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FOR THE
NORTHWEST ATLANTIC FISHERIES



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1972

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Preface

This issue of the Sampling Yearbook contains sampling data for 1972 contributed by 12 of the 16 member countries of ICNAF - Bulgaria, Canada, Denmark, France, Federal Republic of Germany, Japan, Poland, Portugal, Spain, Union of Soviet Socialist Republics, United Kingdom and United States.

The presentation of the data is changed somewhat from that of previous issues, in accordance with recommendations of the Statistics and Sampling Subcommittee at the 1973 Annual Meeting of ICNAF (*Redbook* 1973, Part I, page 113). Much of the reorganization involved (a) the standardization of the format used to present length and age frequencies, (b) the inclusion of selected nominal catch data by month, area and country for the major species, as an aid in converting "per mille" length and age frequencies to their respective compositions of landings or catches, and (c) the accumulation of all age-length keys in an appendix.

It was initially intended to present the length and age frequencies in terms of the numbers and weight caught and/or landed, but "mean weight of fish sampled" was not reported by several countries and the necessary conversion factors could not be obtained for some species and stocks. Consequently all length and age frequencies are reported as "per mille".

This issue of the Yearbook contains four parts: Part I contains all available length and age frequencies for 1972, which are based mostly on sampling of commercial fisheries; Part II contains selected nominal catch data for the major species; Part III contains length and age frequencies recently reported for certain species sampled in years prior to 1972; and Part IV contains a listing of research survey length and age data available at the Secretariat but not tabulated in Part I.

The Appendix contains all available age-length keys submitted for 1972 together with keys for certain species sampled in earlier years.

In accordance with previous recommendations of STACRES, countries are requested to submit with their sampling data information on sampling techniques (e.g. type of sampling, method of measuring fish, method of ageing, etc.). A few countries submit an updated account annually, but most countries do not. Summaries of all available information on this matter are presented in "Notes on Sampling Data" which precede Part I.

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

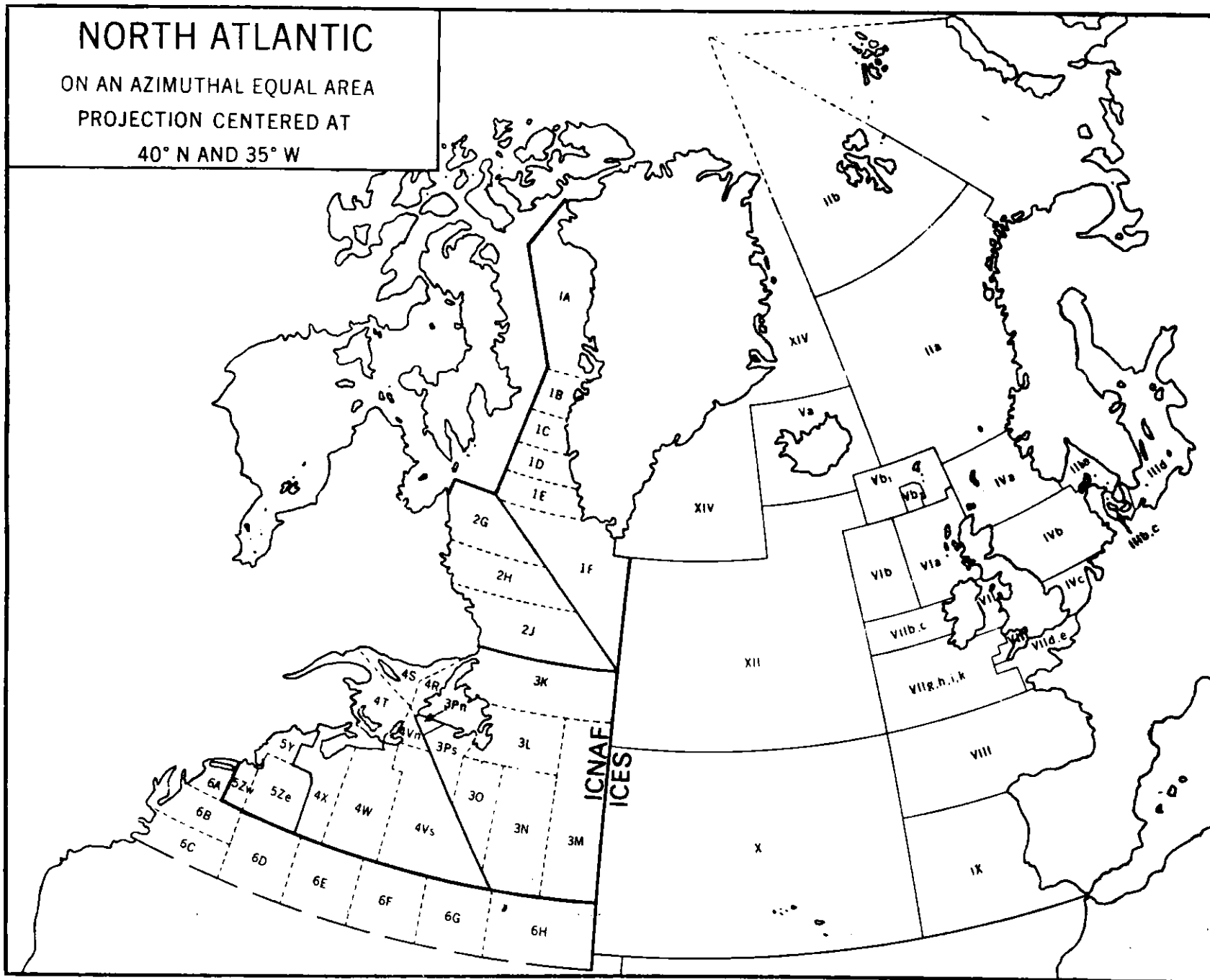
This volume of the Sampling Yearbook was produced in the Secretariat largely through the efforts of Mrs E. R. Cornford and Messrs W.H. Champion, G.M. Moulton and R.A. Myers.

March 1974

V. M. Hodder
Assistant Executive Secretary

NORTH ATLANTIC

ON AN AZIMUTHAL EQUAL AREA
PROJECTION CENTERED AT
40° N AND 35° W



Contents

	<u>Page</u>
Preface.....	iii
Map of North Atlantic showing ICNAF and ICES Areas.....	iv
Notes on Sampling Data, 1972.....	ix
<u>Part I. Length and Age Frequencies, 1972.....</u>	<u>1</u>
Table 1.1 Cod - Canada (MQ) - 4R, 4S.....	2
1.2 " " - 4T.....	3
1.3 " " - 4Vn.....	5
1.4 " " - 4Vs, 4W.....	6
1.5 " " - 4X.....	7
1.6 " " - 5Ze.....	8
Table 2.1 Cod - Canada (N) - 2J.....	9
2.2 " " - 3K.....	10
2.3 " " - 3L.....	11
2.4 " " - 3Ps.....	12
2.5 " " - 3Pn.....	13
2.6 " " - 4R.....	14
Table 3.1 Cod - Denmark (G) - 1B, 1C.....	15
3.2 " " - 1D.....	16
3.3 " " - 1F.....	17
Table 4.1 Cod - Fed.Rep. Germany - 1C, 1D.....	18
4.2 " " - 1E, 1F.....	19
4.3 " " - SE Greenland.....	20
4.4 " " - E Greenland.....	21
Table 5.1 Cod - Poland - 2J, 3K, 3L.....	22
Table 6.1 Cod - Portugal - 1C.....	23
6.2 " " - 3L, 3O, 3Ps.....	24
Table 7.1 Cod - Spain - 3L, 3M, 3N, 3Ps.....	25
7.2 " " - 4R, 4Vn.....	26
Table 8.1 Cod - USSR - 2J.....	27
8.2 " " - 3K, 3M.....	28
Table 9.1 Cod - UK - 1E, 1F.....	29
9.2 " " - 2J.....	30
9.3 " " - 3M.....	31
9.4 " " - 4Vs, 4W.....	32
Table 10.1 Cod - USA - 5Z.....	33
Table 11.1 Haddock - Canada (MQ) - 4W.....	34
11.2 " " - 4X.....	35
11.3 " " - 5Ze.....	37
Table 12.1 Haddock - USA - 5Ze.....	38
Table 13.1 Redfish - Canada (MQ) - 3Ps.....	39
13.2 " " - 4R.....	40
13.3 " " - 4S.....	41
13.4 " " - 4T.....	43
13.5 " " - 4Vn.....	44
13.6 " " - 4Vs.....	45
13.7 " " - 4W, 4X.....	46
Table 14.1 Redfish - Canada (N) - 4R.....	47
14.2 " " - 4S.....	48
Table 15.1 Redfish - Denmark (G) - 1D.....	49
Table 16.1 Redfish - Japan - 4V, 4W, 4X.....	50

Part I. (Cont'd)

Table 17.1	Redfish - Poland - 2J, 3L.....	51
17.2	" " - 3M.....	53
Table 18.1	Redfish - USSR - 2J, 3K.....	54
18.2	" " - 3M.....	55
18.3	" " - 3O.....	56
Table 19.1	Redfish - USA - 4RST.....	57
19.2	" " - 4V.....	59
19.3	" " - 4W.....	60
19.4	" " - 4X.....	63
19.5	" " - 5Y.....	65
19.6	" " - 5Ze.....	67
Table 20.1	Silver hake - Japan - 4W, 4X.....	68
20.2	" " - 5Ze, 6.....	69
Table 21.1	Silver hake - USSR - 4W.....	70
21.2	" " - 4X.....	71
21.3	" " - 5Ze.....	72
21.4	" " - 5Zw.....	73
21.5	" " - 6.....	74
Table 22.1	Silver hake - USA - 5Y.....	75
22.2	" " - 5Ze.....	76
Table 23.1	Red hake - USSR - 5Ze.....	77
23.2	" " - 5Zw.....	78
23.3	" " - 6.....	79
Table 24.1	Red hake - USA - 5Zw.....	80
24.2	" " - 6.....	81
Table 25.1	Red hake - Japan - 6.....	82
Table 26.1	Pollock - Canada (MQ) - 4X.....	83
Table 27.1	Pollock - USA - 5Y, 5Ze.....	84
Table 28.1	American plaice - Canada (MQ) - 3L, 3N, 3O.....	85
28.2	" " - 3Ps.....	86
28.3	" " - 4T.....	87
28.4	" " - 4Vs.....	88
Table 29.1	American plaice - Canada (N) - 3L.....	89
Table 30.1	American plaice - Denmark (G) - 1C, 1D.....	90
Table 31.1	American plaice - Poland - 3K, 3L.....	91
Table 32.1	Witch - Canada (MQ) - 3L, 3Ps.....	92
32.2	" " - 4Vs.....	93
32.3	" " - 4W.....	94
Table 33.1	Witch - Canada (N) - 3L, 3O, 3Ps.....	95
Table 34.1	Witch - Poland - 3K.....	96
Table 35.1	Yellowtail - Canada (MQ) - 3L, 3N, 3O.....	97
35.2	" " - 4Vs.....	98
Table 36.1	Yellowtail - Canada (N) - 3L, 3N.....	99
Table 37.1	Yellowtail - Japan - 4V.....	100
Table 38.1	Yellowtail - USA - 5Z (E of 69°).....	101
38.2	" " - 5Z (W of 69°).....	104
Table 39.1	Greenland halibut - Denmark (G) - 1D, 1E.....	107
Table 40.1	Greenland halibut - Poland - 3K.....	108
Table 41.1	Argentine - Japan - 4V, 4X, 5Ze.....	109
Table 42.1	Cusk - Canada (MQ) - 4X.....	110

Part I. (Cont'd)

Table 43.1	White hake - Canada (MQ) - 30, 3Ps, 4X.....	111
Table 44.1	Herring - Canada (MQ) - 3P, 4R.....	112
44.2	" " - 4T.....	113
44.3	" " - 4Vn.....	114
44.4	" " - 4W(a).....	115
44.5	" " - 4X(a).....	116
44.6	" " - 4X(b).....	118
44.7	" " - 5Y.....	120
Table 45.1	Herring - Canada (N) - 3L (St. Mary's Bay).....	121
45.2	" " - 3P (Placentia Bay).....	122
45.3	" " - 3P (Fortune Bay).....	123
45.4	" " - 3P (SW Nfld).....	124
45.5	" " - 3P (SW Nfld), 4R (St. Georges Bay).....	125
Table 46.1	Herring - Fed.Rep. Germany - 5Y, 5Z.....	126
Table 47.1	Herring - Japan - 4V, 5Ze, 6A.....	127
Table 48.1	Herring - Poland - 5Z, 6.....	128
Table 49.1	Herring - USSR - 4Vs, 4X.....	129
49.2	" " - 4W.....	130
49.3	" " - 5Z, 6.....	131
Table 50.1	Herring - USA - 5Y (north).....	132
50.2	" " - 5Y (south).....	133
Table 51.1	Mackerel - Bulgaria - 5Z, 6.....	134
Table 52.1	Mackerel - Japan - 5Ze.....	135
Table 53.1	Mackerel - Poland - 5Z, 6.....	136
Table 54.1	Mackerel - USSR - 5Z.....	137
54.2	" " - 6.....	138
Table 55.1	Butterfish - Japan - 5Z, 6.....	139
Table 56.1	Squids - Japan - 5Z.....	140
56.2	" " - 6.....	141
Table 57	Listing of available data for sea scallops in SA 5 and 6.....	142
<u>Part II. Selected Nominal Catches for 1972.....</u>		143
Table 1	Nominal catches of <u>cod</u> by country, area, gear and month.....	144
Table 2	Nominal catches of <u>haddock</u> by country, area, gear and month.....	147
Table 3	Nominal catches of <u>redfish</u> by country, area, gear and month.....	147
Table 4	Nominal catches of <u>silver hake</u> by country, area, gear and month.....	148
Table 5	Nominal catches of <u>red hake</u> by country, area, gear and month.....	149
Table 6	Nominal catches of <u>pollock</u> by country, area, gear and month.....	149
Table 7	Nominal catches of <u>witch</u> by country, area, gear and month.....	149
Table 8	Nominal catches of <u>American plaice</u> by country, area, gear and month.....	150
Table 9	Nominal catches of <u>yellowtail</u> by country, area, gear and month.....	150
Table 10	Nominal catches of <u>Greenland halibut</u> by country, area, gear and month.....	151
Table 11	Nominal catches of <u>argentine</u> by country, area, gear and month.....	151
Table 12	Nominal catches of <u>roundnose grenadier</u> by country, area, gear and month.....	151
Table 13	Nominal catches of <u>herring</u> by country, area, gear and month.....	152

Part II. (Cont'd)

Table 14	Nominal catches of <u>mackerel</u> by country, area, gear and month.....	153
Table 15	Nominal catches of <u>squids</u> by country, area, gear and month.....	153

Part III. Sampling Data for Previous Years..... 155

Table 1	Cod 1971 - Poland - 2H, 2d, 3K.....	156
Table 2	Redfish 1969 - USSR - 4V, 4W, 5Ze.....	157
Table 3	Redfish 1970 - USSR - 4V, 4W.....	158
Table 4	Redfish 1970 - USSR - 4X, 5Ze.....	159
Table 5	Redfish 1971 - USSR - 4V, 4W, 5Ze.....	160
Table 6	Pollock 1970 - USSR - 4X.....	161
Table 7	Witch 1970 - USSR - 4W.....	162
Table 8	Herring 1970 - Poland - 4W, 4X.....	163
Table 9	Herring 1970 - Poland - 5Zw, 6A.....	164
Table 10	Herring 1971 - USA - 5Y (north).....	165
Table 11	Mackerel 1969 - Bulgaria - 6B.....	166
Table 12	Mackerel 1970 - Bulgaria - 6B.....	167
Table 13	Mackerel 1971 - Bulgaria - 5Z, 6.....	169
Table 14	Mackerel 1968 - USSR - 5Z.....	169
Table 15	Mackerel 1969 - USSR - 5Z.....	170
Table 16	Mackerel 1970 - USSR - 5Z.....	171
Table 17	Mackerel 1970 - USSR - 6.....	172
Table 18	Mackerel 1971 - USSR - 5Z.....	173
Table 19	Mackerel 1972 - USSR - 6.....	174

Part IV. Listing of Research Survey Data..... 175Appendix. Age-Length Keys..... 179

1972	Cod.....	181
	Haddock.....	212
	Silver hake.....	216
	Red hake.....	220
	Pollock.....	224
	American plaice.....	225
	Witch.....	228
	Yellowtail.....	229
	Herring.....	231
	Mackerel.....	244
1971	Cod.....	250
	Herring.....	251
	Mackerel.....	252
1970	Herring.....	255
	Mackerel.....	256
1969	Mackerel.....	259
1968	Mackerel.....	260

NOTES ON SAMPLING DATA, 1972

The following notes on sampling data, contributed by the reporting countries, contain information relating to the methods of collection and presentation of the length and age data on the sampling forms. Notes on the presentation of biostatistical data in this issue of the Yearbook are given in the text at the beginning of each Part.

BULGARIA

Reported by: L. Ivanov

Mackerel length and age data were submitted for 1972 (and also for 1969-71). Length measurements were made of fork lengths to the nearest millimetre and grouped into 1-cm intervals, i.e. the length group 30 cm includes lengths in the range 30.0-30.9 cm. Mean lengths, as calculated from the length frequencies, are adjusted upward by 0.5 cm. Ages were determined from otoliths.

CANADA (Maritimes and Quebec)

Reported by: R.G. Halliday, D.N. Fitzgerald, D.S. Miller

Commercial landings in the provinces of New Brunswick, Nova Scotia, Prince Edward Island and Quebec are sampled by staff of the Biological Station, St. Andrews, N.B., in cooperation with the Conservation and Protection Branch and Fisheries Information Branch, all of which are agencies of the Fisheries and Marine Service, Environment Canada.

Landings of cod and haddock are normally culled by market category. Cod are divided into large (steak) and medium (market) categories at about 10 pounds fresh gutted weight. Small (scrod) cod and haddock are mainly less than 2½ 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 the trip landing. When the final weightout is available, the length frequency of the landing 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.

Fork length measurements to the nearest centimetre are recorded for groundfish. Fork length is also recorded for mackerel but to the ½ cm below. For herring, total length to the tip of the longest caudal fin ray, when the tailfin is drawn in line with the body, i.e. greatest overall total length, is measured to the ½ cm below. For both herring and mackerel, length frequencies are combined to the centimetre below for reporting purposes, i.e. the 10-cm mark includes fish 10.0-10.9 cm. Mean lengths reported for herring and mackerel are adjusted upward by 0.5 cm.

Mesh sizes indicated are the manufacturers' specifications and hence are approximations to the actual mesh sizes. Hook size is given by number, No. 6/0 being the smallest used commercially and No. 14 being the largest hook used on longliners in Quebec.

All available age data are reported for 1972. Although occasional samples of cusk and white hake otoliths are collected, these are not aged on a routine basis. Ageing material is not collected for redfish. Length and age data are reported in the form of age-length tables. When age data are inadequate to apply to the corresponding length frequencies, age-length keys and length frequencies are reported separately.

CANADA (Newfoundland)A. Groundfish

Reported by: A.T. Pinhorn, R. Wells, T.K. Pitt

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 length 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 landings after discard indicate that some of the catch was thrown away at sea prior to landings, whereas samples of landings before discard

indicate that no fish was thrown away before landing. The sample frequencies are converted to numbers per mille, but are otherwise unadjusted, except for the usual grouping into 3-cm and 2-cm length groups for certain species.

The age-length keys, used to calculate the monthly age frequencies from length frequencies, usually represent composite quarterly stratified otolith samples. However, for various inshore gears (i.e. long-line, handline, codtrap, gillnets) during the peak summer fishery, the age-length keys are derived from composite stratified samples of all gears sampled.

The various inshore gears used in coastal waters are operated on boats less than 50 GRT. All otter trawl samples pertain to offshore fisheries.

Length and age data are reported in 1972 for cod, American plaice and yellowtail, and length data only for redfish and witch. The following table lists other 1972 commercial sampling data not submitted for inclusion in this Yearbook:

Species	Div.	Gear	Month	No. of lengths	No. of otoliths
Redfish	4R	OT, MWT	Jul	Reported	271
		MWT	Nov	Reported	104
		MWT	Dec	Reported	129
	4S	MWT	Jul	Reported	214
MWT		Dec	Reported	55	
Witch	3K	GN	Jul	1968	205
	3L	OT	Sep	Reported	101
	3O	OT	Feb	Reported	96
	3Ps	OT	Nov	Reported	50

B. Herring

Reported by: G.H. Winters, R. Chaulk

Length and age frequencies for 1972 are based on sampling of commercial catches from inshore waters using purse seines and bar seines.

Measurements are total lengths tabulated to the half centimetre below, e.g. all fish whose actual total lengths fall within the range of 30.0 to 30.9 cm are recorded as 30 cm. Mean lengths are calculated directly from length frequencies.

Ages were determined from otolith readings and refer to age-groups as recommended by the Herring Working Group (Summ.Doc. 74/8), i.e. year-class equals sampling year minus age-group.

In Subdiv. 3Ps and also in Div. 4R there are two or more distinct herring stocks, and consequently the length and age compositions are reported by stock area. Also the major Newfoundland herring fisheries occur at a time when catches consist of a mixture of both spring-type and autumn-type spawners. Thus the sampling data is reported by spawning type: SS = spring spawners; AS = autumn spawners.

DENMARK (Faroes)

No sampling data reported.

DENMARK (Greenland)

Reported by: Inge Meldal

The sampling data submitted did not contain notes on methods used. However, as noted in previous issues of the Yearbook, length measurements are made of total length (end of tail lobes) and are reported to the centimetre below. The following table lists data not reported in detail:

Div.	Gear	Month	Number measured
<u>Capelin (<i>Mallotus villosus</i>)</u>			
1D	LN	Jun	300
	HS	Jun	600
	ST	Jun	3
	ST	Jul	75
1F	HS	Jun	300
<u>Queen crab (<i>Chionecetes opilio</i>)</u>			
1D	ST	Apr	20
		May	133
	CT	Jun	606
		Jul	382
		Aug	302
		Oct	64
		Nov	29

Div.	Gear	Month	No. of samples
<u>Shrimp (<i>Pandalis borealis</i>)</u>			
1C	ST	Apr	1
		Jun	1
1D	ST	Apr	1
		May	2
		Jul	1
1E	ST	Jun	1

LN = landing net
ST = shrimp trawl (18 mm mesh)
HS = hand seine
CT = crab trap (Canadian design)

FRANCE (St. Pierre and Miquelon)

Reported by: J. Morice

No commercial sampling data were submitted for 1972. However, a substantial quantity of length and age data from research vessel cruises in Subareas 3 and 4 were reported for cod, redfish, silver hake, American plaice, witch, yellowtail and herring. A complete listing of the numbers of measurements and ages by species, division and month is given in Part IV of this issue.

FRANCE (Metropolitan)

No sampling data reported.

FEDERAL REPUBLIC OF GERMANY

Reported by: A. Meyer, K. Schubert, J. Messtorff

Commercial sampling data were reported for cod in Subarea 1 and herring in Subarea 5. There was no commercial sampling of the cod fishery in Subareas 2 and 3, but a substantial quantity of length and age composition data, obtained on the groundfish survey by R/V *Anton Dohrn* in November 1972, were submitted, and these are listed in Part IV of this Yearbook; the species sampled were cod, redfish, Greenland halibut, *Gadus scida*, and roundnose grenadier.

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

ICELAND

No sampling data reported.

ITALY

No sampling data reported.

JAPAN

Reported by: I. Ikeda

Samples were collected from commercial catches and measured on the deck of the trawlers before discards.

Length measurements are made of the fork length to the nearest centimetre for fish with a forked caudal fin and the total length for others. For squid the mantle length is measured.

NORWAY

No sampling data reported.

POLAND

Reported by: J. Popiel, E. Stanek, J. Netzel, B. Draganik,
J. Janesz, A. Kosior, S. Ueinski

The sampling data submitted did not contain notes on the methods used. However, as noted in previous issues of the Yearbook, length measurements are made of total length to the nearest centimetre. The measuring board is offset 0.5 cm to permit measuring to the nearest centimetre.

PORTUGAL

Reported by: R. Monteiro

No notes on sampling methods were submitted with the 1972 data on cod. However, as noted in previous issues of the Yearbook, length measurements are made of total length and recorded to the nearest centimetre.

ROMANIA

No sampling data reported.

SPAIN

Reported by: M.G. Larraneta, J. Rucabado

No notes on sampling methods were submitted with the 1972 data on cod. However, as noted in previous issues of the Yearbook, length measurements are made of the total length (end of tail lobes) and are recorded to the centimetre below.

UNION OF SOVIET SOCIALIST REPUBLICS

Reported by: K.G. Konstantinov, A.S. Noskov, V.A. Richter,
V.N. Efanov, R.P. Volkova, V.I. Isakov

No notes on sampling methods were submitted with the 1972 data. However, as noted in previous issues of the Yearbook, length measurements are made of total length and recorded to the nearest centimetre.

UNITED KINGDOM

Reported by: D.J. Garrod, C.L. Whiting

Length measurements are made of the total length to the centimetre below and are grouped into 3-cm groups in the cod length compositions.

Ages relate to the age-groups within the calendar year, and the year-class designated is the difference between the calendar year of sampling and the age.

Samples designated as landings are of head-on gutted cod sampled after the vessels returned to port. Samples designated as catches are of round cod sampled on board the vessel during the voyage and may include fish of a size which would be discarded before storage on board.

Stratification is used in the sampling of fish for otoliths from commercial landings and catches.

UNITED STATES

Reported by: V. Anthony, G. Waring

No notes on sampling methods were submitted with the 1972 data. However, as noted in previous issues of the Yearbook, length measurements are made of the fork length to the nearest centimetre for cod and haddock and to the nearest millimetre for redfish and herring. For scale and otolith samples, measurements are made to the nearest millimetre.

PART I

Length and Age Frequencies for 1972

This Section contains tables of length and age frequencies derived largely from the sampling of commercial fisheries in 1972. Data were submitted by 11 of the 16 member countries of ICNAF, namely Bulgaria, Canada, Denmark, Federal Republic of Germany, Japan, Poland, Portugal, Spain, Union of Soviet Socialist Republics, United Kingdom, and the United States of America. In addition, France submitted a substantial quantity of survey data, collected by a research vessel operating from St. Pierre and Miquelon. These research vessel data, together with similar data by other countries, are not tabulated in this section but are listed in Part IV of this Yearbook.

The tables in this issue differ somewhat in format from those in previous Yearbooks, in accordance with a recommendation of the Statistics and Sampling Subcommittee at the 1973 Annual Meeting (Redbook 1973, Part I, page 113). The most significant changes involve the presentation of both the length and age frequencies in columnar format and the transfer of the age-length keys to an Appendix at the back of the Yearbook.

It was initially planned to present the length and age frequencies in terms of numbers caught. However, reliable mean weight data were often not reported by several countries and thus the necessary conversion factors were not available. Consequently, the length and age frequencies are given in "per mille" as in previous issues. The age frequencies, where presented, are based on the standard application of quarterly age-length keys to the appropriate monthly length frequencies.

All available information on the monthly length frequencies (i.e. mean length, mean weight, etc.) are listed below each frequency. Also given on the line labelled "W_c(tons)" are the appropriate nominal catches, as reported in Statistical Bulletin, Vol. 22 for the year 1972. More complete listings of monthly nominal catches for all areas, in which significant fisheries occurred, whether or not sampling data were reported, are given in Part II of this Yearbook. The line labelled "N_c(000)" is blank in all tables of this issue.

Sampling data are presented in the following tables for: cod, haddock, redfish, silver hake, red hake, pollock, American plaice, witch, yellowtail, Greenland halibut, argentine, cusk, white hake, herring, mackerel, butterfish and squid. Certain species, e.g. redfish and the flounders, are usually reported by sex. Cod, pollock and white hake are given by 3-cm length groups; haddock, silver hake, red hake, and flounders by 2-cm length groups; and other species by 1-cm groups.

TABLE 1.1. LENGTH AND AGE FREQUENCIES - COD 1972 - Canada (MQ) - 4R, 4S

COUNTRY: CANADA (MQ)			GEAR: Otter trawl, longlines			
Commercial landings						
Mid-point of length group (cm)	4R (OT)			4S (LL)	4S(OT)	
	May			Aug	Oct	
LENGTH GROUP	40		4		30	
	43		35		30	45
	46		101		30	110
	49		233		75	110
	52		146		80	125
	55		119		110	110
	58		95		100	155
	61		75		100	110
	64		66		155	95
	67		42		80	60
	70		27		65	45
	73		24		15	25
	76		6		35	-
	79		7		30	10
	82		3		10	
	85		2		10	
	88		2		10	
	91		3		-	
	94		2		-	
	97		4		5	
100		1		5		
103		2		5		
106		-		10		
109		1				
124				5		
133				5		
			1000	1000	1000	
N _c (000)						
W _c (tons)			2219	127	609	
Samples (L)			1	1	1	
No. Meas.			285	200	200	
L _c (cm)			55.5	62.0	56.5	
W _c (gm)			1.79	2.71	1.83	
Mesh (mm)			114	*1	114	
Depth (m)			128-210	155-165	228-274	
AGE GROUP	68	4	24	30	82	
	67	5	50	79	152	
	66	6	308	85	183	
	65	7	266	124	245	
	64	8	225	259	227	
	63	9	86	164	111	
	62	10	22	96		
	61	11	12	85		
	60	12	3	24		
	59	13	-	2		
	58	14	-	24		
	57	15	1	14		
		15+	3	14		
	Total			1000	1000	1000
Samples (A)			1	1	1	
No. Aged			50	50	34	

¹ Hook size # 15

TABLE 1.2. LENGTH AND AGE FREQUENCIES - COD 1972 - Canada (MQ) - 4T

COUNTRY: CANADA (MQ)		GEAR: Otter trawl										
Commercial landings												
Mid-point of length group (cm)	COMPOSITION OF CATCHES/LANDINGS											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
LENGTH GROUP	25	-	-	-	3	-	-	-	-	-	-	-
	28	3	-	-	4	-	-	-	-	-	-	-
	31	18	-	25	18	-	-	-	-	-	-	-
	34	90	-	76	49	-	-	-	-	18	-	-
	37	192	-	263	90	-	-	-	2	52	-	-
	40	200	-	203	72	2	-	25	150	92	-	-
	43	120	-	96	66	78	-	136	195	191	-	-
	46	134	-	111	122	168	-	170	154	179	-	-
	49	109	-	74	161	200	-	237	125	157	-	-
	52	46	-	41	137	168	-	127	95	90	-	-
	55	44	-	31	85	131	-	114	61	103	-	-
	58	12	-	21	63	87	-	76	70	52	-	-
	61	16	-	18	35	65	-	51	50	27	-	-
	64	7	-	6	20	35	-	10	32	16	-	-
	67	3	-	10	15	22	-	25	23	11	-	-
	70	3	-	1	20	7	-	-	14	2	-	-
	73	1	-	5	9	2	-	-	14	2	-	-
	76	-	-	3	6	7	-	-	2	2	-	-
	79	1	-	1	6	11	-	-	2	-	-	-
	82	-	-	-	8	9	-	4	-	-	-	-
85	-	-	1	5	4	-	4	2	2	-	-	
88	1	-	5	2	2	-	4	2	2	-	-	
91	-	-	1	1	-	-	9	-	-	-	-	
94	-	-	1	1	-	-	-	5	-	-	-	
97	-	-	4	1	2	-	4	2	-	-	-	
100	-	-	3	-	-	-	-	-	2	-	-	
103	-	-	-	-	-	-	-	-	-	-	-	
106	-	-	-	1	-	-	-	-	-	-	-	
---	-	-	-	-	-	-	-	-	-	-	-	
124	-	-	-	-	-	-	4	-	-	-	-	
		1000		1000	1000	1000		1000	1000	1000		
N _c (000)												
W _c (tons)		1847		1207	5995	4920		956	848	704		
Samples (L)		3		3	3	2		1	2	2		
No. Meas.		962		800	877	459		236	441	446		
L _c (cm)		43.1		43.4	48.9	53.1		51.7	50.0	48.2		
W _c (gm)		0.81		0.92	1.28	1.54		1.49	1.33	1.15		
Mesh (mm)		114		114	114	114		114	114	114		
Depth (m)		82-229		68-221	91-220	64-101		64-73	55-91	55-80		
AGE GROUP	70	2	-	-	2	-	-	-	-	-	-	-
	69	3	19	-	55	42	-	-	-	72	-	-
	68	4	418	-	525	208	27	116	282	414	-	-
	67	5	292	-	184	196	245	349	279	267	-	-
	66	6	110	-	74	167	225	198	141	146	-	-
	65	7	109	-	97	227	310	171	155	65	-	-
	64	8	48	-	40	114	145	112	102	15	-	-
	63	9	3	-	9	24	28	26	19	10	-	-
	62	10	1	-	8	11	12	6	9	3	-	-
	61	11	-	-	2	3	3	12	7	2	-	-
	60	12	-	-	2	1	2	4	3	2	-	-
	59	13	-	-	2	1	1	1	-	1	-	-
	58	14	-	-	-	1	1	1	-	1	-	-
57	15	-	-	-	2	1	-	-	2	-	-	
15+	15+	-	-	2	1	-	4	3	-	-	-	
		1000		1000	1000	1000		1000	1000	1000		
Total		1000		1000	1000	1000		1000	1000	1000		
Samples (A)			3		8			3			2	
No. Aged			134		326			106			65	

TABLE 1.2. LENGTH AND AGE FREQUENCIES - COD 1972 - Canada (MQ) - 4T (cont'd)

COUNTRY: CANADA (MQ)			GEAR: Longlines, gillnets, Danish seines				
Commercial landings							
Mid-point of length group (cm)	LL		GN	DS			
	Aug		Aug	Jul	Aug	Sep	Nov
LENGTH GROUP	37	10		-	2	-	5
	40	20		19	57	111	100
	43	50	5	182	198	180	148
	46	80	2	215	201	176	187
	49	120	5	215	187	127	168
	52	90	8	163	117	98	162
	55	100	2	51	88	82	104
	58	45	10	61	76	66	48
	61	70	8	42	34	41	24
	64	40	32	14	14	66	24
	67	35	12	9	10	20	5
	70	35	38	-	10	29	5
	73	30	11	-	-	-	5
	76	30	50	5	2	4	5
	79	55	100	9	-	-	5
	82	40	120	5	-	-	-
	85	15	105	5	-	-	5
	88	10	95	5	-	-	-
	91	25	100	-	2	-	-
	94	50	102	-	-	-	-
97	20	86	-	-	-	-	
100	5	55	-	-	-	-	
103	20	8	-	2	-	-	
106	-	18	-	-	-	-	
109	-	5	-	-	-	-	
112	-	10	-	-	-	-	
115	-	2	-	-	-	-	
118	5	5	-	-	-	-	
121	-	-	-	-	-	-	
124	-	2	-	-	-	-	
127	-	2	-	-	-	-	
128	-	-	-	-	-	-	
		1000	1000	1000	1000	1000	1000
N _c (000)							
W _c (tons)		249	2143	407	421	338	92
Samples (L)		1	1	1	3	1	1
No. Meas.		200	400	214	581	244	209
L (cm)		63.6	85.8	50.2	49.5	50.3	49.5
W (gm)		3.13	6.73	1.30	1.22	1.31	1.23
Mesh (mm)		*1	-	114	114	114	114
Depth (m)		32-91	37-91	57-68	24-70	46-59	27-38
AGE GROUP	69	3	-	1	4	7	52
	68	4	5	220	258	283	276
	67	5	12	371	332	274	188
	66	6	15	211	206	173	303
	65	7	51	131	148	168	136
	64	8	244	42	42	72	40
	63	9	240	8	5	16	-
	62	10	164	-	3	-	-
	61	11	163	11	2	7	-
	60	12	41	5	-	-	5
		28					
		5					
		24					
		8					
Total			1000	1000	1000	1000	1000
Samples (A)			1		5		1
No. Aged			90		132		31

¹ Hook size # 15

TABLE 1.3. LENGTH AND AGE FREQUENCIES - COD 1972 - Canada (MQ) - 4Vn

COUNTRY: CANADA (MQ)			GEAR: Otter trawl, longlines				
Commercial landings							
Mid-point of length group (cm)	OT			LL			
	Feb	Mar	Sep		Sep		
31	-	4	-		-		
34	-	4	-		-		
37	-	15	10		33		
40	-	44	60		73		
43	54	70	206		83		
46	217	74	256		76		
49	259	85	176		155		
52	220	107	156		129		
55	125	129	66		182		
58	56	125	32		70		
61	31	77	19		76		
64	10	103	6		40		
67	9	30	8		33		
70	9	37	3		16		
73	2	26	-		7		
76	2	22	2		10		
79	1	15	-		-		
82	1	18	-		-		
85	1	7	-		-		
88	1	-	-		7		
91	1	4	-		3		
94	1	4	-		-		
97					1		
100					3		
103					2		
106					1		
	1000	1000	1000		1000		
N _c (000)							
W _c (tons)	1310	416	627		378		
Samples (L)					1		
No. Meas.	327	271	377		324		
W _L (cm)	51.1	56.5	48.1		53.0		
W (gm)	1.32	1.94	1.09		1.59		
Mesh (mm)	114	114	114		*		
Depth (m)	73-165	302	101-146		44-73		
AGE GROUP	69	3	-	12	-	-	
	68	4	235	187	863	330	
	67	5	356	181	44	19	
	66	6	185	174	54	295	
	65	7	131	184	32	217	
	64	8	61	142	5	102	
	63	9	17	68	2	1	
	62	10	12	42	-	10	
	61	11	2	6	-	24	
	60	12	-	-	-	1	
	59	13	-	-	-		
	58	14	-	-	-		
	57	15	1	4	-		
	Total	1000	1000	1000		1000	
	Samples (A)		2			1	
No. Aged		95		35		54	

¹ Hook size # 16

TABLE 1.4. LENGTH AND AGE FREQUENCIES - COD 1972 - Canada (MQ) - 4Vs, 4W

COUNTRY: CANADA (MQ)			GEAR: Otter trawl						
Commercial landings									
Mid-point of length group (cm)	4Vs				4W				
	Jan	Feb	Mar	Apr	Jan	Nov	Dec		
37	-	-	-	-	-	-	-	5	
40	21	5	11	3	12	3	75		
43	88	35	58	53	48	187	208		
46	161	41	30	57	76	236	178		
49	238	76	58	47	80	131	95		
52	238	109	67	104	143	125	108		
55	109	146	162	138	139	96	96		
58	57	164	188	158	144	97	87		
61	31	128	158	191	116	60	71		
64	10	98	80	75	100	26	30		
67	26	38	57	37	54	11	20		
70	10	24	32	43	35	19	12		
73	-	28	22	25	11	-	7		
76	-	38	22	6	18	8	2		
79	1	20	20	12	3	-	2		
82	3	10	9	3	3	1	2		
85	1	5	11	6	4	-	1		
88	-	15	5	4	2	-	-		
91	1	-	4	3	5	-	1		
94	-	10	3	11	-	-	-		
97	1	5	1	14	3	-	-		
100	1	-	-	3	2	-	-		
103	1	5	-	3	1	-	-		
106	-	-	1	2	-	-	-		
109	-	-	1	2	1	-	-		
112	-	-	-	-	-	-	-		
115	1	-	-	-	-	-	-		
118	1	-	-	-	-	-	-		
		1000	1000	1000	1000	1000	1000	1000	
N _c (000)									
W _c (tons)		800	1323	3269	964	687	358	1507	
Samples (L)		1	1	2	1	2	1	3	
No. Meas.		207	281	349	222	682	306	962	
L (cm)		51.4	59.8	59.2	59.4	57.3	51.0	50.5	
W (gm)		1.39	2.29	2.18	2.26	1.95	1.34	1.32	
Mesh (mm)		114	114	114	114	114	114	114	
Depth (m)		137-274	146-256	165-274	46-201	48-256	46-82	37-82	
AGE GROUP	70	2	-	-	-	-	192	227	
	69	3	-	-	-	-	262	243	
	68	4	177	54	67	95	325	307	
	67	5	222	96	86	135	102	95	
	66	6	367	294	288	556	70	76	
	65	7	156	224	237	129	34	35	
	64	8	49	186	193	22	15	16	
	63	9	11	62	61	28	-	1	
	62	10	12	64	55	20	-	-	
	61	11	2	10	7	3	-	-	
	60	12	1	2	2	2	-	-	
	59	13	1	4	4	10	-	-	
	58	14	-	2	-	-	-	-	
	57	15	2	2	-	-	-	-	
	Total		1000	1000	1000	1000	1000	1000	1000
Samples (A)						2	4		
No. Aged						98	169		

TABLE 1.5. LENGTH AND AGE FREQUENCIES - COD 1972 - Canada (MQ) - 4X

COUNTRY: CANADA (MQ)		GEAR: Otter trawl, longlines									
Commercial landings											
Mid-point of length group (cm)	OT									LL	
	Jan	Feb	Jun	Jul	Aug	Sep	Oct	Nov	Aug	Oct	
31	6	-	2	-	11	-	-	-	-	-	
34	19	-	2	-	24	1	7	-	-	-	
37	28	4	8	8	43	1	26	-	-	9	
40	38	14	10	23	46	8	24	-	-	8	
43	71	50	42	16	29	28	69	-	-	27	
46	141	100	54	46	61	42	70	4	-	25	
49	119	183	114	54	105	57	74	13	-	58	
52	109	207	178	73	121	82	73	27	-	49	
55	108	159	213	137	101	149	82	35	-	82	
58	70	67	176	215	81	167	89	84	-	98	
61	89	34	63	188	96	251	160	102	-	77	
64	39	21	22	108	70	137	141	137	-	148	
67	39	17	34	47	77	42	91	182	-	131	
70	28	6	26	20	45	18	30	128	-	165	
73	15	21	19	12	25	12	19	93	-	132	
76	14	18	15	8	10	2	17	35	-	41	
79	12	25	15	5	16	-	3	35	-	27	
82	12	29	-	7	14	-	3	53	-	-	
85	9	14	4	11	6	-	3	31	-	27	
88	6	14	1	6	6	1	3	27	-	34	
91	10	13	1	5	4	1	8	5	-	16	
94	8	1	-	3	5	-	3	9	-	8	
97	2	1	-	2	1	-	2	-	-	3	
100	1	1	-	3	-	-	-	-	-	8	
103	5	1	-	1	2	1	-	-	-	5	
106	-	-	1	2	1	-	1	-	-	3	
109	-	-	-	-	-	-	1	-	-	8	
112	1	-	-	-	-	-	-	-	-	-	
115	-	-	-	-	-	-	-	-	-	5	
118	-	-	-	-	-	-	-	-	-	-	
121	-	-	-	-	-	-	-	-	-	3	
124	1	-	-	-	-	-	-	-	-	3	
>125	-	-	-	-	-	-	-	-	-	-	
	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
N _c (000)	618	422	1316	1108	698	606	520	303	1206	840	
W _c (tons)	2	2	1	2	2	1	2	1	1	1	
Samples (L)	577	625	331	505	406	271	502	226	131	233	
No. Meas.	55.0	56.1	55.6	58.9	56.2	58.0	57.7	68.0	61.5	64.0	
W (gm)	1.89	1.95	1.78	2.13	1.96	1.97	2.06	3.24	2.55	2.98	
Mesh (mm)	114	114	114	114	114	114	114	114	*1	*2	
Depth (m)	91-165	55-155	137-165	101-137	87-137	119-128	55-155	137-174	106	91-101	
70	2	36	19	17	39	131	28	139	-	8	
69	3	245	240	354	397	392	413	390	212	86	
68	4	259	279	459	463	337	503	376	467	175	
67	5	263	285	141	38	67	33	66	194	204	
66	6	87	63	14	34	43	19	19	83	347	
65	7	60	55	11	11	18	2	3	33	177	
64	8	18	28	2	10	6	1	3	11	19	
63	9	18	21	1	7	5	1	3	-	19	
62	10	10	9	-	1	1	-	-	-	28	
61	11	1	-	-	-	-	-	-	-	14	
60	12	2	1	1	-	-	-	-	-	15	
59	13	1	-	-	-	-	-	-	-	8	
58	14	-	-	-	-	-	-	-	-	3	
57	15	-	-	-	-	-	-	-	-	-	
15+	-	-	-	-	-	-	-	-	-	5	
Total	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
Samples (A)		4			5			3		1	
No. Aged		189			224			120		44	
										60	

1 Hook size # 16

2 Hook size # 15

TABLE 1.6. LENGTH AND AGE FREQUENCIES - COD 1972 - Canada (MQ) - 5Ze

COUNTRY: CANADA (MQ)			GEAR: Otter trawl, longlines		
Commercial landings					
Mid-point of length group (cm)	OT			LL	
	Feb			Aug	Sep
34	8			6	-
37	16			11	-
40	55			-	-
43	34			-	-
46	17			6	-
49	90			-	-
52	117			12	4
55	97			34	27
58	69			28	31
61	74			34	58
64	40			23	80
67	45			74	85
70	57			58	103
73	28			74	89
76	28			62	108
79	40			68	134
82	11			57	58
85	32			85	40
88	11			57	40
91	15			62	45
94	19			23	18
97	14			51	9
100	34			34	18
103	14			11	9
106	10			23	13
109	-			11	5
112	10			28	-
115	5			11	5
118	-			34	9
121	-			11	4
124	10			6	-
127	-			-	4
130	-			6	4
	1000			1000	1000
N _c (000)					
W _c (tons)	136			399	315
Samples (L)	1			1	1
No. Meas.	279			176	224
L (cm)	64.5			82.2	76.5
W (gm)	3.43			6.41	4.89
Mesh (mm)	114			*1	*1
Depth (m)	82			91-110	238-256
AGE GROUP	70	2	10	17	-
	69	3	219	62	46
	68	4	227	167	279
	67	5	198	187	279
	66	6	111	256	193
	65	7	54	129	123
	64	8	78	65	42
	63	9	69	18	8
	62	10	10	69	16
	61	11	5	7	2
	60	12	-	4	2
	59	13	10	16	9
	58	14	-	3	1
			9		
Total		1000		1000	1000
Samples (A)		1		2	
No. Aged		64		98	

¹ Hook size # 6284

TABLE 2.1. LENGTH AND AGE FREQUENCIES - COD 1972 - Canada (N) - 2J

COUNTRY: Canada (N)		GEAR: Handlines, gillnets, cod trap		
Commercial catches				
Mid-point of length group (cm)	HL		GN	Trap
	Aug		Aug	Jul
LENGTH GROUP	28			1
	31			9
	34		1	57
	37		2	161
	40		9	206
	43		11	164
	46	27	14	115
	49	-	9	78
	52	45	3	63
	55	108	7	47
	58	117	11	41
	61	100	10	24
	64	72	30	14
	67	90	41	8
	70	81	82	6
	73	81	107	3
	76	36	115	1
	79	72	124	-
	82	36	108	1
	85	45	70	1
	88	9	67	
	91	27	49	
	94	9	38	
97	18	26		
100	18	16		
103	-	13		
106	9	13		
109		5		
112		4		
115		1		
118		1		
121		2		
124		2		
	1000	1000	1000	
N_c (000)				
W_c (tons)	115	121	454	
Samples (L)	1	-	-	
No. Meas.	111	1358	2833	
\bar{L} (cm)	68.4	78.6	44.6	
\bar{W} (gm)	3.13	4.70	0.70	
Mesh (mm)	-	175	100	
Depth (m)	5-9	4-22	11-18	
AGE GROUP	69	3	-	5
	68	4	6	229
	67	5	30	457
	66	6	19	187
	65	7	52	75
	64	8	114	19
	63	9	144	11
	62	10	181	6
	61	11	150	8
	60	12	125	1
	59	13	90	2
	58	14	38	
	57	15	14	
56	16	10		
	16+	27		
Total		1000	1000	
Samples (A)		-	-	
No. Aged		347	298	

TABLE 2.2. LENGTH AND AGE FREQUENCIES - COD 1972 - Canada (N) - 3K

COUNTRY: Canada (N)			GEAR: Gillnets, handlines, cod traps			
Commercial catches						
Mid-point of length group (cm)	GN		HL		Trap	
	Jul		Jul	Sep	Jul	Aug
31			-	11	11	-
34	1		-	59	75	3
37	-		16	99	186	18
40	5		44	94	184	88
43	7		101	110	134	116
46	10		153	91	97	137
49	14		94	90	73	139
52	16		127	83	61	115
55	33		117	96	54	93
58	67		133	53	48	86
61	112		88	70	32	81
64	157		49	40	21	56
67	137		36	40	13	35
70	121		23	27	6	17
73	104		10	11	2	7
76	66		9	16	2	7
79	52		-	5	1	1
82	25		-	-	-	1
85	11		-	5	-	-
88	15		-	-	-	-
91	11					
94	8					
97	6					
100	7					
103	5					
106	2					
109	2					
112	1					
115	1					
118	1					
121	1					
124	1					
145	1					
	1000		1000	1000	1000	1000
N _c (000)						
W _c (tons)	3193		140	770	2774	482
Samples (L)	14		2	4	-	-
No. Meas.	1219		308	374	2361	1167
L (cm)	68.5		53.0	50.0	44.8	51.7
W (gm)	3.10		1.42	1.45	(0.91)	1.30
Mesh (mm)	-		-	-	100	100
Depth (m)	11-320		11-37	25-55	18-35	16-26
AGE GROUP	69	3			18	1
	68	4			289	70
	67	5			338	258
	66	6			201	336
	65	7			113	237
	64	8			38	86
	63	9			3	12
Total					1000	1000
Samples (A)						-
No. Aged						350

TABLE 2.3. LENGTH AND AGE FREQUENCIES - COD 1972 - Canada (N) - 3L

COUNTRY: Canada (N)			GEAR: Gillnets, handlines, cod trap, otter trawl						
Commercial landings (inshore)									
Mid-point of length group (cm)	GN		HL	Trap		OT			
	Jun	Jul	Jul	Jun	Jul	May	Sep	Nov	
31	-	1	2	1	1	3	-	1	
34	-	3	22	19	11	8	2	17	
37	-	16	65	80	40	40	6	35	
40	-	27	135	132	95	126	39	49	
43	-	31	160	167	160	191	87	92	
46	1	29	149	135	135	175	83	160	
49	2	35	139	114	102	99	75	172	
52	1	37	112	67	86	64	67	131	
55	1	47	74	50	69	42	73	96	
58	7	45	50	31	47	39	45	56	
61	22	54	37	14	37	38	34	52	
64	34	67	19	11	27	32	60	35	
67	38	76	8	4	14	31	49	17	
70	60	74	12	1	12	15	37	13	
73	95	70	7	1	5	13	37	10	
76	115	68	3	1	4	9	51	6	
79	109	67	4	-	1	10	24	3	
82	98	55	1	-	1	8	39	10	
85	76	43	1	-	1	5	32	11	
88	73	39				5	30	6	
91	48	28				4	18	4	
94	43	22				3	18	1	
97	32	11				4	16	6	
100	27	11				4	20	1	
103	19	8				3	6	1	
106	16	8				5	6	4	
109	23	6				4	10	1	
112	15	5				3	8	2	
115	45	4				5	8	4	
118	-	3				4	12	3	
121	-	4				8	8	1	
124	-	6							
	1000	1000	1000	1000	1000	1000	1000	1000	
N _c (000)									
W _c (tons)	3353	3754	190	11979	12706	715	140	185	
Samples (L)	-	-	-	-	-	-	1	1	
No. Meas.	1614	3422	1332	2393	5633	1898	493	1121	
L (cm)	83.5	70.2	48.0	47.2	50.0	55.3	68.5	56.0	
W (gm)	5.73	3.70	1.09	1.02	1.24	2.02	3.61	2.09	
Mesh (mm)	140-178	140-178		85-250	85-250	114	114	114	
Depth (m)	37-55	11-320	5-24	18-22	6-35	146	64-219	-	
AGE GROUP	69	3	2	15	63	101	44	3	
	68	4	9	81	318	537	325	361	
	67	5	23	77	326	219	292	236	
	66	6	51	138	177	89	199	143	
	65	7	149	123	63	45	67	82	
	64	8	243	183	34	5	50	82	
	63	9	161	129	10	4	16	26	
	62	10	112	78	5	-	5	12	
	61	11	87	54	1	-	1	12	
	60	12	25	33	1	-	1	6	
	59	13	33	24	1			12	
	58	14	16	11				8	
57	15	37	15				8		
	15+	52	39				9		
Total	1000	1000	1000	1000	1000	1000			
Samples (A)	-	-	-	-	-	-	-	-	
No. Aged	223	977	395	122	802	252			

TABLE 2.4. LENGTH AND AGE FREQUENCIES - COD 1972 - Canada (N) - 3Ps

COUNTRY: Canada (N)		GEAR: Longlines, gillnets, cod trap				
Commercial landings						
Mid-point of length group (cm)	LL		GN		Trap	
	Jun	Jul	Jun	Jul	Jun	Jul
31					28	15
34	3				91	48
37	9				144	92
40	22				188	129
43	38				185	165
46	61		-	1	140	133
49	84		1	4	82	114
52	109		2	2	48	93
55	123		3	2	34	65
58	121		9	9	24	57
61	103		30	34	19	44
64	84		75	84	7	20
67	64		164	174	5	13
70	41		193	210	2	6
73	30		182	188	1	2
76	27		130	130	2	3
79	22		78	58	-	-
82	12		47	38	-	1
85	12		25	24		
88	6		15	12		
91	7		8	5		
94	5		7	8		
97	3		10	7		
100	1		7	2		
103	2		4	3		
106	2		3	-		
109	1		1	1		
112	3		1	-		
115	-		1	-		
118	1		-	-		
121	1		1	1		
124+	3					
	1000		1000	1000	1000	1000
N _c (000)						
W _c (tons)	1041		1707	2038	2543	2249
Samples (L)	-		-	-	-	-
No. Meas.	3043		1932	1056	2847	1810
L̄ (cm)	59.7		70.1	69.1	43.3	46.9
W̄ (gm)	2.23		3.30	3.20	0.83	1.03
Mesh (mm)			160-175	160-175	100-250	100-250
Depth (m)	37-110		37-128	37-128	20-27	20-27
70	2				6	3
69	3	10			133	75
68	4	141	1	4	580	461
67	5	279	38	41	199	277
66	6	225	122	130	59	128
65	7	162	433	454	17	43
64	8	77	288	276	4	11
63	9	37	67	58	1	1
62	10	25	22	18	1	1
61	11	17	19	14		
60	12	8	4	2		
59	13	5	2	2		
58	14	4	2	-		
57	15	2	-	-		
56	15+	8	2	1		
Total	1000		1000	1000	1000	1000
Samples (A)	5		10	10	5	5
No. Aged	458		442	457	305	365

TABLE 2.5. LENGTH AND AGE FREQUENCIES - COD 1972 - Canada (N) - 3Pn

COUNTRY: Canada (N)			GEAR: Longlines												
Commercial catches (inshore)															
Mid-point of length group (cm)	COMPOSITION OF CATCHES/LANDINGS														
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
LENGTH GROUP	40			2											
	43			4											
	46			17											
	49			50											
	52			75											
	55			116											
	58			117											
	61			131											
	64			113											
	67			106											
	70			75											
	73			59											
	76			44											
	79			28											
	82			18											
	85			15											
	88			8											
	91			7											
	94			5											
	97			4											
100			1												
103			1												
106			1												
109			2												
112			1												
			1000												
N _c (000)															
W _c (tons)			871												
Samples (L)			-												
No. Meas.			5534												
L _c (cm)			63.6												
W (gm)			2.49												
Mesh (mm)			1												
Depth (m)			100-180												
AGE GROUP	67	5	9												
	66	6	97												
	65	7	206												
	64	8	239												
	63	9	145												
	62	10	77												
	61	11	62												
	60	12	56												
	59	13	15												
	58	14	50												
	57	15	31												
	56	16	5												
		16+	8												
Total			1000												
Samples (A)			-												
No. Aged			331												

¹ Hook size 6/0

TABLE 2.6. LENGTH AND AGE FREQUENCIES - COD 1972 - Canada (N) - 4R

COUNTRY: Canada (N)			GEAR: Longlines, gillnets, cod trap			
Commercial landings						
Mid-point of length group (cm)	LL		GN		Trap	
	Jun		Jun	Jul	Jun	Jul
31					-	3
34	23				12	89
37	62		2	1	74	200
40	42		1	2	115	251
43	23		-	2	129	159
46	42		3	2	124	116
49	23		3	4	153	72
52	68		4	2	156	41
55	55		9	8	73	32
58	65		23	24	69	13
61	82		46	55	28	10
64	85		72	93	21	6
67	72		90	119	19	3
70	91		92	114	9	3
73	75		103	105	6	-
76	52		83	81	4	2
79	39		80	89	3	-
82	33		61	64	1	-
85	23		48	48	1	-
88	7		63	42	1	-
91	3		51	30	1	-
94	16		43	29	1	-
97	7		39	31		
100	3		27	21		
103	3		21	9		
106	3		15	7		
109	-		8	6		
112	-		4	3		
115	3		4	2		
118			2	2		
121			-	2		
124			1	1		
127+			2	2		
	1000		1000	1000	1000	1000
N _c (000)						
W _c (tons)	274		755	1000	407	999
Samples (L)	-		-	-	-	-
No. Meas.	307		2000	1224	780	629
L (cm)	62.3		78.3	75.8	49.0	42.5
W (gm)	2.47		4.58	4.21	1.13	(0.78)
Mesh (mm)	-		-	-	150-175	160-175
Depth (m)	37-200		-	-	18-255	10-185
AGE GROUP	68	4	1	2	123	354
	67	5	7	5	311	407
	66	6	43	45	371	183
	65	7	65	74	131	42
	64	8	191	228	28	9
	63	9	271	285	27	5
	62	10	124	112	3	-
	61	11	104	91	3	-
	60	12	64	51	2	-
	59	13	24	20	1	-
	58	14	28	21		
	57	15	30	23		
	56	16	18	17		
	16+	30	26			
Total			1000	1000	1000	1000
Samples (A)			-	-	-	-
No. Aged			365	*	104	*

* Age composition here based on June age-length key sampled on June 30

TABLE 3.1. LENGTH AND AGE FREQUENCIES - COD 1972 - Denmark (G) - 1B, 1C

COUNTRY: DENMARK (G)			GEAR: Otter trawl, Pound net, Handline						
Commercial landings									
Mid-point of length group (cm)	1B			1C					
	PN		PN & HL	OT			PN		
	Jun	Jul	Sep	Jan	Feb	Apr	Jul		
LENGTH GROUP	40	-	5	-	-	1	1	5	
	43	40	15	-	2	23	21	-	
	46	75	20	-	34	94	81	50	
	49	146	45	-	73	164	140	131	
	52	146	100	7	103	176	153	141	
	55	155	115	7	127	172	191	176	
	58	116	170	7	102	113	134	131	
	61	101	140	-	85	76	114	106	
	64	131	125	3	134	56	80	80	
	67	30	90	3	88	34	40	55	
	70	35	50	10	96	41	24	50	
	73	10	70	42	51	15	10	30	
	76	5	15	35	34	5	8	15	
	79	-	25	108	22	8	-	10	
	82	5	5	94	15	5	1	-	
	85	5	-	168	12	5	-	5	
	88	-	10	101	8	2	1	5	
	91	-	-	136	5	-	1	-	
	94	-	-	94	2	4	-	5	
	97	-	-	91	2	-	-	5	
	100	-	-	56	1	3	-	-	
	103	-	-	21	1	2	-	-	
	106	-	-	17	-	1	-	-	
	109	-	-	-	-	-	-	-	
112	-	-	-	-	-	-	-		
115	-	-	-	-	-	-	-		
118	-	-	-	1	-	-	-		
121	-	-	-	1	-	-	-		
124	-	-	-	1	-	-	-		
		1000	1000	1000	1000	1000	1000		
N _c (000)									
W _c (tons)									
Samples (L)									
No. Meas.		199	200	287	923	925	778	199	
L _c (cm)		56.1	60.9	86.9	61.7	56.1	55.8	58.3	
W _c (gm)								2.37	
Mesh (mm)									
Depth (m)									
AGE GROUP	68	4	110	147	11	69	175	149	327
	67	5	453	507	20	368	538	274	413
	66	6	352	281	59	394	221	502	190
	65	7	80	35	309	123	44	43	40
	64	8	5	5	42	7	2	21	10
	63	9	-	20	46	13	5	8	5
	62	10	-	-	49	1	-	-	-
	61	11	-	5	264	13	7	2	5
	60	12	-	-	172	5	5	-	5
	59	13	-	-	11	4	1	-	-
	58	14	-	-	7	1	-	-	-
	57	15	-	-	10	1	2	1	-
		15+	-	-	-	1	-	-	-
	Total		1000	1000	1000	1000	1000	1000	1000
Samples (A)		1	1	1	2	1	1	1	
No. Aged		199	199	285	675	263	199	199	

TABLE 3.2. LENGTH AND AGE FREQUENCIES - COD 1972 - Denmark (G) - 1D

COUNTRY: DENMARK (G)			GEAR: Otter trawl, Pound net, Gillnet					
Commercial catches (OT); Research (PN & GN)								
Mid-point of length group (cm)	OT				PN	GN		
	Jun	Jul	Nov	Dec	Jul	Jun	Aug	
28	-	-	-	-	-	-	6	
31	-	-	-	-	-	-	-	
34	-	-	-	-	15	72	24	
37	-	-	1	2	40	133	72	
40	-	2	3	21	102	292	96	
43	8	15	25	58	168	342	96	
46	22	42	41	83	186	144	114	
49	26	75	66	119	186	17	127	
52	31	61	79	119	102	-	43	
55	34	62	91	121	58	-	43	
58	43	45	66	88	40	-	61	
61	61	40	66	72	47	-	96	
64	74	51	71	52	15	-	60	
67	116	92	89	31	22	-	72	
70	106	94	80	52	11	-	36	
73	112	98	92	40	-	-	12	
76	114	105	65	35	4	-	12	
79	82	72	59	29	-	-	6	
82	47	52	42	18	-	-	6	
85	48	31	32	20	4	-	12	
88	30	26	13	8	-	-	-	
91	22	12	8	11	-	-	6	
94	10	8	4	9	-	-	-	
97	5	6	4	5	-	-	-	
100	7	7	2	5	-	-	-	
103	1	3	-	1	-	-	-	
106	-	1	-	1	-	-	-	
109	1	-	1	-	-	-	-	
	1000	1000	1000	1000	1000	1000	1000	
N _c (000)								
W _c (tons)								
Samples (L)								
No. Meas.	770	1084	1083	964	274	181	166	
L _m (cm)	70.5	67.5	64.8	59.2	48.5	41.3	52.5	
W _m (gm)	3.30	3.20	3.05	2.39	1.10			
Mesh (mm)								
Depth (m)					0-35			
AGE GROUP	69	3	-	-	-	-	-	
	68	4	46	223	348	564	741	
	67	5	60	107	170	154	112	
	66	6	249	230	254	136	110	
	65	7	233	181	115	60	15	
	64	8	127	86	44	27	18	
	63	9	174	104	46	30	4	
	62	10	42	7	8	7	-	
	61	11	33	34	7	12	-	
	60	12	21	23	5	5	-	
	59	13	6	1	1	1	-	
	58	14	-	1	-	-	-	
57	15	8	3	1	1	-		
56	16	1	-	-	-	-		
Total	1000	1000	1000	1000	1000			
Samples (A)	1	1		2	1			
No. Aged	425	470		875	165			

TABLE 3.3. LENGTH AND AGE FREQUENCIES - COD 1972 - Denmark (G) - 1F

COUNTRY: DENMARK (G)			GEAR: Pound net		
Commercial landings (Aug); Research landings (Jun)					
Mid-point of length group (cm)	PN				
	Jun	Aug			
LENGTH GROUP	40	6	-		
	43	49	-		
	46	163	-		
	49	203	-		
	52	131	5		
	55	94	30		
	58	67	30		
	61	56	85		
	64	36	150		
	67	43	215		
	70	39	165		
	73	46	130		
	76	33	105		
	79	15	55		
	82	11	20		
	85	4	5		
	88	-	-		
91	-	5			
94	3	-			
97	-	-			
100	1	-			
		1000	1000		
N _c (000)					
W _c (tons)					
Samples (L)					
No. Meas.		719	200		
L _w (cm)		55.7	68.8		
W _w (gm)		2.46	3.70		
Mesh (mm)					
Depth (m)					
AGE GROUP	68	4	262	5	
	67	5	278	5	
	66	6	144	30	
	65	7	26	25	
	64	8	90	330	
	63	9	159	510	
	62	10	22	65	
	61	11	12	30	
	60	12	2	-	
	59	13	-	-	
	58	14	3	-	
57	15	2	-		
Total		1000	1000		
Samples (A)		1	1		
No. Aged		412	200		

TABLE 4.1. LENGTH AND AGE FREQUENCIES - COD 1972 - Fed. Rep. Germany - 1C, 1D

COUNTRY: Fed. Rep. Germany			GEAR: Otter trawl			
Commercial landings (Feb); Commercial catches (May); Research catches (Dec)						
Mid-point of length group (cm)	1C			1D		
	Feb	Dec	May	Dec		
28			2	-		
31			5	-		
34	-	14	6	3		
37	-	43	8	6		
40	-	81	14	22		
43	-	105	9	43		
46	-	119	14	129		
49	-	133	23	156		
52	21	86	30	165		
55	33	76	45	193		
58	73	86	55	92		
61	108	76	67	80		
64	171	24	88	21		
67	134	43	108	18		
70	134	24	121	15		
73	92	24	114	9		
76	91	14	86	3		
79	57	14	62	6		
82	33	19	45	12		
85	15	5	34	3		
88	15	-	23	-		
91	8	-	15	3		
94	6	-	10	15		
97	5	5	8	3		
100	3	9	8	3		
103	1	-	-	-		
106						
		1000	1000	1000	1000	
N _c (000)						
W _c (tons)	1372	33	978	346		
Samples (L)	-	-	-	-		
No. Meas.	415	210	3274	337		
L (cm)	68.6	54.0	68.8	55.0		
W (gm)	2.9	1.5	3.1	1.7		
Mesh (mm)	130	60	130	60		
Depth (m)	-	-	-	-		
AGE GROUP	70	2	-	3		
	69	3	-	4	60	
	68	4	206	77	757	
	67	5	529	133	103	
	66	6	157	269	25	
	65	7	44	202	25	
	64	8	24	120	3	
	63	9	20	113	3	
	62	10	6	27	6	
	61	11	-	19	9	
	60	12	5	27	6	
	59	13	-	1	-	
	58	14	-	4	-	
	57	15	9	10	-	
	Total	1000	1000	1000	1000	
Samples (A)						
No. Aged	179	199	507	314		

TABLE 4.2. LENGTH AND AGE FREQUENCIES - COD 1972 - Fed. Rep. Germany - 1E, 1F

COUNTRY: Fed. Rep. Germany			GEAR: Otter trawl					
Commercial landings (Feb, Mar); Commercial catches (May); Research catches (Dec)								
Mid-point of length group (cm)	1E			1F				
	May	Dec		Feb	Mar	May	Dec	
34	3	-		-	-	4	8	
37	5	-		-	-	9	47	
40	10	7		-	1	9	124	
43	15	-		-	3	11	256	
46	20	47		-	2	17	186	
49	30	33		2	2	22	101	
52	37	33		8	8	27	62	
55	57	33		12	15	34	31	
58	79	46		31	11	48	16	
61	105	40		26	36	57	15	
64	123	80		21	54	80	8	
67	140	87		70	98	94	15	
70	116	127		140	120	122	16	
73	84	113		165	162	131	31	
76	56	133		150	173	103	23	
79	38	67		152	165	76	31	
82	24	60		79	97	49	8	
85	17	33		82	23	31	7	
88	13	27		34	11	21	-	
91	9	7		9	5	17	15	
94	7	7		8	5	13	-	
97	4	7		6	4	11	-	
100	3	7		2	2	8	-	
103	2	-		3	2	6	-	
106	1	6		-	1	-	-	
109	1	-						
112	1	-						
	1000	1000		1000	1000	1000	1000	
N _c (000)								
W _c (tons)	1557	828		566	263	711	514	
Samples (L)	-	-		-	-	-	-	
No. Meas.	2982	150		427	415	1045	129	
L (cm)	66.3	70.1		75.4	74.1	70.3	50.5	
W (gm)	2.8	3.3		3.9	3.7	3.3	1.2	
Mesh (mm)	130	60		130	130	130	60	
Depth (m)	-	-		-	-	-	-	
AGE GROUP	70	2		-	5	-	8	
	69	3		-	-	-	41	
	68	4	63	180	-	5	47	703
	67	5	67	85	4	4	33	48
	66	6	256	453	18	65	111	54
	65	7	84	154	56	9	114	7
	64	8	271	44	214	303	307	32
	63	9	190	35	480	427	253	69
	62	10	28	14	132	114	58	22
	61	11	14	21	73	49	35	8
	60	12	20	14	18	17	30	-
	59	13	-	-	-	-	4	-
	58	14	1	-	3	6	-	8
	57	15	5	-	-	1	9	-
56	15+	1	-	2	2	-	-	
Total	1000	1000		1000	1000	1000	1000	
Samples (A)	10	1		2		5	1	
No. Aged	999	140		401		457	125	

TABLE 4.3. LENGTH AND AGE FREQUENCIES - COD 1972 - Fed. Rep. Germany - SE Greenland

COUNTRY: Fed. Rep. Germany		GEAR: Otter trawl											
All based on Commercial landings, except June (Comm. catches) and March (Comm. catches and landings)													
Mid-point of length group (cm)	COMPOSITION OF CATCHES/LANDINGS												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
LENGTH GROUP	31	-	-	-	-	-	1	-	-	-	-	-	-
	34	-	-	-	-	-	1	-	-	-	-	-	-
	37	-	-	-	-	-	3	-	-	-	-	-	-
	40	-	-	-	-	-	8	-	-	-	-	-	-
	43	-	-	-	-	-	13	-	1	-	-	-	-
	46	-	-	1	-	-	18	-	3	-	-	-	-
	49	2	-	1	-	-	24	-	15	-	-	-	-
	52	4	1	4	-	-	33	-	42	-	-	-	-
	55	5	1	5	1	1	42	-	49	-	-	-	-
	58	14	14	11	19	18	56	-	36	-	-	-	-
	61	42	59	17	37	47	73	-	45	-	-	-	-
	64	60	67	34	66	64	98	-	34	-	-	-	-
	67	83	152	63	149	77	120	-	48	-	-	-	-
	70	135	194	82	133	127	136	-	58	-	-	-	-
	73	166	183	108	160	124	119	-	101	-	-	-	-
	76	165	116	147	169	140	84	-	100	-	-	-	-
	79	117	85	142	133	137	55	-	105	-	-	-	-
	82	77	58	138	65	124	39	-	114	-	-	-	-
	85	56	36	92	41	48	27	-	85	-	-	-	-
	88	34	20	62	9	55	19	-	86	-	-	-	-
91	18	10	36	9	31	13	-	57	-	-	-	-	
94	13	2	20	3	4	8	-	12	-	-	-	-	
97	2	1	15	3	1	5	-	9	-	-	-	-	
100	3	1	10	1	1	2	-	-	-	-	-	-	
103	2	-	6	1	1	1	-	-	-	-	-	-	
106	1	-	2	-	-	1	-	-	-	-	-	-	
109	1	-	2	1	-	-	-	-	-	-	-	-	
112	-	-	1	-	-	-	-	-	-	-	-	-	
115	-	-	1	-	-	-	-	-	-	-	-	-	
		1000	1000	1000	1000	1000	1000	1000	-	-	-	-	-
N _c (000)		-	-	-	-	-	-	-	-	-	-	-	-
W _c (tons)		-	-	-	-	-	-	-	-	-	-	-	-
Samples (L)		-	-	-	-	-	-	-	-	-	-	-	-
No. Meas.		1657	443	3209	470	431	7281	466	-	-	-	-	-
L (cm)		75.0	72.8	78.7	73.8	75.7	68.6	75.2	-	-	-	-	-
W (gm)		3.7	3.4	4.3	3.6	3.8	2.9	3.8	-	-	-	-	-
Mesh (mm)		130	130	130	130	130	130	130	-	-	-	-	-
Depth (m)		-	-	-	-	-	-	-	-	-	-	-	-
AGE GROUP	68	4	3	1	2	1	1	50	48	-	-	-	-
	67	5	14	13	9	9	9	58	54	-	-	-	-
	66	6	33	42	23	81	71	156	150	-	-	-	-
	65	7	37	47	28	94	84	83	58	-	-	-	-
	64	8	209	241	165	292	256	261	228	-	-	-	-
	63	9	495	491	491	385	408	278	378	-	-	-	-
	62	10	117	105	133	79	89	55	33	-	-	-	-
	61	11	63	47	88	40	53	37	51	-	-	-	-
	60	12	18	8	35	16	23	17	-	-	-	-	-
	59	13	4	2	8	1	2	1	-	-	-	-	-
	58	14	3	1	7	1	3	2	-	-	-	-	-
	57	15	3	2	9	1	1	1	-	-	-	-	-
	15+	1	-	2	-	-	1	-	-	-	-	-	-
Total		1000	1000	1000	1000	1000	1000	1000	-	-	-	-	-
Samples (A)		-	16	-	-	27	-	1	-	-	-	-	-
No. Aged		-	1788	-	-	1674	-	139	-	-	-	-	-

TABLE 4.4. LENGTH AND AGE FREQUENCIES - COD 1972 - Fed. Rep. Germany - E Greenland

COUNTRY: Fed. Rep. Germany			GEAR: Otter trawl									
Commercial landings												
Mid-point of length group (cm)	COMPOSITION OF CATCHES/LANDINGS											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
LENGTH GROUP	55		2		-							
	58		2		11							
	61		19		47							
	64		37		55							
	67		55		93							
	70		87		94							
	73		113		99							
	76		172		95							
	79		132		95							
	82		121		134							
	85		100		87							
	88		61		75							
	91		48		44							
	94		26		37							
	97		14		17							
	100		5		7							
	103		3		5							
	106		-		4							
109		2		1								
112		-		-								
115		-		-								
118		1		-								
			1000	1000								
N _c (000)												
W _c (tons)												
Samples (L)												
No. Meas.			760		480							
M _L (cm)			78.9		78.2							
W (gm)			4.5		4.2							
Mesh (mm)			130		130							
Depth (m)												
AGE GROUP	68	4			12							
	67	5			26							
	66	6		40	38							
	65	7		22	93							
	64	8		121	164							
	63	9		555	348							
	62	10		154	180							
	61	11		77	97							
	60	12		17	33							
	59	13		-	8							
	58	14		-	4							
	57	15		7	3							
	15+		2	-								
Total			1000		1000							
Samples (A)			2		1							
No. Aged			320		188							

TABLE 5.1. LENGTH AND AGE FREQUENCIES - COD 1972 - Poland - 2J, 3K, 3L

COUNTRY: Poland		GEAR: Otter trawl		
Commercial catches				
Mid-point of length group (cm)	2J		3K	3L
	Jan	Feb	Mar	
LENGTH GROUP	22			2
	25	1		9
	28	7	1	27
	31	31	8	66
	34	75	30	145
	37	124	67	209
	40	148	103	211
	43	109	113	137
	46	87	102	75
	49	82	110	45
	52	84	101	30
	55	76	104	19
	58	60	82	7
	61	45	67	6
	64	29	47	6
	67	21	29	1
	70	10	17	2
	73	6	8	1
	76	3	5	1
79	1	3	-	
82	-	1	1	
85	1	1		
88		1		
	1000	1000	1000	
N_c (000)				
W_c (tons)	8889	16541	498	
Samples (L)	8	8	1	
No. Meas.	12526	13197	1746	
\bar{L} (cm)	46.5	50.2	40.8	
\bar{W} (gm)	0.96	1.20	0.64	
Mesh (mm)	130	130	130	
Depth (m)	153-262	142-230	109-164	
AGE GROUP	70	2	-	2
	69	3	-	3
	68	4	71	420
	67	5	390	436
	66	6	210	115
	65	7	204	5
	64	8	89	7
	63	9	21	6
	62	10	7	1
	61	11	2	2
	60	12	-	1
	59	13	2	1
	13+	2	3	1
Total	1000	1000	1000	
Samples (A)	-	-	-	
No. Aged	1200	1359	200	

TABLE 6.1. LENGTH AND AGE FREQUENCIES - COD 1972 - Portugal - 1C

COUNTRY: Portugal		GEAR: Gillnets										
Commercial catches												
Mid-point of length group (cm)	COMPOSITION OF CATCHES/LANDINGS											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
LENGTH GROUP	52					1	1	-				
	55					-	2	-				
	58					20	5	2				
	61					28	5	2				
	64					26	6	5				
	67					40	10	16				
	70					55	44	65				
	73					58	65	90				
	76					60	85	115				
	79					91	102	117				
	82					98	112	128				
	85					81	115	105				
	88					89	110	90				
	91					75	98	77				
	94					80	82	63				
	97					58	68	54				
	100					42	43	32				
	103					31	22	20				
106					26	13	9					
109					18	7	6					
112					13	3	2					
115					7	1	1					
118					3	1	1					
						1000	1000	1000				
N _c (000)												
W _c (tons)						374	2014	544				
Samples (L)						5	20	8				
No. Meas.						2314	9965	3293				
L (cm)						84.5	85.2	84.5				
W (gm)						(5.41)	(5.55)	(5.41)				
Mesh (mm)						193	193	193				
Depth (m)						146-156	-	-				
AGE GROUP	67	5				16	11	4				
	66	6				146	71	95				
	65	7				189	246	299				
	64	8				81	94	106				
	63	9				44	61	61				
	62	10				81	74	65				
	61	11				179	195	165				
	60	12				177	185	154				
	59	13				63	30	25				
	58	14				10	17	14				
57	15				7	14	11					
	15+				7	2	1					
Total						1000	1000	1000				
Samples (A)						2		8				
No. Aged						150		575				

TABLE 7.1. LENGTH AND AGE FREQUENCIES - COD 1972 - Spain - 3L, 3M, 3N, 3Ps

COUNTRY: Spain		GEAR: Otter trawl, Pair trawl					
Commercial catches							
Mid-point of length group (cm)	3L (OT)		3M (OT)		3N (PT)		3Ps (OT)
	Feb	Mar	Jun	Jul	Sep		
28	2						
31	18		1	-			
34	41		17	-			
37	62		37	-			
40	76		78	-	22	-	
43	94		105	-	67	126	70
46	94		96	32	84	89	65
49	88		113	44	129	111	90
52	97		133	57	129	45	115
55	90		116	215	85	119	182
58	86		104	203	124	170	143
61	76		70	152	118	104	130
64	55		51	113	79	126	78
67	37		45	57	67	22	52
70	32		18	95	62	44	13
73	23		3	32	34	7	13
76	15		7	-	-	30	34
79	8		3	-	-	7	13
82	3		-	-	-	-	2
85	3		3	-	-	-	-
LENGTH GROUP							
		1000	1000	1000	1000	1000	1000
N _c (000)							
W _c (tons)		1231	32	52	11223	7452	101
Samples (L)		-	-	-	-	-	-
No. Meas.		3227	705	158	178	135	384
L (cm)		51.8	51.9	59.5	56.0	56.0	56.7
W (gm)		(1.39)	(1.39)	(2.08)	(1.75)	(1.75)	(1.81)
Mesh (mm)		-	-	-	-	-	-
Depth (m)		215-242	-	-	-	-	120-200
AGE GROUP	69	3	59	118	14		
	68	4	480	254	63		
	67	5	187	212	179		
	66	6	136	234	365		
	65	7	52	121	210		
	64	8	52	6	32		
	63	9	12	42	105		
	62	10	2	13	32		
61	11	12					
60	12	8					
Total		1000	1000	1000			
Samples (A)		-	-	-			
No. Aged		154	58				

TABLE 7.2. LENGTH AND AGE FREQUENCIES - COD 1972 - Spain - 4R, 4Vn

COUNTRY: Spain			GEAR: Otter trawl					
Commercial catches								
Mid-point of length group (cm)	4R			4Vn				
	Jan	Feb	Mar	Feb	Mar	Apr	Sep	
LENGTH GROUP	28		5					
	31		22					
	34		60					
	37		116					
	40		128					
	43		117					
	46		122					
	49		116					
	52		120					
	55		75					
	58		45					
	61		29					
	64		29					
	67		10					
	70		6					
	73							
	76							
	79							
82								
			1000		1000	1000	1000	
N _c (000)								
W _c (tons)			115		1220	873	293	405
Samples (L)			-		-	-	-	-
No. Meas.			822		2149	1514	243	1170
\bar{L} (cm)			46.3		51.9	50.9	52.9	53.9
\bar{W} (gm)			(0.97)		(1.37)	(1.29)	(1.46)	(1.54)
Mesh (mm)			-		-	-	-	-
Depth (m)			300-400		160-220	160-220	120-180	120-200
AGE GROUP	70	2	27		4	12	1	9
	69	3	20		46	46	31	67
	68	4	64		204	221	192	398
	67	5	366		149	153	133	256
	66	6	213		343	328	357	198
	65	7	147		156	146	185	37
	64	8	125		53	52	67	27
	63	9	38		20	20	14	8
	62	10			4	3	-	-
	61	11			9	6	9	-
	60	12			6	5	2	-
		12+			6	8	9	-
Total			1000		1000	1000	1000	
Samples (A)			-		-	-	-	
No. Aged			50		167	-	72	

TABLE 8.1. LENGTH AND AGE FREQUENCIES - COD 1972 - USSR - 2J

COUNTRY: USSR			GEAR: Otter trawl									
Exploratory catches												
Mid-point of length group (cm)	COMPOSITION OF CATCHES/LANDINGS											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
LENGTH GROUP	28	2		2		9						
	31	11		7		49						
	34	31		25		157						
	37	86		35		161						
	40	153		36		169						
	43	171		47		113						
	46	128		73		79						
	49	101		63		69						
	52	114		97		57						
	55	84		94		52						
	58	45		127		32						
	61	33		109		24						
	64	19		94		8						
	67	11		73		7						
	70	6		40		6						
	73	3		32		4						
	76	1		18		2						
	79	1		11		1						
	82	-		7		1						
85	-		4		-							
88	-		2		-							
91	-		2		-							
94	-		1		-							
97	-		1		-							
		1000		1000		1000						
N_c (000)												
W_c (tons)		35726		18611		30						
Samples (L)		-		2		-						
No. Meas.		7135		11453		2963						
\bar{L} (cm)		46.9		56.3		42.9						
\bar{W} (gm)		(1.04)		(1.75)		(0.80)						
Mesh (mm)		130		130		130						
Depth (m)		130-270		200-250		123-200						
AGE GROUP	68	4		30		166						
	67	5		99		363						
	66	6		137		212						
	65	7		206		140						
	64	8		183		61						
	63	9		134		26						
	62	10		98		16						
	61	11		55		8						
	60	12		33		4						
	59	13		10		2						
	58	14		5		1						
	57	15		2		-						
		15+		8		1						
	Total				1000		1000					
Samples (A)						2						
No. Aged						699						

TABLE 8.2: LENGTH AND AGE FREQUENCIES - COD 1972 - USSR - 3K, 3M

COUNTRY: USSR		GEAR: Otter trawl				
Exploratory catches						
Mid-point of length group (cm)	3K			3M		
	Feb	Jun	Jul	Mar		
LENGTH GROUP	28	3	4	-		
	31	22	15	6		
	34	53	25	28		
	37	119	57	34		
	40	115	84	68		
	43	109	117	93	5	
	46	75	137	84	16	
	49	66	116	108	39	
	52	76	110	65	82	
	55	80	91	81	127	
	58	68	59	76	172	
	61	62	53	85	172	
	64	53	44	67	125	
	67	34	28	53	106	
	70	26	21	49	51	
	73	14	15	43	41	
	76	11	10	21	34	
	79	5	5	15	12	
	82	3	4	16	10	
	85	3	2	4	1	
88	1	2	3	2		
91	1	1	1	2		
94	1	-	-	2		
97				-		
100				-		
103				1		
	1000	1000	1000	1000		
N _c (000)						
W _c (tons)	46441	941	492	3231		
Samples (L)	-	-	-	-		
No. Meas.	7273	4416	1708	822		
L _m (cm)	49.6	50.4	54.9	61.4		
W (gm)	1.22	1.28	1.65	2.28		
Mesh (mm)	130	130	130	130		
Depth (m)	140-255	185-215	155-190	230-257		
AGE GROUP						
Total						
Samples (A)						
No. Aged						

TABLE 9.1. LENGTH AND AGE FREQUENCIES - COD 1972 - United Kingdom - 1E, 1F

COUNTRY: United Kingdom		GEAR: Otter trawl			
Commercial landings					
Mid-point of length group (cm)	1E			1F	
	May	Sep		Sep	
LENGTH GROUP	37	5	17	7	
	40	10	58	22	
	43	14	103	126	
	46	29	112	136	
	49	29	101	147	
	52	14	54	101	
	55	40	40	84	
	58	63	33	54	
	61	86	43	72	
	64	81	48	56	
	67	96	60	78	
	70	143	63	32	
	73	174	104	48	
	76	117	67	16	
	79	99	52	5	
	82	-	23	11	
	85	-	19	5	
	88	-	3		
		1000	1000		1000
N _c (000)	2	307		14	
W _c (tons)					
Samples (L)	1	3		1	
No. Meas.	171	703		280	
L _c (cm)	67.3	59.6		55.4	
W (gm)	2.78	2.16		1.72	
Mesh (mm)					
Depth (m)					
AGE GROUP					
Total					
Samples (A)					
No. Aged					

TABLE 9.2. LENGTH AND AGE FREQUENCIES - COD 1972 - United Kingdom - 2J

COUNTRY: UNITED KINGDOM			GEAR: Otter trawl									
Commercial landings												
Mid-point of length group (cm)	COMPOSITION OF CATCHES/LANDINGS											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
LENGTH GROUP	37			-				2	-	19		
	40			84				6	11	58		
	43			57				91	53	98		
	46			142				255	78	143		
	49			143				255	117	203		
	52			115				136	93	144		
	55			33				95	119	110		
	58			87				63	72	129		
	61			91				48	84	67		
	64			59				17	77	9		
	67			88				4	68	7		
	70			58				8	68	5		
	73			30				4	48	2		
	76			3				5	35	-		
	79			1				2	45	4		
	82			4				2	10	-		
	85			2				2	16	2		
	88			1				2	3	-		
	91			1				1	3	-		
	94			1				1	-	-		
97			-				-	-	-			
100			-				1	-	-			
N _c (000)						1000			1000	1000	1000	
W _c (tons)						288			1230	595	429	
Samples (L)						1			2	1	2	
No. Meas.						146			808	294	279	
L (cm)						55.2			51.4	59.9	51.4	
W (gm)						1.79			1.40	2.17	1.37	
Mesh (mm)												
Depth (m)												
AGE GROUP	68	4						276	160	289		
	67	5						189	80	161		
	66	6						344	242	311		
	65	7						97	172	130		
	64	8						52	182	68		
	63	9						27	102	26		
	62	10						7	46	4		
61	11						8	16	11			
Total									1000	1000	1000	
Samples (A)									4			
No. Aged									109 ¹			

¹ Age-length key for Aug, Sep, Oct combined.

TABLE 9.3. LENGTH AND AGE FREQUENCIES - COD 1972 - United Kingdom - 3M

COUNTRY: UNITED KINGDOM			GEAR: Otter trawl												
Commercial landings															
LENGTH GROUP	Mid-point of length group (cm)	COMPOSITION OF CATCHES/LANDINGS													
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
LENGTH GROUP	31						2		-	-					
	34						21		-	-					
	37						33		5	-					
	40						113		73	36					
	43						182		234	169					
	46						161		190	264					
	49						142		220	197					
	52						78		117	87					
	55						82		83	79					
	58						75		21	47					
	61						42		29	43					
	64						30		5	17					
	67						16		5	32					
	70						8		1	17					
	73						2		6	-					
	76						2		3	10					
	79						1		2	-					
	82						1		1	2					
	85						1		2	-					
88						4		1	-						
91						-		-	-						
94						-		-	-						
97						2		-	-						
100						2		2	-						
						1000		1000	1000						
N _c (000)								1455		496	422				
W _c (tons)								2		1	1				
Samples (L)								1402		402	274				
No. Meas.								49.5		48.4	50.5				
L _c (cm)								1.20		1.18	1.24				
W (gm)															
Mesh (mm)															
Depth (m)															
AGE GROUP	68	4					600		429	379					
	67	5					208		328	326					
	66	6					75		134	156					
	65	7					22		64	74					
	64	8					29		39	56					
	63	9					36		2	9					
	62	10					18		3	-					
	61	11					8		-	-					
	60	12					2		1	-					
	59	13					1		-	-					
58	14					1		-	-						
Total						1000		1000	1000						
Samples (A)								2		3					
No. Aged								66		78					

TABLE 11.1. LENGTH AND AGE FREQUENCIES - HADDOCK 1972 - Canada (MQ) - 4W

COUNTRY: CANADA (MQ)			GEAR: Otter trawl, Longline			
Commercial landings						
Mid-point of length group (cm)	OT			LL		
	Mar	Jun	Nov	Oct		
(2 cm)						
30.5	6	-	-	-		
32.5	4	-	-	-		
34.5	14	-	-	-		
36.5	16	6	8	-		
38.5	24	19	35	-		
40.5	28	63	93	-		
42.5	39	75	143	5		
44.5	52	129	102	5		
46.5	52	159	99	55		
48.5	82	145	100	45		
50.5	89	127	57	50		
52.5	113	133	58	80		
54.5	96	65	58	110		
56.5	116	43	29	110		
58.5	88	10	80	115		
60.5	70	10	63	110		
62.5	48	5	23	95		
64.5	28	8	17	65		
66.5	9	3	17	95		
68.5	13	-	6	40		
70.5	4	-	6	10		
72.5	6	-	-	5		
74.5	-	-	6	5		
76.5	1	-	-	-		
78.5	1	-	-	-		
80.5	1	-	-	-		
	1000	1000	1000	1000		
N _c (000)						
W _c (tons)	788	215	32	98		
Samples (L)	5	1	1	1		
No. Meas.	1170	251	240	200		
L (cm)	52.6	48.4	49.6	58.1		
W (gm)	1.66	1.25	1.41	2.19		
Mesh (mm)	114	114	114	610 ¹		
Depth (m)	101-201	82-110	91-101	91-110		
AGE GROUP	70	2	4	-	-	
	69	3	66	163	530	10
	68	4	162	209	136	155
	67	5	239	538	86	185
	66	6	278	13	121	170
	65	7	106	57	89	245
	64	8	80	14	20	52
	63	9	55	4	6	178
	62	10	7	-	6	6
	61	11	3	2	6	-
Total	1000	1000	1000	1000		
Samples (A)	5	1	1	1		
No. Aged	190	30	35	29		

¹ Refers to hook size.

TABLE 11.2. LENGTH AND AGE FREQUENCIES - HADDOCK 1972 - Canada (MQ) - 4X

COUNTRY: CANADA (MQ)			GEAR: Otter trawl											
Commercial landings														
Mid-point of length group (cm)		COMPOSITION OF CATCHES/LANDINGS												
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
LENGTH GROUP	(2 cm)													
	30.5	-	1	-	-	-	-	-	3	-	-	-	-	-
	32.5	13	3	15	9	2	4	-	11	-	-	-	3	-
	34.5	44	10	80	13	32	11	28	10	3	-	-	3	-
	36.5	87	31	65	53	63	57	51	64	5	-	-	8	-
	38.5	124	33	84	62	68	88	124	89	59	-	-	16	-
	40.5	94	44	65	34	43	101	151	165	107	-	-	76	-
	42.5	66	42	70	50	41	103	208	147	173	-	-	114	-
	44.5	55	30	101	73	43	95	174	146	158	-	-	145	-
	46.5	55	54	85	90	60	44	128	84	119	-	-	130	-
	48.5	74	85	86	115	76	39	34	61	94	-	-	65	-
	50.5	86	114	57	131	71	44	17	34	64	-	-	79	-
	52.5	72	118	70	100	102	42	39	27	52	-	-	68	-
	54.5	64	102	52	80	95	78	11	33	43	-	-	46	-
	56.5	52	110	44	50	80	83	11	26	55	-	-	60	-
	58.5	47	68	35	49	68	70	6	23	27	-	-	63	-
	60.5	30	60	25	49	72	55	6	28	20	-	-	32	-
	62.5	17	38	25	26	38	42	-	19	11	-	-	35	-
	64.5	11	26	22	12	15	19	6	16	7	-	-	16	-
	66.5	5	18	13	4	19	17	-	8	3	-	-	16	-
68.5	3	8	6	-	8	6	6	3	-	-	-	11	-	
70.5	1	1	-	-	-	2	-	2	-	-	-	3	-	
72.5	-	2	-	-	4	-	-	-	-	-	-	11	-	
74.5	-	1	-	-	-	-	-	1	-	-	-	-	-	
76.5	-	1	-	-	-	-	-	-	-	-	-	-	-	
		1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
N _c (000)														
W _c (tons)		712	1201	524	376	664	1806	730	622	470		317		
Samples (L)		8	5	1	2	1	2	1	2	2		2		
No. Meas.		2657	1172	243	628	314	474	178	623	410		369		
L (cm)		46.6	51.9	46.8	49.1	50.4	49.0	43.5	45.5	46.9		50.3		
W (gm)		1.18	1.60	1.21	1.35	1.49	1.38	0.91	1.09	1.16		1.42		
Mesh (mm)		114	114	114	114	114	114	114	114	114		114		
Depth (m)		55-165	64-165	128-146	10-146	119-137	73-183	84	73-132	119-128		73-169		
AGE GROUP	71	1	-	-	-	-	-	26	28	7		-		
	70	2	-	-	-	-	-	9	7	2		9		
	69	3	402	154	382	224	236	332	780	683	640		607	
	68	4	263	269	291	352	260	233	126	132	195		176	
	67	5	76	113	72	108	84	61	20	25	36		26	
	66	6	96	157	85	78	94	83	12	29	38		51	
	65	7	14	21	11	15	18	12	-	-	-		11	
	64	8	5	8	5	-	-	-	-	-	-		21	
	63	9	110	207	115	114	139	119	16	64	60		52	
	62	10	23	45	25	76	109	108	8	20	17		35	
	61	11	4	6	4	1	1	2	-	1	-		-	
	60	12	5	13	8	19	34	27	2	9	4		5	
	59	13	2	7	2	12	20	18	1	1	-		-	
	58	14	-	-	-	1	5	5	-	1	1		7	
Total		1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
Samples (A)			14			5			12				4	
No. Aged			479 ¹			177 ¹			396 ¹				128 ¹	

¹ Combined age-length keys for OT, LL, HL samples where available.

TABLE 11.2. LENGTH AND AGE FREQUENCIES - HADDOCK 1972 - Canada (MQ) - 4X (CONT'D)

COUNTRY: CANADA (MQ)			GEAR: Longline, Handline				
Commercial Landings							
Mid-point of length group (cm)	LL					HL	
	Jan	Jul	Aug	Sep	Oct	Nov	
(2 cm)							
32.5	-	-	2	-	-	-	
34.5	-	-	-	-	-	-	
36.5	-	8	7	-	5	-	
38.5	-	10	9	-	-	5	
40.5	-	5	20	-	10	10	
42.5	-	19	48	-	36	30	
44.5	-	25	53	35	72	60	
46.5	-	22	38	18	56	110	
48.5	27	45	59	36	26	110	
50.5	55	54	57	36	41	125	
52.5	14	49	62	36	42	70	
54.5	14	103	82	36	87	120	
56.5	123	75	76	18	97	95	
58.5	178	105	87	107	108	95	
60.5	233	115	101	89	128	60	
62.5	178	149	96	160	103	45	
64.5	68	88	87	160	77	30	
66.5	41	65	50	125	56	35	
68.5	41	36	32	54	26	-	
70.5	14	21	23	18	20	-	
72.5	14	3	7	18	10	-	
74.5	-	3	2	36	-	-	
76.5	-	-	2	18	-	-	
	1000	1000	1000	1000	1000	1000	
N _c (000)		423	591	681	670	4	
W _c (tons)	278						
Samples (L)	1	2	4	1	1	1	
No. Meas.	73	399	562	56	195	200	
L ₁₁ (cm)	60.1	57.9	56.2	61.5	56.8	53.2	
W (gm)	2.39	2.20	2.03	2.62	2.08	1.68	
Mesh (mm) ¹	6/0	6/0	6/0	6/0	6/0	#12	
Depth (m)	93-101	82-119	91-183	183	101-110	73	
AGE GROUP	71	1	1	2	-	-	
	70	2	1	1	-	2	
	69	3	139	228	90	255	
	68	4	174	180	97	188	
	67	5	53	49	32	69	
	66	6	115	96	100	105	
	65	7	26	-	-	37	
	64	8	25	-	-	72	
	63	9	439	307	261	360	
	62	10	118	113	100	142	
	61	11	19	8	9	17	
	60	12	46	66	51	98	
	59	13	27	12	14	28	
	58	14	-	11	9	36	
	1000	1000	1000	1000	1000	1000	
Samples (A)	*2		*2		*2	*2	
No. Aged	*2		*2		*2	*2	

¹ Refers to hook size.

² Same age-length keys as used for OT.

TABLE 11.3. LENGTH AND AGE FREQUENCIES - HADDOCK 1972 - Canada (MQ) - 5Ze

COUNTRY: CANADA (MQ)			GEAR: Longline									
Commercial landings												
Mid-point of length group (cm)	COMPOSITION OF CATCHES/LANDINGS											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
LENGTH GROUP	(2 cm)											
	54.5								16			
	56.5								48			
	58.5								48			
	60.5								118			
	62.5								79			
	64.5								87			
	66.5								143			
	68.5								143			
	70.5								63			
	72.5								71			
	74.5								56			
	76.5								48			
	78.5								48			
	80.5								16			
	82.5								8			
	84.5								8			
									1000			
N _c (000)												
W _c (tons)												
Samples (L)												
No. Meas.												
L _c (cm)												
W _c (gm)												
Mesh (mm) ¹												
Depth (m)												
AGE GROUP	68	4							8			
	67	5							56			
	66	6							60			
	65	7							83			
	64	8							257			
	63	9							440			
	62	10							48			
	61	11							40			
	60	12							8			
Total												
Samples (A)												
No. Aged												
									1000			
							1					
							30					

¹ Refers to hook size.

TABLE 12.1. LENGTH AND AGE FREQUENCIES - HADDOCK 1972 - USA - 5Ze

COUNTRY: USA		GEAR: Otter trawl												
Commercial landings														
Mid-point of length group (cm)	COMPOSITION OF CATCHES/LANDINGS													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
(2 cm)														
30.5	-	-	-	-	-	-	-	-	-	4	1	-		
32.5	-	-	-	-	-	-	-	-	-	57	5	-		
34.5	-	-	-	-	-	-	-	-	-	74	12	-		
36.5	-	-	-	-	-	-	-	-	-	131	44	21		
38.5	-	-	-	-	-	-	-	-	-	118	54	87		
40.5	-	-	-	-	-	-	-	-	-	48	53	70		
42.5	16	-	-	1	2	-	-	-	-	4	31	59		
44.5	24	-	-	3	9	13	-	-	-	-	7	7		
46.5	63	-	8	10	24	17	-	-	-	-	3	7		
48.5	63	22	29	32	48	17	11	8	-	-	3	9		
50.5	100	62	43	31	67	109	-	6	6	-	9	54		
52.5	36	84	71	47	67	95	11	43	-	-	52	56		
54.5	9	89	54	26	46	87	22	74	9	10	93	82		
56.5	18	34	50	23	38	41	22	66	10	28	87	64		
58.5	16	22	37	47	38	30	55	75	28	39	49	54		
60.5	30	55	49	43	39	48	99	53	53	19	48	73		
62.5	70	112	61	66	62	49	99	66	52	63	54	49		
64.5	109	73	64	65	80	85	132	70	79	48	41	60		
66.5	81	114	81	98	73	107	175	92	113	34	41	50		
68.5	90	92	102	140	83	66	99	82	98	48	55	19		
70.5	70	73	107	94	79	70	77	72	129	63	61	23		
72.5	65	80	73	105	89	74	99	93	148	77	47	38		
74.5	46	38	72	67	63	48	55	76	121	53	49	50		
76.5	34	22	56	53	38	29	33	50	61	53	54	12		
78.5	32	13	24	30	25	15	11	41	55	10	30	24		
80.5	9	9	8	9	17	-	-	11	22	14	13	17		
82.5	9	3	8	4	12	-	-	15	13	-	2	11		
84.5	6	3	3	5	1	-	-	-	3	5	-	2		
86.5	3	-	-	1	-	-	-	-	-	-	1	2		
88.5	1	-	-	-	-	-	-	7	-	-	1	-		
	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
N _c (000)														
W _c (tons) ¹	250	324	362	335	665	561	347	347	249	299	183	176		
Samples (L)														
No. Meas.	463	280	556	719	1444	257	91	372	456	217	661	380		
L (cm)	62.4	63.3	64.8	66.0	63.7	61.8	66.0	65.0	69.7	54.5	59.1	56.9		
W (gm)	2.78	2.67	2.73	2.85	2.52	2.43	2.86	3.00	3.50	2.19	2.49	2.23		
Mesh (mm)	114	114	114	114	114	114	114	114	114	114	114	114		
Depth (m)	55-70	55-59	22-91	46-97	44-73	60-115	55-82	80-101	101-179	53-77	64-75	55-70		
AGE GROUP	71	1	-	-	-	-	-	-	-	439	205	253		
	70	2	-	-	-	-	-	-	-	-	-	-		
	69	3	289	192	174	138	236	281	150	238	77	100	289	317
	68	4	30	22	18	32	43	57	50	64	26	11	47	48
	67	5	7	11	12	11	17	27	28	26	18	-	-	-
	66	6	58	85	78	74	72	79	50	32	41	5	5	2
	65	7	16	22	22	75	66	64	37	27	30	13	11	8
	64	8	17	37	29	39	31	26	43	35	54	30	35	35
	63	9	361	426	416	439	368	334	403	341	439	260	259	220
	62	10	159	142	186	128	118	91	146	139	181	67	75	62
	61	11	38	37	38	22	16	14	76	64	89	46	43	40
	60	12	25	26	27	42	31	27	17	34	45	29	27	5
Total		1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
Samples (A)			14		24			8						
No. Aged			265		454			156				220		

¹ Catches pertain to otter trawl in Subarea 5.

TABLE 13.1. LENGTH AND AGE FREQUENCIES - REDFISH 1972 - Canada (MQ) - 3Ps

COUNTRY: CANADA (MQ)		GEAR: Otter trawl										
Commercial landings												
Mid-point of length group (cm)	COMPOSITION OF CATCHES/LANDINGS											
	Oct											
	♂♂	♀♀	Total	♂♂	♀♀	Total	♂♂	♀♀	Total	♂♂	♀♀	Total
LENGTH GROUP	22	5	-	5								
	23	5	-	5								
	24	-	14	14								
	25	19	33	52								
	26	38	9	47								
	27	24	19	43								
	28	9	28	37								
	29	14	24	38								
	30	14	57	71								
	31	13	38	51								
	32	19	28	47								
	33	24	28	52								
	34	24	37	61								
	35	33	38	71								
	36	14	71	85								
	37	14	85	99								
	38	5	57	62								
	39	14	47	61								
	40	5	28	33								
	41	5	19	24								
42	5	19	24									
43	-	9	9									
44	-	9	9									
		303	697	1000								
N _c (000)												
W _c (tons)		204										
Samples (L)		1										
No. Meas.		64 148 212										
L (cm)		31.6 34.2 33.4										
W (gm)		0.48 0.61 0.57										
Mesh (mm)		88										
Depth (m)		183-366										
AGE GROUP												
Total												
Samples (A)												
No. Aged												

TABLE 13.3. LENGTH AND AGE FREQUENCIES - REDFISH 1972 - Canada (MQ) - 4S

COUNTRY: CANADA (MQ)		GEAR: Otter trawl											
Commercial landings													
Mid-point of length group (cm)	LENGTH GROUP	COMPOSITION OF CATCHES/LANDINGS											
		Aug			Sep			Nov			♂♂	♀♀	Total
		♂♂	♀♀	Total	♂♂	♀♀	Total	♂♂	♀♀	Total			
19		-	-	-	2	1	3	-	-	-			
20		-	-	-	8	3	11	4	4	8			
21		1	-	1	8	4	12	4	11	15			
22		-	-	-	27	11	38	11	8	19			
23		-	-	-	25	22	47	8	30	38			
24		-	-	-	22	15	37	15	11	26			
25		4	-	4	20	23	43	19	19	38			
26		-	-	-	11	15	26	26	15	41			
27		17	-	17	8	7	15	45	26	71			
28		38	1	39	30	9	39	15	30	45			
29		56	5	61	66	26	92	38	38	76			
30		100	35	135	85	34	119	45	30	75			
31		89	39	128	64	51	115	12	45	56			
32		75	82	157	31	76	107	87	60	147			
33		40	125	165	22	76	98	34	60	94			
34		26	93	119	16	51	67	45	42	87			
35		23	59	82	6	48	54	11	30	41			
36		8	19	27	6	29	35	4	23	27			
37		16	16	32	2	18	20	11	34	45			
38		1	16	17	-	10	10	8	-	8			
39		-	3	3	-	5	5	8	-	8			
40		1	10	11	-	5	5	11	-	11			
41		-	1	1	-	1	1	23	-	23			
42		-	1	1	-	1	1	-	-	-			
		495	505	1000	459	541	1000	484	516	1000			
N _c (000)													
W _c (tons)				4103			4223			1197			
Samples (L)		2	2	2	4	4	4	1	1	1			
No. Meas.		198	202	400	419	494	913	128	137	265			
L̄ (cm)		31.1	33.4	32.3	28.6	31.3	30.1	30.8	30.4	30.6			
W̄ (gm)		0.43	0.54	0.49	0.35	0.46	0.41	0.45	0.42	0.43			
Mesh (mm)				88			88			88			
Depth (m)				265-274			183-329			183-329			
	AGE GROUP												
Total													
Samples (A)													
No. Aged													

TABLE 13.7. LENGTH AND AGE FREQUENCIES - REDFISH 1972 - Canada (MQ) - 4W, 4X

COUNTRY: Canada (MQ)			GEAR: Otter trawl									
Commercial landings												
Mid-point of length group (cm)	4W									4X		
	Jun			Aug						Jun		
	♂♂	♀♀	Total	♂♂	♀♀	Total	♂♂	♀♀	Total	♂♂	♀♀	Total
17	-	-	-	2	-	2						
18	-	-	-	-	-	-						
19	3	-	3	5	2	7						
20	21	5	26	23	27	50						
21	47	7	54	47	31	78						
22	77	14	91	102	53	155						
23	84	29	113	93	47	140				14	4	18
24	75	26	101	54	47	101				14	5	19
25	66	24	90	43	52	95				14	5	19
26	66	33	99	38	29	67				20	9	29
27	60	27	87	22	27	49				14	25	39
28	27	25	52	16	21	37				32	23	55
29	24	19	43	19	28	47				38	23	61
30	5	29	34	8	20	28				36	32	68
31	3	30	33	6	8	14				42	23	65
32	-	45	45	6	9	15				29	50	79
33	2	36	38	6	9	15				45	54	99
34	-	37	37	7	13	20				41	34	75
35	-	15	15	5	9	14				29	51	80
36	-	20	20	4	10	14				16	43	59
37	-	12	12	4	7	11				5	25	30
38	-	5	5	5	9	14				2	34	36
39	-	2	2	4	9	13				-	32	32
40	-	-	-	1	7	8				-	34	34
41	-	-	-	1	1	2				-	48	48
42	-	-	-	1	1	2				-	38	38
43	-	-	-	-	1	1				-	11	11
44	-	-	-	-	-	-				-	4	4
45	-	-	-	-	1	1				-	2	2
	560	440	1000	522	478	1000				391	609	1000
N _c (000)												
W _c (tons)	1117			1571						734		
Samples (L)	2	2	2	4	4	4				1	1	1
No. Meas.	247	194	441	600	550	1150				173	269	442
L (cm)	24.3	29.4	26.6	24.7	26.7	25.6				30.6	34.9	33.2
W (gm)	0.21	0.38	0.28	0.23	0.30	0.25				0.42	0.64	0.56
Mesh (mm)	88			88						88		
Depth (m)	110-247			91-475						402-476		
AGE GROUP												
Total												
Samples (A)												
No. Aged												

TABLE 15.1. LENGTH AND AGE FREQUENCIES - REDFISH 1972 - Denmark (G) - 1D

COUNTRY: DENMARK (G)		GEAR: Otter trawl (prawn), Otter trawl (balloon)			
Research catches (not sexed)					
Mid-point of length group (cm)	OT (prawn)		OT (balloon)		
	May	Jun	Jul		
LENGTH GROUP	5	-	-	5	
	6	45	23	90	
	7	58	66	190	
	8	26	48	68	
	9	85	40	70	
	10	275	249	183	
	11	195	203	124	
	12	58	62	34	
	13	59	54	38	
	14	49	69	42	
	15	37	72	34	
	16	30	38	29	
	17	35	37	26	
	18	23	23	18	
	19	9	3	15	
	20	4	2	7	
	21	-	1	6	
	22	4	1	6	
	23	1	-	3	
	24	1	-	2	
25	-	1	3		
26	-	-	1		
27	-	-	2		
28	1	-	-		
29	-	-	1		
31	3	1	-		
32	-	3	1		
33	-	-	1		
34	-	1	-		
35	-	-	1		
36	-	3	-		
37	-	-	-		
38	1	-	-		
>38	1	-	-		
	1000	1000	1000		
N _c (000)					
W _c (tons)					
Samples (L)					
No. Meas.		1055	683	1962	
L̄ (cm)		11.3	11.7	10.6	
W̄ (gm)		-	-	-	
Mesh (mm)		36	36	40	
Depth (m)		300	300	300	
AGE GROUP					
Total					
Samples (A)					
No. Aged					

TABLE 16.1. LENGTH AND AGE FREQUENCIES - REDFISH 1972 - Japan - 4V, 4W, 4X

COUNTRY: JAPAN		GEAR: Otter trawl				
Commercial catches (not sexed)						
Mid-point of length group (cm)	4V			4W	4X	
	Apr	May	Jun	Oct	May	
LENGTH GROUP	13	-	-	-	25	-
	14	-	3	-	41	-
	15	-	3	-	41	5
	16	-	28	-	5	5
	17	-	40	-	-	5
	18	-	50	-	10	9
	19	-	41	-	81	-
	20	-	28	-	71	5
	21	-	41	-	46	-
	22	-	43	-	25	14
	23	13	29	-	71	5
	24	13	32	-	87	14
	25	30	17	-	102	100
	26	34	12	-	127	108
	27	43	15	8	96	71
	28	68	21	14	86	114
	29	64	22	5	81	104
	30	60	35	20	5	52
	31	51	41	25	-	62
	32	68	46	30	-	24
	33	77	55	63	-	95
	34	74	64	68	-	127
	35	56	54	94	-	62
36	51	46	95	-	14	
37	51	52	113	-	5	
38	43	36	130	-	-	
39	51	34	115	-	-	
40	51	35	70	-	-	
41	43	23	45	-	-	
42	34	22	38	-	-	
43	21	20	40	-	-	
44	4	11	27	-	-	
45	-	1	-	-	-	
	1000	1000	1000	1000	1000	
N _c (000)						
W _c (tons)	416	973	346	27	1	
Samples (L)	1	6	4	1	1	
No. Meas.	234	1123	400	197	211	
L (cm)	33.9	30.2	37.4	23.8	29.8	
W (gm)						
Mesh (mm)						
Depth (m)	421	158-426	315-421	325	206	
AGE GROUP						
Total						
Samples (A)						
No. Aged						

TABLE 17.1. LENGTH AND AGE FREQUENCIES - REDFISH 1972 - Poland - 2J, 3K

COUNTRY: POLAND				GEAR: Otter trawl								
Commercial catches												
Mid-point of length group (cm)	2J						3K					
	Mar ¹			Feb ¹			Mar ¹			Mar ²		
	♂♂	♀♀	Total	♂♂	♀♀	Total	♂♂	♀♀	Total	♂♂	♀♀	Total
22	-	1	1	-	-	-	-	-	-	-	-	-
23	1	1	2	-	-	-	1	-	1	-	-	-
24	1	1	2	-	-	-	-	-	-	-	-	-
25	2	-	2	3	-	3	1	-	1	-	-	-
26	3	-	3	2	2	4	1	-	1	1	-	1
27	2	1	3	3	5	8	4	1	5	-	-	-
28	4	1	5	4	4	8	8	1	9	-	-	-
29	3	1	4	5	2	7	11	4	15	-	-	-
30	2	1	3	6	4	10	19	9	28	1	-	1
31	5	1	6	6	5	11	17	15	32	4	-	4
32	10	6	16	13	5	18	24	19	43	5	-	5
33	10	5	15	14	10	24	31	21	52	15	3	18
34	13	10	23	19	10	29	35	23	58	25	2	27
35	31	8	39	33	13	46	51	29	80	27	2	29
36	48	15	63	47	13	60	51	27	78	29	7	36
37	50	18	68	80	33	113	46	23	69	38	3	41
38	50	25	75	73	31	104	41	30	71	47	5	52
39	29	25	54	48	24	72	20	27	47	49	7	56
40	21	28	49	29	33	62	9	26	35	55	20	75
41	8	31	39	11	25	36	3	32	35	49	15	64
42	3	56	59	2	29	31	1	40	41	55	16	71
43	-	69	69	-	33	33	1	50	51	52	18	70
44	-	84	84	-	52	52	-	56	56	52	20	72
45	-	94	94	-	75	75	-	63	63	59	16	75
46	-	79	79	-	56	56	-	50	50	56	16	72
47	-	67	67	-	69	69	-	34	34	54	21	75
48	-	41	41	-	38	38	-	25	25	36	17	53
49	-	25	25	-	17	17	-	12	12	28	10	38
50	-	7	7	-	11	11	-	5	5	15	8	23
51	-	2	2	-	2	2	-	2	2	11	5	16
52	-	1	1	-	1	1	-	1	1	6	3	9
53	-	-	-	-	-	-	-	-	-	2	3	5
54	-	-	-	-	-	-	-	-	-	1	4	5
55	-	-	-	-	-	-	-	-	-	-	2	2
			296			398			625			1000
			704			602			1000			773
			1000			1000			346			1095
N _c (000)			55			629			346			1095
W _c (tons)												
Samples (L)	1	1	1	1	1	1	2	2	2	1	1	1
No. Meas.	386	914	1300	487	736	1223	1021	1687	2708	845	250	1095
L _f (cm)	36.2	43.2	41.3	36.5	42.5	40.2	34.7	41.0	38.7	42.1	44.3	42.5
W (gm)	0.74	1.27	1.07	0.67	1.24	0.98	0.63	1.27	0.94	1.22	1.48	1.30
Mesh (mm)			130			130			130			130
Depth (m)			376-390			316-324			295-440			270-276
AGE GROUP												
	Age frequencies of samples listed on next page											
Total												
Samples (A)												
No. Aged												

¹ *Sebastes mentella*

² *Sebastes marinus*

TABLE 17.1. LENGTH AND AGE FREQUENCIES - REDFISH 1972 - Poland - 2J, 3K (CONT'D)

COUNTRY: POLAND				GEAR: Otter trawl										
Commercial catches														
AGE GROUP	Age group	2J			Feb ¹			3K			Mar ²			
		Mar ¹			♂♂	♀♀	Total	Mar ¹			♂♂	♀♀	Total	
		♂♂	♀♀	Total				♂♂	♀♀	Total				
	5	1	1	2	-	-	-	-	-	-	-	-	-	-
	6	2	2	4	-	-	-	2	-	2	-	-	-	-
	7	2	-	2	1	-	1	8	1	9	-	-	-	-
	8	3	1	4	11	5	16	2	1	3	2	-	-	2
	9	3	3	6	6	6	12	9	4	13	-	3	-	3
	10	5	3	8	11	4	15	15	13	28	4	4	-	8
	11	-	-	-	7	5	12	14	15	29	19	6	-	25
	12	10	13	23	10	20	30	14	19	33	4	2	-	6
	13	5	15	20	12	18	30	33	18	51	5	7	-	12
	14	26	-	26	11	3	14	28	22	50	16	4	-	20
	15	19	26	45	23	38	61	37	45	82	28	11	-	39
	16	34	12	46	32	28	60	45	26	71	34	10	-	44
	17	44	13	57	48	16	64	48	19	67	64	12	-	76
	18	38	26	64	49	8	57	32	24	56	45	16	-	61
	19	47	13	60	88	30	118	37	18	55	70	8	-	78
	20	26	45	71	42	26	68	16	23	39	59	12	-	71
	21	12	55	67	32	45	77	8	18	26	49	10	-	59
	22	9	55	64	15	11	26	10	30	40	52	7	-	59
	23	-	37	37	-	-	-	8	50	58	67	10	-	77
	24	-	69	69	-	36	36	3	49	52	56	11	-	67
	25	-	53	53	-	46	46	-	45	45	66	23	-	89
	26	-	77	77	-	50	50	3	51	54	46	29	-	75
	27	-	56	56	-	49	49	-	41	41	34	5	-	39
	28	-	51	51	-	76	76	-	25	25	25	9	-	34
	29	-	20	20	-	33	33	-	27	27	13	9	-	22
	30	-	17	17	-	15	15	-	22	22	5	6	-	11
	31	-	-	-	-	25	25	-	6	6	-	4	-	4
	32	-	12	12	-	-	-	-	6	6	-	-	-	-
	33	-	7	7	-	-	-	-	5	5	-	4	-	4
	34	-	-	-	-	5	5	-	1	1	-	-	-	-
	35	-	-	-	-	-	-	-	-	-	-	2	-	2
	?	10	22	32	-	4	4	3	1	4	10	3	-	13
	N _c (000)													
	W _c (tons)													
	Samples (L)													
	No. Meas.													
	L (cm)													
	W (gm)													
	Mesh (mm)													
	Depth (m)													
	AGE GROUP													
	Total	296	704	1000	398	602	1000	375	625	1000	773	227	-	1000
	Samples (A)	1	1	1	1	1	1	2	2	2	1	1	-	1
	No. Aged	385	914	1300	487	736	1223	1021	1687	2708	845	250	-	1095

¹ *Sebastes mentella*

² *Sebastes marinus*

TABLE 17.2. LENGTH AND AGE FREQUENCIES - REDFISH 1972 - Poland - 3M

COUNTRY: POLAND			GEAR: Otter trawl										
Commercial catches													
Mid-point of length group (cm)	COMPOSITION OF CATCHES/LANDINGS												
	Mar ¹												
	♂♂	♀♀	Total	♂♂	♀♀	Total	♂♂	♀♀	Total	♂♂	♀♀	Total	
LENGTH GROUP	20		1										
	21		11										
	22		24										
	23		49										
	24		66										
	25		69										
	26		58										
	27		50										
	28		34										
	29		33										
	30		59										
	31		74										
	32		58										
	33		35										
	34		39										
	35		43										
	36		58										
	37		64										
	38		60										
	39		36										
40		38											
41		21											
42		6											
43		6											
44		2											
45		5											
46		1											
			1000										
N _c (000)													
W _c (tons)			840										
Samples (L)			1										
No. Meas.			1014										
L ¹ (cm)			31.3										
W ¹ (gm)			0.46										
Mesh (mm)			130										
Depth (m)			460-540										
AGE GROUP	66	6	83	85	168		51	21	-	-	-		
	65	7	40	27	67		50	22	-	10	10		
	64	8	14	63	77		49	23	-	6	6		
	63	9	34	44	78		48	24	-	6	6		
	62	10	21	40	61		47	25	-	-	-		
	61	11	61	41	102			25+	-	1	1		
	60	12	21	16	37								
	59	13	18	8	26			?	6	13	19		
	58	14	16	42	58								
	57	15	8	71	79								
	56	16	-	38	38								
	55	17	8	68	76								
	54	18	-	46	46								
53	19	-	20	20									
52	20	-	25	25									
Total								330	670	1000			
Samples (A)								335	679	1014			
No. Aged													

¹ *Sebastes mentella*

TABLE 18.2. LENGTH AND AGE FREQUENCIES - REDFISH 1972 - USSR - 3M

COUNTRY: USSR		GEAR: Otter trawl										
Exploratory catches												
Mid-point of length group (cm)	COMPOSITION OF CATCHES/LANDINGS											
	Mar			Jul								
	♂♂	♀♀	Total	♂♂	♀♀	Total	♂♂	♀♀	Total	♂♂	♀♀	Total
LENGTH GROUP	21	4	6	10	-	-	-					
	22	7	11	18	-	-	-					
	23	14	16	30	-	-	-					
	24	16	13	29	-	-	-					
	25	27	34	61	-	2	2					
	26	17	31	48	2	4	6					
	27	19	16	35	4	1	5					
	28	14	22	36	5	4	9					
	29	12	13	25	4	3	7					
	30	25	36	61	11	6	17					
	31	19	15	34	10	6	16					
	32	32	26	58	17	9	26					
	33	33	16	49	21	12	33					
	34	52	33	85	28	15	43					
	35	66	49	115	44	18	62					
	36	47	51	98	53	17	70					
	37	29	58	87	76	33	109					
	38	17	37	54	65	51	116					
	39	8	15	23	49	72	121					
	40	5	16	21	28	99	127					
	41	1	9	10	15	70	85					
	42	1	3	4	6	60	66					
	43	1	2	3	4	35	39					
	44	-	2	2	1	15	16					
	45	-	2	2	-	7	7					
46	-	1	1	-	4	4						
47	-	1	1	-	4	4						
48	-	-	-	-	2	2						
49	-	-	-	-	1	1						
50	-	-	-	-	2	2						
51	-	-	-	-	1	1						
52	-	-	-	-	2	2						
53	-	-	-	-	1	1						
54	-	-	-	-	1	1						
		466	534	1000	443	557	1000					
N _c (000)												
W _c (tons)			6317			9403						
Samples (L)			-			-						
No. Meas.		569	653	1222	1607	2023	3630					
L _c (cm)		31.9	32.4	32.2	36.3	39.2	37.9					
W (gm)		0.46	0.65	0.57	-	-	-					
Mesh (mm)				130			130					
Depth (m)			355-505			265-505						
AGE GROUP	63	9	10	10	20							
	62	10	10	5	25							
	61	11	30	5	35							
	60	12	125	30	155							
	59	13	90	80	170							
	58	14	95	110	205							
	57	15	55	105	160							
	56	16	25	95	120							
	55	17	10	30	40							
	54	18	-	30	30							
	53	19	-	25	25							
	52	20	-	10	10							
51	21	-	10	10								
50	22	-	5	5								
Total		450 ¹	550 ¹	1000 ¹								
Samples (A)		1	1	1								
No. Aged		90	110	200								

¹ Age frequencies pertain to the number samples for age.

TABLE 18.3. LENGTH AND AGE FREQUENCIES - REDFISH 1972 - USSR - 30

COUNTRY: USSR		GEAR: Otter trawl										
Exploratory catches												
Mid-point of length group (cm)	COMPOSITION OF CATCHES/LANDINGS											
	May											
	♂♂	♀♀	Total	♂♂	♀♀	Total	♂♂	♀♀	Total	♂♂	♀♀	Total
LENGTH GROUP	19	4	2	6								
	20	2	5	7								
	21	22	17	39								
	22	46	62	108								
	23	41	52	93								
	24	65	90	155								
	25	79	90	169								
	26	69	66	135								
	27	57	64	121								
	28	19	50	69								
	29	18	26	44								
	30	8	16	24								
	31	3	7	10								
	32	2	2	4								
	33	2	4	6								
	34	1	2	3								
	35	-	2	2								
	36	2	-	2								
	37	-	1	1								
	38	-	1	1								
39	-	-	-									
40	-	-	-									
41	-	1	1									
		440	560	1000								
N _c (000)												
W _c (tons)		6286										
Samples (L)												
No. Meas.		569	725	1294								
L̄ (cm)		25.1	25.3	25.2								
w̄ (gm)												
Mesh (mm)		130										
Depth (m)		220-410										
AGE GROUP	66	6	15	30	45							
	65	7	75	60	135							
	64	8	116	106	222							
	63	9	146	106	252							
	62	10	95	91	186							
	61	11	15	60	75							
	60	12	20	55	75							
	59	13	-	5	5							
58	14	-	5	5								
Total		482	518	1000								
Samples (A)		1	1	1								
No. Aged		96 ¹	103 ¹	199 ¹								

¹ Age frequencies pertain to the number samples for age.

TABLE 19.1. LENGTH AND AGE FREQUENCIES - REDFISH 1972 - USA - 4RST

COUNTRY: USA			GEAR: Otter trawl											
Commercial landings														
Mid-point of length group (cm)	COMPOSITION OF CATCHES/LANDINGS													
	Aug			Sep			Oct			Nov				
	♂♂	♀♀	Total	♂♂	♀♀	Total	♂♂	♀♀	Total	♂♂	♀♀	Total		
LENGTH GROUP	25	-	-	-	-	-	-	-	5	-	5	20	-	20
	26	-	-	-	-	-	-	-	5	-	5	30	-	30
	27	-	-	-	7	-	7	-	-	-	-	50	-	50
	28	20	-	20	50	-	50	15	-	15	70	-	70	
	29	100	10	110	113	17	130	70	5	75	90	10	100	
	30	90	40	130	83	33	116	145	35	180	60	50	110	
	31	130	40	170	131	63	194	140	45	185	40	50	90	
	32	90	150	240	104	87	191	65	85	150	30	90	120	
	33	50	50	100	50	87	137	40	100	140	-	160	160	
	34	30	90	120	33	60	93	25	85	110	-	90	90	
	35	10	40	50	20	20	40	25	40	65	10	100	110	
	36	20	20	40	3	7	10	10	25	35	10	30	40	
	37	-	10	10	3	10	13	5	20	25	-	10	10	
	38	-	10	10	3	7	10	5	-	5	-	-	-	
	39	-	-	-	3	3	6	-	5	5	-	-	-	
	40	-	-	-	-	3	3	-	-	-	-	-	-	
		540	460	1000	603	397	1000	555	445	1000	410	590	1000	
N _c (000)		233			516			138			69			
W _c (tons)														
Samples (L)		1	1	1	3	3	3	2	2	2	1	1	1	
No. Meas.		54	46	100	181	119	300	111	89	200	41	59	100	
L _r (cm)		31.1	32.9	31.9	31.0	32.6	31.6	31.1	33.1	32.0	29.1	33.1	31.4	
W _r (gm)		0.47	0.54	0.50	0.46	0.54	0.49	0.47	0.56	0.51	0.39	0.56	0.49	
Mesh (mm)		64			64			64			64			
Depth (m)		276-366			112-283			185-274			112-274			
AGE GROUP														
Total														
Samples (A)														
No. Aged														

TABLE 19.2. LENGTH AND AGE FREQUENCIES - REDFISH 1972 - USA - 4V

COUNTRY: USA		GEAR: Otter trawl										
Commercial landings												
Mid-point of length group (cm)	COMPOSITION OF CATCHES/LANDINGS											
	Aug											
	♂♂	♀♀	Total	♂♂	♀♀	Total	♂♂	♀♀	Total	♂♂	♀♀	Total
LENGTH GROUP	28	-	10	10								
	29	80	20	100								
	30	200	30	230								
	31	100	90	190								
	32	70	100	170								
	33	50	90	140								
	34	20	50	70								
	35	30	10	40								
	36	10	20	30								
	37	-	10	10								
	38	-	-	-								
	39	-	-	-								
	40	-	10	10								
		560	440	1000								
N _c (000)												
W _c (tons)		107										
Samples (L)		1										
No. Meas.		56	44	100								
L (cm)		31.1	32.4	31.7								
W (gm)		0.46	0.53	0.49								
Mesh (mm)		64										
Depth (m)		112-274										
AGE GROUP												
Total												
Samples (A)												
No. Aged												

TABLE 19.3. LENGTH AND AGE FREQUENCIES - REDFISH 1972 - USA - 4W

COUNTRY: USA		GEAR: Otter trawl												
Commercial landings														
Mid-point of length group (cm)	LENGTH GROUP	COMPOSITION OF CATCHES/LANDINGS												
		Mar			Apr			May			Jun			
		♂♂	♀♀	Total	♂♂	♀♀	Total	♂♂	♀♀	Total	♂♂	♀♀	Total	
16		-	-	-	-	-	-	-	-	-	-	15	15	
17		-	-	-	-	-	-	-	-	-	-	5	5	
18		-	-	-	1	-	1	-	-	-	-	5	35	40
19		-	-	-	4	-	4	-	-	-	-	15	15	30
20		-	-	-	6	1	7	-	-	-	-	10	45	55
21		14	3	17	14	2	16	3	-	3	15	25	40	
22		36	7	43	23	11	34	24	4	28	35	35	70	
23		24	3	27	52	12	64	39	11	50	40	45	85	
24		54	23	77	73	37	110	61	26	87	35	40	75	
25		56	20	76	82	54	136	76	51	127	55	65	120	
26		110	40	150	67	79	146	72	71	143	70	40	110	
27		43	77	120	36	92	128	52	61	113	50	45	95	
28		33	111	144	21	92	113	56	57	113	15	20	35	
29		17	150	167	8	61	69	27	54	81	35	-	35	
30		3	73	76	6	63	69	19	56	75	15	10	25	
31		-	53	53	2	25	27	8	50	58	10	10	20	
32		-	20	20	1	33	34	3	40	43	10	5	15	
33		-	23	23	2	9	11	1	25	26	-	5	5	
34		-	7	7	1	5	6	3	20	23	-	-	-	
35		-	-	-	4	-	4	1	13	14	-	5	5	
36		-	-	-	2	1	3	1	4	5	-	-	-	
37		-	-	-	2	3	5	3	4	7	-	10	10	
38		-	-	-	1	3	4	-	2	2	-	10	10	
39		-	-	-	2	2	4	1	1	2	-	15	15	
40		-	-	-	-	3	3	-	-	-	-	5	5	
41		-	-	-	-	1	1	-	-	-	-	35	35	
42		-	-	-	-	1	1	-	-	-	-	5	5	
43		-	-	-	-	-	-	-	-	-	-	15	15	
44		-	-	-	-	-	-	-	-	-	-	10	10	
45		-	-	-	-	-	-	-	-	-	-	15	15	
		390	610	1000	410	590	1000	450	550	1000	415	585	1000	
N _c (000)														
W _c (tons)		575												
Samples (L)		3	3	3	10	10	10	11	11	11	2	2	2	
No. Meas.		117	183	300	410	590	1000	495	605	1100	83	117	200	
L _̄ (cm)		25.3	28.5	27.3	25.2	27.9	26.8	26.1	28.7	27.5	25.3	27.2	26.4	
W̄ (gm)		0.26	0.36	0.32	0.26	0.34	0.31	0.29	0.38	0.34	0.26	0.39	0.34	
Mesh (mm)		64												
Depth (m)		112-274			185-548				112-274			112-183		
AGE GROUP														
Total														
Samples (A)														
No. Aged														

TABLE 19.3. LENGTH AND AGE FREQUENCIES - REDFISH 1972 - USA - 4W (CONT'D)

COUNTRY: USA			GEAR: Otter trawl										
Commercial landings													
Mid-point of length group (cm)	COMPOSITION OF CATCHES/LANDINGS												
	Nov			Dec									
	♂♂	♀♀	Total	♂♂	♀♀	Total	♂♂	♀♀	Total	♂♂	♀♀	Total	
LENGTH GROUP	19	12	-	12	-	-	-						
	20	2	-	2	-	-	-						
	21	22	-	22	5	-	5						
	22	44	8	52	10	-	10						
	23	98	8	106	60	5	65						
	24	88	44	132	70	30	100						
	25	116	58	174	145	105	250						
	26	86	84	170	55	90	145						
	27	64	82	146	40	100	140						
	28	26	46	72	10	80	90						
	29	8	44	52	5	90	95						
	30	4	32	36	-	40	40						
	31	-	12	12	-	35	35						
	32	-	6	6	-	20	20						
	33	-	2	2	-	5	5						
	34	-	2	2	-	-	-						
	35	-	2	2	-	-	-						
		570	430	1000	400	600	1000						
N _c (000)													
W _c (tons)		625			444								
Samples (L)		5	5	5	2	2	2						
No. Meas.		285	215	500	80	120	200						
L _c (cm)		24.6	26.9	25.6	24.9	27.4	26.4						
W _c (gm)		0.24	0.31	0.27	0.24	0.32	0.29						
Mesh (mm)		64			64								
Depth (m)		112-183			112-183								
AGE GROUP													
Total													
Samples (A)													
No. Aged													

TABLE 19.4. LENGTH AND AGE FREQUENCIES - REDFISH 1972 - USA - 4X

COUNTRY: USA			GEAR: Otter trawl										
Commercial landings													
Mid-point of length group (cm)	COMPOSITION OF CATCHES/LANDINGS												
	Jan			Feb			May			Jun			
	♂♂	♀♀	Total	♂♂	♀♀	Total	♂♂	♀♀	Total	♂♂	♀♀	Total	
LENGTH GROUP	17	-	-	-	2	-	2	-	-	-	-	-	
	18	-	-	-	4	-	4	-	-	-	-	-	
	19	-	-	-	4	-	4	-	-	-	-	-	
	20	1	-	1	-	-	-	-	-	-	-	-	
	21	23	1	24	18	4	22	-	15	15	6	6	
	22	51	17	68	30	6	36	5	25	30	13	13	
	23	91	31	122	58	14	72	35	-	35	38	6	44
	24	115	63	178	92	40	132	85	40	125	91	19	110
	25	79	96	175	104	94	198	80	40	120	122	64	186
	26	50	122	172	56	80	136	85	35	120	64	64	128
	27	29	91	120	46	88	136	40	30	70	13	96	109
	28	11	57	68	10	114	124	25	100	125	6	135	141
	29	1	36	37	2	64	66	20	60	80	-	109	109
	30	1	14	15	-	40	40	-	150	150	-	71	71
	31	1	11	12	-	20	20	-	60	60	-	38	38
	32	-	1	1	-	8	8	-	35	35	-	26	26
	33	-	6	6	-	-	-	-	20	20	-	6	6
	34	-	1	1	-	-	-	-	5	5	-	13	13
	35	-	-	-	-	-	-	-	5	5	-	-	-
36	-	-	-	-	-	-	-	5	5	-	-	-	
	453	547	1000	428	572	1000	375	625	1000	353	647	1000	
N _c (000)													
W _c (tons)			1584			1067			591			1063	
Samples (L)	7	7	7	5	5	5	2	2	2	2	2	2	
No. Meas.	317	383	700	214	286	500	75	125	200	53	97	150	
L (cm)	24.2	26.2	25.3	24.4	27.0	25.9	25.4	28.4	27.3	24.6	28.1	26.7	
W (gm)	0.22	0.29	0.25	0.23	0.31	0.28	0.26	0.36	0.33	0.24	0.35	0.31	
Mesh (mm)			64			64			64			64	
Depth (m)			112-183			112-183			112-183			112-183	
AGE GROUP													
Total													
Samples (A)													
No. Aged													

TABLE 19.4. LENGTH AND AGE FREQUENCIES - REDFISH 1972 - USA - 4X (CONT'D)

COUNTRY: USA		GEAR: Otter trawl										
Commercial landings												
Mid-point of length group (cm)	COMPOSITION OF CATCHES/LANDINGS											
	Dec											
	♂♂	♀♀	Total	♂♂	♀♀	Total	♂♂	♀♀	Total	♂♂	♀♀	Total
LENGTH GROUP	21	10	-	10								
	22	30	-	30								
	23	80	-	80								
	24	100	-	100								
	25	80	20	100								
	26	60	110	170								
	27	50	70	120								
	28	10	140	150								
	29	-	110	110								
	30	-	40	40								
	31	10	40	50								
	32	-	20	20								
	33	-	10	10								
	34	-	-	-								
	35	-	-	-								
	36	-	-	-								
	37	-	10	10								
		430	570	1000								
N _c (000)												
W _c (tons)		257										
Samples (L)												
No. Meas.		43	57	100								
L _w (cm)		24.7	28.3	26.8								
W _w (gm)		0.24	0.36	0.30								
Mesh (mm)		64										
Depth (m)		112-183										
AGE GROUP												
Total												
Samples (A)												
No. Aged												

TABLE 20.1. LENGTH AND AGE FREQUENCIES - SILVER HAKE 1972 - Japan - 4W, 4X

COUNTRY: JAPAN		GEAR: Otter trawl			
Commercial catches					
Mid-point of length group (cm)	(2 cm)	4W		4X	
		May		May	
14.5		5		3	
16.5		20		5	
18.5		5		15	
20.5		-		3	
22.5		5		5	
24.5		30		28	
26.5		255		73	
28.5		355		98	
30.5		130		158	
32.5		125		149	
34.5		40		113	
36.5		25		100	
38.5		-		73	
40.5		-		40	
42.5		5		38	
44.5		-		20	
46.5		-		30	
48.5		-		13	
50.5		-		15	
52.5		-		13	
54.5		-		3	
56.5		-		5	
		1000		1000	
N _c (000)					
W _c (tons)		6		52	
Samples (L)		1		2	
No. Meas.		200		400	
L̄ (cm)		29.2		34.7	
W̄ (gm)		-		-	
Mesh (mm)		-		-	
Depth (m)		210		180-301	
AGE GROUP					
Total					
Samples (A)					
No. Aged					

TABLE 21.1. LENGTH AND AGE FREQUENCIES - SILVER HAKE 1972 - USSR - 4W

COUNTRY: USSR			GEAR: Otter trawl									
Commercial catches												
Mid-point of length group (cm)	COMPOSITION OF CATCHES/LANDINGS											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
(2 cm)												
12.5			-	-	-	-	-	2	-	-	-	-
14.5			-	22	-	-	7	6	2	-	-	-
16.5			-	29	7	1	28	20	16	3	-	-
18.5			-	22	12	1	68	68	85	33	6	-
20.5			5	7	8	-	85	106	202	145	48	-
22.5			48	21	4	2	74	88	153	207	307	-
24.5			254	110	47	17	139	173	154	167	284	-
26.5			340	200	153	128	212	272	190	91	101	-
28.5			87	198	232	215	192	162	119	116	107	-
30.5			136	204	252	244	112	70	50	174	106	-
32.5			88	119	175	204	43	21	22	47	22	-
34.5			34	55	84	127	22	6	6	11	13	-
36.5			8	9	19	34	9	2	1	6	3	-
38.5			-	3	6	8	4	1	-	-	2	-
40.5			-	1	1	4	2	1	-	-	1	-
42.5			-	-	-	1	1	1	-	-	-	-
44.5			-	-	-	1	1	-	-	-	-	-
46.5			-	-	-	-	-	-	-	-	-	-
48.5			-	-	-	1	1	1	-	-	-	-
50.5			-	-	-	11	-	-	-	-	-	-
52.5			-	-	-	-	-	-	-	-	-	-
54.5			-	-	-	1	-	-	-	-	-	-
			1000	1000	1000	1000	1000	1000	1000	1000	1000	
N _c (000)												
W _c (tons)			7171	11445	19798	16336	24043	14610	11481	3213	448	
Samples (L)			4	18	15	23	146	150	269	288	8	
No. Meas.			800	3598	3002	4645	29199	29933	53801	57548	1600	
W _L (cm)			27.4	27.9	29.6	30.9	26.0	25.2	24.1	25.5	25.3	
W _L (gm)			0.140	0.132	0.193	0.200	0.164	0.150	0.130	0.128	0.122	
Mesh (mm)			40	40	40	40	40	40	40	40	40	
Depth (m)			130-165	10-280	130-355	110-140	35-220	25-130	20-130	20-165	100-200	
AGE GROUP	71	1		74	19	2						
	70	2		174	92	49						
	69	3		385	386	352						
	68	4		213	271	282						
	67	5		131	191	239						
	66	6		21	35	54						
	65	7		2	5	8						
	64	8		-	1	2						
	63	9		-	-	1						
	62	10		-	-	11						
Total			1000	1000	1000	1000						
Samples (A)			3		4							
No. Aged			260		389							

TABLE 21.2. LENGTH AND AGE FREQUENCIES - SILVER HAKE 1972 - USSR - 4X

COUNTRY: USSR		GEAR: Otter trawl										
Commercial catches												
Mid-point of length group (cm)	COMPOSITION OF CATCHES/LANDINGS											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
LENGTH GROUP (2 cm)	16.5				-		2	1	-	-	-	-
	18.5				-		2	6	-	-	-	-
	20.5				-		111	91	40	1	-	-
	22.5				-		352	574	262	11	-	-
	24.5				40		271	278	469	154	15	-
	26.5				75		91	45	170	529	310	-
	28.5				135		26	2	19	212	410	-
	30.5				250		36	1	8	48	175	-
	32.5				240		31	1	14	23	50	-
	34.5				205		34	1	4	11	30	-
	36.5				30		24	-	4	5	-	-
	38.5				25		5	-	8	3	10	-
	40.5				-		2	-	1	2	-	-
	42.5				-		7	-	-	1	-	-
	44.5				-		1	-	-	-	-	-
	46.5				-		2	-	1	-	-	-
	48.5				-		-	-	-	-	-	-
50.5				-		2	-	-	-	-	-	
52.5				-		1	-	-	-	-	-	
				1000			1000	1000	1000	1000	1000	
N _c (000)												
W _c (tons)				684			2382	-	-	-	4	
Samples (L)				1			4	379	74	19	1	
No. Meas.				200			816	75785	14838	3800	200	
L ₁ (cm)				31.4			25.1	23.1	24.6	27.1	28.6	
W ₁ (gm)				0.157			0.121	0.060	0.073	0.139	0.168	
Mesh (mm)				40			40	40	40	40	40	
Depth (m)				225			145-210	120-255	165-210	165-210	180	
AGE GROUP												
Total												
Samples (A)												
No. Aged												

TABLE 21.3. LENGTH AND AGE FREQUENCIES - SILVER HAKE 1972 - USSR - 5Ze

COUNTRY: USSR			GEAR: Otter trawl										
Commercial catches													
Mid-point of length group (cm)		COMPOSITION OF CATCHES/LANDINGS											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
LENGTH GROUP	(2 cm)												
	12.5			-	-	-	-	-	-	1	-	-	-
	14.5			-	-	2	-	-	-	-	-	-	-
	16.5			-	-	9	-	2	1	3	-	-	-
	18.5			-	-	20	-	25	18	17	-	-	-
	20.5			-	-	34	-	99	123	96	3	1	-
	22.5			-	-	15	-	121	398	261	9	18	24
	24.5			3	-	7	-	48	250	323	70	141	161
	26.5			43	-	35	4	15	75	146	241	394	362
	28.5			129	34	116	73	68	23	34	172	234	242
	30.5			124	51	273	288	274	28	42	148	78	107
	32.5			107	123	223	270	223	35	37	115	41	47
	34.5			69	167	138	191	66	24	17	93	30	16
	36.5			64	74	66	90	25	6	10	52	20	18
	38.5			86	69	29	46	21	6	4	13	13	11
	40.5			64	51	16	20	6	8	2	21	12	5
	42.5			95	56	7	7	3	3	2	8	6	1
	44.5			60	71	5	4	2	-	2	18	6	2
	46.5			36	100	2	3	2	1	1	16	2	1
	48.5			39	78	1	3	-	-	2	13	1	-
	50.5			17	59	2	1	-	1	-	7	1	1
	52.5			43	10	-	-	-	-	-	1	1	-
	54.5			21	22	-	-	-	-	-	-	1	2
	56.5			-	7	-	-	-	-	-	-	-	-
58.5			-	5	-	-	-	-	-	-	-	-	
60.5			-	10	-	-	-	-	-	-	-	-	
62.5			-	3	-	-	-	-	-	-	-	-	
64.5			-	10	-	-	-	-	-	-	-	-	
			1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
N _c (000)													
W _c (tons)			3980	1019	11981	20287	13899	8811	3595	2307	2356	5406	
Samples (L)			3	2	23	8	215	929	1810	73	44	4	
No. Meas.			582	409	4546	1537	43098	155632	362031	14529	8751	850	
L (cm)			37.3	40.5	31.3	33.0	24.4	25.0	30.9	30.9	28.3	27.9	
W (gm)			0.400	0.528	0.246	0.306	0.113	0.110	0.220	0.220	0.202	0.146	
Mesh (mm)			40	40	40	40	40	40	40	40	40	40	
Depth (m)			95-350	830-350	75-255	100-145	45-155	35-130	45-185	55-165	55-185	80-90	
AGE GROUP	71	1			67	-							
	70	2			49	-							
	69	3		143	12	48	31						
	68	4		222	211	544	584						
	67	5		153	182	183	239						
	66	6		88	103	65	92						
	65	7		55	110	33	41						
	64	8		93	179	8	10						
	63	9		53	142	3	3						
	62	10		48	29	-	-						
	10+		45	32	-	-							
Total			1000	1000	1000	1000							
Samples (A)			2		2								
No. Aged			181		200								

TABLE 21.4. LENGTH AND AGE FREQUENCIES - SILVER HAKE 1972 - USSR - 5Zw

COUNTRY: USSR			GEAR: Otter trawl											
Commercial catches														
Mid-point of length group (cm)	COMPOSITION OF CATCHES/LANDINGS													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
(2 cm)														
14.5			-					1	2	-	-			
16.5			-					30	19	8	7			
18.5			-					78	69	41	44			
20.5			-					117	144	172	177			
22.5			-					104	110	102	116			
24.5			9					131	145	58	18			
26.5			53					89	111	61	150			
28.5			259					106	91	133	140			
30.5			357					148	137	212	128			
32.5			200					98	62	96	63			
34.5			91					46	46	55	63			
36.5			31					29	31	17	37			
38.5			-					11	12	18	28			
40.5			-					7	10	10	21			
42.5			-					3	6	1	2			
44.5			-					1	2	8	2			
46.5			-					1	1	8	2			
48.5			-					-	1	-	2			
50.5			-					-	1	-	-			
			1000					1000	1000	1000	1000			
N _c (000)														
W _c (tons)			502					6874	2317	89	207			
Samples (L)			2					13	14	22	2			
No. Meas.			320					2590	2790	4473	430			
W _L (cm)			30.7					26.5	26.4	27.5	27.3			
W (gm)			0.189					0.130	0.150	0.158	0.157			
Mesh (mm)			40					40	40	40	40			
Depth (m)			145					35-75	55-75	35-75	55-65			
AGE GROUP	69	3	205											
	68	4	547											
	67	5	207											
	66	6	41											
Total			1000											
Samples (A)			1											
No. Aged			79 ¹											

¹ Age-length key for SA 6 used here.

TABLE 22.1. LENGTH AND AGE FREQUENCIES - SILVER HAKE 1972 - USA - 5Y

COUNTRY: USA			GEAR: Otter trawl									
Commercial landings												
Mid-point of length group (cm)	COMPOSITION OF CATCHES/LANDINGS											
	Jul			Aug			Oct			Nov		
	♂♂	♀♀	Total	♂♂	♀♀	Total	♂♂	♀♀	Total	♂♂	♀♀	Total
(2 cm)												
16.5	-	-	-	-	-	-	18	-	18	-	-	-
18.5	2	4	6	-	3	3	26	-	26	9	-	9
20.5	11	9	20	-	11	11	122	-	122	9	37	46
22.5	13	32	45	3	22	25	35	9	44	74	120	194
24.5	23	30	53	8	25	33	53	-	53	157	185	342
26.5	28	13	41	17	64	81	53	61	114	46	84	130
28.5	86	4	90	42	50	92	26	35	61	19	65	84
30.5	133	30	163	39	5	45	26	26	52	19	28	47
32.5	68	81	149	48	6	54	53	62	115	28	19	47
34.5	45	70	115	98	11	109	61	96	157	-	9	9
36.5	41	49	90	76	90	166	18	35	53	19	19	38
38.5	6	38	44	34	73	107	9	44	53	9	9	18
40.5	4	39	43	8	76	84	-	26	26	-	9	9
42.5	-	38	38	2	48	50	-	18	18	-	9	9
44.5	-	28	28	-	28	28	-	26	26	-	9	9
45.5	-	25	26	-	17	17	-	26	26	-	-	-
48.5	-	19	19	-	22	22	-	18	18	-	9	9
50.5	-	6	6	-	14	14	-	-	-	-	-	-
52.5	-	6	6	-	20	20	-	-	-	-	-	-
54.5	-	9	9	-	11	11	-	9	9	-	-	-
56.5	-	8	8	-	11	11	-	-	-	-	-	-
58.5	-	2	2	-	8	8	-	9	9	-	-	-
60.5	-	-	-	-	3	3	-	-	-	-	-	-
62.5	-	-	-	-	6	6	-	-	-	-	-	-
	460	540	1000	375	625	1000	500	500	1000	389	611	1000
N _c (000)			866			1040			1068			1010
W _c (tons)												
Samples (L)	5	5	5	4	4	4	1	1	1	1	1	1
No. Meas.	245	289	534	134	224	358	57	57	114	42	66	108
L _r (cm)	30.5	36.3	33.6	29.4	33.7	32.1	26.2	35.9	31.1	26.1	27.0	26.6
W (gm)	0.20	0.36	0.29	0.16	0.29	0.24	0.13	0.32	0.23	0.12	0.11	0.11
Mesh (mm)			64			64			64			64
Depth (m)			33-73			51-82			91			55
AGE GROUP												
Total												
Samples (A)												
No. Aged												

TABLE 22.2. LENGTH AND AGE FREQUENCIES - SILVER HAKE 1972 - USA - 5Ze

COUNTRY: USA				GEAR: Otter trawl								
Commercial landings												
Mid-point of length group (cm)	COMPOSITION OF CATCHES/LANDINGS											
	May			Jun			Aug					
	♂♂	♀♀	Total	♂♂	♀♀	Total	♂♂	♀♀	Total	♂♂	♀♀	Total
(2 cm)												
20.5	-	-	-	-	-	-	28	-	28			
22.5	-	-	-	-	-	-	28	-	28			
24.5	-	-	-	7	-	7	37	-	37			
26.5	-	9	9	21	35	56	20	9	29			
28.5	18	37	55	184	142	326	75	19	94			
30.5	64	73	137	99	192	291	121	47	168			
32.5	92	101	193	23	135	158	150	28	178			
34.5	138	73	211	28	64	92	37	121	158			
36.5	92	101	192	7	-	7	-	150	150			
38.5	55	55	110	-	28	28	9	56	65			
40.5	-	46	46	-	14	14	-	28	28			
42.5	-	9	9	-	-	-	-	-	-			
44.5	-	28	28	-	7	7	-	37	37			
46.5	-	9	9	-	7	7	-	-	-			
48.5	-	-	-	-	-	-	-	-	-			
50.5	-	-	-	-	-	-	-	-	-			
52.5	-	-	-	-	7	7	-	-	-			
	459	541	1000	369	631	1000	505	495	1000			
N _c (000)												
W _c (tons)			2			27			192			
Samples (L)	1	1	1	1	1	1	1	1	1			
No. Meas.	50	59	109	52	89	141	54	53	107			
L (cm)	30.2	35.2	34.7	29.7	31.8	31.0	29.7	35.8	32.7			
W (gm)	0.27	0.33	0.30	0.17	0.24	0.21	0.16	0.29	0.23			
Mesh (mm)			64			64			64			
Depth (m)			234			124			134			
AGE GROUP												
Total												
Samples (A)												
No. Aged												

TABLE 23.1. LENGTH AND AGE FREQUENCIES - RED HAKE 1972 - USSR - 5Ze

COUNTRY: USSR		GEAR: Otter trawl										
Commercial catches												
Mid-point of length group (cm)	COMPOSITION OF CATCHES/LANDINGS											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
(2 cm)												
12.5			-	-	-	-	-	-	2	-	1	-
14.5			-	-	-	-	-	19	14	-	3	-
16.5			-	-	-	-	2	70	46	-	2	-
18.5			-	-	-	-	7	91	49	1	15	-
20.5			-	-	-	-	16	138	73	18	46	-
22.5			-	-	12	-	38	170	69	13	52	7
24.5			-	-	12	-	36	80	35	25	88	14
26.5			6	3	12	1	25	59	22	47	94	49
28.5			47	45	21	29	51	35	26	36	91	99
30.5			179	179	95	254	213	72	137	133	138	184
32.5			325	300	161	326	263	68	214	198	149	219
34.5			215	188	196	222	179	78	154	298	126	208
36.5			109	141	189	99	94	48	93	121	88	118
38.5			56	75	109	39	40	27	32	83	49	47
40.5			28	30	67	10	18	23	18	14	26	26
42.5			11	13	35	10	7	11	10	12	13	14
44.5			10	12	30	4	5	7	3	1	8	11
46.5			9	10	21	2	3	3	-	-	6	4
48.5			3	2	12	4	3	1	2	-	3	-
50.5			1	2	16	-	-	-	-	-	2	-
52.5			-	-	5	-	-	-	1	-	-	-
54.5			-	-	2	-	-	-	-	-	-	-
56.5			-	-	-	-	-	-	-	-	-	-
58.5			-	-	5	-	-	-	-	-	-	-
			1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
N _c (000)												
W _c (tons)			324	323	396	8318	5244	6157	5258	4619	2630	4558
Samples (L)			5	3	2	4	25	82	120	88	18	8
No. Meas.			1000	600	429	800	5057	16387	23912	17617	3560	1600
L (cm)			33.8	34.0	36.0	33.3	32.1	26.1	29.6	33.1	30.7	33.0
W (gm)			0.245	0.244	0.346	0.223	0.237	0.150	0.210	0.253	0.214	0.230
Mesh (mm)			90-100	90-110	70-205	70-105	50-170	45-170	50-105	60-110	55-115	55-95
Depth (m)			40	40	40	40	40	40	40	40	40	40
AGE GROUP	70	2	15	30	49	18	118	603	302	93	281	59
	69	3	371	310	152	393	329	147	221	232	285	349
	68	4	371	291	216	321	318	103	264	345	197	303
	67	5	152	142	173	140	114	59	103	200	109	148
	66	6	61	115	159	72	63	36	59	102	70	86
	65	7	10	72	133	39	32	23	29	26	39	55
	64	8	20	15	58	7	21	24	18	2	19	-
	62	9	-	25	60	10	5	5	4	-	-	-
Total			1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Samples (A)			2		6		5				1	
No. Aged			181		589		433				94	

TABLE 23.2. LENGTH AND AGE FREQUENCIES - RED HAKE 1972 - USSR - 5Zw

COUNTRY: USSR			GEAR: Otter trawl														
Commercial catches																	
Mid-point of length group (cm)			COMPOSITION OF CATCHES/LANDINGS														
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
LENGTH GROUP	(2 cm)																
	16.5		-		-					2	2		-				
	18.5		-		-					8	7		10				
	20.5		-		-					24	33		19				
	22.5		-		-					64	66		70				
	24.5		31		16					69	108		130				
	26.5		70		39					144	133		187				
	28.5		352		129					170	157		107				
	30.5		336		258					208	197		171				
	32.5		102		194					125	127		143				
	34.5		62		204					94	87		71				
	36.5		31		100					50	41		53				
	38.5		16		32					23	19		16				
	40.5		-		10					11	10		10				
	42.5		-		6					5	8		8				
	44.5		-		3					2	3		3				
	46.5		-		6					1	1		2				
	48.5		-		-					-	-		-				
50.5		-		-					-	1		-					
52.5		-		-					-	-		-					
54.5		-		-					-	-		-					
56.5		-		3					-	-		-					
			1000		1000					1000	1000		1000				
N _c (000)																	
W _c (tons)			585			190			7984			4279			881		
Samples (L)			1			2			8			30			7		
No. Meas.			128			310			1600			6000			1468		
L _c (cm)			30.1			32.4			29.6			29.3			29.2		
W _c (gm)			0.160			0.220			0.177			0.174			0.163		
Mesh (mm)			40			40			40			40			40		
Depth (m)			80			75			40-65			45-75			65-75		
AGE GROUP	70	2								286	325						
	69	3								433	409						
	68	4								156	151						
	67	5								75	65						
	66	6								21	18						
	65	7								19	21						
	64	8								10	11						
Total												1000			1000		
Samples (A)															2		
No. Aged															193		

TABLE 23.3. LENGTH AND AGE FREQUENCIES - USSA - SA 6

COUNTRY: USSR			GEAR: Otter trawl									
Commercial catches												
Mid-point of length group (cm)	COMPOSITION OF CATCHES/LANDINGS											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
LENGTH GROUP (2 cm)	16.5	1			-				-	-	1	
	18.5	6			-				-	1	9	
	20.5	33			2				-	60	67	
	22.5	109			14				10	107	136	
	24.5	230			37				38	138	158	
	26.5	253				105			100	142	128	
	28.5	155				195			160	153	123	
	30.5	97				198			287	174	127	
	32.5	58				189			195	68	98	
	34.5	27				116			85	69	59	
	36.5	15				83			65	23	38	
	38.5	8				28			40	26	23	
	40.5	6				21			5	13	13	
	42.5	2				6			15	13	8	
	44.5	-				4			-	1	4	
	46.5	-				2			-	11	3	
	48.5	-				-			-	1	3	
	50.5	-				-			-	-	1	
52.5	-				-			-	-	1		
		1000				1000			1000	1000	1000	
N _c (000)												
W _c (tons)		4034				1074			-	4272	2422	
Samples (L)		7				9			2	41	19	
No. Meas.		1378				1832			400	8162	3730	
W _l (cm)		27.0				31.3			31.1	28.6	28.2	
W _l (gm)		0.126				0.224			0.214	0.172	0.156	
Mesh (mm)		40				40			40	40	40	
Depth (m)		60-80				55-75			45	65-85	65-80	
AGE GROUP	70	2	565						145	419	470	
	69	3	309						466	390	330	
	68	4	83						228	103	109	
	67	5	24						47	23	37	
	66	6	19						67	27	23	
	65	7	-						20	38	30	
	64	8	-						27	-	1	
Total		1000							1000	1000	1000	
Samples (A)			3						2		1	
No. Aged			263						193		96	

TABLE 24.2. LENGTH AND AGE FREQUENCIES - RED HAKE 1972 - USA - SA 6

COUNTRY: USA		GEAR: Otter trawl												
Commercial landings (Industrial)														
Mid-point of length group (cm)		COMPOSITION OF CATCHES/LANDINGS												
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
LENGTH GROUP	(2 cm)													
	12.5				9	-							-	-
	14.5				47	2							-	21
	16.5				205	20							-	-
	18.5				190	39							-	-
	20.5				215	49							17	21
	22.5				133	83							98	63
	24.5				27	94							51	85
	26.5				-	144							118	63
	28.5				37	209							68	42
	30.5				62	139							83	84
	32.5				25	80							204	128
	34.5				-	38							136	198
	36.5				25	40							91	148
	38.5				-	47							17	21
	40.5				25	7							51	42
	42.5				-	3							49	42
	44.5				-	3							-	21
	46.5				-	3							-	-
	48.5				-	-							-	-
50.5				-	-							17	21	
					1000	1000						1000	1000	
	N _c (000)				7	205						22	17	
	W _c (tons)				5	4						1	2	
	Samples (L)				56	315						58	47	
	No. Meas.				21.4	28.1						31.6	32.0	
	L _c (cm)				0.12	0.17						0.24	0.31	
	W (gm)				64	64						64	64	
	Mesh (mm)				27-48	46-48						30	37	
	Depth (m)													
AGE GROUP														
	Total													
	Samples (A)													
	No. Aged													

TABLE 26.1. LENGTH AND AGE FREQUENCIES - POLLOCK 1972 - Canada (MQ) - 4X

COUNTRY: CANADA (MQ)		GEAR: Otter trawl										
Commercial landings												
Mid-point of length group (cm)	COMPOSITION OF CATCHES/LANDINGS											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
LENGTH GROUP	40			-	-	-				-	17	
	43			-	-	-				5	60	
	46			9	25	-				-	72	
	49			9	-	8				-	55	
	52			-	-	13				15	100	
	55			9	-	-				35	74	
	58			18	-	13				56	42	
	61			18	-	71				178	32	
	64			36	25	205				315	34	
	67			54	25	259				198	94	
	70			88	34	130				107	112	
	73			143	143	88				46	149	
	76			223	193	75				30	74	
	79			232	177	59				10	40	
	82			71	227	50				-	18	
	85			54	59	4				5	17	
	88			18	76	13				-	7	
	91			18	8	-				-	3	
	94			-	8	-				-	-	
97			-	-	8				-	-		
100			-	-	-				-	-		
103			-	-	4				-	-		
			1000	1000	1000				1000	1000		
N _c (000)												
W _c (tons)			742	943	2555				1504	1661		
Samples (L)												
No. Meas.			112	119	239				197	597		
L ₁ (cm)			74.9	77.7	69.3				64.8	62.8		
W (gm)			5.11	5.66	4.10				3.33	3.29		
Mesh (mm)			114	114	114				114	114		
Depth (m)			91-146	110-115	64-220				155-192	101-174		
AGE GROUP	70	2			-	-	-			4	129	
	69	3			15	25	9			297	270	
	68	4			97	37	284			526	312	
	67	5			252	179	420			109	189	
	66	6			309	314	173			56	75	
	65	7			197	233	64			7	20	
	64	8			58	63	14			-	-	
	63	9			35	63	9			1	2	
	62	10			14	19	3			-	-	
	61	11			15	48	10			-	-	
	60	12			4	11	1			-	-	
		12+			4	8	13			-	3	
Total			1000	1000	1000				1000	1000		
Samples (A)						3				1		
No. Aged						96				112		

TABLE 27.1. LENGTH AND AGE FREQUENCIES - POLLOCK 1972 - USA - 5Y, 5Ze

COUNTRY: USA			GEAR: Otter trawl				
Commercial landings							
Mid-point of length group (cm)	5Y				5Ze		
	Nov	Dec			Sep	Nov	Dec
LENGTH GROUP	37	-	10		20	-	-
	40	-	40		65	68	-
	43	-	50		157	102	4
	46	-	30		163	112	14
	49	-	35		301	232	17
	52	-	85		222	175	9
	55	-	65		65	199	13
	58	9	55		7	83	14
	61	-	50		-	10	31
	64	9	80		-	9	106
	67	9	90		-	10	50
	70	19	40		-	-	76
	73	46	50		-	-	149
	76	75	50		-	-	123
	79	116	30		-	-	136
	82	133	30		-	-	86
	85	157	60		-	-	64
	88	130	30		-	-	13
	91	157	40		-	-	42
	94	56	40		-	-	35
97	46	10		-	-	-	
100	10	10		-	-	9	
103	19	-		-	-	-	
106	9	10		-	-	-	
109	-	10		-	-	9	
	1000	1000			1000	1000	1000
N_c (000)							
W_c (tons)	851	1196			155	212	195
Samples (L)	1	1			1	1	1
No. Meas.	108	100			153	103	117
L (cm)	83.8	66.9			47.8	50.3	74.6
\bar{W} (gm)							
Mesh (mm)	114	114					
Depth (m)	77-86	135-150			93-102	154-157	170-185
AGE GROUP							
Total							
Samples (A)							
No. Aged							

TABLE 28.3. LENGTH AND AGE FREQUENCIES - AMERICAN PLAICE 1972 - Canada (MQ) - 4T

COUNTRY: CANADA (MQ)			GEAR: Otter trawl										
Commercial landings													
Mid-point of length group (cm)	COMPOSITION OF CATCHES/LANDINGS												
	Sep			Oct									
	♂♂	♀♀	Total	♂♂	♀♀	Total	♂♂	♀♀	Total	♂♂	♀♀	Total	
LENGTH GROUP	26.5	5	5	10	25	5	30						
	28.5	10	5	15	58	10	68						
	30.5	52	84	136	111	54	165						
	32.5	66	130	196	82	149	231						
	34.5	50	149	199	111	73	184						
	36.5	14	98	112	93	54	147						
	38.5	5	50	55	15	82	97						
	40.5	9	61	70	5	33	38						
	42.5	5	42	47	-	10	10						
	44.5	-	61	61	-	20	20						
	46.5	-	38	38	-	5	5						
	48.5	-	23	23	-	-	-						
	50.5	-	19	19	-	5	5						
	52.5	-	14	14	-	-	-						
	54.5	-	5	5	-	-	-						
			216	784	1000	500	500	1000					
	N _c (000)												
W _c (tons)				173			124						
Samples (L)		1	1	1	1	1	1						
No. Meas.		46	168	214	103	103	206						
L (cm)		33.1	37.7	36.7	32.8	35.3	34.0						
W (gm)		0.30	0.47	0.43	0.29	0.37	0.33						
Mesh (mm)				114			114						
Depth (m)				55-64			57-82						
AGE GROUP	68	4	4	-	4	23	-	23					
	67	5	9	47	56	19	32	51					
	66	6	45	101	146	111	93	204					
	65	7	44	103	147	74	71	145					
	64	8	30	105	135	59	73	132					
	63	9	8	126	134	19	100	119					
	62	10	22	65	87	77	68	145					
	61	11	7	48	55	25	13	38					
	60	12	31	57	88	52	26	78					
	59	13	5	51	56	-	9	9					
	58	14	8	26	34	18	5	23					
57	15	3	6	9	23	-	23						
	15+	-	49	49	-	10	10						
Total		216	784	1000	500	500	1000						
Samples (A)		1	1	1	1	1	1						
No. Aged		21	42	63 ¹	14	15	29 ¹						

¹ Age-length keys combined to calculate age compositions.

TABLE 28.4. LENGTH AND AGE FREQUENCIES - AMERICAN PLAICE 1972 - Canada (MQ) - 4Vs

COUNTRY: CANADA (MQ)			GEAR: Otter trawl											
Commercial Landings														
Mid-point of length group (cm)	COMPOSITION OF CATCHES/LANDINGS													
	Jan			Mar			Apr			May				
	♂♂	♀♀	Total	♂♂	♀♀	Total	♂♂	♀♀	Total	♂♂	♀♀	Total		
30.5	15	-	15	5	-	5	-	-	-	-	-	-		
32.5	65	5	70	70	5	75	45	-	45	-	-	-		
34.5	105	-	105	90	10	100	85	5	90	20	10	30		
36.5	155	-	155	125	70	195	85	25	110	-	40	40		
38.5	70	45	115	55	85	140	95	40	135	50	50	100		
40.5	85	45	130	40	45	85	35	30	65	40	50	90		
42.5	70	30	100	15	20	35	60	30	90	20	170	190		
44.5	40	30	70	10	55	65	45	115	160	50	90	140		
46.5	25	80	105	5	65	70	5	65	70	10	110	120		
48.5	-	40	40	5	75	80	-	90	90	30	70	100		
50.5	-	35	35	-	35	35	5	25	30	-	80	80		
52.5	-	20	20	-	45	45	5	50	55	-	70	70		
54.5	-	-	-	-	25	25	-	40	40	-	30	30		
56.5	-	20	20	-	10	10	-	10	10	-	10	10		
58.5	-	-	-	-	5	5	5	-	5	-	-	-		
60.5	-	20	20	-	10	10	-	5	5	-	-	-		
62.5	-	-	-	-	5	5	-	-	-	-	-	-		
64.5	-	-	-	-	-	-	-	-	-	-	-	-		
66.5	-	-	-	-	15	15	-	-	-	-	-	-		
	630	370	1000	420	580	1000	470	530	1000	220	780	1000		
N _c (000)														
W _c (tons)			492			624			464			515		
Samples (L)			1			1			1			1		
No. Meas.	126	74	200	84	116	200	94	106	200	21	79	100		
L̄ (cm)	37.9	46.4	41.0	36.6	45.4	41.7	38.6	46.4	42.7	41.8	45.7	44.9		
W̄ (gm)	0.48	0.97	0.66	0.42	0.94	0.72	0.49	0.86	0.69	0.61	0.83	0.78		
Mesh (mm)			114			114			114			114		
Depth (m)			256-366			174-183			67-77			64-274		
AGE GROUP	66	6	31	-	31	28	-	28	26	-	26	-		
	65	7	12	9	21	10	18	28	9	8	17	2		
	64	8	75	17	92	69	59	128	71	33	104	15		
	63	9	203	42	245	156	76	232	156	38	194	34		
	62	10	98	68	166	56	95	151	99	106	205	16		
	61	11	62	87	149	32	118	150	38	131	169	32		
	60	12	41	30	71	20	48	68	25	54	79	20		
	59	13	96	31	127	41	30	71	26	30	56	76		
	58	14	-	8	8	-	13	13	5	6	11	5		
	57	15	-	13	13	5	22	27	10	33	43	5		
	15+	12	65	77	3	101	104	5	91	96	15			
		630	370	1000	420	580	1000	470	530	1000	220	780	1000	
Samples (A)			1			1			1			1		
No. Aged			28			42			70			23	42	65

1 Age-length keys combined to calculate Jan - May age compositions.

TABLE 29.1. LENGTH AND AGE FREQUENCIES - AMERICAN PLAICE 1972 - Canada (N) - 3L

COUNTRY: CANADA (N)			GEAR: Otter trawl									
Commercial landings (after discards)												
Mid-point of length group (cm)	COMPOSITION OF CATCHES/LANDINGS											
	May			Sep			Nov			♂♂	♀♀	Total
	♂♂	♀♀	Total	♂♂	♀♀	Total	♂♂	♀♀	Total	♂♂	♀♀	Total
LENGTH GROUP	20.5	-	-	-	-	-	-	-	1	-	-	1
	22.5	-	-	-	-	1	1	-	1	-	-	1
	24.5	-	-	-	-	1	1	2	1	-	-	3
	26.5	2	-	2	5	2	7	1	1	-	-	2
	28.5	4	-	4	15	8	23	8	5	-	-	13
	30.5	29	1	30	21	9	30	19	10	-	-	29
	32.5	103	32	135	45	21	66	33	26	-	-	59
	34.5	102	32	134	73	33	106	53	41	-	-	94
	36.5	85	47	132	94	41	135	58	47	-	-	105
	38.5	93	51	144	81	50	131	67	49	-	-	116
	40.5	52	53	105	65	49	114	60	61	-	-	121
	42.5	40	56	96	46	59	105	44	60	-	-	104
	44.5	22	56	78	37	44	81	36	62	-	-	98
	46.5	10	32	42	15	41	56	21	52	-	-	73
	48.5	1	32	33	4	36	40	7	49	-	-	56
	50.5	-	17	17	2	31	33	3	33	-	-	36
	52.5	-	14	14	-	23	23	-	26	-	-	26
	54.5	-	14	14	-	18	18	-	21	-	-	21
	56.5	-	9	9	-	9	9	-	16	-	-	16
	58.5	-	8	8	-	8	8	-	10	-	-	10
60.5	-	2	2	-	6	6	-	5	-	-	5	
62.5	-	1	1	-	1	1	-	5	-	-	5	
64.5	-	-	-	-	3	3	-	3	-	-	3	
66.5	-	-	-	-	2	2	-	1	-	-	1	
68.5	-	-	-	-	1	1	-	1	-	-	1	
70.5	-	-	-	-	-	-	-	1	-	-	1	
		543	457	1000	503	497	1000	413	587	-	-	1000
N _c (000)												
W _c (tons)			1728			1772						1323
Samples (L)												
No. Meas.		756	637	1393	1115	1101	2216	822	1169	-	-	1991
L (cm)		36.7	42.4	-	37.7	43.4	40.5	38.5	43.6	-	-	41.5
W (gm)		0.46	0.69	-	0.51	0.72	-	-	-	-	-	0.68
Mesh (mm)				-								Large
Depth (m)				-								155-238
AGE GROUP	65	7	-	-	-	15	4	19				
	64	8	6	-	6	23	44	67				
	63	9	105	14	119	96	27	123				
	62	10	110	23	133	82	64	146				
	61	11	71	79	150	146	75	221				
	60	12	113	124	237	87	60	147				
	59	13	111	96	207	28	24	52				
	58	14	27	41	68	25	42	67				
	57	15	-	27	27	1	30	31				
	56	16	-	19	19	-	49	49				
	55	17	-	12	12	-	32	32				
	54	18	-	-	-	-	21	21				
53	19	-	-	-	-	6	6					
	19+	-	22	22	-	19	19					
Total		543	457	1000	503	497	1000					
Samples (A)												
No. Aged		128	116	244	114	172	286					

TABLE 30.1. LENGTH AND AGE FREQUENCIES - AMERICAN PLAICE 1972 - Denmark (G) - 1C, 1D

COUNTRY: DENMARK (G)		GEAR: Otter trawl (prawn and balloon)					
Research catches							
Mid-point of length group (cm)	1C			1D			
	OT (prawn)			OT (prawn)		OT (balloon)	
	Apr	Jun		Apr	May	Jun	Jul
(2 cm)							
8.5	-	-		-	-	-	6
10.5	-	-		-	-	-	1
12.5	-	6		-	7	4	4
14.5	5	19		-	11	8	12
16.5	28	31		-	33	48	31
18.5	79	105		2	55	89	71
20.5	107	158		14	99	124	149
22.5	165	155		45	130	106	110
24.5	163	205		82	104	88	129
26.5	191	161		101	98	113	112
28.5	93	61		172	90	68	61
30.5	52	30		124	84	86	59
32.5	23	19		96	81	60	47
34.5	61	18		91	70	72	49
36.5	9	16		84	60	48	82
38.5	9	10		77	48	35	43
40.5	10	6		63	22	27	24
42.5	5	-		33	4	14	6
44.5	-	-		12	2	4	1
46.5	-	-		2	2	-	1
48.5	-	-		2	-	2	1
50.5	-	-		-	-	2	-
52.5	-	-		-	-	-	-
54.5	-	-		-	-	2	1
	1000	1000		1000	1000	1000	1000
N _c (000)							
W _c (tons)							
Samples (L)	1	1		1	2	1	1
No. Meas.	214	686		427	455	518	788
\bar{L} (cm)	25.3	23.9		31.7	27.4	26.9	26.6
\bar{W} (gm)	0.14	0.10		0.31	0.20	-	-
Mesh (mm)	36	36		36	36	36	40
Depth (m)	275	475-485		275	270-300	300	300
AGE GROUP							
Total							
Samples (A)							
No. Aged							

TABLE 31.1. LENGTH AND AGE FREQUENCIES - AMERICAN PLAICE 1972 - Poland - 3K, 3L

COUNTRY: POLAND			GEAR: Otter trawl											
Research catches (not reported by sex)														
Mid-point of length group (cm)	3K						3L							
	Apr			Sep			Mar			Sep				
	♂♂	♀♀	Total	♂♂	♀♀	Total	♂♂	♀♀	Total	♂♂	♀♀	Total		
(2 cm)														
<10			-			-			-			5		
10.5			-			-			-			17		
12.5			-			9			-			90		
14.5			-			30			-			99		
16.5			1			91			-			87		
18.5			5			142			-			90		
20.5			6			120			6			86		
22.5			39			161			23			80		
24.5			64			107			27			74		
26.5			71			107			51			65		
28.5			99			103			39			54		
30.5			112			37			33			47		
32.5			102			26			28			41		
34.5			126			12			31			38		
36.5			131			11			58			28		
38.5			94			12			64			28		
40.5			52			4			87			21		
42.5			42			2			124			16		
44.5			37			-			102			10		
46.5			9			4			86			8		
48.5			7			4			71			6		
50.5			2			5			56			2		
52.5			-			2			53			2		
54.5			1			2			33			3		
56.5			-			7			11			1		
58.5			-			2			6			1		
60.5			-			-			8			1		
62.5			-			-			3			-		
			1000			1000			1000			1000		
N _c (000)														
W _c (tons)			19			140			1374			4		
Samples (L)												3		
No. Meas.			670			429			995			3884		
L̄ (cm)			33.5			24.1			41.5			24.0		
W̄ (gm)			-			-			-			-		
Mesh (mm)			130			130			130			130		
Depth (m)			590			430-590			280-360			180-360		
AGE GROUP	69	3	-	-	-	25	38	63	-	-	-	14	14	28
	68	4	6	18	24	63	63	126	-	-	-	53	49	102
	67	5	12	12	24	114	165	279	-	-	-	46	42	88
	66	6	77	137	214	139	25	164	10	-	10	89	96	185
	65	7	53	179	232	114	76	190	81	20	101	53	67	120
	64	8	30	148	178	38	63	101	20	71	91	64	103	167
	63	9	41	102	143	-	38	38	10	51	61	18	74	92
	62	10	6	59	65	-	13	13	20	30	50	18	28	46
	61	11	6	42	48	13	-	13	30	-	30	18	18	36
	60	12	-	18	18	-	13	13	20	10	30	18	11	29
	59	13	-	12	12	-	-	-	81	91	172	11	21	32
	58	14	-	12	12	-	-	-	71	40	111	3	7	10
	57	15	-	24	24	-	-	-	40	61	101	3	3	6
	56	16	-	-	-	-	-	-	20	10	30	-	11	11
55	17	-	-	-	-	-	-	10	61	71	-	-	-	
	17+	6	-	6	-	-	-	-	142	142	3	45	48	
Total ¹		237	763	1000	506	494	1000	413	587	1000	411	589	1000	
Samples (A)		1	1	1	1	1	1	1	1	1	3	3	3	
No. Aged		40	128	168	40	39	79	41	58	99	116	167	283	

¹ Age frequencies pertain to age samples only.

TABLE 32.1. LENGTH AND AGE FREQUENCIES - WITCH 1972 - Canada (MQ) - 3L, 3Ps

COUNTRY: CANADA (MQ)		GEAR: Otter trawl											
Commercial landings													
Mid-point of length group (cm)	LENGTH GROUP	3L						3Ps					
		Apr			Nov			Nov			Nov		
		♂♂	♀♀	Total	♂♂	♀♀	Total	♂♂	♀♀	Total	♂♂	♀♀	Total
(2 cm)													
28.5		-	-	-			5	-	5				
30.5		-	-	-			15	5	20				
32.5		-	-	-			25	5	30				
34.5		-	-	-			50	20	70				
36.5		29	7	36			15	35	50				
38.5		22	-	22			80	35	115				
40.5		29	22	51			65	70	135				
42.5		74	59	133			50	40	90				
44.5		146	51	197			40	45	85				
46.5		102	80	182			35	55	90				
48.5		59	80	139			15	85	100				
50.5		14	117	131			5	90	95				
52.5		-	73	73			20	50	70				
54.5		7	22	29			-	15	15				
56.5		-	7	7			-	25	25				
58.5		-	-	-			-	5	5				
		482	518	1000			420	580	1000				
N _c (000)													
W _c (tons)				20					.66				
Samples (L)				1			1	1	1				
No. Meas.		66	71	137			84	116	200				
L (cm)		44.5	48.0	46.3			40.3	45.7	43.4				
W (gm)		0.81	1.05	0.93			0.61	0.93	0.79				
Mesh (mm)				114					114				
Depth (m)				91-110					137-164				
	AGE GROUP												
Total													
Samples (A)													
No. Aged													

TABLE 32.2. LENGTH AND AGE FREQUENCIES - WITCH 1972 - Canada (MQ) - 4Vs

COUNTRY: CANADA (MQ)			GEAR: Otter trawl										
Commercial landings													
Mid-point of length group (cm)	COMPOSITION OF CATCHES/LANDINGS												
	Feb			Mar									
	♂♂	♀♀	Total	♂♂	♀♀	Total	♂♂	♀♀	Total	♂♂	♀♀	Total	
LENGTH GROUP (2 cm)	32.5	8	-	8	5	-	5						
	34.5	17	9	26	5	-	5						
	36.5	17	-	17	40	-	40						
	38.5	52	17	69	115	5	120						
	40.5	77	34	111	70	30	100						
	42.5	51	60	111	105	30	135						
	44.5	34	60	94	85	100	185						
	46.5	17	103	120	65	85	150						
	48.5	18	86	104	25	90	115						
	50.5	-	146	146	-	75	75						
	52.5	-	102	102	-	30	30						
	54.5	-	42	42	-	15	15						
	56.5	-	26	26	-	15	15						
	58.5	-	16	16	-	5	5						
	60.5	-	8	8	-	5	5						
			291	709	1000	515	485	1000					
	N _c (000)												
W _c (tons)		327			681								
Samples (L)		1			1								
No. Meas.		34	83	117	103	97	200						
L (cm)		40.9	48.5	46.3	41.8	47.6	44.6						
W (gm)		0.61	1.10	0.96	0.66	1.02	0.84						
Mesh (mm)		114			114								
Depth (m)		110-256			82-201								
AGE GROUP	67	5	12	-	12	6	-	6					
	66	6	10	-	10	15	-	15					
	65	7	75	17	92	102	15	117					
	64	8	107	62	169	184	73	257					
	63	9	24	151	175	61	94	155					
	62	10	36	49	85	101	40	141					
	61	11	9	119	128	21	63	84					
	60	12	18	158	176	25	138	163					
	59	13	-	31	31	-	13	13					
	58	14	-	75	75	-	27	27					
	57	15	-	-	-	-	2	2					
	15+	-	47	47	-	20	20						
Total		291	709	1000	515	485	1000						
Samples (A)		1	1	1									
No. Aged		29	41	70									

TABLE 32.3. LENGTH AND AGE FREQUENCIES - WITCH 1972 - Canada (MQ) - 4W

COUNTRY: CANADA (MQ)			GEAR: Danish seine									
Commercial landings												
Mid-point of length group (cm)	COMPOSITION OF CATCHES/LANDINGS											
	May			Nov								
	♂♂	♀♀	Total	♂♂	♀♀	Total	♂♂	♀♀	Total	♂♂	♀♀	Total
LENGTH GROUP (2 cm)	32.5	-	-	-	-	30			30			
	34.5	-	20	20	20	20			40			
	36.5	10	20	30	65	35	100					
	38.5	60	40	100	100	60	160					
	40.5	80	80	160	95	70	165					
	42.5	70	140	210	135	70	205					
	44.5	40	170	210	60	85	145					
	46.5	70	70	140	45	25	70					
	48.5	-	60	60	15	25	40					
	50.5	-	50	50	15	25	40					
	52.5	-	20	20	-	-	-					
	54.5	-	-	-	-	-	-					
	56.5	-	-	-	-	5	5					
			330	670	1000	550	450	1000				
N _c (000)												
W _c (tons)			32			59						
Samples (L)		1	1	1	1	1						
No. Meas.		33	67	100	110	90	200					
L _m (cm)		42.2	43.8	43.3	41.4	41.8	41.6					
W _m (gm)		0.67	0.78	0.74	0.64	0.67	0.65					
Mesh (mm)			114			114						
Depth (m)			121-165			119-128						
AGE GROUP	67	5	-	-	-	43	35	78				
	66	6	5	10	15	42	40	82				
	65	7	25	20	45	360	145	505				
	64	8	60	167	227	90	188	278				
	63	9	115	197	312	-	12	12				
	62	10	30	40	70	-	13	13				
	61	11	60	116	176	15	12	27				
	60	12	35	95	130	-	-	-				
59	13	-	25	25	-	5	5					
Total		330	670	1000	550	450	1000					
Samples (A)		1	1	1	1	1	1					
No. Aged		8	22	30	15	18	33					

TABLE 33.1. LENGTH AND AGE FREQUENCIES - WITCH 1972 - Canada (N) - 3L, 30, 3Ps

COUNTRY: CANADA (N)				GEAR: Otter trawl								
Commercial landings after discards												
Mid-point of length group (cm)	3L			30			3Ps					
	Sep			Feb			Nov					
	♂♂	♀♀	Total	♂♂	♀♀	Total	♂♂	♀♀	Total	♂♂	♀♀	Total
(2 cm)												
30.5	-	-	-	12	4	16	-	-	-			
32.5	-	-	-	2	-	2	4	-	4			
34.5	-	-	-	16	18	34	4	-	4			
36.5	2	-	2	40	23	63	5	18	23			
38.5	8	2	10	48	70	118	12	4	16			
40.5	4	2	6	84	68	152	55	13	68			
42.5	29	4	33	61	68	129	53	38	91			
44.5	75	21	96	80	51	131	58	42	100			
46.5	110	25	135	58	88	146	80	58	138			
48.5	142	38	180	35	64	99	89	75	164			
50.5	152	54	206	10	48	58	49	69	118			
52.5	75	49	124	6	24	30	16	103	119			
54.5	30	48	78	-	10	10	7	70	77			
56.5	2	42	44	-	10	10	-	47	47			
58.5	-	32	32	-	2	2	-	22	22			
60.5	2	34	36	-	-	-	-	9	9			
62.5	-	14	14	-	-	-	-	-	-			
64.5	-	2	2	-	-	-	-	-	-			
66.5	-	-	-	-	-	-	-	-	-			
68.5	-	-	-	-	-	-	-	-	-			
70.5	-	2	2	-	-	-	-	-	-			
	631	369	1000	452	548	1000	432	568	1000			
N _c (000)						710						583
W _c (tons)			54									
Samples (L)			1	1	1	1	1	1	1			
No. Meas.	328	192	520	233	282	515	239	314	553			
L _r (cm)	48.5	53.3	50.3	42.1	44.4	43.4	45.6	50.0	48.1			
W (gm)			0.89			0.84			0.80			
Mesh (mm)			Large			Large			Large			
Depth (m)			165-174			128-174			155			
AGE GROUP												
Total												
Samples (A)												
No. Aged												

TABLE 36.1. LENGTH AND AGE FREQUENCIES - YELLOWTAIL 1972 - Canada (N) - 3L, 3N

COUNTRY: CANADA (N)			GEAR: Otter trawl											
Commercial landings (after discards)														
Mid-point of length group (cm)	3L			May			3N			Nov				
	May		Total	May		Total	Sep		Total	Nov		Total		
	♂♂	♀♀		♂♂	♀♀		♂♂	♀♀		♂♂	♀♀			
(2 cm)														
24.5	-	-	-	-	-	-	-	-	-	1	1	2		
26.5	1	1	2	-	-	-	-	-	-	-	3	3		
28.5	6	5	11	1	-	1	1	1	2	4	4	8		
30.5	28	18	46	11	6	17	7	6	13	26	31	57		
32.5	49	36	85	36	14	50	24	14	38	41	75	116		
34.5	98	56	154	76	28	104	54	49	103	54	88	142		
36.5	130	73	203	156	72	228	74	74	148	82	118	200		
38.5	124	90	214	128	137	265	93	129	223	68	120	188		
40.5	59	100	159	44	116	160	55	131	187	36	72	108		
42.5	17	75	92	16	100	116	23	121	145	19	74	93		
44.5	4	28	32	3	38	41	9	90	99	4	42	46		
46.5	-	1	1	1	14	15	1	31	32	1	19	20		
48.5	-	-	-	-	2	2	-	10	10	-	13	13		
50.5	-	1	1	-	-	-	-	3	3	-	2	2		
52.5	-	-	-	-	1	1	-	-	-	-	2	2		
			516	484	1000	472	528	1000	341	659	1000	336	664	1000
N_c (000)														
W_c (tons)			477			1757			4125			4598		
Samples (L)			-			-			1	1	1	3	3	3
No. Meas.	1493	1400	1893	594	663	1257	365	710	1075	565	1107	1672		
\bar{L} (cm)	36.5	38.3	37.4	36.9	39.7	38.4	37.6	40.3	39.3	36.4	37.9	37.4		
\bar{W} (gm)	0.42	0.49	0.45	0.44	0.56	0.50	-	-	0.50	-	-	0.54		
Mesh (mm)			-			-			Large			Large		
Depth (m)			-			-			64-70			55-73		
AGE GROUP	67	5	22	13	35	-	-	-						
	66	6	131	120	251	41	52	93						
	65	7	269	167	436	338	227	565						
	64	8	88	146	234	89	213	302						
	63	9	2	38	40	2	21	23						
	62	10	-	-	-	2	7	9						
	61	11	4	-	4	-	4	4						
60	12	-	-	-	-	4	4							
Total			516	484	1000	472	528	1000						
Samples (A)														
No. Aged			193	214	417	95	121	215						

TABLE 38.1. LENGTH AND AGE FREQUENCIES - YELLOWTAIL 1972 - USA - 5Z (E of 69°)

COUNTRY: USA			GEAR: Otter trawl											
Commercial landings														
Mid-point of length group (cm)	COMPOSITION OF CATCHES/LANDINGS													
	Jan			Feb			Mar			Apr				
	♂♂	♀♀	Total	♂♂	♀♀	Total	♂♂	♀♀	Total	♂♂	♀♀	Total		
LENGTH GROUP	30	-	-	-	1	-	1	1	-	1	2	-	2	
	31	-	-	-	4	-	4	4	3	7	2	-	2	
	32	-	-	-	10	1	11	10	4	14	9	4	13	
	33	8	2	10	47	13	60	24	15	39	27	32	59	
	34	24	8	32	48	47	95	43	42	85	48	52	100	
	35	62	28	90	63	78	141	57	58	115	40	75	115	
	36	62	70	132	40	103	143	54	111	165	56	81	137	
	37	53	49	102	35	100	135	27	87	114	34	86	120	
	38	49	70	119	22	82	104	30	87	117	23	73	96	
	39	46	71	117	19	58	77	21	70	91	27	52	79	
	40	33	46	79	24	54	78	19	51	70	13	72	85	
	41	35	71	106	10	35	45	9	47	56	14	50	64	
	42	24	46	70	1	19	20	6	27	33	7	39	46	
	43	5	49	54	3	22	25	2	19	21	4	27	31	
	44	6	33	39	1	18	19	3	19	22	-	20	20	
	45	-	19	19	-	12	12	-	13	13	2	13	15	
	46	-	5	5	-	7	7	-	11	11	-	7	7	
	47	-	6	6	-	7	7	-	4	4	-	2	2	
	48	-	8	8	-	6	6	-	9	9	-	7	7	
	49	-	8	8	-	3	3	-	7	7	-	-	-	
	50	-	2	2	-	3	3	-	2	2	-	-	-	
	51	-	2	2	-	1	1	-	2	2	-	-	-	
	52	-	-	-	-	1	1	-	2	2	-	-	-	
	53	-	-	-	-	1	1	-	-	-	-	-	-	
54	-	-	-	-	1	1	-	-	-	-	-	-		
			407	593	1000	328	672	1000	310	690	1000	308	692	1000
N _c (000)														
W _c (tons)														
Samples (L)			6	6	6	6	6	6	9	9	9	5	5	5
No. Meas.			259	378	637	223	457	680	313	696	1009	172	386	558
L (cm)			36.7	38.9	38.0	35.0	38.3	37.5	36.2	38.5	37.8	36.3	38.2	37.6
W (gm)			0.45	0.56	0.52	0.42	0.54	0.50	0.44	0.54	0.51	0.43	0.63	0.57
Mesh (mm)					122			122			122			122
Depth (m)					51-68			40-84			33-77			46-88
AGE GROUP	70	2	1	1	2	3	2	5	2	1	3	11	2	13
	69	3	137	187	324	129	249	378	115	240	355	118	280	398
	68	4	171	241	412	131	265	396	127	277	404	119	266	385
	67	5	77	132	209	50	118	168	50	130	180	50	115	165
	66	6	15	26	41	10	25	35	9	29	38	9	17	26
	65	7	6	4	10	5	4	9	6	4	10	1	4	5
	64	8	-	2	2	-	3	3	1	4	5	-	-	-
	63	9	-	-	-	-	3	3	-	3	3	-	8	8
62	10	-	-	-	-	3	3	-	2	2	-	-	-	
Total			407	593	1000	328	672	1000	310	690	1000	308	692	1000
Samples (A)			6	6	6	6	6	6	9	9	9	5	5	5
No. Aged			150	151	301	151	150	301	207	225	432	125	125	250

TABLE 38.1. LENGTH AND AGE FREQUENCIES - YELLOWTAIL 1972 - USA - 5Z (E of 69°) (CONT'D)

COUNTRY: USA			GEAR: Otter trawl												
Commercial landings															
Mid-point of length group (cm)	COMPOSITION OF CATCHES/LANDINGS														
	May			Jun			Jul			Aug					
	♂♂	♀♀	Total	♂♂	♀♀	Total	♂♂	♀♀	Total	♂♂	♀♀	Total			
LENGTH GROUP	29	1	-	1	-	-	-	-	-	-	1	1			
	30	2	1	3	-	-	-	-	-	-	1	1			
	31	1	-	1	-	2	2	3	3	6	7	9			
	32	6	6	12	2	3	5	23	1	24	10	16			
	33	15	15	30	9	12	21	24	6	30	26	56			
	34	27	43	70	16	35	51	27	34	61	26	87			
	35	37	54	91	31	51	82	41	70	111	29	118			
	36	33	68	101	30	92	122	33	105	138	21	127			
	37	34	91	125	35	99	134	16	112	128	15	139			
	38	30	87	117	37	88	125	19	116	135	10	114			
	39	19	74	93	44	89	133	10	117	127	4	100			
	40	10	72	82	23	82	105	9	60	69	-	72			
	41	8	60	68	19	63	82	-	63	63	1	45			
	42	7	53	60	19	30	49	-	29	29	-	40			
	43	3	26	29	3	19	22	3	23	26	-	26			
	44	3	24	27	3	21	24	1	23	24	1	23			
	45	1	24	25	2	10	12	-	13	13	-	12			
	46	-	20	20	2	14	16	-	4	4	-	5			
	47	-	13	13	2	3	5	-	6	6	-	5			
	48	-	13	13	-	5	5	-	1	1	-	1			
	49	-	9	9	-	-	-	-	1	1	-	1			
	50	-	3	3	-	-	-	-	3	3	-	2			
	51	-	-	-	-	3	3	-	1	1	-	-			
	52	-	5	5	-	-	-	-	-	-	-	-			
53	-	1	1	-	2	2	-	-	-	-	-				
54	-	1	1	-	-	-	-	-	-	-	-				
			237	763	1000	277	723	1000	209	791	1000	150	850	1000	
N _c (000)															
W _c (tons)															
Samples (L)			10	10	10	5	5	5	7	7	7	5	5	5	
No. Meas.			243	781	1024	159	414	573	146	552	698	123	697	820	
L (cm)			36.6	39.3	38.7	38.0	38.6	38.5	35.4	38.4	37.8	34.8	37.9	37.5	
W (gm)			0.44	0.70	0.64	0.49	0.65	0.61	0.39	0.53	0.50	0.37	0.51	0.49	
Mesh (mm)					122			122			122			122	
Depth (m)					44-82			55-77			37-55			55-82	
AGE GROUP	70	2	8	2	10	5	1	6	53	56	109	46	87	133	
	69	3	85	260	345	72	269	341	87	358	445	62	388	450	
	68	4	94	292	386	120	290	410	49	260	309	31	254	285	
	67	5	40	147	187	59	133	192	15	92	107	8	97	105	
	66	6	9	37	46	17	21	38	5	17	22	3	17	20	
	65	7	1	19	20	4	7	11	-	5	5	-	5	5	
	64	8	-	2	2	-	-	-	-	1	1	-	1	1	
	63	9	-	4	4	-	-	-	-	2	2	-	1	1	
	62	10	-	-	-	-	1	1	-	-	-	-	-	-	-
	61	11	-	-	-	-	1	1	-	-	-	-	-	-	-
	Total			237	763	1000	277	723	1000	209	791	1000	150	850	1000
Samples (A)			9	9	9	6	6	6	6	6	6	7	7	7	
No. Aged			170	226	396	78	150	228	121	149	270	136	174	310	

TABLE 38.1. LENGTH AND AGE FREQUENCIES - YELLOWTAIL 1972 - USA - 5Z (E of 69°) (CONT'D)

COUNTRY: USA			GEAR: Otter trawl											
Commercial landings														
Mid-point of length group (cm)	COMPOSITION OF CATCHES/LANDINGS													
	Sep			Oct			Nov			Dec				
	♂♂	♀♀	Total	♂♂	♀♀	Total	♂♂	♀♀	Total	♂♂	♀♀	Total		
LENGTH GROUP	29	-	-	-	-	-	-	-	-	2	-	2		
	30	2	-	2	-	-	-	-	-	2	-	2		
	31	2	-	2	2	-	2	7	2	9	8	-	8	
	32	15	2	17	17	2	19	28	5	33	4	-	4	
	33	41	17	58	35	12	47	48	8	56	34	2	36	
	34	58	25	83	87	25	112	76	43	119	40	26	66	
	35	56	56	112	114	45	159	84	80	164	51	40	91	
	36	54	81	135	89	69	158	84	80	164	50	72	122	
	37	44	66	110	76	92	168	71	67	138	40	80	120	
	38	27	88	115	49	58	107	48	55	103	26	82	108	
	39	19	75	94	30	39	69	33	33	66	10	81	91	
	40	10	77	87	17	32	49	20	20	40	12	52	64	
	41	10	58	68	10	17	27	8	30	38	8	36	44	
	42	10	41	51	3	24	27	7	18	25	-	56	56	
	43	-	17	17	-	13	13	5	15	20	4	50	54	
	44	-	21	21	-	10	10	-	11	11	-	52	52	
	45	-	6	6	-	7	7	-	3	3	-	36	36	
	46	-	8	8	-	3	3	-	2	2	-	18	18	
	47	-	4	4	-	5	5	-	3	3	-	14	14	
	48	-	6	6	-	5	5	-	2	2	-	6	6	
	49	-	4	4	-	3	3	-	2	2	-	4	4	
50	-	-	-	-	7	7	-	2	2	-	-	-		
51	-	-	-	-	3	3	-	-	-	-	2	2		
			348	652	1000	529	471	1000	519	481	1000	291	709	1000
N _c (000)														
W _c (tons)														
Samples (L)			5	5	5	5	5	5	5	5	5	5	5	5
No. Meas.			180	337	517	315	280	595	316	293	609	146	355	501
L _c (cm)			35.8	38.7	37.7	35.9	38.4	37.0	35.8	37.5	36.7	35.7	39.8	38.6
W _L (gm)			0.40	0.54	0.49	0.38	0.50	0.44	0.38	0.46	0.42	0.38	0.56	0.51
Mesh (mm)					122			122			122			122
Depth (m)					46-73			53-77			64-73			55-70
AGE GROUP	70	2	76	47	123	102	163	265	106	187	293	62	163	225
	69	3	145	281	426	239	156	395	226	164	390	127	218	345
	68	4	88	215	303	120	77	197	117	72	189	62	165	227
	67	5	27	84	111	54	48	102	53	41	94	29	110	139
	66	6	12	20	32	13	18	31	15	13	28	9	44	53
	65	7	-	3	3	-	6	6	1	3	4	1	6	7
	64	8	-	1	1	-	2	3	1	1	2	1	2	3
	63	9	-	1	1	-	1	1	-	-	-	-	1	1
	Total			348	652	1000	529	471	1000	519	481	1000	291	709	1000
Samples (A)			5	5	5	5	5	5	5	5	5	5	5	5
No. Aged			110	126	236	123	125	248	123	113	236	99	124	223

TABLE 38.2. LENGTH AND AGE FREQUENCIES - YELLOWTAIL 1972 - USA - 5Z (W of 69°)

COUNTRY: USA			GEAR: Otter trawl											
Commercial landings														
Mid-point of length group (cm)			COMPOSITION OF CATCHES/LANDINGS											
			Jan			Feb			Mar			Apr		
			♂♂	♀♀	Total	♂♂	♀♀	Total	♂♂	♀♀	Total	♂♂	♀♀	Total
LENGTH GROUP	28	-	-	-	1	-	1	-	-	-	-	-	-	-
	29	-	-	-	4	-	4	2	-	2	2	3	5	
	30	3	2	5	8	2	10	5	3	8	23	12	35	
	31	15	16	31	11	4	15	20	5	25	47	28	75	
	32	46	26	72	36	19	55	46	12	58	52	53	105	
	33	73	46	119	51	30	81	58	40	98	53	48	101	
	34	97	52	149	69	44	113	80	60	140	67	67	134	
	35	70	80	150	58	71	129	70	83	153	40	63	103	
	36	58	90	148	50	92	142	37	94	131	20	89	109	
	37	32	61	93	41	77	118	34	86	120	15	78	93	
	38	28	49	77	37	72	109	25	66	91	12	42	54	
	39	22	42	64	18	53	71	18	49	67	8	40	48	
	40	9	24	33	11	47	58	6	29	35	7	18	25	
	41	2	21	23	11	25	36	9	21	30	5	28	33	
	42	1	17	18	6	14	20	2	9	11	5	10	15	
	43	-	6	6	1	12	13	2	-	2	-	8	8	
	44	-	6	6	1	4	5	2	3	5	-	15	15	
	45	-	2	2	-	6	6	-	11	11	-	3	3	
	46	-	3	3	-	1	1	-	9	9	-	3	3	
	47	-	1	1	-	5	5	-	2	2	-	7	7	
	48	-	-	-	-	2	2	-	2	2	-	5	5	
	49	-	-	-	-	4	4	-	-	-	-	5	5	
	50	-	-	-	-	1	1	-	-	-	-	8	8	
	51	-	-	-	-	1	1	-	-	-	-	7	7	
	52	-	-	-	-	-	-	-	-	-	-	-	-	
	53	-	-	-	-	-	-	-	-	-	-	2	2	
54	-	-	-	-	-	-	-	-	-	-	2	2		
			456	544	1000	414	586	1000	416	584	1000	356	644	1000
N _c (000)														
W _c (tons)														
Samples (L)			7	7	7	7	7	7	5	5	5	5	5	5
No. Meas.			422	503	925	346	490	836	271	381	652	213	386	599
W _L (cm)			34.8	36.4	35.7	35.2	37.3	36.5	34.8	36.8	36.0	33.8	36.8	35.7
W _L (gm)			0.38	0.45	0.42	0.40	0.49	0.45	0.39	0.46	0.43	0.34	0.57	0.49
Mesh (mm)			122			122			122			122		
Depth (m)			37-79			37-79			35-73			27-79		
AGE GROUP	70	2	7	1	8	11	1	12	9	1	10	19	-	19
	69	3	124	189	313	101	168	269	112	184	296	83	132	215
	68	4	79	94	173	72	105	177	72	100	172	63	104	167
	67	5	202	212	414	180	236	416	180	235	415	142	278	420
	66	6	36	37	73	37	55	92	33	47	80	41	100	141
	65	7	4	8	12	8	13	21	6	10	16	7	19	26
	64	8	4	3	7	5	6	11	4	5	9	1	3	4
	63	9	-	-	-	-	2	2	-	2	2	-	3	3
	62	10	-	-	-	-	-	-	-	-	-	-	3	3
	61	11	-	-	-	-	-	-	-	-	-	-	2	2
Total			456	544	1000	414	586	1000	416	584	1000	356	644	1000
Samples (A [†])			7	7	7	6	6	6	6	6	6	9	9	9
No. Aged			174	175	349	147	150	297	150	150	300	187	224	411

TABLE 38.2. LENGTH AND AGE FREQUENCIES - YELLOWTAIL 1972 - USA - 5Z (W of 69°) (CONT'D)

COUNTRY: USA		GEAR: Otter trawl												
Commercial landings														
Mid-point of length group (cm)	COMPOSITION OF CATCHES/LANDINGS													
	May			Jun			Jul			Aug				
	♂♂	♀♀	Total	♂♂	♀♀	Total	♂♂	♀♀	Total	♂♂	♀♀	Total		
26	3	-	3	-	-	-	-	-	-	-	-	-		
27	1	1	2	-	-	-	-	-	-	-	-	-		
28	8	1	9	-	-	-	-	-	-	-	-	-		
29	12	11	23	-	-	-	2	2	4	-	-	-		
30	42	17	59	15	11	26	28	7	35	-	-	-		
31	66	37	103	37	30	67	40	22	62	-	-	-		
32	67	63	130	42	94	136	50	64	114	9	17	26		
33	51	50	101	52	101	153	58	83	141	9	51	60		
34	37	87	124	45	112	157	62	101	163	17	78	95		
35	22	88	110	11	101	112	20	105	125	8	146	154		
36	12	84	96	-	97	97	17	97	114	8	130	138		
37	8	65	73	4	79	83	13	64	77	-	180	180		
38	9	38	47	-	82	82	6	44	50	-	113	113		
39	4	33	37	-	49	49	-	33	33	-	96	96		
40	5	16	21	4	19	23	4	44	48	-	60	60		
41	3	12	15	-	7	7	-	17	17	9	34	43		
42	4	15	19	-	4	4	-	11	11	-	26	26		
43	-	7	7	-	-	-	-	2	2	-	9	9		
44	1	3	4	-	-	-	-	2	2	-	-	-		
45	-	4	4	-	-	-	-	-	-	-	-	-		
46	-	3	3	-	4	4	-	2	2	-	-	-		
47	-	1	1	-	-	-	-	-	-	-	-	-		
48	-	4	4	-	-	-	-	-	-	-	-	-		
49	-	3	3	-	-	-	-	-	-	-	-	-		
50	-	1	1	-	-	-	-	-	-	-	-	-		
51	-	1	1	-	-	-	-	-	-	-	-	-		
			355	645	1000	210	790	1000	300	700	1000	60	940	1000
N _c (000)			5	5	5	7	7	7	4	4	4	1	1	1
W _c (tons)			269	489	758	56	211	267	163	381	544	7	110	117
Samples (L)			32.7	35.5	34.5	32.8	35.2	34.7	33.1	35.5	34.8	35.0	37.0	36.9
L (cm)			0.31	0.49	0.43	0.30	0.47	0.44	0.32	0.42	0.39	0.38	0.47	0.47
W (gm)			122			122			122			122		
Mesh (mm)			33-55			37-77			37-55			60-64		
Depth (m)			33-55			37-77			37-55			60-64		
AGE GROUP	70	2	29	2	31	15	-	15	116	154	270	14	162	176
	69	3	104	162	266	54	183	237	76	260	336	13	248	261
	59	4	60	103	163	35	136	171	37	104	141	6	158	164
	58	5	129	274	403	88	364	452	60	153	213	24	302	326
	57	6	25	88	113	15	100	115	11	14	25	3	27	30
	56	7	6	13	19	3	7	10	-	15	15	-	34	34
	55	8	1	1	2	-	-	-	-	-	-	-	-	-
	54	9	1	1	2	-	-	-	-	-	-	-	-	-
	53	10	-	1	1	-	-	-	-	-	-	-	-	-
	52	11	-	-	-	-	-	-	-	-	-	-	9	9
	Total			355	645	1000	210	790	1000	300	700	1000	60	940	1000
Samples (A)			7	7	7	2	2	2	4	4	4	2	2	2
No. Aged			155	175	330	26	50	76	100	100	200	40	50	90

TABLE 38.2. LENGTH AND AGE FREQUENCIES - YELLOWTAIL 1972 - USA - 5Z (W of 69°) (CONT'D)

COUNTRY: USA		GEAR: Otter trawl																																		
Commercial landings																																				
Mid-point of length group (cm)	COMPOSITION OF CATCHES/LANDINGS																																			
	Sep			Oct			Nov			Dec																										
	♂♂	♀♀	Total	♂♂	♀♀	Total	♂♂	♀♀	Total	♂♂	♀♀	Total																								
28	-	-	-	2	-	2	-	-	-	-	-	-																								
29	-	-	-	12	2	14	3	-	3	-	2	2																								
30	-	-	-	23	-	23	5	3	8	5	2	7																								
31	26	-	26	57	5	62	24	3	27	13	10	23																								
32	77	26	103	67	14	81	41	24	65	32	19	51																								
33	65	39	104	68	53	121	62	29	91	51	38	89																								
34	39	188	227	68	80	148	67	78	145	85	59	144																								
35	58	110	168	44	64	108	58	92	150	52	80	132																								
36	19	129	148	27	83	110	52	63	115	38	93	131																								
37	13	77	90	27	53	80	53	70	123	42	90	132																								
38	-	58	58	12	72	84	29	53	82	24	78	102																								
39	-	32	32	4	71	75	21	45	66	5	56	61																								
40	-	26	26	5	37	42	13	25	38	8	32	40																								
41	-	6	6	4	19	23	8	14	22	5	26	31																								
42	-	-	-	-	14	14	7	11	18	-	8	8																								
43	-	6	6	-	7	7	3	13	16	2	8	10																								
44	-	6	6	-	2	2	1	9	10	3	19	22																								
45	-	-	-	-	2	2	-	5	5	-	3	3																								
46	-	-	-	-	2	2	-	3	3	-	3	3																								
47	-	-	-	-	-	-	1	3	4	-	2	2																								
48	-	-	-	-	-	-	-	3	3	-	3	3																								
49	-	-	-	-	-	-	-	4	4	-	2	2																								
50	-	-	-	-	-	-	-	-	-	-	2	2																								
51	-	-	-	-	-	-	-	1	1	-	-	-																								
52	-	-	-	-	-	-	-	-	-	-	-	-																								
53	-	-	-	-	-	-	-	1	1	-	-	-																								
297 703 1000 420 580 1000 448 552 1000 365 635 1000																																				
N _c (000)																																				
W _c (tons)																																				
Samples (L)	1	1	1	4	4	4	6	6	6	5	5	5																								
No. Meas.	46	109	155	238	328	566	341	420	761	278	397	625																								
L (cm)	33.5	35.7	35.1	33.4	36.6	35.3	35.2	36.9	36.1	34.9	37.0	36.2																								
W (gm)	0.33	0.42	0.39	0.31	0.43	0.38	0.36	0.44	0.40	0.35	0.44	0.41																								
Mesh (mm)	122																																			
Depth (m)	68-71			55-70			33-79			33-57																										
AGE GROUP	70	2	99	157	256	163	197	360	126	191	317	110	204	314																						
	69	3	74	247	321	145	198	343	160	180	340	130	207	337																						
	68	4	43	111	154	41	64	105	59	56	115	45	72	117																						
	67	5	66	159	225	58	87	145	75	88	163	62	111	173																						
	66	6	15	13	28	10	28	38	18	26	44	12	32	44																						
	65	7	-	16	16	2	6	8	7	9	16	5	9	14																						
	64	8	-	-	-	1	-	1	3	1	4	1	-	1																						
	63	9	-	-	-	-	-	-	-	-	-	-	-	-																						
62	10	-	-	-	-	-	-	-	1	1	-	-	-																							
Total 297 703 1000 420 580 1000 448 552 1000 365 635 1000																																				
Samples (A)	1 1 1 5 5 5 6 6 6 5 5 5																																			
No. Aged	25			25			50			117			124			241			147			150			257			121			125			246		

TABLE 39.1. LENGTH AND AGE FREQUENCIES - GREENLAND HALIBUT 1972 - Denmark (G) - 1D, 1E

COUNTRY: DENMARK (G)		GEAR: Otter trawl (prawn and balloon), Gillnet			
Research catches					
Mid-point of length group (cm)	1D			1E	
	OT (prawn)	OT (balloon)	GN	OT (balloon)	
	Apr	Apr	Jul	Jun	
(2 cm)					
<10	-	4	-	-	-
10.5	52	16	-	-	-
12.5	35	122	-	-	-
14.5	4	101	-	-	-
16.5	18	25	-	-	-
18.5	4	17	-	-	-
20.5	43	13	-	-	-
22.5	154	42	-	-	-
24.5	126	50	-	-	-
26.5	62	25	-	-	8
28.5	26	22	-	-	4
30.5	83	37	-	-	12
32.5	144	22	-	-	17
34.5	123	50	-	-	29
36.5	74	54	-	-	21
38.5	13	35	-	-	33
40.5	8	101	-	-	33
42.5	5	34	-	-	54
44.5	9	3	-	-	63
46.5	4	34	-	-	59
48.5	-	12	-	-	46
50.5	-	16	-	-	29
52.5	-	8	-	-	26
54.5	9	25	10	-	96
56.5	-	8	19	-	75
58.5	-	17	39	-	58
60.5	4	17	97	-	63
62.5	-	8	78	-	88
64.5	-	4	155	-	58
66.5	-	21	145	-	50
68.5	-	17	165	-	42
70.5	-	4	87	-	8
72.5	-	12	68	-	8
74.5	-	8	77	-	8
76.5	-	4	20	-	4
78.5	-	-	-	-	-
80.5	-	-	20	-	4
82.5	-	-	20	-	-
84.5	-	-	-	-	-
86.5	-	8	-	-	-
88.5	-	-	-	-	-
90.5	-	4	-	-	4
	1000	1000	1000	1000	
N _c (000)					
W _c (tons)					
Samples (L)	1	1	4	1	
No. Meas.	229	238	103	240	
L (cm)	27.7	33.9	67.1	53.3	
W (gm)	-	-	-	-	
Mesh (mm)	36	40	-	-	
Depth (m)	275	300	350-525	240	

TABLE 41.1. LENGTH AND AGE FREQUENCIES - ARGENTINE 1972 - Japan - 4V, 4X, 5Ze

COUNTRY: JAPAN		GEAR: Otter trawl				
Commercial catches						
Mid-point of length group (cm)	4V		4X		5Ze	
	May		May		Mar	
LENGTH GROUP	17	3	-	-	-	-
	18	5	-	-	-	-
	19	6	-	-	-	-
	20	-	-	-	-	-
	21	4	-	20	-	-
	22	1	-	155	-	-
	23	3	-	380	-	-
	24	3	-	325	-	-
	25	-	-	35	-	-
	26	-	-	-	-	-
	27	-	-	-	-	-
	28	-	-	-	-	-
	29	-	-	5	-	-
	30	1	-	5	-	-
	31	10	-	5	-	188
	32	32	-	5	-	195
	33	78	-	10	-	278
	34	95	-	45	-	230
	35	119	-	5	-	31
	36	84	-	-	-	68
37	82	-	5	-	10	
38	70	-	-	-	-	
39	81	-	-	-	-	
40	77	-	-	-	-	
41	69	-	-	-	-	
42	71	-	-	-	-	
43	59	-	-	-	-	
44	47	-	-	-	-	
		1000	1000	1000		
	N_c (000)					
	W_c (tons)	205	2	50		
	Samples (L)	4	1	1		
	No. Meas.	793	200	191		
	\bar{L} (cm)	37.8	24.6	33.5		
	\bar{W} (gm)					
	Mesh (mm)					
	Depth (m)	202-422	180	309		
AGE GROUP						
	Total					
	Samples (A)					
	No. Aged					

TABLE 43.1. LENGTH AND AGE FREQUENCIES - WHITE HAKE 1972 - Canada (MQ) - 30, 3Ps, 4X

COUNTRY: CANADA (MQ)		GEAR: Longlines		
Commercial landings				
Mid-point of length group (cm)	30	3Ps		4X
	Aug	Aug		Aug
37	-	-		36
40	-	-		169
43	-	-		187
46	-	-		114
49	-	-		91
52	-	14		79
55	-	33		96
58	-	9		78
61	-	19		36
64	2	75		48
67	5	93		18
70	19	140		12
73	22	191		12
76	24	125		-
79	55	89		-
82	77	84		6
85	82	61		6
88	80	23		6
91	92	-		-
94	89	-		-
97	107	-		-
100	131	5		-
103	84	19		-
106	70	5		-
109	29	5		-
112	15	-		-
115	10	5		-
118	5	5		-
121	2	-		-
	1000	1000		1000
N _c (000)				
W _c (tons)				
Samples (L)	2			166
No. Meas.	414	225		50.2
L _i (cm)	93.0	74.3		1.18
W (gm)	7.00	3.55		-
Mesh (mm)	15	16		
Depth (m)	201-364	183-366		137-146
AGE GROUP				
Total				
Samples (A)				
No. Aged				

TABLE 44.1. LENGTH AND AGE FREQUENCIES - HERRING 1972 - Canada (MQ) - 3P, 4R

COUNTRY: Canada (MQ)			GEAR: Purse seine and Midwater trawl			
Commercial catches						
LENGTH GROUP	Mid-point of length group (cm)	3P		4R		
		Jan		Apr	May	
	22	1				
	23	-				
	24	-		-	1	
	25	-		19	6	
	26	2		44	40	
	27	-		54	71	
	28	8		39	68	
	29	3		52	46	
	30	2		50	36	
	31	18		59	41	
	32	60		76	69	
	33	157		109	123	
	34	264		109	187	
	35	199		150	150	
	36	201		156	108	
	37	72		75	44	
	38	11		8	8	
	39	2		-	1	
	40			-	1	
		1000		1000	1000	
	N _c (000)					
	W _c (tons) ¹					
	Samples (L)	1		6	15	
	No. Meas.	648		615	1431	
	\bar{L} (cm)	34.9		33.1	32.9	
	W (gm)					
	Mesh (mm)					
	Depth (m)					
AGE GROUP	70	2	1			
	69	3	2			
	68	4	11			
	67	5	-			
	66	6	-			
	65	7	155			
	64	8	253			
	63	9	214			
	62	10	117			
	61	11	76			
	60	12	98			
59	13	73				
Total		1000				
Samples (A)		1				
No. Aged		89				

¹ No landings reported

TABLE 44.2. LENGTH AND AGE FREQUENCIES - HERRING 1972 - Canada (MQ) - 4T

COUNTRY: Canada (MQ)			GEAR: Purse & Midwater trawl, Gillnets								
Commercial catches											
	Mid-point of length group (cm)	PS & MT					GN				
		May	Jul	Aug	Sep	Oct	May	Aug	Sep		
LENGTH GROUP	18	-	-	-	3	-					
	19	-	-	-	27	-					
	20	-	-	-	24	-					
	21	-	-	-	88	-					
	22	-	-	-	123	-					
	23	-	1	5	48	-					
	24	-	-	5	13	-					
	25	-	1	15	13	-	-	-	1		
	26	5	2	20	29	-	4	-	1		
	27	40	8	25	29	10	24	-	4		
	28	70	35	17	33	17	216	50	11		
	29	100	119	78	54	98	361	120	20		
	30	100	172	175	165	193	227	170	51		
	31	150	145	150	124	173	105	80	60		
	32	160	118	78	73	155	25	190	150		
	33	80	131	110	64	133	25	210	304		
	34	145	94	152	40	115	11	110	216		
	35	75	80	75	33	70	2	50	130		
	36	60	44	60	14	18	-	20	38		
	37	15	47	20	3	18	-	-	13		
38	-	1	10	-	-	-	-	1			
39	-	1	5	-	-	-	-	-			
40	-	1	-	-	-	-	-	-			
		1000	1000	1000	1000	1000	1000	1000			
N _c (000)		575	10558	6953	9926	5435	2122	1789	4161		
W _c (tons)											
Samples (L)		2	14	3	6	3	4	1	7		
No. Meas.		200	1419	400	701	399	449	100	800		
L _w (cm)		32.2	32.4	32.3	28.2	32.2	29.8	32.1	33.5		
W _w (gm)											
Mesh (mm)											
Depth (m)											
AGE GROUP	70	2	1	3	292	-	-	-	-		
	69	3	13	53	90	-	-	4	6		
	68	4	205	100	88	38	543	106	25		
	67	5	135	214	188	169	281	203	69		
	66	6	222	183	164	141	125	196	147		
	65	7	111	159	140	98	28	210	230		
	64	8	130	133	155	64	14	169	278		
	63	9	99	92	101	35	5	77	154		
	62	10	98	57	54	16	4	24	60		
	61	11	-	35	26	6	-	7	22		
	60	12	-	5	7	2	-	2	4		
		12+	-	8	21	1	-	2	5		
			1000	1000	1000	1000	1000	1000	1000		
Total		1000	1000	1000	1000	1000	1000	1000			
Samples (A)		3		3		1	*1	*1			
No. Aged		227	←	1253	→	94					

1 Age-length key same as used for purse seine and midwater trawl

TABLE 44.3. LENGTH AND AGE FREQUENCIES - HERRING 1972 - Canada (MQ) - 4Vn

COUNTRY: Canada (MQ)			GEAR: Purse seine & Midwater trawl, Trap				
Commercial catches							
Mid-point of length group (cm)		PS & MT			Trap		
		Jan	Nov	Dec	Jun	Jul	
LENGTH GROUP	14	-	-	1			
	15	-	-	-			
	16	-	-	-			
	17	-	-	1			
	18	-	-	-			
	19	-	-	-			
	20	-	2	12			
	21	3	1	18			
	22	18	3	25			
	23	47	10	40			
	24	24	14	37	3	-	
	25	9	15	20	27	10	
	26	9	8	15	27	-	
	27	50	19	26	90	30	
	28	32	46	59	293	50	
	29	59	43	83	210	170	
	30	47	61	77	80	110	
	31	129	48	50	40	30	
	32	179	65	64	67	40	
	33	150	108	94	40	100	
34	50	144	112	43	120		
35	85	160	69	47	120		
36	91	107	94	20	80		
37	12	82	56	13	130		
38	6	51	35	-	-		
39	-	10	12	-	10		
40	-	3	-	-	-		
		1000	1000	1000	1000	1000	
N _c (000)							
W _c (tons)		1897	4283	5631	37	10	
Samples (L)		2	8	11	1	1	
No. Meas.		340	1265	1366	300	100	
L (cm)		31.7	33.6	31.6	30.0	33.0	
W (gm)							
Mesh (mm)							
Depth (m)							
AGE GROUP	71	1	-	2	8		
	70	2	-	35	130		
	69	3	80	51	75	30	30
	68	4	127	123	180	439	240
	67	5	62	56	65	237	110
	66	6	231	101	96	104	70
	65	7	176	78	66	44	73
	64	8	128	163	111	41	168
	63	9	62	197	135	61	179
	62	10	84	97	64	44	51
	61	11	25	56	40	-	51
	60	12	25	20	18	-	2
	12+	-	21	12	-	29	
Total		1000	1000	1000	1000	1000	
Samples (A)		2	7		1	1	
No. Aged		185	634		289	89	

TABLE 44.4. LENGTH AND AGE FREQUENCIES - HERRING 1972 - Canada (MQ) - 4W(a)¹

COUNTRY: Canada (MQ)			GEAR: Purse seine & Midwater trawl, Trap			
Commercial catches						
Mid-point of length group (cm)	PS & MT				Trap	
	Jan	Feb	Mar		Jul	
LENGTH GROUP	21	7	-	5		
	22	37	3	26		
	23	89	11	60		
	24	114	44	79		
	25	89	18	86		
	26	80	20	80		
	27	79	51	67		10
	28	89	73	109		30
	29	60	61	63		50
	30	39	96	54		105
	31	58	165	72		170
	32	58	148	68		120
	33	55	147	80		170
	34	51	80	63		70
	35	26	48	37		95
	36	27	22	23		120
	37	13	10	14		55
	38	5	3	5		5
	39	2	-	8		
40	22	-	1			
		1000	1000	1000		1000
N _c (000)						
W _c (tons) ²		9977	3135	3614		110
Samples (L)		6	3	5		1
No. Meas.		2446	798	1158		200
W _L (cm)		28.7	31.2	29.3		33.1
W _L (gm)		0.189	0.220	0.181		0.308
Mesh (mm)						
Depth (m)						
AGE GROUP	69	3	219	48	157	
	68	4	353	167	338	-
	67	5	99	144	118	47
	66	6	102	264	127	133
	65	7	59	151	78	281
	64	8	72	142	95	159
	63	9	30	43	35	114
	62	10	42	30	34	144
	61	11	24	11	18	65
	60	12				40
					17	
Total		1000	1000	1000		1000
Samples (A)						1
No. Aged			8			190

¹ Chedabucto Bay area.

² Catches pertain to whole of Div. 4W.

TABLE 44.5. LENGTH AND AGE FREQUENCIES - HERRING 1972 - Canada (MQ) - 4X(a)¹

COUNTRY: Canada (MQ)		GEAR: Purse seine & Midwater trawl											
Commercial catches													
Mid-point of length group (cm)	COMPOSITION OF CATCHES/LANDINGS												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
9			5			-	-	-	-	-	-	-	-
10			72			-	-	-	-	-	-	-	-
11			167			-	-	-	1	-	-	-	-
12			216			1	-	-	-	-	-	-	-
13			332			1	2	-	-	-	-	-	-
14			125			4	5	-	-	-	-	5	-
15			72			16	20	-	-	-	-	26	-
16			9			18	45	1	-	-	-	97	-
17			2			11	72	1	1	-	-	261	-
18			-			13	120	6	1	-	-	319	-
19			-			11	108	40	1	-	-	124	-
20			-			6	107	130	11	-	-	30	-
21			-			4	116	218	82	-	-	8	-
22			-			1	65	234	148	-	-	-	-
23			-			4	24	144	168	-	-	-	-
24			-			6	5	19	61	-	-	-	-
25			-			12	10	8	21	-	-	-	-
26			-			28	15	7	42	13	-	-	-
27			-			35	17	8	51	83	4	-	-
28			-			67	36	23	62	172	26	-	-
29			-			105	51	34	100	262	42	-	-
30			-			117	46	38	84	205	36	-	-
31			-			106	37	27	60	156	14	-	-
32			-			131	38	23	41	80	4	-	-
33			-			137	29	17	21	13	4	-	-
34			-			109	19	12	19	13	-	-	-
35			-			45	10	6	12	3	-	-	-
36			-			10	3	3	8	-	-	-	-
37			-			-	-	1	4	-	-	-	-
38			-			1	-	-	1	-	-	-	-
39			-			-	-	-	-	-	-	-	-
			1000			1000	1000	1000	1000	1000	1000	1000	1000
N _c (000)													
W _c (tons) ²			-			2898	15610	27892	19589	10127	10208		
Samples (L)			1			8	20	22	7	2	3		
No. Meas.			648			1573	4510	5118	1711	302	771		
L (cm)			13.0			30.3	23.1	23.7	26.6	30.0	19.6		
W (gm)													
Mesh (mm)													
Depth (m)													
AGE GROUP	71	1				-	-	-	1	-	-	-	-
	70	2				84	683	767	423	-	870	-	-
	69	3				42	36	41	119	74	7	-	-
	68	4				189	105	72	214	601	88	-	-
	67	5				147	60	45	107	164	20	-	-
	66	6				178	52	33	64	125	11	-	-
	65	7				144	34	18	26	27	3	-	-
	64	8				151	25	17	25	9	1	-	-
	63	9				53	5	6	12	-	-	-	-
	62	10				10	-	1	5	-	-	-	-
	61	11				1	-	-	3	-	-	-	-
	60	12				1	-	-	1	-	-	-	-
Total			1000			1000	1000	1000	1000	1000	1000	1000	1000
Samples (A)			1			18		31			5		
No. Aged			92			1739		3107			497		

¹ Southwest Nova Scotia

² Catches pertain to Div. 4X

TABLE 44.5. LENGTH AND AGE FREQUENCIES - HERRING 1972 - Canada (MQ) - 4X(a)¹ (CONT'D)

COUNTRY: Canada (MQ)			GEAR: Weir, Gillnets								
Commercial catches											
Mid-point of length group (cm)	Weir					Gillnets					
	May	Jun	Jul	Aug	Sep	Jun	Jul	Aug	Sep		
11	-	10	-	-	-						
12	17	14	10	-	-						
13	83	68	34	-	-						
14	116	201	88	3	10						
15	129	272	162	13	40						
16	133	145	235	47	168						
17	123	95	231	117	138						
18	33	75	148	174	198						
19	13	19	62	90	228						
20	17	7	24	50	168						
21	-	2	4	10	30						
22	7	-	2	3	20						
23	-	-	-	-	-						
24	10	-	-	-	-						
25	7	1	-	15	-	-	-	2	-		
26	10	3	-	22	-	1	-	13	-		
27	20	3	-	57	-	6	24	45	4		
28	56	3	-	65	-	22	69	61	22		
29	86	12	-	117	-	58	170	103	89		
30	43	21	-	92	-	60	170	112	160		
31	27	11	-	57	-	97	125	124	182		
32	30	10	-	30	-	103	144	121	186		
33	20	14	-	25	-	169	135	153	169		
34	17	10	-	10	-	231	71	113	116		
35	3	2	-	3	-	143	66	72	58		
36	-	1	-	-	-	71	19	47	9		
37	-	1	-	-	-	32	5	24	-		
38	-	-	-	-	-	7	2	10	5		
			1000	1000	1000	1000	1000	1000	1000		
N _c (000)			515	4967	9069	10134	9059	1046	1419	1420	1086
W _c (tons) ²			515	4967	9069	10134	9059	1046	1419	1420	1086
Samples (L)			2	7	3	4	1	3	3	5	1
No. Meas.			301	1204	501	401	101	720	423	961	225
L (cm)			20.5	17.2	16.8	24.0	18.5	33.5	31.7	32.2	32.2
W (gm)											
Mesh (mm)											
Depth (m)											
AGE GROUP	70	2	660	904	1000	531	1000				
	69	3	36	7	-	168	-	2	15	35	3
	68	4	131	18	-	225	-	70	279	213	165
	67	5	72	21	-	50	-	88	208	159	214
	66	6	47	18	-	21	-	146	192	177	249
	65	7	27	14	-	5	-	156	124	137	167
	64	8	23	13	-	-	-	283	112	150	143
	63	9	4	5	-	-	-	177	51	76	51
	62	10						52	11	29	8
	61	11						18	6	17	5
	60	12						8	1	6	-
	59	13						-	1	1	-
	Total			1000	1000	1000	1000	1000	1000	1000	1000
Samples (A)			18		31		18		31		
No. Aged			1739		3107		1739		3107		

¹ Southwest Nova Scotia

² Catches pertain to Div. 4X

TABLE 44.6. LENGTH AND AGE FREQUENCIES - HERRING 1972 - Canada (MQ) - 4X(b)¹

COUNTRY: Canada (MQ)			GEAR: Purse seine & Midwater trawl										
Commercial catches													
Mid-point of length group (cm)	COMPOSITION OF CATCHES/LANDINGS												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
LENGTH GROUP	8					-	15	-		-	-	-	
	9					-	2	-		-	-	6	
	10					3	51	-		-	3	25	
	11					73	141	-		-	13	86	
	12					274	104	-		-	8	75	
	13					374	128	-		-	5	39	
	14					193	218	-		-	3	17	
	15					50	230	-		5	8	8	
	16					23	89	2		45	52	8	
	17					10	15	3		144	181	8	
	18					-	5	35		142	253	64	
	19					-	-	174		100	226	100	
	20					-	-	293		49	105	247	
	21					-	2	265		49	66	186	
	22					-	-	143		58	45	111	
	23					-	-	52		59	24	17	
	24					-	-	11		55	5	-	
	25					-	-	10		28	3	-	
	26					-	-	6		7	-	-	
	27					-	-	4		3	-	-	
	28					-	-	1		6	-	-	
	29					-	-	-		4	-	-	
	30					-	-	1		12	-	-	
	31					-	-	-		27	-	-	
	32					-	-	-		41	-	3	
	33					-	-	-		57	-	-	
	34					-	-	-		73	-	-	
	35					-	-	-		24	-	-	
	36					-	-	-		11	-	-	
	37					-	-	-		1	-	-	
							1000	1000	1000		1000	1000	1000
	N _c (000)						2898	15610	27892		10127	10208	927
	W _c (tons) ²												
	Samples (L)						1	3	4		6	3	4
	No. Meas.						330	587	1159		1587	380	360
	L (cm)						13.4	13.9	21.1		23.5	18.9	18.6
	W (gm)												
Mesh (mm)													
Depth (m)													
AGE GROUP	71	1				-	18	-		-	28	221	
	70	2				1000	980	944		730	971	776	
	69	3				-	2	52		18	1	-	
	68	4				-	-	4		20	-	-	
	67	5				-	-	-		21	-	-	
	66	6				-	-	-		66	-	3	
	65	7				-	-	-		53	-	-	
	64	8				-	-	-		56	-	-	
	63	9				-	-	-		25	-	-	
	62	10				-	-	-		8	-	-	
	61	11				-	-	-		3	-	-	
Total						1000	1000	1000		1000	1000	1000	
Samples (A)						13	23			19			
No. Aged						1284	2230			1540			

¹ New Brunswick side of Bay of Fundy

² Catches pertain to whole of Div. 4X

TABLE 44.6. LENGTH AND AGE FREQUENCIES - HERRING 1972 - Canada (MQ) - 4X(b)¹ (CONT'D)

COUNTRY: Canada (MQ)		GEAR: Weir										
Commercial catches												
Mid-point of length group (cm)	COMPOSITION OF CATCHES/LANDINGS											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
LENGTH GROUP	8				-	1	2	-	-	-	-	-
	9				7	15	1	-	-	-	-	-
	10				27	82	9	-	-	-	1	-
	11				30	92	20	-	-	-	1	1
	12				30	88	16	-	-	-	5	-
	13				27	81	19	14	1	8	1	-
	14				30	109	41	50	4	17	1	-
	15				80	156	103	81	12	67	19	-
	16				183	146	198	153	59	165	34	-
	17				223	138	212	199	130	139	97	-
	18				160	63	150	156	219	170	125	-
	19				146	20	71	138	242	137	111	-
	20				37	7	28	81	168	99	151	-
	21				3	-	14	34	117	75	149	-
	22				10	1	7	18	31	61	147	-
	23				-	-	1	6	11	23	97	-
	24				7	-	1	-	1	20	42	-
	25				-	1	2	6	-	6	19	-
	26				-	-	3	14	-	1	4	-
	27				-	-	8	16	1	1	-	-
28				-	-	19	13	-	-	1	-	
29				-	-	24	9	1	2	1	-	
30				-	-	19	5	2	-	-	-	
31				-	-	10	4	1	-	-	-	
32				-	-	6	2	-	-	-	-	
33				-	-	6	1	-	-	-	-	
34				-	-	7	-	-	2	-	-	
35				-	-	3	-	-	-	-	-	
					1000	1000	1000	1000	1000	1000	1000	
N _c (000)												
W _c (tons) ²												
Samples (L)												
No. Meas.												
L (cm)												
W (gm)												
Mesh (mm)												
Depth (m)												
AGE GROUP	71	1			-	1	39	-	-	15	2	
	70	2			960	989	853	928	988	977	986	
	69	3			31	9	22	39	10	4	12	
	68	4			9	1	43	23	2	2	-	
	67	5			-	-	21	7	-	-	-	
	66	6			-	-	6	2	-	-	-	
	65	7			-	-	10	1	-	1	-	
	64	8			-	-	3	-	-	1	-	
	63	9			-	-	3	-	-	-	-	
Total												
Samples (A)												
No. Aged												

¹ New Brunswick side of Bay of Fundy

² Catches pertain to whole of Div. 4X

TABLE 44.7. LENGTH AND AGE FREQUENCIES - HERRING 1972 - Canada (MQ) - 5Y

COUNTRY: Canada (MQ)			GEAR: Purse seine, Midwater trawl			
Commercial catches						
Mid-point of length group (cm)	5Y (north)			5Y (south) ¹		
	Sep			Apr	May	
LENGTH GROUP	18	50		-	-	
	19	90		-	-	
	20	190		-	-	
	21	320		-	-	
	22	260		-	-	
	23	70		-	-	
	24	10		-	-	
	25	10		-	-	
	26	-		-	-	
	27	-		3	-	
	28	-		17	10	
	29	-		63	40	
	30	-		97	85	
	31	-		164	160	
	32	-		213	237	
	33	-		223	197	
	34	-		123	170	
35	-		77	72		
36	-		13	22		
37	-		7	7		
		1000		1000	1000	
N _c (000)				1086	2105	
W _c (tons) ²		2380				
Samples (L)		1		1	2	
No. Meas.		100		300	401	
M _L (cm)		21.4		32.6	32.8	
M _W (gm)						
Mesh (mm)						
Depth (m)						
AGE GROUP	70	2	1000			
	69	3	-			
	68	4	-		40	27
	67	5	-		90	69
	66	6	-		245	240
	65	7	-		313	315
	64	8	-		154	172
	63	9	-		111	127
	62	10	-		43	46
	61	11	-		4	4
Total			1000	1000	1000	
Samples (A)			2		2	
No. Aged			200		183	

¹ Jeffreys Ledge area

² Catches pertain to 5Y

TABLE 45.1. LENGTH AND AGE FREQUENCIES - HERRING 1972 - Canada (N) - 3L (St. Mary's Bay)

COUNTRY: CANADA (N)			GEAR: Purse seine, Beach seine									
Commercial catches												
Mid-point of length group (cm)	PS			BS								
	Apr			May			Jun					
	SS ¹	AS ¹	Total	SS	AS	Total	SS	AS	Total			
LENGTH GROUP	27		40	-	40	5	-	5	20	-	20	
	28		290	-	290	165	-	165	120	-	120	
	29		370	-	370	305	-	305	280	-	280	
	30		220	-	220	300	-	300	220	-	220	
	31		20	-	20	55	-	55	80	-	80	
	32		20	-	20	40	5	45	80	-	80	
	33		10	-	10	60	-	60	40	-	40	
	34		10	-	10	30	5	35	40	-	40	
	35		-	-	-	10	-	10	80	-	80	
	36		10	-	10	5	-	5	20	20	40	
	37		-	-	-	5	5	10	-	-	-	
	38		-	-	-	5	-	5	-	-	-	
	39		-	10	10	-	-	-	-	-	-	
				990	10	1000	985	15	1000	980	20	1000
	N _c (000)											
	W _c (tons)											
	Samples (L)			-	-	-	-	-	-	-	-	-
	No. Meas.			99	1	100	197	3	200	49	1	50
	L (cm)			29.0	38.8	29.1	29.9	34.4	29.9	30.4	35.8	30.5
W (gm)			0.180	0.403	0.182	0.194	0.273	0.195	0.190	0.287	0.191	
Mesh (mm)												
Depth (m)												
AGE GROUP	69	3	10	-	10	-	-	-	-	-	-	
	68	4	920	-	920	740	-	740	660	-	660	
	67	5	10	-	10	25	5	30	20	-	20	
	66	6	20	-	20	100	-	100	120	-	120	
	65	7	10	-	10	15	-	15	20	-	20	
	64	8	10	-	10	35	-	35	80	-	80	
	63	9	10	-	10	-	5	5	-	-	-	
	62	10	-	-	-	5	5	10	-	-	-	
		10+	-	10	10	15	-	15	80	20	100	
Total			990	10	1000	985	15	1000	980	20	1000	
Samples (A)												
No. Aged			99	1	100	197	3	200	49	1	50	

¹ SS = Spring spawners; AS = Autumn spawners

TABLE 45.2. LENGTH AND AGE FREQUENCIES - HERRING 1972 - Canada (N) - 3P (Placentia Bay)

COUNTRY: CANADA (N)			GEAR: Purse seine, Beach seine							
Commercial catches										
Mid-point of length group (cm)	PS						BS			
	Mar						May			
	SS ¹	AS ¹	Total				SS	AS	Total	
LENGTH GROUP	20	1	-	1				-	-	-
	21	-	-	-				-	-	-
	22	-	-	-				-	-	-
	23	-	-	-				-	-	-
	24	-	1	1				-	-	-
	25	-	-	-				-	-	-
	26	-	-	-				-	-	-
	27	10	1	11				20	-	20
	28	103	10	113				70	10	80
	29	239	1	240				130	-	130
	30	228	1	229				210	30	240
	31	116	4	120				130	20	150
	32	152	3	155				230	30	260
	33	76	3	79				70	10	80
	34	13	6	19				10	-	10
	35	6	4	10				20	-	20
	36	4	6	10				-	-	-
	37	1	4	5				-	-	-
	38	2	2	4				10	-	10
39	-	3	3				-	-	-	
		951	49	1000			900	100	1000	
N _c (000)										
W _c (tons)										
Samples (L)										
No. Meas.		761	39	800			90	10	100	
L (cm)		30.3	32.6	30.4			30.8	31.0	30.8	
W (gm)		0.212	0.256	0.214			0.205	0.199	0.204	
Mesh (mm)										
Depth (m)										
AGE GROUP	69	3	1	3	4			-	-	-
	68	4	636	6	642			460	-	460
	67	5	39	11	50			40	50	90
	66	6	239	1	240			330	-	330
	65	7	16	4	20			-	50	50
	64	8	12	3	15			20	-	20
	63	9	5	10	15			30	-	30
	62	10	-	3	3			-	-	-
		10+	3	8	11			20	-	20
Total		951	49	1000			900	100	1000	
Samples (A)										
No. Aged		761	39	920			90	10	100	

¹ SS = Spring spawners; AS = Autumn spawners

TABLE 45.4. LENGTH AND AGE FREQUENCIES - HERRING 1972 - Canada (N) - 3P (SW Nfld.)

COUNTRY: CANADA (N)			GEAR: Purse seine										
Commercial catches													
Mid-point of length group (cm)	Jan			Feb			Apr			Dec			
	SS ¹	AS ¹	Total	SS	AS	Total	SS	AS	Total	SS	AS	Total	
LENGTH GROUP	18	-	-	-	-	-	-	7	7	-	-	-	
	19	-	-	-	-	-	-	-	-	-	-	-	
	20	-	-	-	-	3	3	-	-	-	-	-	
	21	-	-	-	-	-	-	20	-	20	-	1	1
	22	-	-	-	-	-	-	13	-	13	-	-	-
	23	-	-	-	-	-	-	13	-	13	-	-	-
	24	-	-	-	-	-	-	7	-	7	-	-	-
	25	-	-	-	-	-	-	13	7	20	-	1	1
	26	-	-	-	-	-	-	-	13	13	-	3	3
	27	-	-	-	-	-	-	13	-	13	3	6	9
	28	-	-	-	-	3	3	46	7	53	26	8	34
	29	2	1	3	11	-	11	80	7	97	95	14	109
	30	4	5	9	11	-	11	107	27	134	106	13	119
	31	5	6	11	11	-	11	234	-	234	56	7	63
	32	10	41	51	9	20	29	93	-	93	43	3	46
	33	30	118	148	26	34	60	80	7	87	34	2	36
	34	43	199	242	48	134	182	53	-	53	36	18	54
	35	38	261	299	43	175	218	73	-	73	57	40	97
	36	31	142	173	23	237	260	47	13	60	59	79	138
	37	15	36	51	3	160	163	13	-	13	64	75	139
	38	2	7	9	6	43	49	-	7	7	37	48	85
	39	2	1	3	-	-	-	-	-	-	18	29	47
	40	1	-	1	-	-	-	-	-	-	2	11	13
41	-	-	-	-	-	-	-	-	-	2	1	3	
42	-	-	-	-	-	-	-	-	-	1	1	2	
43	-	-	-	-	-	-	-	-	-	-	1	1	
		183	817	1000	191	809	1000	905	95	1000	639	361	1000
N _c (000)													
W _c (tons)													
Samples (L)		-	-	-	-	-	-	-	-	-	-	-	-
No. Meas. (cm)		201	899	1100	67	283	350	136	14	150	604	341	945
W (gm)		0.326	0.301	0.306	0.293	0.296	0.295	0.235	0.191	0.231	0.296	0.333	0.309
Mesh (mm)													
Depth (m)													
AGE GROUP	70	2	-	-	-	-	-	66	7	73	-	-	-
	69	3	-	-	-	-	-	7	20	27	11	1	12
	68	4	9	1	10	25	-	233	40	273	19	31	50
	67	5	7	4	11	6	3	387	7	394	290	19	309
	66	6	6	4	10	14	3	40	-	40	48	5	53
	65	7	16	16	32	8	26	133	7	140	24	5	29
	64	8	20	53	73	26	40	-	-	-	41	4	45
	63	9	26	108	134	20	89	40	-	40	25	13	38
	62	10	31	71	102	29	97	-	-	-	16	23	39
		10+	68	560	628	63	548	611	-	13	13	165	260	425
Total		183	817	1000	191	809	1000	906	94	1000	639	361	1000
Samples (A)													
No. Aged		201	899	1100	67	283	350	136	14	150	604	341	945

¹ SS = Spring spawners; AS = Autumn spawners

TABLE 45.5. LENGTH AND AGE FREQUENCIES - HERRING 1972 - Canada (N) - 3P (SW Nfld.), 4R (St. Georges Bay)

COUNTRY: CANADA (N)			GEAR: Beach seine, Purse seine					
Commercial catches								
LENGTH GROUP	Mid-point of length group (cm)	3P (BS)			4R (PS)			
		Jan			May			
		SS ¹	AS ¹	Total	SS	AS	Total	
	26	-	-	-	10	-	10	
	27	-	-	-	33	7	40	
	28	-	-	-	20	3	23	
	29	-	-	-	17	-	17	
	30	20	-	20	27	6	33	
	31	5	5	10	10	13	23	
	32	25	20	45	33	24	57	
	33	55	25	80	47	70	117	
	34	90	100	190	87	87	174	
	35	70	170	240	67	106	173	
	36	40	225	265	100	87	187	
	37	10	105	115	50	43	93	
	38	-	35	35	23	14	37	
	39	-	-	-	10	3	13	
	40	-	-	-	3	-	3	
		315	685	1000	537	463	1000	
	N _c (000)							
	W _c (tons)							
	Samples (L)	-	-	-	-	-	-	
	No. Meas.	63	137	200	161	137	300	
	L _r (cm)	33.9	35.4	35.0	33.7	34.5	34.0	
	W (gm)	0.293	0.287	0.289	0.289	0.295	0.292	
	Mesh (mm)							
	Depth (m)							
AGE GROUP	69	3	5	-	5	-	-	
	68	4	20	-	20	-	96	
	67	5	-	-	-	-	37	
	66	6	15	10	25	20	57	
	65	7	15	10	25	30	77	
	64	8	40	15	55	47	110	
	63	9	65	105	170	57	50	107
	62	10	40	65	105	37	70	107
		10+	115	480	595	20	60	80
						186	180	366
Total		315	685	1000	537	463	1000	
Samples (A)								
No. Aged		63	137	200	161	137	300	

¹ SS = Spring spawners; AS = Autumn spawners

TABLE 46.1. LENGTH AND AGE FREQUENCIES - HERRING 1972 - Fed.Rep. Germany - 5Y (south), 5Ze

COUNTRY: Fed.Rep. GERMANY			GEAR: Pelagic trawl			
Commercial catches						
Mid-point of length group (cm)	5Y (south)			5Ze		
	Oct			Aug	Sep	Oct
19	-			-	-	1
20	-			-	-	3
21	-			-	1	6
22	-			-	4	11
23	-			-	5	14
24	-			-	2	14
25	-			-	2	7
26	-			2	13	11
27	7			10	41	45
28	33			30	62	85
29	107			70	116	139
30	119			131	170	197
31	168			191	190	185
32	205			220	176	141
33	159			205	117	86
34	135			97	69	39
35	56			40	27	14
36	9			4	5	2
37	2			-	-	-
		1000		1000	1000	1000
N _c (000)						
W _c (tons)		753 ¹		5911 ²	9851 ²	11493 ²
Samples (L)		1		5	37	34
No. Meas.		429		1823	14972	15943
L (cm)		32.2		32.2	31.3	30.6
W (gm)		0.245		0.288	0.253	0.216
Mesh (mm)						
Depth (m)						
AGE GROUP	70	2	-	-	12	50
	69	3	27	23	73	97
	68	4	160	188	271	358
	67	5	180	169	178	161
	66	6	160	254	211	172
	65	7	88	142	101	75
	64	8	151	74	51	28
	63	9	68	52	35	13
		9+	166	98	68	46
Total		1000		1000	1000	1000
Samples (A)		1		21		13
No. Aged		97		1355		757

¹ Catches pertain to Div. 5Y

² Catches pertain to Div. 5Z

TABLE 47.1. LENGTH AND AGE FREQUENCIES - HERRING 1972 - Japan - 4V, 5Ze, 6A

COUNTRY: JAPAN		GEAR: Otter trawl			
Commercial catches					
Mid-point of length group (cm)	4V		5Ze	6A	
	May		Apr	Mar	Apr
LENGTH GROUP	12	-	-	21	-
	13	-	-	62	-
	14	-	-	164	-
	15	-	-	174	-
	16	-	-	179	-
	17	-	-	133	-
	18	-	-	103	13
	19	-	-	72	43
	20	-	-	51	43
	21	-	-	26	118
	22	-	-	44	10
	23	-	-	83	5
	24	-	-	108	-
	25	-	-	127	-
	26	10	-	148	-
	27	32	-	191	-
	28	27	-	172	-
	29	12	-	78	-
	30	25	-	39	-
	31	57	-	10	-
	32	204	-	-	-
33	353	-	-	-	
34	214	-	-	-	
35	42	-	-	-	
36	22	-	-	-	
37	-	-	-	-	
38	-	-	-	-	
39	-	-	-	-	
40	-	-	-	-	
41	-	-	-	-	
42	-	-	-	-	
	1000		1000	1000	1000
N _c (000)					
W _c (tons)	561		2	-	-
Samples (L)	2		1	1	2
No. Meas.	407		204	195	398
L (cm)	33.0		26.7	16.7	23.8
W (gm)					
Mesh (mm)					
Depth (m)	101-126		150	130	72-83
AGE GROUP					
Total					
Samples (A)					
No. Aged					

TABLE 48.1. LENGTH AND AGE FREQUENCIES - HERRING 1972 - Poland - 5Z, 6

COUNTRY: POLAND			GEAR: Otter trawl				
Commercial catches							
Mid-point of length group (cm)	5Z			6A	6B		
	Aug	Sep	Oct	Apr	Apr		
LENGTH GROUP	16	-	-	-	15	-	
	17	-	-	-	63	-	
	18	-	-	-	105	-	
	19	-	-	-	28	-	
	20	2	7	-	3	-	
	21	16	6	-	1	-	
	22	91	34	-	-	-	
	23	209	103	-	1	-	
	24	136	121	-	2	-	
	25	17	28	-	7	-	
	26	18	4	2	7	-	
	27	48	14	13	4	-	
	28	73	42	50	13	19	
	29	67	59	85	41	62	
	30	78	93	171	88	129	
	31	67	141	252	155	210	
	32	92	121	186	173	194	
	33	43	111	142	151	217	
	34	28	70	68	89	111	
35	11	35	21	38	45		
36	4	13	8	15	9		
37	-	3	2	1	2		
38	-	1	-	-	2		
	1000	1000	1000	1000	1000		
N _c (000)		1885	14249	13270	1463	2038	
W _c (tons)		7	15	6	3	7	
Samples (L)		7078	13083	3218	1052	2651	
No. Meas.		26.9	29.2	31.3	28.8	31.9	
L̄ (cm)							
W̄ (gm)							
Mesh (mm)							
Depth (m)							
AGE GROUP	70	2	463	282	-	205	-
	69	3	82	41	28	11	-
	68	4	93	62	89	41	38
	67	5	155	200	312	74	128
	66	6	86	142	253	205	181
	65	7	69	129	155	203	279
	64	8	24	61	91	108	145
	63	9	17	47	46	95	141
	62	10	5	14	12	52	49
		10+	6	22	14	6	39
Total		1000	1000	1000	1000	1000	
Samples (A)		-	-	-	-	-	
No. Aged		2117	393		293	678	

TABLE 49.1. LENGTH AND AGE FREQUENCIES - HERRING 1972 - USSR - 4Vs, 4X

COUNTRY: USSR		GEAR: Otter trawl			
Commercial catches					
Mid-point of length group (cm)	4Vs			4X	
	Mar	Apr		Jul	
LENGTH GROUP	24	-	41		-
	25	-	-		-
	26	-	-		-
	27	-	10		4
	28	-	31		17
	29	1	31		194
	30	5	72		335
	31	10	93		248
	32	25	134		135
	33	63	155		34
	34	99	227		21
	35	180	124		4
	36	239	51		8
	37	233	21		-
	38	111	10		-
	39	28	-		-
40	6	-		-	
		1000	1000		1000
N _c (000)					
W _c (tons) ¹		213	1044		2425
Samples (L)		38	1		1
No. Meas.		7600	97		237
L _c (cm)		35.8	32.5		30.5
W (gm)		0.33	0.26		0.25
Mesh (mm)		40	40		40
Depth (m)		100-200	-		90-200
AGE GROUP	68	4	-	41	(No age-length keys reported)
	67	5	4	103	
	66	6	9	134	
	65	7	33	196	
	64	8	97	175	
	63	9	153	187	
	62	10	143	83	
	61	11	170	51	
60	12	193	30		
59	13	180	-		
	13+	18	-		
Total		1000	1000		
Samples (A)		2	1		
No. Aged		291	97		

¹ Catches include 70 (Mar), 1025 (Apr) and 2408 (Jul) by purse seine

TABLE 49.2. LENGTH AND AGE FREQUENCIES - HERRING 1972 - USSR - 4W

COUNTRY: USSR		GEAR: Otter trawl											
Commercial catches													
Mid-point of length group (cm)	COMPOSITION OF CATCHES/LANDINGS												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
22	-	-	-	2	-	-	-	-	-	-	-	-	
23	-	15	1	12	-	-	-	-	-	-	-	-	
24	5	30	8	19	-	-	2	-	-	-	-	-	
25	8	90	40	41	-	-	3	-	-	-	-	-	
26	17	194	70	25	-	-	9	-	-	-	-	-	
27	33	138	78	25	11	-	28	-	-	-	-	-	
28	77	148	131	81	19	-	54	2	-	1	2	-	
29	95	174	189	87	31	15	88	6	-	1	8	-	
30	128	115	210	95	46	35	170	7	30	26	75	-	
31	117	46	82	103	47	75	280	16	19	30	138	-	
32	165	30	82	118	80	130	217	28	98	76	155	-	
33	178	9	60	103	117	280	92	86	188	151	237	-	
34	87	8	24	104	158	255	44	247	226	202	228	-	
35	53	3	16	102	169	140	13	336	241	291	120	-	
36	15	-	8	56	167	45	-	176	109	131	32	-	
37	17	-	1	17	94	15	-	67	56	66	5	-	
38	-	-	-	10	48	10	-	23	22	20	-	-	
39	5	-	-	-	11	-	-	6	11	4	-	-	
40	-	-	-	-	2	-	-	-	-	1	-	-	
LENGTH GROUP		1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
N _c (000)		-	-	-	-	-	-	-	-	-	-	-	
W _c (tons)		-	16	344 ¹	3758 ¹	7281 ¹	1659	1375	551	227	83	6	
Samples (L)		2	4	9	4	4	1	4	30	3	6	2	
No. Meas.		400	800	1455	517	2838	200	951	6293	266	693	400	
L (cm)		31.4	27.8	29.4	31.3	34.1	33.3	30.9	34.8	34.2	34.4	32.9	
W (gm)		0.235	0.159	0.178	0.236	0.315	0.252	0.205	0.337	0.324	0.328	0.268	
Mesh (mm)		40	40	40	40	40	40	40	40	40	40	40	
Depth (m)		175-260	90-110	86-127	45-165	155	130-140	85	50-155	130-155	15-165	65-75	
AGE GROUP	69	3	5	56	16	(No age-length keys reported)			2	-	-	(No age-length keys reported)	
	68	4	72	403	195	(No age-length keys reported)			81	2	-	(No age-length keys reported)	
	67	5	221	373	406	(No age-length keys reported)			166	8	14	(No age-length keys reported)	
	66	6	171	107	179	(No age-length keys reported)			349	29	74	(No age-length keys reported)	
	65	7	228	40	108	(No age-length keys reported)			295	104	187	(No age-length keys reported)	
	64	8	152	13	53	(No age-length keys reported)			75	221	241	(No age-length keys reported)	
	63	9	99	7	30	(No age-length keys reported)			26	258	207	(No age-length keys reported)	
	62	10	20	1	8	(No age-length keys reported)			5	187	129	(No age-length keys reported)	
61	11	32	-	5	(No age-length keys reported)			1	102	69	(No age-length keys reported)		
60	12	-	-	-	(No age-length keys reported)			-	58	48	(No age-length keys reported)		
	12+	-	-	-	(No age-length keys reported)			-	31	31	(No age-length keys reported)		
Total		1000	1000	1000				1000	1000	1000			
Samples (A)		5					13						
No. Aged		493					649						

¹ Catches include 55 (Mar), 3695 (Apr) and 5099 (May) by purse seines.

TABLE 49.3. LENGTH AND AGE FREQUENCIES - HERRING 1972 - USSR - 5Z, 6

COUNTRY: USSR			GEAR: Otter trawl									
Commercial catches												
Mid-point of length group (cm)	6			5Z								
	Feb	Apr	May	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
18				-	-	-	-	-	-	2	-	-
19				-	-	1	-	-	-	6	2	-
20				-	-	2	-	-	-	13	11	7
21				-	-	1	2	-	1	12	22	34
22				-	-	-	3	1	6	31	75	87
23				-	-	1	1	2	15	51	153	173
24				-	-	10	1	1	10	70	218	259
25				-	-	27	14	6	7	82	236	242
26				-	-	56	79	43	20	48	97	123
27	30	-	-	-	5	132	149	113	76	41	24	21
28	68	55	3	135	57	212	193	126	86	72	24	16
29	110	164	11	500	205	195	209	190	119	91	20	14
30	195	345	114	270	359	147	195	229	172	157	32	9
31	297	254	188	14	181	86	86	127	172	128	30	8
32	188	127	288	67	114	68	52	80	141	101	31	5
33	62	55	231	14	58	37	10	35	93	55	12	1
34	45	-	111	-	15	17	4	30	55	29	6	1
35	5	-	46	-	5	6	2	14	25	9	5	-
36	-	-	7	-	1	2	-	2	2	2	2	-
37	-	-	1	-	-	-	-	1	-	-	-	-
LENGTH GROUP												
1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000												
N _c (000)												
W _c (tons)												
Samples (L)												
No. Meas.												
L (cm)												
W (gm)												
Mesh (mm)												
Depth (m)												
70 2 - - - - - 4 5 2 11 36 45 48												
69 3 - - - - - 10 16 9 26 199 579 657												
68 4 10 - - - - - 19 11 192 224 148 93 167 228 250												
67 5 310 338 79 756 478 504 494 439 308 132 33 19												
66 6 296 387 202 163 318 166 175 218 224 191 42 15												
65 7 296 212 353 50 142 84 62 101 170 163 42 8												
64 8 64 60 255 12 41 27 18 47 100 79 20 3												
63 9 24 3 72 - 4 8 5 32 62 31 10 -												
62 10 - - 31 - 6 5 1 4 6 2 1 -												
61 11 - - 8 - - - - 1 - - - -												
AGE GROUP												
Total												
Samples (A)												
No. Aged												

¹ Catches include 2953 (May), 5806 (Jun), 4779 (Jul), 6430 (Aug), 3287 (Sep) and 192 (Oct) by purse seine.

TABLE 50.1. LENGTH AND AGE FREQUENCIES - HERRING 1972 - USA - 5Y (north)¹

COUNTRY: USA			GEAR: Not reported										
Commercial catches													
Mid-point of length group (cm)	COMPOSITION OF CATCHES/LANDINGS												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
LENGTH GROUP	9			-	-	-	2	-	-	1			
	10			-	2	12	10	-	-	2			
	11			-	28	24	23	1	-	2			
	12			-	90	40	26	2	-	1			
	13			-	113	56	47	8	1	3			
	14			-	55	81	52	19	3	10			
	15			-	92	119	78	46	9	26			
	16			-	186	206	140	90	59	60			
	17			-	218	207	164	143	107	68			
	18			-	130	126	179	210	182	70			
	19			-	62	76	112	214	225	160			
	20			-	22	42	86	148	154	177			
	21			-	-	9	42	66	109	117			
	22			-	-	-	6	35	47	111			
	23			-	-	1	1	1	26	91			
	24			-	2	1	2	1	3	30			
	25			-	-	-	5	4	14	6			
	26			-	10	-	6	4	35	16			
	27			-	10	-	2	2	16	29			
	28			-	140	-	5	1	5	13			
	29			-	240	-	3	1	3	5			
	30			-	200	-	2	2	1	1			
	31			-	220	-	3	1	1	-			
	32			-	100	-	3	-	-	1			
	33			-	40	-	2	-	-	1			
	34			-	30	-	-	-	-	-			
	35			-	10	-	-	-	-	-			
					1000	1000	1000	1000	1000	1000	1000		
	N _c (000)												
	W _c (tons) ²				870	804	3300	9360	12236	7156	3286		
	Samples (L)				1	6	20	32	27	26	15		
	No. Meas.				100	400	1707	2501	1819	1920	1046		
	L (cm)				30.6	16.2	16.6	17.7	18.9	20.4	20.7		
	W (gm)				0.202	0.041	0.040	0.059	0.058	0.067	0.070		
	Mesh (mm)												
Depth (m)													
AGE GROUP	71	1		-	-	-	-	-	-	14			
	70	2		-	998	998	959	968	901	899			
	69	3		-	2	2	19	22	61	74			
	68	4		10	-	-	8	5	26	11			
	67	5		90	-	-	4	3	10	-			
	66	6		753	-	-	5	2	2	-			
	65	7		147	-	-	5	-	-	2			
Total				1000	1000	1000	1000	1000	1000	1000			
Samples (A)					?			71		14			
No. Aged					510			2123		420			

¹ Inshore, north of New Hampshire-Maine border.

² Catches pertain to all of Div. 5Y

TABLE 50.2. LENGTH AND AGE FREQUENCIES - HERRING 1972 - USA - 5Y (south)¹

COUNTRY: USA			GEAR: Not reported									
Commercial catches												
Mid-point of length group (cm)	COMPOSITION OF CATCHES/LANDINGS											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
LENGTH GROUP	12			-	-	-	-	-	-	-	-	3
	13			-	-	-	-	2	-	-	-	-
	14			-	-	-	-	4	-	-	-	3
	15			3	5	-	-	23	-	-	-	23
	16			3	5	-	-	107	-	-	-	113
	17			27	28	-	-	50	-	-	-	100
	18			35	101	-	7	14	-	-	-	40
	19			5	78	-	23	-	-	-	-	30
	20			-	46	-	32	6	-	-	-	141
	21			3	5	-	9	-	2	-	-	181
	22			6	28	-	-	-	3	-	10	171
	23			2	51	-	-	2	3	2	21	87
	24			5	105	46	4	-	6	2	-	47
	25			10	32	-	16	21	32	10	-	3
	26			11	46	46	11	48	127	58	73	3
	27			27	37	70	34	50	126	68	94	-
	28			67	77	116	68	50	123	60	104	10
	29			119	92	140	118	101	151	90	31	13
	30			174	97	164	137	140	159	103	146	3
31			183	74	186	175	116	114	134	156	3	
32			174	55	163	155	132	74	202	94	13	
33			99	28	23	139	80	42	143	188	3	
34			30	5	46	43	48	24	95	83	7	
35			14	5	-	23	4	13	20	-	3	
36			3	-	-	4	2	-	13	-	-	
37			-	-	-	-	-	-	-	-	-	
38			-	-	-	-	-	1	-	-	-	
				1000	1000	1000	1000	1000	1000	1000	1000	1000
N _c (000)				870	804	3300	9360	12236	7156	3286	1020	163
W _c (tons) ²				16	3	1	9	9	9	6	3	3
Samples (L)				626	217	43	439	484	620	600	96	300
No. Meas.				30.1	25.8	30.2	30.5	27.9	29.5	31.3	30.7	21.1
L (cm)				0.203	0.146	0.257	0.236	0.224	0.225	0.224	0.217	0.099
W (gm)												
Mesh (mm)												
Depth (m)												
AGE GROUP	71	1		-	-	-	-	199	-	-	-	282
	70	2		73	263	-	71	8	6	6	29	643
	69	3		14	142	32	25	45	107	94	119	22
	68	4		60	161	126	189	192	385	174	196	16
	67	5		136	129	204	264	230	280	226	248	11
	66	6		445	227	451	275	204	148	267	195	13
	65	7		242	71	168	144	109	57	148	163	7
	64	8		30	7	19	32	13	17	65	50	5
	63	9		-	-	-	-	-	-	20	-	1
Total												
Samples (A)					11			27			11	
No. Aged					330			777			316	

¹ Jeffreys Ledge offshore, and south of New Hampshire-Maine border inshore.

² Catches pertain to all of Div. 5Y.

TABLE 51.1. LENGTH AND AGE FREQUENCIES - MACKEREL 1972 - Bulgaria - 5Z, 6

COUNTRY: BULGARIA			GEAR: Midwater trawl					
Commercial catches								
Mid-point of length group (cm)	5Ze			5Zw		6A		
	May	Nov	Dec	Jun	Jan	Feb	Mar	
14	-	-	1	-	-	-	-	
15	-	-	-	-	-	-	-	
16	-	-	3	-	-	-	-	
17	-	-	1	-	-	-	-	
18	-	-	6	-	-	-	-	
19	-	1	7	11	-	-	-	
20	-	3	14	15	-	-	-	
21	-	9	17	7	-	-	-	
22	-	7	10	11	1	-	-	
23	-	8	8	15	-	-	-	
24	-	4	97	8	1	3	-	
25	-	19	315	7	12	3	-	
26	2	56	202	-	47	3	3	
27	-	51	67	-	47	13	12	
28	10	16	12	26	100	38	62	
29	26	8	3	71	92	102	107	
30	97	47	14	161	88	82	190	
31	195	161	45	220	146	161	220	
32	281	226	66	138	183	187	197	
33	225	175	49	142	103	150	129	
34	89	95	28	105	93	93	51	
35	35	63	19	26	48	83	17	
36	12	30	9	22	27	28	5	
37	10	13	4	11	4	20	5	
38	8	7	2	4	7	16	2	
39	4	1	1	-	1	10	-	
40	2	-	-	-	-	3	-	
41	2	-	-	-	-	5	-	
42	-	-	-	-	-	-	-	
43	-	-	-	-	-	-	-	
44	2	-	-	-	-	-	-	
1000								
N _c (000)								
W _c (tons)	1310	-	2337	1359	6006	2208	4688	
Samples (L)	1	1	1	1	2	1	1	
No. Meas.	494	471	887	268	902	392	645	
L̄ (cm)	32.7	31.9	27.3	31.5	31.5	32.1	31.6	
W̄ (gm)	0.374	0.366	0.194	0.320	0.295	0.330	0.280	
Mesh (mm)	-	-	-	-	-	-	-	
Depth (m)	-	-	-	-	-	-	-	
AGE GROUP	72	0	-	30	-	-	-	
	71	1	-	152	68	-	-	
	70	2	14	103	33	74	1	
	69	3	206	301	65	67	3	
	68	4	173	124	41	130	41	
	67	5	543	250	87	226	200	
	66	6	50	35	15	312	200	
	65	7	2	4	1	144	110	
	64	8	4	1	1	102	110	
	63	9	2	-	-	144	110	
	62	10	2	-	-	325	442	
	61	11	2	-	-	70	467	
60	12	2	-	-	8	467		
1000								
Total	1000	1000	1000	1000	1000	1000	1000	
Samples (A)	1	1	1	1	2	1	1	
No. Aged	494	471	887	268	902	392	645	

TABLE 52.1. LENGTH AND AGE FREQUENCIES - MACKEREL 1972 - Japan - 5Ze

COUNTRY: JAPAN		GEAR: Otter trawl											
Commercial catches													
Mid-point of length group (cm)	COMPOSITION OF CATCHES/LANDINGS												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
LENGTH GROUP	16	24	-										
	17	5	-										
	18	10	-										
	19	29	-										
	20	43	15										
	21	34	10										
	22	48	15										
	23	19	15										
	24	58	10										
	25	43	61										
	26	43	61										
	27	68	138										
	28	68	102										
	29	93	83										
	30	72	128										
	31	87	82										
	32	34	82										
	33	39	71										
	34	24	56										
35	14	41											
36	34	15											
37	34	10											
38	43	5											
39	34	-											
		1000	1000										
N _c (000)													
W _c (tons)		59 ¹	87 ¹										
Samples (L)		1	1										
No. Meas.		207	196										
L _m (cm)		28.8	29.8										
W (gm)													
Mesh (mm)													
Depth (m)		160	150										
AGE GROUP													
Total													
Samples (A)													
No. Aged													

¹ Catches pertain to Div. 5Z

TABLE 53.1. LENGTH AND AGE FREQUENCIES - MACKEREL 1972 - Poland - 5Z, 6

COUNTRY: Poland			GEAR: Otter trawl				
Commercial catches							
Mid-point of length group (cm)	5Z				6		
	Mar	Apr	May	Sep	Mar	Apr	
LENGTH GROUP	19					-	2
	20					-	8
	21					-	27
	22					-	15
	23					-	4
	24					-	3
	25					-	3
	26					-	1
	27					-	1
	28	1	-	-	-	1	1
	29	3	1	-	-	2	3
	30	15	2	1	-	5	11
	31	50	11	4	5	22	30
	32	59	20	15	7	41	68
	33	81	38	36	81	42	73
	34	112	77	66	346	73	93
	35	144	133	145	277	136	145
	36	146	186	223	117	166	143
	37	107	158	164	56	163	117
	38	98	114	110	59	149	106
39	56	74	59	25	82	61	
40	41	47	38	18	51	34	
41	19	32	21	3	29	16	
42	18	37	32	3	20	14	
43	28	38	41	-	10	11	
44	11	17	20	3	7	5	
45	7	8	16	-	-	3	
46	2	3	4	-	1	1	
47	1	4	3	-	-	1	
48	1	-	1	-	-	-	
49	-	-	1	-	-	-	
		1000	1000	1000	1000	1000	1000
N _c (000)		1805	1279	3789	2180	19588	14912
W _c (tons)		-	-	-	-	-	-
Samples (L)		-	-	-	-	-	-
No. Meas.		2293	2146	1703	393	1068	6025
L (cm)		36.5	36.9	37.5	35.5	36.7	34.9
W (gm)		0.33	0.34	0.45	-	-	0.38
Mesh (mm)		45-50	45-50	45-50	45-50	45-50	-
Depth (m)		100-220	140-200	100-220	60-90	30-200	-
AGE GROUP	71	1	-	-	-	-	64
	70	2	-	4	2	9	35
	69	3	154	70	58	297	164
	68	4	107	51	51	469	64
	67	5	478	540	567	117	398
	66	6	163	172	156	53	179
	65	7	37	71	64	49	71
	64	8	13	24	24	6	5
	63	9	31	30	34	-	8
	62	10	17	38	44	-	12
Total		1000	1000	1000	1000	1000	1000
Samples (A)		-	-	-	-	-	-
No. Aged		500	1091	97	97	300	1128

TABLE 54.1. LENGTH AND AGE FREQUENCIES - MACKEREL 1972 - USSR - 5Z

COUNTRY: USSR		GEAR: Otter trawl												
Commercial catches														
Mid-point of length group (cm)	COMPOSITION OF CATCHES/LANDINGS													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
LENGTH GROUP	13	-	-	-	-	-	-	1	-	-	-	-		
	14	-	-	-	-	-	-	5	-	-	-	-		
	15	-	-	-	-	-	-	4	-	-	-	-		
	16	-	-	-	-	-	-	5	-	-	-	-		
	17	-	-	-	-	-	-	6	-	-	1	-		
	18	-	-	5	2	-	-	-	2	-	-	6	-	
	19	-	-	7	4	-	1	-	-	-	-	2	-	
	20	-	-	8	5	-	5	3	-	-	1	5	-	
	21	-	-	7	2	-	2	4	-	-	1	12	-	
	22	-	-	1	-	-	-	1	-	1	3	13	-	
	23	-	-	5	-	-	-	-	1	2	4	12	2	
	24	-	-	6	-	-	-	-	3	1	-	16	2	
	25	2	2	27	3	-	-	-	4	-	3	83	3	
	26	14	19	31	6	-	2	4	3	3	10	104	21	
	27	48	63	20	19	3	1	3	5	4	22	80	22	
	28	94	111	41	54	6	9	8	16	1	34	30	20	
	29	92	98	56	89	24	55	38	41	28	29	7	12	
	30	77	88	70	108	56	176	145	183	70	82	30	19	
	31	120	147	77	108	122	264	242	290	285	187	101	107	
	32	181	166	120	136	221	145	267	176	288	271	194	203	
	33	143	124	152	137	264	192	150	89	146	163	127	171	
	34	90	69	134	100	153	67	52	59	90	74	69	153	
	35	63	38	78	72	75	51	46	50	48	51	54	110	
36	26	20	66	42	26	21	28	30	18	35	26	66		
37	14	11	35	37	14	7	5	12	10	10	15	38		
38	14	19	27	32	14	1	4	11	3	14	7	16		
39	12	19	16	27	12	1	-	2	1	2	2	16		
40	8	6	11	12	7	-	-	2	1	2	2	10		
41	1	-	-	5	3	-	-	-	-	1	2	6		
42	1	-	-	-	-	-	-	-	-	1	-	2		
43	-	-	-	-	-	-	-	-	-	-	-	1		
		1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
N _c (000)		15475	5774	11981	9666	22261	18098	9562	5146	1105	1529	700	455	
W _c (tons) ¹		-	-	-	-	-	-	-	-	-	-	-	-	
Samples (L)		-	-	-	-	-	-	-	-	-	-	-	-	
No. Meas.		3800	1600	2316	3446	5475	2627	22688	8685	54149	966	2850	1600	
L (cm)		31.7	31.3	31.9	32.3	32.9	31.4	31.8	31.3	32.0	31.9	30.2	33.1	
W (gm)		0.317	0.314	0.320	0.340	0.350	0.305	0.326	0.330	0.338	0.340	0.292	0.382	
Mesh (mm)		44	44	44	44	44	44	44	44	44	44	44	44	
Depth (m)		55-120	180-200	85-160	75-180	75-250	70-120	50-135	40-115	55-155	60-80	35-75	20-70	
AGE GROUP	72	0	-	-	-	-	-	23	-	-	9	-		
	71	1	-	28	13	-	9	8	3	4	10	82	5	
	70	2	97	123	104	79	14	30	75	91	60	127	293	90
	69	3	261	293	173	257	154	345	388	421	360	390	237	259
	68	4	208	195	192	145	213	193	274	230	290	229	169	205
	67	5	371	326	406	331	474	353	198	166	226	180	160	303
	66	6	32	25	52	125	118	67	53	55	54	43	35	88
	65	7	8	11	11	10	4	2	3	9	5	15	10	30
	64	8	5	5	8	13	10	1	1	1	1	5	5	15
	63	9	14	17	20	26	13	-	-	1	-	1	-	4
62	10	4	5	6	1	-	-	-	-	-	-	-	1	
Total		1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
Samples (A)			13			14		9			6			
No. Aged			183			269		329			190			

¹ W_c includes purse seine catches: Mar (20), Apr (38), May (6438), Jun (3258), Jul (62), Aug (270), Sep (6).

TABLE 54.2. LENGTH AND AGE FREQUENCIES - MACKEREL 1972 - USSR - 6

COUNTRY: USSR			GEAR: Otter trawl									
Commercial catches												
LENGTH GROUP	Mid-point of length group (cm)	COMPOSITION OF CATCHES/LANDINGS										
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	20	-	-	-	-	-	-	-	-	10	-	-
	21	-	-	-	-	-	-	-	-	15	-	-
	22	-	-	-	-	-	-	-	-	70	-	-
	23	-	2	7	-	-	-	-	-	70	-	-
	24	-	3	7	3	-	-	-	-	110	-	-
	25	4	-	23	3	2	-	-	-	20	-	1
	26	23	5	45	11	2	-	-	-	10	-	4
	27	70	15	90	24	10	-	-	-	-	-	23
	28	96	59	150	72	22	-	-	-	-	-	115
	29	85	109	180	128	56	-	-	-	-	-	158
	30	105	120	63	145	153	-	-	-	5	-	135
	31	165	117	82	172	217	-	-	-	10	-	142
	32	177	139	113	172	264	-	-	-	55	-	129
	33	135	146	97	110	163	-	-	-	80	-	129
	34	66	98	60	90	80	-	-	-	65	-	82
	35	30	85	60	52	17	-	-	-	140	-	43
	36	13	46	13	7	12	-	-	-	190	-	19
	37	11	17	2	11	2	-	-	-	75	-	9
	38	6	17	2	-	-	-	-	-	40	-	6
	39	8	12	3	-	-	-	-	-	25	-	2
	40	6	5	-	-	-	-	-	-	10	-	2
	41	-	4	-	-	-	-	-	-	-	-	1
	42	-	1	-	-	-	-	-	-	-	-	-
		1000	1000	1000	1000	1000				1000		1000
	N _c (000)											
	W _c (Tons)	15878	8129	1468	3279	1119 ¹						36
	Samples (L)	-	-	-	-	-				-		-
	No. Meas.	1200	1270	600	290	411				200		1801
	W _L (cm)	31.1	32.1	30.2	31.2	31.6				31.5		31.1
	W _L (gm)	0.302	0.326	0.257	0.293	0.335				0.357		0.296
	Mesh (mm)	44	44	44	44	44				44		44
	Depth (m)	20-45	20-25	25-90	25	55-75				45-55		35-50
	72	0	-	-	-	-	-	-	-	68	-	-
	71	1	-	5	15	7	2	-	-	157	-	-
	70	2	133	43	205	106	42	-	-	85	-	325
	69	3	286	287	357	360	323	-	-	33	-	337
	68	4	197	207	150	160	214	-	-	97	-	142
	67	5	299	386	248	308	367	-	-	274	-	155
	66	6	63	39	8	58	51	-	-	223	-	27
	65	7	9	7	2	1	1	-	-	56	-	13
	64	8	3	7	-	-	-	-	-	5	-	2
	63	9	8	15	2	-	-	-	-	2	-	-
	62	10	2	4	-	-	-	-	-	-	-	-
	Total	1000	1000	1000	1000	1000				1000		1000
	Samples (A)		13			14			?			6
	No. Aged		183			269			329			190

¹ Includes 32 by purse seine.

TABLE 56.1. LENGTH AND AGE FREQUENCIES - COMMON AMERICAN SQUID 1972 - Japan - 5Z

COUNTRY: JAPAN		GEAR: Otter trawl					
Commercial catches							
Mid-point of length group (cm)	5Ze				5Zw		
	Jan	Feb	Mar		Jan		
LENGTH GROUP	5	10	3	-		-	
	6	14	11	-		-	
	7	18	21	-		-	
	8	16	30	-		-	
	9	34	18	-		-	
	10	47	24	5		-	
	11	75	19	-		-	
	12	88	26	15		-	
	13	76	45	30		30	
	14	71	45	45		66	
	15	70	61	40		25	
	16	74	87	71		86	
	17	79	99	56		177	
	18	57	100	66		106	
	19	60	90	40		55	
	20	43	95	35		66	
	21	32	56	45		101	
	22	25	30	30		162	
	23	14	14	31		35	
	24	15	24	51		81	
	25	17	16	40		10	
	26	19	18	35		-	
	27	17	16	61		-	
	28	16	14	56		-	
	29	11	21	71		-	
	30	1	6	56		-	
	31	1	6	61		-	
	32	-	3	40		-	
	33	-	2	15		-	
	34	-	-	5		-	
		1000	1000	1000		1000	
	N _c (000)						
	W _c (tons)	4427	1537	10		464	
	Samples (L)	10	3	1		1	
No. Meas.	1458	624	198		198		
L _c (cm)	16.21	18.07	23.31		19.53		
W (gm)							
Mesh (mm)							
Depth (m)	118-163	115-160	144		117		
AGE GROUP							
Total							
Samples (A)							
No. Aged							

Table 57. Listing of sampling data available on request from the Secretariat.

Species	Country	Division	Month	No. measured
Sea scallops	USA	5Y	Mar, Jun, Aug, Oct	2100
		5Ze	Jan-Apr, Jun-Dec	12971
		6A	Jan, Jun	1499
		6B	Apr - Aug	10783
		6C	Ma y	134

PART II

Selected Nominal Catches for 1972

This section contains 15 tables of selected nominal catch data by country, area, gear and month for cod, haddock, redfish, silver hake, red hake, pollock, witch, American plaice, yellowtail, Greenland halibut, argentine, roundnose grenadier, herring, mackerel, and squids. In cases where a single gear was used in the fishery, the catches of the various countries were extracted from Table 4 of Statistical Bulletin, Vol. 22 for 1972. In cases where significant catches were made by more than one gear, the catches were extracted from Table 5.

These tables are presented to aid in the analyses of the sampling data given in Part I. Monthly catches are listed for all areas and gears for which length sampling data are available and asterisks (*) denote the sampled catches. Catches for countries, areas and gears not sampled are also listed when they are significant enough to warrant the collection of sampling data in accordance with recommendations of STACRES (which were adopted by the Commission): that length and age sampling be carried out, as a minimum requirement, by the measurement of at least 200 fish for each 1000 tons caught in any quarter. The catches of all countries with significant fisheries in an area are listed, whether or not sampling data are available.

It will be noted from the large number of catches with no asterisks (*) in the following tables that the commercial sampling of most of the major Northwest Atlantic fish stocks is far from adequate. Countries, which took large catches in 1972 but reported little or no sampling data, are as follows:

Canada	Greenland halibut, mackerel	SA 3, 4
Denmark (F)	cod	SA 1, 3, 4
France (M)	cod	SA 1, 2, 3, 4
Fed.Rep. Germany	cod	SA 2, 3
Norway	cod	SA 1, 2, 3
Poland	squids	SA 5
Portugal	cod	SA 2, 3, 4
Spain	cod, squids	SA 1, 2, 3, 4, 5
USSR	redfish, American plaice, witch, yellowtail grenadiers, argentine, squids	SA 2, 3, 4, 5

Table 1. Nominal catches of cod by country, area, gear and month. (Catches for which sampling data were reported are designated by asterisks (*).)

Country	Area	Gear	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Can(MQ)	4R	OT	11	59	9	400	2219*	193	86	64	151	70	58	8	3328
		Others	-	-	-	-	1	7	-	5	3	4	-	-	20
	4S	OT	9	-	-	-	319	1158	839	588	715	609*	397	16	4650
		LL	2	-	-	-	71	112	114	127*	50	30	5	-	511
		Others	-	-	-	-	5	728	2261	615	288	44	27	1	3969
	4T	OT	1847*	120	-	1207*	5995*	4920*	1394	956*	848*	704*	1167	1918	21076
		GN	1	1	1	20	487	1002	2030	2143*	1424	694	51	9	7863
		DS,SS	-	-	-	-	80	408	407*	421*	338*	156	163*	79	2052
		LL	-	-	-	-	121	233	163	249*	51	57	33	-	907
		Others	-	-	-	-	53	412	1049	978	658	391	206	26	3773
	4Vn	OT	2575	1310*	416*	1750	1217	93	19	56	627*	36	186	221	8506
		LL	18	-	-	70	447	398	284	485	378*	511	471	211	3273
		Others	-	-	-	57	61	139	114	235	220	222	45	6	1099
	4Vs	OT	800*	1323*	3269*	964*	589	104	43	13	1	10	30	176	7322
		Others	2	8	-	-	79	6	13	7	4	-	-	-	119
4W	OT	687*	445	1191	159	89	106	22	76	20	49	358*	1507*	4709	
	Others	17	15	19	499	678	532	853	839	755	725	273	75	5280	
4X	OT	618*	422*	221	262	491	1316*	1108*	698*	606*	520*	303*	78	6643	
	LL	240	213	224	442	567	1328	1635	1206*	939	840*	211	129	7974	
	Others	1	-	26	52	201	1197	1148	974	486	1303	429	45	5862	
5Z	OT	-	136*	1	-	-	119	45	209	65	120	43	-	738	
	LL	-	-	-	-	22	343	629	399*	315*	67	3	-	1778	
Can(N)	2J	GN	-	-	-	-	-	-	14	121*	23	10	29	-	197
		HL	-	-	-	-	-	-	16	115*	164	19	-	-	314
		Trap	-	-	-	-	-	-	-	454*	187	14	-	-	655
		Others	-	-	-	-	-	6	11	231	265	46	-	-	559
	3K	GN	-	-	-	-	-	1312	3193*	1703	607	207	70	1	7093
		HL	-	-	-	-	-	13	140*	524	770*	417	77	-	1941
		Trap	-	-	-	-	-	523	2774*	482*	20	2	-	-	3801
		Others	7	-	-	-	-	15	198	191	424	292	99	-	1226
	3L	OT	204	50	98	622	715*	530	437	312	140*	251	185*	459	4003
		GN	7	18	5	89	644	3353*	3754*	1684	596	218	34	1	10403
		HL	-	-	-	-	4	394	190*	1600	1643	742	133	-	4706
		Trap	-	-	-	11	1889	11979*	12706*	1401	28	7	-	-	28021
		Others	-	-	-	-	38	87	667	875	954	437	85	-	3143
	3NO	OT	38	85	24	128	477	282	72	79	67	100	54	23	1429
	3Ps	OT	1199	837	595	97	293	49	3	2	8	68	72	95	3318
GN		17	9	35	232	780	1707*	2038*	918	569	165	74	61	6605	
LL		97	158	362	848	693	832	545	770	1041*	672	323	52	6393	
Trap		-	-	6	10	232	2543*	2249*	74	2	-	-	-	5116	
Others		12	3	12	6	22	164	326	310	195	62	49	6	1167	
3Pn	LL	379	208	871*	1312	937	239	272	198	394	363	330	90	5593	
	Others	116	46	1	101	312	63	75	59	81	41	25	8	928	
4R	OT	26	408	-	334	2647	333	25	11	38	76	51	52	4001	
	GN	-	-	-	-	145	755*	1000*	646	165	36	63	25	2835	
	LL	1	-	-	10	88	274*	400	179	91	44	23	1	1111	
	Trap	-	-	-	-	-	407*	999*	172	4	-	-	-	1582	
	Others	-	2	2	1	44	305	746	567	378	70	11	9	2135	
4T	OT	2138	198	-	766	991	23	1	-	-	-	3	196	4316	
4Vs	OT	32	1402	972	58	1	10	22	3	-	7	27	-	2534	

Table 1. (Cont'd)

Country	Area	Gear	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Den(F)	SA 1		(Not reported by months or gear)												9949
	SA 3														7919
	SA 4														11269
Den(G)	1A		-	-	1	4	1	-	116	60	36	4	-	41	263
	1B		-	2	2	1	6	733*	670*	317	98*	20	6	-	1855
	1C		-*	-*	-	2*	262	932	925*	681	67	13	6	87	3328 ¹
	1D		-	-	1	2	3	2*	58*	88*	29	16	4*	1*	3970 ¹
	1E		-	-	2	-	-	-	511	646	225	44	-	105	1533
	1F		23	14	4	3	21	31*	772	1780*	705	165	138	40	3696
	1NK		2117	703	690	944	514	1237	375	521	322	12	745	577	8757
Fra(M)	SA 1	OT	-	-	-	1411	2607	-	-	166	441	372	470	48	5515
	SA 2	OT	1557	-	183	594	-	-	-	19	19	2404	14	70	4860
	3K	OT	22	420	-	1246	106	-	-	-	446	269	986	265	3760
	3L	OT	209	427	1038	131	127	208	117	-	1131	530	1509	54	5481
	3M	OT	-	745	950	-	-	16	106	862	14	-	-	-	2693
	3Pn	OT	-	745	1699	243	-	-	-	-	-	-	-	-	2687
	4RS	OT	752	5882	834	3167	-	-	-	-	-	-	-	-	10635
	4T	OT	30	249	83	78	49	-	-	-	-	-	-	-	489
	4Vn	OT	637	3795	3083	32	-	-	-	-	400	342	-	-	8289
FRG	1C	OT	2947	1372*	1236	1111	7	-	-	-	-	-	156	33*	6862
	1D	OT	468	60	354	487	978*	309	76	-	-	-	118	346*	3196
	1E	OT	22	113	393	282	1557*	638	11	-	-	-	34	828*	3878
	1F	OT	254	566*	263*	285	711*	236	23	-	2	-	43	514*	2897
	2J	OT	7025	900	2127	-	-	-	-	-	-	-	-	-	10052
	3KL	OT	650	18384	447	-	-	-	-	-	-	-	-	-	19481
Nor	SA 1		6580	5492	2293	4462	1046	106	-	-	-	-	86	144	31540 ¹
	SA 2		132	626	333	-	-	-	-	-	-	-	-	-	1091
	SA 3		63	322	36	-	-	-	-	-	-	-	-	-	6701 ¹
Pol	2H	OT	2724	-	-	-	-	-	-	66	2	-	-	-	2792
	2J	OT	8889*	3538	594	2877	-	-	-	2	38	51	130	303	16422
	3K	OT	242	16541*	385	187	3	1838	1114	1082	177	239	1	-	21809
	3L	OT	-	17	498*	11	-	-	281	27	1	54	8	-	897
Por	SA 1	GN	-	-	-	-	-	374*	5418*	2693*	-	-	-	-	8485
	2J	OT	5211	-	-	5392	239	314	4	-	19	1158	1535	5340	19707 ¹
	3K	OT	633	1058	32	2530	776	241	6	-	16	12	532	790	6886 ¹
	3L	OT	2479	4015	4797	2158	7225	1179	290	19	1955	2624	1659	1119	30362 ¹
		DV	-	-	-	-	156	455	1911	2871	1358	-	-	-	6751
		GN	-	-	-	78	188	389	193	169*	407*	406*	-	-	1830
	3M	OT,DV	6	1173	2197	11	228	9316	9186	7209	1502	731	191	-	32052 ¹
	3N	DV	-	-	-	26	630	113	328	558	189	-	-	-	1844
		GN	95	123	201	-	952	1180	58	528	1925	1031	324	115	6532
	30	GN	-	-	-	28	329*	1629*	56	294*	409*	310	-	-	3055

¹ Includes catches reported under "Month (NK)"

Table 1. (Cont'd)

Country	Area	Gear	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
Por (Cont'd)	4RS	OT	126	6678	804	1005	-	-	-	-	-	-	-	-	8757 ¹	
	4Vn	OT	1146	240	605	588	-	-	-	-	-	-	-	-	2646 ¹	
		DV	-	-	-	-	77	382	-	-	-	-	-	-	459	
Spa	SA 1	PT	-	-	-	-	-	-	591	2530	786	1837	6679	528	12951	
	2J	OT	40	55	86	89	-	24	-	-	275	1065	30	-	1664	
	3K	PT	-	-	-	221	7	92	41	-	-	-	-	-	-	361
		OT	41	407	-	561	691	511	219	204	113	103	108	14	-	2972
	3L	PT	17	407	2003	12301	7100	8980	2668	4682	5115	3907	1100	194	-	48474
		OT	172	251	555	739	967	489	409	197	1231*	203	416	-	-	5629
	3M	PT	-	-	104	-	24	-	-	-	14	-	-	-	-	142
		OT	-	32*	52*	4	15	344	1109	2899	411	12	-	-	-	4878
	3N	PT ¹	39	32	873	1103	5403	11226*	7452*	2814	1833	1623	1314	-	-	33712
	3O	PT ¹	18	76	3063	3247	9019	12341	3078	2608	4960	2599	1462	141	-	42612
	3Ps	PT ¹	739	2048	2445	627	1688	-	331	262	977*	3100	5841	492	-	18550
	4RS	OT	-	837	232*	626	-	-	-	-	-	-	-	-	-	1695
	4Vn	PT	24	587	2471	209	5	-	-	-	118	218	361	-	-	3993
		OT	47	1220*	873*	293*	-	-	-	-	64	405*	-	-	-	2902
	4Vs	PT	962	6623	6363	1004	828	451	1	265	1409	1192	514	21	-	19633
OT		83	481	1087	-	-	-	-	47	135	-	-	-	-	1833	
4W	PT ¹	724	1101	1817	454	82	8	-	641	1016	786	446	1	-	7076	
4X	PT	58	1127	94	-	-	2	-	2	100	164	-	-	-	1547	
5Z	PT	63	3127	245	101	3	120	35	828	1465	714	-	-	-	6701	
USSR	SA 1	OT	413	305	12	15	113	163	-	-	-	-	-	-	1021	
	2H	OT	9644	-	-	-	-	-	-	-	1	-	-	103	9748	
	2J	OT	35726*	11652	357	18611*	535	30*	132	1	22	-	-	12766	79832	
	3K	OT	1484	46441*	507	3556	4108	941*	492*	901	-	5	14	59	58508	
	3L	OT	92	18	4134	698	92	52	23	-	1	-	-	1	5111	
	3M	OT	17	32	3231*	314	10	73	1054	229	66	2	2	-	5030	
	3N	OT	-	-	3012	-	99	324	57	28	221	144	66	15	3966	
	3O	OT	-	-	2	-	3125	5029	46	1	1	9	14	5	8232	
	4Vs	OT	-	-	17	1	21	-	71	861	327	31	-	-	1329	
	4W	OT	-	6	247	39	494	796	971	339	136	156	133	-	3317	
UK	SA 1	OT	16	22	5	-	156*	-	321*	-	321*	5	-	-	846	
	2J	OT	-	-	181	288*	185	-	95	1230*	595*	429*	-	-	3003	
	3KL	OT	432	920	93	485	438	329	35	701	27	215	233	-	3908	
	3M	OT	26	-	-	-	334	1455*	1270	496*	422*	120	3	-	4126	
	4VsW	OT	-	215*	192*	79	-	-	-	-	-	-	-	-	486	
USA	5Y	Mix	616	352	555	714	842	694	530	733	489	463	347	441	6776	
	5Z	OT	639*	803*	1116*	1031*	911*	1084*	819*	901*	769*	1229*	892*	601*	10795	
		Others	39	39	65	126	149	403	571	515	184	197	30	27	2345	
GDR	2J	OT	10804	637	-	34	-	-	-	-	-	-	-	-	11475	
	3KL	OT	221	15167	21	-	35	-	9	28	-	-	66	-	15547	

¹ Includes catches reported under "Month (NK)"

Table 2. Nominal catches of haddock by country, area, gear and month. (Catches for which sampling data were reported are designated by asterisks (*).)

Country	Area	Gear	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Can(MQ)	4V	OT	15	21	235	146	36	9	13	6	21	2	17	12	533
		LL	-	-	-	-	4	1	15	24	8	13	16	1	82
		Others	-	-	-	11	49	13	10	8	16	26	9	-	142
	4W	OT	88	68	788*	136	69	215*	6	50	5	16	32*	116	1589
		LL	-	-	3	9	12	25	85	64	65	98*	65	17	443
		Others	-	-	-	7	3	6	2	15	20	10	-	1	64
	4X	OT	712*	1201*	524*	376*	664*	1806*	730*	622*	470*	317*	168	49	7639
		LL	278*	191	199	191	216	270	423*	591*	681*	670*	178	160	4048
		HL	-	-	-	-	3	42	89	204	96	60	4*	-	498
		Others	-	-	2	28	4	37	89	73	78	57	15	2	385
	SA 5	OT	-	118	2	-	3	83	20	88	56	59	5	-	434
		LL	-	-	-	-	4	36	71	29	39*	15	4	-	198
Spa	4VW	PT	29	240	553	265	36	9	-	57	54	217	11	1	1472
	4X	PT	3	430	6	-	-	-	-	9	17	5	-	-	470
	SA 5	PT	57	816	2	3	-	-	-	134	59	27	-	-	1098
USA	SA 5	OT	250*	324*	362*	335*	665*	561*	347*	347*	249*	299*	183*	176*	4098
		Others	56	56	90	93	33	35	91	104	59	35	4	24	680

Table 3. Nominal catches of redfish by country, area, gear and month. (Catches for which sampling data were reported are designated by asterisks (*).)

Country	Area	Gear ¹	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Can(MQ)	3P		1	-	-	-	-	-	11	160	206	204*	72	-	654
	4R		-	76	197	339	420	336	1167	1769	2531*	1206	1912*	1314*	11267
	4S		81	-	-	-	1772	4311	5777	7241*	8503*	5881	6452*	2341	42359
	4T		99	132	-	41	238	1190	2289*	1220*	638	351	358	84	6640
	4V		355	859*	1415*	458	607*	1733*	1022	475	148	211	176	203	7642
	4W		16	75	398	482	759	1117*	1238	1571*	494	526	360	59	7095
	4X		18	23	30	21	369	734*	280	441	382	93	65	38	2494
Can(N)	3P		436	306	917	253	158	567	547	991	215	250	454	119	5213
	4R		413	318	-	359	434	1230	898*	1044	1776*	2392	3034*	1855*	13753
	4S		142	-	-	8	194	421	211*	547	1351	241*	327	660*	4102
	4T		21	45	-	134	77	44	287	145	-	-	62	-	815
	4V		65	592	710	335	58	895	1073	499	-	100	231	-	4558
Den(G)	SA 1		-	-	28	1	5*	5*	15*	10	84	2	45	15	244 ²
Japan	4V		-	-	232	416*	973*	346*	-	-	167	108	-	-	2242
	4W		-	-	-	-	-	-	-	-	1	27*	-	-	28
	4X		-	-	2	-	1*	-	-	-	-	-	-	-	3
Poland	SA 2		138	114	55*	103	-	-	1	130	33	18	26	30	648
	3K		26	629*	346*	84	1	60	44	5	36	249	8	-	1488
	3M		-	-	840*	84	-	-	-	-	-	36	-	-	960

Table 3. (Cont'd)

Country	Area	Gear	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
USSR	SA 2		1752	617	92	2581*	465	85	-	109	105	150	1256	288	7500
	3K		125*	3402	46	551	1026	203*	6	437	42	109	12	22	5981
	3M		22	74	6317*	3966	38	1377	9403*	7497	6413	2456	769	26	38358
	3LN		50	37	1580	139	1132	2085	2884	3376	6631	6458	1572	686	26630
	3O		-	-	266	-	6280*	4624	1166	173	125	797	1749	315	15501
	3P		-	-	-	-	46	110	3035	5578	4107	2720	2282	492	18370
	4V		-	-	275	33	146	1247	568	113	52	138	-	-	2572
	4W		-	-	438	25	764	1802	2404	1566	870	345	299	-	8513
	SA 5		-	53	3689	1528	246	51	31	38	18	3	-	-	5639
USA	4RST		-	-	-	-	-	46	36	233*	516*	138*	69*	73*	1111
	4V		-	-	5	53	-	-	47	107*	-	12	-	-	224
	4W		-	283	575*	1209*	1294*	378*	369*	323*	452*	487*	625*	444*	6439
	4X		1584*	1067*	475	120	591*	1063*	66	72	57	110	240	257*	5702
	5Y		59	30	639*	463*	861*	1247*	1801*	705*	354*	580*	222	189	7150
	5Z		197	301	443	913*	784*	479*	811	1048*	572	332	83	44	6007

¹ Mostly by trawls.

² Includes month (NK) catches.

Table 4. Nominal catches of silver hake by country, area, gear and month. (Catches for which sampling data were reported are designated by asterisks (*).)

Country	Area	Gear ¹	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Bul	5Ze		-	-	-	-	278	-	1041	491	28	69	-	7	1914
	5Zw+6		9	-	102	76	-	1257	-	-	151	9	25	-	1629
Japan	4VWX		-	-	5	-	58*	-	-	-	-	-	-	-	63
	5Ze		51*	40*	1	11*	-	-	-	-	1*	-*	-	-	104
	5Zw+6		1*	1*	12*	70*	-	-	5	1	-	-	-	11	101
USSR	4W		-	43	7171*	11445*	19798*	16336*	24043*	14610*	11481*	3213*	448*	-	108588
	4X		-	-	4	684*	1447	596	2382*	-*	-*	-*	4*	-	5117
	5Ze		170	71	3980*	1019*	11981*	20287*	13899*	8811*	3595*	2307*	2356*	5406*	73882
	5Zw		101	38	502*	196	49	6294	2342	6874*	2317*	89*	207*	402	19411
	SA 6		682	996	2046	425	642*	111*	63	-	-*	1226*	1541*	3*	7735
USA	5Y		10	-	1	4	223	214	866*	1040*	675	1068*	1010*	459	5570
	5Ze		1	1	-	-	2*	27*	467	192*	14	165	10	-	879
	5Zw		69	5	4	10	375	538	111	245	82	3	84	79	1605
	SA 6		4	-	8	16	99	66	32	29	-	2	10	10	276

¹ Mostly trawl catches

Table 5. Nominal catches of red hake by country, area, gear and month. (Catches for which sampling data were reported are designated by asterisks (*).)

Country	Area	Gear ¹	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
USSR	5Ze		127	6	324*	323*	396*	8318*	5244*	6157*	5258*	4619*	2630*	4558*	37960
	5Zw		585*	74	190*	23	81	2006	1529	7984*	4279*	881*	277	755	18664
	SA 6		4034*	962	1096	547	1074*	200	4	-	-*	4272*	2422*	83	14704
USA	5Zw		18	5*	3*	13*	478*	127*	22	25	23	-	169*	293*	1176
	SA 6		4	-	1	7*	205*	13	1	-	-	-	22*	17*	270
Japan	SA 6		102*	117*	10	-	-	-	2	3	-	118	182	-	534

¹ Mostly trawl catches

Table 6. Nominal catches of pollock by country, area, gear and month. (Catches for which sampling data were reported are designated by asterisks (*).)

Country	Area	Gear	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Can(MQ)	4X	OT	149	472	136	742*	943*	2555*	3263	665	1229	1504*	1661*	188	13507
		Others	1	2	4	1	41	276	378	232	211	250	344	40	1780
USSR	4V,W,X	OT	-	272	108	542	460	151	823	87	9	-	-	-	2452
USA	5Y	OT	165	29	78	56	79	226	67	62	105	257	851*	1196*	3171
	5Ze	OT	276	279	113	92	97	156	85	214	155*	193	212*	195*	2067
GDR	5Y	OT	-	-	-	-	-	-	-	-	-	-	230	2445	2675
	5Z	OT	497	-	-	-	-	-	-	-	-	-	5	1602	2104

Table 7. Nominal catches of witch by country, area, gear and month. (Catches for which sampling data were reported are designated by asterisks (*).)

Country	Area	Gear	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Can(MQ)	3L	OT	-	15	-	20*	-	2	4	6	3	9	13	-	72
		OT	-	-	-	12	-	-	1	1	2	97	66*	-	179
	4V	OT	290	515*	902*	673	83	20	10	7	4	43	50	194	2791
		Seine	-	-	-	7	154	260	142	73	62	35	27	2	762
	4W	OT	33	178	419	136	7	6	3	5	1	7	7	68	870
Seine		-	-	18	36	32*	37	47	100	85	59	59*	22	495	
Can(N)	3K	GN	-	-	-	-	-	9	540	735	569	202	1	-	2056
		OT	3	3	30	44	24	-	32	125	54*	18	182	53	568
	30	GN	-	-	-	-	2	231	937	958	571	122	3	-	2824
		OT	10	710*	155	2140	23	-	4	4	1	2	233	16	3298
	3Ps	OT	83	85	70	26	12	12	6	14	1	43	583*	44	979
Seine		-	-	34	62	9	34	4	62	56	45	52	1	359	
Poland	2J-3KL	OT	20	482	280*	668*	1	238	666	890	539	139	90	-	4013
USSR	2J-3KL	OT	241	2851	1113	165	227	379	838	999	12	23	17	151	7016
		OT	-	-	1389	7	881	2059	532	177	270	228	120	75	5738
	4VWX	OT	-	2	430	74	817	852	1076	900	702	287	67	-	5207

Table 8. Nominal catches of American plaice by country, area, gear and month. (Catches for which sampling data were reported are designated by asterisks (*).)

Country	Area	Gear	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Can(MQ)	3L	OT	-	-	-	38*	-	344	451	238	97	112	83	-	1363
	3N	OT	-	-	-	-	-	47*	73	-	13	13	7	-	153
	3O	OT	-	1	-	36	-	110	852	431*	914*	520	149	-	3013
	3Ps	OT	-	-	-	7	-	12	230	421	266	345*	340*	-	1621
	4T	OT	18	5	-	207	1415	1183	686	252	173*	124*	466	183	4712
		Others	-	3	-	-	215	600	693	528	452	327	273	68	3159
	4V	OT	621*	487	714*	867*	710*	98	102	63	21	17	134	257	4091
Others		-	-	-	71	97	114	102	60	90	50	29	6	619	
Can(N)	3L	OT	444	360	3896	2324	1728*	2641	3150	2752	1772*	975	1323*	1727	23092
		Others	-	1	3	27	402	719	917	873	411	93	7	-	3453
	3NO	OT	305	393	284	741	1732	1965	1355	1318	879	865	517	177	10531
	3Ps	OT	1103	101	237	103	38	9	6	8	202	453	562	1144	3966
Others		-	-	-	2	25	82	83	55	59	19	8	2	335	
Den(G)	SA 1	Mix	-	-	-	-*	-*	-*	8*	1	7	-	8	3	27
Poland	3K	OT	-	2	3	19*	-	72	60	473	140*	13	1	-	783
	3L	OT	-	-	1374*	4	-	-	7	7	4*	2	61	-	1459
	3NO	OT	-	-	1054	-	-	-	-	-	-	2	-	-	1056
USSR	SA 2	OT	1040	14	61	2635	246	-	56	1	41	123	-	646	4863
	3K	OT	21	854	224	18	66	130	227	339	-	9	1	8	1897
	3L	OT	24	-	3147	140	16	35	5	-	8	-	8	-	3383
	3NO	OT	-	-	3812	20	1124	2601	1065	487	707	576	252	137	10781
	4VWX	OT	-	-	311	39	455	473	655	676	691	253	57	-	3610

Table 9. Nominal catches of yellowtail by country, area, gear and month. (Catches for which sampling data were reported are designated by asterisks (*).)

Country	Area	Gear	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Can(MQ)	3L	OT	-	-	-	64*	-	230	191	210	103	1	-	-	799
	3N	OT	-	-	-	-	10	44*	72	-	628	429	81	-	1264
	3O	OT	-	-	-	34	-	61	38	15	176	68*	-	-	392
	4V	OT ¹	8	-	19	139	191	49*	38	25	3	-	2	6	480
Can(N)	3L	OT	10	174	1804	558	477*	680	521	1647	778	475	242	25	7391
	3N	OT	40	232	239	835	1757*	1145	568	863	4125*	4598*	2149	-	16551
	3O	OT	-	18	1	67	63	33	21	129	73	80	36	21	542
Japan	4V	OT	-	-	-	-	-*	-	-	-	4	2	-	-	6
USSR	3LNO	OT	13	-	5352	78	908	2141	1089	526	780	635	267	140	11929
	5Z	OT	66	24	95	23	76	513	536	873	1243	409	574	383	4815
USA	5Z	OT	2217*	1620*	2086*	1834*	1701*	1386*	1385*	2130*	1886*	2353*	2264*	2333*	23195
	SA 6	OT	227	288	360	364	413	261	956	977	636	509	50	74	8774 ²

¹ Mostly otter trawl catches.

² Includes catches reported in month (NK).

Table 10. Nominal catches of Greenland halibut by country, area, gear and month. (Catches for which sampling data were reported are designated by asterisks (*).)

Country	Area	Gear	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Can(N)	3KL	Mix	4	-	3	37	161	912	2716	2523	1505	824	229	38	8952
Den(G)	SA 1	Mix	40	58	137	114*	194	240*	188*	89	70	761	382	57	2950
Poland	SA 2	OT	439	142	43	718	-	-	1	633	327	75	407	538	3323
	3KL	OT	3	186	129*	607	1	324	937	871	320*	250	35	-	3663
USSR	SA 2	OT	454	97	21	1470	594	321	155	107	601	1240	234	634	5928
	3KL	OT	36	1035	147	101	420	775	302	1260	44	7	82	46	4255

Table 11. Nominal catches of argentine by country, area, gear and month. (Catches for which sampling data were reported are designated by asterisks (*).)

Country	Area	Gear	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Japan	4VWX	OT	-	-	110	45	211*	67	-	-	5	6	12	-	456
	SA 5	OT	-	-	50*	22	-	-	-	-	3	-	-	22	97
USSR	4VWX	OT	-	-	88	3381	992	192	631	76	16	-	36	-	5412
	SA 5	OT	223	70	1644	28982	1514	28	41	25	56	25	2	-	32610

Table 12. Nominal catches of roundnose grenadier by country, area, gear and month.

Country	Area	Gear	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
USSR	SA 1	OT	8	-	-	-	-	12	1789	301	43	3	8	-	2164
	SA 2	OT	27	-	-	14	16	-	43	1521	350	863	-	33	2867
	SA 3	OT	14	-	2	-	2693	8124	5714	1937	89	1703	881	-	21157

Table 13. Nominal catches of herring by country, area, gear and month. (Catches for which sampling data were reported are designated by asterisks (*).)

Country	Area	Gear	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
Can(MQ)	4T	PS,MT	-	-	-	237	575*	136	10558*	6953*	9926*	5435*	2011	27	35858	
		GN	-	-	-	160	2122*	1556	375	1789*	4161*	2320	97	14	12594	
		Others	-	-	-	3	3405	891	101	350	366	22	-	-	5138	
	4Vn	PS,MT	1897*	-	-	370	44	-	-	-	-	-	-	4283*	5631*	12225
		Trap	-	-	-	-	-	-	37*	10*	-	-	-	-	-	47
	4W	PS,MT	9977*	3135*	3614*	343	10	-	-	-	-	-	10	17	423	17529
Trap		-	-	-	-	7	10	10	110*	-	-	3	-	-	130	
4X	PS,MT	14	-	-	7	-	2898*	15610*	27892*	19589*	10127*	10208*	927*	87272		
	GN	-	-	-	30	136	1046*	1419*	1420*	1086*	149	1	7	5294		
	Weir	-	-	-	2	515*	4967*	9069*	10134*	9059*	6158*	1533*	-	41437		
	Others	-	4	17	44	15	114	159	296	350	196	160	10	1365		
5Y	PS,MT	-	-	-	1086*	2105*	14	-	2452	2380*	3601	-	-	11638		
Can(N)	3L	BS	-	-	-	46	30*	1*	-	5	14	26	8	-	130	
		PS	-	-	-	61*	24	-	-	-	267	41	-	-	393	
	3P	PS	19737*	3566*	4613*	5066*	5938	-	-	-	-	-	655	1320*	40895	
		BS	2031*	635	777	651*	191*	111	-	-	-	-	-	178	4574	
		Others	782	91	93	945	250	107	31	10	8	4	137	90	2548	
	4R	PS	2157	87	-	679	1421*	-	65	-	-	-	858	439	5706	
Others		633	1	1	311	390	181	606	1268	1448	334	1160	144	6477		
FRG	5Y	MT	-	-	-	-	-	-	319	1204	60	753*	506	88	2930	
	5Z	MT	-	-	-	-	-	-	320	5911*	9851*	11493*	119	9	27703	
Japan	4V	OT	-	-	-	-	561*	43	-	-	-	-	-	-	604	
	5Z	OT	-	-	-	2*	-	-	-	44	373	740	-	-	1159	
	SA 6	OT	-	-	-*	-*	-	-	-	-	-	2	-	-	2	
Pol	5Z	OT	43	-	17	92	472	612	643	1885*	14249*	13270*	5025	4816	41124	
	SA 6	OT	92	1865	1924	3536*	831	20	-	-	-	-	-	-	8268	
USSR	4V	OT,PS	-	-	213*	1044*	-	-	1	-	6	4	-	-	1268	
	4W	OT,PS	-*	16*	344*	3758*	7281*	1659*	1375*	551*	227*	83*	6*	-	15300	
	4X	OT,PS	-	-	-	355	358	4209	2425*	-	-	-	46	-	7393	
	5Z	OT,PS	271	412	519	182*	3333*	9034*	6603*	10162*	9604*	2253*	508*	627*	43508	
	SA 6	OT,PS	235	1437*	1619	246*	753*	159	1	1	-	72	41	-	4564	
USA	5Y	Mix	-	-	1	870*	804*	3300*	9360*	12236*	7156*	3286*	1020*	163*	38196	
	5Z	Mix	772	484	705	37	9	-	11	-	-	-	4	238	2260	
GDR	5Y	OT,MT	-	-	-	-	891	2827	144	-	-	4984	450	-	9296	
	5Z	OT,MT	4	-	-	1	38	534	1999	5771	19977	8559	458	602	37943	
	SA 6	OT,MT	129	64	337	1454	78	3	-	-	-	-	-	8	2073	

Table 14. Nominal catches of mackerel by country, area, gear and month. (Catches for which sampling data were reported are designated by asterisks (*).)

Country	Area	Gear	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Bul	5Z	OT	-	-	-	-	1310	1359	1183	89	57	15	1102	2337	7452
	SA 6	OT	6006	2208	4688	3184	-	-	-	-	-	18	-	-	16104
Can(MQ)	4ST	Mix	-	-	-	-	7	562	4387	1549	726	291	9	-	7531
	4VWX	Mix	-	-	-	-	337	1600	933	1145	1265	1094	528	61	6963
Japan	5Z	OT	59*	87*	17	14	-	-	-	-	32	-	-	-	209
	SA 6	OT	263	58	308	266	-	-	-	-	-	-	-	-	895
Pol	5Z	OT	5764	-	1805*	1279*	3789*	4322	2156	3572	2180*	3585	9878	23018	61348
	SA 6	OT	21482	14838	19588*	14912*	7938	40	-	-	-	-	-	1503	80301
Rom	5Z	OT	-	-	5	56	124	-	-	57	170	103	-	-	515
	SA 6	OT	-	-	1	1197	341	465	-	-	-	-	-	-	2004
USSR	5Y	OT,PS	-	405	424	497	517	91	-	-	-	-	-	-	1934
	5Z	OT,PS	15475*	5774*	11981*	9666*	22261*	18098*	9562*	5146*	1105*	1529*	700*	455*	101752
	SA 6	OT,PS	15878*	8129*	1468*	3279*	1119*	90	255	2	-*	23	92	36*	30371
GDR	5Z	OT	5627	-	1000	12	4199	572	1125	299	31	721	3858	7146	24590
	SA 6	OT	7679	15347	20182	10249	30	45	-	-	-	-	-	1633	55165

Table 15. Nominal catches of squids by country, area, gear and month. (Catches for which sampling data were reported are designated by asterisks (*).)

Country	Area	Gear	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Japan	5Ze	OT	4427*	1537*	10	5*	-	-	-	-	9	16	21	668	6693
	5Zw	OT	464*	175	189	38	-	-	-	-	-	2	5	296	1169
	6A	OT	698*	745*	802*	175*	-	-	-	157	-	85	565*	852*	4079
	6B	OT	45	313	325*	153*	-	-	29	1499	376	166	2055	874	5835
	6C	OT	1	-	110*	124*	-	-	8	2	61	427	150	32	915
Pol	SA 5	OT	-	-	3	23	47	3631	1281	57	-	-	-	-	5042
	SA 6	OT	15	4	11	34	276	-	-	-	-	-	-	46	386
Spain	SA 5	OT	2622	2085	1086	4	-	-	-	-	-	-	-	-	5797
	SA 6	OT	342	455	559	211	867	1345	936	538	373	-	15	422	6063
USSR	SA 5	OT	123	59	422	344	242	2630	1628	744	74	45	21	49	6381
	SA 6	OT	51	201	30	57	42	13	7	-	-	163	31	-	595

PART III

Sampling Data for Previous Years

This section contains commercial sampling data for cod, redfish, pollock, witch, herring and mackerel for years prior to 1972.

The 1971 cod data for Poland and herring data for USA were intended for inclusion in Vol. 16 of the Yearbook but were received at the Secretariat after that issue was printed.

The 1970 herring data for Poland represented a more refined breakdown by divisions of data previously published in Vol. 15 of the Yearbook and replaces the data on pages 225 and 271 of that issue.

All other data were submitted in response to recent requests for additional data on various species, for which assessments are required to estimate TACs (total allowable catches).

TABLE 1. LENGTH AND AGE FREQUENCIES - COD 1971 - Poland - 2H, 2J, 3K

COUNTRY: POLAND		GEAR: Otter trawl						
Commercial catches								
Mid-point of length group (cm)	2H		2J			3K		
	Jan		Jan	Feb	Mar	Mar	Apr	
21	-		12	3	-	1	1	
24	-		23	7	-	2	6	
27	2		47	13	-	7	23	
30	11		96	32	6	35	40	
33	53		117	47	17	58	51	
36	101		129	60	47	65	55	
39	145		132	83	58	100	61	
42	135		119	96	78	71	83	
45	110		99	112	122	122	111	
48	107		75	113	160	119	106	
51	75		56	103	144	73	81	
54	60		35	92	116	69	70	
57	53		21	68	59	75	65	
60	55		13	62	57	50	72	
63	34		9	44	48	41	68	
66	22		7	28	39	34	54	
69	11		4	17	26	28	23	
72	8		2	12	12	19	12	
75	6		1	5	7	13	9	
78	5		1	2	4	9	5	
81	3		1	1	-	6	3	
84	2		1	-	-	3	1	
87	2		-	-	-	-	-	
		1000	1000	1000	1000	1000	1000	
N _c (000)								
W _c (tons)								
Samples (L)								
No. Meas.		1749	5998	8302	810	1590	1592	
L (cm)		47.9	41.2	49.1	51.6	50.5	48.9	
W (gm)		-	-	-	-	-	-	
Mesh (mm)		114	114	114	114	114	114	
Depth (m)		-	-	-	-	-	-	
AGE GROUP	69	2	1	2	1	-	2	6
	68	3	68	85	26	4	24	42
	67	4	161	205	85	38	118	103
	66	5	169	365	242	196	230	204
	65	6	242	161	209	240	268	264
	64	7	126	120	242	295	199	216
	63	8	81	37	103	123	80	90
	62	9	38	15	48	55	40	34
	61	10	34	5	18	20	18	19
	60	11	22	3	13	15	13	15
	59	12	24	1	5	6	7	6
	58	13	8	1	5	6	1	1
	57	14	4	-	1	1	-	-
56	15	9	-	1	1	-	-	
	15+	13	-	1	-	-	-	
Total		1000	1000	1000	1000	1000	1000	
Samples (A)		-	-	-	-	-	-	
No. Aged		602		770			841	

TABLE 2. LENGTH AND AGE FREQUENCIES - REDFISH 1969 - USSR - 4V, 4W, 5Ze

COUNTRY: USSR		GEAR: Otter trawl				
Commercial catches (not reported by sex)						
Mid-point of length group (cm)	4V		4W		5Ze	
	Sep	Mar	May	Jun	Oct	
14	-	-	3	-	-	-
15	-	-	10	-	-	-
16	-	-	7	-	-	7
17	-	3	20	1	-	10
18	3	7	37	8	-	43
19	14	13	77	33	-	40
20	63	30	144	113	-	73
21	76	53	293	245	-	160
22	101	94	233	185	-	200
23	108	107	93	68	-	160
24	142	113	53	40	-	150
25	122	93	20	47	-	104
26	115	110	7	75	-	43
27	73	83	3	45	-	7
28	70	56	-	31	-	3
29	28	103	-	25	-	-
30	31	47	-	11	-	-
31	17	47	-	27	-	-
32	21	17	-	25	-	-
33	-	7	-	15	-	-
34	3	10	-	5	-	-
35	3	7	-	1	-	-
36	7	-	-	-	-	-
37	3	-	-	-	-	-
	1000	1000	1000	1000		1000
N _c (000)						
W _c (tons)						
Samples (L)	1	1	1	2		1
No. Meas.	288	300	300	600		300
L (cm)	34.8	25.6	21.1	23.4		22.3
W (gm)	0.570	0.193	0.136	0.227		0.162
Mesh (mm)	40	40	40	40		40
Depth (m)	440	165-185	165-195	165-275		100-130
AGE GROUP						
Total						
Samples (A)						
No. Aged						

TABLE 3. LENGTH AND AGE FREQUENCIES - REDFISH 1970 - 4V, 4W

COUNTRY: USSR			GEAR: Otter trawl					
Commercial catches (not reported by sex)								
Mid-point of length group (cm)	4V				4W			
	Mar	Mar	Apr	Jun	Jul	Oct	Nov	
9	-	-	-	-	3	-	-	
10	-	-	-	-	11	-	-	
11	2	-	-	-	20	-	-	
12	8	2	-	-	7	-	-	
13	44	5	-	-	3	-	-	
14	91	11	-	5	10	-	7	
15	134	12	-	15	41	3	8	
16	123	28	2	50	47	15	23	
17	180	51	8	55	63	26	58	
18	148	72	20	165	108	107	152	
19	99	59	33	135	105	155	202	
20	52	80	70	160	62	231	216	
21	38	73	75	135	62	161	155	
22	28	89	78	125	40	115	82	
23	26	71	78	35	28	100	51	
24	15	80	78	45	15	52	21	
25	7	59	108	35	15	18	12	
26	3	46	83	10	20	12	9	
27	1	56	80	10	24	1	3	
28	-	41	47	10	37	1	1	
29	1	40	47	5	25	1	-	
30	-	25	50	-	27	-	-	
31	-	23	33	5	20	1	-	
32	-	29	52	-	17	1	-	
33	-	19	32	-	5	-	-	
34	-	21	17	-	30	-	-	
35	-	5	7	-	41	-	-	
36	-	2	2	-	30	-	-	
37	-	1	-	-	24	-	-	
38	-	-	-	-	30	-	-	
39	-	-	-	-	20	-	-	
40	-	-	-	-	10	-	-	
	1000	1000	1000	1000	1000	1000	1000	
N _c (000)								
W _c (tons)								
Samples (L)	5	3	2	1	3	6	9	
No. Meas.	1500	950	600	200	600	1200	1800	
W _L (cm)	17.3	23.3	25.3	20.3	23.6	20.6	19.8	
W _L (gm)	0.070	0.202	0.243	0.139	0.259	0.129	0.106	
Mesh (mm)	40	40	40	40	40	40	40	
Depth (m)	13-245	20-245	200-240	35-145	75-185	110-185	80-245	
AGE GROUP								
Total								
Samples (A)								
No. Aged								

TABLE 4. LENGTH AND AGE FREQUENCIES - REDFISH 1970 - USSR - 4X, 5Ze

COUNTRY: USSR		GEAR: Otter trawl			
Commercial catches (not reported by sex)					
Mid-point of length group (cm)	4X			5Ze	
	May			Mar	Nov
LENGTH GROUP	15	7			-
	16	20		-	-
	17	30		-	-
	18	49		-	-
	19	57		-	-
	20	129		-	-
	21	140		-	-
	22	199		-	50
	23	162		-	110
	24	97		5	160
	25	54		5	190
	26	24		-	205
	27	21		10	105
	28	9		15	60
	29	2		45	45
	30	-		75	25
	31	-		140	30
	32	-		140	20
	33	-		175	-
	34	-		55	-
35	-		110	-	
36	-		80	-	
37	-		35	-	
38	-		60	-	
39	-		45	-	
40	-		5	-	
		1000		1000	1000
N _c (000)					
W _c (tons)					
Samples (L)	3			1	1
No. Meas.	900			200	200
L (cm)	21.7			33.2	25.6
W (gm)	0.153			0.589	0.239
Mesh (mm)	40			40	40
Depth (m)	230-285			230	155-185
AGE GROUP					
Total					
Samples (A)					
No. Aged					

TABLE 5. LENGTH AND AGE FREQUENCIES - REDFISH 1971 - USSR - 4V, 4W, 5Ze

COUNTRY: USSR		GEAR: Otter trawl					
Commercial catches (not reported by sex)							
Mid-point of length group (cm)	4V		4W		5Ze		
	Feb	Mar	Nov	Jul	Sep	Nov	
LENGTH GROUP	13	-	5	-	-	-	-
	14	-	15	-	-	-	-
	15	5	15	-	-	-	-
	16	25	40	-	-	-	-
	17	45	130	-	-	-	-
	18	55	200	-	-	-	-
	19	40	205	30	10	-	-
	20	20	145	65	-	-	-
	21	25	75	115	10	-	-
	22	40	35	145	5	8	15
	23	95	20	185	40	4	35
	24	105	25	155	65	10	75
	25	90	20	155	175	39	155
	26	115	10	95	120	76	120
	27	110	15	35	195	91	120
	28	80	5	15	110	102	120
	29	60	5	-	90	121	40
	30	45	5	-	80	103	70
	31	30	5	5	40	103	50
	32	15	5	-	40	116	70
33	-	5	-	5	81	35	
34	-	5	-	10	21	50	
35	-	10	-	5	14	15	
36	-	-	-	-	16	20	
37	-	-	-	-	8	5	
38	-	-	-	-	24	5	
39	-	-	-	-	18	-	
40	-	-	-	-	21	-	
41	-	-	-	-	15	-	
42	-	-	-	-	8	-	
43	-	-	-	-	1	-	
	1000	1000	1000	1000	1000	1000	
N _c (000)							
W _c (tons)							
Samples (L)		1	1	1	4	1	
No. Meas.		200	200	200	800	200	
L (cm)		24.5	19.8	23.3	30.4	28.1	
W (gm)		0.270	0.138	0.188	0.462	0.231	
Mesh (mm)		40	40	40	40	40	
Depth (m)		185-255	210	210-240	145-155	165-180	
AGE GROUP							
Total							
Samples (A)							
No. Aged							

TABLE 7. LENGTH AND AGE FREQUENCIES - WITCH 1970 - USSR - 4W

COUNTRY: USSR			GEAR: Otter trawl									
Commercial catches (not reported by sex)												
Mid-point of length group (cm)	COMPOSITION OF CATCHES/LANDINGS											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
LENGTH GROUP	(2 cm)											
	24.5					20						
	26.5					50						
	28.5					90						
	30.5					30						
	32.5					55						
	34.5					120						
	36.5					75						
	38.5					120						
	40.5					80						
	42.5					125						
	44.5					85						
	46.5					50						
	48.5					65						
	50.5					30						
	52.5					5						
						1000						
N _c (000)												
W _c (tons)												
Samples (L)						1						
No. Meas.						200						
L (cm)						38.1						
W (gm)						0.44						
Mesh (mm)						40						
Depth (m)						110-120						
AGE GROUP												
Total												
Samples (A)												
No. Aged												

TABLE 8. LENGTH AND AGE FREQUENCIES - HERRING 1970 - Poland - 4W, 4X¹

COUNTRY: POLAND			GEAR: Otter trawl			
Research catches						
Mid-point of length group (cm)		4W	4X			
		Aug	Aug			
LENGTH GROUP	28	5	1			
	29	2	4			
	30	15	22			
	31	79	50			
	32	185	175			
	33	273	342			
	34	161	273			
	35	118	87			
	36	101	25			
	37	37	14			
	38	19	7			
	39	5	-			
			1000	1000		
	N _c (000)					
W _c (tons)						
Samples (L)		1	2			
No. Meas.		396	751			
L (cm)		33.5	33.2			
W (gm)						
Mesh (mm)						
Depth (m)						
AGE GROUP	67	3	2	4		
	66	4	-	-		
	65	5	13	14		
	64	6	39	34		
	63	7	405	432		
	62	8	196	242		
	61	9	101	129		
	60	10	149	93		
	59	11	95	52		
Total		1000	1000			
Samples (A)			2			
No. Aged		(4X key used)	171			

¹ These data replace the figures given on page 225 of Sampling Yearbook, Vol. 15.

TABLE 9. LENGTH AND AGE FREQUENCIES - HERRING 1970 - Poland - 5Zw, 6A¹

COUNTRY: POLAND		GEAR: Otter trawl				
Commercial catches						
Mid-point of length group (cm)	5Zw				6A	
	May	Jun			May	
16	1	-			-	
17	6	-			-	
18	15	2			-	
19	14	11			-	
20	6	10			-	
21	13	7			-	
22	18	13			-	
23	11	15			-	
24	9	25			-	
25	3	26			-	
26	4	51			-	
27	9	137			-	
28	22	180			12	
29	34	164			32	
30	76	85			107	
31	92	46			234	
32	138	51			321	
33	261	82			239	
34	205	66			50	
35	58	25			5	
36	5	4			-	
	1000	1000			1000	
N _c (000)						
W _c (tons)						
Samples (L)						
No. Meas.	4179	6344			745	
\bar{L} (cm)	31.2	28.6			31.7	
\bar{W} (gm)						
Mesh (mm)					85-90	
Depth (m)						
AGE GROUP	68	2	39	19	-	
	67	3	52	87	-	
	66	4	60	429	45	
	65	5	105	191	169	
	64	6	96	52	265	
	63	7	149	53	216	
	62	8	135	43	154	
	61	9	156	53	93	
	60	10	204	71	57	
	59	11	4	2	1	
Total	1000	1000			1000	
Samples (A)		25			2	
No. Aged		2433			187	

¹ These data replace the frequencies given on page 271 of Sampling Yearbook, Vol. 15.

TABLE 10. LENGTH AND AGE FREQUENCIES - HERRING 1971 - USA - 5Y (North)¹

COUNTRY: USA			GEAR: Not reported											
Commercial catches														
	Mid-point of length group (cm)	COMPOSITION OF CATCHES/LANDINGS												
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
LENGTH GROUP	8					-	-	-	3	18	22			
	9					-	-	-	35	155	360			
	10					-	-	-	104	110	160			
	11					-	-	-	149	160	-			
	12					7	5	-	112	153	4			
	13					33	10	4	59	95	10			
	14					113	16	6	4	117	62			
	15					133	60	20	-	88	231			
	16					147	88	77	-	15	107			
	17					147	112	121	-	2	9			
	18					113	89	126	2	10	4			
	19					60	76	166	19	2	13			
	20					32	23	111	80	23	9			
	21					40	8	55	101	35	9			
	22					7	16	14	67	15	-			
	23					-	55	18	29	2	-			
	24					-	83	36	24	-	-			
	25					-	112	53	19	-	-			
	26					-	68	73	35	-	-			
	27					-	55	38	48	-	-			
	28					7	57	34	37	-	-			
	29					67	31	28	27	-	-			
	30					20	18	12	27	-	-			
	31					27	10	4	5	-	-			
	32					27	5	4	3	-	-			
	33					7	3	-	8	-	-			
	34					13	-	-	3	-	-			
							1000	1000	1000	1000	1000	1000		
	N _c (000)													
	W _c (tons)													
	Samples (L)													
	No. Meas.													
	L (cm)													
	W (gm)													
Mesh (mm)														
Depth (m)														
AGE GROUP	70	1				-	-	-	467	896	910			
	69	2				693	474	650	178	102	90			
	68	3				139	208	170	155	2	-			
	67	4				-	243	166	125	-	-			
	66	5				7	70	46	69	-	-			
	65	6				80	5	4	6	-	-			
	64	7				27	-	-	-	-	-			
	63	8				34	-	-	-	-	-			
	62	9				20	-	-	-	-	-			
Total														
						1000	1000	1000	1000	1000	1000			
Samples (A)														
No. Aged														
						6	25		13					
						150	619		325					

¹ Inshore, north of New Hampshire-Maine border.

TABLE 12. LENGTH AND AGE FREQUENCIES - MACKEREL 1970 - Bulgaria - 6B

COUNTRY: BULGARIA		GEAR: Pelagic trawl			
Commercial catches					
Mid-point of length group (cm)	COMPOSITION OF CATCHES/LANDINGS				
	Feb - Apr				
LENGTH GROUP	25	7			
	26	112			
	27	229			
	28	207			
	29	123			
	30	106			
	31	61			
	32	82			
	33	36			
	34	25			
	35	-			
	36	2			
	37	4			
	38	2			
	39	2			
	40	2			
		1000			
N _c (000)					
W _c (tons)					
Samples (L)		1			
No. Meas.		500			
L _m (cm)		25.8			
W (gm)		0.167			
Mesh (mm)		-			
Depth (m)		-			
AGE GROUP					
Total					
Samples (A)					
No. Aged					

TABLE 13. LENGTH AND AGE FREQUENCIES - MACKEREL 1971 - Bulgaria - 5Z, 6

COUNTRY: BULGARIA		GEAR: Pelagic trawl			
Commercial catches					
Mid-point of length group (cm)	5Z+6		5Zw		
	Jan - Mar	Jun	Nov		
LENGTH GROUP	19	2	-	-	
	20	6	4	-	
	21	13	13	-	
	22	8	72	-	
	23	24	116	-	
	24	99	104	-	
	25	123	102	-	
	26	65	196	-	
	27	40	104	11	
	28	33	41	92	
	29	92	36	153	
	30	130	72	133	
	31	100	61	146	
	32	84	24	146	
	33	67	27	130	
	34	61	14	106	
	35	23	10	61	
	36	8	2	15	
	37	4	-	7	
	38	11	1	-	
39	5	1	-		
40	2	-	-		
		1000	1000	1000	
N _c (000)					
W _c (tons)					
Samples (L)		4	3	1	
No. Meas.		2536	1120	556	
L _c (cm)		29.4	26.9	31.8	
W _c (gm)		0.237	0.210	0.327	
Mesh (mm)		-	-	-	
Depth (m)		-	-	-	
AGE GROUP					
Total					
Samples (A)					
No. Aged					

TABLE 14. LENGTH AND AGE FREQUENCIES - MACKEREL 1968 - USSR - 5Z

COUNTRY: USSR			GEAR: Otter trawl									
Commercial catches												
Mid-point of length group (cm)	COMPOSITION OF CATCHES/LANDINGS											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
LENGTH GROUP	20						-	-	-	-	1	-
	21						-	4	-	-	7	-
	22						-	26	19	-	66	16
	23						-	23	86	7	221	55
	24						-	15	116	7	179	82
	25						-	4	52	63	53	83
	26						-	2	14	70	41	64
	27						-	7	10	40	34	28
	28						-	22	38	33	67	30
	29						3	30	65	33	68	38
	30						7	39	103	107	61	28
	31						10	94	136	190	66	30
	32						110	152	137	257	62	54
	33						190	210	100	113	23	33
	34						300	242	57	50	12	26
	35						270	86	20	17	4	16
	36						60	31	9	3	6	47
	37						33	9	5	7	10	134
	38						7	3	1	3	11	115
	39						10	1	1	-	4	82
40						-	-	-	-	4	32	
41						-	-	-	-	-	7	
							1000	1000	1000	1000	1000	1000
N _c (000)												
W _c (tons)												
Samples (L)												
No. Meas.												
x̄ _L (cm)												
x̄ _W (gm)												
Mesh (mm)												
Depth (m)												
AGE GROUP	68	0					-	-	-	-	8	-
	67	1					-	74	281	252	699	380
	66	2					6	80	170	598	222	148
	65	3					609	578	470	132	37	103
	64	4					385	268	79	12	9	101
	63	5					-	-	-	5	18	178
	62	6					-	-	-	1	7	87
	61	7					-	-	-	-	-	3
Total												
Samples (A)												
No. Aged												

TABLE 15. LENGTH AND AGE FREQUENCIES - MACKEREL 1969 - USSR - 5Z

COUNTRY: USSR			GEAR: Otter trawl										
Commercial catches													
Mid-point of length group (cm)	COMPOSITION OF CATCHES/LANDINGS												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
LENGTH GROUP	17			-	-	-	-	-	-	-	3	-	
	18			-	-	-	-	-	-	-	15	-	
	19			-	-	-	-	-	-	-	14	-	
	20			-	-	-	-	-	-	-	13	1	
	21			-	-	-	-	-	-	-	6	2	
	22				11	-	7	-	-	-	1	2	1
	23				82	4	24	-	-	-	2	1	-
	24				218	20	24	-	-	-	3	4	6
	25				164	48	57	7	3	2	27	33	18
	26				85	78	180	29	41	4	78	84	75
	27				42	108	214	23	91	38	172	196	186
	28				49	133	130	21	61	54	106	169	214
	29				66	109	63	60	35	60	94	129	152
	30				48	59	59	119	99	103	90	92	76
	31				36	64	58	175	168	158	92	64	47
	32				53	79	50	275	232	231	158	73	42
	33				32	112	42	191	149	184	94	47	33
	34				19	76	43	70	70	98	55	26	22
	35				9	62	31	17	23	32	15	9	20
	36				9	31	12	7	16	20	8	5	22
	37				22	11	3	5	11	11	3	5	30
38				21	3	2	1	1	3	2	4	28	
39				18	2	-	-	-	1	-	4	17	
40				11	1	-	-	-	1	-	2	7	
41				4	-	1	-	-	-	-	-	1	
42				1	-	-	-	-	-	-	-	-	
				1000	1000	1000	1000	1000	1000	1000	1000	1000	
N _c (000)													
W _c (tons)													
Samples (L)													
No. Meas.				900	4888	5638	4855	1500	4416	4705	13054	7010	
L (cm)				27.6	30.1	28.4	31.4	31.1	31.7	29.8	28.5	29.6	
W (gm)				0.226	0.272	0.264	0.341	0.342	0.351	0.298	0.249	0.262	
Mesh (mm)				44	44	44	44	44	44	44	44	44	
Depth (m)				85-170	25-110	20-75	50-70	45-85	60-100	20-85	20-90	35-70	
AGE GROUP	69	0		-	-	-	-	-	-	-	48	-	
	68	1		-	-	-	-	-	-	13	17	16	
	67	2		692	446	658	72	147	65	617	720	723	
	66	3		179	365	251	524	476	517	345	189	147	
	65	4		50	167	83	384	361	396	23	19	74	
	64	5		(38)	(22)	(8)	20	16	22	2	7	40	
	63	6		(41)									
			() = estimated										
Total				1000	1000	1000	1000	1000	1000	1000	1000	1000	
Samples (A)					5			3			2		
No. Aged					492			257			198		

TABLE 16. LENGTH AND AGE FREQUENCIES - MACKEREL 1970 - USSR - 5Z

COUNTRY: USSR			GEAR: Otter trawl									
Commercial catches												
Mid-point of length group (cm)	COMPOSITION OF CATCHES/LANDINGS											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
LENGTH GROUP	19			-	-	3				-	-	-
	20			-	-	17				-	-	22
	21			-	-	15				-	-	41
	22			-	-	17				-	-	38
	23			-	1	7				-	12	25
	24			-	1	2				2	30	41
	25			-	1	1				2	52	84
	26			5	4	2				-	60	78
	27			39	32	32				1	68	54
	28			159	162	206				24	130	44
	29			196	273	262				70	162	76
	30			107	195	133				164	158	132
	31			67	106	89				248	136	113
	32			52	78	86				200	94	90
	33			52	70	72				153	56	65
	34			50	38	39				80	27	39
	35			37	14	13				28	9	21
	36			28	8	2				23	3	8
	37			44	4	1				2	2	9
	38			64	6	1				-	1	9
39			63	3	-				3	-	4	
40			28	2	-				-	-	4	
41			7	1	-				-	-	3	
42			2	1	-				-	-	-	
					1000	1000	1000			1000	1000	1000
N _c (000)												
W _c (tons)												
Samples (L)												
No. Meas.												
l (cm)												
w (gm)												
Mesh (mm)												
Depth (m)												
AGE GROUP	70	0			-	-	-			-	-	30
	69	1			-	-	52			23	259	346
	68	2			7	8	15			139	196	132
	67	3			551	728	695			682	488	393
	66	4			180	202	193			123	52	64
	65	5			72	43	41			25	2	4
	64	6			30	5	2			7	2	8
	63	7			29	3	1			1	1	11
	62	8			53	5	-			-	-	5
	61	9			51	5	1			-	-	7
60	10			25	1	-			-	-	-	
	10+			2	-	-			-	-	-	
Total												
Samples (A)												
No. Aged												
			1000			1000			1000			
						9			7			
						860			695			

TABLE 17. LENGTH AND AGE FREQUENCIES - MACKEREL 1970 - USSR - SA 6

COUNTRY: USSR		GEAR: Otter trawl											
Commercial catches													
Mid-point of length group (cm)		COMPOSITION OF CATCHES/LANDINGS											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
LENGTH GROUP	16	1	-	-	-	-						-	-
	17	3	-	14	-	-						-	-
	18	11	-	58	-	-						-	-
	19	15	-	162	-	-						-	-
	20	9	-	183	-	-						-	-
	21	8	-	98	-	1						-	2
	22	4	-	37	-	-						-	5
	23	4	-	9	-	-						-	18
	24	3	1	2	-	1						-	40
	25	16	6	1	7	1						-	72
	26	78	21	22	93	18						-	41
	27	144	89	46	225	96						-	22
	28	128	139	61	225	225						-	9
	29	100	119	48	119	255						15	47
	30	96	79	35	70	216						45	107
	31	93	122	47	54	87						140	179
	32	105	125	59	58	50						130	141
	33	74	130	55	51	32						100	101
	34	36	61	27	25	10						115	51
	35	13	31	12	16	4						85	44
36	11	12	8	11	2						150	31	
37	14	18	6	14	2						105	18	
38	18	21	8	15	-						75	25	
39	10	15	2	11	-						30	26	
40	5	10	-	5	-						5	20	
41	1	1	-	1	-						5	1	
		1000	1000	1000	1000	1000						1000	1000
N _c (000)													
W _c (tons)													
Samples (L)													
No. Meas.		3890	678	1600	5713	1200						200	1000
L (cm)		29.4	31.0	24.5	29.3	29.3						34.2	31.1
W (gm)		0.260	0.279	0.159	0.281	0.253						0.369	0.303
Mesh (mm)		44	44	44	44	44						44	44
Depth (m)		20-35	20-30	40-70	45-140	95-140						115	45-55
AGE GROUP	69	1	50	-	503	-	1					-	178
	68	2	53	22	66	306	18					20	60
	67	3	582	540	251	472	803					367	459
	66	4	234	326	141	152	165					309	173
	65	5	31	44	19	23	10					151	57
	64	6	9	11	4	10	2					38	14
	63	7	8	10	4	7	-					23	9
	62	8	14	19	5	15	1					44	17
	61	9	15	22	7	9	-					35	25
	60	10	4	6	-	6	-					13	8
Total		1000	1000	1000	1000	1000						1000	1000
Samples (A)		6											
No. Aged		585											
		5											
		464											
		3											
		300											

TABLE 18. LENGTH AND AGE FREQUENCIES - MACKEREL 1971 - USSR - 5Z

COUNTRY: USSR			GEAR: Otter trawl									
Commercial catches												
Mid-point of length group (cm)	COMPOSITION OF CATCHES/LANDINGS											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
LENGTH GROUP	21				3	-	-	-	-	-	-	-
	22				5	2	-	-	-	-	-	3
	23				7	40	-	-	-	-	-	2
	24				7	98	2	1	-	-	-	1
	25				30	73	19	3	1	-	-	3
	26				57	150	34	22	8	3	2	22
	27				44	258	51	57	54	13	23	66
	28				48	142	97	80	95	26	88	154
	29				64	92	71	70	69	29	171	129
	30				202	55	146	72	93	68	167	105
	31				177	30	183	100	69	89	122	119
	32				126	5	172	144	146	182	109	139
	33				91	-	119	143	138	217	101	105
	34				40	-	73	146	119	120	87	69
	35				30	-	26	110	125	110	63	36
	36				18	-	3	35	51	75	31	18
	37				6	-	4	7	27	40	18	6
	38				10	-	-	5	3	16	7	8
	39				10	-	-	-	1	8	8	6
	40				23	-	-	5	1	4	3	4
	41				1	-	-	-	-	-	-	3
	42				1	-	-	-	-	-	-	2
					1000	1000	1000	1000	1000	1000	1000	1000
N _c (000)												
W _c (tons)					14046 ¹	5110 ¹	4756	4390	2029	1185	4189 ¹	12056 ¹
Samples (L)					-	-	-	-	-	-	-	-
No. Meas.					796	400	740	3000	1800	800	3200	3400
L (cm)					31.1	27.5	30.7	31.8	32.0	33.0	31.3	30.8
W (gm)					0.312	0.195	0.300	0.377	0.371	0.396	0.313	0.302
Mesh (mm)					44	44	44	44	44	44	44	44
Depth (m)					105-150	50-130	55-95	55-140	-	70-90	30-80	30-80
AGE GROUP	71	0			-	-	-	-	-	-	-	7
	70	1			9	37	23	10	4	4	10	28
	69	2			106	398	232	196	197	101	308	358
	68	3			111	350	122	80	81	83	136	119
	67	4			530	196	450	390	374	510	381	357
	66	5			145	18	162	284	293	241	129	102
	65	6			42	1	11	35	50	51	28	16
	64	7			16	-	-	5	1	6	5	6
	63	8			4	-	-	-	-	4	3	7
	62	9			5	-	-	-	-	-	-	-
	61	10			13	-	-	-	-	-	-	-
	10+			19	-	-	-	-	-	-	-	
Total					1000	1000	1000	1000	1000	1000	1000	1000
Samples (A)					5		3			3		
No. Aged					497		293			247		

¹ Totals include purse seine catches of 558 tons in May, 262 in June, 90 in November and 344 in December.

TABLE 19. LENGTH AND AGE FREQUENCIES - MACKEREL 1971 - USSR - SA 6

COUNTRY: USSR		GEAR: Otter trawl											
Commercial catches													
Mid-point of length group (cm)	COMPOSITION OF CATCHES/LANDINGS												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
LENGTH GROUP	18	-	2	-	6	-					-	-	
	19	2	5	-	38	-					-	-	
	20	6	22	-	156	6					-	-	
	21	6	17	-	68	-					-	-	
	22	8	14	-	15	9					-	-	
	23	28	31	1	20	30					-	-	
	24	68	66	9	24	121					-	1	
	25	70	82	22	42	321					-	1	
	26	40	41	22	47	255					-	4	
	27	30	30	23	42	100					20	17	
	28	65	74	27	16	27					25	100	
	29	120	112	112	35	24					60	163	
	30	169	143	145	108	70					80	145	
	31	120	97	157	95	31					145	150	
	32	97	88	166	75	3					150	130	
	33	74	78	132	66	3					160	120	
	34	39	44	95	48	-					165	84	
	35	22	24	46	49	-					125	47	
	36	10	12	18	15	-					40	20	
	37	9	5	9	15	-					25	9	
38	9	8	11	4	-					5	4		
39	6	4	3	13	-					-	2		
40	1	1	1	3	-					-	1		
41	1	-	1	-	-					-	1		
42	-	-	-	-	-					-	1		
		1000	1000	1000	1000	1000					1000	1000	
N _c (000)													
W _c (tons)		10954	11689	8887	16623	3705					35	13946	
Samples (L)		-	-	-	-	-					-	-	
No. Meas.		26353	4625	470	546	330					200	4600	
L (cm)		29.4	28.9	31.3	27.6	26.0					32.5	31.2	
W (gm)		0.289	0.280	0.339	0.171	0.151					0.368	0.301	
Mesh (mm)		44	44	44	44	44					44	44	
Depth (m)		16-70	20-55	40-60	26-70	63-70					-	27-80	
AGE GROUP	70	1	28	66	-	301	64				24	40	
	69	2	198	210	62	131	687				93	260	
	68	3	78	79	53	47	118				102	145	
	67	4	499	455	550	278	124				606	472	
	66	5	150	149	268	182	7				140	55	
	65	6	23	24	42	34	-				22	18	
	64	7	4	4	5	5	-				13	8	
	63	8	2	1	1	10	-				-	2	
	62	9	1	1	-	7	-				-	-	
	61	10	13	9	15	5	-				-	-	
	10+	4	2	4	-	-				-	-		
Total		1000	1000	1000	1000	1000					1000	1000	
Samples (A)			5			4					1		
No. Aged			500			398					55		

PART IV

Listing of Research Survey Data

Several countries fishing in the ICNAF Area carry out, in addition to routine sampling of commercial catches, substantial research activities and consequently substantial sampling of catches taken on research vessel survey cruises. Unless such data can be directly related to commercial fisheries (e.g. fishing with similar gear in the same months and areas as the commercial fishing vessels), they are not normally reported to the Secretariat for inclusion in the Yearbook (e.g. Canada and USA report only commercial sampling data). However, a few countries have reported sampling data for various species taken during the normal course of their research survey activities, and these data have, in previous Yearbooks, been tabulated together with commercial sampling data.

In this issue of the Yearbook, practically all of the data given in Part I pertain to commercial fisheries. However, a substantial quantity of sampling data, derived directly from research vessel surveys in 1972, were submitted by France (St. Pierre and Miquelon) and Federal Republic of Germany. A complete listing of these data, together with some for USSR and Poland is given in the following table, and copies of the actual frequencies may be obtained from the Secretariat on request.

Year	Species	Country	Gear	Div.	Month	No. of samples	No. of lengths			No. of ages			
							♂	♀	Total				
1972	Cod	Fra(SP)	OT (50 mm)	3Ps	Feb	10	543	773	1316				
					May	19	1318	1323	2641				
					Apr	2	...	...	832		
				4R	Jul	10	529	625	1154				
					Nov	2	179	164	343				
					Apr	1	...	...	459		
				4T	4Vn	Mar	2	289	369	658			
						Apr	1	255			
						May	9	1116	1151	2267			
						Dec	4	650	676	1326			
				4Vs	Mar	2	420	383	803				
					FRG	OT (30 mm)	2H	Nov	3	153	94
								2J	Nov	4	3468	620
				3K					Nov	6	1696	798
1972	Redfish	Fra(SP)	OT (50 mm)	3Ps	Feb	13	1646	1734	3380				
					May	6	...	...	1502		
					Dec	1	...	...	336		
				4Vn	Mar	1	...	...	285		
					May ¹	4	...	...	565		
					May ²	1	...	...	418		
				4Vs	Mar	1	...	...	229		
					May	2	...	...	316		
					Dec	1	...	...	158		
				3Ps	May	12	...	...	2590		
					FRG	OT (30 mm)	2J	Nov	1	225	
				3K				Nov ³	2	584	
					Nov ⁴	1	...	...	419		
					Nov ⁵	1	...	...	205		

Year	Species	Country	Gear	Div.	Month	No. of samples	No. of lengths			No. of ages				
							♂	♀	Total					
1972	Silver hake	Fra(SP)	OT (50 mm)	4Vs	Mar	3	...	...	951			
					Apr	1	...	...	724			
					Dec	1	...	...	460			
				4W	Apr	1	...	...	200			
					May	1	...	...	349			
					Dec	1	...	...	366			
1972	A. plaice	Fra(SP)	OT (50 mm)	3Ps	Feb	12	458	614	1072					
					May	21	1616	1658	3274					
				4Vn	Apr	1	...	...	494			
					May	9	412	472	884					
					Dec	2	238	247	485					
				4Vs	Mar	1	189	315	504					
					Dec	2	...	...	517			
				1972	Witch	Fra(SP)	OT (50 mm)	3Ps	May	25	2594	
									Nov	3	595	
4Vn	Mar	1	...					...	445	
	Apr	1	...					...	176	
	May	3	...					...	806	
4Vs	Mar	1	...					...	101	
	4W	Mar	2					449				
1972	Yellowtail	Fra(SP)	OT (50 mm)					3Ps	May	3	204	
				May	5	...	...		587			
				4Vs	May	1	...	...	110			
					Dec	1	...	...	147			
1972	G. halibut	FRG	OT (30 mm)	2H	Nov	1	...	...	111			
					Nov	5	...	...	645			
				3K	Nov	5	...	...	528			
1972	RN grenadier	FRG	OT (30 mm)	2H	Nov	1	...	...	550			
					3K	Nov	1	334				
1972	<i>Gadus aoteanus</i>	FRG	OT (30 mm)	3K	Nov	2	...	...	213			
1972	Herring	Den(G)	...	1F	Jul		...	...	55			
					Fra(SP)	MT (50 mm)	3Pn	Apr		782	201	
		4R	Apr		...			...	3793	398
			Jul		...	...	830					
		4T	Apr		...	...	845	296				
			4Vn	Apr		...	...	1116				
		Nov			...	...	435					
		4Vs	Mar		...	...	89					
			Apr		...	...	2039					
			May		...	...	695					
		FRG	MT	3Ps	Mar	1	61	66	127	126				
					4X	Oct	1	50	50	100	100			
		USSR	OT (40 mm)	4X	Jan	1	...	...	200	100		
					5Z	Feb	1	200	521			
Mar	2					...	...	72				
Apr	2				...	...	375	232				
5Zw+6	Oct				2	...	...	2318	167			

Year	Species	Country	Gear	Div.	Month	No. of samples	No. of lengths			No. of ages
							♂	♀	Total	
1971	Mackerel	Bul	MT	6B	Mar	1	...	...	792	792
1971	Herring	USSR	...	5Zw+6	Oct	3	...	...	1254	269
1970	Mackerel	Bul	MT	5Zw	Mar	1	...	...	743	743
		FRG	MT	5Ze	Jul	4	...	...	644	
					Aug	5	...	...	1498	
				5Zw	Jul	3	...	...	592	
1970	Herring	Pol	...	4W	Aug	1	...	...	396	
				4X	Aug				751	171
		USSR	...	5Zw+6	Oct	3	...	...	1203	296

¹ NE Sydney and Scatarie Bank

² NW Misaine Bank

³ 300-325 metres

⁴ 500 metres

⁵ 600 metres



APPENDIX

Age-Length Keys

In previous issues of the Yearbook, age-length keys were presented with the length and age frequencies for some species, with the length frequencies only for others and in some cases without either length or age frequencies. In this issue a standard format is used to present the length and age frequencies for all species (Parts I and III), and all age-length keys, which have been used in the calculation of the age frequencies, are tabulated in this appendix in terms of the actual number of fish aged.

The following table of contents is a listing of the age-length keys by species, country, division, gear and quarter:

Year	Species	Country	Divisions	Gear	Quarters	Page		
1972	Cod	Canada (MQ)	4R, 4S	OT, LL	2, 3, 4	181		
			4T	OT	1, 2, 3, 4	182		
			4T	DS, GN	3, 4	183		
			4Vn	OT, LL	1, 3	184		
			4Vs, 4W	OT	1, 2, 4	185		
			4X	OT	1, 2, 3, 4	186		
			4X	LL	3, 4	187		
			5Ze	OT, LL	1, 3	188		
		Canada (N)	2J, 3K	TR, GN	3	189		
			3L	TR, GN	2, 3	190		
			3L	OT, HL	2, 3	191		
			3Pn, 3Ps	LL	1, 3	192		
			3Ps	TR, GN	2, 3	193		
			4R	TR, GN	2	194		
		Denmark (G)	1B	PN, HL	2, 3	195		
			1C, 1D	OT, PN	1, 2, 3	196		
			1D	OT, PN	2, 3, 4	197		
			1F	PN	2, 3	198		
		Fed.Rep. Germany	1C, 1D	OT	1, 2, 4	199		
			1E, 1F	OT	1, 2, 4	200		
			1F, SE G'land	OT	1, 2, 3, 4	201		
			E G'land	OT	1, 2	202		
		Poland	2J, 3K, 3L	OT	1	203		
		Portugal	1C	GN	2, 3	204		
		Spain	3L, 3M	OT	1, 3	205		
			4R, 4Vn	OT	1, 3	206		
		USSR	2J	OT	2	207		
		UK	1B, 1C, 1D	OT	1, 4	208		
			1E	OT	1, 2, 3, 4	209		
			1F	OT	1, 4	210		
			2J, 3M	OT	2, 3, 4	211		
		1972	Haddock	Canada (MQ)	4W	OT	1, 2, 4	212
					4W	LL	3, 4	213
4X	OT, LL, HL				1, 2, 3, 4	214		
USA	5Ze			OT	1, 2, 3, 4	215		

Year	Species	Country	Divisions	Gear	Quarters	Page	
1972	Silver hake	USSR	4V	OT	1	216	
			4W	OT	1, 2	217	
			5Ze	OT	1, 2	218	
			6	OT	1, 2	219	
1972	Red hake	USSR	5Ze	OT	1, 2	220	
			5Ze	OT	3, 4	221	
			5Zw, 6	OT	1, 3	222	
			6	OT	3, 4	223	
1972	Pollock	Canada (MQ)	4X	OT	2, 4	224	
1972	Amer. plaice	Canada (MQ)	4T	OT	3, 4	225	
			4Vs	OT	1, 2	226	
		Canada (N)	3L	OT	2, 3	227	
1972	Witch	Canada (MQ)	4Vs, 4W	OT, DS	1, 2, 4	228	
1972	Yellowtail	Canada (MQ)	4Vs	OT	2	229	
		Canada (N)	3L, 3N	OT	2	230	
1972	Herring	Canada (MQ)	3P, 4T	PS, GN	1, 2, 3, 4	231	
			4Vn	PS, MT, TR	1, 2, 3, 4	232	
			4W(a)	PS, MT, TR	1, 3	233	
			4X(a)	PS, MT,			
				GN, WR	1, 2, 3, 4	234	
			4X(b)	OT, MT,			
				PS, WR	1, 2, 3, 4	235	
			5Y	PS, WR	2, 3, 4	236	
			Fed.Rep. Germany	5Y, 5Ze	MT	3, 4	237
			Poland	5Z, 6	OT	2, 3, 4	238
		USSR	4V, 4W	OT	1, 2, 3	239	
			5Z	OT	2, 3, 4	240	
			6	OT	1, 2	241	
USA	5Y(n)	...	2, 3, 4	242			
	5Y(s)	...	2, 3, 4	243			
1972	Mackerel	Bulgaria	5Z	MT	2, 4	244	
			6	MT	1	245	
		Poland	5Z	OT	1, 2, 3	246	
			6	OT	1, 2	247	
		USSR	5Z	OT	1, 2, 3, 4	248	
			6	OT	1, 2, 3, 4	249	
1971	Cod	Poland	2H, 2J, 3K	OT	1, 2	250	
	Herring	USA	5Y(n)	...	2, 3, 4	251	
	Mackerel	Bulgaria	5Z, 6	MT	1, 2, 4	252	
		USSR	5Z	OT	2, 3, 4	253	
	6	OT	1, 2, 4	254			
1970	Herring	Poland	4X, 5Z, 6	OT	2, 3	255	
	Mackerel	Bulgaria	6	MT	1, 2	256	
		USSR	5Z	OT	1, 2, 4	257	
			6	OT	1, 2, 4	258	
1969	Mackerel	Bulgaria	6	MT	3	256	
		USSR	5Z	OT	2, 3, 4	259	
1968	Mackerel	USSR	5Z	OT	3, 4	260	

Year: 1972		Country: Canada (M)		Species: Cod										
Quarter: 2nd		Gear: Otter trawl		Division: 4R										
Structures used in aging: Otoliths			Reported by: Halliday & Fitzgerald											
Length	Age											Total		
	4	5	6	7	8	9	10	11	12	13	14		15	16
40	-	1	-	-	-	-	-	-	-	-	-	-	-	1
43	2	1	-	-	-	-	-	-	-	-	-	-	-	3
46	-	1	1	-	1	-	-	-	-	-	-	-	-	3
49	-	-	2	1	-	-	-	-	-	-	-	-	-	3
52	-	-	-	2	1	-	-	-	-	-	-	-	-	3
55	-	-	-	3	-	-	-	-	-	-	-	-	-	3
58	-	-	-	2	1	-	-	-	-	-	-	-	-	3
61	-	-	-	1	2	-	-	-	-	-	-	-	-	3
64	-	-	-	-	1	2	-	-	-	-	-	-	-	3
67	-	-	-	-	1	1	-	-	-	-	-	-	-	2
70	-	-	-	-	2	-	1	-	-	-	-	-	-	3
73	-	-	-	-	-	2	1	-	-	-	-	-	-	3
76	-	-	-	1	-	-	-	1	-	-	-	-	-	2
79	-	-	-	-	-	1	-	2	-	-	-	-	-	3
82	-	-	-	-	-	1	1	1	-	-	-	-	-	3
85	-	-	-	-	-	-	-	1	-	-	-	-	-	1
88	-	-	-	-	-	1	1	-	-	-	-	-	-	2
91	-	-	-	-	-	-	1	-	-	-	-	-	1	2
94	-	-	-	-	-	-	-	1	1	-	-	-	-	2
97	-	-	-	-	-	-	-	-	-	-	-	-	1	-
100	-	-	-	-	-	-	-	-	-	-	-	-	1	1
---	-	-	-	-	-	-	-	-	-	-	-	-	-	-
109	-	-	-	-	-	-	-	-	-	-	-	1	-	1
No. of Comm. Samples = 1														
Total	2	3	6	7	9	8	6	6	-	-	-	1	2	50

Year: 1972		Country: Canada (M)		Species: Cod			
Quarter: 4th		Gear: Otter trawl		Division: 4S			
Structures used in aging: Otoliths			Reported by: Halliday & Fitzgerald				
Length	Age					Total	
	4	5	6	7	8		9
43	3	-	-	-	-	3	
46	1	2	-	-	-	3	
49	-	1	1	1	-	3	
52	-	1	1	1	-	3	
55	-	-	2	-	1	3	
58	-	-	-	2	1	3	
61	-	-	-	-	2	1	3
64	-	-	1	2	-	-	3
67	-	-	-	1	2	-	3
70	-	-	-	-	1	2	3
73	-	-	-	-	2	-	2
76	-	-	-	-	-	-	-
79	-	-	-	-	1	1	2
No. of Comm. Samples = 1							
Total	4	4	5	6	9	6	34

Year: 1972		Country: Canada (M)		Species: Cod										
Quarter: 3rd		Gear: Longline		Division: 4S										
Structures used in aging: Otoliths			Reported by: Halliday & Fitzgerald											
Length	Age											Total		
	4	5	6	7	8	9	10	11	12	13	14		15	16
40	3	-	-	-	-	-	-	-	-	-	-	-	-	3
43	-	2	-	1	-	-	-	-	-	-	-	-	-	3
46	-	2	1	-	-	-	-	-	-	-	-	-	-	3
49	-	1	1	2	-	-	-	-	-	-	-	-	-	4
52	-	1	1	2	-	-	-	-	-	-	-	-	-	4
55	-	-	1	1	-	-	1	-	-	-	-	-	-	3
58	-	-	-	-	2	1	-	-	-	-	-	-	-	3
61	-	-	-	-	1	1	-	-	-	-	-	-	-	2
64	-	-	-	-	2	-	1	-	-	-	-	-	-	3
67	-	-	-	-	1	1	1	-	-	-	-	-	-	3
70	-	-	-	-	-	1	2	1	-	-	-	-	-	4
73	-	-	-	-	1	1	-	-	-	-	-	-	-	2
76	-	-	-	-	-	-	-	-	1	-	1	1	-	3
79	-	-	-	-	-	2	-	-	-	-	-	-	-	2
82	-	-	-	-	-	-	-	-	-	-	1	-	1	2
85	-	-	-	-	1	-	-	-	-	-	1	-	-	2
88	-	-	-	-	-	-	-	-	-	1	-	-	-	1
---	-	-	-	-	-	-	-	-	-	-	-	-	-	-
103	-	-	-	-	-	-	-	1	-	-	-	-	-	1
106	-	-	-	-	-	-	-	-	1	-	-	-	-	1
---	-	-	-	-	-	-	-	-	-	-	-	-	-	-
133	-	-	-	-	-	-	-	-	-	-	-	1	-	1
No. of Comm. Samples = 1														
Total	3	6	4	6	8	7	4	4	2	-	3	1	2	50

Year: 1972		Country: Canada (M)		Species: Cod					
Quarter: 1st		Gear: Otter trawl		Division: 4T					
Structures used in aging: Otoliths			Reported by: Halliday & Fitzgerald						
Length	Age								Total
	3	4	5	6	7	8	9	10	
28	2	1	-	-	-	-	-	-	3
31	2	2	-	-	-	-	-	-	4
34	1	10	-	-	-	-	-	-	11
37	-	11	2	-	-	-	-	-	13
40	-	7	4	-	-	-	-	-	11
43	-	2	8	-	-	-	-	-	10
46	-	1	7	2	1	-	-	-	11
49	-	-	1	6	5	-	-	-	12
52	-	-	-	4	6	1	-	-	11
55	-	-	-	4	4	5	-	-	13
58	-	-	-	-	5	2	1	-	8
61	-	-	-	1	2	9	-	-	12
64	-	-	-	-	1	4	-	1	6
67	-	-	-	-	1	2	-	-	3
70	-	-	-	-	-	3	-	-	3
73	-	-	-	-	-	1	-	-	1
76	-	-	-	-	-	-	-	-	-
79	-	-	-	-	-	1	-	-	1
--	-	-	-	-	-	-	-	-	-
88	-	-	-	-	-	1	-	-	1
No. of Comm. Samples = 3									
Total	5	34	22	17	25	28	2	1	134

Year: 1972		Country: Canada (M)		Species: Cod											
Quarter: 2nd		Gear: Otter trawl		Division: 4T											
Structures used in aging: Otoliths			Reported by: Halliday & Fitzgerald												
Length	Age													Total	
	2	3	4	5	6	7	8	9	10	11	12	13	14		14+
25	1	2	-	-	-	-	-	-	-	-	-	-	-	-	3
28	1	3	-	-	-	-	-	-	-	-	-	-	-	-	4
31	-	6	5	-	-	-	-	-	-	-	-	-	-	-	11
34	-	6	5	-	-	-	-	-	-	-	-	-	-	-	11
37	-	-	12	-	-	-	-	-	-	-	-	-	-	-	12
40	-	-	14	1	-	-	-	-	-	-	-	-	-	-	15
43	-	-	5	17	-	-	-	-	-	-	-	-	-	-	22
46	-	-	1	14	4	3	-	-	-	-	-	-	-	-	22
49	-	-	-	6	6	10	-	-	-	-	-	-	-	-	22
52	-	-	-	3	8	7	4	-	-	-	-	-	-	-	22
55	-	-	-	-	11	9	5	-	-	-	-	-	-	-	25
58	-	-	-	-	3	10	9	1	-	-	-	-	-	-	23
61	-	-	-	-	3	10	5	1	1	-	-	-	-	-	20
64	-	-	-	-	-	9	6	2	-	-	-	-	-	-	17
67	-	-	-	-	-	4	13	3	-	-	-	-	-	-	20
70	-	-	-	-	-	2	6	-	1	-	-	-	-	1	10
73	-	-	-	-	-	-	4	3	-	-	-	-	-	1	8
76	-	-	-	-	-	-	5	3	1	1	-	-	-	-	10
79	-	-	-	-	-	1	1	3	2	2	1	1	-	-	11
82	-	-	-	-	-	-	2	5	2	-	-	-	1	-	10
85	-	-	-	-	-	-	-	5	2	-	-	-	-	-	7
88	-	-	-	-	-	-	-	-	4	1	1	-	-	-	6
91	-	-	-	-	-	-	-	1	1	-	-	-	-	-	2
94	-	-	-	-	-	-	-	-	1	2	-	-	-	-	3
97	-	-	-	-	-	-	-	-	1	-	1	1	-	-	3
100	-	-	-	-	-	-	-	-	1	-	-	1	-	1	3
103	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1
106	-	-	-	-	-	-	-	-	-	-	1	-	-	1	2
---	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
124	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
No. of Comm. Samples = 8															
Total	2	17	42	41	35	65	61	28	17	5	3	4	1	5	326

Year: 1972		Country: Canada (M)		Species: Cod										
Quarter: 3rd		Gear: Otter trawl		Division: 4T										
Structures used in aging: Otoliths			Reported by: Halliday & Fitzgerald											
Length	Age										Total			
	4	5	6	7	8	9	10	11	12	13		14	15	16
37	1	-	-	-	-	-	-	-	-	-	-	-	-	1
40	9	-	-	-	-	-	-	-	-	-	-	-	-	9
43	6	3	-	-	-	-	-	-	-	-	-	-	-	9
46	-	7	1	1	-	-	-	-	-	-	-	-	-	9
49	-	6	3	-	-	-	-	-	-	-	-	-	-	9
52	-	1	3	4	1	-	-	-	-	-	-	-	-	9
55	-	-	1	2	4	-	-	-	-	-	-	-	-	7
58	-	-	4	4	1	-	-	-	-	-	-	-	-	9
61	-	-	1	2	3	2	-	-	-	-	-	-	-	8
64	-	-	1	4	2	-	-	-	-	-	-	-	-	7
67	-	-	-	4	1	1	1	1	-	-	-	-	-	9
70	-	-	-	1	3	1	-	-	-	-	-	-	-	5
73	-	-	-	1	1	-	1	-	-	-	-	-	1	4
76	-	-	-	-	1	-	-	-	-	-	-	-	-	1
79	-	-	-	-	-	1	-	-	-	-	-	-	-	1
82	-	-	-	-	-	-	-	-	-	-	-	-	-	-
85	-	-	-	-	-	1	-	1	-	-	-	-	-	2
88	-	-	-	-	-	-	1	1	-	-	-	-	-	2
91	-	-	-	-	-	1	-	-	-	-	-	-	-	1
94	-	-	-	-	1	-	-	-	-	-	-	-	-	1
97	-	-	-	-	-	-	2	-	-	-	-	-	-	2
---	-	-	-	-	-	-	-	-	-	-	-	-	-	-
124	-	-	-	-	-	-	-	-	-	-	-	-	1	1
No. of Comm. Samples = 3														
Total	16	17	14	23	18	6	4	5	1	-	-	-	2	106

Year: 1972		Country: Canada (M)		Species: Cod										
Quarter: 4th		Gear: Otter trawl		Division: 4T										
Structures used in aging: Otoliths			Reported by: Halliday & Fitzgerald											
Length	Age													Total
	3	4	5	6	7	8	9	10	11	12	13	14	15	
34	3	-	-	-	-	-	-	-	-	-	-	-	-	3
37	3	1	-	-	-	-	-	-	-	-	-	-	-	4
40	1	5	-	-	-	-	-	-	-	-	-	-	-	6
43	-	6	-	-	-	-	-	-	-	-	-	-	-	6
46	-	3	2	-	-	-	-	-	-	-	-	-	-	5
49	-	1	5	-	-	-	-	-	-	-	-	-	-	6
52	-	-	2	3	1	-	-	-	-	-	-	-	-	6
55	-	-	2	3	1	-	-	-	-	-	-	-	-	6
58	-	-	-	3	2	-	1	-	-	-	-	-	-	6
61	-	-	-	3	1	1	-	-	-	-	-	-	-	5
64	-	-	-	2	1	1	-	-	-	-	-	-	-	4
67	-	-	-	-	2	1	-	1	-	1	-	-	-	5
70	-	-	-	-	-	-	-	-	-	-	-	-	-	-
73	-	-	-	-	1	-	-	-	-	-	-	-	-	1
76	-	-	-	-	-	1	-	-	-	-	-	-	-	1
---	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100	-	-	-	-	-	-	-	-	-	-	-	-	1	1
No. of Comm. Samples = 2														
Total	7	16	11	14	9	4	1	1	-	1	-	-	1	65

Year: 1972		Country: Canada (M)		Species: Cod							
Quarter: 3rd		Gear: Danish seine		Division: 4T							
Structures used in aging: Otoliths			Reported by: Halliday & Fitzgerald								
Length	Age										Total
	3	4	5	6	7	8	9	10	11	12	
40	1	13	1	-	-	-	-	-	-	-	15
43	-	9	3	-	-	-	-	-	-	-	12
46	-	3	7	2	-	-	-	-	-	-	12
49	-	-	6	4	1	-	-	-	-	-	11
52	-	1	6	3	2	-	-	-	-	-	12
55	-	-	-	3	7	1	-	-	-	-	11
58	-	-	-	8	4	1	-	-	-	-	13
61	-	-	-	1	6	5	-	-	-	-	12
64	-	-	-	1	4	3	1	-	1	-	10
67	-	-	-	-	5	3	-	-	-	-	8
70	-	-	-	-	2	3	2	-	-	-	7
73	-	-	-	-	-	-	-	-	-	-	-
76	-	-	-	-	-	2	1	-	-	-	3
79	-	-	-	-	-	-	-	-	1	-	1
82	-	-	-	-	-	1	-	-	-	-	1
85	-	-	-	-	-	-	-	-	-	1	1
88	-	-	-	-	-	-	1	-	-	-	1
91	-	-	-	-	-	-	-	1	-	-	1
---	-	-	-	-	-	-	-	-	-	-	-
103	-	-	-	-	-	-	-	1	-	-	1
No. of Comm. Samples = 5											
Total	1	26	23	22	31	19	5	2	2	1	132

Year: 1972		Country: Canada (M)		Species: Cod							
Quarter: 4th		Gear: Danish seine		Division: 4T							
Structures used in aging: Otoliths			Reported by: Halliday & Fitzgerald								
Length	Age										Total
	3	4	5	6	7	8	9	10	11	12	
40	-	3	-	-	-	-	-	-	-	-	3
43	1	1	1	-	-	-	-	-	-	-	3
46	-	2	-	1	-	-	-	-	-	-	3
49	-	-	1	1	-	-	-	-	-	-	2
52	-	-	1	1	1	-	-	-	-	-	3
55	-	-	-	1	2	-	-	-	-	-	3
58	-	-	-	2	-	1	-	-	-	-	3
61	-	-	-	1	1	-	-	-	-	-	2
64	-	-	-	3	-	-	-	-	-	-	3
67	-	-	-	-	-	1	-	-	-	-	1
70	-	-	-	-	-	-	-	-	-	1	1
73	-	-	-	-	-	1	-	-	-	-	1
76	-	-	-	-	-	1	-	-	-	-	1
79	-	-	-	-	-	1	-	-	-	-	1
82	-	-	-	-	-	-	-	-	-	-	-
85	-	-	-	-	-	1	-	-	-	-	1
No. of Comm. Samples = 1											
Total	1	6	3	10	4	6	-	-	-	1	31

Year: 1972		Country: Canada (M)		Species: Cod										
Quarter: 3rd		Gear: Gillnet		Division: 4T										
Structures used in aging: Otoliths			Reported by: Halliday & Fitzgerald											
Length	Age												Total	
	4	5	6	7	8	9	10	11	12	13	14	15		16
43	1	1	-	-	-	-	-	-	-	-	-	-	-	2
46	1	-	-	-	-	-	-	-	-	-	-	-	-	1
49	-	1	1	-	-	-	-	-	-	-	-	-	-	2
52	-	2	-	1	-	-	-	-	-	-	-	-	-	3
55	-	1	-	-	-	-	-	-	-	-	-	-	-	1
58	-	-	3	-	1	-	-	-	-	-	-	-	-	4
61	-	-	-	2	-	1	-	-	-	-	-	-	-	3
64	-	-	1	5	-	-	-	-	-	-	-	-	-	6
67	-	-	-	1	-	1	-	1	-	-	-	-	-	3
70	-	-	-	2	2	1	1	-	-	-	-	-	-	6
73	-	-	-	-	3	-	1	-	-	-	-	-	-	4
76	-	-	-	-	3	1	1	-	-	-	-	-	-	5
79	-	-	-	-	2	1	1	-	-	1	-	-	-	5
82	-	-	-	-	2	2	-	1	-	-	-	-	-	5
85	-	-	-	-	1	-	2	1	-	-	-	1	-	5
88	-	-	-	-	3	2	-	-	-	-	-	-	-	5
91	-	-	-	-	-	3	-	2	-	-	-	-	-	5
94	-	-	-	-	1	2	-	1	-	-	-	-	-	4
97	-	-	-	-	-	-	2	1	-	-	-	-	-	3
100	-	-	-	-	-	-	1	1	2	-	-	-	-	4
103	-	-	-	-	-	-	1	1	-	-	-	-	-	2
106	-	-	-	-	-	-	1	-	1	-	-	-	-	2
109	-	-	-	-	-	-	-	-	-	-	-	-	-	-
112	-	-	-	-	-	-	-	1	1	-	-	-	-	4
115	-	-	-	-	-	-	-	-	-	2	-	-	-	2
118	-	-	-	-	-	-	-	-	-	-	-	1	-	1
121	-	-	-	-	-	-	-	-	-	-	-	-	-	-
124	-	-	-	-	-	-	-	-	-	-	-	-	1	1
127	-	-	-	-	-	-	-	-	-	-	-	-	1	1
---	-	-	-	-	-	-	-	-	-	-	-	-	-	-
136	-	-	-	-	-	-	-	-	-	-	-	-	1	1
No. of Comm. Samples = 2														
Total	2	5	5	11	18	14	11	10	4	3	2	2	3	90

Year: 1972		Country: Canada (M)		Species: Cod												
Quarter: 1st		Gear: Otter trawl		Division: 4Vn												
Structures used in aging: Otoliths			Reported by: Halliday & Fitzgerald													
Length	Age															Total
	3	4	5	6	7	8	9	10	11	12	13	14	15			
31	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
34	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
37	1	3	-	-	-	-	-	-	-	-	-	-	-	-	-	4
40	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	3
43	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	6
46	-	5	-	1	-	-	-	-	-	-	-	-	-	-	-	6
49	-	-	4	-	1	-	-	-	-	-	-	-	-	-	-	5
52	-	-	2	3	-	1	-	-	-	-	-	-	-	-	-	6
55	-	-	3	-	2	-	-	-	-	-	-	-	-	-	-	5
58	-	-	-	2	1	1	1	1	-	-	-	-	-	-	-	6
61	-	-	-	3	2	1	-	-	-	-	-	-	-	-	-	6
64	-	-	-	1	2	2	-	-	-	-	-	-	-	-	-	5
67	-	-	-	1	1	1	1	-	-	-	-	-	-	-	-	4
70	-	-	-	-	2	-	2	1	1	-	-	-	-	-	-	6
73	-	-	-	-	1	1	1	2	-	-	-	-	-	-	-	5
76	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	4
79	-	-	-	-	-	-	5	-	1	-	-	-	-	-	-	6
82	-	-	-	-	1	3	2	-	-	-	-	-	-	-	-	6
85	-	-	-	-	-	2	1	-	-	-	-	-	-	-	-	3
88	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	2
91	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
94	-	-	-	-	-	-	-	2	1	-	-	-	-	-	-	3
97	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
103	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1
No. of Comm. Samples = 2																
Total	3	17	9	11	13	19	12	6	2	1	-	1	1	-	-	95

Year: 1972		Country: Canada (M)		Species: Cod			
Quarter: 3rd		Gear: Otter trawl		Division: 4Vn			
Structures used in aging: Otoliths			Reported by: Halliday & Fitzgerald				
Length	Age						Total
	4	5	6	7	8	9	
37	3	-	-	-	-	-	3
40	3	-	-	-	-	-	3
43	3	-	-	-	-	-	3
46	2	-	-	-	-	-	2
49	3	-	-	-	-	-	3
52	3	-	-	-	-	-	3
55	-	2	1	-	-	-	3
58	-	-	2	1	-	-	3
61	-	-	1	2	-	-	3
64	-	-	2	-	1	-	3
67	-	-	-	2	1	-	3
70	-	-	-	1	-	1	2
73	-	-	-	-	-	-	-
76	-	-	-	1	-	-	1
No. of Comm. Samples = 1							
Total	17	2	6	7	2	1	35

Year: 1972		Country: Canada (M)		Species: Cod												
Quarter: 3rd		Gear: Longline		Division: 4Vn												
Structures used in aging: Otoliths			Reported by: Halliday & Fitzgerald													
Length	Age															Total
	4	5	6	7	8	9	10	11	12	13	14	15	16			
37	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4
40	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
43	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
46	2	1	1	-	-	-	-	-	-	-	-	-	-	-	-	4
49	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-	3
52	-	-	2	1	-	-	-	-	-	-	-	-	-	-	-	3
55	-	-	1	1	1	-	-	-	-	-	-	-	-	-	-	3
58	-	-	1	1	1	-	-	-	-	-	-	-	-	-	-	3
61	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	4
64	-	-	1	1	-	-	-	1	-	-	-	-	-	-	-	3
67	-	-	2	1	1	-	-	-	-	-	-	-	-	-	-	4
70	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	2
73	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	2
76	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1
88	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1
91	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1
94	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
97	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1
100	-	-	-	-	-	1	2	-	1	-	-	-	-	-	-	4
103	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	2
106	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	2
118	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1
121	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
124	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1
No. of Comm. Samples = 1																
Total	13	1	12	8	5	1	6	4	1	1	-	1	1	-	-	54

Year: 1972		Country: Canada (M)		Species: Cod						
Quarter: 3rd		Gear: Longline		Division: 4X						
Structures used in aging: Otoliths			Reported by: Halliday & Fitzgerald							
Length	Age								Total	
	3	4	5	6	7	8	9	10		--	16
43	2	-	-	-	-	-	-	-	-	2
46	3	1	-	-	-	-	-	-	-	4
49	1	1	-	-	-	-	-	-	-	2
52	2	-	-	-	-	-	-	-	-	2
55	-	2	1	-	-	-	-	-	-	3
58	-	-	1	1	-	-	-	-	-	2
61	-	1	2	-	-	-	-	-	-	3
64	-	1	2	-	-	-	-	-	-	3
67	-	-	1	-	-	-	1	-	-	2
70	-	-	1	2	-	-	-	-	-	3
73	-	-	1	1	-	1	-	-	-	3
76	-	-	-	2	-	-	-	1	-	3
79	-	-	-	-	-	-	-	-	-	-
82	-	-	-	2	1	-	-	-	-	3
85	-	-	-	1	1	1	-	-	-	3
88	-	-	-	-	-	-	-	-	-	-
91	-	-	-	1	-	-	1	-	-	2
94	-	-	-	-	-	-	-	-	-	-
97	-	-	-	1	-	-	-	-	-	1
100	-	-	-	-	-	-	1	-	-	1
---	-	-	-	-	-	-	-	-	-	-
121	-	-	-	-	-	-	-	-	1	1
---	-	-	-	-	-	-	-	-	-	-
130	-	-	-	-	-	-	-	-	1	1
No. of Comm. Samples = 1										
Total	8	6	9	11	2	2	3	1	2	44

Year: 1972		Country: Canada (M)		Species: Cod											
Quarter: 4th		Gear: Longline		Division: 4X											
Structures used in aging: Otoliths			Reported by: Halliday & Fitzgerald												
Length	Age														Total
	2	3	4	5	6	7	8	9	10	11	12	13	14		
37	2	-	-	-	-	-	-	-	-	-	-	-	-	-	2
40	3	-	-	-	-	-	-	-	-	-	-	-	-	-	3
43	2	1	-	-	-	-	-	-	-	-	-	-	-	-	3
46	2	1	-	-	-	-	-	-	-	-	-	-	-	-	3
49	-	3	-	-	-	-	-	-	-	-	-	-	-	-	3
52	-	2	-	-	-	-	-	-	-	-	-	-	-	-	2
55	-	3	-	-	-	-	-	-	-	-	-	-	-	-	3
58	-	-	2	-	-	-	-	-	-	-	-	-	-	-	2
61	-	-	3	-	-	-	-	-	-	-	-	-	-	-	3
64	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1
67	-	-	3	-	-	-	-	-	-	-	-	-	-	-	3
70	-	-	1	1	1	1	-	-	-	-	-	-	-	-	4
73	-	-	1	-	1	-	-	-	-	-	-	-	-	-	2
76	-	-	-	1	1	-	-	-	-	-	-	-	-	-	2
79	-	-	-	1	2	-	-	-	-	-	-	-	-	-	3
82	-	-	-	-	3	-	-	-	-	-	-	-	-	-	3
85	-	-	-	-	2	-	-	-	-	-	-	-	-	-	2
88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
91	-	-	-	-	2	-	-	-	-	-	-	-	-	-	2
94	-	-	-	-	1	-	-	1	-	-	-	-	-	-	2
97	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1
100	-	-	-	-	-	-	2	-	-	-	-	-	-	-	2
103	-	-	-	-	-	-	2	-	-	-	-	-	-	-	2
106	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1
109	-	-	-	-	-	-	-	1	2	-	-	-	-	-	3
112	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
115	-	-	-	-	-	-	-	1	-	1	-	-	-	-	2
---	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
124	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1
No. of Comm. Samples = 1															
Total	9	10	10	4	13	1	5	3	3	1	-	-	1	-	60

Year: 1972		Country: Canada (M)		Species: Cod									
Quarter: 1st		Gear: Otter trawl		Division: 5Ze									
Structures used in aging: Otoliths			Reported by: Halliday & Fitzgerald										
Length	Age												Total
	2	3	4	5	6	7	8	9	10	11	12	13	
34	2	1	-	-	-	-	-	-	-	-	-	-	3
37	1	2	-	-	-	-	-	-	-	-	-	-	3
40	-	3	-	-	-	-	-	-	-	-	-	-	3
43	-	3	-	-	-	-	-	-	-	-	-	-	3
46	-	1	1	-	-	-	-	-	-	-	-	-	2
49	-	1	2	-	-	-	-	-	-	-	-	-	3
52	-	2	-	1	-	-	-	-	-	-	-	-	3
55	-	-	2	1	-	-	-	-	-	-	-	-	3
58	-	-	1	-	-	-	-	-	-	-	-	-	1
61	-	-	1	2	-	-	-	-	-	-	-	-	3
64	-	-	-	2	1	-	-	-	-	-	-	-	3
67	-	-	-	1	1	-	-	-	-	-	-	-	2
70	-	-	-	-	2	1	-	-	-	-	-	-	3
73	-	-	-	1	1	1	-	-	-	-	-	-	3
76	-	-	-	2	-	-	-	-	-	-	-	-	3
79	-	-	-	-	1	-	-	2	-	-	-	-	3
82	-	-	-	-	-	-	-	1	-	-	-	-	1
85	-	-	-	-	-	1	2	-	-	-	-	-	3
88	-	-	-	-	-	1	1	-	-	-	-	-	2
91	-	-	-	-	-	-	1	1	-	-	-	-	2
94	-	-	-	-	-	1	1	-	-	-	-	-	2
97	-	-	-	-	1	-	-	-	-	-	-	-	1
100	-	-	-	-	-	-	2	-	-	-	-	-	2
103	-	-	-	-	-	-	-	2	1	-	-	-	3
106	-	-	-	-	-	-	-	1	1	-	-	-	2
109	-	-	-	-	-	-	-	-	-	-	-	-	-
112	-	-	-	-	-	-	-	-	-	-	1	-	1
115	-	-	-	-	-	-	-	-	-	1	-	-	1
No. of Comm. Samples = 1													
Total	3	13	7	10	7	5	7	8	2	1	-	1	64

Year: 1972		Country: Canada (M)		Species: Cod										
Quarter: 3rd		Gear: Longline		Division: 5Ze										
Structures used in aging: Otoliths			Reported by: Halliday & Fitzgerald											
Length	Age													Total
	2	3	4	5	6	7	8	9	10	11	12	13	14	
34	1	-	-	-	-	-	-	-	-	-	-	-	-	1
37	2	-	-	-	-	-	-	-	-	-	-	-	-	2
40	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	-	-	-	-	-	-	-	-	-	-	-	-	-	-
46	-	1	-	-	-	-	-	-	-	-	-	-	-	1
49	-	-	-	-	-	-	-	-	-	-	-	-	-	-
52	-	2	-	-	-	-	-	-	-	-	-	-	-	2
55	-	4	1	-	-	-	-	-	-	-	-	-	-	5
58	-	4	2	-	-	-	-	-	-	-	-	-	-	6
61	-	-	4	1	-	-	-	-	-	-	-	-	-	5
64	-	-	3	-	-	-	-	-	-	-	-	-	-	3
67	-	-	4	1	-	-	-	-	-	-	-	-	-	5
70	-	-	1	1	-	-	-	-	-	-	-	-	-	2
73	-	-	1	5	-	-	-	-	-	-	-	-	-	6
76	-	-	1	1	1	1	-	-	-	-	-	-	-	3
79	-	-	-	3	-	2	-	-	-	-	-	-	-	5
82	-	-	-	1	4	-	-	-	-	-	-	-	-	5
85	-	-	-	-	4	1	-	-	-	-	-	-	-	5
88	-	-	-	-	3	-	-	-	-	-	-	-	-	3
91	-	-	-	-	2	1	2	-	-	-	-	-	-	5
94	-	-	-	-	4	1	-	-	1	-	-	-	-	6
97	-	-	-	-	1	3	-	-	-	-	-	-	-	4
100	-	-	-	-	1	1	1	-	-	-	-	-	-	3
103	-	-	-	-	-	-	1	-	1	-	-	-	-	2
106	-	-	-	-	-	-	2	-	-	-	-	-	-	2
109	-	-	-	-	-	-	-	2	1	-	-	-	-	3
112	-	-	-	-	-	-	-	-	2	-	-	-	-	2
115	-	-	-	-	-	-	-	-	1	-	-	-	-	1
118	-	-	-	-	-	-	-	-	4	1	-	-	-	5
121	-	-	-	-	-	-	-	-	-	1	1	1	-	3
124	-	-	-	-	-	-	-	-	-	-	1	-	-	1
127	-	-	-	-	-	-	-	-	-	-	-	1	-	1
130	-	-	-	-	-	-	-	-	-	-	-	1	-	1
No. of Comm. Samples = 2														
Total	3	11	16	13	20	10	6	3	9	1	1	4	1	98

Year: 1972		Country: Canada (N)				Species: Cod						
Quarter: 3rd		Gear: Trap				Division: 2J						
Structures used in aging: Otoliths				Reported by: R. Wells								
Length	Age											Total
	3	4	5	6	7	8	9	10	11	12	13	
31	5	13	-	-	-	-	-	-	-	-	-	18
34	1	19	5	-	-	-	-	-	-	-	-	25
37	-	14	11	-	-	-	-	-	-	-	-	25
40	-	8	16	-	-	-	-	-	-	-	-	24
43	-	3	20	3	-	-	-	-	-	-	-	26
46	-	-	17	7	1	-	-	-	-	-	-	25
49	-	-	6	17	2	-	-	-	-	-	-	25
52	-	-	5	17	3	-	-	-	-	-	-	25
55	-	-	1	11	12	1	-	-	-	-	-	25
58	-	-	-	9	12	-	2	2	1	-	-	26
61	-	-	-	4	8	6	3	-	-	-	-	21
64	-	-	-	1	3	6	2	2	-	-	-	14
67	-	-	-	-	-	3	1	-	2	-	-	6
70	-	-	-	-	-	-	2	1	3	-	2	8
73	-	-	-	-	1	-	-	-	-	-	-	1
76	-	-	-	-	-	-	-	-	-	-	-	1
79	-	-	-	-	-	-	1	-	-	-	-	1
82	-	-	-	-	-	-	-	-	-	-	1	1
85	-	-	-	-	-	-	-	-	-	1	-	1
88	-	-	-	-	-	-	-	1	-	-	-	1
No. of Comm. Samples - ?												
Total	6	57	81	69	42	16	11	6	6	1	3	298

Year: 1972		Country: Canada (N)				Species: Cod											
Quarter: 3rd		Gear: Gillnet				Division: 2J											
Structures used in aging: Otoliths				Reported by: R. Wells													
Length	Age																Total
	4	5	6	7	8	9	10	11	12	13	14	15	16	16+			
34	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	
37	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	
40	2	5	-	-	-	-	-	-	-	-	-	-	-	-	-	7	
43	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	6	
46	-	4	3	-	-	-	-	-	-	-	-	-	-	-	-	7	
49	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	4	
52	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	2	
55	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	2	
58	-	-	1	4	-	-	-	-	-	-	-	-	-	-	-	5	
61	-	-	1	4	1	-	-	-	-	-	-	-	-	-	-	6	
64	-	-	-	4	4	1	4	1	-	1	-	-	-	-	-	15	
67	-	-	1	3	8	3	4	2	-	-	-	-	-	-	-	21	
70	-	-	-	2	5	8	4	1	3	2	1	-	-	-	-	26	
73	-	-	-	-	4	9	8	3	1	-	-	-	-	-	-	25	
76	-	-	-	1	4	5	6	7	1	1	-	-	-	-	-	25	
79	-	-	-	-	4	5	4	3	4	5	-	-	-	-	-	25	
82	-	-	-	1	1	2	9	5	3	2	2	-	-	-	-	25	
85	-	-	-	-	3	-	5	7	6	3	-	1	-	-	-	25	
88	-	-	-	-	2	3	2	4	6	4	3	-	-	-	1	25	
91	-	-	-	-	-	3	4	3	7	4	2	-	-	1	2	26	
94	-	-	-	-	-	-	1	3	7	2	2	1	1	3	-	20	
97	-	-	-	-	-	-	1	4	5	1	3	1	2	-	-	17	
100	-	-	-	-	-	-	-	2	1	1	-	1	1	2	-	8	
103	-	-	-	-	-	-	-	1	1	2	1	-	-	-	-	5	
106	-	-	-	-	-	-	-	1	2	3	1	-	-	-	1	8	
109	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	2	
112	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	2	
---	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
121	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	
124	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	
No. of Comm. Samples - ?																	
Total	7	17	10	21	36	39	52	47	47	31	15	6	5	14		347	

Year: 1972		Country: Canada (N)				Species: Cod			
Quarter: 3rd		Gear: Trap				Division: 3K			
Structures used in aging: Otoliths				Reported by: R. Wells					
Length	Age								Total
	3	4	5	6	7	8	9		
34	1	5	-	-	-	-	-	-	6
37	-	21	8	1	-	-	-	-	30
40	-	17	31	2	-	-	-	-	50
43	-	8	33	3	1	-	-	-	45
46	-	1	17	9	-	-	-	-	27
49	-	-	6	21	7	-	-	-	34
52	-	-	1	14	10	1	-	-	26
55	-	-	-	17	6	2	-	-	25
58	-	-	-	10	10	6	-	-	26
61	-	-	-	6	12	4	-	-	22
64	-	-	-	2	12	5	-	-	19
67	-	-	-	2	9	6	2	-	19
70	-	-	-	-	6	3	2	-	11
73	-	-	-	-	1	3	1	-	5
76	-	-	-	-	1	1	2	-	4
79	-	-	-	-	-	-	-	-	-
82	-	-	-	-	-	1	-	-	1
No. of Comm. Samples - ?									
Total	1	52	96	87	75	32	7		350

Year: 1972		Country: Canada (N)		Species: Cod											
Quarter: 2nd		Gear: Otter trawl		Division: 3L											
Structures used in aging: Otoliths			Reported by: Pinhorn & Badcock												
Length	Age														Total
	4	5	6	7	8	9	10	11	12	13	14	15	15+		
37	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1
40	11	1	-	-	-	-	-	-	-	-	-	-	-	-	12
43	12	3	-	-	-	-	-	-	-	-	-	-	-	-	15
46	8	6	-	-	-	-	-	-	-	-	-	-	-	-	14
49	8	4	3	-	-	-	-	-	-	-	-	-	-	-	15
52	2	6	3	1	3	-	-	-	-	-	-	-	-	-	15
55	-	7	5	1	2	-	-	-	-	-	-	-	-	-	15
58	-	1	11	3	-	-	-	-	-	-	-	-	-	-	15
61	-	-	5	5	2	1	-	-	-	-	-	-	-	-	13
64	-	4	5	10	5	-	-	-	-	-	-	-	-	-	24
67	-	-	5	8	4	1	-	-	-	-	-	-	-	-	18
70	-	-	2	5	4	4	-	-	2	1	-	-	-	-	18
73	-	-	1	2	6	1	-	-	-	-	-	-	-	-	10
76	-	-	-	4	2	2	1	-	-	-	-	-	-	-	9
79	-	-	-	-	4	-	-	1	-	-	-	-	-	-	5
82	-	-	-	-	1	2	-	1	-	1	-	-	-	-	5
85	-	-	-	-	2	2	1	-	-	-	-	-	-	-	5
88	-	-	-	-	1	-	1	1	-	-	-	-	-	-	3
91	-	-	-	-	-	1	-	-	-	1	-	-	-	-	2
94	-	-	-	-	-	-	1	1	-	-	-	-	-	-	3
97	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1
100	-	-	-	-	-	-	2	-	-	-	-	1	-	-	3
103	-	-	-	-	-	-	-	1	2	-	-	-	-	-	3
106	-	-	-	-	-	-	1	1	-	-	1	-	-	-	3
109	-	-	-	-	-	-	-	-	-	-	2	-	-	-	2
112	-	-	-	-	-	-	2	-	-	-	-	-	1	-	3
115	-	-	-	-	-	-	-	-	-	-	-	1	1	-	2
118	-	-	-	-	-	-	-	-	-	2	1	2	1	-	6
121	-	-	-	-	-	-	-	-	-	2	-	1	-	-	3
>122	-	-	-	-	-	-	-	-	-	-	1	2	6	-	9
No. of Comm. Samples - ?															
Total	42	32	40	39	36	14	9	7	4	8	5	7	9		252

Year: 1972		Country: Canada (N)		Species: Cod										
Quarter: 3rd		Gear: Handline		Division: 3L										
Structures used in aging: Otoliths			Reported by: Pinhorn & Badcock											
Length	Age												Total	
	3	4	5	6	7	8	9	10	11	12	13	13+		
31	4	1	-	-	-	-	-	-	-	-	-	-	-	5
34	12	3	-	-	-	-	-	-	-	-	-	-	-	15
37	6	9	-	-	-	-	-	-	-	-	-	-	-	15
40	2	11	2	-	-	-	-	-	-	-	-	-	-	15
43	-	10	4	-	-	-	-	-	-	-	-	-	-	14
46	-	4	11	1	-	-	-	-	-	-	-	-	-	16
49	-	1	12	2	-	-	-	-	-	-	-	-	-	15
52	-	2	6	4	3	-	-	-	-	-	-	-	-	15
55	-	-	1	15	-	-	-	-	-	-	-	-	-	16
58	-	-	-	11	2	1	-	-	-	-	-	-	-	14
61	-	-	-	3	8	4	-	-	-	-	-	-	-	15
64	-	-	-	4	12	11	2	1	-	-	-	-	-	30
67	-	-	-	1	10	13	3	2	-	1	-	-	-	30
70	-	-	-	-	8	13	6	3	-	-	-	-	-	30
73	-	-	-	-	-	12	11	3	2	-	2	-	-	30
76	-	-	-	-	2	5	13	4	2	2	-	2	-	30
79	-	-	-	-	1	9	13	5	-	1	-	1	-	30
82	-	-	-	-	-	7	9	6	3	-	2	3	-	30
85	-	-	-	-	-	1	4	9	8	2	2	4	-	30
No. of Comm. Samples - ?														
Total	24	41	36	41	46	76	61	33	15	6	6	10		395

Year: 1972		Country: Canada (N)		Species: Cod												
Quarter: 1st		Gear: Longline		Division: 3Pn												
Structures used in aging: Otoliths			Reported by: R. Wells													
Length	Age															Total
	5	6	7	8	9	10	11	12	13	14	15	16	17	17+		
43	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	4
46	2	12	5	-	-	-	-	-	-	-	-	-	-	-	-	19
49	1	11	9	2	-	-	-	-	-	-	-	-	-	-	-	23
52	-	8	11	5	1	-	-	-	-	-	-	-	-	-	-	25
55	1	6	9	6	5	-	-	-	-	-	-	-	-	-	-	27
58	-	1	9	9	3	1	-	1	-	-	-	-	-	-	-	24
61	-	-	6	11	5	2	1	1	-	-	-	-	-	-	-	26
64	-	-	4	8	5	3	3	2	-	-	-	-	-	-	-	25
67	-	1	3	4	4	5	-	4	-	3	1	-	-	-	-	25
70	-	-	1	5	6	2	5	2	-	1	2	1	-	-	-	25
73	-	-	-	6	2	2	6	1	1	7	-	-	-	-	-	25
76	-	-	-	6	4	2	2	2	1	4	1	1	-	-	-	23
79	-	-	-	-	4	4	4	3	-	3	2	-	1	-	-	21
82	-	-	1	1	1	2	2	2	2	1	-	-	-	-	1	13
85	-	-	-	-	2	-	-	-	1	1	2	-	-	-	2	8
88	-	-	-	-	-	1	1	1	1	1	1	-	-	-	1	7
91	-	-	-	-	-	1	-	-	2	-	-	-	-	-	-	3
94	-	-	-	-	-	-	2	-	-	-	2	-	1	-	-	5
97	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1
100	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	2
No. of Comm. Samples - ?																
Total	4	41	60	63	42	25	26	19	8	21	14	2	2	4		331

Year: 1972		Country: Canada (N)		Species: Cod												
Quarter: 3rd		Gear: Longline		Division: 3Ps												
Structures used in aging: Otoliths			Reported by: Pinhorn & Ennis													
Length	Age															Total
	3	4	5	6	7	8	9	10	11	12	13	14	15	15+		
31	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
34	1	3	-	-	-	-	-	-	-	-	-	-	-	-	-	4
37	3	9	-	-	-	-	-	-	-	-	-	-	-	-	-	12
40	3	12	-	-	-	-	-	-	-	-	-	-	-	-	-	15
43	1	13	-	1	-	-	-	-	-	-	-	-	-	-	-	15
46	-	14	1	-	-	-	-	-	-	-	-	-	-	-	-	15
49	-	3	12	-	-	-	-	-	-	-	-	-	-	-	-	15
52	-	1	11	1	1	-	-	-	-	-	-	-	-	-	-	14
55	-	-	11	3	-	-	-	-	-	-	-	-	-	-	-	14
58	-	-	2	12	1	-	-	-	-	-	-	-	-	-	-	15
61	-	-	1	10	5	-	-	-	-	-	-	-	-	-	-	16
64	-	-	1	5	20	3	1	-	-	-	-	-	-	-	-	30
67	-	-	-	4	15	8	1	1	-	-	1	-	-	-	-	30
70	-	-	-	1	12	12	2	2	-	1	-	-	-	-	-	30
73	-	-	-	2	6	16	4	-	2	-	-	-	-	-	-	30
76	-	-	-	-	2	15	7	6	-	-	-	-	-	-	-	30
79	-	-	-	-	1	5	9	8	3	2	2	-	-	-	-	30
82	-	-	-	1	-	5	8	8	6	2	-	-	-	-	-	30
85	-	-	-	-	1	1	11	5	6	6	-	-	-	-	-	30
88	-	-	-	-	-	6	1	2	1	-	2	-	-	-	-	12
91	-	-	-	-	-	1	2	8	-	1	2	-	-	-	-	14
94	-	-	-	-	1	-	-	3	3	2	2	1	-	-	-	12
97	-	-	-	-	-	2	1	3	-	-	-	-	-	-	1	7
100	-	-	-	-	-	-	-	1	-	-	-	-	1	1	-	3
103	-	-	-	-	-	-	-	1	2	-	-	-	-	3	-	6
106	-	-	-	-	-	-	-	-	1	-	1	-	-	3	-	5
109	-	-	-	-	-	-	-	-	-	1	-	1	1	1	-	3
112	-	-	-	-	-	-	-	-	1	-	-	2	2	2	-	5
115	-	-	-	-	-	-	-	-	1	-	-	-	2	2	-	3
118	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	2
121	-	-	-	-	-	-	-	-	-	-	-	-	2	2	-	2
122	-	-	-	-	-	-	-	-	-	-	-	1	7	-	-	8
No. of Comm. Samples - 5																
Total	9	55	39	40	65	65	52	38	36	17	7	8	5	22		458

Year: 1972		Country: Canada (N)		Species: Cod			
Quarter: 2nd		Gear: Trap		Division: 4R			
Structures used in aging: Otoliths				Reported by: R. Wells			
Length	Age						Total
	4	5	6	7	8	9	
31	1	-	-	-	-	-	1
34	9	1	-	-	-	-	10
37	8	3	-	-	-	-	11
40	5	5	-	-	-	-	10
43	-	8	2	-	-	-	10
46	-	6	4	-	-	-	10
49	-	2	8	1	-	-	11
52	-	1	6	3	-	-	10
55	-	1	5	4	-	-	10
58	-	-	6	3	-	-	9
61	-	-	1	4	2	-	7
64	-	1	1	-	2	-	4
67	-	-	-	-	-	1	1
No. of Comm. Samples - ?							
Total	23	28	33	15	4	1	104

Year: 1972		Country: Canada (N)		Species: Cod												
Quarter: 2nd		Gear: Gillnet		Division: 4R												
Structures used in aging: Otoliths				Reported by: R. Wells												
Length	Age															Total
	5	6	7	8	9	10	11	12	13	14	15	16	17	17+		
52	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1
55	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	2
58	-	2	3	-	1	1	-	-	-	-	-	-	-	-	-	7
61	1	2	3	7	3	-	-	-	-	-	-	-	-	-	-	16
64	-	3	3	13	4	1	1	-	-	-	-	-	-	-	-	25
67	-	-	1	10	11	3	-	-	-	-	-	-	-	-	-	25
70	-	1	3	7	9	2	1	1	-	1	1	-	-	-	-	26
73	-	1	2	3	12	1	4	3	1	-	1	-	-	-	-	28
76	-	-	2	6	6	2	5	2	1	-	-	-	-	-	1	25
79	-	-	1	6	10	5	4	-	1	-	-	-	-	-	-	27
82	-	-	-	3	9	4	2	1	1	1	-	3	1	-	-	25
85	-	-	1	4	3	8	2	2	-	1	2	1	1	-	-	25
88	-	-	-	4	7	8	2	1	-	1	-	2	-	-	-	25
91	-	-	-	-	10	4	5	2	-	2	2	-	-	-	-	25
94	-	-	-	-	3	2	2	3	-	1	4	-	1	1	-	17
97	-	-	-	1	3	7	5	3	-	-	1	-	1	4	-	25
100	-	-	-	-	2	-	3	1	1	2	-	-	-	-	-	9
103	-	-	-	-	-	3	2	4	1	-	2	1	-	-	-	13
106	-	-	-	-	-	-	1	1	1	-	-	-	-	-	-	3
109	-	-	-	-	-	1	-	1	1	1	-	1	-	2	-	7
112	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	2
115	-	-	-	-	-	-	-	-	-	1	-	-	-	-	2	3
118	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	2
121	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
124	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1
---	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
133	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1
No. of Comm. Samples - ?																
Total	1	11	20	64	93	52	39	26	9	11	13	9	5	12		365

Year: 1972		Country: Denmark (G)				Species: Cod	
Quarter: 2nd		Gear: Pound net				Division: 1B	
Structures used in aging: Otoliths				Reported by:			
Length	Age					Total	
	4	5	6	7	8		
43	4	1	3	-	-	8	
46	6	5	4	-	-	15	
49	7	18	4	-	-	29	
52	4	18	6	1	-	29	
55	1	20	9	1	-	31	
58	-	16	4	3	-	23	
61	-	7	12	1	-	20	
64	-	5	18	3	-	26	
67	-	-	5	1	-	6	
70	-	-	5	2	-	7	
73	-	-	-	2	-	2	
76	-	-	-	1	-	1	
79	-	-	-	-	-	-	
82	-	-	-	1	-	1	
85	-	-	-	-	1	1	
No. of Comm. Samples - ?							
Total	22	90	70	16	1	199	

Year: 1972		Country: Denmark (G)				Species: Cod			
Quarter: 3rd		Gear: Pound net				Division: 1B			
Structures used in aging: Otoliths				Reported by:					
Length	Age								Total
	4	5	6	7	8	9	10	11	
40	-	1	-	-	-	-	-	-	1
43	3	-	-	-	-	-	-	-	3
46	4	-	-	-	-	-	-	-	4
49	5	4	-	-	-	-	-	-	9
52	8	8	3	-	-	-	-	-	19
55	3	15	5	-	-	-	-	-	23
58	5	28	1	-	-	-	-	-	34
61	1	17	9	-	-	1	-	-	28
64	-	14	11	-	-	-	-	-	25
67	-	6	11	1	-	-	-	-	18
70	-	5	4	1	-	-	-	-	10
73	-	3	9	2	-	-	-	-	14
76	-	-	1	1	1	-	-	-	3
79	-	-	2	2	-	1	-	-	5
82	-	-	-	-	-	1	-	-	1
85	-	-	-	-	-	-	-	-	-
88	-	-	-	-	-	1	-	1	2
No. of Comm. Samples - ?									
Total	29	101	56	7	1	4	-	1	199

Year: 1972		Country: Denmark (G)				Species: Cod								
Quarter: 3rd		Gear: Pound net & Handline				Division: 1B								
Structures used in aging: Otoliths				Reported by:										
Length	Age													Total
	4	5	6	7	8	9	10	11	12	13	14	15		
52	2	-	-	-	-	-	-	-	-	-	-	-	-	2
55	1	1	-	-	-	-	-	-	-	-	-	-	-	2
58	-	2	-	-	-	-	-	-	-	-	-	-	-	2
61	-	-	-	-	-	-	-	-	-	-	-	-	-	-
64	-	1	-	-	-	-	-	-	-	-	-	-	-	1
67	-	1	-	-	-	-	-	-	-	-	-	-	-	1
70	-	-	1	1	1	-	-	-	-	-	-	-	-	3
73	-	1	6	3	1	1	-	-	-	-	-	-	-	12
76	-	-	3	6	-	-	-	-	1	-	-	-	-	10
79	-	-	5	21	2	2	-	1	-	-	-	-	-	31
82	-	-	1	18	2	1	-	3	-	1	-	-	-	26
85	-	-	-	26	3	2	6	6	4	1	-	-	-	48
88	-	-	1	6	2	2	1	10	6	1	-	-	-	29
91	-	-	-	7	-	3	2	20	6	-	-	-	1	39
94	-	-	-	-	-	1	2	11	12	-	-	-	-	26
97	-	-	-	-	1	1	1	13	9	-	1	-	-	26
100	-	-	-	-	-	-	2	8	5	-	1	-	-	16
103	-	-	-	-	-	-	-	3	2	-	-	-	1	6
106	-	-	-	-	-	-	-	-	4	-	-	-	1	5
No. of Comm. Samples - ?														
Total	3	6	17	88	12	13	14	75	49	3	2	3		285

Year: 1972		Country: Denmark (G)		Species: Cod												
Quarter: 1st		Gear: Otter trawl		Division: 1C												
Structures used in aging: Otoliths				Reported by:												
Length	Age															Total
	4	5	6	7	8	9	10	11	12	13	14	15	15+			
40	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
43	14	2	-	-	-	-	-	-	-	-	-	-	-	-	16	
46	18	12	-	-	-	-	-	-	-	-	-	-	-	-	30	
49	18	21	1	-	-	-	-	-	-	-	-	-	-	-	40	
52	8	49	3	-	-	-	-	-	-	-	-	-	-	-	60	
55	-	50	8	1	-	-	-	-	-	-	-	-	-	-	59	
58	-	45	14	1	-	-	-	-	-	-	-	-	-	-	60	
61	-	26	32	1	-	1	-	-	-	-	-	-	-	-	60	
64	-	4	53	2	-	1	-	-	-	-	-	-	-	-	60	
67	-	-	54	1	-	1	-	-	-	-	-	-	-	-	56	
70	-	1	40	16	1	1	-	1	-	-	-	-	-	-	60	
73	-	-	19	22	2	1	-	-	-	-	-	-	-	-	44	
76	-	-	11	22	-	1	-	-	-	-	-	-	-	-	34	
79	-	-	-	24	1	2	-	-	-	-	-	-	-	-	27	
82	-	-	1	13	-	1	1	2	1	-	-	-	-	-	19	
85	-	-	-	8	1	2	-	4	-	-	-	1	-	-	16	
88	-	-	-	3	1	-	-	3	2	-	-	-	-	-	9	
91	-	-	-	-	1	-	-	2	-	1	1	-	-	-	5	
94	-	-	-	-	-	-	-	3	3	-	-	-	-	-	6	
97	-	-	-	-	-	-	-	-	1	1	-	-	-	-	2	
100	-	-	-	-	-	-	-	1	2	-	-	1	-	-	4	
103	-	-	-	-	-	-	-	1	1	-	-	1	-	-	3	
106	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	

118	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	
121	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	
124	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	
No. of Comm. Samples - ?																
Total	59	210	236	114	7	11	1	17	10	5	1	3	1		675	

Year: 1972		Country: Denmark (G)		Species: Cod								
Quarter: 3rd		Gear: Pound net		Division: 1C								
Structures used in aging: Otoliths				Reported by:								
Length	Age											Total
	4	5	6	7	8	9	10	11	12			
40	-	1	-	-	-	-	-	-	-	-	-	1
43	-	-	-	-	-	-	-	-	-	-	-	-
46	9	1	-	-	-	-	-	-	-	-	-	10
49	20	6	-	-	-	-	-	-	-	-	-	26
52	15	12	1	-	-	-	-	-	-	-	-	28
55	17	18	-	-	-	-	-	-	-	-	-	35
58	4	21	1	-	-	-	-	-	-	-	-	26
61	-	15	5	1	-	-	-	-	-	-	-	21
64	-	7	7	2	-	-	-	-	-	-	-	16
67	-	1	10	-	-	-	-	-	-	-	-	11
70	-	-	9	1	-	-	-	-	-	-	-	10
73	-	-	2	4	-	-	-	-	-	-	-	6
76	-	-	1	-	2	-	-	-	-	-	-	3
79	-	-	2	-	-	-	-	-	-	-	-	2
82	-	-	-	-	-	-	-	-	-	-	-	-
85	-	-	-	-	-	1	-	-	-	-	-	1
88	-	-	-	-	-	-	-	-	1	-	-	1
91	-	-	-	-	-	-	-	-	-	-	-	-
94	-	-	-	-	-	-	-	-	-	1	-	1
97	-	-	-	-	-	1	-	-	-	-	-	1
No. of Comm. Samples - ?												
Total	65	82	38	8	2	2	-	1	1			199

Year: 1972		Country: Denmark (G)		Species: Cod							
Quarter: 2nd		Gear: Otter trawl		Division: 1C, 1D							
Structures used in aging: Otoliths				Reported by:							
Length	Age										Total
	4	5	6	7	8	9	10	11	-	15	
40	1	-	-	-	-	-	-	-	-	-	1
43	12	-	-	-	-	-	-	-	-	-	12
46	9	5	1	-	-	-	-	-	-	-	15
49	9	9	2	-	-	-	-	-	-	-	20
52	3	20	7	-	-	-	-	-	-	-	30
55	-	9	20	1	-	-	-	-	-	-	30
58	-	5	24	1	-	-	-	-	-	-	30
61	-	-	25	4	1	-	-	-	-	-	30
64	-	1	24	3	1	1	-	-	-	-	30
67	-	-	25	2	2	-	-	-	-	-	29
70	-	-	11	1	5	2	-	-	-	-	19
73	-	-	3	3	2	-	-	-	-	-	8
76	-	-	1	1	2	2	-	-	-	-	6
79	-	-	-	-	-	-	-	-	-	-	-
82	-	-	-	-	-	-	1	-	-	-	1
85	-	-	-	-	-	-	-	-	-	-	-
88	-	-	-	-	-	-	-	-	1	-	1
91	-	-	-	-	-	-	1	-	-	-	1
No. of Comm. Samples - ?											
Total	34	49	143	16	13	5	-	2	1		263

Year: 1972		Country: Denmark (G)		Species: Cod		Year: 1972		Country: Denmark (G)		Species: Cod															
Quarter: 2nd		Gear: Pound net		Division: 1F		Quarter: 3rd		Gear: Pound net		Division: 1F															
Structures used in aging: Otoliths				Reported by:				Structures used in aging: Otoliths				Reported by:													
Length	Age											Total	Length	Age											Total
	4	5	6	7	8	9	10	11	12	13	14			15	4	5	6	7	8	9	10	11			
40	3	-	-	-	-	-	-	-	-	-	-	-	3	52	-	1	-	-	-	-	-	-	-	1	
43	15	8	1	-	1	-	-	-	-	-	-	-	25	55	-	-	2	-	3	1	-	-	-	6	
46	53	20	4	-	1	-	-	-	-	-	-	-	78	58	1	-	2	1	1	1	-	-	-	6	
49	41	34	11	-	-	-	-	-	-	-	-	-	86	61	-	-	1	3	9	4	-	-	-	17	
52	5	22	12	1	-	1	-	-	-	-	-	-	41	64	-	-	1	-	15	12	1	1	-	30	
55	1	15	15	4	2	1	-	-	-	-	-	-	38	67	-	-	-	1	15	26	1	-	-	43	
58	-	7	9	1	9	2	1	-	-	-	-	-	29	70	-	-	-	13	19	1	-	-	-	33	
61	-	6	2	-	5	7	-	-	-	-	-	-	20	73	-	-	-	-	7	14	3	2	-	26	
64	-	-	2	2	3	4	1	-	-	-	-	-	12	76	-	-	-	-	3	13	4	1	-	21	
67	-	-	-	2	5	10	1	2	-	-	-	-	20	79	-	-	-	-	10	1	-	-	-	11	
70	-	-	-	-	1	8	1	-	-	-	-	-	10	82	-	-	-	-	-	2	2	-	-	4	
73	-	-	-	-	4	11	2	-	-	-	-	-	17	85	-	-	-	-	-	-	-	1	-	1	
76	-	-	-	-	3	9	1	1	-	-	-	-	15	88	-	-	-	-	-	-	-	-	-	-	
79	-	-	-	-	-	4	1	1	-	-	-	-	6	91	-	-	-	-	-	-	-	1	-	1	
82	-	-	-	-	3	2	-	1	-	-	-	-	6												
85	-	-	-	-	-	1	-	1	-	-	-	-	3												
88	-	-	-	-	-	-	-	-	-	-	-	-	-												
91	-	-	-	-	-	-	-	-	-	-	-	-	-												
94	-	-	-	-	-	-	-	-	-	1	-	1	-	2											
97	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
100	-	-	-	-	-	-	-	-	-	-	-	1	1												
No. of Res. Samples - ?													No. of Comm. Samples - ?												
Total	118	112	56	10	37	60	8	6	1	-	2	2	412	Total	1	1	6	5	66	102	13	6	200		

Year: 1972		Country: Germany (FR)					Species: Cod					
Quarter: 1st		Gear: Otter trawl					Division: 1C					
Structures used in aging: Otoliths					Reported by: A. Meyer							
Length	Age										Total	
	5	6	7	8	9	10	11	12	13	14		15
52	2	-	-	-	-	-	-	-	-	-	2	
55	6	2	-	-	-	-	-	-	-	-	8	
58	3	8	-	-	-	-	-	-	-	-	11	
61	3	14	-	-	-	-	-	-	-	-	17	
64	2	19	-	1	-	-	-	-	-	-	22	
67	-	16	1	1	-	-	-	-	-	-	18	
70	-	14	4	1	-	-	-	-	-	-	19	
73	-	5	5	1	3	-	-	-	-	-	14	
76	-	1	8	-	1	1	1	1	-	-	13	
79	-	2	7	1	1	1	-	-	-	-	12	
82	-	-	3	-	3	-	2	1	-	-	9	
85	-	-	2	2	2	-	-	1	-	1	8	
88	-	-	-	-	2	-	-	2	-	1	5	
91	-	-	-	-	-	1	2	1	-	-	4	
94	-	-	-	-	-	1	1	3	-	-	5	
97	-	-	-	-	1	1	-	2	1	-	6	
100	-	-	-	-	-	-	2	2	-	-	4	
103	-	-	-	-	-	1	1	-	-	-	2	
No. of Comm. Samples - 1												
Total	16	81	30	7	13	5	7	14	3	1	2	179

Year: 1972		Country: Germany (FR)					Species: Cod						
Quarter: 4th		Gear: Otter trawl					Division: 1C						
Structures used in aging: Otoliths					Reported by: A. Meyer								
Length	Age										Total		
	3	4	5	6	7	8	9	10	11	12		13	14	15
34	1	2	-	-	-	-	-	-	-	-	-	-	3
37	7	1	-	-	-	-	-	-	-	-	-	-	8
40	11	6	-	-	-	-	-	-	-	-	-	-	17
43	15	6	-	-	-	-	-	-	-	-	-	-	21
46	5	17	1	-	-	-	-	-	-	-	-	-	23
49	2	23	1	-	-	-	-	-	-	-	-	-	26
52	-	15	2	-	-	-	-	-	-	-	-	-	17
55	-	14	2	-	-	-	-	-	-	-	-	-	16
58	-	12	6	-	-	-	-	-	-	-	-	-	18
61	-	9	6	-	-	-	-	-	-	-	-	-	15
64	-	1	3	1	-	-	-	-	-	-	-	-	5
67	-	-	7	2	-	-	-	-	-	-	-	-	9
70	-	-	2	-	1	-	-	-	-	-	-	-	3
73	-	-	1	2	1	1	-	-	-	-	-	-	5
76	-	-	-	3	-	-	-	-	-	-	-	-	3
79	-	-	-	-	3	-	-	-	-	-	-	-	3
82	-	-	-	1	-	1	1	-	-	-	-	-	3
85	-	-	-	-	1	-	-	-	-	-	-	-	1
97	-	-	-	-	-	-	-	-	-	-	1	-	1
100	-	-	-	-	-	-	-	-	-	1	-	1	2
No. of Res. Samples - 2													
Total	41	106	31	9	5	3	1	-	-	1	-	-	199

Year: 1972		Country: Germany (FR)					Species: Cod						
Quarter: 2nd		Gear: Otter trawl					Division: 1D						
Structures used in aging: Otoliths					Reported by: A. Meyer								
Length	Age										Total		
	3	4	5	6	7	8	9	10	11	12		13	14	15
28	-	2	-	-	-	-	-	-	-	-	-	-	2
31	-	4	-	-	-	-	-	-	-	-	-	-	4
34	1	8	-	-	-	-	-	-	-	-	-	-	9
37	1	8	-	-	-	-	-	-	-	-	-	-	9
40	1	9	1	-	-	-	-	-	-	-	-	-	11
43	1	10	1	-	-	-	-	-	-	-	-	-	12
46	-	9	3	-	-	-	-	-	-	-	-	-	12
49	-	6	7	-	-	-	-	-	-	-	-	-	13
52	-	2	10	2	-	-	-	-	-	-	-	-	14
55	-	2	8	2	5	-	-	-	-	-	-	-	17
58	-	1	7	5	1	2	1	-	-	-	-	-	17
61	-	-	9	6	-	2	3	1	-	-	-	-	21
64	-	-	4	15	3	2	1	2	-	-	-	-	27
67	-	-	1	25	4	13	1	-	-	-	-	-	44
70	-	-	-	25	10	9	7	1	-	-	-	-	52
73	-	-	-	24	17	14	16	3	-	-	-	-	75
76	-	-	-	10	23	10	10	3	1	-	1	-	58
79	-	-	-	4	15	4	14	-	-	2	-	-	39
82	-	-	-	-	11	2	7	-	1	4	-	-	25
85	-	-	-	-	10	1	2	-	1	-	-	-	14
88	-	-	-	-	4	-	1	1	1	1	-	1	10
91	-	-	-	-	-	1	-	1	1	4	-	-	7
94	-	-	-	-	-	-	1	-	3	1	-	-	7
97	-	-	-	-	-	-	-	1	2	1	1	-	6
100	-	-	-	-	-	-	-	-	-	1	-	-	2
No. of Comm. Samples - 4													
Total	4	61	52	118	103	60	64	13	10	14	1	2	507

Year: 1972		Country: Germany (FR)					Species: Cod					
Quarter: 4th		Gear: Otter trawl					Division: 1D					
Structures used in aging: Otoliths					Reported by: A. Meyer							
Length	Age										Total	
	2	3	4	5	6	7	8	9	10	11		12
34	1	-	-	-	-	-	-	-	-	-	-	1
37	-	-	2	-	-	-	-	-	-	-	-	2
40	-	-	3	4	-	-	-	-	-	-	-	7
43	-	-	3	10	-	-	-	-	-	-	-	13
46	-	-	11	30	-	-	-	-	-	-	-	41
49	-	-	2	46	1	-	-	-	-	-	-	49
52	-	-	-	49	3	-	-	-	-	-	-	52
55	-	-	-	53	8	-	-	-	-	-	-	61
58	-	-	-	23	4	-	-	-	-	-	-	27
61	-	-	-	18	8	-	-	-	-	-	-	26
64	-	-	-	2	4	-	-	-	-	-	-	6
67	-	-	-	2	1	1	1	-	-	-	-	5
70	-	-	-	2	1	2	-	-	-	-	-	5
73	-	-	-	-	2	1	-	-	-	-	-	3
76	-	-	-	-	1	-	-	-	-	-	-	1
79	-	-	-	-	1	1	-	-	-	-	-	2
82	-	-	-	-	1	2	-	-	-	-	1	4
85	-	-	-	-	1	-	-	-	-	-	-	1
88	-	-	-	-	-	-	-	-	-	-	-	-
91	-	-	-	-	-	1	-	-	-	-	-	1
94	-	-	-	-	-	-	-	1	1	2	1	5
97	-	-	-	-	-	-	-	-	-	1	-	1
100	-	-	-	-	-	-	-	-	-	1	-	1
No. of Res. Samples - 2												
Total	1	19	237	32	8	8	1	1	2	3	2	314

Year: 1972		Country: Germany (FR)		Species: Cod									
Quarter: 1st		Gear: Otter trawl		Division: E. Greenland									
Structures used in aging: Otoliths				Reported by: A. Meyer									
Length	Age											Total	
	5	6	7	8	9	10	11	12	13	14	15		15+
58	-	1	-	-	-	-	-	-	-	-	-	-	1
61	1	2	-	2	-	-	-	-	-	-	-	-	5
64	-	3	-	1	1	-	-	-	-	-	-	-	5
67	-	-	2	2	4	3	-	-	-	-	-	-	11
70	-	-	-	5	12	2	-	-	-	-	-	-	19
73	-	-	-	7	20	2	2	-	-	-	-	-	31
76	-	1	1	2	33	7	1	-	-	-	-	-	45
79	-	-	1	4	25	5	3	-	-	-	-	-	38
82	-	-	1	5	25	7	1	-	-	-	-	-	39
85	-	-	-	1	19	9	7	1	-	-	-	-	37
88	-	-	-	4	15	3	4	2	-	-	-	-	28
91	-	-	-	1	9	4	4	1	-	-	1	-	20
94	-	-	-	3	3	6	3	2	-	-	1	1	19
97	-	-	-	-	5	1	2	2	-	-	2	-	12
100	-	-	-	-	-	2	2	1	-	-	-	-	5
103	-	-	-	-	-	-	1	1	-	-	-	-	2
106	-	-	-	-	-	-	-	-	-	-	-	-	-
109	-	-	-	-	-	1	-	1	-	-	-	-	2
---	-	-	-	-	-	-	-	-	-	-	-	-	-
118	-	-	-	-	1	-	-	-	-	-	-	-	1
No. of Comm. Samples - 2													
Total	1	7	5	37	172	52	30	11	-	-	4	1	320

Year: 1972		Country: Germany (FR)		Species: Cod										
Quarter: 2nd		Gear: Otter trawl		Division: E. Greenland										
Structures used in aging: Otoliths				Reported by: A. Meyer										
Length	Age											Total		
	4	5	6	7	8	9	10	11	12	13	14		15	15+
58	-	1	1	1	1	-	-	-	-	-	-	-	4	
61	2	1	-	1	-	2	2	-	-	-	-	-	8	
64	-	3	2	-	1	3	-	-	-	-	-	-	9	
67	-	-	-	4	2	5	1	1	-	-	-	-	13	
70	-	-	3	3	-	6	2	3	-	-	-	-	17	
73	-	-	1	2	7	5	3	-	-	-	-	-	18	
76	-	-	-	2	7	7	3	-	-	-	-	-	19	
79	-	-	-	-	4	5	3	2	-	-	-	-	14	
82	-	-	-	2	2	4	5	2	-	-	-	-	15	
85	-	-	-	-	2	7	4	1	-	-	-	-	14	
88	-	-	-	-	1	9	2	2	2	1	-	-	17	
91	-	-	-	-	2	4	1	-	4	1	-	-	12	
94	-	-	-	-	-	2	3	4	1	-	1	1	12	
97	-	-	-	-	-	1	2	2	1	-	-	-	7	
100	-	-	-	-	-	1	1	1	-	1	-	-	4	
103	-	-	-	-	-	-	-	1	1	-	-	-	2	
106	-	-	-	-	-	-	-	1	1	-	-	-	2	
109	-	-	-	-	-	-	-	-	-	-	-	-	-	
112	-	-	-	-	-	-	-	-	-	-	-	1	1	
No. of Comm. Samples - 1														
Total	2	5	7	15	30	61	32	20	10	2	2	1	1	188

Year: 1972		Country: Poland		Species: Cod											
Quarter: 1st		Gear: Otter trawl		Division: 2J											
Structures used in aging: Otoliths			Reported by: Stanck & Janusz												
Length	Age														Total
	3	4	5	6	7	8	9	10	11	12	13	14	15		
25	2	2	-	-	-	-	-	-	-	-	-	-	-	-	4
28	2	9	-	-	-	-	-	-	-	-	-	-	-	-	11
31	-	34	5	-	-	-	-	-	-	-	-	-	-	-	39
34	-	32	64	1	-	-	-	-	-	-	-	-	-	-	97
37	-	10	128	6	-	-	-	-	-	-	-	-	-	-	144
40	-	3	138	15	-	-	-	-	-	-	-	-	-	-	156
43	-	2	64	42	5	1	-	-	-	-	-	-	-	-	114
46	-	-	24	61	23	-	-	-	-	-	-	-	-	-	108
49	-	-	14	64	39	4	-	-	-	-	-	-	-	-	121
52	-	-	3	40	49	8	-	-	-	-	-	-	-	-	100
55	-	-	2	17	53	13	1	-	-	-	-	-	-	-	86
58	-	-	-	6	36	22	3	1	-	-	-	-	-	-	68
61	-	-	1	6	25	21	5	1	1	-	-	-	-	-	60
64	-	-	-	-	17	18	3	-	-	-	-	-	-	-	38
67	-	-	-	-	4	14	5	2	1	-	1	-	-	-	27
70	-	-	-	-	-	8	3	2	1	-	-	-	-	-	14
73	-	-	-	-	-	-	3	1	-	-	1	-	-	-	5
76	-	-	-	-	-	2	2	1	-	-	-	-	1	-	6
79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
82	-	-	-	-	-	-	-	1	1	-	-	-	-	-	2
No. of Comm. Samples - ?															
Total	4	92	443	258	251	111	25	9	4	-	2	-	1	-	1200

Year: 1972		Country: Poland		Species: Cod												
Quarter: 1st		Gear: Otter trawl		Division: 3K												
Structures used in aging: Otoliths			Reported by: Stanck & Janusz													
Length	Age															Total
	3	4	5	6	7	8	9	10	11	12	13	14	15	15+		
25	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	
28	-	7	1	-	-	-	-	-	-	-	-	-	-	-	8	
31	-	19	4	-	-	-	-	-	-	-	-	-	-	-	23	
34	1	24	31	-	-	-	-	-	-	-	-	-	-	-	56	
37	-	27	83	7	-	-	-	-	-	-	-	-	-	-	117	
40	-	16	128	11	-	-	-	-	-	-	-	-	-	-	155	
43	-	6	111	35	3	-	-	-	-	-	-	-	-	-	155	
46	-	2	57	79	12	-	1	-	-	-	-	-	-	-	151	
49	-	-	33	87	23	2	-	-	-	-	-	-	-	-	145	
52	-	-	7	78	47	6	-	-	-	-	-	-	-	-	138	
55	-	-	3	48	65	15	2	-	-	-	-	-	-	-	133	
58	-	-	1	24	45	18	2	1	-	-	-	-	-	-	91	
61	-	-	-	9	28	27	3	1	-	-	-	-	-	-	68	
64	-	-	-	2	17	22	8	4	-	-	-	-	-	-	53	
67	-	-	-	-	10	14	6	-	-	-	-	-	-	-	30	
70	-	-	-	-	1	10	3	1	1	-	-	-	-	-	16	
73	-	-	-	-	-	2	2	2	1	1	-	-	-	-	6	
76	-	-	-	-	1	1	2	2	1	-	1	-	-	-	8	
79	-	-	-	-	-	-	4	-	-	-	-	-	-	-	4	
--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
94	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	
No. of Comm. Samples - ?																
Total	1	102	459	380	252	115	33	11	2	1	2	-	-	1	1359	

Year: 1972		Country: Poland		Species: Cod		
Quarter: 1st		Gear: Otter trawl		Division: 3L		
Structures used in aging: Otoliths			Reported by: Stanck & Janusz			
Length	Age					Total
	3	4	5	6	7	
25	1	2	-	-	-	3
28	-	6	-	-	-	6
31	-	21	1	-	-	22
34	-	18	5	-	-	23
37	-	20	16	-	-	36
40	-	19	32	-	-	51
43	-	2	18	6	-	26
46	-	1	9	3	-	13
49	-	-	4	6	-	10
52	-	-	1	4	-	5
55	-	-	1	2	1	4
58	-	-	-	-	-	-
61	-	-	-	1	-	1
No. of Comm. Samples - ?						
Total	1	89	87	22	1	200

Year: 1972		Country: Portugal		Species: Cod							
Quarter: 2nd		Gear: Gillnets		Division: 1C							
Structures used in aging: Otoliths			Reported by: R. Monteiro								
Length	Age										Total
	5	6	7	8	9	10	11	12	13	14	
52	1	1	-	-	-	-	-	-	-	-	2
55	-	-	-	-	-	-	-	-	-	-	-
58	-	1	-	-	-	-	-	-	-	-	1
61	-	-	-	-	-	-	-	-	-	-	-
64	-	1	1	-	-	-	-	-	-	-	2
67	1	4	1	-	-	-	-	-	-	-	6
70	-	4	1	-	-	-	-	-	-	-	5
73	-	5	5	1	-	-	1	-	-	-	12
76	-	-	8	2	1	1	-	-	-	-	12
79	-	-	13	5	-	3	1	-	1	-	23
82	-	-	6	7	5	2	3	2	-	-	25
85	-	-	4	1	2	2	3	5	-	-	17
88	-	-	-	1	-	4	6	3	-	-	14
91	-	-	-	1	-	2	4	2	1	-	10
94	-	-	-	-	1	-	4	3	-	-	8
97	-	-	-	-	-	2	1	2	-	-	5
100	-	-	-	-	-	1	4	1	-	-	6
103	-	-	-	-	-	-	-	-	1	-	1
106	-	-	-	-	-	-	1	-	-	-	1
No. of Comm. Samples - 2											
Total	2	16	39	18	9	14	25	21	5	1	150

Year: 1972		Country: Portugal		Species: Cod									
Quarter: 3rd		Gear: Gillnets		Division: 1C									
Structures used in aging: Otoliths			Reported by: R. Monteiro										
Length	Age										Total		
	5	6	7	8	9	10	11	12	13	14		15	15+
58	1	-	-	-	-	-	-	-	-	-	-	-	1
61	-	-	-	-	-	-	-	-	-	-	-	-	-
64	-	5	-	-	-	-	-	-	-	-	-	-	5
67	1	9	-	-	-	-	-	-	-	-	-	-	10
70	-	10	6	2	1	-	-	1	-	-	-	-	20
73	-	13	23	8	-	-	1	-	-	-	-	-	45
76	-	7	47	11	4	-	1	-	-	-	-	-	70
79	-	3	50	13	4	2	5	-	-	-	-	-	77
82	-	-	36	10	9	6	8	5	1	1	-	-	76
85	-	-	11	11	8	8	16	12	-	-	-	-	66
88	-	-	2	6	3	6	19	15	2	-	1	-	54
91	-	-	-	1	5	8	26	14	-	-	1	-	55
94	-	-	-	-	2	3	14	10	3	2	3	-	37
97	-	-	-	-	1	2	7	14	3	3	-	-	30
100	-	-	-	-	-	2	4	9	1	-	-	-	16
103	-	-	-	-	-	1	-	2	1	-	-	-	4
106	-	-	-	-	-	-	1	1	-	1	1	-	4
109	-	-	-	-	-	-	-	1	-	-	-	-	1
112	-	-	-	-	-	-	-	-	1	-	-	1	2
115	-	-	-	-	-	-	-	-	1	-	-	-	1
118	-	-	-	-	-	-	-	-	-	1	-	-	1
No. of Comm. Samples - 8													
Total	2	47	175	62	37	38	102	84	13	8	6	1	575

Year: 1972		Country: Spain		Species: Cod							
Quarter: 3rd		Gear: Otter trawl		Division: 3L							
Structures used in aging: Otoliths			Reported by: Rucabado, Lopez, Larraneta								
Length	Age										Total
	3	4	5	6	7	8	9	10	11	12	
28	2	2	-	-	-	-	-	-	-	-	4
31	6	3	-	-	-	-	-	-	-	-	9
34	2	10	-	-	-	-	-	-	-	-	12
37	-	10	1	1	-	-	-	-	-	-	12
40	-	11	-	-	-	-	-	-	-	-	11
43	-	7	2	-	-	-	-	-	-	-	9
46	3	5	2	-	-	-	-	-	-	-	10
49	-	8	1	-	-	-	-	-	-	-	9
52	1	8	-	-	-	-	-	-	-	-	9
55	-	3	4	2	1	-	-	-	-	-	10
58	-	-	5	2	1	-	-	-	-	-	8
61	-	-	3	6	1	-	-	-	-	-	10
64	-	-	1	6	2	3	-	-	-	-	12
67	-	-	2	5	3	-	-	-	-	-	10
70	-	-	1	-	-	2	1	-	-	-	4
73	-	-	-	-	-	1	-	-	1	1	3
76	-	-	-	-	2	3	1	1	-	-	7
79	-	-	-	-	-	1	-	-	1	-	2
82	-	-	-	-	-	1	-	-	-	-	1
85	-	-	-	-	-	1	1	-	-	-	2
No. of Comm. Samples - ?											
Total	14	67	22	22	10	12	3	1	2	1	154

Year: 1972		Country: Spain		Species: Cod					
Quarter: 1st		Gear: Otter trawl		Division: 3M					
Structures used in aging: Otoliths			Reported by: Rucabado, Lopez, Larraneta						
Length	Age								Total
	3	4	5	6	7	8	9		
31	2	1	-	-	-	-	-	-	3
34	-	-	-	-	-	-	-	-	-
37	-	1	1	-	-	-	-	-	2
40	2	1	2	-	-	-	-	-	5
43	2	2	1	-	-	-	-	-	5
46	-	4	-	-	-	-	-	-	4
49	1	1	3	2	-	-	-	-	7
52	1	3	1	1	1	-	-	-	7
55	-	-	1	4	-	-	1	-	6
58	-	-	1	2	2	-	-	-	5
61	-	-	-	3	2	-	-	-	5
64	-	-	2	-	-	-	1	-	3
67	-	-	-	1	1	-	-	-	2
70	-	-	-	-	1	1	1	-	3
--	-	-	-	-	-	-	-	-	-
85	-	-	-	-	1	-	-	-	1
No. of Comm. Samples - ?									
Total	8	13	12	13	8	1	3		58

Year: 1972		Country: Spain		Species: Cod					
Quarter: 1st		Gear: Otter trawl		Division: 4R					
Structures used in aging: Otoliths			Reported by: Rucabodo, Lopez, Larraneta						
Length	Age							Total	
	2	3	4	5	6	7	8		9
31	1	-	-	-	-	-	-	1	
34	-	1	-	1	1	-	-	3	
37	-	-	2	2	-	-	-	2	
40	-	-	2	2	-	-	-	4	
43	-	-	-	3	1	-	-	4	
46	-	-	-	4	2	2	-	8	
49	-	-	-	1	3	1	2	7	
52	-	-	-	-	2	5	1	9	
55	-	-	-	-	2	1	2	5	
58	-	-	-	-	3	1	1	5	
--	-	-	-	-	-	-	-	-	
67	-	-	-	-	-	-	1	1	
70	-	-	-	-	-	-	1	1	
No. of Comm. Samples - ?									
Total	1	1	2	13	14	10	8	1	50

Year: 1972		Country: Spain		Species: Cod											
Quarter: 1st		Gear: Otter trawl		Division: 4Vn											
Structures used in aging: Otoliths			Reported by: Rucabodo, Lopez, Larraneta												
Length	Age													Total	
	2	3	4	5	6	7	8	9	10	11	12	13	14		15+
31	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1
34	1	-	3	-	-	-	-	-	-	-	-	-	-	-	4
37	1	1	8	3	2	-	-	-	-	-	-	-	-	-	15
40	-	2	2	4	3	-	-	-	-	-	-	-	-	-	11
43	-	2	5	3	3	1	-	-	-	-	-	-	-	-	14
46	-	1	8	1	4	1	-	-	-	-	-	-	-	-	15
49	-	1	2	2	5	2	1	1	-	-	-	-	-	-	14
52	-	-	3	2	9	1	-	-	-	-	-	-	-	-	15
55	-	-	3	2	5	5	1	-	-	-	-	-	-	-	16
58	-	-	1	1	7	6	4	-	-	-	-	-	-	-	19
61	-	-	-	3	4	3	1	-	-	1	-	-	-	1	13
64	-	-	-	2	5	2	-	2	-	-	1	-	-	-	12
67	-	-	-	-	5	1	1	-	-	-	-	-	-	-	7
70	-	-	-	-	1	1	1	-	-	-	-	-	-	-	3
73	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-
76	-	-	-	-	-	3	-	2	-	-	-	-	-	-	5
No. of Comm. Samples - ?															
Total	2	7	35	24	53	28	9	6	-	1	1	-	-	1	167

Year: 1972		Country: Spain		Species: Cod				
Quarter: 3rd		Gear: Otter trawl		Division: 4Vn				
Structures used in aging: Otoliths			Reported by: Rucabodo, Lopez, Larraneta					
Length	Age							Total
	3	4	5	6	7	8	9	
40	1	1	-	-	-	-	-	2
43	-	4	-	-	-	-	-	4
46	1	9	1	-	-	-	-	11
49	2	12	1	1	-	-	-	16
52	-	2	-	1	-	-	-	3
55	-	-	3	2	-	1	-	6
58	-	-	4	2	-	-	-	6
61	-	-	3	1	-	-	-	4
64	-	1	2	1	-	-	-	4
67	-	1	3	2	1	1	-	8
70	-	-	-	1	1	-	-	2
73	-	-	1	1	2	-	1	5
76	-	-	-	-	-	-	-	-
79	-	-	-	-	1	-	-	1
No. of Comm. Samples - ?								
Total	4	30	18	12	5	2	1	72

Year: 1972		Country: USSR				Species: Cod										
Quarter: 2nd		Gear: Otter trawl				Division: 2J										
Structures used in aging: Otoliths				Reported by: Konstantinov												
Length	Age															Total
	4	5	6	7	8	9	10	11	12	13	14	15	16	16+		
31	2	-	-	-	-	-	-	-	-	-	-	-	-	-	2	
34	4	5	-	-	-	-	-	-	-	-	-	-	-	-	9	
37	6	25	5	-	-	-	-	-	-	-	-	-	-	-	36	
40	3	33	20	2	-	-	-	-	-	-	-	-	-	-	58	
43	1	22	21	9	-	-	-	-	-	-	-	-	-	-	53	
46	1	11	37	19	3	-	-	-	-	-	-	-	-	-	71	
49	-	5	18	20	5	1	-	-	-	-	-	-	-	-	49	
52	-	-	9	25	11	3	-	-	-	-	-	-	-	-	48	
55	-	2	7	24	16	2	3	1	1	-	-	-	-	-	56	
58	-	-	4	21	21	11	2	2	-	1	-	-	-	-	62	
61	-	-	1	7	17	16	10	5	-	-	-	-	-	-	56	
64	-	-	-	1	14	19	12	7	4	-	1	-	-	-	58	
67	-	-	-	1	13	18	12	5	3	1	-	-	-	-	53	
70	-	-	-	-	5	5	15	5	5	1	-	-	1	-	37	
73	-	-	-	1	2	4	8	6	2	1	1	1	-	-	26	
76	-	-	-	-	-	1	2	1	4	1	-	-	-	1	10	
79	-	-	-	-	-	1	2	1	1	-	-	-	-	1	6	
82	-	-	-	-	-	-	-	1	3	1	-	-	-	1	6	
85	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	
88	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	
97	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	
No. of Res. Samples - 2																
Total	17	103	122	130	107	81	66	35	23	7	3	1	1	3	699	

Year: 1972		Country: UK		Species: Cod			
Quarter: 1st		Gear: Otter trawl		Division: 1B			
Structures used in aging: Otoliths			Reported by: C.L. Whiting				
Length	Age					Total	
	4	5	6	7	8		9
40	3	-	-	-	-	3	
43	2	1	-	-	-	3	
46	2	3	-	-	-	5	
49	5	7	-	-	-	12	
52	2	7	-	-	-	9	
55	-	6	-	-	-	6	
58	-	2	1	-	-	3	
61	-	3	5	-	-	8	
64	-	-	6	2	1	9	
67	-	-	3	-	-	3	
70	-	-	-	1	1	2	
73	-	-	-	1	-	1	
76	-	-	-	1	-	1	
No. of Res. Samples - 1							
Total	14	29	15	5	2	1	66

Year: 1972		Country: UK		Species: Cod		
Quarter: 1st		Gear: Otter trawl		Division: 1C		
Structures used in aging: Otoliths			Reported by: C.L. Whiting			
Length	Age					Total
	4	5	6	7	8	
43	-	1	-	-	-	1
46	4	3	-	-	-	7
49	6	7	-	-	-	13
52	7	14	-	-	-	21
55	4	16	2	-	-	22
58	-	10	5	1	-	16
61	-	8	6	2	-	16
64	-	2	6	2	-	10
67	-	1	4	-	1	6
70	-	-	2	-	-	2
73	-	-	-	-	-	-
76	-	-	1	-	-	1
79	-	-	-	-	-	-
82	-	-	-	1	-	1
No. of Res. Samples - 1						
Total	21	62	26	6	1	116

Year: 1972		Country: UK		Species: Cod	
Quarter: 1st		Gear: Otter trawl		Division: 1D	
Structures used in aging: Otoliths			Reported by: C.L. Whiting		
Length	Age				Total
	3	4	5	6	
31	-	1	-	-	1
34	-	1	-	-	1
37	1	5	-	-	6
40	-	6	2	-	8
43	-	7	1	-	8
46	-	-	1	-	1
49	-	-	-	-	-
52	-	1	1	1	3
55	-	-	-	-	-
58	-	-	-	-	-
61	-	-	-	1	1
64	-	-	-	2	2
No. of Res. Samples - 1					
Total	1	21	5	4	31

Year: 1972		Country: UK		Species: Cod											
Quarter: 4th		Gear: Otter trawl		Division: 1D											
Structures used in aging: Otoliths			Reported by: C.L. Whiting												
Length	Age												Total		
	1	2	3	4	5	6	7	8	9	10	11	12		13	13+
16	1	-	-	-	-	-	-	-	-	-	-	-	-	1	
19	2	1	-	-	-	-	-	-	-	-	-	-	-	3	
22	1	2	-	-	-	-	-	-	-	-	-	-	-	3	
25	-	1	-	-	-	-	-	-	-	-	-	-	-	1	
28	-	1	2	-	-	-	-	-	-	-	-	-	-	3	
31	-	-	1	2	-	-	-	-	-	-	-	-	-	3	
34	-	-	-	6	-	-	-	-	-	-	-	-	-	6	
37	-	-	2	13	-	-	-	-	-	-	-	-	-	15	
40	-	-	-	11	-	-	-	-	-	-	-	-	-	11	
43	-	-	1	8	-	-	-	-	-	-	-	-	-	9	
46	-	-	-	12	1	-	-	-	-	-	-	-	-	13	
49	-	-	-	16	-	-	-	-	-	-	-	-	-	16	
52	-	-	1	17	2	-	-	-	-	-	-	-	-	20	
55	-	-	-	10	1	-	-	-	-	-	-	-	-	11	
58	-	-	-	3	-	-	-	-	-	-	-	-	-	3	
61	-	-	-	6	4	-	-	-	-	-	-	-	-	10	
64	-	-	-	4	1	-	-	-	-	-	-	-	-	5	
67	-	-	-	2	2	-	-	-	-	-	-	-	-	4	
70	-	-	-	-	5	-	-	-	-	-	-	-	-	5	
73	-	-	-	2	3	-	-	1	-	-	-	-	-	6	
76	-	-	-	-	10	3	1	1	-	-	-	-	-	15	
79	-	-	-	-	4	5	-	1	-	-	-	-	-	10	
82	-	-	-	-	1	5	1	3	-	-	-	-	-	11	
85	-	-	-	-	2	6	-	-	-	-	1	-	-	9	
88	-	-	-	-	-	3	-	-	-	-	-	1	-	4	
91	-	-	-	-	-	1	-	1	-	2	-	-	-	4	
94	-	-	-	-	-	-	-	1	2	1	1	-	-	5	
97	-	-	-	-	-	-	-	1	1	4	-	-	-	6	
100	-	-	-	-	-	-	-	1	1	4	-	-	-	6	
103	-	-	-	-	-	-	-	-	1	1	1	3	-	6	
106	-	-	-	-	-	-	-	-	-	2	1	-	-	3	
109	-	-	-	-	-	-	-	1	1	-	1	1	-	4	
No. of Res. Samples - 1															
Total	4	5	7	104	16	28	23	2	7	4	9	13	5	4	231

Year: 1972		Country: UK		Species: Cod				
Quarter: 1st		Gear: Otter trawl		Division: 1E				
Structures used in aging: Otoliths				Reported by: C.L. Whiting				
Length	Age							Total
	4	5	6	7	8	9	10	
34	1	-	-	-	-	-	-	1
37	-	1	-	-	-	-	-	1
40	4	-	-	-	-	-	-	4
43	6	4	-	-	-	-	-	10
46	2	5	1	-	-	-	-	8
49	2	3	2	-	-	-	-	7
52	-	1	3	-	-	-	-	4
55	-	-	2	1	1	-	-	4
58	-	1	2	1	-	-	-	4
61	-	-	1	-	1	1	-	3
64	-	-	-	1	1	-	-	2
67	-	-	-	1	-	2	-	3
70	-	-	-	-	-	-	1	1
73	-	-	-	-	-	-	-	-
76	-	-	-	-	1	-	-	1
79	-	-	-	-	1	1	-	2
No. of Res. Samples - 1								
Total	15	15	11	4	5	4	1	55

Year: 1972		Country: UK		Species: Cod				
Quarter: 2nd		Gear: Otter trawl		Division: 1E				
Structures used in aging: Otoliths				Reported by: C.L. Whiting				
Length	Age							Total
	4	5	6	7	8	9		
37	1	-	-	-	-	-	-	1
40	-	-	-	-	-	-	-	-
43	2	-	-	-	-	-	-	2
46	-	-	1	-	-	-	-	1
49	-	1	-	-	-	-	-	1
52	-	-	1	1	-	-	-	2
55	-	-	-	-	-	-	-	-
58	-	-	2	-	-	-	-	2
61	-	-	-	-	-	1	-	1
64	-	-	-	1	-	-	-	1
67	-	-	1	-	-	1	-	2
70	-	-	-	-	-	-	-	-
73	-	-	-	2	-	-	-	2
76	-	-	-	-	-	1	-	1
79	-	-	-	-	1	-	-	1
No. of Comm. Samples - 1								
Total	3	1	5	4	1	3		17

Year: 1972		Country: UK		Species: Cod								
Quarter: 3rd		Gear: Otter trawl		Division: 1E								
Structures used in aging: Otoliths				Reported by: C.L. Whiting								
Length	Age										Total	
	4	5	6	7	8	9	10	11	12	13		
37	2	2	-	-	-	-	-	-	-	-	-	4
40	-	-	-	-	-	-	-	-	-	-	-	-
43	3	1	-	-	-	-	-	-	-	-	-	4
46	1	1	-	-	-	-	-	-	-	-	-	2
49	-	1	1	-	-	-	-	-	-	-	-	2
52	-	4	-	-	-	-	-	-	-	-	-	4
55	-	-	-	-	-	-	-	-	-	-	-	-
58	-	2	2	-	-	-	-	-	-	-	-	4
61	-	-	2	-	-	-	-	-	-	-	-	2
64	-	-	-	-	2	-	-	-	-	-	-	2
67	-	-	-	-	3	1	-	-	-	-	-	4
70	-	-	-	-	-	-	-	-	-	-	-	-
73	-	-	-	-	1	3	-	-	-	-	-	4
76	-	-	-	-	1	1	-	-	-	-	-	2
79	-	-	-	-	1	-	1	-	-	-	-	2
82	-	-	-	-	-	1	1	-	-	-	-	2
85	-	-	-	-	-	1	1	2	-	-	-	4
88	-	-	-	-	-	1	-	-	-	1	-	2
91	-	-	-	-	-	-	1	-	-	-	-	1
94	-	-	-	-	-	-	-	1	-	1	-	2
97	-	-	-	-	-	-	-	2	-	-	-	2
No. of Comm. Samples - 2												
Total	6	11	5	-	8	8	5	4	1	1		49

Year: 1972		Country: UK		Species: Cod									
Quarter: 4th		Gear: Otter trawl		Division: 1E									
Structures used in aging: Otoliths				Reported by: C.L. Whiting									
Length	Age												Total
	2	3	4	5	6	7	8	9	10	11	12	13	
25	2	-	-	-	-	-	-	-	-	-	-	-	2
28	4	1	-	-	-	-	-	-	-	-	-	-	5
31	1	-	-	-	-	-	-	-	-	-	-	-	1
34	-	1	1	-	-	-	-	-	-	-	-	-	2
37	-	1	3	-	-	-	-	-	-	-	-	-	4
40	-	1	3	-	-	-	-	-	-	-	-	-	4
43	-	-	2	-	-	-	-	-	-	-	-	-	2
46	-	-	6	-	-	-	-	-	-	-	-	-	6
49	-	-	3	-	-	-	-	-	-	-	-	-	3
52	-	-	2	-	-	-	-	-	-	-	-	-	2
55	-	-	-	-	-	-	-	-	-	-	-	-	-
58	-	-	5	1	1	-	-	-	-	-	-	-	7
61	-	-	1	1	3	-	-	-	-	-	-	-	5
64	-	-	-	1	2	-	-	-	-	-	-	-	3
67	-	-	-	-	-	-	-	-	1	-	-	-	1
70	-	-	-	1	1	-	-	-	-	-	-	-	2
73	-	-	-	-	1	1	-	1	1	-	-	-	3
76	-	-	-	-	1	2	-	-	-	-	-	-	3
79	-	-	-	-	-	1	1	1	1	-	-	-	4
82	-	-	-	-	-	-	2	-	-	-	-	-	2
85	-	-	-	-	-	1	1	2	-	-	-	-	4
88	-	-	-	-	-	-	-	2	-	-	-	-	2
91	-	-	-	-	-	-	-	-	1	-	-	-	1
--	-	-	-	-	-	-	-	-	-	-	-	-	-
103	-	-	-	-	-	-	-	-	-	-	1	-	1
No. of Res. Samples - 1													
Total	7	4	26	4	8	3	5	8	3	-	-	1	69

Year: 1972		Country: UK		Species: Cod							
Quarter: 1st		Gear: Otter trawl		Division: 1F							
Structures used in aging: Otoliths				Reported by: C.L. Whiting							
Length	Age										Total
	4	5	6	7	8	9	10	11	12		
34	1	-	-	-	-	-	-	-	-	-	1
37	-	-	-	-	-	-	-	-	-	-	-
40	1	1	-	-	-	-	-	-	-	-	2
43	2	1	-	-	-	-	-	-	-	-	3
46	-	-	1	-	-	-	-	-	-	-	1
49	-	-	1	-	-	-	-	-	-	-	1
52	-	1	-	-	-	-	-	-	-	-	1
55	-	-	-	-	2	-	-	-	-	-	2
58	-	-	-	1	1	-	-	-	-	-	2
61	-	-	3	-	7	5	-	1	-	-	16
64	-	-	-	-	16	2	1	-	-	-	19
67	-	-	-	1	9	14	3	1	-	-	28
70	-	-	-	2	9	12	-	-	-	-	23
73	-	-	-	-	6	15	3	2	-	-	26
76	-	-	-	-	3	10	4	1	-	-	18
79	-	-	-	-	-	4	3	2	1	-	10
82	-	-	-	-	-	2	2	1	-	-	5
85	-	-	-	-	-	1	-	-	-	-	1
88	-	-	-	-	-	-	-	-	1	-	1
No. of Res. Samples - 1											
Total	4	3	5	4	53	16	8	2			160

Year: 1972		Country: UK		Species: Cod												
Quarter: 4th		Gear: Otter trawl		Division: 1F												
Structures used in aging: Otoliths				Reported by: C.L. Whiting												
Length	Age															Total
	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
22	2	-	-	-	-	-	-	-	-	-	-	-	-	-	2	
25	3	-	-	-	-	-	-	-	-	-	-	-	-	-	3	
28	8	-	-	-	-	-	-	-	-	-	-	-	-	-	8	
31	3	3	1	-	-	-	-	-	-	-	-	-	-	-	7	
34	-	-	2	-	-	-	-	-	-	-	-	-	-	-	2	
37	-	-	8	-	-	-	-	-	-	-	-	-	-	-	8	
40	-	-	5	1	-	-	-	-	-	-	-	-	-	-	6	
43	-	-	13	-	-	-	-	-	-	-	-	-	-	-	13	
46	-	-	7	1	-	-	-	-	-	-	-	-	-	-	8	
49	-	-	9	2	-	-	-	-	-	-	-	-	-	-	11	
52	-	-	10	2	-	-	-	-	-	-	-	-	-	-	12	
55	-	-	4	1	-	1	-	-	-	-	-	-	-	-	6	
58	-	-	1	2	4	-	1	-	-	-	-	-	-	-	8	
61	-	-	-	3	2	-	-	-	-	-	-	-	-	-	5	
64	-	-	1	-	5	1	2	1	-	-	-	-	-	-	10	
67	-	-	-	-	1	2	4	-	1	-	-	-	-	-	8	
70	-	-	-	-	-	8	2	-	1	-	-	-	-	-	11	
73	-	-	-	-	1	1	-	3	-	-	-	-	-	-	5	
76	-	-	-	-	1	-	4	7	-	-	-	-	-	-	12	
79	-	-	-	-	1	-	7	2	2	-	1	-	-	-	13	
82	-	-	-	-	-	-	5	5	2	1	-	-	-	-	13	
85	-	-	-	-	-	-	3	4	-	-	-	-	-	-	7	
88	-	-	-	-	-	-	1	4	3	1	-	-	-	-	9	
91	-	-	-	-	-	-	-	5	4	-	-	-	-	-	9	
94	-	-	-	-	-	-	-	3	2	-	-	-	-	1	6	
97	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	
109	-	-	-	-	-	-	-	-	1	-	1	-	-	-	2	
No. of Res. Samples - 1																
Total	16	3	61	12	15	5	35	36	15	4	2	-	-	1	205	

Year: 1972		Country: UK		Species: Cod					
Quarter: 3-4 ¹		Gear: Otter trawl		Division: 2J					
Structures used in aging: Otoliths			Reported by: C.L. Whiting						
Length	Age							Total	
	4	5	6	7	8	9	10		11
37	2	1	-	-	-	-	-	3	
40	2	1	-	-	-	-	-	3	
43	3	2	1	-	-	-	-	6	
46	2	4	3	-	-	-	-	9	
49	3	1	3	-	-	-	-	7	
52	1	-	3	2	-	-	-	6	
55	2	-	3	-	1	-	-	6	
58	1	1	2	5	3	1	-	13	
61	-	-	1	2	1	1	-	6	
64	-	-	-	4	4	1	-	9	
67	-	-	1	2	1	-	-	4	
70	-	1	-	2	2	-	3	8	
73	-	-	-	-	2	-	-	2	
76	-	-	-	-	-	5	1	6	
79	-	-	-	-	1	6	1	8	
82	-	-	-	-	2	1	-	3	
85	-	-	-	-	1	2	2	6	
88	-	-	-	-	-	2	-	2	
91	-	-	-	-	-	-	-	-	
94	-	-	-	-	-	-	1	1	
97	-	-	-	-	-	-	-	-	
100	-	-	-	-	-	1	-	1	
No. of Comm. Samples - 4									
Total	16	11	17	17	18	20	8	2	109

Year: 1972		Country: UK		Species: Cod								
Quarter: 2nd		Gear: Otter trawl		Division: 3M								
Structures used in aging: Otoliths			Reported by: C.L. Whiting									
Length	Age										Total	
	4	5	6	7	8	9	10	11	12	13		14
34	1	-	-	-	-	-	-	-	-	-	-	1
37	2	-	-	-	-	-	-	-	-	-	-	2
40	3	-	-	-	-	-	-	-	-	-	-	3
43	2	1	-	-	-	-	-	-	-	-	-	3
46	3	-	-	-	-	-	-	-	-	-	-	3
49	1	1	-	-	-	-	-	-	-	-	-	2
52	3	-	-	-	-	-	-	-	-	-	-	3
55	-	1	1	-	1	-	-	-	-	-	-	3
58	-	2	1	1	-	-	-	-	-	-	-	4
61	-	-	1	-	-	1	1	-	-	-	-	3
64	-	1	1	-	1	-	-	-	-	-	-	3
67	-	-	1	-	-	1	-	1	-	-	-	3
70	-	-	-	1	-	2	-	-	-	-	-	3
73	-	-	-	1	-	-	-	2	-	-	-	3
76	-	-	1	-	1	-	1	-	-	-	-	3
79	-	-	-	-	-	2	1	-	-	-	-	3
82	-	-	-	-	2	-	1	-	-	-	-	3
85	-	-	-	-	1	-	1	-	-	-	-	2
88	-	-	-	1	-	-	-	1	1	-	-	3
91	-	-	-	-	-	-	1	-	-	-	-	1
94	-	-	-	-	-	2	-	-	-	-	-	2
97	-	-	-	-	-	1	-	-	1	-	-	2
100	-	-	-	-	-	1	-	-	-	-	-	1
103	-	-	-	-	-	1	-	-	1	-	-	2
106	-	-	-	-	-	1	1	-	-	-	-	2
109	-	-	-	-	-	2	-	-	-	-	-	2
112	-	-	-	-	-	-	-	-	-	-	-	-
115	-	-	-	-	-	1	-	-	-	-	-	1
No. of Comm. Samples - 2												
Total	15	6	6	4	5	7	13	6	1	2	1	66

Year: 1972		Country: UK		Species: Cod											
Quarter: 3rd		Gear: Otter trawl		Division: 3M											
Structures used in aging: Otoliths			Reported by: C.L. Whiting												
Length	Age														Total
	4	5	6	7	8	9	10	11	12	13	14	15	16		
37	2	-	-	-	-	-	-	-	-	-	-	-	-	-	2
40	4	-	-	-	-	-	-	-	-	-	-	-	-	-	4
43	2	2	-	-	-	-	-	-	-	-	-	-	-	-	4
46	3	2	-	-	-	-	-	-	-	-	-	-	-	-	5
49	1	1	1	-	-	-	-	-	-	-	-	-	-	-	3
52	2	2	-	-	1	-	-	-	-	-	-	-	-	-	5
55	-	-	2	2	-	-	-	-	-	-	-	-	-	-	4
58	-	3	-	2	-	-	-	-	-	-	-	-	-	-	5
61	-	-	1	1	-	-	-	-	-	-	-	-	-	-	2
64	-	2	4	-	-	-	-	-	-	-	-	-	-	-	6
67	-	-	2	-	2	-	-	-	-	-	-	-	-	-	4
70	-	-	-	2	-	2	-	-	-	-	-	-	-	-	4
73	-	-	-	2	1	-	-	-	-	-	-	-	-	-	3
76	-	-	1	3	1	-	-	-	-	-	-	-	-	-	5
79	-	-	-	-	-	1	-	-	1	-	-	-	-	-	2
82	-	-	-	-	3	-	-	-	-	-	-	-	1	-	4
85	-	-	-	-	-	1	1	-	-	-	-	-	-	-	2
88	-	-	-	1	-	-	1	-	1	-	-	-	-	-	3
91	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1
94	-	-	-	-	-	-	2	-	-	-	-	-	-	-	2
97	-	-	-	-	-	-	1	-	1	-	-	-	-	-	1
100	-	-	-	-	-	1	-	-	-	-	-	-	-	-	2
103	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1
106	-	-	-	-	-	-	1	1	-	-	-	-	-	-	2
109	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1
112	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
115	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1
No. of Comm. Samples - 3															
Total	14	12	11	11	11	4	11	1	1	1	-	-	1	-	78

¹ Aug, Sep, Oct.

Year: 1972		Country: Canada (M & Q)		Species: Haddock							
Quarter: 1st		Gear: Otter trawl		Division: 4W							
Structures used in aging: Otoliths		Reported by: Halliday & Fitzgerald									
(2 cm)	Age										Total
Length	2	3	4	5	6	7	8	9	10	11	
30	2	1	-	-	-	-	-	-	-	-	3
32	-	3	-	-	-	-	-	-	-	-	3
34	-	8	-	-	-	-	-	-	-	-	8
36	-	4	-	-	-	-	-	-	-	-	4
38	-	7	4	-	-	-	-	-	-	-	11
40	-	1	5	-	-	-	-	-	-	-	6
42	-	-	11	-	-	-	-	-	-	-	11
44	-	1	7	2	-	-	-	-	-	-	10
46	-	1	6	4	-	-	-	-	-	-	11
48	-	-	3	9	1	-	-	-	-	-	13
50	-	-	1	7	4	-	-	-	-	-	12
52	-	-	-	9	2	-	1	-	-	-	12
54	-	-	-	2	8	2	-	-	-	-	12
56	-	-	-	-	8	3	-	-	-	-	11
58	-	-	-	-	6	3	3	-	-	-	12
60	-	-	-	-	3	3	3	2	-	1	12
62	-	-	-	-	3	2	3	3	-	-	11
64	-	-	-	-	-	2	4	3	-	-	9
66	-	-	-	-	-	2	1	2	-	-	5
68	-	-	-	-	-	-	2	3	-	-	5
70	-	-	-	-	-	-	-	2	-	-	2
72	-	-	-	-	-	-	-	3	1	-	4
74	-	-	-	-	-	-	-	-	-	-	-
76	-	-	-	-	-	-	-	-	-	1	1
78	-	-	-	-	-	-	-	-	-	1	1
80	-	-	-	-	-	-	-	-	-	1	1
No. of Comm. Samples - 5											
Total	2	26	37	33	35	17	17	18	1	4	190

Year: 1972		Country: Canada (M & Q)		Species: Haddock							
Quarter: 2nd		Gear: Otter trawl		Division: 4W							
Structures used in aging: Otoliths		Reported by: Halliday & Fitzgerald									
(2 cm)	Age										Total
Length	3	4	5	6	7	8	9	10	11		
36	1	-	-	-	-	-	-	-	-	-	1
38	2	-	-	-	-	-	-	-	-	-	2
40	2	-	-	-	-	-	-	-	-	-	2
42	2	-	-	-	-	-	-	-	-	-	2
44	-	2	-	-	-	-	-	-	-	-	2
46	-	1	1	-	-	-	-	-	-	-	2
48	-	-	2	-	-	-	-	-	-	-	2
50	-	-	2	-	-	-	-	-	-	-	2
52	-	-	2	-	-	-	-	-	-	-	2
54	-	-	1	-	1	-	-	-	-	-	2
56	-	-	1	-	1	-	-	-	-	-	2
58	-	-	-	1	-	1	-	-	-	-	2
60	-	-	-	1	-	1	-	-	-	-	2
62	-	-	-	1	1	-	-	-	-	-	2
64	-	-	-	-	-	1	1	-	-	-	2
66	-	-	-	-	-	-	-	1	1	-	2
No. of Comm. Samples - 1											
Total	7	3	9	3	3	3	1	-	1		30

Year: 1972		Country: Canada (M & Q)		Species: Haddock							
Quarter: 4th		Gear: Otter trawl		Division: 4W							
Structures used in aging: Otoliths		Reported by: Halliday & Fitzgerald									
(2 cm)	Age										Total
Length	3	4	5	6	7	8	9	10	11		
36	2	-	-	-	-	-	-	-	-	-	2
38	2	-	-	-	-	-	-	-	-	-	2
40	2	-	-	-	-	-	-	-	-	-	2
42	2	-	-	-	-	-	-	-	-	-	2
44	2	-	-	-	-	-	-	-	-	-	2
46	2	-	-	-	-	-	-	-	-	-	2
48	1	1	-	-	-	-	-	-	-	-	2
50	-	2	-	-	-	-	-	-	-	-	2
52	-	1	-	1	-	-	-	-	-	-	2
54	-	-	2	-	-	-	-	-	-	-	2
56	-	-	2	-	-	-	-	-	-	-	2
58	-	-	-	1	1	-	-	-	-	-	2
60	-	-	-	1	1	-	-	-	-	-	2
62	-	-	-	1	-	1	-	-	-	-	2
64	-	-	-	1	1	-	-	-	-	-	2
66	-	-	-	-	1	1	-	-	-	-	2
68	-	-	-	-	-	-	1	-	-	-	1
70	-	-	-	-	-	-	-	1	-	-	1
72	-	-	-	-	-	-	-	-	-	-	-
74	-	-	-	-	-	-	-	-	1	-	1
No. of Comm. Samples - 1											
Total	13	4	4	5	4	2	1	1	1		35

Year: 1972		Country: Canada (M & Q)		Species: Haddock						
Quarter: 3rd		Gear: Longline		Division: 4W						
Structures used in aging: Otoliths		Reported by: Halliday & Fitzgerald								
(2 cm)	Age								Total	
Length	4	5	6	7	8	9	10	11	12	
54	1	1	-	-	-	-	-	-	-	2
56	-	2	-	-	-	-	-	-	-	2
58	-	-	1	1	-	-	-	-	-	2
60	-	-	-	1	1	-	-	-	-	2
62	-	-	-	-	1	1	-	-	-	2
64	-	-	-	-	2	-	-	-	-	2
66	-	-	-	-	1	1	-	-	-	2
68	-	-	-	-	-	2	-	-	-	2
70	-	-	-	-	-	2	-	-	-	2
72	-	-	1	-	-	1	-	-	-	2
74	-	-	-	-	-	2	-	-	-	2
76	-	-	-	-	-	1	1	-	-	2
78	-	-	-	-	-	-	1	1	-	2
80	-	-	-	-	-	1	-	1	-	2
82	-	-	-	-	-	-	-	1	-	1
84	-	-	-	-	-	-	-	-	1	1
No. of Comm. Samples - 1										
Total	1	3	2	2	5	11	2	3	1	30

Year: 1972		Country: Canada (M & Q)		Species: Haddock						
Quarter: 4th		Gear: Longline		Division: 4W						
Structures used in aging: Otoliths		Reported by: Halliday & Fitzgerald								
(2 cm)	Age								Total	
Length	3	4	5	6	7	8	9	10		
42	1	-	-	-	-	-	-	-	-	1
44	1	-	-	-	-	-	-	-	-	2
46	-	2	-	-	-	-	-	-	-	2
48	-	2	-	-	-	-	-	-	-	2
50	-	-	2	-	-	-	-	-	-	2
52	-	-	2	-	-	-	-	-	-	2
54	-	1	-	1	-	-	-	-	-	2
56	-	-	1	-	1	-	-	-	-	2
58	-	-	-	2	-	-	-	-	-	2
60	-	-	-	-	2	-	-	-	-	2
62	-	-	-	-	1	-	1	-	-	2
64	-	-	-	-	1	1	-	-	-	2
66	-	-	-	-	-	-	2	-	-	2
68	-	-	-	-	-	1	1	-	-	2
70	-	-	-	-	-	-	1	-	-	1
72	-	-	-	-	-	-	-	1	-	1
74	-	-	-	-	-	-	-	1	-	1
No. of Comm. Samples - 1										
Total	2	5	5	3	5	2	6	1		29

Year: 1972		Country: USA		Species: Haddock							
Quarter: 1st		Gear: Otter trawl		Division: 5Ze							
Structures used in aging: Scales				Reported by: G. Waring							
(2 cm) Length	Age										Total
	3	4	5	6	7	8	9	10	11	12	
42	2	-	-	-	-	-	-	-	-	-	2
44	1	-	-	-	-	-	-	-	-	-	1
46	5	-	-	-	-	-	-	-	-	-	5
48	9	1	-	-	-	-	-	-	-	-	10
50	17	3	-	-	-	-	-	-	-	-	20
52	7	1	1	1	-	1	-	-	-	-	11
54	3	-	-	1	-	1	2	-	-	-	7
56	5	-	-	1	1	-	2	-	-	-	9
58	1	-	-	3	-	-	6	-	-	-	10
60	-	-	-	3	1	1	6	3	-	-	14
62	1	-	-	3	1	-	12	3	1	-	21
64	-	1	-	3	-	-	15	3	2	-	24
66	-	-	-	1	1	3	25	2	-	2	34
68	-	-	-	2	1	-	19	4	1	3	30
70	-	-	-	-	1	1	9	11	2	1	25
72	-	-	-	1	-	-	9	3	3	1	16
74	-	-	1	1	-	-	9	2	-	-	13
76	-	-	-	-	-	-	2	5	-	-	7
78	-	-	-	-	-	-	-	2	-	-	2
80	-	-	-	-	-	-	-	1	-	1	2
82	-	-	-	-	-	-	-	-	1	1	2
82	-	-	-	-	-	-	-	-	1	1	2
No. of Comm. Samples - 14											
Total	51	6	2	20	6	7	116	39	10	8	265

Year: 1972		Country: USA		Species: Haddock							
Quarter: 2nd		Gear: Otter trawl		Division: 5Ze							
Structures used in aging: Scales				Reported by: G. Waring							
(2 cm) Length	Age										Total
	3	4	5	6	7	8	9	10	11	12	
42	2	-	-	-	-	-	-	-	-	-	2
44	7	-	-	-	-	-	-	-	-	-	7
46	8	-	-	-	-	-	-	-	-	-	8
48	26	1	-	-	-	-	-	-	-	-	27
50	34	3	-	-	-	-	-	-	-	-	37
52	22	3	1	1	-	-	1	-	-	-	28
54	7	4	4	2	-	-	-	1	-	-	18
56	8	2	-	2	2	-	2	-	-	-	16
58	1	-	-	2	3	-	3	-	-	-	9
60	-	2	1	4	2	-	11	1	-	-	21
62	1	4	-	4	3	2	16	2	1	-	33
64	-	1	1	7	4	1	23	3	-	-	40
66	-	-	-	5	5	1	17	8	1	1	38
68	-	-	-	1	2	3	25	5	1	1	38
70	-	-	-	1	2	4	28	5	2	5	47
72	-	-	-	1	2	-	24	5	1	3	36
74	-	-	-	2	2	2	7	5	-	-	18
76	-	-	-	-	1	0	7	4	2	3	17
78	-	-	-	-	-	1	3	3	-	1	8
80	-	-	-	-	-	-	2	2	-	-	4
82	-	-	-	-	-	-	-	1	-	-	1
84	-	-	-	-	-	-	-	-	1	-	1
No. of Comm. Samples - 24											
Total	116	20	7	32	28	14	169	45	8	15	454

Year: 1972		Country: USA		Species: Haddock							
Quarter: 3rd		Gear: Otter trawl		Division: 5Ze							
Structures used in aging: Scales				Reported by: G. Waring							
(2 cm) Length	Age										Total
	3	4	5	6	7	8	9	10	11	12	
50	1	-	-	-	-	-	-	-	-	-	1
52	6	-	-	-	-	-	-	-	-	-	6
54	4	2	-	-	-	-	-	-	-	-	6
56	8	3	-	-	-	-	-	-	-	-	11
58	7	-	2	-	1	-	1	-	-	-	11
60	3	1	1	-	1	-	2	1	-	-	9
62	2	1	-	-	-	-	2	2	-	-	7
64	1	1	-	2	-	-	7	-	1	-	12
66	-	-	-	1	1	1	5	3	3	-	14
68	-	-	1	1	-	-	11	1	-	-	14
70	-	-	2	2	2	2	7	5	1	1	20
72	-	-	-	-	-	4	11	2	1	-	18
74	-	-	-	-	-	-	5	1	2	2	10
76	-	-	-	-	-	-	1	3	1	-	5
78	-	-	-	-	-	-	3	3	-	1	7
80	-	-	-	-	-	-	-	1	1	1	3
82	-	-	-	-	-	-	1	-	-	-	1
--	-	-	-	-	-	-	-	-	-	-	-
88	-	-	-	-	-	-	-	-	1	-	1
No. of Comm. Samples - 8											
Total	32	8	4	6	5	7	56	22	10	6	156

Year: 1972		Country: USA		Species: Haddock									
Quarter: 4th		Gear: Otter trawl		Division: 5Ze									
Structures used in aging: Scales				Reported by: G. Waring									
(2 cm) Length	Age										Total		
	1	2	3	4	5	6	7	8	9	10	11	12	
30	1	-	-	-	-	-	-	-	-	-	-	-	1
32	3	-	-	-	-	-	-	-	-	-	-	-	3
34	9	-	-	-	-	-	-	-	-	-	-	-	9
36	18	-	-	-	-	-	-	-	-	-	-	-	18
38	20	-	-	-	-	-	-	-	-	-	-	-	20
40	16	-	-	-	-	-	-	-	-	-	-	-	16
42	7	-	-	-	-	-	-	-	-	-	-	-	7
44	1	-	-	-	-	-	-	-	-	-	-	-	1
46	2	-	1	-	-	-	-	-	-	-	-	-	3
48	-	-	1	-	-	-	-	-	-	-	-	-	1
50	-	-	2	-	-	-	-	-	1	-	-	-	3
52	-	-	7	4	-	-	-	-	-	-	-	-	11
54	-	-	10	2	-	-	-	-	-	-	-	-	12
56	-	-	20	-	-	-	-	-	1	-	-	-	21
58	-	-	2	1	-	-	-	-	1	-	-	-	4
60	-	-	9	-	-	-	-	1	2	1	-	-	13
62	-	-	4	-	-	-	-	1	1	1	-	-	8
64	-	-	-	-	-	-	-	-	2	1	-	-	3
66	-	-	-	-	-	-	-	-	2	3	-	-	5
68	-	-	-	-	-	-	-	1	5	1	-	-	7
70	-	-	-	-	1	1	-	8	1	1	1	1	13
72	-	-	-	-	-	-	-	6	-	1	1	-	8
74	-	-	-	-	-	-	-	4	2	2	1	-	9
76	-	-	-	-	-	-	-	8	4	1	3	-	16
78	-	-	-	-	-	-	-	3	2	1	-	-	6
80	-	-	-	-	-	-	-	-	-	1	-	-	1
--	-	-	-	-	-	-	-	-	-	-	-	-	-
86	-	-	-	-	-	-	-	-	1	-	-	-	1
No. of Comm. Samples - ?													
Total	77	-	56	7	-	1	2	5	45	14	7	6	220

Year: 1972		Country: USSR		Species: Silver hake		
Quarter: 1st		Gear: Otter trawl		Division: 4V		
Structures used in aging: Otoliths		Reported by: A.S. Noskov & V.N. Efanov				
(2 cm)	Age					Total
Length	2	3	4	5		
26	1	7	-	-		8
28	-	10	13	-		23
30	-	6	32	-		38
32	-	-	2	7		9
(♂♂)						
No. of Comm. Samples - 1						
Total	1	23	47	7		78

Year: 1972		Country: USSR		Species: Silver hake		
Quarter: 1st		Gear: Otter trawl		Division: 4V		
Structures used in aging: Otoliths		Reported by: A.S. Noskov & V.N. Efanov				
(2 cm)	Age					Total
Length	2	3	4	5		
26	-	1	-	-		1
28	-	1	2	-		3
30	-	-	3	1		4
32	-	-	2	1		3
(♀♀)						
No. of Comm. Samples - 1						
Total	-	2	7	2		11

Year: 1972		Country: USSR		Species: Silver hake		
Quarter: 1st		Gear: Otter trawl		Division: 4W		
Structures used in aging: Otoliths		Reported by: A.S. Noskov & V.N. Efanov				
(2 cm) Length	Age					Total
	2	3	4	5	6	
22	7	-	-	-	-	7
24	17	4	-	-	-	21
26	20	28	-	-	-	48
28	-	8	11	-	-	19
30	-	4	27	-	-	31
32	-	-	5	3	1	9
34	-	-	-	1	-	1
36	-	-	-	1	-	1
(♂♂)						
No. of Comm Samples - 3						
Total	44	44	43	5	1	137

Year: 1972		Country: USSR		Species: Silver hake		
Quarter: 1st		Gear: Otter trawl		Division: 4W		
Structures used in aging: Otoliths		Reported by: A.S. Noskov & V.N. Efanov				
(2 cm) Length	Age					Total
	2	3	4	5	6	
24	18	3	-	-	-	21
26	12	22	-	-	-	34
28	1	7	5	-	-	13
30	-	5	19	1	-	25
32	-	1	11	7	-	19
34	-	-	1	6	2	9
36	-	-	-	1	1	2
(♀♀)						
No. of Comm. Samples - 3						
Total	31	38	36	15	3	123

Year: 1972		Country: USSR		Species: Silver hake		
Quarter: 2nd		Gear: Otter trawl		Division: 4W		
Structures used in aging: Otoliths		Reported by: A.S. Noskov & V.N. Efanov				
(2 cm) Length	Age					Total
	1	2	3	4	5	6
18	1	-	-	-	-	-
20	-	-	-	-	-	-
22	-	3	-	-	-	-
24	-	14	2	-	-	-
26	-	10	32	2	-	-
28	-	-	36	14	-	-
30	-	-	8	16	8	-
32	-	-	-	7	19	2
34	-	-	-	-	4	-
(♂♂)						
No. of Comm. Samples - 4						
Total	1	27	78	39	31	2

Year: 1972		Country: USSR		Species: Silver hake			
Quarter: 2nd		Gear: Otter trawl		Division: 4W			
Structures used in aging: Otoliths		Reported by: A.S. Noskov & V.N. Efanov					
(2 cm) Length	Age						Total
	1	2	3	4	5	6	7
18	1	-	-	-	-	-	-
20	-	2	-	-	-	-	-
22	-	4	-	-	-	-	-
24	-	16	2	-	-	-	-
26	-	10	27	-	-	-	-
28	-	-	36	9	-	-	-
30	-	-	14	16	-	-	-
32	-	-	2	17	15	-	-
34	-	-	-	5	16	5	-
36	-	-	-	-	2	4	-
38	-	-	-	-	-	2	2
40	-	-	-	-	-	-	4
(♀♀)							
No. of Comm. Samples - 4							
Total	1	32	81	47	33	11	6

Year: 1972		Country: USSR		Species: Silver hake							
Quarter: 1st		Gear: Otter trawl		Division: 5Ze							
Structures used in aging: Otoliths		Reported by: A.S. Noskov & V.N. Efanov									
(2 cm) Length	Age										Total
	3	4	5	6	7	8	9	10	11		
24	2	-	-	-	-	-	-	-	-	-	2
26	9	-	-	-	-	-	-	-	-	-	9
28	7	9	-	-	-	-	-	-	-	-	16
30	3	12	-	-	-	-	-	-	-	-	15
32	-	1	4	-	-	-	-	-	-	-	5
34	-	-	1	-	-	-	-	-	-	-	1
36	-	-	1	-	-	-	-	-	-	-	1
38	-	-	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	1	-	-	-	-	1
42	-	-	-	-	-	-	-	-	-	-	-
44	-	-	-	-	-	1	-	-	-	-	1
46	-	-	-	-	-	1	-	-	-	-	1
--	-	-	-	-	-	-	-	-	-	-	-
54	-	-	-	-	-	-	-	-	1	-	1
Total	21	22	6	-	-	3	-	-	1		53

(♂)

No. of Comm. Samples - 2

Year: 1972		Country: USSR		Species: Silver hake							
Quarter: 1st		Gear: Otter trawl		Division: 5Ze							
Structures used in aging: Otoliths		Reported by: A.S. Noskov & V.N. Efanov									
(2 cm) Length	Age										Total
	3	4	5	6	7	8	9	10	11		
26	3	-	-	-	-	-	-	-	-	-	3
28	8	5	-	-	-	-	-	-	-	-	13
30	6	14	-	-	-	-	-	-	-	-	20
32	-	13	6	-	-	-	-	-	-	-	19
34	-	1	13	-	-	-	-	-	-	-	14
36	-	-	6	3	-	-	-	-	-	-	9
38	-	-	-	6	6	-	-	-	-	-	12
40	-	-	-	2	8	2	-	-	-	-	12
42	-	-	-	1	4	-	1	-	-	-	6
44	-	-	-	-	1	4	1	-	-	-	6
46	-	-	-	-	-	2	-	-	-	-	2
48	-	-	-	-	-	-	3	1	-	-	4
50	-	-	-	-	-	-	-	3	-	-	3
52	-	-	-	-	-	-	-	2	2	-	4
54	-	-	-	-	-	-	-	-	1	-	1
Total	17	33	25	12	19	8	5	6	3		128

(♀)

No. of Comm. Samples - 2

Year: 1972		Country: USSR		Species: Silver hake		
Quarter: 2nd		Gear: Otter trawl		Division: 5Ze		
Structures used in aging: Otoliths		Reported by: A.S. Noskov & V.N. Efanov				
(2 cm) Length	Age					Total
	3	4	5	6	7	
28	5	8	-	-	-	13
30	-	42	1	-	-	43
32	-	14	9	-	-	23
34	-	9	8	3	-	20
36	-	-	-	1	1	2
38	-	-	-	1	-	1
Total	5	73	18	5	1	102

(♂)

No. of Comm. Samples - 2

Year: 1972		Country: USSR		Species: Silver hake			
Quarter: 2nd		Gear: Otter trawl		Division: 5Ze			
Structures used in aging: Otoliths		Reported by: A.S. Noskov & V.N. Efanov					
(2 cm) Length	Age						Total
	3	4	5	6	7	8	
28	-	1	-	-	-	-	1
30	-	9	-	-	-	-	9
32	-	15	6	-	-	-	21
34	-	10	17	-	-	-	27
36	-	-	6	10	1	-	17
38	-	-	3	4	4	-	11
40	-	-	-	3	4	1	8
42	-	-	-	-	3	-	3
44	-	-	-	-	-	-	-
46	-	-	-	-	-	1	1
Total	-	35	32	17	12	2	98

(♀)

No. of Comm. Samples - 2

Year: 1972		Country: USSR				Species: Silver hake	
Quarter: 1st		Gear: Otter trawl				Division: SA 6	
Structures used in aging: Otoliths				Reported by: A.S. Noskov & V.N. Efanov			
(2 cm) Length	Age				Total		
	3	4	5	6			
24	1	-	-	-	1		
26	3	-	-	-	3		
28	7	11	-	-	18		
30	-	8	-	-	8		
32	-	3	3	1	7		
34	-	-	2	-	2		
36	-	-	-	1	1		
(♂♂)							
No. of Comm. Samples - 1							
Total	11	22	5	2	40		

Year: 1972		Country: USSR				Species: Silver hake	
Quarter: 1st		Gear: Otter trawl				Division: SA 6	
Structures used in aging: Otoliths				Reported by: A.S. Noskov & V.N. Efanov			
(2 cm) Length	Age				Total		
	3	4	5				
28	5	5	-		10		
30	2	12	-		14		
32	-	4	8		12		
34	-	-	3		3		
(♀♀)							
No. of Comm. Samples - 1							
Total	7	21	11		39		

Year: 1972		Country: USSR							Species: Silver hake	
Quarter: 2nd		Gear: Otter trawl							Division: SA 6	
Structures used in aging: Otoliths				Reported by: A.S. Noskov & V.N. Efanov						
(2 cm) Length	Age							Total		
	2	3	4	5	6	7	8	9		
26	2	20	4	-	-	-	-	-	26	
28	-	35	32	-	-	-	-	-	67	
30	-	24	74	6	-	-	-	-	104	
32	-	2	23	23	1	-	-	-	49	
34	-	-	2	10	8	-	-	-	20	
36	-	-	-	3	7	-	-	-	10	
38	-	-	-	-	4	-	-	-	4	
52	-	-	-	-	-	-	-	1	1	
(♂♂)										
No. of Comm. Samples - 4										
Total	2	81	135	42	20	-	-	1	281	

Year: 1972		Country: USSR							Species: Silver hake	
Quarter: 2nd		Gear: Otter trawl							Division: SA 6	
Structures used in aging: Otoliths				Reported by: A.S. Noskov & V.N. Efanov						
(2 cm) Length	Age							Total		
	2	3	4	5	6	7	8	9		
24	4	1	-	-	-	-	-	-	5	
26	-	6	1	-	-	-	-	-	7	
28	-	17	5	-	-	-	-	-	22	
30	-	12	11	-	-	-	-	-	23	
32	-	1	20	4	-	-	-	-	25	
34	-	-	2	7	3	-	-	-	12	
36	-	-	-	2	2	-	-	-	4	
38	-	-	-	-	1	1	-	-	2	
40	-	-	-	-	-	3	-	-	3	
42	-	-	-	-	-	1	-	-	1	
44	-	-	-	-	-	-	-	-	-	
46	-	-	-	-	-	-	1	-	1	
48	-	-	-	-	-	-	-	-	-	
50	-	-	-	-	-	-	1	2	3	
(♀♀)										
No. of Comm. Samples - 4										
Total	4	37	39	13	6	5	2	2	108	

Year: 1972		Country: USSR		Species: Red hake				
Quarter: 1st		Gear: Otter trawl		Division: 5Ze				
Structures used in aging: Otoliths		Reported by: A.S. Noskov & V.A. Richter						
(2 cm)	Age						Total	
Length	2	3	4	5	6	7		8
26	1	3	-	-	-	-	-	4
28	3	11	-	-	-	-	-	14
30	-	39	8	-	-	-	-	47
32	-	2	37	1	-	-	-	40
34	-	-	7	5	1	-	-	13
36	-	-	-	3	1	-	-	4
38	-	-	-	2	2	-	-	4
40	-	-	-	-	-	-	-	-
42	-	-	-	-	-	-	1	1
44	-	-	-	-	-	-	1	1
(♂♂)								
No. of Comm. Samples - 2								
Total	4	55	52	11	4	-	2	128

Year: 1972		Country: USSR		Species: Red hake				
Quarter: 1st		Gear: Otter trawl		Division: 5Ze				
Structures used in aging: Otoliths		Reported by: A.S. Noskov & V.A. Richter						
(2 cm)	Age						Total	
Length	2	3	4	5	6	7		8
26	-	1	-	-	-	-	-	1
28	-	3	-	-	-	-	-	3
30	-	7	1	-	-	-	-	8
32	1	9	9	-	-	-	-	19
34	-	-	5	4	-	-	-	9
36	-	-	-	5	-	-	-	5
38	-	-	-	3	-	-	-	3
40	-	-	-	-	1	-	-	1
42	-	-	-	-	1	-	-	1
44	-	-	-	-	-	-	-	-
46	-	-	-	-	-	1	-	1
48	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-
52	-	-	-	-	-	1	-	1
54	-	-	-	-	-	-	-	-
56	-	-	-	-	-	-	-	-
58	-	-	-	-	-	-	1	1
(♀♀)								
No. of Comm. Samples - 2								
Total	1	20	15	12	2	2	1	53

Year: 1972		Country: USSR		Species: Red hake				
Quarter: 2nd		Gear: Otter trawl		Division: 5Ze				
Structures used in aging: Otoliths		Reported by: A.S. Noskov & V.A. Richter						
(2 cm)	Age						Total	
Length	2	3	4	5	6	7		
20	1	-	-	-	-	-	1	
22	1	-	-	-	-	-	1	
24	3	-	-	-	-	-	3	
26	16	-	-	-	-	-	16	
28	8	14	-	-	-	-	22	
30	-	68	-	-	-	-	68	
32	-	25	59	1	-	-	85	
34	-	-	21	32	3	-	56	
36	-	-	-	5	10	2	17	
38	-	-	-	-	1	1	2	
40	-	-	-	-	-	1	1	
(♂♂)								
No. of Comm. Samples - 6								
Total	29	107	80	38	14	4	272	

Year: 1972		Country: USSR		Species: Red hake				
Quarter: 2nd		Gear: Otter trawl		Division: 5Ze				
Structures used in aging: Otoliths		Reported by: A.S. Noskov & V.A. Richter						
(2 cm)	Age						Total	
Length	2	3	4	5	6	7		8	9
22	1	-	-	-	-	-	-	1
24	4	-	-	-	-	-	-	4
26	13	1	-	-	-	-	-	14
28	20	26	-	-	-	-	-	46
30	-	67	2	-	-	-	-	69
32	-	35	36	-	-	-	-	71
34	-	1	37	14	-	-	-	52
36	-	-	1	16	14	1	-	32
38	-	-	-	-	6	6	1	13
40	-	-	-	-	2	7	2	11
42	-	-	-	-	2	1	-	3
44	-	-	-	-	-	-	-	-
46	-	-	-	-	-	-	-	-
48	-	-	-	-	-	-	1	1
(♀♀)								
No. of Comm. Samples - 6								
Total	38	130	76	30	22	16	4	317

Year: 1972		Country: USSR		Species: Red hake				
Quarter: 3rd		Gear: Otter trawl		Division: 5Ze				
Structures used in aging: Otoliths		Reported by: A.S. Noskov & V.A. Richter						
(2 cm)	Age						Total	
Length	2	3	4	5	6	7		8
20	2	-	-	-	-	-	-	2
22	4	-	-	-	-	-	-	4
24	13	-	-	-	-	-	-	13
26	11	6	-	-	-	-	-	17
28	3	26	-	-	-	-	-	29
30	-	68	5	-	-	-	-	73
32	-	9	32	1	-	-	-	42
34	-	-	13	17	1	-	-	31
36	-	-	-	5	13	3	-	21
38	-	-	-	1	2	3	1	7
40	-	-	-	-	-	-	1	1
(♂)								
No. of Comm. Samples - 5								
Total	33	109	50	24	16	6	2	240

Year: 1972		Country: USSR		Species: Red hake					
Quarter: 3rd		Gear: Otter trawl		Division: 5Ze					
Structures used in aging: Otoliths		Reported by: A.S. Noskov & V.A. Richter							
(2 cm)	Age								Total
Length	2	3	4	5	6	7	8	9	
18	1	-	-	-	-	-	-	-	1
20	2	-	-	-	-	-	-	-	2
22	2	-	-	-	-	-	-	-	2
24	7	1	-	-	-	-	-	-	8
26	6	4	-	-	-	-	-	-	10
28	-	18	-	-	-	-	-	-	18
30	-	28	-	-	-	-	-	-	28
32	-	7	27	-	-	-	-	-	34
34	-	6	26	10	3	-	-	-	45
36	-	-	6	10	4	2	-	-	22
38	-	-	-	2	3	3	-	-	8
40	-	-	-	2	1	1	1	-	5
42	-	-	-	-	-	1	2	1	4
44	-	-	-	-	-	-	1	-	1
46	-	-	-	-	-	-	1	1	2
48	-	-	-	-	-	-	1	1	2
50	-	-	-	-	-	-	1	-	1
(♀)									
No. of Comm. Samples - 5									
Total	18	64	59	24	11	7	7	3	193

Year: 1972		Country: USSR		Species: Red hake		
Quarter: 4th		Gear: Otter trawl		Division: 5Ze		
Structures used in aging: Otoliths		Reported by: A.S. Noskov & V.A. Richter				
(2 cm)	Age					Total
Length	2	3	4	5	6	
20	2	-	-	-	-	2
22	1	-	-	-	-	1
24	6	-	-	-	-	6
26	1	1	-	-	-	2
28	-	-	-	-	-	-
30	-	7	-	-	-	7
32	-	3	8	-	-	11
34	-	-	1	-	-	1
36	-	-	-	-	2	2
38	-	-	-	-	1	1
(♂)						
No. of Comm. Samples - 1						
Total	10	11	9	-	3	33

Year: 1972		Country: USSR		Species: Red hake			
Quarter: 4th		Gear: Otter trawl		Division: 5Ze			
Structures used in aging: Otoliths		Reported by: A.S. Noskov & V.A. Richter					
(2 cm)	Age						Total
Length	2	3	4	5	6	7	
20	2	-	-	-	-	-	2
22	-	-	-	-	-	-	-
24	3	-	-	-	-	-	3
26	6	1	-	-	-	-	7
28	-	11	-	-	-	-	11
30	-	8	2	-	-	-	10
32	-	3	7	-	-	-	10
34	-	-	5	3	-	-	8
36	-	-	-	3	2	-	5
38	-	-	-	3	1	-	4
40	-	-	-	-	-	1	1
(♀)							
No. of Comm. Samples - 1							
Total	11	23	14	9	3	1	61

Year: 1972		Country: USSR		Species: Red hake			
Quarter: 3rd		Gear: Otter trawl		Division: 5Zw			
Structures used in aging: Otoliths		Reported by: A.S. Noskov & V.A. Richter					
(2 cm) Length	Age					Total	
	2	3	4	5	6	7	
18	1	-	-	-	-	-	1
20	-	-	-	-	-	-	-
22	1	-	-	-	-	-	1
24	-	-	-	-	-	-	-
26	9	5	-	-	-	-	14
28	4	12	-	-	-	-	16
30	-	23	1	-	-	-	24
32	-	5	11	-	-	-	16
34	-	-	3	4	1	-	8
36	-	-	-	-	1	-	1
38	-	-	-	-	-	-	-
40	-	-	-	-	-	1	1
Total	15	45	15	4	2	1	82

(♂)

No. of Comm. Samples - 2

Year: 1972		Country: USSR		Species: Red hake				
Quarter: 3rd		Gear: Otter trawl		Division: 5Zw				
Structures used in aging: Otoliths		Reported by: A.S. Noskov & V.A. Richter						
(2 cm) Length	Age							Total
	2	3	4	5	6	7	8	
18	1	-	-	-	-	-	-	1
20	-	-	-	-	-	-	-	-
22	-	-	-	-	-	-	-	-
24	-	-	-	-	-	-	-	-
26	5	3	-	-	-	-	-	8
28	1	15	-	-	-	-	-	16
30	-	18	2	-	-	-	-	20
32	-	8	11	2	-	-	-	21
34	-	-	15	5	-	-	-	20
36	-	-	3	12	2	-	-	17
38	-	-	-	1	3	1	2	7
40	-	-	-	-	-	-	-	-
42	-	-	-	-	-	1	-	1
Total	7	44	31	20	5	2	2	111

(♀)

No. of Comm. Samples - 2

Year: 1972		Country: USSR		Species: Red hake		
Quarter: 1st		Gear: Otter trawl		Division: SA 6		
Structures used in aging: Otoliths		Reported by: A.S. Noskov & V.A. Richter				
(2 cm) Length	Age					Total
	2	3	4	5	6	
20	2	-	-	-	-	2
22	7	2	-	-	-	9
24	37	8	-	-	-	45
26	19	12	-	-	-	31
28	18	21	1	-	-	40
30	4	17	8	-	-	29
32	-	3	6	1	-	10
34	-	-	4	-	1	5
Total	87	63	19	1	1	171

(♂)

No. of Comm. Samples - 3

Year: 1972		Country: USSR		Species: Red hake		
Quarter: 1st		Gear: Otter trawl		Division: SA 6		
Structures used in aging: Otoliths		Reported by: A.S. Noskov & V.A. Richter				
(2 cm) Length	Age					Total
	2	3	4	5		
20	1	-	-	-	1	
22	4	-	-	-	4	
24	20	2	-	-	22	
26	13	5	-	-	18	
28	4	9	-	-	13	
30	-	12	4	1	17	
32	-	3	6	-	9	
34	-	1	4	2	7	
36	-	-	-	-	-	
38	-	-	-	1	1	
Total	42	32	14	4	92	

(♀)

No. of Comm. Samples - 3

Year: 1972		Country: USSR		Species: Red hake				
Quarter: 3rd		Gear: Otter trawl		Division: SA 6				
Structures used in aging: Otoliths		Reported by: A.S. Noskov & V.A. Richter						
(2 cm) Length	Age							Total
	2	3	4	5	6	7	8	
22	7	-	-	-	-	-	-	7
24	11	-	-	-	-	-	-	11
26	18	3	-	-	-	-	-	21
28	3	35	-	-	-	-	-	38
30	-	35	3	-	-	-	-	38
32	-	7	27	1	-	-	-	35
34	-	-	11	7	1	-	-	19
36	-	-	1	1	5	3	-	10
38	-	-	-	-	-	-	1	1
40	-	-	-	-	-	1	-	1
Total	39	80	42	9	6	4	1	181

(♂♂)

No. of Comm. Samples - 2

Year: 1972		Country: USSR		Species: Red hake		
Quarter: 3rd		Gear: Otter trawl		Division: SA 6		
Structures used in aging: Otoliths		Reported by: A.S. Noskov & V.A. Richter				
(2 cm) Length	Age					Total
	2	3	4	5	6	
24	2	-	-	-	-	2
26	-	-	-	-	-	-
28	-	-	-	-	-	-
30	-	2	1	-	-	3
32	-	1	1	-	-	2
34	-	-	-	-	-	-
36	-	-	-	1	2	3
38	-	-	-	-	2	2
Total	2	3	2	1	4	12

(♀♀)

No. of Comm. Samples - 2

Year: 1972		Country: USSR		Species: Red hake	
Quarter: 4th		Gear: Otter trawl		Division: SA 6	
Structures used in aging: Otoliths		Reported by: A.S. Noskov & V.A. Richter			
(2 cm) Length	Age			Total	
	2	3	4		
22	4	-	-	4	
24	13	-	-	13	
26	2	5	-	7	
28	2	5	-	7	
30	-	5	-	5	
32	-	1	2	3	
34	-	-	1	1	
Total	21	16	3	40	

(♂♂)

No. of Comm. Samples - 1

Year: 1972		Country: USSR		Species: Red hake	
Quarter: 4th		Gear: Otter trawl		Division: SA 6	
Structures used in aging: Otoliths		Reported by: A.S. Noskov & V.A. Richter			
(2 cm) Length	Age			Total	
	2	3	4		
22	3	-	-	3	
24	18	-	-	18	
26	10	3	-	13	
28	1	9	-	10	
30	-	10	-	10	
32	-	1	-	1	
34	-	-	1	1	
Total	32	23	1	56	

(♀♀)

No. of Comm. Samples - 1

Year: 1972		Country: Canada (M & Q)		Species: Pollock													
Quarter: 2nd		Gear: Otter trawl		Division: 4X													
Structures used in aging: Otoliths			Reported by: Halliday & Fitzgerald														
Length	Age																Total
	3	4	5	6	7	8	9	10	11	12	13	14	15	16			
46	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	
49	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	3	
52	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	3	
55	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
58	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	5	
61	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	5	
64	-	5	2	-	-	-	-	-	-	-	-	-	-	-	-	7	
67	-	1	6	1	-	-	-	-	-	-	-	-	-	-	-	8	
70	-	-	6	2	-	-	-	-	-	-	-	-	-	-	-	8	
73	-	1	5	3	-	-	-	-	-	-	-	-	-	-	-	9	
76	-	-	2	4	2	-	-	-	-	-	-	-	-	-	-	8	
79	-	-	-	4	4	2	-	-	-	-	-	-	-	-	-	10	
82	-	-	-	2	2	-	1	-	1	-	-	-	-	-	-	6	
85	-	-	-	-	2	1	3	1	-	-	-	-	-	-	-	7	
88	-	-	-	1	2	1	-	1	1	1	1	-	-	-	-	8	
91	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
94	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
97	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	2	
100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
103	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
106	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	
No. of Comm. Samples - 3																	
Total	7	21	21	17	12	5	4	2	2	1	1	2	-	1	-	96	

Year: 1972		Country: Canada (M & Q)		Species: Pollock												
Quarter: 4th		Gear: Otter trawl		Division: 4X												
Structures used in aging: Otoliths			Reported by: Halliday & Fitzgerald													
Length	Age														Total	
	2	3	4	5	6	7	8	9	-	14						
40	3	-	-	-	-	-	-	-	-	-	-	-	-	-	3	
43	5	1	-	-	-	-	-	-	-	-	-	-	-	-	6	
46	2	1	-	-	-	-	-	-	-	-	-	-	-	-	3	
49	1	3	-	-	-	-	-	-	-	-	-	-	-	-	4	
52	-	4	1	-	-	-	-	-	-	-	-	-	-	-	5	
55	-	5	4	-	-	-	-	-	-	-	-	-	-	-	9	
58	-	5	2	-	-	-	-	-	-	-	-	-	-	-	7	
61	-	5	6	-	-	-	-	-	-	-	-	-	-	-	11	
64	-	3	5	1	-	-	-	-	-	-	-	-	-	-	9	
67	-	2	6	-	2	-	-	-	-	-	-	-	-	-	10	
70	-	-	5	2	-	-	-	-	-	-	-	-	-	-	7	
73	-	-	2	3	-	-	-	-	-	-	-	-	-	-	5	
76	-	-	2	2	4	2	-	-	-	-	-	-	-	-	10	
79	-	-	-	5	1	-	-	-	-	-	-	-	-	-	6	
82	-	-	-	3	2	-	-	-	-	-	-	-	-	-	5	
85	-	-	-	2	3	1	-	1	-	-	-	-	-	-	7	
88	-	-	-	-	3	1	-	-	-	-	-	-	-	-	4	
91	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	
No. of Comm. Samples - 4																
Total	11	29	33	18	15	4	-	1	1	-	-	-	-	-	-	112

Year: 1972		Country: Canada (M & Q)		Species: Amer. plaice									
Quarter: 3rd		Gear: Otter trawl		Division: 4T									
Structures used in aging: Otoliths		Reported by: Halliday & Fitzgerald											
(2 cm) Length	Age										Total		
	4	5	6	7	8	9	10	11	12	13	14	15	
26	1	-	-	-	-	-	-	-	-	-	-	-	1
28	1	-	1	-	-	-	-	-	-	-	-	-	2
30	-	-	2	1	1	-	-	-	-	-	-	-	4
32	-	-	1	3	-	-	-	-	-	-	-	-	4
34	-	-	-	-	1	1	1	-	-	-	1	-	4
36	-	-	-	-	-	-	2	-	-	-	-	1	3
38	-	-	1	-	-	-	-	-	-	-	-	-	1
40	-	-	-	-	-	1	1	-	-	-	-	-	2
(♂)													
No. of Comm. Samples - 1													
Total	2	-	5	4	2	1	4	1	-	-	1	1	21

Year: 1972		Country: Canada (M & Q)		Species: Amer. plaice									
Quarter: 3rd		Gear: Otter trawl		Division: 4T									
Structures used in aging: Otoliths		Reported by: Halliday & Fitzgerald											
(2 cm) Length	Age										Total		
	5	6	7	8	9	10	11	12	13	14	15	15+	
26	1	-	-	-	-	-	-	-	-	-	-	-	1
28	-	1	-	-	-	-	-	-	-	-	-	-	1
30	2	2	-	-	-	-	-	-	-	-	-	-	4
32	-	2	1	-	-	-	-	-	-	-	-	-	3
34	-	-	2	1	1	-	-	-	-	-	-	-	4
36	-	1	-	2	1	-	-	-	-	-	-	-	4
38	-	-	-	-	2	2	-	-	-	-	-	-	4
40	-	-	-	-	1	1	-	1	-	-	-	-	3
42	-	-	-	-	-	-	2	1	1	-	-	-	4
44	-	-	-	-	1	-	-	1	1	-	-	-	3
46	-	-	-	-	-	-	1	-	1	-	-	-	2
48	-	-	-	-	-	-	1	-	2	-	1	-	4
50	-	-	-	-	-	-	-	-	-	1	-	1	2
52	-	-	-	-	-	-	-	-	-	-	-	2	2
54	-	-	-	-	-	-	-	-	1	-	-	-	1
(♀♀)													
No. of Comm. Samples - 1													
Total	3	6	3	3	5	4	4	3	6	1	1	3	42

Year: 1972		Country: Canada (M & Q)		Species: Amer. plaice								
Quarter: 4th		Gear: Otter trawl		Division: 4T								
Structures used in aging: Otoliths		Reported by: Halliday & Fitzgerald										
(2 cm) Length	Age										Total	
	5	6	7	8	9	10	11	12				
26	-	1	-	1	-	-	-	-				2
28	-	1	1	-	-	-	-	-				2
30	1	1	-	-	-	-	-	-				2
32	-	-	-	1	-	-	-	1				2
34	-	-	-	-	-	-	-	2				2
36	-	-	-	-	-	-	1	-				1
38	-	-	-	-	-	2	-	-				2
40	-	-	-	-	-	-	1	-				1
(♂)												
No. of Comm. Samples - 1												
Total	1	3	1	2	-	2	1	4				14

Year: 1972		Country: Canada (M & Q)		Species: Amer. plaice									
Quarter: 4th		Gear: Otter trawl		Division: 4T									
Structures used in aging: Otoliths		Reported by: Halliday & Fitzgerald											
(2 cm) Length	Age										Total		
	5	6	7	8	9	10	11	12	13	14	15	15+	
28	-	-	1	-	-	-	-	-	-	-	-	-	1
30	1	-	-	1	-	-	-	-	-	-	-	-	2
32	-	-	-	1	1	-	-	-	-	-	-	-	2
34	-	-	1	-	1	-	-	-	-	-	-	-	2
36	-	-	-	-	-	-	1	-	-	-	-	-	1
38	-	-	-	-	-	1	-	-	-	-	-	-	1
40	-	-	-	-	-	-	1	-	-	-	-	-	1
42	-	-	-	-	-	-	-	-	-	1	-	1	2
44	-	-	-	-	-	-	-	-	-	-	1	-	1
46	-	-	-	-	-	-	-	-	-	1	-	-	1
48	-	-	-	-	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-	-	-	1	1
(♀♀)													
No. of Comm. Samples - 1													
Total	1	-	2	2	2	1	1	1	-	2	-	3	15

Year: 1972		Country: Canada (M & Q)		Species: Amer. plaice								
Quarter: 1st		Gear: Otter trawl		Division: 4Vs								
Structures used in aging: Otoliths		Reported by: Halliday & Fitzgerald										
(2 cm Length)	Age										Total	
	6	7	8	9	10	11	12	13	14	15		15+
30	-	-	-	-	1	-	-	-	-	-	-	1
32	1	-	2	2	-	-	-	-	-	-	-	5
34	-	-	-	5	-	-	-	-	-	-	-	5
36	-	-	-	3	1	-	-	1	-	-	-	5
38	-	-	-	-	-	-	-	1	-	-	-	1
40	-	-	-	1	2	2	2	-	-	-	-	7
42	-	-	-	1	-	1	-	1	-	-	-	3
44	-	-	-	-	-	-	-	-	-	-	-	-
46	-	-	-	-	-	-	-	-	-	-	-	-
48	-	-	-	-	-	-	-	-	-	-	1	1
(♂♂)												
No. of Comm. Samples - 1												
Total	1	-	2	12	4	3	2	3	-	-	1	28

Year: 1972		Country: Canada (M & Q)		Species: Amer. plaice								
Quarter: 1st		Gear: Otter trawl		Division: 4Vs								
Structures used in aging: Otoliths		Reported by: Halliday & Fitzgerald										
(2 cm Length)	Age										Total	
	8	9	10	11	12	13	14	15	15+			
32	-	1	-	-	-	-	-	-	-	-	1	
34	-	-	-	-	-	-	-	-	-	-	-	
36	2	-	-	-	-	-	-	-	-	-	2	
38	-	1	1	1	-	-	-	-	-	-	3	
40	-	-	-	-	-	-	-	-	-	-	-	
42	-	-	2	1	-	-	-	-	-	-	3	
44	-	-	-	2	-	-	-	-	-	-	2	
46	-	-	-	3	-	2	-	-	-	-	5	
48	-	-	-	3	1	1	-	-	2	-	7	
50	-	-	-	1	1	-	-	1	1	-	4	
52	-	-	-	-	-	-	-	-	-	-	-	
54	-	-	-	-	-	-	-	-	4	-	4	
56	-	-	-	-	-	-	-	-	5	-	5	
58	-	-	-	-	-	-	1	-	-	-	1	
60	-	-	-	-	-	-	-	-	3	-	3	
62	-	-	-	-	-	-	-	-	1	-	1	
64	-	-	-	-	-	-	-	-	-	-	-	
66	-	-	-	-	-	-	-	-	1	-	1	
(♀♀)												
No. of Comm. Samples - 1												
Total	2	2	3	11	2	3	1	1	17			42

Year: 1972		Country: Canada (M & Q)		Species: Amer. plaice								
Quarter: 2nd		Gear: Otter trawl		Division: 4Vs								
Structures used in aging: Otoliths		Reported by: Halliday & Fitzgerald										
(2 cm Length)	Age										Total	
	6	7	8	9	10	11	12	13	14	15		15+
32	-	-	1	1	-	-	-	-	-	-	-	2
34	-	1	3	-	-	-	-	-	-	-	-	4
36	1	-	-	1	-	-	-	-	-	-	-	2
38	-	-	1	1	-	2	1	-	-	-	-	5
40	-	-	-	1	1	-	-	-	-	-	-	2
42	-	-	-	1	1	1	1	-	-	-	-	4
44	-	-	-	-	-	-	1	-	-	-	-	1
46	-	-	-	-	-	-	-	-	-	-	-	-
48	-	-	-	-	-	-	1	-	-	-	-	1
50	-	-	-	-	-	-	-	-	-	-	-	-
52	-	-	-	-	-	-	-	-	-	1	-	1
54	-	-	-	-	-	-	-	-	-	-	-	-
56	-	-	-	-	-	-	-	-	-	-	-	-
58	-	-	-	-	-	-	-	-	1	-	-	1
(♂♂)												
No. of Comm. Samples - 1												
Total	1	1	5	4	3	3	2	2	-	1	1	23

Year: 1972		Country: Canada (M & Q)		Species: Amer. plaice								
Quarter: 2nd		Gear: Otter trawl		Division: 4Vs								
Structures used in aging: Otoliths		Reported by: Halliday & Fitzgerald										
(2 cm Length)	Age										Total	
	7	8	9	10	11	12	13	14	15	15+		
34	-	1	1	-	-	-	-	-	-	-	2	
36	-	1	1	1	-	-	-	-	-	-	3	
38	1	-	1	-	-	-	-	-	-	-	2	
40	-	-	1	1	1	-	-	-	-	-	3	
42	-	2	1	1	-	-	-	-	-	-	4	
44	-	-	3	-	-	-	-	-	1	-	4	
46	-	1	-	2	-	1	1	-	-	-	5	
48	-	-	-	-	1	2	-	-	-	1	4	
50	-	-	-	-	-	1	2	1	1	1	5	
52	-	-	-	-	1	1	-	-	-	1	3	
54	-	-	-	-	-	1	-	-	2	3	6	
56	-	-	-	-	-	-	-	-	-	1	1	
(♀♀)												
No. of Comm. Samples - 1												
Total	1	5	5	8	3	5	2	2	4	7		42

Year: 1972		Country: Canada (N)					Species: Amer. plaice				
Quarter: 2nd		Gear: Otter trawl					Division: 3L				
Structures used in aging: Otoliths					Reported by: T.K. Pitt						
(2 cm) Length	Age							Total			
	8	9	10	11	12	13	14				
30	1	3	2	-	-	-	-	6			
32	-	17	4	2	-	-	-	23			
34	-	3	16	6	1	-	-	26			
36	-	-	4	9	12	2	-	27			
38	-	-	1	2	8	8	-	19			
40	-	-	-	-	6	5	-	11			
42	-	-	-	-	-	5	3	8			
44	-	-	-	-	1	4	3	8			
(♂♂)											
No. of Comm. Samples - ?											
Total	1	23	27	19	28	24	6	128			

Year: 1972		Country: Canada (N)					Species: Amer. plaice						
Quarter: 2nd		Gear: Otter trawl					Division: 3L						
Structures used in aging: Otoliths					Reported by: T.K. Pitt								
(2 cm) Length	Age									Total			
	9	10	11	12	13	14	15	16	17		18	19	19+
30	1	4	-	-	-	-	-	-	-	-	-	-	5
32	3	4	5	-	-	-	-	-	-	-	-	-	12
34	-	2	12	4	-	-	-	-	-	-	-	-	18
36	1	-	5	4	-	-	-	-	-	-	-	-	10
38	-	1	2	10	1	-	-	-	-	-	-	-	14
40	-	1	1	12	2	-	-	-	-	-	-	-	16
42	-	-	1	3	7	1	-	-	-	-	-	-	12
44	-	-	-	-	8	2	-	-	-	-	-	-	10
46	-	-	-	-	1	5	4	-	-	-	-	-	10
48	-	-	-	-	-	1	2	2	-	-	-	-	5
50	-	-	-	-	-	-	-	1	2	-	-	-	3
52	-	-	-	-	-	-	-	-	-	-	-	-	-
54	-	-	-	-	-	-	-	-	-	-	-	-	-
56	-	-	-	-	-	-	-	-	-	-	-	1	1
(♀♀)													
No. of Comm. Samples - ?													
Total	5	12	26	33	19	9	6	3	2	-	-	1	116

Year: 1972		Country: Canada (N)					Species: Amer. plaice				
Quarter: 3rd		Gear: Otter trawl					Division: 3L				
Structures used in aging: Otoliths					Reported by: T.K. Pitt						
(2 cm) Length	Age							Total			
	7	8	9	10	11	12	13		14	15	
28	2	-	-	-	-	-	-	-	2		
30	-	-	1	-	-	-	-	-	1		
32	-	-	4	-	-	-	-	-	4		
34	-	3	3	5	1	-	-	-	12		
36	-	-	2	7	15	2	-	-	26		
38	-	1	-	4	7	6	1	-	19		
40	-	-	1	2	8	6	-	-	17		
42	-	-	-	-	7	5	2	1	15		
44	-	-	-	-	-	4	2	4	10		
46	-	-	-	-	-	-	2	2	4		
48	-	-	-	-	1	-	1	-	2		
50	-	-	-	-	-	1	-	1	2		
(♂♂)											
No. of Comm. Samples - ?											
Total	2	4	11	18	39	23	9	7	1	114	

Year: 1972		Country: Canada (N)					Species: Amer. plaice								
Quarter: 3rd		Gear: Otter trawl					Division: 3L								
Structures used in aging: Otoliths					Reported by: T.K. Pitt										
(2 cm) Length	Age									Total					
	7	8	9	10	11	12	13	14	15		16	17	18	19	19+
28	1	1	-	-	-	-	-	-	-	-	-	-	-	2	
30	-	3	-	-	-	-	-	-	-	-	-	-	-	3	
32	-	4	1	2	-	-	-	-	-	-	-	-	-	7	
34	-	5	2	2	-	-	-	-	-	-	-	-	-	9	
36	-	-	4	5	1	-	-	-	-	-	-	-	-	10	
38	-	-	-	10	7	-	-	-	-	-	-	-	-	17	
40	-	-	-	-	7	6	-	-	-	-	-	-	-	13	
42	-	-	-	-	8	12	1	-	-	-	-	-	-	21	
44	-	-	-	-	-	1	5	6	1	-	-	-	-	13	
46	-	-	-	-	-	1	6	5	4	1	-	-	-	17	
48	-	-	-	-	-	-	3	7	4	2	-	-	-	17	
50	-	-	-	-	-	-	1	3	7	4	2	1	-	9	
52	-	-	-	-	-	-	-	-	3	4	3	2	-	12	
54	-	-	-	-	-	-	-	-	2	-	4	1	1	8	
56	-	-	-	-	-	-	-	-	-	1	-	-	-	2	
58	-	-	-	-	-	-	-	-	-	2	-	-	-	4	
60	-	-	-	-	-	-	-	-	-	1	1	-	1	3	
62	-	-	-	-	-	-	-	-	-	-	1	-	2	3	
64	-	-	-	-	-	-	-	-	-	-	-	-	2	2	
(♀♀)															
No. of Comm. Samples - ?															
Total	1	13	7	19	23	19	8	15	13	19	13	10	3	9	172

Year: 1972		Country: Canada (M & Q)		Species: Witch							
Quarter: 1st		Gear: Otter trawl		Division: 4Vs							
Structures used in aging: Otoliths		Reported by: Halliday & Fitzgerald									
Length	Age										Total
	5	6	7	8	9	10	11	12	13	14		15+
32	1	1	-	-	-	-	-	-	-	-	2
34	1	-	1	-	-	-	-	-	-	-	2
36	-	2	4	-	-	-	-	-	-	-	6
38	-	-	2	3	1	-	-	-	-	-	6
40	-	-	1	1	-	-	-	-	-	-	2
42	-	-	-	2	1	-	-	-	-	-	3
44	-	-	-	1	1	1	-	-	-	-	4
46	-	-	-	-	1	2	-	-	-	-	3
48	-	-	-	-	-	-	1	-	-	-	1
(♂♂)											
Total	2	3	8	7	3	4	1	1	-	-	29
34	-	-	-	1	-	-	-	-	-	-	1
36	-	-	-	-	-	-	-	-	-	-	-
38	-	-	-	-	1	-	-	-	-	-	1
40	-	-	2	1	1	-	-	-	-	-	4
42	-	-	-	-	2	1	-	-	-	-	3
44	-	-	-	1	-	-	1	-	-	-	2
46	-	-	-	-	2	-	1	-	-	-	3
48	-	-	-	1	-	2	1	2	-	-	6
50	-	-	-	-	-	3	2	-	1	-	6
52	-	-	-	-	1	1	1	1	1	1	6
54	-	-	-	-	-	1	-	1	1	-	3
56	-	-	-	-	-	-	-	-	-	2	2
58	-	-	-	-	-	-	-	-	-	2	2
60	-	-	-	-	-	-	-	1	-	1	2
(♀♀)											
No. of Comm. Samples - ?											
Total	-	-	2	4	7	3	6	7	3	5	41

Year: 1972		Country: Canada (M & Q)		Species: Witch					
Quarter: 2nd		Gear: Danish seine		Division: 4W					
Structures used in aging: Otoliths		Reported by: Halliday & Fitzgerald							
Length	Age							Total	
	6	7	8	9	10	11	12		13
38	-	1	1	1	-	-	-	-	3
40	-	-	1	1	-	-	-	-	2
42	-	-	-	-	-	-	-	-	-
44	-	-	-	-	-	1	-	-	1
46	-	-	-	1	-	-	1	-	2
(♂♂)									
Total	-	1	2	3	-	1	1	-	8
34	1	1	-	-	-	-	-	-	2
36	-	1	1	-	-	-	-	-	2
38	-	-	1	-	-	-	-	-	1
40	-	-	3	-	1	-	-	-	4
42	-	-	-	2	-	-	-	-	2
44	-	-	1	1	-	1	-	-	3
46	-	-	-	-	1	1	-	-	2
48	-	-	-	-	1	2	-	-	3
50	-	-	-	-	-	1	-	1	2
52	-	-	-	-	-	-	1	-	1
(♀♀)									
No. of Comm. Samples - ?									
Total	1	2	6	3	2	3	4	1	22

Year: 1972		Country: Canada (M & Q)		Species: Witch					
Quarter: 4th		Gear: Danish seine		Division: 4W					
Structures used in aging: Otoliths		Reported by: Halliday & Fitzgerald							
Length	Age							Total	
	5	6	7	8	9	10	11		12	13
36	1	1	-	-	-	-	-	-	2
38	-	-	2	-	-	-	-	-	2
40	-	-	2	-	-	-	-	-	2
42	-	-	2	-	-	-	-	-	2
44	-	-	1	1	-	-	-	-	2
46	-	-	-	2	-	-	-	-	2
48	-	-	-	1	-	-	-	-	1
50	-	-	-	-	-	2	-	-	2
(♂♂)									
Total	1	1	7	4	-	2	-	-	15
32	-	1	-	-	-	-	-	-	1
34	-	1	1	-	-	-	-	-	2
36	1	-	-	-	-	-	-	-	1
38	-	-	1	1	-	-	-	-	2
40	-	-	1	1	-	-	-	-	2
42	-	-	2	-	-	-	-	-	2
44	-	-	-	2	-	-	-	-	2
46	-	-	-	1	1	-	-	-	2
48	-	-	-	1	-	-	-	-	1
50	-	-	-	-	1	1	-	-	2
52	-	-	-	-	-	-	-	-	-
54	-	-	-	-	-	-	-	-	-
56	-	-	-	-	-	-	1	-	1
(♀♀)									
No. of Comm. Samples - ?									
Total	1	2	5	6	1	1	1	-	18

Year: 1972		Country: Canada (M & Q)		Species: Yellowtail		Year: 1972		Country: Canada (M & Q)		Species: Yellowtail					
Quarter: 2nd		Gear: Otter trawl		Division: 4Vs		Quarter: 2nd		Gear: Otter trawl		Division: 4Vs					
Structures used in aging: Otoliths				Reported by: Halliday & Fitzgerald				Structures used in aging: Otoliths				Reported by: Halliday & Fitzgerald			
Length	Age				Total	Length	Age				Total				
	6	7	8	9			6	7	8	9		10			
27	-	1	-	-	1	29	1	-	-	-	1				
28	-	-	-	-	-	30	-	-	-	-	-				
29	1	-	-	-	1	31	-	-	-	-	-				
30	1	-	-	-	1	32	1	-	-	-	1				
31	1	-	-	-	1	33	-	1	-	-	1				
32	1	-	-	1	2	34	1	-	-	-	1				
33	-	1	-	-	1	35	1	-	-	-	1				
34	-	-	-	1	1	36	-	2	-	-	2				
35	-	1	-	-	1	37	-	-	-	-	-				
36	-	1	-	-	1	38	-	1	-	-	1				
37	-	-	1	-	1	39	-	-	1	-	1				
38	-	1	-	1	2	40	-	-	-	1	1				
39	-	-	1	-	1	41	-	-	-	1	1				
40	-	-	-	-	-	42	-	-	2	-	2				
41	-	-	-	-	-	43	-	1	-	-	1				
42	-	1	-	-	1	44	-	-	-	1	1				
						45	-	-	-	1	1				
						46	-	-	-	-	-				
						47	-	-	-	-	-				
						48	-	-	-	1	1				
(♂)						(♀)									
No. of Comm. Samples - ?						No. of Comm. Samples - ?									
Total	4	6	2	3	15	Total	4	5	3	3	2	17			

Year: 1972		Country: Canada (N)		Species: Yellowtail				
Quarter: 2nd		Gear: Otter trawl		Division: 3L				
Structures used in aging: Otoliths			Reported by: T.K. Pitt					
(2 cm)	Age						Total	
Length	5	6	7	8	9	10		11
26	1	-	-	-	-	-	-	1
28	3	4	-	-	-	-	-	7
30	5	13	2	-	-	-	-	20
32	2	22	5	-	-	-	-	29
34	2	15	20	-	-	-	-	37
36	1	7	29	1	-	-	-	38
38	-	2	20	6	-	-	1	29
40	-	-	9	18	1	-	-	28
42	-	-	-	4	-	-	-	4
(♂)								
No. of Comm. Samples - ?								
Total	14	63	85	29	1	-	1	193

Year: 1972		Country: Canada (N)		Species: Yellowtail				
Quarter: 2nd		Gear: Otter trawl		Division: 3L				
Structures used in aging: Otoliths			Reported by: T.K. Pitt					
(2 cm)	Age						Total	
Length	5	6	7	8	9	10		
28	1	4	-	-	-	-	5	
30	1	7	-	-	-	-	8	
32	6	18	3	-	-	-	27	
34	1	26	3	-	-	-	30	
36	-	11	17	1	-	-	29	
38	-	-	24	5	-	-	29	
40	-	-	8	22	-	-	30	
42	-	-	5	19	8	-	32	
44	-	-	-	6	12	-	18	
46	-	-	-	1	2	2	5	
48	-	-	-	-	-	-	-	
50	-	-	-	-	-	1	1	
(♀)								
No. of Comm. Samples - ?								
Total	9	66	60	54	22	3	214	

Year: 1972		Country: Canada (N)		Species: Yellowtail		
Quarter: 2nd		Gear: Otter trawl		Division: 3N		
Structures used in aging: Otoliths			Reported by: T.K. Pitt			
(2 cm)	Age					Total
Length	6	7	8	9	10	
32	-	5	-	-	-	5
34	3	10	-	-	-	13
36	2	22	-	-	-	24
38	1	23	13	-	-	37
40	-	4	7	-	-	11
42	-	-	4	-	-	4
44	-	-	-	-	-	-
46	-	-	-	-	1	1
(♂)						
No. of Comm. Samples - ?						
Total	6	64	24	-	1	95

Year: 1972		Country: Canada (N)		Species: Yellowtail			
Quarter: 2nd		Gear: Otter trawl		Division: 3N			
Structures used in aging: Otoliths			Reported by: T.K. Pitt				
(2 cm)	Age						Total
Length	6	7	8	9	10	11		12
32	2	-	-	-	-	-	2
34	3	1	-	-	-	-	4
36	2	11	-	-	-	-	13
38	-	26	6	-	-	-	32
40	-	6	23	-	-	-	29
42	-	6	18	1	-	-	25
44	-	-	7	4	1	-	12
46	-	-	-	1	1	1	4
(♀)							
No. of Comm. Samples - ?							
Total	7	50	54	6	2	1	121

Year: 1972		Country: Canada (M & Q)		Species: Herring							
Quarter: 1st		Gear: Purse seine		Division: 3P							
Structures used in aging: Otoliths		Reported by: C.D. Burnett & D.S. Miller									
Length	Age										Total
	4	5	6	7	8	9	10	11	12	13	
28	1	-	-	-	-	-	-	-	-	-	1
29	-	-	-	-	-	-	-	-	-	-	-
30	-	-	-	-	-	-	-	-	-	-	-
31	-	-	-	2	-	-	-	-	-	-	2
32	-	-	-	1	-	-	-	-	-	-	1
33	-	-	-	9	11	-	-	-	-	-	20
34	-	-	-	-	11	4	1	-	-	1	17
35	-	-	-	-	-	13	7	3	-	-	23
36	-	-	-	-	-	4	4	5	5	2	20
37	-	-	-	-	-	-	-	-	3	2	5
No. of Comm. Samples - 1											
Total	1	-	-	12	22	21	12	8	8	5	89

Year: 1972		Country: Canada (M & Q)		Species: Herring							
Quarter: 2nd		Gear: Gillnet, Purse seine		Division: 4T							
Structures used in aging: Otoliths		Reported by: C.D. Burnett & D.S. Miller									
Length	Age										Total
	4	5	6	7	8	9	10				
27	2	-	-	-	-	-	-	-	-	-	2
28	43	2	1	-	-	-	-	-	-	-	46
29	74	24	1	-	-	-	-	-	-	-	99
30	9	32	5	-	-	-	-	-	-	-	46
31	-	5	13	2	-	-	-	-	-	-	20
32	-	-	3	3	-	-	-	-	-	-	6
33	-	-	2	1	2	-	-	-	-	-	5
34	-	-	-	-	1	1	1	-	-	-	3
No. of Comm. Samples - 3											
Total	128	63	25	6	3	1	1				227

Year: 1972		Country: Canada (M & Q)		Species: Herring										
Quarter: 3rd		Gear: Gillnet, Purse seine		Division: 4T										
Structures used in aging: Otoliths		Reported by: C.D. Burnett & D.S. Miller												
Length	Age													Total
	2	3	4	5	6	7	8	9	10	11	12	13	14	
18	2	-	-	-	-	-	-	-	-	-	-	-	-	2
19	3	-	-	-	-	-	-	-	-	-	-	-	-	3
20	6	-	-	-	-	-	-	-	-	-	-	-	-	6
21	26	1	-	-	-	-	-	-	-	-	-	-	-	27
22	28	-	-	-	-	-	-	-	-	-	-	-	-	28
23	5	3	-	-	-	-	-	-	-	-	-	-	-	8
24	-	6	-	-	-	-	-	-	-	-	-	-	-	6
25	-	26	3	-	-	-	-	-	-	-	-	-	-	29
26	-	35	12	1	-	-	-	-	-	-	-	-	-	48
27	-	33	13	2	-	-	-	-	-	-	-	-	-	48
28	-	3	35	22	1	-	-	-	-	-	-	-	-	61
29	-	2	53	66	14	1	-	-	-	-	-	-	-	136
30	-	-	21	73	28	9	1	-	-	-	-	-	-	132
31	-	-	4	29	51	22	2	-	-	-	-	-	-	108
32	-	-	-	7	53	52	10	1	-	-	-	-	-	123
33	-	-	-	1	26	89	79	21	-	-	-	-	-	216
34	-	-	-	-	2	18	90	37	9	-	-	-	-	156
35	-	-	-	-	-	1	18	38	19	5	-	-	-	81
36	-	-	-	-	-	-	-	7	8	6	3	2	1	27
37	-	-	-	-	-	-	-	1	3	3	-	-	-	7
38	-	-	-	-	-	-	-	-	-	-	1	-	-	1
No. of Comm. Samples - 3														
Total	70	109	141	201	175	192	200	105	39	14	3	3	1	1253

Year: 1972		Country: Canada (M & Q)		Species: Herring							
Quarter: 4th		Gear: Purse seine		Division: 4T							
Structures used in aging: Otoliths		Reported by: C.D. Burnett & D.S. Miller									
Length	Age										Total
	4	5	6	7	8	9	10	11			
28	4	1	-	-	-	-	-	-	-	-	5
29	-	13	3	-	-	-	-	-	-	-	16
30	2	19	5	1	-	-	-	-	-	-	27
31	-	9	5	-	-	-	-	-	-	-	14
32	-	-	3	7	1	-	-	-	-	-	11
33	-	-	1	6	4	1	-	-	-	-	12
34	-	-	-	-	6	1	-	-	-	-	7
35	-	-	-	-	-	1	-	-	-	-	1
36	-	-	-	-	-	-	-	1	-	-	1
No. of Comm. Samples - 1											
Total	6	42	17	14	11	3	-	1			94

Year: 1972		Country: Canada (M & Q)		Species: Herring							
Quarter: 1st		Gear: Purse seine & Midwater trawl		Division: 4Vn							
Structures used in aging: Otoliths		Reported by: C.D. Burnett & D.S. Miller									
Length	Age										Total
	3	4	5	6	7	8	9	10	11	12	
22	1	-	-	-	-	-	-	-	-	-	1
23	5	-	-	-	-	-	-	-	-	-	5
24	1	1	-	-	-	-	-	-	-	-	2
25	-	1	-	-	-	-	-	-	-	-	1
26	-	1	-	-	-	-	-	-	-	-	1
27	-	9	-	-	-	-	-	-	-	-	9
28	-	5	-	-	-	-	-	-	-	-	5
29	-	3	9	-	-	-	-	-	-	-	12
30	-	-	4	9	-	-	-	-	-	-	13
31	-	-	1	26	3	-	-	-	-	-	30
32	-	-	-	13	20	4	-	-	-	-	37
33	-	-	-	4	15	15	-	-	-	-	34
34	-	-	-	1	-	7	2	1	-	-	11
35	-	-	-	-	-	2	7	6	-	-	15
36	-	-	-	-	-	-	1	4	2	2	9
No. of Comm. Samples - 2											
Total	7	20	14	53	38	28	10	11	2	2	185

Year: 1972		Country: Canada (M & Q)		Species: Herring							
Quarter: 2nd		Gear: Trap, Purse seine & Midwater trawl		Division: 4Vn							
Structures used in aging: Otoliths		Reported by: C.D. Burnett & D.S. Miller									
Length	Age										Total
	3	4	5	6	7	8	9	10			
24	1	-	-	-	-	-	-	-	-	-	1
25	5	3	-	-	-	-	-	-	-	-	8
26	1	7	-	-	-	-	-	-	-	-	8
27	2	21	3	1	-	-	-	-	-	-	27
28	-	66	19	1	-	-	-	-	-	-	86
29	-	27	32	2	-	-	-	-	-	-	61
30	-	5	14	4	-	-	-	-	-	-	23
31	-	-	1	11	-	-	-	-	-	-	12
32	-	-	-	9	8	-	2	-	-	-	19
33	-	-	-	1	4	5	-	-	-	-	10
34	-	-	-	1	-	4	7	-	-	-	12
35	-	-	-	-	-	2	6	5	-	-	13
36	-	-	-	-	-	-	2	4	-	-	6
37	-	-	-	-	-	-	-	3	-	-	3
No. of Comm. Samples - 1											
Total	9	129	69	30	12	11	17	12	289		

Year: 1972		Country: Canada (M & Q)		Species: Herring										
Quarter: 3rd		Gear: Trap		Division: 4Vn										
Structures used in aging: Otoliths		Reported by: C.D. Burnett & D.S. Miller												
Length	Age													Total
	3	4	5	6	7	8	9	10	11	12	13	14		
24	1	-	-	-	-	-	-	-	-	-	-	-	-	1
25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	2	1	-	-	-	-	-	-	-	-	-	-	-	3
28	-	3	-	-	-	-	-	-	-	-	-	-	-	3
29	-	11	5	1	-	-	-	-	-	-	-	-	-	17
30	-	7	4	-	-	-	-	-	-	-	-	-	-	11
31	-	-	2	1	-	-	-	-	-	-	-	-	-	3
32	-	-	-	3	1	-	-	-	-	-	-	-	-	4
33	-	-	-	2	5	3	-	-	-	-	-	-	-	10
34	-	-	-	-	1	7	1	-	-	-	-	-	-	9
35	-	-	-	-	-	4	7	-	-	-	-	-	-	11
36	-	-	-	-	-	-	3	1	1	-	-	-	-	5
37	-	-	-	-	-	-	4	3	3	-	1	1	-	12
No. of Comm. Samples - 1														
Total	3	24	11	7	7	14	15	4	4	-	1	1	89	

Year: 1972		Country: Canada (M & Q)		Species: Herring											
Quarter: 4th		Gear: Purse seine & Midwater trawl		Division: 4Vn											
Structures used in aging: Otoliths		Reported by: C.D. Burnett & D.S. Miller													
Length	Age														Total
	2	3	4	5	6	7	8	9	10	11	12	13	14		
21	1	-	-	-	-	-	-	-	-	-	-	-	-	1	
22	3	-	-	-	-	-	-	-	-	-	-	-	-	3	
23	2	-	-	-	-	-	-	-	-	-	-	-	-	2	
24	5	2	-	-	-	-	-	-	-	-	-	-	-	7	
25	3	1	-	-	-	-	-	-	-	-	-	-	-	4	
26	-	1	3	-	-	-	-	-	-	-	-	-	-	4	
27	-	13	5	-	-	-	-	-	-	-	-	-	-	18	
28	-	21	20	-	-	-	-	-	-	-	-	-	-	41	
29	-	3	33	4	-	-	-	-	-	-	-	-	-	40	
30	-	-	32	13	1	-	-	-	-	-	-	-	-	46	
31	-	-	8	17	8	2	1	-	-	-	-	-	-	36	
32	-	-	1	8	35	4	1	-	-	-	-	-	-	49	
33	-	-	-	-	33	29	20	5	-	-	-	-	-	87	
34	-	-	-	-	1	20	41	23	5	-	-	-	-	90	
35	-	-	-	-	-	1	25	28	12	2	1	-	-	69	
36	-	-	-	-	-	-	8	40	12	4	3	-	-	67	
37	-	-	-	-	-	-	-	13	10	17	2	-	-	42	
38	-	-	-	-	-	-	-	-	9	4	5	4	2	24	
39	-	-	-	-	-	-	-	-	1	1	1	1	-	4	
No. of Comm. Samples - 7															
Total	14	41	102	42	78	56	96	109	49	28	12	5	2	634	

Year: 1972		Country: Canada (M & Q)		Species: Herring						
Quarter: 1st		Gear: Purse seine & Midwater trawl		Division: 4W(a)						
Structures used in aging: Otoliths			Reported by: C.D. Burnett & D.S. Miller							
Length	Age								Total	
	3	4	5	6	7	8	9	10		11
22	6	1	-	-	-	-	-	-	-	7
23	23	4	-	-	-	-	-	-	-	27
24	30	14	-	-	-	-	-	-	-	44
25	12	34	-	-	-	-	-	-	-	46
26	2	51	-	-	-	-	-	-	-	53
27	-	50	2	-	-	-	-	-	-	52
28	-	44	23	-	-	-	-	-	-	67
29	-	17	27	5	-	-	-	-	-	49
30	-	1	37	29	-	1	-	-	-	68
31	-	-	16	85	6	-	-	-	-	107
32	-	-	3	37	30	5	-	-	-	75
33	-	-	-	6	42	31	1	-	-	80
34	-	-	-	1	4	39	10	2	-	56
35	-	-	-	-	-	8	11	5	1	25
36	-	-	-	-	-	2	5	8	2	17
37	-	-	-	-	-	-	-	1	1	2
No. of Comm. Samples - 8										
Total	73	216	108	163	82	86	27	16	4	775

Year: 1972		Country: Canada (M & Q)		Species: Herring							
Quarter: 3rd		Gear: Trap		Division: 4W(a)							
Structures used in aging: Otoliths			Reported by: C.D. Burnett & D.S. Miller								
Length	Age										Total
	4	5	6	7	8	9	10	11	12		
27	2	-	-	-	-	-	-	-	-	-	2
28	4	2	-	-	-	-	-	-	-	-	6
29	3	5	1	-	-	-	-	-	-	-	9
30	-	14	7	-	-	-	-	-	-	-	21
31	-	5	27	2	-	-	-	-	-	-	34
32	-	-	15	8	1	-	-	-	-	-	24
33	-	-	6	20	7	-	-	-	-	-	33
34	-	-	-	1	9	2	-	-	-	-	12
35	-	-	-	-	4	13	1	1	-	-	19
36	-	-	-	-	-	9	6	3	1	-	19
37	-	-	-	-	-	2	3	3	2	-	10
38	-	-	-	-	-	-	1	-	-	-	1
No. of Comm. Samples - 1											
Total	9	26	56	31	21	26	11	7	3		190

Year: 1972		Country: Canada (M & Q)		Species: Herring		
Quarter: 1st		Gear: Midwater trawl		Division: 4X(a) ¹		
Structures used in aging: Otoliths		Reported by: C.D. Burnett & D.S. Miller				
Length	Age					Total
	2					
10	3					3
11	14					14
12	40					40
13	32					32
14	2					2
15	1					1
No. of Comm. Samples - 1						
Total	92					92

Year: 1972		Country: Canada (M & Q)		Species: Herring									
Quarter: 2nd		Gear: Weir, Purse seine & Gillnet		Division: 4X(a) ¹									
Structures used in aging: Otoliths		Reported by: C.D. Burnett & D.S. Miller											
Length	Age												Total
	2	3	4	5	6	7	8	9	10	11	12		
11	6	-	-	-	-	-	-	-	-	-	-	-	6
12	12	-	-	-	-	-	-	-	-	-	-	-	12
13	50	-	-	-	-	-	-	-	-	-	-	-	50
14	142	-	-	-	-	-	-	-	-	-	-	-	142
15	158	-	-	-	-	-	-	-	-	-	-	-	158
16	115	-	-	-	-	-	-	-	-	-	-	-	115
17	80	1	-	-	-	-	-	-	-	-	-	-	81
18	51	1	-	-	-	-	-	-	-	-	-	-	52
19	22	1	-	-	-	-	-	-	-	-	-	-	23
20	7	-	-	-	-	-	-	-	-	-	-	-	7
21	2	1	-	-	-	-	-	-	-	-	-	-	3
22	-	1	-	-	-	-	-	-	-	-	-	-	1
23	-	3	-	-	-	-	-	-	-	-	-	-	3
24	-	8	1	-	-	-	-	-	-	-	-	-	9
25	-	9	3	-	-	-	-	-	-	-	-	-	12
26	-	16	12	-	-	-	-	-	-	-	-	-	28
27	-	3	35	-	-	-	-	-	-	-	-	-	38
28	-	4	72	6	-	-	-	-	-	-	-	-	82
29	-	-	66	47	4	-	-	-	-	-	-	-	117
30	-	-	26	85	24	-	-	-	-	-	-	-	135
31	-	-	-	24	65	8	-	-	-	-	-	-	97
32	-	-	-	1	80	55	7	-	-	-	-	-	143
33	-	-	-	-	12	100	60	2	-	-	-	-	174
34	-	-	-	-	-	8	132	21	1	-	-	-	162
35	-	-	-	-	-	-	12	45	7	-	-	-	64
36	-	-	-	-	-	-	-	1	8	5	1	2	17
37	-	-	-	-	-	-	-	-	2	2	2	-	6
38	-	-	-	-	-	-	-	-	-	1	1	-	2
No. of Comm. Samples - 18													
Total	645	48	215	163	185	171	212	78	16	4	2	1739	

Year: 1972		Country: Canada (M & Q)		Species: Herring										
Quarter: 3rd		Gear: Weir, Purse seine & Gillnet		Division: 4X(a) ¹										
Structures used in aging: Otoliths		Reported by: C.D. Burnett & D.S. Miller												
Length	Age													Total
	2	3	4	5	6	7	8	9	10	11	12	13		
11	1	-	-	-	-	-	-	-	-	-	-	-	1	
12	2	-	-	-	-	-	-	-	-	-	-	-	2	
13	9	-	-	-	-	-	-	-	-	-	-	-	9	
14	24	-	-	-	-	-	-	-	-	-	-	-	24	
15	49	-	-	-	-	-	-	-	-	-	-	-	49	
16	59	-	-	-	-	-	-	-	-	-	-	-	59	
17	69	-	-	-	-	-	-	-	-	-	-	-	69	
18	91	-	-	-	-	-	-	-	-	-	-	-	91	
19	64	-	-	-	-	-	-	-	-	-	-	-	64	
20	93	-	-	-	-	-	-	-	-	-	-	-	93	
21	116	1	-	-	-	-	-	-	-	-	-	-	117	
22	123	2	-	-	-	-	-	-	-	-	-	-	125	
23	49	3	-	-	-	-	-	-	-	-	-	-	52	
24	5	6	2	-	-	-	-	-	-	-	-	-	13	
25	1	31	2	-	-	-	-	-	-	-	-	-	34	
26	-	53	11	1	-	-	-	-	-	-	-	-	65	
27	-	44	68	-	-	-	-	-	-	-	-	-	112	
28	-	13	204	21	-	-	-	-	-	-	-	-	238	
29	-	4	293	79	3	-	-	-	-	-	-	-	379	
30	-	-	129	194	32	-	-	-	-	-	-	-	355	
31	-	-	24	146	119	7	-	-	-	-	-	-	296	
32	-	-	2	23	194	64	11	3	-	-	-	-	297	
33	-	-	-	1	57	137	47	3	-	-	-	-	245	
34	-	-	-	-	2	34	110	27	1	-	-	-	174	
35	-	-	-	-	-	44	40	6	3	-	-	-	93	
36	-	-	-	-	-	5	17	11	2	-	1	-	36	
37	-	-	-	-	-	-	1	5	4	3	-	-	13	
38	-	-	-	-	-	-	1	-	1	-	-	-	2	
No. of Comm. Samples - 31														
Total	755	157	735	465	407	242	218	91	23	10	3	1	3107	

Year: 1972		Country: Canada (M & Q)		Species: Herring						
Quarter: 4th		Gear: Purse seine		Division: 4X(a) ¹						
Structures used in aging: Otoliths		Reported by: C.D. Burnett & D.S. Miller								
Length	Age									Total
	2	3	4	5	6	7	8	9		
14	1	-	-	-	-	-	-	-	-	1
15	7	-	-	-	-	-	-	-	-	7
16	41	-	-	-	-	-	-	-	-	41
17	68	-	-	-	-	-	-	-	-	68
18	56	-	-	-	-	-	-	-	-	56
19	19	-	-	-	-	-	-	-	-	19
20	6	-	-	-	-	-	-	-	-	6
21	2	-	-	-	-	-	-	-	-	2
26	-	2	2	-	-	-	-	-	-	4
27	-	10	11	-	-	-	-	-	-	21
28	-	7	43	1	-	-	-	-	-	51
29	-	1	76	2	2	-	-	-	-	81
30	-	-	44	22	2	-	-	-	-	68
31	-	-	7	23	14	1	-	-	-	45
32	-	-	1	2	12	3	-	-	-	18
33	-	-	-	-	2	2	2	-	-	6
34	-	-	-	-	-	1	1	1	-	3
No. of Comm. Samples - 5										
Total	200	20	184	50	32	7	3	1	497	

¹ Southwest Nova Scotia

Year: 1972		Country: Canada (M & Q)		Species: Herring	
Quarter: 1st		Gear: Otter trawl		Division: 4X(b) ¹	
Structures used in aging: Otoliths		Reported by: C.D. Burnett & D.S. Miller			
Length	Age		Total		
	2				
9	2		2		
10	5		5		
11	43		43		
12	30		30		
13	4		4		
14	3		3		
15	2		2		
No. of Comm. Samples - 1					
Total	89		89		

Year: 1972		Country: Canada (M & Q)		Species: Herring	
Quarter: 2nd		Gear: Weir & Midwater trawl		Division: 4X(b) ¹	
Structures used in aging: Otoliths		Reported by: C.D. Burnett & D.S. Miller			
Length	Age				Total
	1	2	3	4	
8	1	-	-	-	1
9	-	16	-	-	16
10	-	74	-	-	74
11	-	97	-	-	97
12	-	134	-	-	134
13	-	124	-	-	124
14	-	142	-	-	142
15	-	187	-	-	187
16	-	195	-	-	195
17	-	159	2	-	161
18	-	85	6	-	91
19	-	42	1	-	43
20	-	11	1	-	12
21	-	-	1	-	1
22	-	-	4	1	5
23	-	-	-	-	-
24	-	-	-	1	1
No. of Comm. Samples - 13					
Total	1	1266	15	2	1284

Year: 1972		Country: Canada (M & Q)		Species: Herring						
Quarter: 3rd		Gear: Weir, Purse seine & Midwater trawl		Division: 4X(b) ¹						
Structures used in aging: Otoliths		Reported by: C.D. Burnett & D.S. Miller								
Length	Age									Total
	1	2	3	4	5	6	7	8	9	
7	3	-	-	-	-	-	-	-	-	3
8	1	-	-	-	-	-	-	-	-	1
9	2	-	-	-	-	-	-	-	-	2
10	20	2	-	-	-	-	-	-	-	22
11	34	11	-	-	-	-	-	-	-	45
12	25	8	-	-	-	-	-	-	-	33
13	4	55	-	-	-	-	-	-	-	59
14	1	142	-	-	-	-	-	-	-	143
15	-	231	-	-	-	-	-	-	-	231
16	-	395	-	-	-	-	-	-	-	395
17	-	435	-	-	-	-	-	-	-	435
18	-	294	-	-	-	-	-	-	-	294
19	-	197	-	-	-	-	-	-	-	197
20	-	107	-	-	-	-	-	-	-	107
21	-	84	-	-	-	-	-	-	-	84
22	-	43	4	-	-	-	-	-	-	47
23	-	6	2	-	-	-	-	-	-	8
24	-	1	6	-	-	-	-	-	-	7
25	-	-	10	-	-	-	-	-	-	10
26	-	-	22	2	-	-	-	-	-	24
27	-	-	18	5	-	-	-	-	-	23
28	-	1	5	12	2	-	-	-	-	20
29	-	-	1	14	1	-	-	-	-	16
30	-	-	1	6	5	-	-	-	-	12
31	-	-	-	-	4	-	-	-	-	4
32	-	-	-	-	-	2	-	-	-	2
33	-	-	-	-	-	-	3	-	-	3
34	-	-	-	-	-	-	1	1	1	3
No. of Comm. Samples - 23										
Total	90	2012	69	39	12	2	4	1	1	2230

Year: 1972		Country: Canada (M & Q)		Species: Herring								
Quarter: 4th		Gear: Weir, Purse seine		Division: 4X(b) ¹								
Structures used in aging: Otoliths		Reported by: C.D. Burnett & D.S. Miller										
Length	Age											Total
	1	2	3	4	5	6	7	8	9	10	11	
10	3	-	-	-	-	-	-	-	-	-	-	3
11	16	1	-	-	-	-	-	-	-	-	-	17
12	15	-	-	-	-	-	-	-	-	-	-	15
13	7	3	-	-	-	-	-	-	-	-	-	10
14	2	17	-	-	-	-	-	-	-	-	-	19
15	-	46	-	-	-	-	-	-	-	-	-	46
16	-	97	-	-	-	-	-	-	-	-	-	97
17	-	157	-	-	-	-	-	-	-	-	-	157
18	-	182	-	-	-	-	-	-	-	-	-	182
19	-	160	-	-	-	-	-	-	-	-	-	160
20	-	167	-	-	-	-	-	-	-	-	-	167
21	-	157	-	-	-	-	-	-	-	-	-	157
22	-	138	-	-	-	-	-	-	-	-	-	138
23	-	78	-	-	-	-	-	-	-	-	-	78
24	-	61	1	-	-	-	-	-	-	-	-	62
25	-	21	9	-	-	-	-	-	-	-	-	30
26	-	2	5	-	-	-	-	-	-	-	-	7
27	-	1	1	-	-	-	-	-	-	-	-	2
28	-	1	1	1	1	-	-	-	-	-	-	4
29	-	1	1	5	-	-	-	-	-	-	-	7
30	-	-	-	10	2	2	-	-	-	-	-	14
31	-	-	-	8	14	4	3	-	-	-	-	29
32	-	-	-	1	4	27	4	1	-	-	-	37
33	-	-	-	-	20	15	4	1	1	-	-	41
34	-	-	-	-	1	15	24	5	1	-	-	46
35	-	-	-	-	-	-	6	4	2	-	-	12
36	-	-	-	-	-	-	-	2	-	1	-	3
No. of Comm. Samples - 19												
Total	43	1290	18	25	21	54	37	35	12	4	1	1540

¹ New Brunswick side of Bay of Fundy

Year: 1972		Country: Canada (M & Q)		Species: Herring	
Quarter: 2nd		Gear: Weir		Division: 5Y(North)	
Structures used in aging: Otoliths		Reported by: C.D. Burnett & D.S. Miller			
Length	Age		Total		
	2				
10	3		3		
11	25		25		
12	26		26		
13	28		28		
14	7		7		
15	7		7		
16	3		3		
17	-		-		
18	1		1		
No. of Comm. Samples - 1					
Total	100		100		

Year: 1972		Country: Canada (M & Q)		Species: Herring	
Quarter: 3rd		Gear: Weir, Purse seine		Division: 5Y(North)	
Structures used in aging: Otoliths		Reported by: C.D. Burnett & D.S. Miller			
Length	Age		Total		
	2	3			
11	1	-	1		
12	2	-	2		
13	12	-	12		
14	32	-	32		
15	22	-	22		
16	14	-	14		
17	4	-	4		
18	16	-	16		
19	10	-	10		
20	19	-	19		
21	32	-	32		
22	26	-	26		
23	7	-	7		
24	1	-	1		
25	-	2	2		
No. of Comm. Samples - 2					
Total	198	2	200		

Year: 1972		Country: Canada (M & Q)		Species: Herring	
Quarter: 4th		Gear: Weir		Division: 5Y(North)	
Structures used in aging: Otoliths		Reported by: C.D. Burnett & D.S. Miller			
Length	Age		Total		
	2	3			
15	1	-	1		
16	21	-	21		
17	24	-	24		
18	14	-	14		
19	5	-	5		
20	5	-	5		
21	-	-	-		
22	1	-	1		
---	-	-	-		
27	-	1	1		
No. of Comm. Samples - 1					
Total	71	1	72		

Year: 1972		Country: Canada (M & Q)		Species: Herring				
Quarter: 2nd		Gear: Purse seine		Division: 5Y(South)				
Structures used in aging: Otoliths		Reported by: C.D. Burnett & D.S. Miller						
Length	Age						Total	
	4	5	6	7	8	9		10	11
29	1	3	1	-	-	-	-	5
30	3	5	10	-	-	-	-	18
31	-	3	18	9	-	-	-	30
32	-	-	12	25	1	-	-	38
33	-	-	2	24	15	4	-	45
34	-	-	1	1	17	11	1	31
35	-	-	-	-	1	5	5	11
36	-	-	-	-	-	2	1	3
37	-	-	-	-	-	1	-	1
No. of Comm. Samples - 2								
Total	4	11	44	59	34	23	7	183

Year: 1972		Country: Fed.Rep. Germany		Species: Herring					
Quarter: 4th		Gear: Pelagic trawl		Division: 5Y(south)					
Structures used in aging: Scales & Otoliths		Reported by: K. Schubert							
Length	Age								Total
	3	4	5	6	7	8	9	>9	
26	1	-	-	-	-	-	-	-	1
27	3	-	-	-	-	-	-	-	3
28	3	2	-	-	-	-	-	-	5
29	-	4	1	-	-	-	-	-	5
30	-	7	12	2	-	-	-	-	21
31	-	1	8	7	1	-	-	-	17
32	-	1	1	7	6	3	-	-	18
33	-	-	-	-	1	9	3	3	16
34	-	-	-	-	-	1	1	3	5
35	-	-	-	-	-	-	1	4	5
36	-	-	-	-	-	-	-	1	1
No. of Comm. Samples - 1									
Total	7	15	22	16	8	13	5	11	97

Year: 1972		Country: Fed.Rep. Germany		Species: Herring					
Quarter: 3rd		Gear: Pelagic trawl		Division: 5Ze					
Structures used in aging: Scales & Otoliths		Reported by: K. Schubert							
Length	Age								Total
	3	4	5	6	7	8	9	>9	
25	6	-	-	-	-	-	-	-	6
26	13	-	-	-	-	-	-	-	13
27	28	5	1	-	-	-	-	-	34
28	21	57	2	-	-	-	-	-	80
29	8	120	15	3	-	-	-	-	146
30	2	107	74	24	3	-	-	-	210
31	-	45	89	90	23	2	-	-	249
32	-	7	50	121	47	26	7	6	264
33	-	-	4	54	57	25	15	17	172
34	-	-	-	5	21	27	32	45	130
35	-	-	-	-	-	1	5	41	47
36	-	-	-	-	-	-	-	4	4
No. of Comm. Samples - 21									
Total	78	341	235	297	151	81	59	113	1355

Year: 1972		Country: Fed.Rep. Germany		Species: Herring						
Quarter: 4th		Gear: Pelagic trawl		Division: 5Ze						
Structures used in aging: Scales & Otoliths		Reported by: K. Schubert								
Length	Age								Total	
	2	3	4	5	6	7	8	9		>9
18	1	-	-	-	-	-	-	-	1	
19	6	-	-	-	-	-	-	-	6	
20	13	-	-	-	-	-	-	-	13	
21	18	-	-	-	-	-	-	-	18	
22	29	-	-	-	-	-	-	-	29	
23	13	-	-	-	-	-	-	-	13	
24	19	-	-	-	-	-	-	-	19	
25	1	5	-	-	-	-	-	-	6	
26	-	17	-	-	-	-	-	-	17	
27	-	27	11	-	-	-	-	-	38	
28	-	25	34	-	-	-	-	-	59	
29	-	10	99	14	2	-	-	-	125	
30	-	1	85	32	17	-	-	-	135	
31	-	-	40	38	36	5	-	-	119	
32	-	-	-	19	35	15	4	-	73	
33	-	-	-	1	14	18	7	6	54	
34	-	-	-	-	4	4	1	9	18	
35	-	-	-	-	-	-	2	11	13	
36	-	-	-	-	-	-	-	1	1	
No. of Comm. Samples - 13										
Total	100	85	269	104	104	42	15	9	29	757

Year: 1972		Country: Poland		Species: Herring							
Quarter: 3rd		Gear: Otter trawl		Division: 5Z							
Structures used in aging: Otoliths		Reported by: B. Draganik									
Length	Age										Total
	2	3	4	5	6	7	8	9	10	10+	
20	4	-	-	-	-	-	-	-	-	-	4
21	21	-	-	-	-	-	-	-	-	-	21
22	71	-	-	-	-	-	-	-	-	-	71
23	138	-	-	-	-	-	-	-	-	-	138
24	143	6	-	-	-	-	-	-	-	-	149
25	36	10	-	-	-	-	-	-	-	-	46
26	2	26	6	-	-	-	-	-	-	-	34
27	-	48	26	3	-	-	-	-	-	-	77
28	-	46	72	14	-	-	-	-	-	-	132
29	-	8	54	90	2	-	-	-	-	-	154
30	-	-	26	198	12	2	-	-	-	-	238
31	-	-	4	152	113	13	-	-	-	-	282
32	-	-	2	15	131	99	2	-	-	-	249
33	-	-	-	-	33	125	59	12	1	-	230
34	-	-	-	-	1	28	60	52	5	11	157
35	-	-	-	-	-	1	11	34	19	17	82
36	-	-	-	-	-	-	-	10	8	21	39
37	-	-	-	-	-	-	-	-	1	11	12
38	-	-	-	-	-	-	-	-	-	2	2
No. of Comm. Samples - ?											
Total	415	144	190	472	292	268	132	108	34	62	2117

Year: 1972		Country: Poland		Species: Herring							
Quarter: 4th		Gear: Otter trawl		Division: 5Z							
Structures used in aging: Otoliths		Reported by: B. Draganik									
Length	Age										Total
	3	4	5	6	7	8	9	10	10+		
26	3	-	-	-	-	-	-	-	-	-	3
27	13	1	-	-	-	-	-	-	-	-	14
28	6	15	-	-	-	-	-	-	-	-	21
29	-	20	19	-	-	-	-	-	-	-	39
30	-	3	50	6	-	-	-	-	-	-	59
31	-	-	32	37	3	-	-	-	-	-	72
32	-	-	5	36	28	1	-	-	-	-	70
33	-	-	-	4	21	23	8	-	-	-	56
34	-	-	-	-	8	15	8	4	-	-	35
35	-	-	-	-	1	1	8	2	5	-	17
36	-	-	-	-	-	-	-	1	3	-	4
37	-	-	-	-	-	-	-	-	2	-	2
No. of Comm. Samples - ?											
Total	22	40	106	83	61	40	24	7	10		393

Year: 1972		Country: Poland		Species: Herring							
Quarter: 2nd		Gear: Otter trawl		Division: 6A							
Structures used in aging: Otoliths		Reported by: B. Draganik									
Length	Age										Total
	2	3	4	5	6	7	8	9	10	10+	
16	2	-	-	-	-	-	-	-	-	-	2
17	8	1	-	-	-	-	-	-	-	-	9
18	36	-	-	-	-	-	-	-	-	-	36
19	18	-	-	-	-	-	-	-	-	-	18
20	1	1	-	-	-	-	-	-	-	-	2
21	-	1	-	-	-	-	-	-	-	-	1
22	-	-	-	-	-	-	-	-	-	-	-
23	-	-	1	-	-	-	-	-	-	-	1
24	-	-	4	-	-	-	-	-	-	-	4
25	-	1	4	-	-	-	-	-	-	-	5
26	-	-	2	-	-	-	-	-	-	-	2
27	-	-	3	-	-	-	-	-	-	-	3
28	-	-	8	3	-	-	-	-	-	-	11
29	-	-	7	13	5	-	-	-	-	-	25
30	-	-	-	12	11	-	-	-	-	-	23
31	-	-	-	1	28	11	2	-	-	-	42
32	-	-	-	-	13	24	8	3	-	-	48
33	-	-	-	-	1	14	11	6	2	-	34
34	-	-	-	-	-	3	5	9	1	1	19
35	-	-	-	-	-	-	2	3	-	-	5
36	-	-	-	-	-	-	-	1	-	-	1
37	-	-	-	-	-	-	-	-	1	-	1
No. of Comm. Samples - ?											
Total	65	4	29	29	58	52	26	20	7	2	293

Year: 1972		Country: Poland		Species: Herring							
Quarter: 2nd		Gear: Otter trawl		Division: 6B							
Structures used in aging: Otoliths		Reported by: B. Draganik									
Length	Age										Total
	4	5	6	7	8	9	10	11	12	12+	
28	2	-	-	-	-	-	-	-	-	-	2
29	9	28	2	2	-	-	-	-	-	-	41
30	3	41	27	4	-	-	-	-	-	-	75
31	-	8	55	43	3	-	1	-	-	-	110
32	-	-	21	98	37	5	1	-	-	-	162
33	-	-	1	45	57	45	7	2	-	-	157
34	-	-	-	5	11	32	17	9	2	-	76
35	-	-	-	-	-	20	10	9	2	-	41
36	-	-	-	-	-	2	3	3	2	-	10
37	-	-	-	-	-	-	-	-	2	1	3
38	-	-	-	-	-	-	-	-	-	1	1
No. of Comm. Samples - ?											
Total	14	77	106	197	108	104	39	23	8	2	678

Year: 1972		Country: USSR		Species: Herring							
Quarter: 1st		Gear: Otter trawl		Division: 4V							
Structures used in aging: Otoliths			Reported by: A.S. Noskov & R.P. Volkova								
Length	Age										Total
	5	6	7	8	9	10	11	12	13	14	
30	2	1	-	-	-	-	-	-	-	-	3
31	-	1	1	-	-	-	-	-	-	-	2
32	-	2	16	3	-	-	-	-	-	-	21
33	-	-	1	5	3	-	-	-	-	-	9
34	-	-	1	28	36	7	-	-	-	-	72
35	-	-	-	5	16	16	7	1	-	-	45
36	-	-	-	-	7	23	25	27	7	-	89
37	-	-	-	-	-	1	10	13	7	-	31
38	-	-	-	-	-	-	-	3	13	2	18
39	-	-	-	-	-	-	-	-	1	-	1
No. of Comm. Samples - 2											
Total	2	4	19	41	62	47	42	44	28	2	291

Year: 1972		Country: USSR		Species: Herring							
Quarter: 2nd		Gear: Otter Trawl		Division: 4V							
Structures used in aging: Otoliths			Reported by: A.S. Noskov & R.P. Volkova								
Length	Age										Total
	4	5	6	7	8	9	10	11	12		
24	4	-	-	-	-	-	-	-	-	-	4
25	-	-	-	-	-	-	-	-	-	-	-
26	-	-	-	-	-	-	-	-	-	-	-
27	-	1	-	-	-	-	-	-	-	-	1
28	-	3	-	-	-	-	-	-	-	-	3
29	-	3	-	-	-	-	-	-	-	-	3
30	-	3	4	-	-	-	-	-	-	-	7
31	-	-	5	4	-	-	-	-	-	-	9
32	-	-	3	8	2	-	-	-	-	-	13
33	-	-	1	4	4	6	-	-	-	-	15
34	-	-	-	3	10	9	-	-	-	-	22
35	-	-	-	-	1	3	8	-	-	-	12
36	-	-	-	-	-	-	-	4	1	-	5
37	-	-	-	-	-	-	-	-	1	1	2
38	-	-	-	-	-	-	-	-	-	1	1
No. of Comm. Samples - 1											
Total	4	10	13	19	17	18	8	5	3		97

Year: 1972		Country: USSR		Species: Herring						
Quarter: 1st		Gear: Otter trawl		Division: 4W						
Structures used in aging: Otoliths			Reported by: A.S. Noskov & R.P. Volkova							
Length	Age								Total	
	3	4	5	6	7	8	9	10		11
23	3	-	-	-	-	-	-	-	-	3
24	5	4	-	-	-	-	-	-	-	9
25	8	22	-	-	-	-	-	-	-	30
26	-	40	1	-	-	-	-	-	-	41
27	-	24	17	-	-	-	-	-	-	41
28	-	19	32	1	-	-	-	-	-	52
29	-	-	31	5	-	-	-	-	-	36
30	-	-	44	28	-	-	-	-	-	72
31	-	-	-	24	11	-	-	-	-	35
32	-	-	-	7	36	9	-	-	-	52
33	-	-	-	1	19	21	8	-	-	49
34	-	-	-	-	4	21	16	-	-	41
35	-	-	-	-	-	1	12	4	2	19
36	-	-	-	-	-	-	1	4	2	7
37	-	-	-	-	-	-	-	-	4	4
38	-	-	-	-	-	-	-	-	2	2
No. of Comm. Samples - 5										
Total	16	109	125	66	70	52	37	8	10	493

Year: 1972		Country: USSR		Species: Herring										
Quarter: 3rd		Gear: Otter trawl		Division: 4W										
Structures used in aging: Otoliths			Reported by: A.S. Noskov & R.P. Volkova											
Length	Age													Total
	2	3	4	5	6	7	8	9	10	11	12	13	14	
21	1	-	-	-	-	-	-	-	-	-	-	-	-	1
22	-	2	-	-	-	-	-	-	-	-	-	-	-	2
23	1	1	-	-	-	-	-	-	-	-	-	-	-	2
24	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	-	-	2	-	-	-	-	-	-	-	-	-	-	2
26	-	-	3	-	-	-	-	-	-	-	-	-	-	3
27	-	-	2	1	-	-	-	-	-	-	-	-	-	3
28	-	-	2	1	-	-	-	-	-	-	-	-	-	3
29	-	-	1	4	1	-	-	-	-	-	-	-	-	6
30	-	-	-	8	9	-	-	-	-	-	-	-	-	17
31	-	-	-	-	10	8	-	-	-	-	-	-	-	18
32	-	-	-	-	14	20	2	-	-	-	-	-	-	36
33	-	-	-	-	4	38	33	6	-	-	-	-	-	81
34	-	-	-	-	-	26	88	47	2	-	-	-	-	163
35	-	-	-	-	-	1	27	86	62	10	-	-	-	186
36	-	-	-	-	-	-	1	12	31	33	7	-	-	84
37	-	-	-	-	-	-	-	3	5	14	7	-	-	29
38	-	-	-	-	-	-	-	-	1	3	3	-	-	7
39	-	-	-	-	-	-	-	-	-	1	-	4	-	5
40	-	-	-	-	-	-	-	-	-	-	-	1	-	1
No. of Comm. Samples - 13														
Total	2	3	10	14	38	93	151	151	98	49	25	10	5	649

Year: 1972		Country: USSR		Species: Herring						
Quarter: 2nd		Gear: Otter trawl		Division: 5Z						
Structures used in aging: Otoliths			Reported by: A.S. Noskov & R.P. Volkova							
Length	Age									Total
	2	3	4	5	6	7	8	9	10	
16	2	-	-	-	-	-	-	-	-	2
17	2	-	-	-	-	-	-	-	-	2
18	5	-	-	-	-	-	-	-	-	5
19	4	-	-	-	-	-	-	-	-	4
20	3	5	-	-	-	-	-	-	-	8
21	-	5	-	-	-	-	-	-	-	5
22	-	-	-	-	-	-	-	-	-	-
23	-	-	-	-	-	-	-	-	-	-
24	-	-	1	-	-	-	-	-	-	1
25	-	1	3	-	-	-	-	-	-	4
26	-	-	6	-	-	-	-	-	-	6
27	-	-	17	12	-	-	-	-	-	29
28	-	-	4	21	3	-	-	-	-	28
29	-	-	-	39	-	-	-	-	-	39
30	-	-	-	49	37	-	-	-	-	86
31	-	-	-	6	30	10	-	-	-	46
32	-	-	-	-	15	24	4	-	-	43
33	-	-	-	-	-	13	9	-	-	22
34	-	-	-	-	-	2	3	2	-	7
35	-	-	-	-	-	-	-	-	-	-
36	-	-	-	-	-	-	-	2	-	2
No. of Comm. Samples - 5										
Total	16	11	31	127	85	49	16	2	2	339

Year: 1972		Country: USSR		Species: Herring						
Quarter: 3rd		Gear: Otter trawl		Division: 5Z						
Structures used in aging: Otoliths			Reported by: A.S. Noskov & R.P. Volkova							
Length	Age									Total
	2	3	4	5	6	7	8	9	10	
21	9	-	-	-	-	-	-	-	-	9
22	16	-	-	-	-	-	-	-	-	16
23	8	20	-	-	-	-	-	-	-	28
24	-	15	-	-	-	-	-	-	-	15
25	-	14	9	-	-	-	-	-	-	23
26	-	3	36	-	-	-	-	-	-	39
27	-	-	55	27	-	-	-	-	-	82
28	-	-	29	93	1	-	-	-	-	123
29	-	-	-	139	20	-	-	-	-	159
30	-	-	-	105	82	4	-	-	-	191
31	-	-	-	16	91	35	-	-	-	142
32	-	-	-	-	19	79	27	-	-	125
33	-	-	-	-	2	26	39	13	-	80
34	-	-	-	-	-	3	12	17	1	33
35	-	-	-	-	-	-	4	17	3	24
36	-	-	-	-	-	-	-	1	1	2
No. of Comm. Samples - 12										
Total	33	52	129	380	215	147	82	48	5	1091

Year: 1972		Country: USSR		Species: Herring						
Quarter: 4th		Gear: Otter trawl		Division: 5Z						
Structures used in aging: Otoliths			Reported by: A.S. Noskov & R.P. Volkova							
Length	Age									Total
	2	3	4	5	6	7	8	9	10	
20	5	-	-	-	-	-	-	-	-	5
21	5	8	-	-	-	-	-	-	-	13
22	7	15	-	-	-	-	-	-	-	22
23	-	27	-	-	-	-	-	-	-	27
24	-	41	2	-	-	-	-	-	-	43
25	-	24	13	-	-	-	-	-	-	37
26	-	-	44	-	-	-	-	-	-	44
27	-	-	18	3	-	-	-	-	-	21
28	-	-	23	9	-	-	-	-	-	32
29	-	-	-	21	15	-	-	-	-	36
30	-	-	-	10	21	4	-	-	-	35
31	-	-	-	2	12	17	-	-	-	31
32	-	-	-	-	4	26	12	-	-	42
33	-	-	-	-	-	5	14	6	-	25
34	-	-	-	-	-	1	11	6	-	18
35	-	-	-	-	-	-	1	4	-	5
36	-	-	-	-	-	-	-	1	1	2
No. of Comm. Samples - 8										
Total	17	115	100	45	52	53	38	17	1	438

Year: 1972		Country: USSR			Species: Herring	
Quarter: 1st		Gear: Otter trawl			Division: SA 6	
Structures used in aging: Otoliths			Reported by: A.S. Noskov & R.P. Volkova			
Length	Age					Total
	4	5	6	7	8	
26	1	-	-	-	-	1
27	1	4	-	-	-	5
28	1	15	-	-	-	16
29	-	9	1	-	-	10
30	-	20	15	-	-	35
31	-	1	15	9	-	25
32	-	-	1	7	-	8
33	-	-	-	2	3	5
34	-	-	-	-	-	-
35	-	-	-	-	2	2
No. of Comm. Samples - 1						
Total	3	49	32	18	5	107

Year: 1972		Country: USSR			Species: Herring			
Quarter: 2nd		Gear: Otter trawl			Division: SA 6			
Structures used in aging: Otoliths			Reported by: A.S. Noskov & R.P. Volkova					
Length	Age						Total	
	5	6	7	8	9	10		11
28	2	-	-	-	-	-	2	
29	1	1	-	-	-	-	2	
30	16	12	1	-	-	-	29	
31	2	27	18	-	-	-	47	
32	-	6	38	14	-	-	58	
33	-	3	21	31	4	-	59	
34	-	-	2	20	13	-	35	
35	-	-	-	-	2	4	6	
36	-	-	-	-	-	1	1	
No. of Comm. Samples - 5								
Total	21	49	80	65	19	4	1	239

Year: 1972		Country: USA		Species: Herring			
Quarter: 2nd		Gear: Not reported		Division: 5Y (North)			
Structures used in aging: Otoliths			Reported by: V. Anthony				
Length	Age						Total
	2	3	4	5	6	7	
10	5	-	-	-	-	-	5
11	8	-	-	-	-	-	8
12	4	-	-	-	-	-	4
13	8	-	-	-	-	-	8
14	21	-	-	-	-	-	21
15	41	-	-	-	-	-	41
16	102	-	-	-	-	-	102
17	105	-	-	-	-	-	105
18	89	-	-	-	-	-	89
19	61	-	-	-	-	-	61
20	29	-	-	-	-	-	29
21	5	-	-	-	-	-	5
22	-	-	-	-	-	-	-
23	-	1	-	-	-	-	1
24	-	1	-	-	-	-	1
25	-	-	-	-	-	-	-
26	-	-	1	-	-	-	1
27	-	-	-	1	-	-	1
28	-	-	-	4	3	-	7
29	-	-	-	-	6	-	6
30	-	-	-	-	2	-	2
31	-	-	-	-	5	-	5
32	-	-	-	-	1	2	3
33	-	-	-	-	-	2	2
34	-	-	-	-	-	2	2
35	-	-	-	-	-	1	1
No. of Comm. Samples - ?							
Total	478	2	1	5	17	7	510

Year: 1972		Country: USA		Species: Herring			
Quarter: 3rd		Gear: Not reported		Division: 5Y (North)			
Structures used in aging: Otoliths			Reported by: V. Anthony				
Length	Age						Total
	2	3	4	5	6	7	
8	1	-	-	-	-	-	1
9	5	-	-	-	-	-	5
10	3	-	-	-	-	-	3
11	11	-	-	-	-	-	11
12	18	-	-	-	-	-	18
13	26	-	-	-	-	-	26
14	46	-	-	-	-	-	46
15	101	-	-	-	-	-	101
16	188	2	-	-	-	-	190
17	225	-	-	-	-	-	225
18	325	-	-	-	-	-	325
19	363	2	-	-	-	-	365
20	276	5	-	-	-	-	281
21	208	14	-	-	-	-	222
22	74	11	-	-	-	-	85
23	34	4	1	-	-	-	39
24	1	6	3	-	-	-	10
25	-	19	12	-	-	-	31
26	-	32	14	6	-	-	52
27	-	17	8	1	-	-	26
28	-	3	14	6	-	-	23
29	-	-	5	3	2	-	10
30	-	-	1	4	4	-	9
31	-	-	-	1	6	-	7
32	-	-	-	-	1	6	7
33	-	-	-	-	-	5	5
No. of Comm. Samples - 71							
Total	1905	115	58	21	13	11	2123

Year: 1972		Country: USA		Species: Herring			
Quarter: 4th		Gear: Not reported		Division: 5Y (North)			
Structures used in aging: Otoliths			Reported by: V. Anthony				
Length	Age						Total
	1	2	3	4	5	6		7
9	1	-	-	-	-	-	1
10	2	-	-	-	-	-	2
11	2	-	-	-	-	-	2
12	1	-	-	-	-	-	1
13	-	3	-	-	-	-	3
14	1	3	-	-	-	-	4
15	2	9	-	-	-	-	11
16	-	19	-	-	-	-	19
17	-	27	-	-	-	-	27
18	-	31	-	-	-	-	31
19	-	60	-	-	-	-	60
20	-	66	-	-	-	-	66
21	-	53	-	-	-	-	53
22	-	41	-	-	-	-	41
23	-	39	1	-	-	-	40
24	-	6	5	-	-	-	11
25	-	1	5	-	-	-	6
26	-	-	11	-	-	-	11
27	-	-	14	-	-	-	14
28	-	-	5	5	-	-	10
29	-	-	1	4	-	-	5
30	-	-	-	1	-	-	1
31	-	-	-	-	-	-	-
32	-	-	-	-	-	1	1
No. of Comm. Samples - 14							
Total	9	358	42	10	-	-	420

Year: 1972		Country: USA		Species: Herring			
Quarter: 2nd		Gear: Not reported		Division: 5Y (South)			
Structures used in aging: Otoliths			Reported by: V. Anthony				
Length	Age						Total
	3	4	5	6	7	8	
17	2	-	-	-	-	-	2
18	8	-	-	-	-	-	8
19	6	-	-	-	-	-	6
20	6	-	-	-	-	-	6
21	-	-	-	-	-	-	-
22	4	1	-	-	-	-	5
23	4	1	-	-	-	-	5
24	12	5	-	-	-	-	17
25	-	10	-	-	-	-	10
26	-	12	2	-	-	-	14
27	-	9	14	-	-	-	23
28	-	10	17	3	-	-	30
29	-	2	17	23	-	-	42
30	-	-	7	37	-	-	44
31	-	-	1	38	-	-	39
32	-	-	-	10	26	-	36
33	-	-	-	-	26	1	27
34	-	-	-	-	6	4	10
35	-	-	-	-	1	4	5
36	-	-	-	-	-	1	1
No. of Comm. Samples - 11							
Total	42	50	58	111	59	10	330

Year: 1972		Country: USA		Species: Herring				
Quarter: 3rd		Gear: Not reported		Division: 5Y (South)				
Structures used in aging: Otoliths			Reported by: V. Anthony					
Length	Age							Total
	2	3	4	5	6	7	8	
14	2	-	-	-	-	-	-	2
15	2	-	-	-	-	-	-	2
16	14	-	-	-	-	-	-	14
17	5	-	-	-	-	-	-	5
18	8	-	-	-	-	-	-	8
19	9	-	-	-	-	-	-	9
20	15	1	-	-	-	-	-	16
21	4	-	-	-	-	-	-	4
22	1	1	-	-	-	-	-	2
23	2	1	-	-	-	-	-	3
24	-	4	1	-	-	-	-	5
25	-	13	11	-	-	-	-	24
26	-	20	21	3	-	-	-	44
27	-	10	38	4	-	-	-	52
28	-	-	55	10	-	-	-	65
29	-	1	67	43	5	-	-	116
30	-	-	18	92	9	-	-	119
31	-	-	2	53	49	1	-	105
32	-	-	-	7	69	16	-	92
33	-	-	-	-	22	26	1	49
34	-	-	-	-	-	22	4	26
35	-	-	-	-	-	2	10	12
36	-	-	-	-	-	1	2	3
No. of Comm. Samples - 27								
Total	62	51	213	212	154	68	17	777

Year: 1972		Country: USA		Species: Herring						
Quarter: 4th		Gear: Not reported		Division: 5Y (South)						
Structures used in aging: Otoliths			Reported by: V. Anthony							
Length	Age								Total	
	1	2	3	4	5	6	7	8		8+
15	1	-	-	-	-	-	-	-	-	1
16	11	-	-	-	-	-	-	-	-	11
17	7	-	-	-	-	-	-	-	-	7
18	5	-	-	-	-	-	-	-	-	5
19	-	2	-	-	-	-	-	-	-	2
20	-	12	-	-	-	-	-	-	-	12
21	-	7	-	-	-	-	-	-	-	7
22	-	12	-	-	-	-	-	-	-	12
23	-	12	1	-	-	-	-	-	-	13
24	-	5	1	-	-	-	-	-	-	6
25	-	1	3	1	-	-	-	-	-	5
26	-	-	14	2	-	-	-	-	-	16
27	-	-	6	10	-	-	-	-	-	16
28	-	-	3	13	1	-	-	-	-	17
29	-	-	-	14	8	-	-	-	-	22
30	-	-	-	7	29	-	-	-	-	36
31	-	-	-	-	20	12	-	-	-	32
32	-	-	-	-	4	42	3	-	-	44
33	-	-	-	-	1	7	16	2	-	26
34	-	-	-	-	-	1	8	7	-	16
35	-	-	-	-	-	-	-	2	1	3
36	-	-	-	-	-	-	-	-	2	2
No. of Comm. Samples - 11										
Total	24	51	28	47	63	62	27	11	3	316

Year: 1972		Country: Bulgaria		Species: Mackerel											
Quarter: 2nd(May)		Gear: Pelagic trawl		Division: 5Ze											
Structures used in aging: Otoliths		Reported by: I. Ivanov													
Length	Age														Total
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
26	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1
27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	4	1	-	-	-	-	-	-	-	-	-	-	-	-	5
29	1	10	2	-	-	-	-	-	-	-	-	-	-	-	13
30	2	35	5	7	-	-	-	-	-	-	-	-	-	-	49
31	-	40	22	35	-	-	-	-	-	-	-	-	-	-	97
32	-	15	33	89	1	-	-	-	-	-	-	-	-	-	138
33	-	2	16	88	4	-	-	-	-	-	-	-	-	-	110
34	-	-	3	36	5	-	-	-	-	-	-	-	-	-	44
35	-	-	4	8	5	-	-	-	-	-	-	-	-	-	17
36	-	-	-	1	5	-	-	-	-	-	-	-	-	-	6
37	-	-	-	2	3	-	-	-	-	-	-	-	-	-	5
38	-	-	-	-	2	1	1	-	-	-	-	-	-	-	4
39	-	-	-	-	-	-	1	1	-	-	-	-	-	-	2
40	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1
41	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1
42	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
43	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
44	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1
No. of Comm. Samples = 1															
Total	8	103	85	266	25	1	2	1	1	1	-	-	-	1	494

Year: 1972		Country: Bulgaria		Species: Mackerel						
Quarter: 4th(Nov)		Gear: Pelagic trawl		Division: 5Ze						
Structures used in aging: Otoliths		Reported by: I. Ivanov								
Length	Age									Total
	0+	1+	2+	3+	4+	5+	6+	7+	8+	
19	1	-	-	-	-	-	-	-	-	1
20	1	-	-	-	-	-	-	-	-	1
21	4	-	-	-	-	-	-	-	-	4
22	3	-	-	-	-	-	-	-	-	3
23	4	-	-	-	-	-	-	-	-	4
24	1	1	-	-	-	-	-	-	-	2
25	1	8	-	-	-	-	-	-	-	9
26	-	26	-	-	-	-	-	-	-	26
27	-	24	-	-	-	-	-	-	-	24
28	-	8	-	-	-	-	-	-	-	8
29	-	2	1	1	-	-	-	-	-	4
30	-	1	10	10	-	-	-	-	-	21
31	-	1	22	50	2	1	-	-	-	76
32	-	-	14	55	14	24	-	-	-	107
33	-	-	1	23	24	34	1	-	-	83
34	-	-	-	4	13	26	1	-	-	44
35	-	-	-	-	5	21	4	-	-	30
36	-	-	-	-	-	9	5	-	-	14
37	-	-	-	-	-	1	5	-	-	6
38	-	-	-	-	-	-	1	2	-	3
39	-	-	-	-	-	-	-	1	-	1
No. of Comm. Samples = 1										
Total	15	71	48	143	58	116	17	2	1	471

Year: 1972		Country: Bulgaria		Species: Mackerel						
Quarter: 4th(Dec)		Gear: Pelagic trawl		Division: 5Ze						
Structures used in aging: Otoliths		Reported by: I. Ivanov								
Length	Age								Total	
	0+	1+	2+	3+	4+	5+	6+	7+		8+
14	1	-	-	-	-	-	-	-	1	
15	-	-	-	-	-	-	-	-	-	
16	3	-	-	-	-	-	-	-	3	
17	1	-	-	-	-	-	-	-	1	
18	5	-	-	-	-	-	-	-	5	
19	6	-	-	-	-	-	-	-	6	
20	12	-	-	-	-	-	-	-	12	
21	15	-	-	-	-	-	-	-	15	
22	9	-	-	-	-	-	-	-	9	
23	4	3	-	-	-	-	-	-	7	
24	4	82	-	-	-	-	-	-	86	
25	-	279	-	-	-	-	-	-	279	
26	-	179	-	-	-	-	-	-	179	
27	-	59	-	-	-	-	-	-	59	
28	-	8	3	-	-	-	-	-	11	
29	-	-	3	-	-	-	-	-	3	
30	-	-	6	6	-	-	-	-	12	
31	-	-	11	20	4	4	-	-	39	
32	-	-	7	27	8	17	-	-	59	
33	-	-	-	4	14	25	-	-	43	
34	-	-	-	-	6	18	1	-	25	
35	-	-	-	-	4	10	4	-	18	
36	-	-	-	-	-	3	5	-	8	
37	-	-	-	-	-	1	3	-	4	
38	-	-	-	-	-	-	1	1	2	
39	-	-	-	-	-	-	-	1	1	
No. of Comm. Samples = 1										
Total	60	610	30	57	36	78	14	1	1	887

Year: 1972		Country: Bulgaria		Species: Mackerel				
Quarter: 2nd(Jun)		Gear: Pelagic trawl		Division: 5Zw				
Structures used in aging: Otoliths		Reported by: I. Ivanov						
Length	Age						Total	
	1	2	3	4	5	6		7
19	3	-	-	-	-	-	3	
20	4	-	-	-	-	-	4	
21	2	-	-	-	-	-	2	
22	3	-	-	-	-	-	3	
23	4	-	-	-	-	-	4	
24	2	-	-	-	-	-	2	
25	2	-	-	-	-	-	2	
26	-	-	-	-	-	-	-	
27	-	-	-	-	-	-	-	
28	-	5	2	-	-	-	7	
29	-	3	14	2	-	-	19	
30	-	4	32	2	5	-	43	
31	-	6	32	12	9	-	59	
32	-	-	4	8	25	-	37	
33	-	-	-	12	23	3	38	
34	-	-	-	2	22	4	28	
35	-	-	-	-	2	5	7	
36	-	-	-	-	1	5	6	
37	-	-	-	-	2	1	3	
38	-	-	-	-	-	1	1	
No. of Comm. Samples = 1								
Total	20	18	84	38	87	19	2	268

Year: 1972		Country: Bulgaria		Species: Mackerel					
Quarter: 1st(Jan)		Gear: Pelagic trawl		Division: 6A					
Structures used in aging: Otoliths			Reported by: I. Ivanov						
Length	Age							Total	
	1	2	3	4	5	6	7		8
22	1	-	-	-	-	-	-	1	
23	-	-	-	-	-	-	-	-	
24	-	1	-	-	-	-	-	1	
25	-	11	-	-	-	-	-	11	
26	-	41	1	-	-	-	-	42	
27	-	34	8	-	-	-	-	42	
28	-	27	68	-	-	-	-	90	
29	-	6	70	4	1	-	-	81	
30	-	2	40	7	31	-	-	80	
31	-	-	11	24	96	-	-	131	
32	-	-	3	39	120	3	-	165	
33	-	-	1	12	71	9	-	93	
34	-	-	-	5	60	20	-	85	
35	-	-	-	1	14	28	-	43	
36	-	-	-	-	5	20	-	25	
37	-	-	-	-	-	4	-	4	
38	-	-	-	-	-	3	3	7	
39	-	-	-	-	-	-	1	1	
No. of Comm. Samples = 2									
Total	1	117	202	92	398	87	3	2	902

Year: 1972		Country: Bulgaria		Species: Mackerel								
Quarter: 1st(Feb)		Gear: Pelagic trawl		Division: 6A								
Structures used in aging: Otoliths			Reported by: I. Ivanov									
Length	Age											Total
	1	2	3	4	5	6	7	8	9	10	11	
24	1	-	-	-	-	-	-	-	-	-	-	1
25	-	1	-	-	-	-	-	-	-	-	-	1
26	-	1	-	-	-	-	-	-	-	-	-	1
27	-	4	1	-	-	-	-	-	-	-	-	5
28	-	2	13	-	-	-	-	-	-	-	-	15
29	-	7	30	1	2	-	-	-	-	-	-	40
30	-	1	22	1	8	-	-	-	-	-	-	32
31	-	-	11	17	35	1	-	-	-	-	-	64
32	-	-	1	10	61	2	-	-	-	-	-	74
33	-	-	-	8	45	6	-	-	-	-	-	59
34	-	-	-	5	23	8	-	-	-	-	-	36
35	-	-	-	1	8	23	-	-	-	-	-	32
36	-	-	-	-	2	9	-	-	-	-	-	11
37	-	-	-	-	-	8	-	-	-	-	-	8
38	-	-	-	-	-	2	1	1	2	-	-	6
39	-	-	-	-	-	-	-	-	2	2	-	4
40	-	-	-	-	-	-	-	-	-	1	-	1
41	-	-	-	-	-	-	-	-	-	-	2	2
No. of Comm. Samples = 1												
Total	1	16	78	43	184	59	1	1	4	3	2	392

Year: 1972		Country: Bulgaria		Species: Mackerel		
Quarter: 1st (Mar)		Gear: Pelagic trawl		Division: 6A		
Structures used in aging: Otoliths			Reported by: I. Ivanov			
Length	Age					Total
	2	3	4	5	6	
26	2	-	-	-	-	2
27	6	2	-	-	-	8
28	7	33	-	-	-	40
29	7	57	2	3	-	69
30	4	85	4	30	-	123
31	-	25	39	77	1	142
32	-	2	19	104	2	127
33	-	-	11	67	5	83
34	-	-	5	22	6	33
35	-	-	-	3	8	11
36	-	-	-	1	2	3
37	-	-	-	-	3	3
38	-	-	-	-	1	1
No. of Comm. Samples = 1						
Total	26	204	80	307	28	645

Year: 1972		Country: Poland		Species: Mackerel					
Quarter: 1st		Gear: Otter trawl		Division: 5Z					
Structures used in aging: Otoliths				Reported by: S. Ueinski					
Length	Age								Total
	3	4	5	6	7	8	9	10	
28	1	-	-	-	-	-	-	-	1
29	4	-	-	-	-	-	-	-	4
30	5	-	-	-	-	-	-	-	5
31	19	2	1	-	-	-	-	-	22
32	12	2	4	-	-	-	-	-	18
33	13	4	11	-	-	-	-	-	28
34	7	20	26	-	-	-	-	-	53
35	-	8	47	-	-	-	-	-	55
36	-	11	71	7	-	-	-	-	89
37	-	2	48	16	3	-	-	-	69
38	-	-	17	28	4	-	-	-	49
39	-	-	13	15	9	3	-	-	40
40	-	-	3	9	1	-	-	-	13
41	-	-	-	9	1	-	1	1	12
42	-	-	-	3	2	2	3	1	11
43	-	-	-	1	2	-	7	3	13
44	-	-	-	-	-	2	5	2	9
45	-	-	-	-	-	2	1	2	5
46	-	-	-	-	-	-	2	-	2
47	-	-	-	-	-	-	-	1	1
48	-	-	-	-	-	-	-	1	1
No. of Comm. Samples - ?									
Total	61	49	241	88	22	9	19	11	500

Year: 1972		Country: Poland		Species: Mackerel						
Quarter: 2nd		Gear: Otter trawl		Division: 5Z						
Structures used in aging: Otoliths				Reported by: S. Ueinski						
Length	Age								Total	
	2	3	4	5	6	7	8	9		10
29	1	-	-	-	-	-	-	-	1	
30	2	2	-	-	-	-	-	-	4	
31	1	5	2	-	-	-	-	-	8	
32	1	17	1	1	-	-	-	-	20	
33	-	26	5	7	-	-	-	-	38	
34	-	15	10	48	1	-	-	-	74	
35	-	3	16	109	3	2	-	-	133	
36	-	1	17	180	14	4	-	-	212	
37	-	-	4	144	28	13	-	-	189	
38	-	-	1	51	43	11	-	-	106	
39	-	-	-	28	43	12	-	-	83	
40	-	-	-	9	25	19	1	1	56	
41	-	-	-	3	15	8	5	1	32	
42	-	-	-	4	8	6	7	4	37	
43	-	-	-	-	4	3	8	16	44	
44	-	-	-	-	-	-	2	7	20	
45	-	-	-	-	-	-	3	4	7	
46	-	-	-	-	-	-	2	2	5	
47	-	-	-	-	-	-	-	2	6	
48	-	-	-	-	-	-	-	1	1	
49	-	-	-	-	-	-	-	1	1	
No. of Comm. Samples - ?										
Total	5	69	52	584	184	78	28	38	53	1091

Year: 1972		Country: Poland		Species: Mackerel				
Quarter: 3rd		Gear: Otter trawl		Division: 5Z				
Structures used in aging: Otoliths				Reported by: S. Ueinski				
Length	Age						Total	
	2	3	4	5	6	7		8
31	1	-	-	-	-	-	1	
32	-	-	-	-	-	-	-	
33	-	4	2	-	-	-	6	
34	-	10	19	-	-	-	29	
35	-	9	13	2	-	-	24	
36	-	2	6	6	-	-	14	
37	-	-	1	4	1	-	6	
38	-	-	1	1	7	1	10	
39	-	-	-	-	2	-	2	
40	-	-	-	-	2	-	2	
41	-	-	-	-	1	-	1	
42	-	-	-	-	-	1	1	
43	-	-	-	-	-	-	-	
44	-	-	-	-	-	1	1	
No. of Comm. Samples - ?								
Total	1	25	42	13	9	5	2	97

Year: 1972		Country: Poland		Species: Mackerel						
Quarter: 1st		Gear: Otter trawl		Division: SA 6						
Structures used in aging: Otoliths			Reported by: S. Ueinski							
Length	Age									Total
	2	3	4	5	6	7	8	9	10	
29	1	-	-	-	-	-	-	-	-	1
30	-	1	-	-	-	-	-	-	-	1
31	1	7	-	-	-	-	-	-	-	8
32	1	10	-	-	-	-	-	-	-	11
33	-	8	2	1	-	-	-	-	-	11
34	-	2	10	15	-	-	-	-	-	27
35	-	-	7	33	1	-	-	-	-	41
36	-	-	4	35	5	-	-	-	-	44
37	-	-	3	39	7	-	-	-	-	49
38	-	-	-	33	9	3	-	-	-	45
39	-	-	-	10	15	1	-	-	-	26
40	-	-	-	-	8	2	-	-	-	10
41	-	-	-	3	4	2	-	-	-	9
42	-	-	-	-	2	2	-	1	-	5
43	-	-	-	-	-	3	2	1	-	6
44	-	-	-	-	-	2	3	-	-	5
45	-	-	-	-	-	-	-	-	-	-
46	-	-	-	-	-	-	-	1	-	1
No. of Comm. Samples - ?										
Total	3	28	26	169	51	15	5	2	1	300

Year: 1972		Country: Poland		Species: Mackerel							
Quarter: 2nd		Gear: Otter trawl		Division: SA 6							
Structures used in aging: Otoliths			Reported by: S. Ueinski								
Length	Age									Total	
	1	2	3	4	5	6	7	8	9		10
18	1	-	-	-	-	-	-	-	-	1	
19	2	-	-	-	-	-	-	-	-	2	
20	13	-	-	-	-	-	-	-	-	13	
21	34	-	-	-	-	-	-	-	-	34	
22	34	-	-	-	-	-	-	-	-	34	
23	9	-	-	-	-	-	-	-	-	9	
24	5	-	-	-	-	-	-	-	-	5	
25	5	-	-	-	-	-	-	-	-	5	
26	3	-	-	-	-	-	-	-	-	3	
27	1	1	-	-	-	-	-	-	-	2	
28	2	2	-	-	-	-	-	-	-	4	
29	-	4	-	-	-	-	-	-	-	4	
30	-	11	4	-	-	-	-	-	-	15	
31	-	14	18	-	-	-	-	-	-	32	
32	-	5	36	-	-	-	-	-	-	41	
33	-	-	55	7	7	-	-	-	-	69	
34	-	1	25	13	63	1	-	-	-	103	
35	-	-	3	16	85	4	-	-	-	108	
36	-	-	-	22	93	25	2	-	-	142	
37	-	-	-	-	93	34	4	-	-	131	
38	-	-	-	1	32	73	19	-	-	125	
39	-	-	-	-	17	44	33	2	-	96	
40	-	-	-	-	7	20	19	-	-	46	
41	-	-	-	-	-	15	9	2	-	26	
42	-	-	-	-	-	5	8	4	2	23	
43	-	-	-	-	-	-	6	-	7	22	
44	-	-	-	-	-	-	2	-	5	16	
45	-	-	-	-	-	-	1	1	2	10	
46	-	-	-	-	-	-	-	-	2	2	
47	-	-	-	-	-	-	-	-	3	3	
48	-	-	-	-	-	-	-	-	-	-	
49	-	-	-	-	-	-	-	-	1	1	
50	-	-	-	-	-	-	-	-	1	1	
No. of Comm. Samples - ?											
Total	109	38	141	59	397	221	103	9	18	33	1128

Year: 1972		Country: USSR		Species: Mackerel						
Quarter: 1st		Gear: Otter trawl		Division: 5Z						
Structures used in aging: Otoliths			Reported by: A.S. Noskov & V.I. Isakov							
Length	Age									Total
	2	3	4	5	6	7	8	9	10	
26	2	-	-	-	-	-	-	-	-	2
27	6	-	-	-	-	-	-	-	-	6
28	3	7	-	-	-	-	-	-	-	10
29	-	14	1	-	-	-	-	-	-	15
30	-	10	1	1	-	-	-	-	-	12
31	1	7	9	8	-	-	-	-	-	25
32	-	1	10	18	-	-	-	-	-	29
33	-	-	10	17	1	-	-	-	-	28
34	-	1	3	12	1	-	-	-	-	17
35	-	-	3	7	2	-	-	-	-	12
36	-	-	2	7	-	-	-	-	-	9
37	-	-	-	2	2	-	-	-	-	4
38	-	-	-	-	2	-	1	2	1	6
39	-	-	-	-	-	1	-	1	-	2
40	-	-	-	-	-	1	1	1	1	4
41	-	-	-	-	-	-	1	1	-	2
No. of Comm. Samples - 13										
Total	12	40	39	72	8	2	3	5	2	183

Year: 1972		Country: USSR		Species: Mackerel								
Quarter: 2nd		Gear: Otter trawl		Division: 5Z								
Structures used in aging: Otoliths			Reported by: A.S. Noskov & V.I. Isakov									
Length	Age											Total
	1	2	3	4	5	6	7	8	9	10	11	
19	6	-	-	-	-	-	-	-	-	-	-	6
20	5	-	-	-	-	-	-	-	-	-	-	5
21	5	-	-	-	-	-	-	-	-	-	-	5
22	-	-	-	-	-	-	-	-	-	-	-	-
23	-	-	-	-	-	-	-	-	-	-	-	-
24	1	3	-	-	-	-	-	-	-	-	-	4
25	4	2	-	-	-	-	-	-	-	-	-	6
26	2	3	-	-	-	-	-	-	-	-	-	5
27	-	12	5	-	-	-	-	-	-	-	-	17
28	-	10	10	-	-	-	-	-	-	-	-	20
29	-	6	13	1	-	-	-	-	-	-	-	20
30	-	1	29	2	-	-	-	-	-	-	-	32
31	-	-	11	5	6	-	-	-	-	-	-	22
32	-	-	3	10	17	-	-	-	-	-	-	30
33	-	-	-	6	12	3	-	-	-	-	-	21
34	-	-	-	4	13	5	-	-	-	-	-	22
35	-	-	-	-	13	3	-	-	-	-	-	16
36	-	-	-	3	5	9	1	-	-	-	-	18
37	-	-	-	-	3	6	1	-	-	-	-	10
38	-	-	-	-	1	2	-	2	-	-	-	5
39	-	-	-	-	-	1	-	1	1	-	-	3
40	-	-	-	-	-	-	-	-	-	-	-	-
41	-	-	-	-	-	-	-	-	-	-	-	-
42	-	-	-	-	-	-	-	1	-	-	1	2
No. of Comm. Samples - 14												
Total	23	37	71	31	70	29	2	2	3	-	1	269

Year: 1972		Country: USSR		Species: Mackerel							
Quarter: 3rd		Gear: Otter trawl		Division: 5Z							
Structures used in aging: Otoliths			Reported by: A.S. Noskov & V.I. Isakov								
Length	Age									Total	
	<1	1	2	3	4	5	6	7	8		9
20	3	-	-	-	-	-	-	-	-	3	
21	7	-	-	-	-	-	-	-	-	7	
22	1	1	-	-	-	-	-	-	-	2	
23	-	11	-	-	-	-	-	-	-	11	
24	1	6	7	-	-	-	-	-	-	14	
25	-	2	7	-	-	-	-	-	-	9	
26	-	1	11	-	-	-	-	-	-	12	
27	-	-	6	-	-	-	-	-	-	6	
28	-	-	1	1	-	-	-	-	-	2	
29	-	-	11	8	-	-	-	-	-	19	
30	-	-	3	19	4	-	-	-	-	26	
31	-	-	2	18	6	-	-	-	-	26	
32	-	-	-	8	11	7	-	-	-	26	
33	-	-	1	2	12	8	3	-	-	26	
34	-	-	-	-	5	15	2	-	-	22	
35	-	-	-	-	1	21	6	-	-	28	
36	-	-	-	-	2	9	15	1	-	27	
37	-	-	-	-	-	5	13	4	-	22	
38	-	-	-	-	-	2	8	5	1	17	
39	-	-	-	-	-	-	2	10	1	13	
40	-	-	-	-	-	-	4	3	1	7	
41	-	-	-	-	-	-	1	-	2	3	
No. of Comm. Samples - 9											
Total	12	21	49	56	41	67	54	23	5	1	329

Year: 1972		Country: USSR		Species: Mackerel					
Quarter: 4th		Gear: Otter trawl		Division: 5Z					
Structures used in aging: Otoliths			Reported by: A.S. Noskov & V.I. Isakov						
Length	Age							Total	
	<1	1	2	3	4	5	6		7
20	2	-	-	-	-	-	-	2	
21	6	-	-	-	-	-	-	6	
22	1	3	-	-	-	-	-	4	
23	-	1	-	-	-	-	-	1	
24	-	2	-	-	-	-	-	2	
25	-	2	5	-	-	-	-	7	
26	-	-	5	-	-	-	-	5	
27	-	-	5	-	-	-	-	5	
28	-	-	10	1	-	-	-	11	
29	-	-	1	-	-	-	-	1	
30	-	-	3	19	-	-	-	22	
31	-	-	3	18	3	2	-	26	
32	-	-	-	15	15	3	-	33	
33	-	-	-	8	10	5	-	23	
34	-	-	-	1	14	1	-	16	
35	-	-	-	1	5	9	5	20	
36	-	-	-	-	1	1	2	4	
37	-	-	-	-	-	1	-	1	
38	-	-	-	-	-	-	1	1	
No. of Comm. Samples - 6									
Total	9	8	32	63	33	35	8	2	190

Year: 1972		Country: USSR		Species: Mackerel						
Quarter: 1st		Gear: Otter trawl		Division: SA 6						
Structures used in aging: Otoliths		Reported by: A.S. Noskov & V.I. Isakov								
Length	Age									Total
	2	3	4	5	6	7	8	9	10	
26	2	-	-	-	-	-	-	-	-	2
27	6	-	-	-	-	-	-	-	-	6
28	3	7	-	-	-	-	-	-	-	10
29	-	14	1	-	-	-	-	-	-	15
30	-	10	1	1	-	-	-	-	-	12
31	1	7	9	8	-	-	-	-	-	25
32	-	1	10	18	-	-	-	-	-	29
33	-	-	10	17	1	-	-	-	-	28
34	-	1	3	12	1	-	-	-	-	17
35	-	-	3	7	2	-	-	-	-	12
36	-	-	2	7	-	-	-	-	-	9
37	-	-	-	2	2	-	-	-	-	4
38	-	-	-	-	2	-	1	2	1	6
39	-	-	-	-	-	1	-	1	-	2
40	-	-	-	-	-	1	1	1	1	4
41	-	-	-	-	-	1	1	-	-	2
No. of Comm. Samples - 13										
Total	12	40	39	72	8	2	3	5	2	183

Year: 1972		Country: USSR		Species: Mackerel								
Quarter: 2nd		Gear: Otter trawl		Division: SA 6								
Structures used in aging: Otoliths		Reported by: A.S. Noskov & V.I. Isakov										
Length	Age											Total
	1	2	3	4	5	6	7	8	9	10	11	
19	6	-	-	-	-	-	-	-	-	-	-	6
20	5	-	-	-	-	-	-	-	-	-	-	5
21	5	-	-	-	-	-	-	-	-	-	-	5
22	-	-	-	-	-	-	-	-	-	-	-	-
23	-	-	-	-	-	-	-	-	-	-	-	-
24	1	3	-	-	-	-	-	-	-	-	-	4
25	4	2	-	-	-	-	-	-	-	-	-	6
26	2	3	-	-	-	-	-	-	-	-	-	5
27	-	12	5	-	-	-	-	-	-	-	-	17
28	-	10	10	-	-	-	-	-	-	-	-	20
29	-	6	13	1	-	-	-	-	-	-	-	20
30	-	1	29	2	-	-	-	-	-	-	-	32
31	-	-	11	5	6	-	-	-	-	-	-	22
32	-	-	3	10	17	-	-	-	-	-	-	30
33	-	-	-	6	12	3	-	-	-	-	-	21
34	-	-	-	4	13	5	-	-	-	-	-	22
35	-	-	-	-	13	3	-	-	-	-	-	16
36	-	-	-	3	5	9	1	-	-	-	-	18
37	-	-	-	-	3	6	1	-	-	-	-	10
38	-	-	-	-	1	2	-	-	2	-	-	5
39	-	-	-	-	-	1	-	1	1	-	-	3
42	-	-	-	-	-	-	-	1	-	-	1	2
No. of Comm. Samples - 14												
Total	23	37	71	31	70	29	2	2	3	-	1	269

Year: 1972		Country: USSR		Species: Mackerel							
Quarter: 3rd		Gear: Otter trawl		Division: SA 6							
Structures used in aging: Otoliths		Reported by: A.S. Noskov & V.I. Isakov									
Length	Age									Total	
	<1	1	2	3	4	5	6	7	8		9
20	3	-	-	-	-	-	-	-	-	3	
21	7	-	-	-	-	-	-	-	-	7	
22	1	1	-	-	-	-	-	-	-	2	
23	-	11	-	-	-	-	-	-	-	11	
24	1	6	7	-	-	-	-	-	-	14	
25	-	2	7	-	-	-	-	-	-	9	
26	-	1	11	-	-	-	-	-	-	12	
27	-	-	6	-	-	-	-	-	-	6	
28	-	-	1	1	-	-	-	-	-	2	
29	-	-	11	8	-	-	-	-	-	19	
30	-	-	3	19	4	-	-	-	-	26	
31	-	-	2	18	6	-	-	-	-	26	
32	-	-	-	8	11	7	-	-	-	26	
33	-	-	1	2	12	8	3	-	-	26	
34	-	-	-	-	5	15	2	-	-	22	
35	-	-	-	-	1	21	6	-	-	28	
36	-	-	-	-	2	9	15	1	-	27	
37	-	-	-	-	-	5	13	4	-	22	
38	-	-	-	-	-	2	8	5	1	17	
39	-	-	-	-	-	-	2	10	1	13	
40	-	-	-	-	-	-	4	3	1	8	
41	-	-	-	-	-	-	1	-	2	3	
No. of Comm. Samples - ?											
Total	12	21	49	56	41	67	54	23	5	1	329

Year: 1972		Country: USSR		Species: Mackerel					
Quarter: 4th		Gear: Otter trawl		Division: SA 6					
Structures used in aging: Otoliths		Reported by: A.S. Noskov & V.I. Isakov							
Length	Age							Total	
	<1	1	2	3	4	5	6		7
20	2	-	-	-	-	-	-	2	
21	6	-	-	-	-	-	-	6	
22	1	3	-	-	-	-	-	4	
23	-	1	-	-	-	-	-	1	
24	-	2	-	-	-	-	-	2	
25	-	2	5	-	-	-	-	7	
26	-	-	5	-	-	-	-	5	
27	-	-	5	-	-	-	-	5	
28	-	-	10	1	-	-	-	11	
29	-	-	1	-	-	-	-	1	
30	-	-	3	19	-	-	-	22	
31	-	-	3	18	3	2	-	26	
32	-	-	-	15	15	3	-	33	
33	-	-	-	8	10	5	-	23	
34	-	-	-	1	-	14	1	16	
35	-	-	-	1	5	9	5	20	
36	-	-	-	-	-	1	1	2	
37	-	-	-	-	-	1	-	1	
38	-	-	-	-	-	-	1	1	
No. of Comm. Samples - 6									
Total	9	8	32	63	33	35	8	2	190

Year: 1971		Country: Poland				Species: Cod							
Quarter: 1st		Gear: Otter trawl				Division: 2H							
Structures used in aging: Otoliths				Reported by: E. Stanek									
Length	Age											Total	
	2	3	4	5	6	7	8	9	10	11	12		12+
25	1	3	1	-	-	-	-	-	-	-	-	-	5
28	2	4	5	-	-	-	-	-	-	-	-	-	11
31	-	10	14	1	-	-	-	-	-	-	-	-	25
34	-	11	11	1	-	-	-	-	-	-	-	-	23
37	-	5	14	3	-	-	-	-	-	-	-	-	22
40	-	1	5	9	2	-	-	-	-	-	-	-	17
43	-	1	4	6	13	2	-	1	-	-	-	-	27
46	-	-	2	16	32	6	2	1	-	-	-	-	59
49	-	-	-	4	40	23	4	-	-	-	-	-	74
52	-	-	1	1	21	30	16	2	2	1	-	-	77
55	-	-	-	-	19	18	19	7	2	2	1	-	69
58	-	-	-	-	4	17	23	5	5	2	2	-	58
61	-	-	-	-	2	7	9	18	10	5	4	3	58
64	-	-	-	-	-	1	4	3	5	4	5	3	25
67	-	-	-	-	-	1	1	2	2	3	3	7	19
70	-	-	-	-	-	-	1	1	2	3	2	9	18
73	-	-	-	-	-	-	1	1	1	2	1	1	7
76	-	-	-	-	-	-	-	-	1	-	1	2	4
79	-	-	-	-	-	-	-	-	-	-	-	2	2
82	-	-	-	-	-	-	-	-	-	-	-	1	1
85	-	-	-	-	-	-	-	-	-	-	-	1	1
No. of Comm. Samples - ?													
Total	3	35	57	48	133	105	80	41	30	22	19	29	602

Year: 1971		Country: Poland				Species: Cod							
Quarter: 1st		Gear: Otter trawl				Division: 2J							
Structures used in aging: Otoliths				Reported by: E. Stanek									
Length	Age											Total	
	2	3	4	5	6	7	8	9	10	11	12		12+
22	2	15	-	-	-	-	-	-	-	-	-	-	17
25	1	16	3	-	-	-	-	-	-	-	-	-	20
28	1	17	4	1	-	-	-	-	-	-	-	-	23
31	-	2	13	5	-	-	-	-	-	-	-	-	20
34	-	1	17	8	-	-	-	-	-	-	-	-	26
37	-	1	6	15	2	-	-	-	-	-	-	-	24
40	-	-	5	29	4	1	-	-	-	-	-	-	39
43	-	-	-	24	6	1	1	1	-	-	-	-	33
46	-	-	1	14	25	12	2	-	-	-	-	-	54
49	-	-	-	13	36	35	4	-	-	-	-	-	88
52	-	-	-	5	27	49	15	1	-	-	-	-	97
55	-	-	-	1	20	46	22	6	3	1	-	-	99
58	-	-	-	1	17	41	16	6	2	1	-	-	84
61	-	-	-	-	8	19	15	7	2	1	2	1	54
64	-	-	-	-	2	12	13	7	4	2	1	2	44
67	-	-	-	-	-	5	6	5	2	-	-	2	20
70	-	-	-	-	-	1	1	2	1	1	1	-	9
73	-	-	-	-	-	-	1	1	2	2	-	1	7
76	-	-	-	-	-	-	1	-	2	1	-	-	4
79	-	-	-	-	-	-	-	-	1	-	-	-	2
82	-	-	-	-	-	-	-	-	-	1	-	-	2
85	-	-	-	-	-	-	-	-	-	-	2	-	2
88	-	-	-	-	-	-	-	-	-	-	-	1	1
91	-	-	-	-	-	-	-	-	-	-	-	-	1
94	-	-	-	-	-	-	-	-	-	-	-	1	1
No. of Comm. Samples - ?													
Total	4	52	49	116	148	223	97	38	19	8	6	10	770

Year: 1971		Country: Poland				Species: Cod							
Quarter: 1st & 2nd		Gear: Otter trawl				Division: 3K							
Structures used in aging: Otoliths				Reported by: E. Stanek									
Length	Age											Total	
	2	3	4	5	6	7	8	9	10	11	12		13
22	1	1	-	-	-	-	-	-	-	-	-	-	2
25	1	2	-	-	-	-	-	-	-	-	-	-	3
28	-	3	-	-	-	-	-	-	-	-	-	-	3
31	-	2	5	1	-	-	-	-	-	-	-	-	8
34	-	1	8	7	-	-	-	-	-	-	-	-	16
37	-	1	13	14	2	-	-	-	-	-	-	-	30
40	-	-	9	23	9	1	-	-	-	-	-	-	42
43	-	-	6	29	15	2	-	-	-	-	-	-	52
46	-	-	3	28	28	12	1	-	-	-	-	-	72
49	-	-	2	16	40	3	1	-	-	-	-	-	62
52	-	-	1	12	70	45	9	1	-	-	-	-	138
55	-	-	-	6	57	52	12	3	1	1	-	-	132
58	-	-	-	3	31	52	16	2	1	-	-	-	105
61	-	-	-	-	17	38	16	5	2	-	-	-	78
64	-	-	-	1	8	18	10	2	2	3	-	-	44
67	-	-	-	-	1	4	7	3	1	1	1	-	18
70	-	-	-	-	1	3	4	3	1	2	-	-	14
73	-	-	-	-	-	2	1	1	1	-	1	-	5
76	-	-	-	-	-	1	-	2	1	-	-	-	4
79	-	-	-	-	-	-	1	2	3	1	1	-	8
82	-	-	-	-	-	-	-	1	-	-	1	1	3
85	-	-	-	-	-	-	-	1	-	-	-	-	1
88	-	-	-	-	-	-	-	-	1	-	-	-	1
No. of Comm. Samples - ?													
Total	2	10	47	140	279	231	79	24	14	10	4	1	841

Year: 1971		Country: USA		Species: Herring					
Quarter: 2nd		Gear: Not reported		Division: 5Y (North)					
Structures used in aging: Otoliths			Reported by: V. Anthony						
Length	Age								Total
	2	3	4	5	6	7	8	9	
12	1	-	-	-	-	-	-	-	1
13	5	-	-	-	-	-	-	-	5
14	17	-	-	-	-	-	-	-	17
15	20	-	-	-	-	-	-	-	20
16	20	2	-	-	-	-	-	-	22
17	19	3	-	-	-	-	-	-	22
18	16	1	-	-	-	-	-	-	17
19	6	3	-	-	-	-	-	-	9
20	-	5	-	-	-	-	-	-	5
21	-	6	-	-	-	-	-	-	6
22	-	1	-	-	-	-	-	-	1
28	-	-	-	1	-	-	-	-	1
29	-	-	-	-	10	-	-	-	10
30	-	-	-	-	2	1	-	-	3
31	-	-	-	-	-	3	1	-	4
32	-	-	-	-	-	-	4	-	4
33	-	-	-	-	-	-	-	1	1
34	-	-	-	-	-	-	-	2	2
No. of Comm. Samples - 6									
Total	104	21	-	1	12	4	5	3	150

Year: 1971		Country: USA		Species: Herring			
Quarter: 3rd		Gear: Not reported		Division: 5Y (North)			
Structures used in aging: Otoliths			Reported by: V. Anthony				
Length	Age						Total
	1	2	3	4	5	6	
9	10	-	-	-	-	-	10
10	33	-	-	-	-	-	33
11	42	-	-	-	-	-	42
12	24	-	-	-	-	-	24
13	15	3	-	-	-	-	18
14	7	4	-	-	-	-	11
15	-	14	-	-	-	-	14
16	-	39	-	-	-	-	39
17	-	57	1	-	-	-	58
18	-	36	7	-	-	-	43
19	-	43	3	-	-	-	46
20	-	40	13	-	-	-	53
21	-	21	12	-	-	-	33
22	-	8	10	-	-	-	18
23	-	3	13	1	-	-	17
24	-	-	16	6	-	-	22
25	-	-	13	19	-	-	32
26	-	-	7	29	-	-	36
27	-	-	2	19	1	-	22
28	-	-	1	14	7	-	22
29	-	-	-	5	10	-	15
30	-	-	-	1	10	-	11
31	-	-	-	-	3	-	3
32	-	-	-	-	-	2	2
33	-	-	-	-	1	-	1
No. of Comm. Samples - 25							
Total	125	268	98	94	32	2	619

Year: 1971		Country: USA		Species: Herring	
Quarter: 4th		Gear: Not reported		Division: 5Y (North)	
Structures used in aging: Otoliths			Reported by: V. Anthony		
Length	Age			Total	
	1	2	3		
8	3	-	-	3	
9	45	-	-	45	
10	20	-	-	20	
11	30	-	-	30	
12	33	-	-	33	
13	28	-	-	28	
14	54	-	-	54	
15	48	8	-	56	
16	15	2	-	17	
17	-	1	-	1	
18	-	5	-	5	
19	-	1	-	1	
20	-	11	-	11	
21	-	14	-	14	
22	-	5	1	6	
23	-	1	-	1	
No. of Comm. Samples - 13					
Total	276	48	1	325	

Year: 1971		Country: Bulgaria		Species: Mackerel							
Quarter: 1st		Gear: Pelagic trawl		Division: 6C, 6B, 5Zw, 5Ze							
Structures used in aging: Otoliths			Reported by: L. Ivanov								
Length	Age										Total
	1	2	3	4	5	6	7	8	9	10	
19	2	-	-	-	-	-	-	-	-	-	2
20	6	-	-	-	-	-	-	-	-	-	6
21	12	1	-	-	-	-	-	-	-	-	13
22	5	3	-	-	-	-	-	-	-	-	8
23	2	22	-	-	-	-	-	-	-	-	24
24	1	98	-	-	-	-	-	-	-	-	99
25	-	123	-	-	-	-	-	-	-	-	123
26	-	64	1	-	-	-	-	-	-	-	65
27	-	38	1	1	-	-	-	-	-	-	40
28	-	10	7	16	-	-	-	-	-	-	33
29	-	-	15	77	-	-	-	-	-	-	92
30	-	-	12	117	1	-	-	-	-	-	130
31	-	-	12	85	3	-	-	-	-	-	100
32	-	-	7	69	8	-	-	-	-	-	84
33	-	-	2	43	22	-	-	-	-	-	67
34	-	-	-	30	31	-	-	-	-	-	61
35	-	-	-	8	15	-	-	-	-	-	23
36	-	-	-	1	5	2	-	-	-	-	8
37	-	-	-	-	1	1	2	-	-	-	4
38	-	-	-	-	-	1	3	6	1	-	11
39	-	-	-	-	-	-	1	1	2	1	5
40	-	-	-	-	-	-	-	-	1	1	2
No. of Comm. Samples = 4											
Total	28	359	57	447	86	4	6	7	4	2	1000

Year: 1971		Country: Bulgaria		Species: Mackerel							
Quarter: 2nd		Gear: Pelagic trawl		Division: 5Zw							
Structures used in aging: Otoliths			Reported by: L. Ivanov								
Length	Age									Total	
	1	2	3	4	5	6	7	8	9		
20	4	-	-	-	-	-	-	-	-	4	
21	13	-	-	-	-	-	-	-	-	13	
22	70	2	-	-	-	-	-	-	-	72	
23	80	36	-	-	-	-	-	-	-	116	
24	45	59	-	-	-	-	-	-	-	104	
25	13	89	-	-	-	-	-	-	-	102	
26	2	194	-	-	-	-	-	-	-	196	
27	-	102	2	-	-	-	-	-	-	104	
28	-	36	3	2	-	-	-	-	-	41	
29	-	9	9	18	-	-	-	-	-	36	
30	-	2	13	57	-	-	-	-	-	72	
31	-	-	7	54	-	-	-	-	-	61	
32	-	-	3	20	1	-	-	-	-	24	
33	-	-	2	22	3	-	-	-	-	27	
34	-	-	2	7	5	-	-	-	-	14	
35	-	-	-	5	5	-	-	-	-	10	
36	-	-	-	1	1	-	-	-	-	2	
37	-	-	-	-	-	-	-	-	-	-	
38	-	-	-	-	-	-	-	1	-	1	
39	-	-	-	-	-	-	-	-	1	1	
No. of Comm. Samples = 3											
Total	227	529	41	186	15	-	-	1	1	1000	

Year: 1971		Country: Bulgaria		Species: Mackerel		
Quarter: 4th		Gear: Pelagic trawl		Division: 5Zw		
Structures used in aging: Otoliths			Reported by: L. Ivanov			
Length	Age					Total
	1+	2+	3+	4+	5+	
27	7	4	-	-	-	11
28	22	70	-	-	-	92
29	14	135	4	-	-	153
30	4	88	14	27	-	133
31	-	32	47	67	-	146
32	-	5	52	84	5	146
33	-	-	22	92	16	130
34	-	-	12	72	22	106
35	-	-	-	25	36	61
36	-	-	-	2	13	15
37	-	-	-	-	7	7
No. of Comm. Samples = 1						
Total	47	334	151	369	99	1000

Year: 1971		Country: USSR		Species: Mackerel								
Quarter: 2nd		Gear: Otter trawl		Division: 5Z								
Structures used in aging: Otoliths		Reported by: A.S. Noskov & V.I. Isakov										
Length	Age											Total
	1	2	3	4	5	6	7	8	9	10	11	
21	3	7	-	-	-	-	-	-	-	-	-	10
22	3	13	-	-	-	-	-	-	-	-	-	16
23	5	14	-	-	-	-	-	-	-	-	-	19
24	3	11	2	-	-	-	-	-	-	-	-	16
25	1	15	3	-	-	-	-	-	-	-	-	19
26	1	21	15	-	-	-	-	-	-	-	-	37
27	-	14	16	-	-	-	-	-	-	-	-	30
28	-	4	9	2	-	-	-	-	-	-	-	15
29	-	-	9	11	-	-	-	-	-	-	-	20
30	-	-	-	26	1	-	-	-	-	-	-	27
31	-	-	-	84	7	-	-	-	-	-	-	91
32	-	-	1	51	24	2	-	-	-	-	-	78
33	-	-	-	23	27	1	-	-	-	-	-	51
34	-	-	-	2	13	8	-	-	-	-	-	23
35	-	-	-	1	4	6	1	-	-	-	-	12
36	-	-	-	1	2	4	2	-	-	-	-	9
37	-	-	-	-	-	-	3	1	-	-	1	5
38	-	-	-	-	-	-	5	1	2	-	-	8
39	-	-	-	-	-	-	-	1	1	3	1	6
40	-	-	-	-	-	-	-	-	-	1	2	3
41	-	-	-	-	-	-	-	-	-	-	1	1
42	-	-	-	-	-	-	-	-	-	-	1	1
No. of Comm. Samples - 5												
Total	16	99	55	201	78	21	11	3	3	4	6	497

Year: 1971		Country: USSR		Species: Mackerel			
Quarter: 3rd		Gear: Otter trawl		Division: 5Z			
Structures used in aging: Otoliths		Reported by: A.S. Noskov & V.I. Isakov					
Length	Age						Total
	1	2	3	4	5	6	
24	1	-	-	-	-	-	1
25	1	1	-	-	-	-	2
26	2	4	-	-	-	-	6
27	-	19	-	-	-	-	19
28	-	21	6	-	-	-	27
29	-	17	4	3	-	-	24
30	-	7	9	27	1	-	44
31	-	-	9	28	2	-	39
32	-	-	3	23	9	-	35
33	-	-	-	24	12	1	37
34	-	-	-	10	18	-	28
35	-	-	-	3	9	3	15
36	-	-	-	1	7	2	10
37	-	-	-	-	3	2	5
38	-	-	-	-	1	-	1
No. of Comm. Samples - 3							
Total	4	69	31	119	62	8	293

Year: 1971		Country: USSR		Species: Mackerel						
Quarter: 4th		Gear: Otter trawl		Division: 5Z						
Structures used in aging: Otoliths		Reported by: A.S. Noskov & V.I. Isakov								
Length	Age								Total	
	<1	1	2	3	4	5	6	7		8
22	5	-	-	-	-	-	-	-	-	5
23	11	-	-	-	-	-	-	-	-	11
24	6	2	-	-	-	-	-	-	-	8
25	1	-	-	-	-	-	-	-	-	1
26	-	1	2	-	-	-	-	-	-	3
27	-	3	15	1	-	-	-	-	-	19
28	-	1	16	1	-	-	-	-	-	18
29	-	-	12	3	1	-	-	-	-	16
30	-	-	8	5	6	-	-	-	-	19
31	-	-	1	4	7	1	-	-	-	13
32	-	-	1	1	21	4	-	-	-	27
33	-	-	-	2	20	6	-	-	-	28
34	-	-	-	1	16	3	-	-	-	20
35	-	-	-	-	6	8	4	-	-	18
36	-	-	-	-	2	14	2	-	-	18
37	-	-	-	-	-	5	2	-	-	7
38	-	-	-	1	-	4	5	1	-	11
39	-	-	-	-	-	1	1	2	1	5
No. of Comm. Samples - 3										
Total	23	7	55	19	79	46	14	3	1	247

Year: 1971		Country: USSR		Species: Mackerel									
Quarter: 1st		Gear: Otter trawl		Division: SA 6									
Structures used in aging: Otoliths			Reported by: A.S. Noskov & V.I. Isakov										
Length	Age												Total
	1	2	3	4	5	6	7	8	9	10	11	12	
19	3	-	-	-	-	-	-	-	-	-	-	-	3
20	21	-	-	-	-	-	-	-	-	-	-	-	21
21	19	-	-	-	-	-	-	-	-	-	-	-	19
22	13	4	-	-	-	-	-	-	-	-	-	-	17
23	5	13	-	-	-	-	-	-	-	-	-	-	18
24	-	21	1	-	-	-	-	-	-	-	-	-	22
25	-	41	10	-	-	-	-	-	-	-	-	-	51
26	-	27	6	-	-	-	-	-	-	-	-	-	33
27	-	8	3	-	-	-	-	-	-	-	-	-	11
28	-	-	3	10	-	-	-	-	-	-	-	-	13
29	-	-	3	31	1	-	-	-	-	-	-	-	35
30	-	-	5	52	2	-	-	-	-	-	-	-	59
31	-	-	1	39	8	-	-	-	-	-	-	-	48
32	-	-	-	33	14	1	-	-	-	-	-	-	48
33	-	-	2	10	23	2	-	-	-	-	-	-	37
34	-	-	-	7	20	1	-	-	-	-	-	-	28
35	-	-	-	-	7	4	1	-	-	-	-	-	12
36	-	-	-	-	3	3	-	-	-	-	-	-	6
37	-	-	-	-	-	-	-	-	1	-	-	-	1
38	-	-	-	-	-	1	-	-	1	1	-	-	3
39	-	-	-	-	-	1	3	2	1	2	-	-	9
40	-	-	-	-	-	-	-	-	1	1	1	-	3
41	-	-	-	-	-	-	-	-	-	-	1	-	1
42	-	-	-	-	-	-	-	-	-	-	1	-	1
43	-	-	-	-	-	-	-	-	1	-	-	-	1
No. of Comm. Samples - 5													
Total	61	114	34	182	78	13	4	2	2	6	3	1	500

Year: 1971		Country: USSR		Species: Mackerel									
Quarter: 2nd		Gear: Otter trawl		Division: SA 6									
Structures used in aging: Otoliths			Reported by: A.S. Noskov & V.I. Isakov										
Length	Age											Total	
	1	2	3	4	5	6	7	8	9	10	11		
22	4	-	-	-	-	-	-	-	-	-	-	4	
23	1	-	-	-	-	-	-	-	-	-	-	1	
24	1	10	-	-	-	-	-	-	-	-	-	11	
25	1	37	2	-	-	-	-	-	-	-	-	40	
26	-	60	8	-	-	-	-	-	-	-	-	68	
27	-	19	19	-	-	-	-	-	-	-	-	38	
28	-	2	8	2	-	-	-	-	-	-	-	12	
29	-	-	3	15	-	-	-	-	-	-	-	18	
30	-	-	-	46	-	-	-	-	-	-	-	46	
31	-	-	1	36	4	-	-	-	-	-	-	41	
32	-	-	-	12	14	-	-	-	-	-	-	26	
33	-	-	-	5	20	-	-	-	-	-	-	25	
34	-	-	-	1	16	-	-	-	-	-	-	17	
35	-	-	-	2	12	9	1	-	-	-	-	24	
36	-	-	-	-	4	4	1	-	-	-	-	9	
37	-	-	-	-	-	1	4	1	1	-	-	7	
38	-	-	-	-	-	-	-	2	-	-	-	2	
39	-	-	-	-	-	-	-	2	4	1	-	7	
40	-	-	-	-	-	-	-	-	-	2	-	2	
No. of Comm. Samples - 4													
Total	7	128	41	119	70	14	6	1	5	4	3	398	

Year: 1971		Country: USSR		Species: Mackerel			
Quarter: 4th		Gear: Otter trawl		Division: SA 6			
Structures used in aging: Otoliths			Reported by: A.S. Noskov & V.I. Isakov				
Length	Age						Total
	1	2	3	4	5	6	
28	1	5	-	-	-	-	6
29	-	10	1	-	-	-	11
30	-	1	3	1	-	-	5
31	-	-	-	4	-	-	4
32	-	-	3	6	-	-	9
33	-	-	-	7	-	-	7
34	-	-	-	7	1	-	8
35	-	-	-	1	3	-	4
41	-	-	-	-	-	1	1
No. of Comm. Samples - 1							
Total	1	16	7	26	4	1	55

Year: 1970		Country: Poland		Species: Herring							
Quarter: 3rd		Gear: Not reported		Division: 4X							
Structures used in aging: Otoliths			Reported by: B. Draganik								
Length	Age										Total
	3	4	5	6	7	8	9	10	10+		
28	-	-	2	1	-	-	-	-	-	-	3
29	1	-	-	-	-	-	-	-	-	-	1
30	-	-	3	2	1	1	-	-	-	-	7
31	-	-	-	4	18	2	1	-	-	-	25
32	-	-	1	4	46	6	1	-	-	-	58
33	-	-	-	1	29	7	4	-	-	-	41
34	-	-	-	-	1	11	7	3	-	-	22
35	-	-	-	-	-	1	-	2	2	-	5
36	-	-	-	-	-	1	1	4	-	-	6
37	-	-	-	-	-	-	-	-	1	-	1
38	-	-	-	-	-	-	-	1	1	-	2
No. of Res. Samples - ?											
Total	1	-	6	12	95	28	15	10	4		171

Year: 1970		Country: Poland		Species: Herring							
Quarter: 2nd		Gear: Not reported		Division: 5Zw							
Structures used in aging: Otoliths			Reported by: B. Draganik								
Length	Age										Total
	2	3	4	5	6	7	8	9	10	10+	
16	1	-	-	-	-	-	-	-	-	-	1
17	9	-	-	-	-	-	-	-	-	-	9
18	17	-	-	-	-	-	-	-	-	-	17
19	19	3	-	-	-	-	-	-	-	-	22
20	13	8	-	-	-	-	-	-	-	-	21
21	2	20	-	-	-	-	-	-	-	-	22
22	-	37	3	-	-	-	-	-	-	-	40
23	-	33	8	-	-	-	-	-	-	-	41
24	-	36	8	-	-	-	-	-	-	-	44
25	-	40	14	-	-	-	-	-	-	-	54
26	-	17	56	1	-	-	-	-	-	-	74
27	-	1	173	8	-	-	-	-	-	-	182
28	-	-	207	41	-	-	-	-	-	-	248
29	-	-	152	130	4	-	-	-	-	-	286
30	-	-	16	148	28	-	-	-	-	-	192
31	-	-	-	41	92	19	1	1	-	-	154
32	-	-	-	6	48	131	38	24	10	-	257
33	-	-	-	-	4	82	104	78	90	-	358
34	-	-	-	-	-	8	49	92	129	3	281
35	-	-	-	-	-	1	5	34	66	4	110
36	-	-	-	-	-	-	1	1	16	1	19
37	-	-	-	-	-	-	-	-	1	-	1
No. of Comm. Samples - 25											
Total	61	195	637	375	176	241	198	230	312	8	2433

Year: 1970		Country: Poland		Species: Herring						
Quarter: 2nd		Gear: Not reported		Division: 6A						
Structures used in aging: Otoliths			Reported by: B. Draganik							
Length	Age								Total	
	4	5	6	7	8	9	10	10+		
28	1	-	-	-	-	-	-	-	-	1
29	3	1	-	-	-	-	-	-	-	4
30	1	7	2	2	-	-	-	-	-	12
31	-	8	9	2	-	-	-	-	-	19
32	-	-	12	13	5	1	1	-	-	32
33	-	-	4	11	24	14	9	-	-	62
34	-	-	-	2	10	25	8	-	-	45
35	-	-	-	-	-	3	5	3	-	11
36	-	-	-	-	-	-	1	-	-	1
No. of Comm. Samples - ?										
Total	5	16	27	30	39	43	24	3		187

Year: 1970		Country: Bulgaria		Species: Mackerel		Year: 1969		Country: Bulgaria		Species: Mackerel												
Quarter: 1st & 2nd		Gear: Pelagic trawl		Division: 6B		Quarter: 3rd		Gear: Pelagic trawls		Division: 6B												
Structures used in aging: Otoliths				Reported by: L. Ivanov				Structures used in aging: Otoliths				Reported by: L. Ivanov										
Length	Age									Total	Length	Age									Total	
	2	3	4	5	6	7	8	9	10			1	2	3	4	5	6	7	8	9		10
25	2	5	-	-	-	-	-	-	-	-	7	21	-	2	-	-	-	-	-	-	-	2
26	2	110	-	-	-	-	-	-	-	-	112	22	2	20	-	-	-	-	-	-	-	22
27	3	224	2	-	-	-	-	-	-	-	229	23	-	204	-	-	-	-	-	-	-	204
28	-	205	2	-	-	-	-	-	-	-	207	24	-	292	-	-	-	-	-	-	-	292
29	9	105	9	-	-	-	-	-	-	-	123	25	-	224	-	-	-	-	-	-	-	224
30	-	91	15	-	-	-	-	-	-	-	106	26	-	90	-	-	-	-	-	-	-	90
31	-	38	23	-	-	-	-	-	-	-	61	27	-	38	6	-	-	-	-	-	-	44
32	-	11	71	-	-	-	-	-	-	-	82	28	-	18	18	-	-	-	-	-	-	36
33	-	2	34	-	-	-	-	-	-	-	36	29	-	24	-	-	-	-	-	-	-	24
34	-	-	21	4	-	-	-	-	-	-	25	30	-	8	-	-	-	-	-	-	-	8
35	-	-	-	-	-	-	-	-	-	-	-	31	-	10	-	-	-	-	-	-	-	10
36	-	-	-	2	-	-	-	-	-	-	2	32	-	4	2	-	-	-	-	-	-	6
37	-	-	-	-	4	-	-	-	-	-	4	33	-	-	4	-	-	-	-	-	-	4
38	-	-	-	-	-	2	-	-	-	-	2	34	-	-	2	-	-	-	-	-	-	2
39	-	-	-	-	-	-	-	2	-	-	2	35	-	-	-	2	-	-	-	-	-	2
40	-	-	-	-	-	-	-	-	2	-	2	36	-	-	-	2	-	-	-	-	-	2
												37	-	-	-	-	2	2	2	-	-	6
												38	-	-	-	-	-	2	4	6	2	14
												39	-	-	-	-	-	-	2	4	-	6
												40	-	-	-	-	-	-	-	-	2	2
No. of Comm. Samples = 3											No. of Comm. Samples = 1											
Total	16	791	177	6	4	2	-	2	2	1000	Total	2	888	70	8	4	2	4	8	10	4	1000

Year: 1970		Country: USSR		Species: Mackerel							
Quarter: 1st		Gear: Otter trawl		Division: 5Z							
Structures used in aging: Otoliths			Reported by: A.S. Noskov & V.I. Isakov								
Length	Age										Total
	1	2	3	4	5	6	7	8	9	10	
19	2	-	-	-	-	-	-	-	-	-	2
20	6	1	-	-	-	-	-	-	-	-	7
21	14	-	-	-	-	-	-	-	-	-	14
22	6	-	-	-	-	-	-	-	-	-	6
23	5	-	-	-	-	-	-	-	-	-	5
24	-	-	-	-	-	-	-	-	-	-	-
25	-	1	1	-	-	-	-	-	-	-	2
26	-	2	-	-	-	-	-	-	-	-	2
27	-	1	7	-	-	-	-	-	-	-	8
28	-	1	20	1	-	-	-	-	-	-	22
29	-	-	12	-	-	-	-	-	-	-	12
30	-	-	4	-	-	-	-	-	-	-	4
31	-	-	3	-	-	-	-	-	-	-	3
32	-	-	-	-	-	-	-	-	-	-	-
33	-	-	1	2	-	-	-	-	-	-	3
34	-	-	1	1	-	-	-	-	-	-	2
35	-	-	-	1	-	-	-	-	-	-	1
36	-	-	-	1	-	-	-	-	-	-	1
39	-	-	-	-	-	-	-	-	1	-	1
40	-	-	-	-	-	-	-	1	-	-	1
41	-	-	-	-	-	1	-	-	-	-	1
42	-	-	-	-	-	1	1	-	-	-	2
No. of Comm. Samples - 1											
Total	33	6	49	6	-	-	2	1	1	1	99

Year: 1970		Country: USSR		Species: Mackerel								
Quarter: 2nd		Gear: Otter trawl		Division: 5Z								
Structures used in aging: Otoliths			Reported by: A.S. Noskov & V.I. Isakov									
Length	Age											Total
	2	3	4	5	6	7	8	9	10	11		
26	-	2	-	-	-	-	-	-	-	-	-	2
27	1	14	-	-	-	-	-	-	-	-	-	15
28	2	122	7	-	-	-	-	-	-	-	-	131
29	-	159	18	-	-	-	-	-	-	-	-	177
30	-	75	14	-	-	-	-	-	-	-	-	89
31	-	33	10	1	-	-	-	-	-	-	-	44
32	-	14	25	5	-	-	-	-	-	-	-	44
33	-	12	21	10	1	-	-	-	-	-	-	44
34	-	9	25	9	-	-	-	-	-	-	-	43
35	-	6	23	10	1	1	1	-	-	-	-	42
36	-	2	8	8	4	-	1	1	-	-	-	24
37	-	-	5	15	9	6	9	3	4	-	-	51
38	-	-	-	6	6	6	13	16	5	-	-	52
39	-	-	1	5	5	11	22	13	11	1	-	69
40	-	-	-	-	2	4	4	9	2	1	-	22
41	-	-	-	-	-	1	1	3	2	-	-	7
42	-	-	-	-	-	-	-	1	-	-	-	4
No. of Comm. Samples - 9												
Total	3	448	157	69	28	29	51	46	27	2	860	

Year: 1970		Country: USSR		Species: Mackerel						
Quarter: 4th		Gear: Otter trawl		Division: 5Z						
Structures used in aging: Otoliths			Reported by: A.S. Noskov & V.I. Isakov							
Length	Age								Total	
	1	2	3	4	5	6	7	8		9
22	1	-	-	-	-	-	-	-	-	1
23	8	-	-	-	-	-	-	-	-	8
24	38	1	-	-	-	-	-	-	-	39
25	59	4	-	-	-	-	-	-	-	63
26	67	11	1	-	-	-	-	-	-	79
27	38	13	-	-	-	-	-	-	-	51
28	19	18	14	-	-	-	-	-	-	51
29	7	20	41	-	-	-	-	-	-	68
30	1	22	71	2	-	-	-	-	-	96
31	-	18	82	4	-	-	-	-	-	104
32	-	9	52	12	-	-	-	-	-	73
33	-	-	27	9	-	-	-	-	-	36
34	-	1	11	6	-	1	-	-	-	19
35	-	-	2	2	-	-	-	-	-	4
36	-	-	-	-	-	-	-	-	-	-
37	-	-	-	-	1	1	-	1	-	3
No. of Comm. Samples - 7										
Total	238	117	301	35	-	2	1	-	1	695

Year: 1970		Country: USSR		Species: Mackerel								
Quarter: 1st		Gear: Otter trawl		Division: SA 6								
Structures used in aging: Otoliths			Reported by: A.S. Noskov & V.I. Isakov									
Length	Age										Total	
	1	2	3	4	5	6	7	8	9	10		11
17	2	-	-	-	-	-	-	-	-	-	-	2
18	7	1	-	-	-	-	-	-	-	-	-	8
19	10	-	-	-	-	-	-	-	-	-	-	10
20	10	2	-	-	-	-	-	-	-	-	-	12
21	9	-	-	-	-	-	-	-	-	-	-	9
22	4	2	-	-	-	-	-	-	-	-	-	6
23	-	-	-	-	-	-	-	-	-	-	-	-
24	-	-	2	-	-	-	-	-	-	-	-	2
25	-	3	-	-	-	-	-	-	-	-	-	3
26	-	4	13	-	-	-	-	-	-	-	-	17
27	-	1	25	-	-	-	-	-	-	-	-	26
28	-	3	43	4	-	-	-	-	-	-	-	50
29	-	-	55	6	-	-	-	-	-	-	-	61
30	-	-	38	12	-	-	-	-	-	-	-	50
31	-	-	43	37	-	-	-	-	-	-	-	80
32	-	-	21	37	5	-	-	-	-	-	-	63
33	-	-	13	51	3	-	-	-	-	-	-	67
34	-	-	6	23	7	1	-	-	-	-	-	37
35	-	-	3	7	2	1	1	-	-	-	-	14
36	-	-	-	2	6	2	1	1	-	-	-	12
37	-	-	-	-	2	3	1	4	4	-	-	14
38	-	-	-	-	3	-	4	5	6	1	-	19
39	-	-	-	-	-	1	2	3	7	1	1	15
40	-	-	-	-	-	-	1	-	3	2	1	7
41	-	-	-	-	-	-	-	-	-	1	-	1
No. of Comm. Samples - 6												
Total	42	16	262	179	28	9	9	16	19	4	1	585

Year: 1970		Country: USSR		Species: Mackerel							
Quarter: 2nd		Gear: Otter trawl		Division: SA 6							
Structures used in aging: Otoliths			Reported by: A.S. Noskov & V.I. Isakov								
Length	Age									Total	
	2	3	4	5	6	7	8	9	10		
25	1	-	-	-	-	-	-	-	-	-	1
26	2	5	-	-	-	-	-	-	-	-	7
27	-	33	-	-	-	-	-	-	-	-	33
28	2	69	4	-	-	-	-	-	-	-	75
29	-	36	2	-	-	-	-	-	-	-	38
30	1	37	5	-	-	-	-	-	-	-	43
31	-	13	29	-	-	-	-	-	-	-	42
32	-	20	29	2	-	-	-	-	-	-	51
33	-	14	26	10	-	-	-	-	-	-	50
34	-	6	31	8	-	-	-	-	-	-	45
35	-	8	8	5	-	-	-	-	-	-	21
36	-	2	3	1	2	-	-	1	-	-	9
37	-	-	2	2	5	2	6	1	1	-	19
38	-	-	-	1	2	3	4	3	1	-	14
39	-	-	-	-	1	-	5	2	1	-	9
40	-	-	-	-	-	1	-	1	1	-	3
41	-	-	-	-	-	-	2	1	-	-	3
42	-	-	-	-	-	-	1	-	-	-	1
No. of Comm. Samples - 5											
Total	6	243	139	29	10	6	18	9	4		464

Year: 1970		Country: USSR		Species: Mackerel							
Quarter: 4th		Gear: Otter trawl		Division: SA 6							
Structures used in aging: Otoliths			Reported by: A.S. Noskov & V.I. Isakov								
Length	Age										Total
	1	2	3	4	5	6	7	8	9	10	
24	1	-	-	-	-	-	-	-	-	-	1
25	1	-	-	-	-	-	-	-	-	-	1
26	2	-	-	-	-	-	-	-	-	-	2
27	-	1	-	-	-	-	-	-	-	-	1
28	-	3	1	-	-	-	-	-	-	-	4
29	-	1	23	1	-	-	-	-	-	-	25
30	-	4	31	1	-	-	-	-	-	-	36
31	-	2	44	4	1	-	-	-	-	-	51
32	-	2	31	10	-	-	-	-	-	-	43
33	-	1	14	15	2	-	-	-	-	-	32
34	-	-	9	13	5	-	-	-	-	-	27
35	-	-	1	10	7	1	-	-	-	-	19
36	-	-	2	11	5	2	-	1	-	-	21
37	-	-	-	3	3	-	1	3	1	1	12
38	-	-	-	2	4	1	1	1	2	-	11
39	-	-	-	-	-	2	2	1	3	1	9
40	-	-	-	-	-	-	-	1	2	1	4
41	-	-	-	-	-	1	-	-	-	-	1
No. of Comm. Samples - 3											
Total	4	14	156	70	27	7	4	7	8	3	300

Year: 1969		Country: USSR		Species: Mackerel	
Quarter: 2nd		Gear: Otter trawl		Division: 5Z	
Structures used in aging: Otoliths			Reported by: A.S. Noskov & V.I. Isakov		
Length	Age			Total	
	2	3	4		
22	1	-	-	1	
23	15	-	-	15	
24	31	-	-	31	
25	137	-	-	137	
26	132	2	-	134	
27	45	1	-	46	
28	15	3	-	18	
29	11	7	-	18	
30	4	13	1	18	
31	-	16	2	18	
32	1	20	5	26	
33	-	10	7	17	
34	-	4	4	8	
35	-	2	3	5	
No. of Comm. Samples - 5					
Total	392	78	22	492	

Year: 1969		Country: USSR		Species: Mackerel		
Quarter: 3rd		Gear: Otter trawl		Division: 5Z		
Structures used in aging: Otoliths			Reported by: A.S. Noskov & V.I. Isakov			
Length	Age					Total
	2	3	4	5	6	
27	-	6	-	-	-	6
28	-	11	-	-	-	11
29	1	9	-	-	-	10
30	1	16	2	-	-	19
31	-	16	12	-	-	28
32	-	12	22	1	-	35
33	1	26	12	2	-	41
34	-	15	20	1	-	36
35	-	1	36	-	-	37
36	-	-	15	-	-	15
37	-	-	7	1	-	8
38	-	-	3	2	-	5
39	-	-	2	1	-	3
40	-	-	1	1	1	3
No. of Comm. Samples - 3						
Total	3	112	132	9	1	257

Year: 1969		Country: USSR		Species: Mackerel		
Quarter: 4th		Gear: Otter trawl		Division: 5Z		
Structures used in aging: Otoliths			Reported by: A.S. Noskov & V.I. Isakov			
Length	Age				Total	
	1	2	3	4		5
25	-	1	-	-	-	1
26	1	11	-	-	-	12
27	-	20	-	-	-	20
28	-	41	1	-	-	42
29	-	31	3	-	-	34
30	-	17	1	-	-	18
31	-	9	12	-	-	21
32	-	4	18	1	-	23
33	-	1	12	-	-	13
34	-	-	8	-	-	8
35	-	-	2	1	-	3
36	-	-	-	1	-	1
37	-	-	-	1	-	1
38	-	-	-	-	1	1
No. of Comm. Samples - 2						
Total	1	135	57	4	1	198

Year: 1968		Country: USSR		Species: Mackere1	
Quarter: 3rd		Gear: Otter trawl		Division: 5Z	
Structures used in aging: Otoliths			Reported by: A.S. Noskov & V.I. Isakov		
Length	Age				Total
	1	2	3	4	
22	1	-	-	-	1
23	32	-	-	-	32
24	30	-	-	-	30
25	22	1	-	-	23
26	9	2	-	-	11
27	-	15	-	-	15
28	-	29	4	-	33
29	-	15	5	-	20
30	-	20	22	-	42
31	-	5	31	-	36
32	-	-	38	3	41
33	-	-	8	2	10
No. of Comm. Samples - 3					
Total	94	87	108	5	294

Year: 1968		Country: USSR		Species: Mackere1					
Quarter: 4th		Gear: Otter trawl		Division: 5Z					
Structures used in aging: Otoliths			Reported by: A.S. Noskov & V.I. Isakov						
Length	Age							Total	
	<1	1	2	3	4	5	6		7
20	1	-	-	-	-	-	-	1	
21	2	-	-	-	-	-	-	2	
22	-	9	-	-	-	-	-	9	
23	-	53	-	-	-	-	-	53	
24	-	58	-	-	-	-	-	58	
25	-	43	-	-	-	-	-	43	
26	-	42	1	-	-	-	-	43	
27	-	42	2	-	-	-	-	44	
28	-	28	11	-	-	-	-	39	
29	-	29	12	-	-	-	-	41	
30	-	7	37	1	-	-	-	45	
31	-	1	41	3	-	-	-	45	
32	-	-	34	5	-	-	-	39	
33	-	-	12	13	-	-	-	25	
34	-	-	9	6	2	-	-	17	
35	-	-	-	4	1	1	-	6	
36	-	-	-	6	-	3	2	11	
37	-	-	-	2	3	2	-	9	
38	-	-	-	-	1	3	1	5	
39	-	-	-	-	2	3	1	6	
40	-	-	-	-	-	5	2	7	
41	-	-	-	-	-	-	1	1	
42	-	-	-	-	-	-	1	1	
43	-	-	-	-	-	1	-	1	
No. of Comm. Samples - 4									
Total	3	312	159	40	9	18	10	2	553