## INTERNATIONAL COMMISSION

### FOR THE

## NORTHWEST ATLANTIC FISHERIES



## STATISTICAL BULLETIN

for the year

195**2** 

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#### Foreword

The present Statistical Bulletin is entitled "Statistical Bulletin Vol. 2" because "Statistics of Landings of Groundfish from the Convention Area" included in the Second Annual Report of the Commission is now considered as Vol. 1. Contrary to Vol. 1, the present Statistical Bulletin includes not only statistics on landings but also corresponding fishing effort expended. Some of the data from Vol. 1 used in this Bulletin have been revised. Data for a few countries relative to a number of years not included in Vol. 1, are given in Part 3 together with revised data.

Jacques Côté,

Commission Statistician

Statistics on landings contained in this Bulletin as in Vol. 1, refer to the following groundfish species:

Cod	Gadus callaris (L.)
Haddock	Melanogrammus aeglefinus (L.)
Redfish	Schastes marinus (L.)
Halibut	Hippoglossus hippoglossus (L.)
Flounders	Hippoglossoides platessoides
	Fabricius) (plaice)
	Limanda ferruginea (Storer)
	- Chintorenhabio - cuivadaveus (L.)
	(mitch)
	(Witten) D. Hillithus deutedus (L.)
-	-Paratichinys achiatus (14)
	(fluke)
	-Pseudopteuronectes americanus
	(Walbaum) (lemon sole)
Other	Pollochius virens (L.) (pollock)
Groundfish-	Merluccius bilinearis (Mitchell)
	(whiting)
-	- Urophycis tenuis (Mitchell) and
	chuss (Walbaum) (white and
	red hake)
	Erosme brosme (Miller) (cusk)
	Anarhichas lupus (L.), minor
	(Olafsen) and latifrons (Steen-
	strup) (wolffish or catfish)
	Reinhardtius hippoglossoides
	(Walbaum) (Greenland hali-

The total catch of groundfish from the Convention Area has increased rapidly over the years from about 100,000 metric tons of round fresh fish in 1800 to about 1,300,000 in 1952. The increases in the total annual catch over the years are due to technical innovations as well as to a continued increased fishing intensity. Otter trawlers were added to the fishing fleet of countries whose traditional method had been line fishing. Some countries have converted their fishing fleet or part of it from dory schooners and long liners to otter trawlers (recently pair trawlers were introduced in the Convention Area). The countries sending fishing vessels to the Northwest Atlantic have increased to the ten which are now signatory of the Con-

but)

vention. Better vessels, better fishing gear, modern means of vessel propulsion are enabling vessels to fish for a greater proportion of their time spent at sea. It is now possible for most of the European fishing fleet to make more than one trip a year to the Convention Area. Fishermen have now a greater knowledge of the banks. Generally, increasing populations continue to play an important role in the impetus to more fishing. The gradual impoverishment of some of the other traditional fishing grounds plays its part in the increasing fishing intensity in the Northwest Atlantic.

The cooperation of all ten governments in Commission work and the cooperation of the fishing industry with their respective governments made possible this Bulletiu Vol. 2 as well as Vol. 1.

Statistical requirements of the Commission stand now as listed below:

- "That the Commission approve of the statistical subdivisions of subareas recommended by the Sub-Committee, amended to include in Subdivision F, all Subarea 1 south of Subdivision E and with Subdivisions "I" to "O" relettered as Subdivisions "J" to "I", respectively, all subdivisions to become effective January 1, 1954 and to be regarded as permanent insofar as possible. It is understood that the Sceretariat will circulate detailed descriptions of the subdivisions."
- 2. "That the Commission compile and publish its statistics in terms of metric tons and round fresh weights (weight of entire fish as they come from the water)."
- 3. "That the contracting Governments be requested to submit statistics in forms of fish in the state in which they are first weighed and to provide the Commission with conversion factors necessary to calculate the fresh round weights."
- 4. "That all contracting Governments be requested to make those observations on the changes in weight of fish from the fresh round state to the various states which seem, in consultation with the Commission's Statistician, to be necessary to obtain accurate statistics."
- <sup>6</sup>That in view of the usefulness of such information, the participating Governments report statistics of landings to the Commission according to com-

mercial size categories already in use by the industry and report annually the definition of such categories of fish sizes."

- 6. "Estimates of the quantities caught but not landed, for each of the principal species" are required.
- 7. "That the participating Governments be requested to compile their statistics of catches and fishing effort on a monthly basis."
- 8. "That the request for statistics on landings and fishing effort in prescribed form as made by the Commission's Statistician on October 1, 1952 be approved in principle as a basis for future requests."
- 9. "That, in order to provide the Commission with up-to-date information, each participating Government be urged to report, at least one month before the next Annual Meeting, statistics on its landings of each species from each subarca, together with other such statistical information as is then available."
- 10. "That the participating Governments be requested to report in summary form information on the number of vessels of various types and sizes fishing in the Convention Area during each year and that, to provide the basis for elassification of fishing vessels, each Government report the name, gross tonnage, horsepower, and type of fishing gear for each vessel fishing in the Convention Area in 1953."
- 11. "That in view of the importance of information on economic and other factors influencing catch, Governments be requested to provide a brief commentary on the operation of such factors when submitting their statistics annually to the Commission."
- 12. "That in order to provide indices of relative abundance, the Commission Secretariat be requested to arrange for the collection of more refined fishing effort data for representative types of vessels and method of fishing."

The map showing the new subdivisions of the Convention subareas can be found at the end of this Bulletin.

A great deal of organizational work is presently being made by all countries to meet the statistical requirements of the Commission.

In Vol. 2, use is made of data published in Vol. 1. Additions have been made concerning years for which statistics were not available at the time Vol. 1 was published and a certain number of revisious have also been made. These revisions and additions are contained in Part 3 of this Bulletin.

The present Statistical Bulletin is divided into three parts. Part I is a descriptive summary of the development of fishing by the ten countries in the Northwest Atlantic. It includes figures on landings and where possible tables relating landings to fishing effort data. The figures on quantities landed cover the years for which data are available. In a few cases, a certain number of carlier years have been omitted. Fishing effort data and corresponding yields are given for all the years for which there are statistics. Part 2 is devoted entirely to the 1952 statistics on landings, fishing effort and corresponding yield. Part 3 has been mentioned earlier. In Part 1 and 2 the data on yield per unit of fishing effort was calculated at the Commission Secretariat. It is to be noted that in this Bulletin catches and quantities landed are synonimous, as all data on quantity of fish are expressed in metric tons of round fresh fish, that is, the weight of the entire fish as it comes from the water.

Homogeneity in the presentation of the data has not been possible because of the different degree of details in the statistics submitted.

The following Institutions have contributed the statistical information which formed the basis for this Bulletin:

Canada

Department of Fisheries, Ottawa. Atlantic Biological Station, St. Andrews, N. B. Newfoundland Fisheries Research Station, St. John's, Nfid.

Denmark

Ministry of Fisheries, Copenhagen. Greenland Department, Copenhagen. Faroos Local Government.

France

Le Secretariat d'Etat à la Marine Marchande, Direction des Pêches Maritimes, Paris.

Iceland	Fisheries Department Raylia-	Spain	
Italz	vik.		Direccion General de Pesca Maritima, Madrid.
Laly	Ministero della Marina Mer- cantile, Rome. Compagnia Generale Italiana della Grande Pesca (GENE- PESCA), Livorno.	United Kingdom	Ministry of Agriculture and Fisheries, London.
Norway			
D	Statistical Department, Direc- torate of Fisheries, Bergen.	U.S.A.	North Atlantic Fishery Investi-
Portugal	Gabinete de Estudos d <b>as Pes-</b> cas, Lisbon.		gations, Fish and Wildlife Service, Woods Hole, Massa- chusetts.

## Long Term Development of Fishing in the Convention Area

#### PRELIMINARY REMARKS

It has been indicated in the introduction, that Part 1 is a summary description of the development of fishing in the Convention Area. It contains short accounts by countries relative to the various fishing fleets and landings, figures on landings covering many years by country, species and subareas. When possible a breakdown of the landings according to method of fishing is given in the figures or is mentioned in the text. Tables relating the landings with fishing effort are included for certain countries together with corresponding yields per unit of fishing effort expended depending on the amount of details in the statistics submitted to the Commission. It is to be noted that these yields per unit of the various fishing efforts were influenced by a multiplicity of factors (for example weather conditions) all of which are not accounted for in the basic data. References are made in many cases to landings for years which are not included in the figures. These data can be found in Vol. 1.

#### CANADA

This section dealing with Canada's fishery of the Convention Area, refers exclusively to landings with only a short reference to the number of vessels or hoats for 1952. As will be seen, an interesting aspect of Canadian fishery is its expansion over wider areas during recent years.

#### Canada (Excluding Newfoundland)

Cod-Statistics on landings of cod cover the period 1869-1952. These landings are not characterized by a gradual increase from year to year but show peaks and troughs, except for the depression years 1930-1939 during which catches were under 100,000 metric tons each year. Figure 1 shows the landings for the period 1910-11 to 1952. Earlier statistics published in Vol. 1, show that the eatch in 1869 was 69.806 metric tons, that it increased to 147.061 in 1886, decreased to 96.541 in 1898 and was 170.181 in 1910-11. A statistical breakdown by subareas starting in 1893, shows that most of the eatch came from Subarea 4. In 1952 however, fishing vessels started fishing in Subareas 1 and 2 landing 679 and 574 metric tons respectively.



Fig. 1 Canada (excluding Newfoundland): Cod landed (in thousands of metric tons round fresh) 1910/11-1952. Landings of 679 metric tons from Subarea 1 and 574 from Subarea 2 are not shown for 1952.

**Haddock** Figure 2 shows the catches for all the years for which statistics are available. Most of the landings are from Subarea 4. Those



Fig. 2 Canada (excluding Newfoundland): Haddock landed (in thousands of metric tons round fresh) 1910/11-1952.

from Subarea 3 although negligible are increasing.

**Redfish** -The catches of redfish, which is a species of recent interest to Canada (excluding Newfoundland), are very small but have been increasing gradually since 1946. Figure 3 shows that the catch which came largely from Subarca 4



Fig. 3 Canada (excluding Newfoundland): Redfish landed (in thousands of metric tons round fresh) 1936-1952.

before 1952, is now coming from Subareas 4 and 3 in almost equal quantities.

Halibut—Catches of halibut were rather constantly at a low level until 1942. From 1942 to 1946 catches were even lower because of less fishing effort. During that period the stocks of halibut had a respite which permitted them to recover and to yield much larger catches during the following years until in 1952 when the landings were lower although above the long term average. Up to 1939 landings came from Subarea 4. In 1939 fishing for halibut started in Subarea 3 and expanded until in 1951 landings from both subareas were very much the same.



**Flounders**—Statistics on landings are available for the years 1910–11-1952. The landings increased gradually over the years to reach 19.227 metric tons in 1952.



Fig. 5 Canada excluding Newfoundland : Flounders landed (in thousands of metric tons round fresh: 1910/11-1952. Flounders include, witch, yellowtail and winter flounder.

Until 1951 most of the eatch was from Subarea 4, but in 1951 and 1952, the landings were almost equally divided between Subarea 4 and 3.

**Other Groundfish**—Landings of other groundfish, which were almost totally from Subarea 4, show a trend to higher levels.



Fig. 6 Canada excluding Newfoundland:: Other Groundfish landed (in thousands of metric tons round fresh: 1933-1952. Other Groundfish includes: catfish, hake, cusk and skate.

The number of vessels or boats according to 1952 statistics was as follows:

#### VESSELS OR BOATS

#### OTTER TRAWLERS

10 - 25	gross (	tons	87
26-50	**	1,	54
51 - 150	• •	T.)	10
151 - 500	, ,	,,	25
over –500	,.		I
DORY	SCHO	ONERS	

to 150 gross tons 15 over 150 ,, ,, 25

#### LONG LINERS

to 50 gross tons Large but unknown number over 50 ,, ,, 2

#### Newfoundland

**Cod**—The landings of cod show an upward trend from 1804 (the earliest year for which statistics are available) to 1857, the respective eatches being 103.901 and 228.735 metric tons. During the period 1857-1908 '09, the landings varied between 154,286 and 295.636 metric tons. The period 1910-1952 is characterized by a stabilizing of the catch at a higher level (over 200,000). Statistics recorded by subareas for



Fig. 1 Newfoundland: Cod landed (in thousands of metric tons round fresh) 1910/11-1952.

the years 1929/30-1952 show that relative to the total very small landings came from Subarea 4 and that those from Subarea 2 decreased from 77,659 metric tons in 1935 to 16,701 in 1952.

**Haddock**—The eatch of haddock was very small during the period 1929/30-1945. From 1946 to 1950 the catch increased very much



Fig. 2 Newfoundland: Haddock landed (in thousands of metric tons round fresh) 1929/30-1952.

but was smaller in 1951 and 1952. Landings during these years were from Subarea 3 only.

**Redfish** -Fishing for redfish, a new venture for Newfoundland fishermen, increased very rapidly from 5 metric tons in 1942 to 14,144 metric tons in 1952. Contrary to other years



Fig. 3 Newfoundland: Redfish landed (in thousands of metric tons round fresh) 1942-1952.

the eatch in 1952 did not originate only from Subarea 3, but 1.587 metric tons were landed from Subarea 4.

Halibut The catch of halibut remained very small over the years as it varied between



Fig. 4 Newfoundland: Halibut landed in thousands of metric tons round fresh (1929/30-1952.

125 and 290 metric tons. In 1952 a very small amount was landed from Subarea 4.

**Flounders**—The landings of flounders although small increased very rapidly from 32 metric tons in 1941 to 8,591 in 1952.



Fig. 5 Newfoundland: Flounders landed (in thousands of metric tons round fresh) 1941-1952.

Small quantities of other groundfish were landed from Subarea 3 in 1952. No records are available for previous years.

The number of vessels or boats according to 1952 statistics was as follows:

	VESS	ELS of	r BO.	ATS
	OTT	ER TR	AWLE	RS
$_{\rm to}$	50	gross t	ons	1
51	-150	5 t	3 9	<b>4</b>
151	-500	\$ 7	,,	17
	DA	NISH S	EINE	RS
to	50	gross t	ons	2
	DOF	Y SCH	OONE	ERS
		10	}	

There is also a large but nuknown number of smaller craft.

#### DENMARK

#### Home Port Vessels

In 1948, otter trawlers caught 1.971 metric tons of round fresh cod. In 1951, the catch was 5.345 metric tons in Subarea 1, while in 1952 no cod was landed in Denmark by home port vessels.

#### 14 West Greenland

Statistics on West Greenland fisheries in Subarea 1 cover the period 1911-1952. The annual catch from Subarea 1 has expanded from 19 metric tons of round fresh cod in 1911, to 16,726 in 1952 with a peak of 20.718 metric tons in 1950. The figure below shows the catch of cod for the years 1930-1952 for each of the Subarea 1 subdivisions.



Increased fishing effort is not due only to an increase in the number of boats, but also to their increased efficiency. Greenlanders have now a better knowledge of the fishing grounds. Between 1935 and 1952 the number of motor boats increased from 45 to 443. The larger number of the motor boats are small boats of less than 22 feet in length and have a motor of 2-3 horsepower. The number of row boats vary irregularly from year to year although there is a slight upward trend as indicated in Table 1.

		TABL	El	
ROW	BOATS	AND	MOTOR	BOATS
	۲	935-10	352	

	1000-1004	
Vear	Row Boats	Motor Boats
1935	1,474	45
1939	1,420	73
1943	1,593	70
1945	1.687	84
1946	1,921	128
1947	1,728	140
1948	1.678	204
1949	1,888	290
1950	1,956	364
1951	1,727	395
1952	1,630	443

Statistics by subdivisions of Subarea 1 on length of the fishing season, number of effective fishing days and number of fishermen appear in Table 2 for the years 1946-52 together with corresponding catch and yield per unit of fishing effort.

#### Faroes

Faroes fisheries statistics for the Convention Area cover the period 1939 to 1952 with the exception of 1941-45 inclusive. The vessels and boats are elassified into small shore line boats, schooners, smacks, and trawlers. Up to 1951 inclusive, fishing effort data refer only to the number of boats, vessels and number of men while the 1952 statistics are more detailed.

The number of schooners and smacks increased from 5 in 1946 to 58 in 1952, that of the otter trawlers from 7 in 1948 to 13 in 1952. In 1952, the number of small line boats used was 29.The otter trawlers varied in 1952 between 50 and 500 gross tons. In 1939, 1,661 men were fishing, 141 in 1946 and 1,659 in 1952. The Faroes vessels and boats fished for cod only but caught a small quantity (24 metric tons) of halibut in 1952. Faroes fishermen frequent only Subarea 1 of the Convention Area, In 1939, the catch of cod was 25,468 metric tons, it decreased to 13,935 in 1940 and to 2.263 in 1946. The increase in the post war years brought the total to 43,085 metric tons in 1952. The figure included here shows the eatch of cod for the years 1939-52. Statistics for 1939-52 show that the eatch per man was as follows: 1939-15.33 metric tons, 1940-17.77,  $1946 = 16.05, \ 1947 = 15.02, \ 1948 - 14.41, \ 1949 -$ 16.58, 1950 - 22.14, 1951 - 22.83, 1952 - 25.98.The catch in 1952 includes 24 metric tons of halibut. For the other years, the data refer to cod only.



Farces: Cod landed (in thousands of metric tons round fresh) 1939-1952. Fishing was interrupted 1941-1945.

#### WEST GREENLAND .- TABLE 2

#### FISHING EFFORT AND YIELD PER UNIT OF FISHING EFFORT 1946-1952

#### (Landing; in Metric Tons Round Fresh)

		FISHING EF	FORT		YIELD PER				
Subarea 1	Length of the Fishing Season	No. of Effective Fishing Days	Number of Men	Cod Landed	Day of the Fishing Season	Day of the Fishing Season Per Man	Effective Fishing Day	Effective Fishing Day Per Man	Man
Subdivision 1	IA								
1946	161	87	461	1,964	12.20	.026	22.57	.049	4.26
1947	169	97	411	1,553	9.19	.022	10.01	. 039	3.78
1948	151	90	385	1,100	7.28	.019	12.22	.032	2.80
1949	145	77	367	1,350	9.01	.025	18 10	.040	0.00
1950	163	91	303	1,0±7	7 10	029	12 73	040	2 82
1951	$164^{172}$	95 95	$\frac{219}{237}$	646	3.94	.014	6.80	.024	2.25
Subdivision	IB								
1946	285	161	749	5,404	18.90	. 025	33.57	.048	7.21
1947	288	170	593	5,422	18.83	.032	31.89	.054	9.14
1948	305	168	625	5,791	18.99	.030	34.47	.055	9.27
1949	241	146	669	4,749	19.71	. 029	32.53	.049	7.10
1950	276	203	782	6,471	23.45	. 030	31.88	.041	8.27
$1951 \\ 1952$	$275 \\ 306$	$\frac{223}{206}$	$681 \\ 672$	$^{5,592}_{4,443}$	14.52	.030	25.08 21.57	.032	6.61
Subdivision	10								
1946	205	119	339	2,977	14.52	043	25.02	.074	8.78
1947	221	126	282	3,399	15.38	.054	26.98	.096	12.05
1948	209	143	309	3,849	18.42	. 060	26.92	.087	12.46
1949	202	111	312	3,680	18.22		33.15	1.006	11.79
1950	217	145	302	4,060	18.71	. 062	28.00	.093	13.44
1951	230	148	251	3,481	15.13	.000	23.02	.034	13.87
1952	245	155	251	2,905	11.80	.047	18.79	.075	11.58
Subdivision	1D	100	900	1 200	5 59	019	12.22	04	4 58
1946	239	108	200	1,020	7 61	027	12.55	045	6.00
1947	221	104	210	1,677	7 80	030	13 20	051	6 53
1945	210	207	190	1.813	7 34	.039	8.76	.046	9.54
1950	238	176	160	2.074	8.71	.054	11.78	.074	12.96
1951	248	141	227	2,347	9.46	.042	16.65	.073	10.34
1952	243	135	227	2,437	10.03	.044	18.05	. 079	10.74
Subdivision .	1E						10.01		4 .00
1946	190	108	245	1,181	6.22	. 025	10.94	045	4.82
1947	199	120	339	1,632	8.20	.024	13.00	. 040	4.81
1948	193	141	386	1,670	5.00	.022	11.89	.031	4.33
1949	196	135	254	2,140	0.44	.040	12 80	079	19 79
1950	217	100	101	2,015	0.76	072	12.99	095	15 20
1951	215 221	160	136	2,216	10.03	.074	13.85	1.002	16.29
Subdivision	IF					0.20	03.18	051	2.10
1946	216	120	450	2,780	12.87	.029	23.17	.001	0.18
1947	294	129	359	4,194	14.27	.040	04.01	.090	11.08
1948	245	139	370	4,911	20.04	.000	25 44	.034	5.51
1949	207	124	5072	0,104	16.07	028	27 27	048	7 79
1950	270	102	569	2 092	10.99	019	21 59	038	5 38
$1951 \\ 1952$	306	181	562	4,078	13.33	.024	22.53	.040	7.26
Subarea 1					*	ж	*	sji	*
1946	1.297	703	2,532	15,626	11.71	. 028	21.25	.051	5.97
1947	1.392	776	2,260	17,882	12.25	. 033	22.26	.061	7.93
1948	1,318	808	2,338	18,998	13.53	. 036	22.33	.058	8.09
1949	1,288	800	2,364	16,886	12.96	.036	22.45	.059	7.68
1950	1,386	937	2.325	20,718	14.41	044	19 78	062	9.98
1951	1,413	908	2,176	10,743	12.13	0.47	16.02	.000	9.49
1952	1,485	932	2,135	10,720	10.02	, 050	10.00	.008	0.12

\*Are averages of yields per subdivisions.

#### FRANCE

From 1874 to 1907, landings of cod varied between 32,544 and 94,115 metric tons. The years 1908 to 1910 inclusive gave eatches of over 100,000 metric tons with 173,880 for the year 1910. The figure below shows the catches for the remaining years up to 1952. In 1938, 24 dory schooners were in operation but none remained in 1952. In 1947, 17 otter trawlers fished in the Northwest Atlantic while in 1952, 37 were in operation. Of these 37 otter trawlers of a total 42,993 gross tons, 7 are between 385 and 1,000 gross tons and carry about 30 men, the remainder are between 1,000 and 1,600 gross tons and carry about 55 men. The

						FF	ANCE					
FISHING	EFFORT	AND	YIELD	PER	UNIT	OF	FISHING	EFFOI	₹T FOR	DORY	SCHOONERS	AND
				OT	FER T	'RA'	WLERS,	1947-1953	2			

		-			
YEAR	No. of Vessels	Gross Tonnage	No. of Men	Days Absent	Cod Landed
	·	DORY SC	HOONERS		
1947	3	3.044	165		5 991
1948	ĭ	857	53	_	1.763
1919	1	857	53		1.572
1950	Î	857	53		1.881
1951	1	857	53		1 469
2002	Corr	osponding Vield Per	Dinit of Fishing	Effort	(,
1047	1.007	1 07	96 9		
1914	1,997	1.97		—	
1945	1,705	2.00	33.4 90.4	—	
1949	1,972	1.00	29.0	_	
1980	1,001	2.19 1.71	00 0 07 -		
1991	1,400	1.71	21.1	_	
		OTTER T	RAWLERS		
1947	17	16,252	1,083	3,590	71,352
1948	22	24,301	1,239	4.770	104,965
1949	27	29,344	1,504	5,755	116,570
1950	30	34,810	1,716	6,465	123,165
1951	29	_		6,130	111,000
1952	37	42,993	1,933	7,790	142,647
	Corr	esponding Yield Per	Unit of Fishing	Effort	
1947	4.197	4.39	65.8	19.8	
1948	4.771	4.32	84 7	22.0	
1949	4,317	3.97	77.5	20.2	
1950	4,105	3.54	71.7	19.0	
1951	3,827			18.1	
1952	3,855	3.32	73.7	18.3	

(Landings in Metric Tons Round Fresh)



France: Cod landed (in thousands of metric tons round fresh) 1910-1952. Fishing was interrupted 1939-1943.

table above gives statistical details for the period 1947-1952. It has to be noted that statistics do not include landings at St. Pierre. Some landings originating just outside the Convention Area (cast of Cape Farvel) could not be separated. Fishing usually takes place in Subareas 1, 2 and 3 and for cod exclusively.

#### ICELAND

In the middle thirties Iceland made its first venture in Subarea 1 using long-liners. The trip was not satisfactory. Another attempt was made in 1949 after a trawler had made a rather successful trip. That year, three expeditions were organized using long-lines from motor boats and the eatch, almost exclusively cod, was salted aboard the mother vessel. The eatch was poor. There was no fishing in 1950. In 1951, 16 otter trawlers were sent to Subarea 1. Those vessels made 28 trips, 16 for cod fishing and 12 for "mixed fishing." The total catch amounted to 14.422 metric tons of round fresh fish, 14.302 of cod, the remainder being made up of flatfish, redfish and others. The fishing campaign started in late July and extended to December.

During 1952, 29 trawlers were sent to Subarea 1. These vessels, of an average tonnage of 677 gross tons, made 70 trips over a fishing campaign which extended from May to December. The fish caught, almost exclusively cod, amounted to 48.070 metric tons of round fresh fish. Landings per trip were 515 metric tons of round fresh fish in 1951 and 687 in 1952. In 1952 the yield per vessel ton was 2.45 metric tons and that per effective fishing day 18.09.

#### ITALY

Italy's fishery statistics for the Convention Area cover the years 1938-1952. In 1950, Italy began to show a greater interest in the fisheries of the Northwest Atlantic: 6 trips by 3 vessels were made during that year. Italy uses three large otter trawlers, 1 of 1,198 gross tons and 2 of 1,500 gross tons. Each of these vessels carries about 64 men. They make two trips annually; the first one usually to Subarea 3, the second to Subarea 1, 2 and 3. Their fishing season extends from January to December. The increasing



Italy: Cod landed (in thousands of metric tons round fresh) 1938-1952. Fishing was interrupted 1941-1947. interest of Italy in the Convention Area is shown by the increase in the landings from 1,529 metric tons of round fresh cod in 1928 to 12,164 in 1952. Fishing is exclusively for cod. The table below gives landings and details on fishing effort.

#### FISHING EFFORT AND YIELD PER UNIT OF FISHING EFFORT

(Landings	in	metric	tons	round	fresl	n)
-----------	----	--------	------	-------	-------	----

		FISH	ING Li	: FOR 1		
Year	No. of Ves- sels	No. of Trips	Gross ton- nage	Days Absent	No. of men	Cod landed
1948	1	I	1,198	204	61	2,646
1949	1	1	1,198	274	63	2,132
1950	3	6	4,198	845	191	13,625
1951	3	1	4.198	59.1	191	-9,620
1952	3	6	4,198	858	191	12,164
		YI	ELD F	PER		
1948	2,646	2,646	2.21	12.9	43.3	
1949	2,132	2,132	1.75	7.7	33.8	
1950	4,542	2,271	3.25	16.1	71.3	
1951	-3,207	2,405	2.29	16.2	50/3	
1952	4,055	2,027	2.90	11.1	63.6	
				-		

#### NORWAY

Statistics on Norway's fishery in the Convention Area cover the period 1924-1952. Fishing increased rapidly after the 1940-1945 interruption. Only long liners and offer trawlers are now used. Up to 1935 Norwegian fishermen were landing as much cod as halibut from Subarea i but afterwards, the catches of halibut became negligible. In 1950 and 1951, fishing took place also in Subarea 2 but with a very few long liners and resulted in a negligible catch of halibut only. In 1952, no vessels went to Subarea 2. From 1924 to 1952, the landing increased from 431 metric tons of round fresh fish, to 22,832 with a peak of 43,686 metric tons in 1951. The following figure shows the development of fishing for the years 1924-1952.

In 1952, Norway fished with 46 vessels, 41 of them being long liners, the remainder trawlers. The total tonnage of the long liners was 8,847 gross tons, that of the trawlers 3,058 for a respective average tonnage of 230 and 612 gross tons.





Horway: Cod landed (in thousands of metric tons round fresh) 1924-1952. Fishing interrupted 1927-1930 and from 1940-1945.

#### PORTUGAL

Statistical data submitted to the Commission by Portugal cover the period 1896-1952.

The quantity of fish landed from the Convention Area by Portugal increased from 4,120 metric tons of round fresh cod in 1896 to 134,205 in 1952. The landings according to methods of fishing were 4,120 metric tons by dory schooners in 1896 and 58,747 in 1952. That of otter trawlers was 2,526 metric tons in 1936 and 75,460 in 1952. Portugal fishes almost exclusively for cod and only very negligible quantities of haddock were landed at intermittent years. Dory schooners frequent almost exclusively Subarea 1 and 3 while trawlers fish in Subarea 1, 2, 3 and very little in Subarea 4.

The traditional fishing method had been hand line fishing from dories until in 1936 Portugal introduced otter trawlers in its Northwest Atlantic fishing fleet. The number of dory schooners used varied from 12 in 1896 to 39 in 1911, 11 in 1918, 68 in 1924 and 40 in 1952, Their total gross tonnage was 2,313 gross tons in 1896 and 26,770 in 1952. In 1952, the average gross tonnage of dory schooners was 700. Dory schooners carry an average of 70 men and 60 dories (4 dory schooners are of 520 gross tons and carry 35 men and 26 dories.) Manned by one fisherman each dory travels as far as five miles from the mother ship with the help of a sail or oars. The dorymen fish also with line-trawls depending on weather conditions and when hand lining is not too productive. Of the dory schooners only two remain now, which are using sails exclusively for propulsion. In 1936 there were 22 out of 40 using sails exclusively.

As mentioned earlier, Portugal started to use otter trawlers for fishing in the Convention Area in 1936. The number of Portuguese otter trawlers increased from 1 in 1936 to 7 in 1947 and to 21 in 1952. Total gross tonnage of otter trawlers was 1,199 tons in 1936 and 26,770 in 1952. These otter trawlers according to the 1952 data have an average of 1,274 gross tons and earry about 60 men. Most of the otter trawlers make two trips a year, the dory schooners only one. The fishing season of the former extends from February to December while that of the latter extends from April to October.

The development of Portuguese fishing is shown in the Figure on total landings for the years 1910 to 1952, on landings for the same years by dory schooners and on landings by otter trawlers from 1936 to 1952.

Tables 1 and 2 give detailed data on fishing by dory schooners and otter trawlers respectively for the years 1936 to 1952. Table 3 gives the corresponding yield by unit of fishing effort Table 4 gives in percentages the proportion of the total catch of cod according to size categories.<sup>1</sup>

 $<sup>^{1}</sup>$  It would have been expected that the percentage distribution between the size categories for dory schooners and otter trawlers would have differed considerably. It should be noted that it is the case only for 1950 onwards.

#### **PORTUGAL—TABLE 1** DORY SCHOONERS FISHING EFFORT AND LANDINGS, 1936-1952

#### (Landings in Metric Tons Round Fresh)

		F										
TRUN	No.	0	No.	No.	Days	Days		Co	d		Haddool	Total
YEAR	Vessels Tonnage Dories	Dories	Men Absent		Banks	Large	Large Medium		Total	Haddock	Landings	
1936	50	15.483	1,709	2.128	7,359	4,190	8,275	14,309	7,358	29,942		29,942
1937	48	15.992	1.792	2,191	6,920	2,621	1,652	21,525	12,940	36,117		36,117
1938	50	16,996	1.749	2.173	7.517	3.767	5,008	19,487	9,958	34,453	_	34,453
1939	48	18.384	1.823	2.254	7.494	3.859	6.791	23,244	14.075	44,110	175	44,285
1940	45	17.087	1.673	2.261	6.295	3.250	6.570	20,631	16,619	43.820	310	44,130
1941	45	17 113	1.682	2.104	5.818	2.742	8.674	22,927	11.208	42,809	366	43,175
1042	44	17 763	1.692	2.130	4,946	2.548	7.854	24.342	12.453	44.649		41.649
1943	44	18 723	1.648	2,105	5.216	2,485	7.309	21.546	17.142	45,997		45,997
1044	41	17.878	1.638	2,120	5.579	2.414	7.649	23.166	14,946	45,761		45,761
1045	45	19.304	1 766	2 291	5 884	2 648	7.960	25.066	15.599	48.625		48.625
1046	50	24 168	2.076	2 708	7 364	3 568	12.428	24.986	14 172	51.586		51,586
1047	48	99.877	1 993	2 606	6 885	3 516	6.392	28.274	18.638	53,304		53,304
10.18	19	94 100	2 102	2 731	0 921	3 920	6.046	29 319	19 487	54 852		54.852
1040	47	25,867	9 162	2,800	7 340	3 506	6 197	20 003	10 460	55 589	_	55 589
1040	41	95 406	9 199	2,803	7 184	5 533	10 552	33,047	18 047	61 646	49	61 695
1051	45	95 529	2,100	2,000	7 166	5 635	6 716	31 603	22 503	60 012	110	61 031
1052	40	20,002	2,000	9,020	1,100	4.908	6.877	26 312	25,558	58 747	113	58 747

#### PORTUGAL-TABLE 2

#### OTTER TRAWLERS

#### FISHING EFFORT AND LANDINGS, 1936-1952

#### (Landings in Metric Tons Round Fresh)

FISHING EFFORT									LANDIN	GS		
VELD	No.	0	No	No	Days	Days		Co	d		II. Lint	Total
YEAR	of Vessels	Tonnage	or Trips	Men	en Ba	Banks	Large	Medium	Small	Total	Haudock	Landings
1936	1	1,199	2	67	143	120	698	1,211	617	2,526		2,526
1937	1	1,199	2	53	141	118	170	2,219	1,323	3,712	_	3,712
1938	1	1,199	1	51	138	116	273	1,067	543	1,883		1,883
1939	1	1.199	2	92	122	83	676	2,288	1,406	4,370	19	4,389
1940	2	2.387	4	118	490	390	1.075	3.378	2.720	7.173	51	7.224
1941	3	2.637	4	172	500	318	1.781	4.708	2.022	8.511	71	8,582
1942	3	2,637	3	179	497	238	1.123	4.572	2.201	7.896		7.896
1043	4	4 887	4	239	558	381	2.263	4,603	4,149	11.015		11.015
1944	Å	4 887	7	248	032	520	2.709	8.445	4 778	15 932		15,932
1045	6	7 427	10	376	1.140	790	3 764	11 737	6.645	22 146		22 146
1046	6	7 497	12	371	1 331	895	6 692	12 744	6.872	26 308		26 308
1047	7	8 793	14	453	1.686	1.072	3 754	16 612	10.826	31 192		31 192
1049	19	14 877	10	890	2 448	1.551	3 699	17 884	11 887	33 450		32 450
1040	14	91 147	21	1 100	4 208	2,001	6,020	90.494	10 102	54 557		54 557
1050	10	20,147	22	1 918	4,657	2 915	4 575	94 190	27 040	66,669	671	67 994
1950	18	05 401	00	1,210	4,004	2 190	9.446	21,109	02 007	00,000	408	01,004
1951	20	20,401	20	1,000	5,000	0,100	1 410	10 100	50,807	75 119	OVE	75 450
1952	21	20 770	<b>3</b> U	1,588	0,028	+,1+1/	1,419	18,160	00,028	70,113	340	10,408

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#### PORTUGAL—TABLE 3 YIELD PER UNIT OF FISHING EFFORT, 1936-1952 (In Metric Tons Round Fresh)

.

		Γ	OORY SCI	HOONER	S				OTTE	R TRAWLE	RS	
			YIELD	PER					Y	IELD PER		
YEAR	YEAR Vessel Vessel Ton	Dory	Man	Day Absent	Day on the Banks	Vessol	Vessel Ton	Trip	Man	Day Absent	Day on the Banks	
1936 1937 1938 1938 1940 1940 1941 1942 1943 1944 1945 1944 1945 1946 1947 1948 1949 1950 1951 1951	599 752 689 923 981 959 1,015 1,045 1,116 1,081 1,032 1,111 1,137 1,183 1,371 1,356 1,356	$\begin{array}{c} 1.93\\ 2.26\\ 2.03\\ 2.41\\ 2.58\\ 2.52\\ 2.51\\ 2.46\\ 2.56\\ 2.52\\ 2.13\\ 2.33\\ 2.26\\ 2.17\\ 2.43\\ 2.39\\ 2.24\end{array}$	$\begin{array}{c} 17.52\\ 20.15\\ 19.70\\ 24.29\\ 26.38\\ 25.67\\ 26.39\\ 27.91\\ 27.94\\ 27.53\\ 24.84\\ 26.75\\ 26.10\\ 25.70\\ 29.07\\ 29.07\\ 29.20\\ 0.647\end{array}$	$\begin{array}{c} 14.07\\ 16.48\\ 15.86\\ 19.65\\ 19.52\\ 20.52\\ 20.96\\ 21.85\\ 21.59\\ 21.22\\ 19.05\\ 20.45\\ 19.99\\ 19.79\\ 22.01\\ 21.99\\ 22.01\\ 21.99\\ 12.09\\ 12.09\\ 12.01\\ 21.99\\ 21.99\\ 22.01\\ 21.99\\ 22.01\\ 21.99\\ 22.01\\ 21.99\\ 22.01\\ 21.99\\ 21$	$\begin{array}{c} 4.07\\ 5.22\\ 4.58\\ 5.91\\ 7.01\\ 7.42\\ 9.03\\ 8.82\\ 8.20\\ 8.26\\ 7.01\\ 7.74\\ 6.92\\ 7.56\\ 8.59\\ 8.52\\ \end{array}$	$\begin{array}{c} 7.15\\ 13.78\\ 9.15\\ 11.48\\ 13.58\\ 15.75\\ 17.52\\ 18.51\\ 18.96\\ 14.46\\ 15.16\\ 13.99\\ 15.86\\ 11.15\\ 10.83\\ 11.07\end{array}$	$\begin{array}{c} 2,526\\ 3,712\\ 1,883\\ 4,389\\ 3,612\\ 2,861\\ 2,632\\ 2,754\\ 3,983\\ 3,691\\ 4,385\\ 4,456\\ 2,788\\ 3,209\\ 3,741\\ 3,068\\ 2,502\end{array}$	$\begin{array}{c} 2.11\\ 3.10\\ 1.57\\ 3.66\\ 3.03\\ 3.25\\ 2.99\\ 2.25\\ 3.26\\ 2.98\\ 3.54\\ 3.58\\ 2.25\\ 2.58\\ 2.99\\ 2.42\\ 2.99\\ 2.42\\ 2.92\end{array}$	$\begin{array}{c} 1,263\\ 1,856\\ 1,883\\ 2,195\\ 1,806\\ 2,146\\ 2,632\\ 2,754\\ 2,276\\ 2,215\\ 2,192\\ 2,228\\ 1,761\\ 1,760\\ 2,040\\ 1,917\\ 2,515\end{array}$	$\begin{array}{c} 37.70\\70.00\\36.92\\47.70\\61.22\\49.89\\44.11\\46.08\\64.24\\58.89\\70.91\\68.85\\40.36\\45.84\\53.95\\44.92\\54.37\end{array}$	$\begin{array}{c} 17.66\\ 26.32\\ 13.64\\ 35.97\\ 14.74\\ 17.16\\ 15.88\\ 19.74\\ 17.09\\ 19.42\\ 19.76\\ 18.50\\ 13.66\\ 12.69\\ 14.45\\ 12.62\\ 14.32\\ \end{array}$	$\begin{array}{c} 21.05\\ 31.45\\ 16.23\\ 52.88\\ 18.52\\ 26.98\\ 33.17\\ 28.91\\ 30.63\\ 29.39\\ 29.09\\ 29.09\\ 21.57\\ 17.65\\ 20.31\\ 19.20\\ 18.20\\ \end{array}$

NOTE: Yields per unit of fishing effort are based on the total landings and should be considered as valid for cod because the landings of haddock which are included in the total landings are negligible.

#### PORTUGAL-TABLE 4

COD LANDED BY SIZE CATEGORIES, 1936-1952

#### (In Percentages)

	D	Landed by ory Schoon	ors	~	C	Landed b Otter Traw	oy lers	~	a	Dory School nd Otter Tra	ners awlers	PH .
Year	Large	Medium	Small	%	Large	Medium	Small	%	Large	Medium	Small	- %
1936	27.6	47.8	24.6	100	27.6	48.0	24.4	100	27.6	47.8	24.6	100
1937	4.6	59.6	35.8	100	4.6	59.8	35.6	100	4.6	59.6	35.8	100
1938	14.5	56.6	28.9	100	14.5	56.7	28.8	100	14.5	56.6	28.9	100
1939	15.4	52.7	31.9	100	15.5	52.3	32.2	100	15.4	52.7	31.9	100
1940	15.0	47.1	37.9	100	15.0	47.1	37.9	100	15.0	47.1	37.9	100
1941	20.3	53.5	26.2	100	20.9	55.3	23.8	100	20.4	53.8	25.8	100
1942	17.6	54.5	27.9	100	14.2	57.9	27.9	100	17.1	55.0	27.9	100
1943	15.9	46.8	37.3	100	20.5	41.8	37.7	100	16.8	45.9	37.3	100
1944	16.7	50.6	32.7	100	17.0	53.0	30.0	100	16.8	51.2	32.0	100
1945	16.4	51.5	32.1	100	17.0	53.0	30.0	100	16.6	52.0	31.4	100
1946	24.1	48.4	27.5	100	25.4	48.5	36.1	100	24.6	48.4	27.0	100
1947	12.0	53.0	35.0	100	12.0	53.3	34.7	100	12.0	53.1	34.9	100
1948	11.0	53.5	35.5	100	11.0	53.5	35.5	100	11.0	53.5	35.5	100
1949	11.0	54.0	35.0	100	11.1	53.9	35.0	100	11.0	54.0	35.0	100
1950	17.1	53.6	29.3	100	6.9	36.2	56.9	100	11.8	44.6	43.6	100
1951	11.0	52.0	37.0	100	4.0	35.5	60.5	100	7.5	43.8	48.7	100
1952	11.7	44.7	43.6	100	1.8	24.2	74.0	100	6.2	33.2	60.6	100

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Portugal: Cod landed (in thousands of metric tons round fresh) 1910-1952 for dory schooners, 1936-1952 for otter trawlers.

#### SPAIN

Statistics relative to fishing by Spain cover the period 1927 to 1952. Spain fished in the Northwest Atlantic before this century but it was in 1927 that commercial fishing in the Convention Area by Spain really began. In 1927, 2 Spanish otter trawlers were used, and in 1952, 23 frequented the Convention Area. These otter trawlers earry about 63 men and have an average gross tonnage of 1,200 tons. Their total gross tonnage in 1952 was 27,748. They usually make two trips to the banks annually and their fishing season extends from February to November. In 1949, Spain sent one pair trawler to the banks as an experiment. The good results achieved prompted the sending of a large number of them in 1950. These vessels are called pair trawlers because they use a very large trawl pulled by Sometimes a pair trawler is two vessels. used to relieve another from a return trip to Spain. When such is the case, they are said to fish in "trio." The pair trawlers vary between 150 and 267 gross tons and earry about 17 men each. Their total gross tonnage in 1952 was 14,070 tons for 73 vessels. They can make a maxium of 5 trips annually to the Northwest Atlantic fishing grounds, but most of them usually make 3 or 4 trips. Their fishing season extends from March to December. During the winter months they return to their traditional fishing grounds. Fishing by Spain in the Convention Area is diversified. Landings by ofter trawlers include almost as much haddock as cod and small quantities of bake, pollock, ling and plaice. The total eatch of ofter trawlers increased from 5,080



metric tons in 1927 to 73,711 in 1952. The total catch by Spain during the period 1027 to 1952 increased from 5,080 to 102,583 metric tons. That of the pair trawlers in 1952 being 28,873 metric tons. Spain fishes in Subarea 1, 2, 3 and 4 of the Convention Area, but pair trawlers do not fish in Subarea 4. Pair trawlers catch as much cod as otter trawlers but fish almost exclusively for cod.

#### UNITED KINCDOM

**Cod**—The figure below represents landings for the period 1928-1952. It was in 1948 that landings of cod began to be important, larger landings being coincident with the use of more otter trawlers. Most of the cod landed came from Subarea 1 although some fishing took place in Subareas 2 and 3 at intermittent years. A feature of cod fishing in Subarea 1 is that landings increased from 12,293 metric tons in

#### TABLE 1--UNITED KINGDOM

#### LANDINGS, FISHING EFFORT AND YIELD PER UNIT OF FISHING EFFORT 1928-1935

#### (Landings in Metric Tons Round Fresh)

					SUBARE	A 1							SUI	BAREA 2			
	FISHIN EFFOR	(† [			LANDIN	tas		YIELD	) PER	FISHIN EFFOR			LAN	DINGS	Y	IELD P	ER
Year	No. of Trips	Days Absent	Cod	Red- fish	IIali- but	Other Ground fish	Total	Trip	Day Absent	No. of Trips	Days Absent	Cod	Hali- but	Other Ground- fish	Total	Trip	Day Absent
							LONG	LINE	RS								
$\begin{array}{c} 1928\\ 1929\\ 1930\\ 1931\\ 1932\\ 1932\\ 1933\\ 1934\\ 1935\\ 1936\\ 1936\\ 1936\\ 1938\\ 1939-42\\ 1948\\ 1949\\ 1948\\ 1949\\ 1950\\ 1951\\ 1059\end{array}$	$\begin{array}{c} 121\\ 175\\ 165\\ 183\\ 127\\ 16\\ 20\\ 32\\ 21\\ 40\\ 22\\ 5\\ 22\\ 4\\ 1\\ 1\\ 18\\ 9\\ 4\end{array}$	$\begin{array}{c} 3,368\\ 4,997\\ 5,195\\ 5,933\\ 4,109\\ 524\\ 608\\ 989\\ 609\\ 1,324\\ 674\\ -\\ -\\ 68\\ 122\\ 33\\ -\\ 598\\ 273\\ 111\end{array}$	$\begin{array}{c} 553\\ 1,081\\ 2,861\\ 3,063\\ 1,517\\ 262\\ 226\\ 536\\ 421\\ 687\\ 555\\ -\\ 555\\ -\\ 52\\ 94\\ 16\\ -\\ 367\\ 555\\ -\\ 25\\ -$	- $        -$	$\begin{array}{c} 2,866\\ 5,791\\ 4,861\\ 5,541\\ 3,587\\ 3,028\\ 3,833\\ 2,627\\ 1,657\\ 1,312\\ 328\\ -\\ -\\ -\\ -\\ -\\ -\\ -\\ -\\ -\\ -\\ -\\ -\\ -\\$	$\begin{array}{c} 171\\ 225\\ 251\\ 262\\ 143\\ 33\\ 74\\ 133\\ 79\\ 159\\ 92\\ \hline \\ \\ 1\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	$\begin{array}{c} 3,590\\ 7,097\\ 7,973\\ 8,866\\ 2,247\\ 3,323\\ 4,133\\ 3,304\\ 2,159\\ 2,168\\ 988\\ -104\\ 184\\ -38\\ 879\\ -306\\ 879\\ -306\end{array}$	$\begin{array}{c} 48 & 7 \\ 40.5 \\ 48.3 \\ 48.4 \\ 17.6 \\ 207 \\ 206.6 \\ 103.2 \\ 102.8 \\ 50.4 \\ 44.9 \\ 52.0 \\ 46.0 \\ 38.0 \\ \hline \\ 48.8 \\ 34.0 \\ 20.0 \\ 100 \\ 38.0 \\ \hline \\ 48.8 \\ 34.0 \\ 20.0 \\ 10$	$\begin{array}{c} 1.06\\ 1.42\\ 1.53\\ 1.49\\ .54\\ 6.79\\ 3.34\\ 3.54\\ 1.63\\ 1.46\\ 1.52\\ 1.50\\ 1.15\\ 1.46\\ 1.52\\ 1.50\\ 1.15\\ .146\\ 1.2\\ 0.79\end{array}$		 544 482 204  27   34 41	$\begin{bmatrix} -& -& -& -& -& -& -& -& -& -& -& -& -& $	$ \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$		$\begin{array}{c}   \\   \\   \\   \\   \\   \\   \\   \\   \\   $	$ \begin{array}{c}                                     $	     .67  .86  .72       
1952	4	11)	25	_	70	4	80	20.0	0.72	1	29	2	21		23	23.0	.79
							OTTER '	FRAWI	ÆRS				SUB	AREA 3			
$1935 \\ 1936 \\ 1937-47$	. <u>9</u> 38	$237 \\ 863$	$^{1,122}_{5,590}$		19 10	-5 86	$^{1,146}_{5,686}$	$\frac{127.3}{149.6}$	$\substack{4.83\\6.58}$	9	231	605 —	1	271	880	97.7	3_80
1948     1949     1950     1951	$   \frac{50}{77}   \frac{77}{7}   64 $	$1.310 \\ 2,101 \\ 180 \\ 1,529$	$11,444 \\ 16,892 \\ 1,323 \\ 12,238 $	112 - 82 - 1 124		$177 \\ 365 \\ 1 \\ 227$	$\begin{array}{r}\\ 11,832\\ 17,415\\ 1,330\\ 12,863\end{array}$		$9 \ 03 \\ 8.28 \\ 7.38 \\ 8.41$	$-3 \\ -3 \\ -4 \\ -1$	$84\\84\\27$	$567 \\ 444 \\ 213 \\ 63$	-22 22 22 22	$     \begin{array}{r}       24 \\       172 \\       623 \\       157     \end{array} $	$593 \\ 618 \\ 838 \\ 222$	198 3     206.0     209.5     222.0	$7.08 \\ 7.35 \\ - 8.22$
										~			SUB	AREA 2	<b>_</b> _		
	283	6,367	56,281		292	562	57,135	201.8	8.97	6	146	1,001	—	48	1,049	174.8	7.18



United Kingdom: Cod landed (in thousands of metric tons round fresh) 1928-1952. Fishing was interrupted 1939-1945. Negligible guantities which are included in the figure for Subarea 1 were from Subarea 3 and 2 at irregularly intermittent years, but none came from Subarea 3 in 1952.

1951 to 56,306 in 1952 (113 otter trawlers and 3 long liners having been used as compared to 51 and 6). (See Table 2).

Landings of redfish have always been negligible, while catches of halibut, almost totally from Subarea 1, decreased from 4,048 metric tons in 1934 to 390 in 1952.

Table 1 gives landings, fishing effort and yield per unit of fishing effort for 1928-1952 for long liners and from 1935-1952 for otter trawlers.

#### TABLE 2

#### VESSELS FISHING IN THE CONVENTION AREA

Year	Otter trawlers	Long liners	Tonnage grouping	No. of men
1946		1	150 - 500	20
1947		1	150 - 500	20
1948	36		over 500	
		1	150-500	740
1949	50		over 500	1,000
1950	6		over 500	
		3	150 - 500	180
1951	51		over500	
		6	150 - 500	1,140
1952	113		over500	
		3	150 - 500	2,320

#### UNITED STATES

Cod—Statistics covering the period 1895-1952 show that catches of cod from Subarea 5 declined from 63,687 metric tons in 1895 to 19,268 in 1916. In 1917 as shown in Figure 1, the trend was reversed until 1930. After 1930 a slow



Fig. 1 United States: Cod landed (in thousands of metric tons round fresh) 1910-1952.

declining trend set in. Catches from Subarea 4 during the years 1893 to 1909 show an increase and the pattern from 1910-1952 can be seen in Figure 1. In the year 1895, 23,796 metric tons of cod was landed from Subarea 3, and in 1904 landings had declined to 13,508. In 1905, landings dropped to 4,006 and decreased further until they were 83 in 1952.

Haddock—Landings of haddock from Subarea 3 have always been slight while those from Subarea 4 show a gradual increase to 15,668 metric tons for the period 1893-1930. During the years 1931 to 1935 a swift upward swing in haddock catches took place and then slowly tapered off again during the ensuing years. Catches from Subarea 5 increased from 15,937 metric tons in 1893 to 126.204 in 1929. From 1930 to date catches have been around the 50,000 tons level.



ands of metric tons round fresh 1910-1952.

**Redfish**—Statistics on catches of redfish cover the period 1916-1952. Up to 1934, landings were on an average of less than 100 metric tons. The importance of the United States redfish landings from the Convention Area can be seen in Figure 3 where these landings for 1952 equal those of co-l and haddock combined.



Fig. 3 United States: Redfish landed in thousands of metric tons round fresh 1936-1952. In 1951, 13,562 metric tons and in 1952, 31,463 metric tons were landed from Subarea 3.

Halibut—Landings of halibut were between five and ten thousand metric tons during the period 1893-1900. The following years, landings decreased continuously and are now less than 300 metric tons. Since 1943 landings remained at a low level but with a slight upward trend. Figure 4 shows the landings for the years 1910-1952.



Fig. 4 United States: Halibut landed (in thousands of metric tons round fresh) 1910-1952.

Flounders--Other Groundfish--Flounders landed include yellowtail, lemon sole, blackback, grey sole, dab and fluke while other groundfish include pollock, white bake and red hake, whiting, cusk.

The rapidly increasing amount of these two groups of species landed annually is shown in Figure 5 and 6. From 1942 to 1952 however, there is a decline in the quantities of flounders landed; landings in 1952 being about 15,000 metric tons less than in 1942.

Although the trend in the landings of other groundfish is upward since 1921, total quantities landed annually from 1947 to 1952 vary by as much as 20,000 metric tous higher and lower each year.



Fig. 5 United States: Flounders landed( in thousands of metric tons round fresh) 1915-1952. Flounders include: yellowtail, lemon sols, blackback, grey sole, dab, fluke.



Fig. 6 United States: Other Groundfish landed (in thousands of metric tons round fresh) 1910-1952. Other Groundfish includes: pollock, white hake, whiting, cusk, red hake.

#### PART 2

## Statistics For 1952

#### PRELIMINARY REMARKS

Part 2 contains for the year 1952, the detailed statistics on landings by species, subarcas and countries, together with the corresponding statistics on fishing effort and yield per unit of fishing effort. In a few instances, the data are given by subarca subdivisions and by months.

Tables differ from those of Vol. 1 which included statistics on landings only. In Vol. 1, the tables were by order of countries for each species or group of species while in this Part of Vol. 2, the tables are by order of countries. This facilitates the interpretation of the relationship between landings of the various species and the corresponding fishing effort expended.

At the beginning of Part 2, there are tables on landings only, showing for the ten countries the quantities of each species or group of species landed in 1952. In 1952 Germany fished in subarca 1. There is a table in appendix showing the landings by Germany.

As mentioned earlier in this bulletin, factors influencing the yield per unit of fishing effort (for example weather conditions) are not necessarily all accounted for.

Data on landings have been carried beyond the decimal point. That was necessary because of the influence of exact smaller landings on the yield per unit of fishing effort. It is superfluons for larger landings. For the sake of homogeneity, however, and for easier comparative reading, they were kept in the tables.

The conversion factors used for conversion of the original data to round fresh weight are the following ones: **Canada** (excluding Newfoundand): Cod, haddock, pollock and other ground-

fish- head on, gutted (1.22), redfish and flounders are landed round, halibut-head off, gutted (1.35).Newfoundland: Cod-heavy salted, wet to head on gutted (2.20), to round fresh (1.22); light salted, dry to head on gutted (4.00). to round fresh (1.22); tinned to head on gutted (3.50), to round fresh (1.22), fresh, head on gutted to round fresh (1.22); haddock-fresh head on gutted to round fresh (1.14); halibut fresh, head on gutted to round fresh (1.15), fresh, head off gutted to round fresh (1.30); pollockfresh, head on gutted to round fresh (1.14); wolffish—fresh, head on gutted to round fresh (1.20). Denmark: Cod- original data were in round fresh weights; conversion factors used: West Greenland (1.20), Farces (2.50), France: Cod-wet salted to round fresh (2.50). Iceland: Cod-original data were in round fresh weights (conversion factor used—wet salted to round, 2.25). Italy: Cod -wet salted to round fresh (3.25) as compared to 2.50 for previous years, frozen cod to round fresh (1.50) frozen fillets to round fresh (4.00). Norway: Cod-salted to fresh eviscerated (1.72), from fresh eviscerated to round fresh (1.40); halibut--fresh, eviscerated, head off to round fresh (1.20). **Portugal**: Cod and haddoek--wet salted to round fresh (2.50). Spain: Cod, haddock, flounders and other groundfish wet salted landed by pair trawlers to round fresh (2.50) as compared to 2.00 used for previous years, wet salted landed by otter trawlers to round fresh (2.50). United Kingdom: original data were in round fresh weights. United States: Cod-eviscerated to round fresh (1.20), haddock—eviscerated to round fresh (1.14), halibut – eviscerated to round fresh (1.15), redfish and flounders-original data were in round fresh weights, other groundfish--to round fresh; pollock (1.14), white hake, red hake (1.34), whiting (1.66), cusk (1.14).

			Subarea		Subarea	Total	<b>m</b> -+-1	
Country	1	2	3	4	5	not indicated	notal metric tons	million pounds
Canada	679.0	17,275.0	250,948.4	194,858.7	-		463,761.1	1,022.4
Denmark	64.835.0	-	_	-	_	-	64,835.0	142.9
France		_				142.647.0*	142.647.0	314.5
lceland	48,070.0					_	48.070.0	106.0
Italy			5.273.0		-	6.891.0**	12.164.0	26.8
Norway	22,832.0						22.832.0	50.3
Portugal	55,360.4	34.775.4	43.916.5	155.2		200.0***	134,407.5	296.3
Spain	5,010.9	548.0	69,788.2	6,598.1		20,698.3***	102.643.5	226.2
UnitedKingdom	57,403.1	1,178.3	_				58.581.4	129.2
U. S. A.			31,655.7	67,360.5	180,548.5	-	279,564.7	616.3
GRAND TOTAL	254,190.4	53,776.7	401,581.8	268,972.5	180,548.5	170,436.3	1,329,506.2	2,930.9
				along and a second s				

#### TABLE 1. TOTAL GROUNDFISH LANDINGS BY COUNTRIES FROM THE CONVENTION AREA IN 1952

(In Metric Tons Round Fresh)

NOTE: \*Includes some landings from East Greenland. \*\*Are from Subareas 1, 2 and 3. \*\*\*Are from Subareas 3 and 4. In all tables, the sign (--) when it refers to landings means no fishing except in cases where landings were not attributed to any subareas.

Country	1	2	Subarea 3		<u></u>	Subarea not indicated	Total metric tons	Total million pounds
Canada Excluding Nfld. Newfoundiand Total	$\frac{679.0}{679.0}$	$574.0 \\ 16,701.0 \\ 17,275 0$	24,721.0 184,631.8 209,352.8	$\begin{array}{c} 102,748.0 \\ 17,618.8 \\ 120,366.8 \end{array}$			$ \begin{array}{c}     128,722.0 \\     218,051.6 \\     347,673.6 \end{array} $	283.8 482.7 766.5
Denmark Faroes West Greenland Total	48,085.0 16,726.0 64,811.0	 				-	48,085.0 16,726.0 64.811.0	$106.0 \\ -36.9 \\ 142.9$
France Otter Trawlers		_	_			142,647.0*	142.647.0	314.5
Iceland Otter Trawlers	48,070.0	_	_	• -		_	48.070.0	106.0
Italy Otter Trawlers	_	_	5,273.0			6.891.0**	12.164.0	26.8
Norway Long Liners Ottor Trawlers Total	$19,158.0 \\ 3,494.0 \\ 22,652.0$	<b>-</b>					$19,158.0 \\ 3,494.0 \\ 22,652.0$	42.2 7.7 49.9
Portugal Dory Schooners Otter Trawlers Total	43,303.9 12,056.5 55,360.4	34,775.4 34,775.4	15,443.5 28,183.8 43,627.3	 99.4 99.4	 		58,747.4 75,115.1 133,862.5	129.5 165.6 295.1
Spain Pair Trawlors Otter Trawlers Total	4.879.1 4.879_1	$\frac{-}{548.0}\\548.0$	25,044.6 24,254.3 49,298.9	5,169, 5,169, 2	_	8,424.3*** 8,424.3***	25,044.6 43,274.9 68,319.5	55.2 95.3 150.5
United Kingdonn Long Liners Otter Trawlers Total	25.4 56,281.3 56,306.4	$27.3 \\ 1,000.9 \\ 1,028.2$	-	- - -		- _	52.4 57,282.2 57,334.6	0.1 126.3 126.4
United States	_	_	76.2	5,797.2	14,409.2	<u> </u>	20,282.6	41.7
GRAND TOTAL	252,757.9	53,626.6	307,628.2	131,432.6	14,409.2	157,962.3	917,816.8	2,023.3

## TABLE 2. DIGEST OF COD STATISTICS FOR THE CONVENTION AREA 1952 (In Metric Tons Round Fresh)

NOTE: \* Includes some landings from East Greenland. \*\*Are from Subareas 1, 2 and 3. \*\*\*Are from Subareas 3 and 4.

		Subar	ea				
Country	1	3	4	5	Sub-area not indicated	Total metric tons	Total million pounds
Canada							
Excluding Nfld.		2.948.0	27.409.0			30,357,0	66 9
Newfoundland	_	4,695.7				4 605 7	10.4
Total	-	7,643.7	27,409.0	-	-	35,052.7	77.3
Portugal							
Dory Schooners					900.0*	200.0	0.4
Otter Trawlers		289 2	55 8		200.0	245 0	0.4
Total	_	289.2	55.8		200.0*	545.0	1.2
Spain							
Pair Trawlers	_	3 464 9				2 464 0	77
Otter Trawlers	131 8	16 480 7	958 7		11 062 6*	90 524 9	85 1
Total	131.8	19,945.6	985.7	_	11,963.6*	32,999.7	72.8
United Kingdom							
Long Liners					100 M		
Otter Trawlers	3 1					2 1	0.0
Total	3.1		-		-	3.1	0.0
United States	-	4.4	25,003.6	48,605.3	-	73,613.3	162.3
GRAND TOTAL	134.9	27,882.9	53,427.1	48,605.3	12,163.6	142,213.6	313.6

#### TABLE 3. DIGEST OF HADDOCK STATISTICS FOR THE CONVENTION AREA 1952 (In Metric Tons Round Fresh)

NOTE: \*- Are from Subareas 3 and 4.

#### TABLE 4. DIGEST OF REDFISH STATISTICS FOR THE CONVENTION AREA 1952 (In Metric Tons Round Fresh)

Country			Subarea			Total	Total	
Country	1	2	3	4	5	tons	pounds	
Canada			0.140.0					
Isxeluaing Mila.			2,140.0	1,457.0	-	3,597.0	7.9	
Newloundland			12,556.4	1,587.5		14,143.9	31.2	
Total			14,696.4	3,044.5		17,740.9	39.1	
United Kingdom								
Long Liners	0.5	0.5	-			1.0	0.0	
Otter Trawlers	158.6			_	_	158 6	0.4	
Total	159.1	0.5		-		159.6	0.4	
United States		_	31,463.2	31,344.0	21,377.2	84,184.4	185.6	
GRAND TOTAL	159.1	0.5	46,159.6	34,388.5	21,377.2	102,084.9	225.1	

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		,					
			Subarea			T-4-1	Tetel
Country	1	2	3	4	5	metric tons	million pounds
Canada							
Excluding Nfld.			681.0	1,755.0	-	2,436.0	5.4
Newfoundland			130.4	27.4		157.8	0.3
Total	_	-	811.4	1,782.4		2,593.8	5.7
Denmark							
Faroes	24.0					24.0	0.0
West Greenland		-	_			_	_
Total	24.0	-		-	-	24.0	0.0
Norway							
Long Livers	176.0					176.0	0.4
Otter Trawlers	4.0		-		_	4.0	0.0
Total	180.0		-	—	_	180.0	0.4
United Kingdom							
Long Liners	75.8	97.2		-		173.0	0.4
Otter Trawlers	292.6	0.5				293.1	0.6
Total	368.4	97.7			-	466.1	1.0
United States	_	-	*	52.6	123.3	175.9	0.4
GRAND TOTAL	572.4	97.7	811.4	1,835.0	123.3	3,439.8	7.5

TABLE 5. DIGEST OF HALIBUT STATISTICS FOR THE CONVENTION AREA 1952 (In Metric Tons Round Fresh)

NOTE: Negligible.

### TABLE 6. DIGEST OF FLOUNDERS STATISTICS FOR THE CONVENTION AREA 1952

(In Metric Tons Round Fresh)

~		Subarea			
Country	3	4	5	- Total metric tons	Total million pounds
Cauada*					
Excluding Nfld.	8,154.0	11,073.0		19.227.0	42.4
Newfoundland	8,591.4			8,591.4	18.9
Total	16,745.4	11,073.0	-	27,818.4	61.3
United States**	87.5	1,577.5	24,031.6	25,696.6	56.6
GRAND TOTAL	16,832.9	12,650.5	24,031.6	53,515.0	117.9

NOTE: \*Includes plaice, witch, yellowtail, winter flounder. \*\*Includes yellowtail, lemon sole, gray sole, blackback, dab, fluke.

<i>a</i>			Subarea					
Country	I	2	3	4	5	Subarea not indicated	Total metric tons	Total million pounds
Canada*								
Excluding Nfld.			1,316.0	31.183.0		_	32.499.0	71.6
Newfoundland			382.7	-			382.7	0.9
Total	-	-	1,698.7	31,183.0			32,881.7	72.5
Spain								
Pair Trawlers			343.1				343 1	0.7
Otter Trawlers			200.6	470.2		310 4	981 2	2.2
Total	_	_	543.7	470.2		310.4	1,324.3	2.9
United Kingdom								
Long Liners	4.0	4.0		_			8.0	0.0
Otter Trawlers	562.1	47.9					610 0	1.4
Total	566.1	51.9					618.0	1.4
United States**	_		24.4	3,585.6	72,001.9		75,611.9	166.7
GRAND TOTAL	566.1	51.9	2,266.8	35,238.8	72,001.9	310.4	110,435.9	243.5

#### TABLE 7. DIGEST OF OTHER GROUNDFISH STATISTICS FOR THE CONVENTION AREA 1952 (In Metric Tons Round Fresh)

NOTE: \*Includes eatfish, hake, eusk, skate, pollock (Pollachius virens). \*\*Includes white hake, red hake, whiting, cusk, pollock.

#### CANADA — 1952 FISHING EFFORT, LANDINGS, AND YIELD PER UNIT OF FISHING EFFORT Landings in Metric Tons Round Fresh)

CANADA (Excluding Newfoundland) TABLE 1

#### SUBAREA 1

#### OTTER TRAWLERS

FISHING EFFORT

YIELD PER

Gross Tonnage	No. of Vessels	No. of Trips	Days Absent	Days on the Banks	Days Fished	Hours Trawling	Cod Landed	Vessel	Trip	Day Absent	Day on the Banks	Day Fished	Hours Trawling
151-500 Over 500	$\frac{2}{1}$	$1.5 \\ 0.9$	$\begin{array}{c} 58.9\\ 47.5\end{array}$	44 39	43 38	337 297	298 381	$\begin{array}{c} 149\\ 381 \end{array}$	$\begin{array}{c} 199\\ 423 \end{array}$	5.1 8.0	6.8 9.8	$\begin{array}{c} 6.9 \\ 10.0 \end{array}$	$0.9 \\ 1.3$
Total	3	2.4	106.4	83	81	634	679	226	283	6.4	8.2	8.4	1.1

#### TABLE 2

#### SUBAREA 2

#### OTTER TRAWLERS

		FISH	ING EFI	FORT				YIELD PE				R			
Gross Tonnage	No. of Vessels	No. of Trips	Days Absent	Days on the Banks	Days Fished	Hours Trawling	Cod Landed	Vessel	Trip	Day Absent	Day on the Banks	Day Fished	Hour Trawling		
151-500 Over 500	$\frac{2}{1}$	$0.5 \\ 1.1$	$\begin{array}{c} 24.1\\ 41.5 \end{array}$	$\begin{array}{c} 17\\32\end{array}$	$\frac{14}{29}$	$\begin{array}{c} 104 \\ 122 \end{array}$	$294 \\ 280$	$\frac{147}{280}$	$588 \\ 254$	$\substack{12.2\\6.7}$	$\begin{array}{c} 17.3\\ 8.8\end{array}$	$\begin{array}{c} 21.0\\ 9.7\end{array}$	$2.8 \\ 2.3$		
Total	3	1.6	65.6	49	43	226	574	191	359	8.8	11.7	• 13.3	2.5		

TABLE 3	
SUBAREA 3	
OTTER TRAWLERS	5

		FISI	HING EFF	ORT					I	ANDING	3		
Gross Tonnage	No. of Vessels	No. of Trips	Days Absent	Days on the Banks	Days Fished	Hours Trawling	Cod	Haddock	Redfish	Halibut	Flounders	Other Ground- fish	Total
51-150 151-500 Over 500	$\begin{smallmatrix}&3\\23\\1\end{smallmatrix}$	$\begin{array}{r} 4.2\\252.3\\8.9\end{array}$	$92.0 \\ 2,284.5 \\ 89.2$	$56 \\ 1,322 \\ 54$	56 1,268 54	$\begin{array}{r} 635 \\ 13,635 \\ 466 \end{array}$	$     \begin{array}{r}       164 \\       5,226 \\       314     \end{array}   $	76 2,617 178	$56 \\ 2,046 \\ 38$	$\begin{array}{c}1\\75\\3\end{array}$	220 7,551 381	$15 \\ 1,135 \\ 53$	532 18,650 967
Total	27	265.4	2,465.7	2,432	2,378	14,736	5,704	2,871	2,140	79	8,152	1,203	20,149
			TOTAL Y	IELD PER									
	Vessel	Trip	Day Absent	Day on the Banks	Day Fishing	Hour Trawling							
51-150 151-500 Over 500	$177.3 \\ 810.9 \\ 967.0$	$126.7 \\ 73.9 \\ 108.7$	$5.8 \\ 8.2 \\ 10.8$	$9.5 \\ 14.1 \\ 17.9$	$9.5 \\ 14.7 \\ 17.9$	$\begin{array}{c} 0.8\\ 1.4\\ 2.1\end{array}$							
Total	746.3	75.9	8.2	8.3	8.5	1.4							
						DORY SCH	IOONER	3					
		FIST	UNG EFI	FORT					L	ANDINGS	5		
Gross Tonnage	No. of Vessels	No. of Trips	Days Absent	Days on the Banks	Days Fished	Hundred* Lines Físhed	Cod	Haddock	Redfish	Halibut	Flounders	Other Ground- fish	Total
To 150 Over 150	9 27	$\begin{array}{c} 18.5\\ 86.9\end{array}$	$856.0 \\ 2,544.4$	$\substack{444\\1,697}$	383 1,392	$2,205 \\ 6,693$	$3,505 \\ 15,512$	77	_	$\begin{array}{c} 71 \\ 531 \end{array}$	2	4 109	$3,580 \\ 16,231$
Total	36	105.4	3,400.4	2,141	1,775	8,898	19,017	77	_	602	2	113	19,811
		TOTA	L YIELD	PER									
	Vessel	Trip	Day Absent	Day on the Banks	Day Fishing	Hundred* Linos Fished							
To 150 Over 150	397.8 601.1	$\begin{array}{c}193.5\\186.8\end{array}$	$\begin{array}{c} 4.2\\ 6.4 \end{array}$	$\begin{array}{c} 8.1\\ 9.6 \end{array}$	$\begin{array}{c} 9.3\\11.7\end{array}$	$\begin{array}{c} 1.6\\ 2.4 \end{array}$							
Total	550.3	188.0	5.8	9.3	11.2	2.2							

NOTE: \*Multiply by 50 to have the number of hooks.

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TAE	LE	4

						SUBAR	EA 4						
						OTTER T	RAWLEF	RS					
		FISH	IING EFF	ORT			LANDINGS						
Gross Tonnage	No. of Vessels	No. of Trips	Days Absent	Days on the Banks	Days Fished	Hours Trawling	Cod	Haddock	Redfish	Halibut	Flounders	Other Ground- fish	Total
To 25 26 - 50 51 - 150 151 - 500 Over 500	$87 \\ 54 \\ 10 \\ 25 \\ 1$	$1,168.0 \\ 171.6 \\ 422.9 \\ 9.1$	3,970.0 1,167.5 3,000.1 56.3	3,675 787 2,488 55	3,615 747 2,409 50	37,800 10,094 33,018 543	$136 \\ 9,899 \\ 1,610 \\ 10,970 \\ 225$	$1,250 \\ 1,186 \\ 2,124 \\ 9,460 \\ 176$	46 153 591 506	$\begin{array}{c} - \\ 15 \\ 157 \\ 4 \end{array}$	$1,963 \\ 3,864 \\ 1,077 \\ 2,599 \\ 53$	449 442 1,122 3,204 40	3,844 15,544 6,539 26,896 498
Total	177	-	-		_	_	22,840	14,196	1,296	176	9,556	5,257	53,321
		TOTA	L YIELD	PER									
	Vessel	Trip	Day Absent	Day on the Bank	Day Fishing	Hour Trawling							
$\begin{array}{ccc} {\rm To} & 25\\ 26 - & 50\\ 51 - & 150\\ 151 - & 500\\ {\rm Over} & 500 \end{array}$	$\begin{array}{r} 44.2\\287.9\\653.9\\1,075.8\\498.0\end{array}$	$     13.3 \\     38.1 \\     63.6 \\     54.7 $	3.9 5.6 9.0 8.8		$\begin{array}{r}\\ 4.3\\ 8.8\\ 11.2\\ 10.0 \end{array}$	0.4 0.6 0.8 0.9							
Total	301.2		-	_	_	_							
						DORY S	CHOONE	ERS					
		FISH	HING EFF	ORT					I	ANDINGS	3		
Gross Tonnage	No. of Vessels	No. of Trips	Days Absent	Days on the Banks	Days Fished	Hundred* Lines Fished	Cod	Haddock	Redfish	Halibut	Flounders	Other Ground- fish	Total
Tu 150 Over 150	$15 \\ 15$	$\begin{array}{r}147.2\\170.9\end{array}$	$959.0 \\ 1,281.6$	536 956	456 678	7,518 3,597	$1,705 \\ 8,173$	$791 \\ 564$	Ξ	$\begin{array}{c} 418\\ 61\end{array}$	9 92	$356 \\ 222$	$3,279 \\ 9,112$
Total	30	318.1	2,240.6	1,492	1,134	11,115	9,878	1,355	_	479	101	578	12,391
		TOTA	AL YIELD	PER									
	Vessel	Trip	Day Absent	Day on the Banks	Day Fishing	Hundred* Lines Fished							

 $\begin{array}{c} 7.2\\ 13.4 \end{array}$ 

10.9

 $^{0.4}_{2.5}$ 

1.1

To 150 Over 150

Total

 $\begin{array}{c} 218.6\\607.5\end{array}$ 

413.0

 $\begin{array}{c} 22.3 \\ 53.3 \end{array}$ 

39.0

 $3.4 \\ 7.1$ 

5.5

 $\begin{array}{c}
 6.1 \\
 9.5
 \end{array}$ 

8.3

(Continued)

#### TABLE 4 (Continued)

#### SUBAREA 4

							LONG I	INERS						
			FISI	HING EFF	ORT			LANDINGS						
Gros Tom	ss 1age	No. of Vessels	No. of Trips	Days Absent	Days on the Banks	Days Fished	Hundred* Lines Fished	Cod	Haddock	Redfish	Halibut	Flounders	Other Ground- fish	Tota
Over	50	3	18	143				43	23		25		4	95
	÷		TOTA	L YIELD	PER									
		Vessel	Trip	Day Absent	Day on the Banks	Day Fishing	Hundred* Lines Fished							
Over	50	31.7	5.3	0.7	-	-	-							
						SM	IALL SHOL	RE BOAT	s					
							LANDI	NGS						
					Cod	Haddock	Redfish	Halibut	Flounders	Other Ground- fish	Total			
					69,987	11,835	161	1,075	1,416	25,244	109,818			

		TABLE S	5	
LANDINGS	BY	SPECIES	BY	SUBAREAS

(In	Metric	Tons	Round	Fresh
1		an an man	A C O SEAL OF	

Subarea	Cod	Haddock	Redfish	Halibut	Flounders	Other Groundfish	Total Groundfish
1	679	_		_		_	679
2	574						574
3	24,721	2.948	2,140	681	8.154	1.316	39.960
4	102,748	27,409	1,457	1,755	11,073	31,183	175,625
Total	128,722	30,357	3,597	2,436	19,227	32,499	216,838

		(.		to arra a costi,			
Month	Cod	Haddock	Redfish	Halibut	Flounders	Other Groundfish	Total Groundfish
January	4,271	2,085	255	26	816	432	7,885
February	4,100	2.549	165	106	517	452	7.889
March	6,411	3,792	25	190	461	1.054	11.933
April	11,360	2,740	1	376	437	1.180	16.094
May	9,425	2,465	107	296	1.319	2,445	16.057
June	18,569	3,258	240	269	2.664	6.096	31.096
July	28,497	2,137	804	364	2,381	6,745	40.928
August	14,376	1.641	448	368	2,527	5,600	24,960
September	16,357	1.971	220	222	2.455	3.727	24.952
October	6.341	2.332	620	152	2.275	1.895	13.613
November	4,489	2.511	422	40	1.764	2.057	11.284
December	4,526	2,876	290	27	1,611	818	10,147
TOTAL	128,722	30,357	3,597	2,436	19,227	32,499	216,838

## TABLE 6 LANDINGS BY SPECIES BY MONTHS

(In Metric Tons Round Fresh)

#### NEWFOUNDLAND

#### FISHING EFFORT, LANDINGS, AND YIELD PER UNIT OF FISHING EFFORT

#### TABLE 1 SUBAREA 3

(Landings in Metric	Tons	Round	Fresh)	l
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	FIST	HING EFF	ORT		LANDINGS						YIELD PER		
Gross Tonnage	No. of Vessels	No. of Trips	Days Absent	$\operatorname{Cod}$	Haddock	Redfish	Halibut	Flounders	Other Ground- fish	Total	Vessel	Trip	Day Absent
					OT	TER TR.	AWLERS						
$\begin{array}{rrr} {\rm To} & 50 \\ 51 - 150 \\ 151 - 500 \end{array}$	1 4 17	$\begin{array}{c} 4\\168\\452\end{array}$	$19 \\ 904 \\ 3.317$	$2.1 \\ 174.5 \\ 4,755.7$	$\frac{38.7}{4,465.7}$	$7.8 \\ 3,216.3 \\ 10,894.1$	1.6 1.0	$3.6 \\ 96.6 \\ 8,011.4$	$\begin{array}{c} 31.1\\ 53.0 \end{array}$	$13.5 \\ 3,558.8 \\ 28,180.9$	$13.5 \\ 889.7 \\ 1,657.7$	${3.4}\atop{21.2}\\62.3$	$0.7 \\ 3.9 \\ 8.5$
Total	22	624	4,240	4,932.3	4,504.4	14,118.2	2.6	8,111.6	84.1	31,753.2	1,443.3	50.9	7.5
					D	ORY SCH	OONERS						
_	10	53	544	2,102.2	6.8	—	26.8	9.4	12.4	2,157.6	215.8	40.7	4.0
					DA	ANISH SE	INERS						
20-46	2	27	163	1.9	_	25.9		317.9	_	345.7	172.9	12.8	2.1
					S	MALL SH	ORE BOA	TS					
			-	177,637.6	184.5	-	71.0	152.3	286.4	178,331.8		-	-

#### TABLE 2

#### SUBAREA 3 DORY SCHOONERS\* BY MONTHS

(Landings in Metric Tons Round Fresh)

	FISHING	EFFORT		LANDINGS							YIELD PER		
Month*	No. of Vessels	No. of Trips	Days Absent	Cod	Haddock	Halibut	Flounders	Other Ground- fish	Total	Vessel	Trip	Day Absent	
January	2	3	11.0	30.12	.72	_		.16	31.00	15.5	10.3	2.8	
February	2	11	31.5	118.78	1.53	. 05	_	1.00	121.36	60.7	11.0	3.9	
March	3	14	30.0	89.21	2.23	8.21	.08	1.17	100.90	33 6	7 2	3 4	
April	1	5	3.5	21.53	.68	.09	4.59	8.47	35 36	35 4	7 1	10 1	
May	2	6	28.0	54.17	1.62	.06	4 78	1 64	62 27	31 1	10 4	2 2	
June	2	2	20.0	. 99		15 92			16 91	8.5	8 5	0.8	
July	1	2	20.0	.66	01	1 94			2 61	9.6	1 3	0.0	
August	1	1	10.0	-	-	.52			,52	0.5	0.5	0.1	
Total	5	44	154.0	315.46	6.79	26.79	9.45	12.44	370.93	74.2	8.4	2.4	

NOTE: \*Offshore Landings. \*\*No Fishing after August.

# TABLE 3SUBAREA 3DANISH SEINERS (20 to 46 Gross Tons)BY MONTHS(Landings in Metric Tons Round Fresh)

	FIS	HING EFF	ORT	LANDINGS				YIELD PER			
Month	No. of Vessels	No. of Trips	Days Absent	Cod	Redfish	Flounders	Total	Vessel	Trip	Day Absent	
June	1	4	22	.65	17.38	67.32	85.35	85.4	21.3	3.9	
July					-	-				0.0	
August	1	2	13	.07	3.33	34.12	37 52	37 5	18.8	2 0	
September	2	5	25	.01	3.27	49.16	52 44	26 2	10.5	2 1	
October	2	7	44	.01	1.91	81 37	83 29	41 6	11 9	1 9	
November	2	6	35	.22		55.49	55 71	27 9	0.3	1 6	
December	2	3	24	.94		30.53	31.47	15.7	10.5	1.3	
Total	2	27	163	1.90	25.89	317.99	345.78	172.9	12.8	2.1	

NOTE: \*No Fishing before June.

#### TABLE 4

## SUBAREAS 3 and 4

OTTER TRAWLERS (51 to 150 Gross Tons) BY MONTHS

(Landings	in	Metric	Tons	Round	$\mathbf{Fresh}$
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	FISHING EFFORT			LANDINGS							YIELD PER		
Month	No. of Vessels	No. of Trips	Days Absent	Cod	Haddock	Redfish	Halibut	Flounders	Other Ground- fish	Total	Vessel	Trip	Day Absent
January	4	17	70	4.22	1.12	257.97		1.16	1.43	265.90	66.5	15.6	3.8
February	3	11	55	13.33	.38	303.57	.05	17.27	.71	335.31	111.8	30.5	6.1
March	4	18	107	66.25	1.26	337.08	.06	3.31	1.87	409.83	102.5	22.8	3.8
April	4	18	99	11.17	. 99	240.34	.11	3.86	6.11	262.58	65.6	14.6	2.7
May	4	16	79	34.40	10.43	187.89	.04	19.45	11.42	263.63	65.9	16.5	3.3
June	4	16	93	15.40	. 46	519.79	. 05	7.41	7.53	550.64	137.7	34.4	5.9
July	4	11	68	5.63	. 19	362.39	.09	5.24	. 60	374.14	93.5	34.0	5.5
August	4	19	79	4.44	. 37	247.95	.87	6.40	. 49	260.52	65.1	13.7	3.3
September	4	11	60	11.91	22.81	215.77	.26	18.31	. 31	269.37	67.3	24.5	4.5
October	3	10	67	1.41	.15	224.20	.09	2.07	. 19	228.11	76.0	22.8	3.4
November	3	10	71	3.78	. 35	209.09		8.53	.05	221.80	73.9	22.2	3.1
December	4	11	56	2.60	. 26	210.25	_	3.69	.23	217.03	54.3	19.7	3.9
Total	4	168	904	174.54	38.77	3,316.29	1.62	96.70	30.94	3,658.86	914.7	21.8	4.0

#### TABLE 5

#### SUBAREAS 3 and 4

OTTER TRAWLERS (151 to 500 Gross Tous) BY MONTHS

(Landings in Metric Tons Round Fresh)

	FISHING EFFORT				LANDINGS							YIELD PER		
Month	No. of Vessels	No. of Trips	Days Absent	Cod	Haddnek	Redfish	Halibut	Flounders	Other Ground- fish	Total	Vessel	Trip	Day Absent	
January	12	31	241.5	159.46	225.17	1,677.68	4.49	127.39	8.23	2,202.42	183.5	71.0	9.1	
February	13	40	321.5	394.22	2,382.46	273.61	4.71	147.40	4.39	3,206.79	246.7	80.2	10.0	
March	14	38	295.0	319.34	1,093.30	273.97	15.54	569.52	17.04	2,288.71	163.5	60.2	7.8	
April	13	45	321.0	1.379.49	504.26	213.60	4.61	185.92	4.21	2,292.09	176.3	50.9	7.1	
May	14	47	322.5	881.36	45.43	307.22	. 41	1,663.31	7.54	2,905.27	207.5	61.8	9.0	
June	13	39	252.0	686.15	8.03	1.084.35	.12	1,072.89	9.17	2,860.71	220.1	73.4	11.4	
July	10	26	173.0	41.12	25.76	1,138.88	. 23	305.50	.71	1,512.20	151.2	58.2	8.7	
August	12	35	226.5	91.84	59.60	977.12	.02	917.26	.26	2,046.10	170.5	58.5	9.0	
September	13	38	287.5	303.21	32.81	693.79	. 05	1,286.07	. 09	2,316.02	178.2	60.9	8.1	
October	15	43	331.0	114.23	16.51	2,041.44	. 39	496.86	.13	2,669.56	178.0	62.1	8.1	
November	14	38	290.5	150.25	69.83	1,313.35	.06	435.29	. 30	1,969.08	140.6	51.8	6.8	
December	15	32	255.0	235.01	2.52	889.11	. 44	804.03	.94	1,932.05	128.8	60.4	7.6	
Total	17	452	3,317.0	4,755.68	4,465.68	10,884.12	31.07	8,011.44	53.01	28,201.00	1,658.9	62.4	8.5	

	(Landings in Metric Tons Round Fresh)												
Subarea	Cod	Haddock	Redfish	Halibut	Flounders	Other Groundfish	Total						
2 3 4	16,701.1 184,631.8 17,618.8	4,695.8	12,556.4 1,587.6	130.5 27.5	8,591.5	382.8	16,701.1 210,988.8 19,233.9						
Total	218,951.7	4,695.8	14,144.0	158.0	8,591.5	382.8	246,923.8						

#### TABLE 6 LANDINGS BY SPECIES AND SUBAREAS

NOTE: This table shows minor differences from some of the data of the preceeding tables. Certain quantities have been added: 42.2 metric tons of cod to Subarea 3, 30.1 of halibut to Subarea 3, 1,587.6 of redfish have been transferred from Subarea 3 to 4.

#### DENMARK — 1952 TABLE 1 WEST GREENLAND FISHING EFFORT, LANDINGS, AND YIELD PER UNIT OF FISHING EFFORT

### SUBAREA 1

(Landings in Metric Tons Round Fres.	h)
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	FIS	SHING EFFOR	r		YIELD PER						
Subdivisiou	Length of the Fishing Season	No. of Effective Fishing Days	No. of Men	Cod Landed	Day of the Fishing Season	Day of the Fishing Season Per Man	Effective Fishiug Day	Effective Fishing Day Per Man	Man		
1A	164	95	287	646	3.94	.014	6.80	.024	2.25		
18	306	206	672	4,443	14.52	.022	21.57	.032	6.61		
10	240	135	201	2,300	10.03	.047	18.70	.070	11.08		
iE	221	160	136	2,216	10.03	.074	13.85	.102	16.29		
1F	306	181	562	4,078	13.33	.024	22.53	.040	7.26		
Subarea 1	1,485	932	2,135	16,726	10.62*	. 038*	16.93*	. 059 *	9_12*		

NOTE: In 1952, 1,630 row boats and 443 motor boats were used. \*Averages.

#### TABLE 2

#### FAROES

#### FISHING EFFORT, LANDINGS, AND YIELD PER UNIT OF FISHING EFFORT

SUBAREA L	SUBAREA	1	
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#### (Landings in Metric Tons Round Fresh)

		FIS	HING EFF	ORT		LANI	DINGS		YIELD	) PER	
of Fishing	No. of Trips	No. of Vessels	No. of Men	Days Absent	Days on the Banks	Cod	Halibut	Trip	Man	Day Absent	Day on the Banks
Small Shore Line Boats	29	29		3.531	2.185	1.870	_	64.5		0.53	0.86
Hand Lining- Dory Schooners	21	21		3,042	2,066	7,582	_	361.0		2.49	3 67
Long Lining— Dory Schooners Long Liners	5 32	$\frac{5}{32}$		$781 \\ 4.800$	$544 \\ 3.408$	3,455 14.523	$\overline{24}$	$691.0 \\ 454.6$		$\frac{4.42}{3.03}$	$6.35 \\ 4.27$
Otter Trawlers— To 51 Gross Tons	5	13		666	472	2,026	_	405.2		3.04	4.29
51-150 151-500				$503 \\ 450$	$\begin{array}{c} 342\\ 312 \end{array}$	$3,758 \\ 9,871$	-	751.6 987.1		$\begin{array}{r} 7.47 \\ 21.94 \end{array}$	$\begin{array}{c} 10.99\\31.64\end{array}$
TOTAL	107	-	1,659	13,773	9,329	43,085	24	402.7	23.9	3.13	4.62

#### FRANCE - 1952

#### CONVENTION AREA FISHING EFFORT, LANDINGS, AND YIELD PER UNIT OF FISHING EFFORT OTTER TRAWLERS

#### (Landings in Metric Tons Round Fresh)

	FISHING EFFORT		Cad		YIELD PER	
No. of Vessels	Gross Tonnage	No. of Men	Landed	Vessel	Vessel Ton	Man
37	42,993	1,933	142,647	3,855.3	3.32	73.80

#### ICELAND — 1952 FISHING EFFORT, LANDINGS, AND YIELD PER UNIT OF FISHING EFFORT SUBAREA 1 OTTER TRAWLERS

		FIS	SHING E	FFORT		0.1			YIELD	PER	
Year	No. of Vessels	Gross Tonnage	No. of Trips	Days Absent	Effective Fishing Days	Landed	Vessel	Vessel Ton	Trip	Day Absent	Effective Fishing Day
May Iune		_	11	$356 \\ 445$	235 346	7,116	_		647	19.99 13.41	30.28
July	_	-	16	758	582	10,764			673	14.20	18.49
September			13	693 492	550 404	9,713 5,468		_	$     \frac{747}{684} $	$14.02 \\ 11.11$	$17.66 \\ 13.53$
October *		_	$\frac{4}{9}$	$\begin{array}{c} 241 \\ 441 \end{array}$	$\begin{array}{c} 197 \\ 342 \end{array}$	$2,883 \\ 6,157$	-	-	$721 \\ 684$	$11.96 \\ 13.96$	$14.63 \\ 18.00$
Total	29	19,622	70	3,426	2,656	48,070	1,657	2.45	687	14.03	18.09

(Landings in Metric Tons Round Fresh)

NOTE: \*Could not be allocated to any particular month.

#### ITALY -- 1952 CONVENTION AREA FISHING EFFORT, LANDINGS, AND YIELD PER UNIT OF FISHING EFFORT OTTER TRAWLERS (Landings in Metric Tons Round Fresh)

		FISHING	G EFFOR	T			LAN	DINGS				YIEL	D PER		
No. of	No. of	Gross	Days	Days on	No. of		С	OÐ		Vessel	Trip	Vessel	Day	Day on	Man
Vossels	Trips	Tonnage	Absent	the Banks	Men	Large	Medium	Small	Total			Ton	Absent	the Banks	
3	6	4,198	654	858	191	1,742	3,057	7,365	12,164	4,055	2,027	2.9	18.6	14.2	63.7

NOTE: 5,273.0 metric tons are from Subarea 3; the remainder from Subareas 1, 2 and 3.

#### NORWAY - 1952

#### TABLE 1

SUBAREA 1

FISHING E. FORT, LANDINGS, AND YIELD PER UNIT OF FISHING EFFORT

(Landings in Metric Tons Round Fresh)

			FISH	ING EI	FFORT				LAND	INGS			YI	ELD PI	ER		
Tonnage	No. of Vessels	Gross Tonnage	No. of Trips	No. of Men	Days Absent	Days on the Banks	Days Fished	Cod	Halibut	Total	Vessel	Vessel Tonnage	Trip	Man	Day Absent	Day on the Banks	Day Fished
								LONG	LINERS								
101-150	8	1.062	27	151	091	715	612	3 540	10	3 568	446 0	3 4	132 1	23 6	3.0	5.0	5.8
151-200	G G	1 542	24	176	1 101	045	704	4 192	24	4 917	468 6	2 7	124 0	24 0	3 5	4.5	5 3
201_250	11	9,832	28	294	1,260	1.008	776	4,100	44	4 788	435 3	1 7	171 0	21 4	3.8	4.8	6.2
251-300	11	2 722	30	230	1 312	1,006	863	5 488	66	5.554	504.9	2.0	185.1	24.1	4 2	5.5	6.4
301-350	2	689	5	44	266	227	181	1 180	12	1 192	596 0	1.7	238 4	27 1	4 5	5 3	6 6
Not Allocated	_		-	_				1,105	1	15	_	_		_			
Total	41	8,847	124	825	4,950	3,961	3,226	19,158	176	19,334	471.6	2.2	155.9	23.4	3.9	4.9	6.0
								OTTER	TRAWL	ERS							
551-650	5	3,058	6	156	426	324	289	3,494	4	3,498	699.6	1.1	583.0	22.4	8.2	10.8	12.1
1							LON	G LINE	CRS (By M	onths)	3						
May	34	7.464	34	684	327	19	16	109	E	110	3.2	0.0	3.2	0.2	0.3	5.8	6.9
June	38	8.079	23	764	1.042	927	793	5.365	27	5.392	141.9	0.7	234.4	7.1	5.2	5.8	6.8
July	41	8,847	18	825	1.057	958	810	4,422	43	4.465	108.9	0.5	248.1	5.4	4.2	4.7	5.5
August	37	7,953	28	745	1.024	945	753	4.113	30	4.143	112.0	0.5	148.0	5.6	4.0	4.4	5.5
September	36	7,807	21	725	990	937	717	4.302	61	4,363	121.2	0.6	207.8	6.0	4.4	4.7	6.1
October	33	7,013	_	662	510	175	137	833	13	846	25.6	0.1		1.3	1.7	4.8	6.2
November						_	-										
Not Allocated	-				_			14	1	15	-	-	-		_		
Total	41	8,847	124	825	4,950	3,961	3,226	19,158	176	19,334	471.6	2.2	155.9	23.4	3.9	4.9	6.0
							OTTE	R TRAW	LERS (By	y Months	.)						
May	1	562	1	30	- 3		-		-	_	-		-	$\rightarrow$			
June	3	1,824	2	94	40	27	20	371		371	123.7	0.2	185.5	3.9	9.3	13.7	18.6
July	3	1,824	1	94	88	72	59	790		790	263.3	0.4	790.0	8.4	9.0	11.0	13.4
August	3	1,824	_	94	93	79	68	843	-	843	281.0	0.5	-	9.0	9.1	10.7	12.4
September	5	3,058	2	156	135	100	96	1,054	1	1,055	211.0	0.3	527.5	6.8	7.8	10.6	11.0
October	4	2,427	_	124	63	46	46	436	3	439	109.8	0.2		3.5	7.0	9.5	9.5
November	2	1,234		62	4									-			_
Total	5	3,058	6	156	426	324	289	3,494	4	3,498	699.6	1.1	583.0	22.4	8.2	10.8	12.1
						LONG J	LINERS	and O'	TTER TRA	WLERS	B (By Mo	onths)					
May	35	8,026	35	714	330	19	16	109	1	110	3.1	0.0	3.1	0.2	0.3	5.8	6.9
June	41	9,903	25	858	1,082	954	813	5,736	27	5,763	140.6	0.6	230.5	6.7	5.3	6.0	7.1
July	44	10,671	19	919	1,145	1,030	869	5,212	43	5,255	119.4	0.5	276.6	5.7	4.6	5.1	6.0
August	40	9,777	28	839	1,117	1,024	821	4,956	30	4,986	124.7	0.5	178.1	5.9	4.5	4.9	6.1
September	41	10,865	23	881	1,125	1,037	813	5,356	62	5,418	132.1	0.5	235.6	6.1	4.8	5.2	6.7
October	37	9,440	-	786	573	221	183	1,269	16	1,285	34.7	0.1	_	1.6	2.2	5.8	7.0
November	2	1,234	-	62	4	_		100	-		-					-	
Not Allocated	-			_		_		14	1	15	-	-	-	_		-	
Total	46	11,905	130	981	5,376	4,285	3,515	22,652	180	22,832	496.3	1.9	175.6	23.3	4.2	5.3	6.5

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						(B)	y Subdivi	isions)							
()h		F	ISHING	EFFOR	Т			LANDING	S			YIELI	) PER		
div- isions	No. of Vessels	Gross Tonnage	No. of Trips	No. of Men	Days on the Banks	Days Fished	Cod	Halibut	Total	Vessel	Vessel Ton	Trip	Man	Day on the Banks	Day Fished
	~	1.000		100	Million M		LONG	LINERS	0.100		() http://	07.0			
A	24	4,976	35	473	775	636	3,391	35	3,426	142.8	0.7	97.9	7.2	4.4	0.4
15	30	0,427	49	092	1,114	944	5,001	30	0,030	101.3	0.8	147.8	0.0	4.0	0.0
C	32	6,986	35	636	888	736	5,127	27	0,104	101.1	0.7	147.3	8.1	5.8	1.0
D	7	1,329	1	143	101	87	690		690	98.6	0.5	98.0	4.8	0.8	6.9
E F	2	397	2	37	58	51	287	-	288	144.0	0.7	144.0	7.8	b.0 —	5.6
Not Allocated	27	5,759	28	531	1,025	772	4,662	78	4,740	175.6	0.8	169.3	8.9	4.6	6.1
Total	41	8,847	124	825	3,961	3,226	19,158	176	19,334	471.6	2.2	155.9	23.4	4.9	6.0
							OTTER	TRAWLEI	28						
A					-		_	_			_		-		
B	4	2.496	4	126	91	81	891	1	892	223.0	0.4	223.0	7.1	9.8	11.0
C	4	2.496	4	126	32	30	310	1	311	77.8	0.1	77.8	2.5	9.7	10.4
D	5	3.058	6	156	197	174	2.247	ĩ	2.248	449.6	0.7	374.7	14.4	11.4	12.9
E		0,000			2.01		-,		-,						
F	1	631	1	32	4	4	46	1	47	47.0	0.1	47.0	1.5	11.8	11.8
Total	5	3,058	6	156	324	289	3,494	4	3,498	699.6	1.1	583.0	22.4	10.8	12.1
					L	ONG LD	NERS an	d OTTER	TRAWLE	RS					
A	24	4.976	35	473	775	636	3.391	35	3.426	142.8	0.7	97.9	7.2	4.4	5.4
B	34	8 923	53	718	1 205	1.025	5.892	36	5,928	174 4	0 7	111 8	8.3	4.9	5.8
č	36	9 482	30	762	920	766	5 437	28	5 465	151 8	0.6	140 1	7.2	5.9	7.1
Ď	12	4 387	13	299	298	261	2 937		2 938	244 8	0.7	226 0	9.8	9.9	11 3
E	2	307	2	37	58	51	287	1	288	144.0	0.7	144 0	7.8	5 0	5 6
F	1	631	ĩ	30	4	4	48	1	47	47 0	0.1	47 0	1.5	11.8	11.8
Not	Т	001	T	02	т	-1	40	Ŧ	11	17.0	U. 1	11.0	1.0	14.0	AL.U
Allocated	27	5,759	28	531	1,025	772	4,662	78	4,740	175.6	0.8	169.3	8.9	4.6	6.1
Total	46	11,905	130	981	4,285	3,515	22,652	180	22,832	496.3	1.9	175.6	23.3	5.3	6.5

# TABLE 2SUBAREA 1FISHING EFFORT, LANDINGS, AND YIELD PER UNIT OF FISHING EFFORT

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#### PORTUGAL — 1952 TABLE 1 OTTER TRAWLERS FISHING EFFORT

										BYSU	<b>JBAREAS</b>	3			
36	No.	Gross	No.	No.	Days	Ľ	AYS ON	THE BAN	KS			HOU	RS TRAWI	ING	
Month	Vessels	Tonnage	Trips	Men	Absent -	1	2	3	4	Total	1	2	3	4	Total
February	12	15.054	_	783			_	73	_	73		-	984	-	984
March	19	24.210		1.260				495	3	498			4,469	23	4,492
April	18	22.940		1.198				524	8	532	_	_	6,932	125	7,057
May	18	22.940		1,198				531		531			3,782		3,782
June	18	22,940		1.198		8		473		481	89		6,522	_	6,611
July	15	19.397	1	994		261		59		320	4,339		900	_	5,239
August	21	26.770	-	1.388		354	106	18		478	5.072	1.684	203	_	6,959
September	. 20	25.520	-	1.322		43	431	-		474	469	4,959			5,428
October	14	18,106	_	887	_		375			375		2,637	_		2,637
November	12	15,567	_	761		_	321		_	321	_	3.659		-	3.659
December	11	14,303		733		-	43	21	_	64	-	375	255		630
Total	21	26,770	30	1,388	5,268	666	1,276	2,194	11	4,147	9,969	13,314	24,047	148	47,478

TABLE 2OTTER TRAWLERSLANDINGS(In Metric Tons Round Fresh)

										BY SUB!	REAS										
										CC	D			-				HADD	OCK		Const
.Mont	h		I				2				3				4		Total	3	4	Total	Total
	Lge.	Med.	Sml.	Total	Lge.	Med.	Sml.	Total	Lge.	Med.	Sml.	Total	Lge.	Med.	Sml.	Tot.	Cod			Haddock	
Feb.		-			-	1			26.0	0 270.0	138.0	434.0	) —		_	_	434.	0 —	-		434.0
Mar.			_	_	_	-	_		195.7	71,456.7	1,500.9	3,153.3	3 —	8.0	7.0	15.0	3,168.	3134.4		134.4	3,302.7
Apr.						_			382.3	72,616.9	3,038.0	6,037.6	\$ 8.2	32.5	43.7	84.4	6,122.	0.144.3	55.8	200.1	6,322.1
May	-				-		-		303.3	32.629.7	4,634.3	7,567.3	3			-	7,567.	3 10.5	-	10.5	7,577.8
June	7.6	34.9	144.3	186.8	- 1				219.6	32,470.0	6.632.3	9,321.9	)			-	9,508.	7 —	_		9,508.
July	35.7	1.326.3	2,582.7	3.944.7	1.6			1.6	51.1	7 251.4	744.2	1,047.3	3 -	-	_	-	4,993.	6 —			4,993.0
Aug.	118.4	2.506.8	4.695.6	7.320.8	\$ 24.5	251.5	3.259.6	3,535.6	4.1	71.9	406.6	482.6	; —		_	_	11,339.	0 -	-		11,339.0
Sept.	2.1	74.5	527.6	604.2	20.8	1.774.4	10.033.4	11.828.6	-	_							12,432.	8 -			12,432.8
Oct.	_				9.1	1.141.0	7.886.2	9.036.3	_				-	_		_	9.036.	3 —	-		9,036.3
Nov.	_	-			2.1	1.012.0	8.661.4	9.675.5	_				-	-			9.675.	5 —	_		9,675.4
Dec.		_	-		_	118.4	579.4	697.8	6.3	119.9	13.6	139.8	š —		_	(and	837.	6 —			837.0

# TABLE 3OTTER TRAWLERSYIELD PER UNIT OF FISHING EFFORT(In Metric Tons Round Fresh)

## TOTAL YIELD PER

	TT 1	17 1	<i>m</i> :	25	D	Dur	TT	D.	AY ON THE	E BANKS			HOUR 7	RAWLI	NG
Month	Vessel	v esset Ton	Tub	Man	Absent	on the	Trawl-		SUBAR	EA			SUB	AREA	
						Banks	mg -	1	2	3*	4*	1	2	3*	4*
February	36.17	0.03		0.55	-	5.95	0.44	_		5.94		_		0.44	
March	173.83	0.14		2.62		6.63	0.74		-	6.64	5.00	_	_	0.73	0.65
April	351.23	0.28		5.28		11.88	0.90	_	_	11.79	17.52			0.89	1.12
May	420.99	0.33		6.33	-	14.27	2.00		_	14.54				2.00	
June	528.26	0.41		7.94		19.77	1.44	23.35	_	19.70	_	2.09	_	1.43	
July	332.91	0.26	-	5.02		15.61	0.95	15.11		17.75	-	0.91		1.1:	_
August	539.95	0.42		8.17		23.72	1.63	20.68	33.35	26.81		1.44	2.09	2.37	
September	621.64	0.49		9.40		26.23	2.29	14.05	27.44			1.28	2.38		
October	645.45	0.50		10.19		24.10	3.43		24.09				3.42		
November	806.29	0.62	_	12.71	_	30.14	2.64	-	30.14				2.64		
December	76.15	0.06	_	1.14	-	13.09	1.35		16.22	6.6	-	-	1.86	0.54	-
Total	3,593.34	2.82	2,515.34	54.37	14.32	18.20	1.59	18.10	27.25	12.97	14.10	1.21	2.61	1.18	1.04

NOTE: \*Yields per unit of fishing effort for Subareas 3 and 4 are based on landings including haddock.

# TABLE 4DORY SCHOONERSFISHING EFFORT AND LANDINGS(Landings in Metric Tons Round Fresh)

			F	FISHIN	IG EFI	FORT							L	ANDING	łS				
	No	Canada	NL	Ma	Days	on the	Banks		Dory	Hours				CC	D				-
Month	of Vocala	Tonnag	e of	of Mon	SU	BARE	EA		SUE	AREA		SUBA	REA 1			SUB	AREA 3		- Total Land-
	* Gaadra		Dones	o mieli	1	3	Total	1	3	Total	Large	Med.	Small	Total	Large	Med.	Small	Total	- ings
Apr.	37	23,411	1,834	2,414		178	178		1,210	1,210	_	_	-		379.9	472.0	) 471.6	1.323	5 1.323.5
May	38 40	24,588 26,258	1,905 2 219	2,507 2,920	$\frac{1}{722}$	852	853	7 605	6,688	6,492	107 9	2.8	5 019	2.8	31,538.0	) 1,610.	71,415.6	4,564	3 4,567.1
July	40	26,258	2,219	2,920	1,069	151	1,220	11,504	2,701	14,205	674.9	5,218.6	6,404.	012,297.1	5 111.3 5 198.1	482.8 728.6	$5 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	1,816.3	312,529.6 314,113.8
Aug. Sept.	40 34	26,258 23,814	1,825	2,920 2,410	1,048 209	$\frac{46}{330}$	$1,094 \\ 539$	$13,514 \\ 1.563$	$406 \\ 3.927$	13,920 5.490	1,228.7 497.5	8,151.5 911.2	7,992.	017,372.2 01.893	2 - 50.5 7 1.095 5	5 187.0 5 2 125 4	) 118.6	356.	17,728.3
Oct.	22	16,930	1,221	1,595	14	144	158	192	1,552	1,744	191.4	-		191.4	4 503.4	363.9	9 404.7	1,272.0	) 1,463.4
Total	40	26,258	2,219	2,920	3,063	1,845	4,908	34,472	17,810	52,282	3,000.3	20,341.6	5 19,962	0 43,303.	93,876.7	7 5,970.	45,596.4	15.443	5 58,747.4

NOTE: 200 metric tons of Haddock not included here were also landed.

TABLE 5
DORY SCHOONERS
YIELD PER UNIT OF FISHING EFFORT
(In Metric Tons Round Fresh)

	Vossol	Voccol	Dory	Man	Day	Dory	Day on th	e Banks	Dory Hour	
Month	A GADOL	Ton	Doty		on the	Hour	SUBAR	EA	SUBA	REA
					Danks		1	3	1	3
April May June July August September October	$\begin{array}{r} 35.77 \\ 120.19 \\ 313.24 \\ 352.85 \\ 443.21 \\ 206.52 \\ 66.52 \end{array}$	$\begin{array}{c} 0.06 \\ 0.19 \\ 0.48 \\ 0.54 \\ 0.68 \\ 0.29 \\ 0.09 \end{array}$	$\begin{array}{c} 0.72 \\ 2.40 \\ 5.65 \\ 6.36 \\ 7.99 \\ 3.85 \\ 1.20 \end{array}$	$\begin{array}{c} 0.55\\ 2.40\\ 4.29\\ 4.83\\ 6.07\\ 2.91\\ 0.92 \end{array}$	7.44 5.35 14.47 11.57 16.21 13.03 9.26	$1.09 \\ 0.70 \\ 1.36 \\ 0.99 \\ 1.27 \\ 1.28 \\ 0.84$	$\begin{array}{r}$	$7.44 \\ 5.36 \\ 6.83 \\ 12.03 \\ 7.74 \\ 15.54 \\ 8.83$	$\begin{array}{c} - \\ 0.70 \\ 1.50 \\ 1.07 \\ 1.29 \\ 1.21 \\ 1.00 \end{array}$	$     \begin{array}{r}       1.09 \\       0.70 \\       0.64 \\       0.67 \\       0.88 \\       1.31 \\       0.82 \\     \end{array} $
Total	1,468.69	2.24	26.47	20.12	11.97	1.10	14.14	8.37	1.26	0.87

#### SPAIN — 1952 TABLE 1 OTTER TRAWLERS\*—LANDINGS

(In Metric	Tons	Round	Fresh)	
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		11.1	35	A	B.5	Turna	Taalar	Amount	September	Oatohor	November	December	Total
	January	February	March	April	May	June	July	August	September	October	ivoveniber i	December	1000
Sabarea 1						COD			105 0				100.0
Large	_					_	100 5	10.1	165.8		-		1 996 9
Medium	_		_	~_			106.7	557.9	671.7		_		2 261 0
Small	-	-					266.9	2,995.0	100.0				0,001.9
Total				-	-	-	373.6	3,568.0	937.5	-		-	4,879.1
Subarea 2													5.0
Large	_		_					5.0				_	5.0
Medium			0.7					10.0	21.0	2.5	_		34.2
Small	_	_	10.6		_	_		102.5	395.7	-		1	508.8
Total		-	11.3		_			117.5	416.7	2.5		-	548.0
Subarea 3											10.0		0 F 40 F
Large		6.8	374.9	649.8	729.6	576.3	230.6	140.0	606.4	188.1	40.0		3,542.5
Medium		125.7	113.2	153.4	288.8	363.8	208.0	85.0	365.5	167.8	51.8	2.5	1,925.5
Small	_	634.8	574.4	501.4	2,189.4	4,439.5	3,114.1	762.5	3,355.7	2,069.0	1,113.0	32.5	18,786.3
Total	_	767.3	1,062.5	1,304.6	3,207.8	5,379.6	3,552.7	987.5	4,327.6	2,424.9	1,204.8	35.0	24,254.3
Subarea 4	-												
Large			177.5	346.5	32.5	_	-		2.5	_			559.0
Medium		_	65.0	286.5	37.5				5.0	1000		-	394.0
Small			525.0	3,073.7	495.0		_		_	62.5	60.0		4,216.2
Total			767.5	3,706.7	565.0		_	-	7.5	62.5	60.0	-	5,169.2
All Subareas						1							1.005
Large		6.8	552.4	996.3	762.1	576.3	230.6	160.1	774.7	188.1	40.0		4,287.4
Medium		125.7	178.9	439.9	326.3	363.8	314.7	652.9	1,063.2	170.3	51.8	2.5	3,690.0
Small		634.8	1.310.0	3,575.1	2,684.4	4,439.5	3,381.0	3,860_0	3,851.4	2,131.5	1,173.0	32.5	26,873.2
Total	_	767.3	1,841.3	5,011.3	3,772.8	5,379.6	3,926.3	4,673.0	5,689.3	2,489.9	1,264.8	35.0	34,850.6
						HADI	DOCK						
Subaroa 1									131.8				131.8
Subarea 1		1 404 2	2.033.0	225 1	2.042 4	3.137 7	1.409.9	577.5	1.472.5	2.140.9	1.932.5	105.0	16,480.7
Subarea o		1,404.2	142.5	676.2	77.5	12.5	1,100.0			50.0			958.7
Subarea 4			142.0	010.2	11.0	2.0.0							
Total	_	1,404.2	2,175.5	901.3	2,119.9	3,150.2	1,409.9	577.5	1,604.3	2,190.9	1,932.5	105.0	17,571.2
						OTHER (	GROUNDE	ISH					
Subarea 3		82.5	45.0	5.0	65.6	$2_{-5}$				_			200.6
Subarea 4	_		27.7	367.5	75.0								470.2
Total	_	82.5	72.7	372.5	140.6	2.5		-		_	-		670.8
Grand Total		2,254.0	4,089.5	6,285.1	6,033.3	8,532.3	5,336.2	5,250.5	5 7,293.6	4,680.8	3,197.3	140.0	53,092.6
		1											

NOTE: \*This table does not include 20,698.3 metric tons landed by part of the Otter Trawlers fleet because no breakdown by species, subareas and size categories was given in the basic data. The total landings for all the Otter Trawlers is in reality 73,790.9 instead of 53,092.6. The total gross tounage of Otter Trawlers was 27,748, the number of men 1,400 and the number of vessels 23 which made 45 trips. The yield per unit of fishing effort is 2.65 metric tons per vessel ton, 3,208.3 per vessel, 1,639.7 per trip, 52.7 per man.

## TABLE 2PAIR TRAWLERS\*LANDINGS

(In Metric Tons Round Fresh)

Month	1	SUBDIVI	SION 31			SUBDIV	VISION 3	N		SUBDIV	ISION 30	)		SUE	DIVIS	ION 3P	
Month	Large	Medium	Small	Total	Large	Medium	Small	Total	Large	Medium	Small	Total	Large	Medium	Small	Total	Grand Total
								CC	D								
Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.	101.4 9.4 1.6 0.6 0.1	83.9 27.4 2.0 **	3.4 126.0 82.6 8.5 **	$ \begin{array}{c}     3.4 \\     311.3 \\     119.4 \\     12.1 \\     0.6 \\     0.1 \\     \\   \end{array} $	$\begin{array}{c} 459.8\\717.8\\559.6\\424.5\\315.5\\342.9\\596.6\\131.8\\17.6\\2.9\end{array}$	$198.8 \\ 497.2 \\ 446.7 \\ 483.3 \\ 297.6 \\ 228.1 \\ 429.0 \\ 124.7 \\ 8.1 \\ 1.0 \\$	$\begin{array}{c} 68.2\\ 323.6\\ 759.6\\ 1,107.4\\ 727.0\\ 467.4\\ 468.3\\ 126.8\\ 23.4\\ 6.1 \end{array}$	$\begin{array}{c} 726.8\\ 1,538.6\\ 1,765.9\\ 2,015.2\\ 1,340.1\\ 1,038.4\\ 1,493.9\\ 383.3\\ 49.1\\ 10.0 \end{array}$	$\begin{array}{c} 605.5\\ 1,012.3\\ 598.3\\ 446.2\\ 350.4\\ 406.5\\ 605.5\\ 212.6\\ 98.7\\ 5.5\end{array}$	$\begin{array}{c} 258.0\\ 588.3\\ 486.7\\ 499.0\\ 339.2\\ 279.1\\ 434.2\\ 179.8\\ 53.0\\ 17.7\end{array}$	$\begin{array}{c} 100.7\\ 398.8\\ 835.3\\ 1,132.6\\ 807.5\\ 560.0\\ 484.5\\ 249.7\\ 236.2\\ 25.6\end{array}$	$\begin{array}{r} 964.2\\ 1,999.4\\ 1,920.3\\ 2,077.8\\ 1,497.1\\ 1,245.6\\ 1,524.2\\ 642.1\\ 387.9\\ 48.8\end{array}$	$\begin{array}{c} 147.9\\ 294.5\\ 38.7\\ 21.8\\ 35.0\\ 63.7\\ 8.9\\ 81.7\\ 81.1\\ 2.6\end{array}$	59.591.140.015.741.551.0 $5.255.344.91.4$	$\begin{array}{r} 33.1 \\ 75.3 \\ 75.8 \\ 25.2 \\ 80.5 \\ 92.6 \\ 16.1 \\ 124.5 \\ 212.8 \\ 11.6 \end{array}$	$\begin{array}{c} 240.5\\ 460.9\\ 154.4\\ 62.7\\ 157.0\\ 207.3\\ 30.2\\ 261.5\\ 338.8\\ 15.6\end{array}$	$1,931.5 \\ 3,998.9 \\ 3,844.1 \\ 4,467.0 \\ 3,113.6 \\ 2,503.4 \\ 3,048.9 \\ 1,287.0 \\ 775.8 \\ 74.4$
Total	113.1	113.3	220.5	446.9	3,569.0	2,714.5	4,077.8	10,361.3	4,341.5	3,135.0	4,830.9	12,307.4	775.9	405.6	747.5	1,929.0	25,044.6
								HAD	DOCK				-				
Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.		0.2 6.1 1.6 **	4.5 16.7 0.3	4.7 22.8 1.9	$\begin{array}{c} 4.7\\11.3\\6.5\\28.4\\2.0\\10.0\\37.9\\0.8\\1.3\\-\end{array}$	$\begin{array}{c} 22.3\\ 61.4\\ 50.9\\ 124.4\\ 81.6\\ 50.0\\ 50.9\\ 73.6\\ 8.2\\ 5.1 \end{array}$	$\begin{array}{c} 22.2\\ 17.3\\ 55.7\\ 97.1\\ 151.6\\ 78.8\\ 190.2\\ 66.7\\ 20.2\\\end{array}$	$\begin{array}{c} 49.2\\ 90.0\\ 113.1\\ 249.9\\ 235.2\\ 138.8\\ 279.0\\ 141.1\\ 29.7\\ 5.1\end{array}$	$13.2 \\ 12.2 \\ 6.6 \\ 28.4 \\ 2.0 \\ 38.0 \\ 0.9 \\ 2.3 \\ 5.1 $	$\begin{array}{c} 29.1\\ 74.5\\ 57.7\\ 126.3\\ 88.8\\ 62.0\\ 51.5\\ 104.5\\ 132.5\\ 9.2 \end{array}$	$\begin{array}{c} 23.4\\ 25.6\\ 66.4\\ 100.4\\ 169.1\\ 89.2\\ 190.2\\ 112.4\\ 86.3\\ 6.1 \end{array}$	$\begin{array}{c} 65.7\\ 112.3\\ 130.7\\ 255.1\\ 259.9\\ 189.2\\ 242.6\\ 219.2\\ 223.9\\ 15.3\end{array}$	$ \begin{array}{c} 8.6\\ 0.9\\ 0.1\\\\ 0.1\\ 0.1\\ 1.1\\ 5.1\\\\ \end{array} $	$\begin{array}{c} 6.5\\ 13.0\\ 6.8\\ 1.9\\ 7.2\\ 12.1\\ 0.6\\ 28.8\\ 124.2\\ 4.1 \end{array}$	1.28.310.73.317.510.4 $-45.766.16.1$	$\begin{array}{c} 16.3\\ 22.2\\ 17.6\\ 5.2\\ 24.7\\ 22.6\\ 0.7\\ 75.6\\ 195.4\\ 10.2 \end{array}$	$\begin{array}{c} 131.2\\ 224.5\\ 261.4\\ 514.9\\ 542.6\\ 352.5\\ 522.3\\ 435.9\\ 449.0\\ 30.6 \end{array}$
Total		7.9	21.5	29.4	102.9	528.4	699.8	1,331.1	108.7	736.1	869.1	1,713.9	16.0	205.2	169.3	390.5	3,464.9
								OTHER C	ROUNDI	FISH							
Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec. Total				3.6 13.5 				$\begin{array}{c} 1.1 \\ 12.4 \\ 4.7 \\ 20.9 \\ 13.3 \\ 8.6 \\ 14.1 \\ 9.4 \\ 14.4 \\ 3.4 \\ \end{array}$				$ \begin{array}{r} 1.8\\13.0\\5.5\\28.6\\22.5\\12.7\\14.1\\11.1\\45.7\\7.9\\\hline162.9\end{array} $		11111111		$\begin{array}{c} 0.8\\ 0.6\\ 0.9\\ 7.6\\ 9.2\\ 4.1\\ \hline 1.7\\ 31.4\\ 4.5\\ \hline 60 \\ \end{array}$	$\begin{array}{r} 3.7\\ 26.0\\ 11.1\\ 60.7\\ 58.5\\ 25.4\\ 28.2\\ 22.2\\ 91.5\\ 15.8\\ \end{array}$
Grand												102.9				00.8	043.1
Total	113.1	121.2	242.0	493.4	3,671.9	3,242.9	4,777.6	11,794.7	4,450.2	3,871.1	5,700.0	14,184.2	791.9	610.8	916.8	2,380.3	28,852.6

NOTE: \*The number of pair trawlers was 74, their total gross tonnage 14,227, the number of men 1,324, the number of trips 204.

The yield per unit of fishing effort was 2.02 metric tons per vessel tou, 388.4 per vessel, 138.7 per trip and 21.8 per man. \*\*Negligible.

#### UNITED KINGDOM - 1932

#### TABLE 1

#### FISHING EFFORT, LANDINGS, AND YIELD PER UNIT OF FISHING EFFORT

#### OTTER TRAWLERS

#### (Landings in Metric Tons Round Fresh)

		FISHI	NG EFF	ORT					YIELD PER							
Month	Sub- divi-	No. of	Days	Hours Trawl-		Co	bc		Had-	Red-	Hali-	Other Ground-	Grand		Day	Hour Trawl-
	sion	Trips	Absent	ing	Large	Medium	Small	Total	dock	fish	but	fish	Total	Trip	Absent	ing
								SUBAR	EA 1							
February	F	I	23	46	232.5		and the	232.5			0.1	_	232.6	232.6	10.11	5.06
April	D	1	27	30	229.8		-	229.8	_		0.3	0.1	230.2	230.2	8.53	7.67
Мау	C D E	3 5 2	$\begin{array}{r} 66\\112\\40\end{array}$	43 262 77	577.2 1,193.0 469.4	-	7.4	$757.4 \\1,193.0 \\476.8$	_	0.9	$\begin{array}{c} 0.1 \\ 0.3 \end{array}$	0.5	757.5 1,194.7 481.2	$252.5 \\ 238.9 \\ 240.6$	$11.48 \\ 10.67 \\ 12.03$	$17.62 \\ 4.56 \\ 6.25$
Total		10	218	382	2,239.6		7.4	2,427.2	wind -	0.9	0.4	4.9	2,433.4	243.3	11.16	6.37
June	C D	$1 \\ 19$	$23 \\ 431$	$18\\197$	202.9 3,482.7		05 8.8	$\begin{array}{c} 203.4\\ 4,391.0\end{array}$	=	5.7	-	$\begin{array}{c} 2.0\\ 0.5 \end{array}$	205.4 4,397.2	$\begin{array}{c} 205.4\\ 231.4 \end{array}$	$\begin{array}{c} 8.93 \\ 10.20 \end{array}$	$\begin{array}{c}11.41\\22.32\end{array}$
Total		20	454	215	3,685.6	-	9.3	4,594.4		5.7		2.5	4,602.6	230.1	10.14	21.41
luly.	B D F	$\begin{smallmatrix}&2\\18\\1\end{smallmatrix}$	$52 \\ 426 \\ 23$	$     \begin{array}{r}       180 \\       991 \\       50     \end{array} $	108.6 1,804.4	$10.9 \\ 39.1 \\ 12.4$	$20.8 \\ 762.5$	$246.2 \\ 4,075.6 \\ 201.0$	_	$     \begin{array}{r}       1.8 \\       9.3 \\       0.2     \end{array} $	$0.1 \\ 2.1$	$\frac{7.7}{40.8}$	$255.8 \\ 4,127.8 \\ 201.2$	$127.9 \\ 229.3 \\ 201.2$	$4.92 \\ 9.69 \\ 8.75$	$\begin{array}{c}1.42\\4.17\\4.02\end{array}$
Total	24		501	1.221	1,913.0	62.4	783.3	4,522.8	-	11.3	2.2	48.5	4,584.8	218.3	9.15	3.75
August	C D F	1 10 6	$     \begin{array}{r}       18 \\       251 \\       140     \end{array} $	$94 \\ 1,133 \\ 527$	204.3 550.9 395.0	34.1 53.9	$0.1 \\ 19.1 \\ 15.4$	$204.4 \\ 1,588.0 \\ 1,023.3$	$\frac{0.3}{0.6}$	$\frac{-}{3.4}$	$1.0 \\ 3.9 \\ 11.9$	$4.0 \\ 54.8 \\ 38.2$	$209.7 \\ 1,650.1 \\ 1,082.0$	$209.7 \\ 165.0 \\ 180.3$	$11.65 \\ 6.57 \\ 7.73$	$2.23 \\ 1.46 \\ 2.05$
Total		17	409	1.754	1,150.2	88.0	34.6	2,815.7	0.9	11.4	16.8	97.0	2,941.8	173.0	7.19	1.68
September	C D F	10 11 37	$214 \\ 251 \\ 776$	$1,104 \\ 1,066 \\ 2,635$	1,820.4 1,131.9 4,762.6	$34.0 \\ 159.1$	$\begin{array}{c} 0.1\\11.2\\1.8\end{array}$	1,820.5 1,952.6 7,572.5	$\frac{0.4}{1.4}$	3.2 5.7	$\begin{array}{c} 0.1 \\ 11.5 \\ 32.5 \end{array}$	$\begin{array}{c}14.2\\51.0\\33.3\end{array}$	1,835.2 2,018.3 7,645.4	183.5     183.5     206.6		$1.66 \\ 1.89 \\ 2.90$
Total		58	1,241	4,805	7,714.9	193.1	13.1	11,345.6	1.8	8.9	44.1	98.5	11,498.9	198.3	9.27	2.39
October	${f D}{f E}{f F}$	10 1 79	$242 \\ 24 \\ 1,738$	891 64 4,910	1,868.7 194.5 10,183.8	424.7	$\frac{1.0}{10.4}$	1,869.7 194.5 14,990.4		$19.5 \\ 2.5 \\ 40.3$	$     \begin{array}{r}       16.7 \\       2.7 \\       74.4     \end{array} $	$37.5 \\ 2.8 \\ 72.7$	1,943.4 202.5 15,177.8	$194.3 \\ 202.5 \\ 192.1$	$8.03 \\ 8.44 \\ 8.73$	$2.18 \\ 3.16 \\ 3.09$
Total		90	2,004	5,865	12,247.0	424.7	11.4	17,054.6		62.3	93.8	113.0	17,323.7	192.5	8.64	2.95

(Continued)

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		FISI	IING EF	FORT				$\mathbf{L}_{i}$	ANDINGS					YIELD PER		
Month	Sub- divi-	No. of	Days	Hours Trawl-	1.0.970	Co	od n Smal	1 Total	Had-	Red-	Hali-	Other Ground	Grand	Their	Day	Hour Trawl-
	ston	rupa	Absent	mg	Large	wiedian	n onta	1 10(80	UOCK	TISU	DUL	11811	10081	Trip	ADSOIL	Ing
								SUBARI	GA 1							
November	$_{ m F}^{ m D}$	$     \begin{array}{c}       12 \\       32     \end{array} $	$\begin{array}{c} 293 \\ 726 \end{array}$	$1,135 \\ 2,385$	2,227.3 4,889.5	98.5	5.6 3.1	$2,232.9 \\ 5,934.2$	0.3	$\substack{\textbf{32.1}\\\textbf{18.6}}$	$\begin{array}{c} 21.4 \\ 50.4 \end{array}$	$\substack{82.2\\51.2}$	2,368.6 6,054.7	197.4 189.2		$\begin{array}{c} 2.09 \\ 2.54 \end{array}$
Total		44	1,019	3,520	7,116.8	98.5	8.7	8,167.1	0.3	50.7	71.8	133.4	8,423.3	191.4	8.27	2,39
December	D F	$\frac{2}{19}$	$\begin{array}{c} 47\\ 424 \end{array}$	$228 \\ 1,663$	$\begin{array}{r} 417.4\\4,232.6\end{array}$	35.0	5.9	$423.3 \\ 4,468.3$	0.1	$\frac{4.6}{2.8}$	$\frac{8.8}{54.3}$	$24.8 \\ 39.4$	$\begin{array}{r} 461.5\\ 4,564.9\end{array}$	$230.8 \\ 240.3$	$\begin{array}{c} 9.82\\ 10.77\end{array}$	$\substack{2.02\\2.74}$
Total		21	471	1,891	4,650.0	35.0	5.9	4,891.6	0.1	7.4	63.1	64.2	5,026.4	239.4	10.67	2.66
Total for the Year	B C D E	2 15 88 3	$52 \\ 321 \\ 2,080 \\ 64 \\ 3,850$	$180 \\ 1,259 \\ 5,933 \\ 141 \\ 12,216 \\ 120 \\ 180$	$   \begin{array}{r}     108.6 \\     2,804.8 \\     12,906.1 \\     663.9 \\     24.696.0   \end{array} $	10.9 107.2 783.6	$20.8 \\ 0.7 \\ 814.1 \\ 7.4 \\ 30.7$	246.2 2,985.7 17,955.9 671.3 34 423.2	0.7	$     1.8 \\     \overline{ 78.7} \\     2.5 \\     75.6     $	$\begin{array}{r} 0.1 \\ 1.2 \\ 65.0 \\ 2.7 \\ 923.6 \end{array}$	7.7 20.2 292.2 7.2 234.8	25.8 3,007.8 18,391.8 683.7 34.958.6	$   \begin{array}{r}     127.9 \\     200.5 \\     209.0 \\     227.9 \\     199.8 \\   \end{array} $	4.92 9.37 8.84 10.68 9.08	$1.42 \\ 1.34 \\ 3.68 \\ 4.85 \\ 2.87 \\ 87$
TOTAL	r	283	6,367	19,729	41,179.4	901.7	873.7	56,281.3	3.1	158.6	292.6	562.1	57,297.7	202.5	9.00	2.90
								SUBAR	EA 2							
October		6	146	361	386,6	6.8	411.5	1,000.9		-	0.5	47.9	1,049.3	174.9	7.19	2.91
Total Subarea	1 and 2	289	6,513	20,090	41,566.0	908.5	1,285.2	57,282.2	3.1	158.6	293.1	610.0	58,347.0	201.9	8.96	2.90

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TABLE 1 (Continued)

# TABLE 2 FISHING EFFORT, LANDINGS, AND YIELD PER UNIT OF FISHING EFFORT LONG LINERS (Landings in Metric Tons Round Fresh)

		FISHING EFFORT					YIELD PER				
36 13	Sub-	27.0		Coo	1	D 16' 1	TT-121	0.1	Grand	Tria	Davi
Month	divisiou	No. of Trips	Days – Absent	Large	Total	- Redlish	напонг	Groundfish	Total	Abs	Absent
					SUBAR	EA 1					
June	18	1	28		1.5		7.6	0.3	9.4	9.4	0.34
July	1C	1	30		0.4	0.2	48.0	0.2	48.8	48.8	1.63
August	1D	1	23	<u> </u>	10.0	0.3	6.3	3.5	20.1	20.1	0.87
October	$\overline{1F}$	ī	30	3.8	13.2	-	13.9		27.1	27.1	0.90
Total		4	111	3.8	25.1	0.5	75.8	4.0	105.4	26.4	0.95
					SUBARE	A 2					
September		1	29	_	2.2		21.4	_	23.6	23.6	0.81
Total			1								
Subarea	1 and 2	5	140	3.8	27.3	0.5	97.2	4_0	129.0	25.8	0.92

#### UNITED STATES — 1952 LANDINGS

(In Metric Tons Round Fresh) SUBAREA 3 SUBAREA 5 GRAND SUBAREA 4 Total Total TOTAL Medium Small Total Medium Small Large Medium Small Large Large COD 20,282.616.5 58.5 1.276.22,342.2 2,794.2 660.8 5,797.2 5,403.4 7,723 3 1,282.5 14,409.2HADDOCK 48,605.3 10,776.6 25,003.6 18,470.0 30,135.3 73,613.3 2.2 2.2 4.4 14,227.0 REDFISH 31,463.2 31,344.0 21,377.2 84,184.4 HALIBUT 123.3175.9÷ 52.6FLOUNDERS\*\* 87.5 1,577.5 24,031.6 25,696.6 OTHER GROUNDFISH\*\*\* 72,001.9 75,611.9 24.4 3,585.6 \_ -----18.7 58.5 3.4 31,655.7 16,569.2 2,794.2 11,437.4 67,360.5 23,873.4 7,723.3 31,417.8 180,548.5 279,564.7

NOTE: \*Negligible Quantity. \*\*Includes: Yellowtail, lemon sole, gray sole, blackback, dab and fluke. \*\*\*Includes: White hake, red hake, pollock, whiting and cusk.

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#### APPENDIX GERMANY — 1952 LANDINGS FROM SUBAREA 1 BY!SUBDIVISIONS (In Metric Tons of Eviscerated Fish)

Month			LANDINGS		
Subdivision	Cod	Redfish	Halibut	Other Groundfish	Total
July — 1 B, C, D, E	786	174	1	9	970
August — 1 B, C, D, E	36	125	1	6	168
October — 1 F	200	1	1	1	203
November — 1 F	418			13	431
December — 1 F	632			15	647
TOTAL	2,072	300	3	44	2,419

SOURCE: Arno Meyer: Die Neue Doutsche Grönland-Schleppnetzfischerei 1952-53. Bundesanstalt für Fischerei, Inst. für Seefischerei, Hamburg.

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#### PART 3

## Revisions and Additions to Vol. 1 REMARKS

In this part there are two tables dealing with landings of cod. These two tables have the same number and title as the ones to which they correspond in Vol. 1. Table 2a, contains revisions only while Table 2b includes also statistics for a few countries relative to earlier years for which data were not available at the time Vol. 1 was printed. Due to the special importance of cod fishing it is considered advisable to reproduce these two tables now.

Material for a revision of the other tables in Vol. I is also available now. However, it was decided to postpone a reprinting of these tables, pending a possible general revision of Commission Statistics at a later time, when the results of further experimental studies of conversion factors could be considered.

It should be noted that a complete revision which could have been made now of these other tables would not have changed the former statistics appreciably.

COLDUTE			SUBAREA			Subarea	Total	Total
COUNTRY	5	4	3	2	1	Indicated	Tons	Pounds
CANADA								
Excluding Nfld	_	99,889	18.346				118 235	
Newfoundland		11.634	208,849	28.128	_	-	248,611	
Total	_	111,523	227,195	28,128			366,846	808,761
DENMARK								
Faroes					34.360		34.360	
Denmark		_			5.345		5.345	
W. Greenland		-			17,743		17,743	
Total	_	-		-	57,448		57,448	126,652
FRANCE*								
Dory Vessel			_			1 469	1 460	
Otter Trawler			_	-		111,000	111,000	
Total			-			112,469	112,469	247,953
ICELAND								
Otter Trawler	_				14,302		14,302	31,531
ITALY.								
Otter Trawler	-	-	9,620	-	Walker.		9,620	21,203
NORWAY								
Long Liners				_	35.548	7.390	42.938	
Otter Trawler					240		240	
Total		_			35,788	7,390	43,178	95,192
PORTUGAL								
Dory Vessel	-		-	-	48.361	12.551	60.912	
Otter Trawler	_					60.871	60.871	
Total	_		-	-	48,361	73,422	121,783	268,487
SPAIN								
Pair Trawler			36,976				36,976	
Otter Trawler			7,340	1,106	_	20,625	29,071	
Total	_	-	44,316	1,106		20,625	66,047	145,609
UNITED KINGDOM								
Long Liners		-		_	55		55	
Otter Trawler	(THE REAL PROPERTY AND A DECIMAL PROPERTY AND		63	_	12,238		12,301	
Total	_	_	63		12,293	-	12,356	27,240
U. S. A.	19,399	4,409	83	-	-		23,891	52,671
GRAND TOTAL	19,399	115,932	281,277	29,234	168,192	213,906	827,940	1,825,305

TABLE 2a. DIGEST OF COD STATISTICS FOR THE CONVENTION AREA 1951 In Metric Tons Round Fresh

NOTE: \*-The catch is divided between Subareas 1, 2 and 3.

#### TABLE 2b. SUMMARY OF LANDINGS OF ROUND FRESH COD FOR ALL COUNTRIES In Metric Tons Round Fresh.

1930-1951

	Canada Denmark		rk	France	Iceland	Italy	Norway	Portugal	Spain	United	United		
Year	Mar. « Quebec	& Nfkl.	Farces	Denmark	West Greenland							Kingdom	States
1930	90,434	-			10,256	77.902	_	_	_	8,898	13.251	2.861	56.615
1931	79,577	270,470			9,615	19,476			265	6.170	16.787	3.063	51.029
1932	77,628	266,071	-		9,745	17,810			506	11.466	21.781	1.517	48,504
1933	84,720	284,558			8,523	72,288		-		19,187	25.172	325	56.201
1934	82,600	280,123	_		9,840	76,032		_	963	22.878	26.200	405	65,903
1935	82,867	305,952			7,796	103,538			472	24,962	24.560	2.264	65,978
1936	92,089	295,275			7,422	65,858			2,538	32,468	11,051	6.011	60,830
1937	82,152	223,171			7,201	105,926			2,076	39,829	_	687	75,025
1938	91,627	271,139		_	5,680	152,952		1,529	5,579	36,336	-	556	68,388
1939	88,132	247,337	25,468	_	7,431	_		5,477	11,556	48,480	6,339		60,218
1940	104,306	221,726	13,935		8,331			1,905		50,993	12,745		46,041
1941	106,005	217,158			8,936				_	51,320	_	_	55,220
1942	105,354	187,873	-	_	12,479			_		52,545			36,778
1943	116,447	244,537	_		13,527				-	57,012	5,924		36,882
1944	127,968	276,059		-	13,883	10,070	-			61,693	8,327		52,096
1945	158,433	291,165			14,851	26,308		-		70,771	26,890		77,594
1946	175,878	294,096	2,263		15,626	57,878			265	77,894	33,160	52	49,780
1947	125,884	305,280	6,583		17,881	77,343	_		1,840	84,496	36,533	94	35,527
1948	139,383	257,197	15,555	1,971	18,997	106,728	_	2,646	784	88,311	25,077	12,027	37,955
1949	134,054	262,688	18,320	3,489	16,887	118,142		2,132	14,961	110,146	21,356	17,336	33,093
1950	136, 120	236,921	29,775	5,256	20,718	125,046	_	13,625	30,615	128,309	58,436	1,905	30,956
1951	118,235	248,611	34,360	5,345	17,743	112,469	14,302	9,620	43,178	121,783	66,047	12,356	23,891

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