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Portuguese Research Report for 1992

by

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A. Status of the fisheries.

The Portuguese nominal catches recorded an overall decrease of 52% from 1991 (75,314 ton) to 1992 (36,219 ton). The closure of the fishery for the most important stocks in July led to a severe reduction in the nominal catches of cod, redfish and American plaice in all divisions and for both trawl and gillnet fleets.

Nominal trawl catches of cod have declined in Divisions 3L and 3N, from 8,326 ton in 1991 to 3274 ton in 1992 and from 674 ton to 183 ton respectively. The trawl cod catches in Division 3M were relatively stable at 2,039 ton in 1992 (compared with 2,321 ton in 1991). As for the cod gillnet nominal catches, there is a decline in Div. 3M from 516 ton to 162 ton, while in Div. 3N the small increase observed of 247 ton in 1992 compared with the 197 ton of 1991 did not balance the drop observed in Div. 3O from 172 ton to 6 ton.

For redfish, the decline recorded for trawl in Div. 3L, from 5076 ton in 1991 to 709 ton in 1992, was the main cause to the fall of the total catch of these species to almost half of the 1991 value (12,163 ton in 1991 to 6,581 ton in 1992), which in turn represented 70% of the 1990 catches. In the other Divisions, and if considering 3N and 3O as a whole, although recording minor decreases the trawl redfish catches were kept at the same level.

Nominal trawl catches of Greenland halibut in Div. 3N were stabilized at 3,506 ton, doubled in Div. 3M reaching 4,232 ton but in Div. 3L declined 75% from 1991, to just 2122 ton in 1992. The most important unquoted species have recorded important reductions in 1992, with special reference to skates which fall from 23,301 ton in 1991 to 7 017 ton in 1992. The skate nominal catches from trawl for Div. 3L were the major cause of this decline.

The Portuguese fleet operating in the NAFO Regulatory Area in 1992 was composed of 19 trawlers and 6 gillnetters. Trawl effort has declined 55% from the previous year, mainly in Div. 3L (-75%) and in Division 3N (-40%). Nevertheless, in Div. 3O trawl effort in fishing hours increased from 332 hours in 1991 to 2281 hours in 1992. Gillnet effort was only reduced 12% from the previous year and, although Div. 3M is still the major fishing ground for this component of the Portuguese fleet, gillnetters usually operating on Flemish Cap diverted part of their effort to Div. 3N in June/July, continuing to increase substantially their effort in Div. 3O.

Due to different spatial distribution of the most important stocks for the Portuguese fleets, associated to an increase search for unregulated species such as Greenland halibut, Portuguese fisheries continued to move towards deep sea. As for the depth distribution of trawl catches, maximum depths for cod were observed from February to May in Div. 3N, down to 1330 m/ 1450 m, and for American plaice on May in Div. 3M at 740 m/923 m.

The nominal catches and effort for 1992 are presented in Tables 1 and 2, by gear and division.

B. Portuguese Annual Sampling Program.

1. Introduction.

During 1992 only stern trawlers were sampled (two), since the last Portuguese side trawler in the NAFO area, monitored over the last three years, made its last trip in 1991. These trawlers were fishing in Divisions 3L, 3M and 3N, one from February to June and the other from March to August. Two gill-neters were also sampled, one fishing mainly in Div. 3N from May to August and the other mainly in Div. 3M from May to October.

For the four vessels sampled, catch and effort data were collected as usual through direct daily consultation on board of the captain's log-book records. Biological sampling was conducted according to the NAFO Sampling recommendations, for the most abundant species in each haul. Length compositions have been recorded for the first time for species like rough-head grenadier and red hake, and otoliths have started to be collected for redfish and Greenland halibut in an attempt to establish ageing routines for these species/stocks.

Effort data obtained through this sampling program have being processed in order to estimate the 1992 total Portuguese effort in the NAFO standard effort units, using the fishing days reported each month for each division by the Portuguese trawl and gillnet fleets. These effort daily data from the sampled vessels have also been broken down to directed effort for the target species of each month and division and associated to the correspondent catches to get the monthly cpue's observed during 1992.

Redfish mentella continues to dominate the redfish catches in all divisions and so, for the redfish fishery in Div. 3M, catch at age is derived from the S. mentella age/length key of the July 92 EEC cruise. The same occurred with the 3M American plaice catch at age from trawl, due to the poor age sampling of this catch.

Age composition of the 3L American plaice trawl catches is presented for the first time. Ageing of this species/Division usually presents some difficulties in the interpretation of the otoliths and is susceptible of future adjustments.

In order to assess the impact to the cod stocks of trawling for redfish and Greenland halibut, cod by-catch rates have been computed for these two fisheries in each month and division.

The intensity of sampling during 1992 is presented in Table 3, by month/ gear /species and division.

2. Comments on catch and effort data (from the trawlers and gillnetters sampled).

Division 3L.

The trawl cod catch rates have being kept at a high level since 1990, although a slight decreased is observed from 1991 (1.015 ton/h) to 1992 (0.964 ton/h). Trawl directed effort to cod halved in 1992 and the fishing season concentrated in April and May, although the highest catch rate is from March (1.8 t/h). 93% of the directed trawl effort to cod occurred at depths below 400 m.

Directed trawl effort to American plaice, first recorded in 1991, almost doubled in 1992 and the catch rate increased from 0.21 t/h in 1991 to 0.43 in 1992, during the same season as the previous year (February/April).

Redfish trawl catch rates continued to decline, going down from 0.46 ton/h in 1991 to 0.28 ton/h in 1992, despite a second consecutive fall of the directed effort to 22% of the 1991 value. Almost all the hauls to redfish were below 400m, with an average cod by-catch rate of 4.2%.

A decline of the same magnitude is observed in the Greenland halibut catch rates, where a mean value of 0.28 ton/h is recorded in 1992, against the 0.42 ton/h of 1991, for a similar fishing season (February/ June) in both years. Nevertheless directed trawl effort almost tripled from 1991 to 1992. Cod by-catch rate in this fishery averaged 2.0%.

Division 3M.

Although for trawl in Flemish Cap redfish was still in 1992 the major target species, its directed effort declined to 27% of the previous year, all of it deployed at depths greater than 400 m. Catch rates, that have been steadily around 0.58 from 1989 to 1991, increased in 1992 to almost the double reaching 1.1 ton/h. Cod by-catch rate bellow 400m, that remained constant around 9% in 1990 and 1991, almost vanished in 1992 with an average value of 0.4%.

Trawl directed effort for cod jumped from a level near zero observed in 1991 to a level approaching the redfish fishery. Catch rates tripled from 0.449 ton/h on 1991 to 1.419 in 1992. The majority of the cod effort was applied on June and July at bottoms above 400 m. Oposite trend is showned by the gillnet cod fishery, exploiting the adult component: the mean catch rate of 1992 was 4.3 kg/net/day against 8.8 kg/net/day recorded on 1991, while gillnet effort declined 27% from 1991.

Division 3N.

Greeland halibut was the main target species for trawl in 1992, with a directed effort nine times greater than 1991 and spread from February to August. Catch rates doubled from one year to the other (0.193 ton/h in 1991 and 0.402 ton/h in 1992) and were distributed from Lat. 43° 36' N to 45° 57' N and Long. 47° 43' W to 49° 06' W, with a cod by-catch of 1.6%.

Skate appeared with the second highest directed trawl effort, although around 70% of it was concentrated on June. There was no effort directed to skates on 1991, but the catch rate for 1992 was 0.53 ton/h, well bellow the 1.391 ton/h recorded on 1990 for a similar level of directed effort.

Redfish directed effort for trawl fall to 20% of the 1991 one. Average catch rate records a slight increase of 10%, from 0.287 ton/h in 1991 to 0.317 ton/h in 1992. Most of the redfish effort occurred at depths bellow 400m, on January and February, with a cod by-catch rate of 7.5%.

Trawl directed effort for cod also declined to one quarter of the previous year, but catch rates increased 40% from 1991, averaging 0.376 ton/h. Cod effort is distributed from February to May, the majority of it (65%) bellow 400m. As for cod catch rates from gillnets they declined 20% from 1991 and remained at the level observed at 1990 (around 7kg/net/day). Fishing effort increased 30%.

American plaice almost didn't occurred as a target species on 1992, recording only 12% of the 1991 directed effort, concentrated on February. Catch rates declined from 0.335 ton/h on 1991 to 0.210 ton/h on 1992.

Yellowtail flounder was not observed on 1992 in the flatfish catches of the trawlers sampled.

3. LENGTH AND AGE COMPOSITION

Division 3L.

Cod trawl catches in Div. 3L were dominated by the 1989, 1988 and 1987 year classes, with lengths between 30cm and 44cm. The mean weights at age in 1992 were similar to the ones recorded in 1991.

Red fish catches for trawl in Div. 3L were mainly from 22cm to 35cm, with a mode for both sexes at 27cm. Mean lengths and weights in the catch increased from 1991, for males and females.

Catches of Greenland halibut, also from trawl, were composed of lengths between 34cm - 50cm for males and between 32cm - 53 cm for females, with modes at 36cm and 40cm respectively. Length distributions, modal lengths, mean lengths and mean weights in the catch declined in 1992 from the 1991 values, wich in turn were smaller than the ones observed in 1990.

As for American plaice, ages 7 (females) and 8 (males) were the most abundant in the trawl catches, that ranged from 24cm to 38cm and 26cm to 42 cm respectively. Length modes on both sexes were at 32cm - 34 cm. Length distributions and mean weights in the catch declined from the previous year.

Division 3M.

Biological information for cod in Div. 3M came from both trawl and gillnet catches, mainly sampled on June and July. Trawl catches were dominated by the 1990 year class followed by the ones from 1989 and 1988, with lengths between 27 cm and 42 cm. From the EEC survey series on Flemish Cap, which started in 1988, the 1990 year-class is the most abundant year-class ever recorded at age 1. Comparing August 91 with July 92, mean weights at age from trawl suffered a general decline.

Most of the gillnetts cod catches were composed of lengths from 57 cm to 70 cm with the 1985 and 1986 year classes dominant. Mean weights at age showed a slight decrease for these ages from 1991 to 1992 that can be attributed to a high level of sampling during the 4th quarter of 1991.

For the redfish from trawl, lengths from 26 cm to 36 cm were the bulk of the catches, both for males and females with the 1984 and 1983 year classes dominant, followed by the 1982 one (ages 8, 9 and 10 respectively). Mean weights at age remain the same on both sexes as on 1991, while the mean weight in the catch presents a slight increase.

The gillnet redfish catch was mainly composed of individuals with lengths between 26 and 38 cm for males, with one mode at 27 cm, and between 26 cm and 42 cm for females with two modes, one at 28 cm and another at 38 cm - 39 cm. Most of this catch is spread evenly through ages from 8 to 17 years old, with the mean weights at age remaining constant or showing a slight increase.

For Greenland halibut 3M, trawl catches were weakly sampled. In addition, biological information on gillnets is available for the first time. Trawl catches ranged from 38 cm to 54 cm for males and 40 cm to 60 cm for females, both sexes presenting a modal length at 44 cm.

Length composition of the Greenland halibut gillnet catches, sampled from August to October, presents males between 44 cm and 54 cm, and females from 42 cm to 60 cm, both with a mode at 48 cm.

The American plaice information for the Div. 3M catches refers mainly to the gillnet fishery, sampled from June to October. Length distributions are quite different for each sex, with males ranging basically from 26 cm to 42 cm while female catches concentrate on the 40 cm - 52 cm range. Identical mean weights in the catch are observed in 1991 and 1992. Age 6 males were the most abundant followed by ages 7 and 5. Female catches were clearly dominated by the still strong 1979 year-class (with 46 cm-50 cm), followed by the 1986 one.

For the American plaice trawl catches the biological information available is weak but points out to maintenance of the 1986 year-class as the most abundant on catches of both sexes.

DIVISION 3N

Cod trawl catches, sampled from February till May, were mainly composed of fish with lengths between 27 cm to 57 cm, with the 1989 year class continuing to be dominant, followed by the 1988 one. Most of the lengths of cod from gillnets are in the 60 cm-110 cm intervals, with the 1981 and 1982 year-classes being by far the most abundant.

Mean weights at age are quite similar for trawl and showed a slight increase in the dominant year classes of gillnets when compared to 1991, although sampling has been concentrated mainly on the first and second quarter in 1992, and on the second and third quarter in 1991. For both trawl and gillnets either the lower and upper limits of the lengths distributions, the modal lengths and the meanweights in the catch increased from 1991 to 1992.

Catches of redfish came only from trawl and were sampled during February, March and May. Both male and female length frequencies are higher within a range from 20 cm to 32 cm, with two modes for males at 23 cm - 25 cm and 29 cm - 31 cm and one mode for females at 23 cm - 24 cm. Length ranges and mean weights in the catch are identical to the ones observed in 1991.

Greenland halibut length composition is available for trawl catches sampled from April to August. Most of the male lengths fall in the 38 cm - 50 cm interval, with a mode at 44 cm, and females in the 32cm - 58 cm interval, with a mode at 42 cm. Length ranges are similar to 1991 although the mean weight in the catch showed a small increase.

For American plaice, lengths between 22 cm and 42 cm for males and 24 cm and 46 cm were the bulk of the trawl catches, the males with one mode at 34 cm and the females with modes at 28 cm-30 cm and at 34 cm. The 1985 year-class was the most abundant for males and females from trawl. Although the mean weight in the trawl is similar to the previous year, mean weights at age of males and females declined. On the gillnet catches the 1983 year-class for males and the 1984 for females were modal and for both sexes ages 7 to 11 are well represented.

Catches of yellowtail flounder only appeared in the gill-netters sampled on Division 3N. Both for males and females the 1985 year-class was dominant corresponding to modal lengths of 32 cm for males and 34-36 cm for females.

4.4 OTHERS

Some information on the witch flounder trawl catches is available for the 3 Divisions 3L, 3M and 3N. For Div. 3L lengths ranged from 42 cm to 56 cm for males and 36 cm to 58 cm for females, with modes at 48 cm - 50 cm and 46 cm respectively. Length interval for trawl catches in Division 3M were of 36 cm - 52 cm for both sexes, with two distinct modes for males at 38 cm and 44 cm, and the length groups of 40 cm to 44 cm forming the bulk of the female catches. For Div. 3N a higher upper limit of length distribution of the majority of the trawl catches is observed with witch flounders of both sexes going up to 58 cm, males recording modal lengths at 46 cm - 48 cm and females at 44 cm - 46 cm. Gillnet witch flounder catches on Division 3M present modes at 40 cm and 48 cm on males and 42 cm and 50 cm on females.

Finally information on Roughead grenadier length composition came from the trawl catches in Div. 3N, with two modes both for males and females at 17 cm and 29 cm. Length measurement refers to the anal length.

TABLE I : PORTUGUESE NOMINAL CATCHES (mt) IN NAFO AREA, 1992

DIVISION														
SPECIES	3L		3M		3N		3O		TOTAL 1992	TOTAL 1991	TOTAL 1990	TOTAL 1989	TOTAL 1988	
	OT	GNS	OT	GNS	OT	GNS	OT	GNS						
Cod	3274.4	60.9	2039	161.7	182.5	246.9	12.1	6.1	5984	13357	15138	24129	12931	
Redfish	709.3	57.9	3099.8	97.9	1143.1	5.2	1466.5	1	6581	12163	17810	18870	17072	
American plaice	78		290.9	21.7	51	4.8	4.8	0.2	451	1288	714	1821	1791	
Yellowtail(1)						1.3			1	10	11	5		
Witch flounder	285.1		141.4	20	361.6	11.4	25.5	4.1	849	1982	2254	16	12	
Greenland halibut	2121.6	5.4	4231.8	264.5	3506.4	11.8	387.1	10.5	10539	13961	11170	3614	4194	
Atlantic halibut	12.8		5.3	1.8	41	0.1	17.8	2	81	228	91			
Roundnose grenadier	386.3		989.5	31.7	468.5		121.9	1.7	2000	4486	3211	290	914	
Anarhichas spp.	51.9	0.1	1422.1	14.9	95.7		111.6	0	1696	2842	1940			
Haddock					33.2	0.9	130.3	1.7	166	83	17			
Pollock				0.8	10	4.5	8.7	3.5	28	421	11			
Red hake				8.1	35.4	89.4	65.6	267.2	466	1009	467			
Capelin											77			
Monkfish					6.9	0.6	13.9	15.5	37	10	2			
Skates	1415.2	0.2	3185	11.7	2038	5	356.9	4.5	7017	23301	13569	663	1097	
Unidentified	144.1		78.6	1	94.1	4.4	1	1.7	325	174	852			
TOTAL	8478.7	124.5	15483.4	635.8	8067.4	386.3	2723.7	319.7	36219	75314	67334	49408	38011	

(1) From the 1992 sampling, there were no yellowtail trawl catches recorded. For the 3N gillnet catches the average proportion of yellowtail mixed in the american plaice catches was 26%.

TABLE II : PORTUGUESE EFFORT IN FISHING DAYS AND FISHING HOURS (TRAWL) OR NUMBER OF NETS (GILLNETS), IN NAFO AREA IN 1992.

DIVISION																
MONTH	3L				3M				3N				3O			
	OT		GNS		OT		GNS		OT		GNS		OT		GNS	
	DAYS	HOURS	DAYS	NETS	DAYS	HOURS	DAYS	NETS	DAYS	HOURS	DAYS	NETS	DAYS	HOURS	DAYS	NETS
JAN.	131	1533			5	52			91	928						
FEB.	39	511			42	434			164	2242						
MAR.	22	219			47	486	6	1810	144	1792			2	25		
APR.	253	3139	9	2715	99	1109	41	12368	42	177			23	97		
MAY	143	1904	17	6273	125	1277	40	14760	24	313	16	5240	29	281		
JUN.	15	204	7	3513	138	2057	67	33628	83	1336	48	23328	32	515	23	7360
JUL.	2	22			150	2051	60	30743	43	585	40	20588			28	10425
AUG.	23	283			33	472	82	34622	109	1574			9	130	19	8068
SEP.	16	197			57	797	118	35400	99	1388			5	70		
OCT.		0			34	351	37	11100	29	296			55	561		
NOV.	1	12			19	196	14	4200	38	388			48	490		
DEC.	18	211			158	1633			21	214			11	112		
TOTAL	662	8233	33	12501	907	10914	465	178631	887	11233.2	104	49156	214	2281	70	25852

Note: Fishing hours and number of nets estimated from their monthly rates to fishing days observed in the trawlers and gillnetters sampled by the INIP.
Monthly effort of gillnetters is given by the sum of nets per fishing day

TABLE II (cont.)

MONTH	TOTAL 1992				TOTAL 1991				TOTAL 1990				TOTAL 1989			
	OT		GNS		OT		GNS		OT		GNS		OT		GNS	
	DAYS	HOURS	DAYS	NETS	DAYS	HOURS	DAYS	NETS	DAYS	HOURS	DAYS	NETS	DAYS	HOURS	DAYS	NETS
JAN.	227	2513			99	949			123	1616	25	6241	351	4612		
FEB.	244	3187			184	1774			155	2255	16	3994	348	5063		
MAR.	215	2521	6	1810	326	4293	40	11759	418	5785	43	10735	382	5287		
APR.	417	4522	50	15083	732	9760	51	14992	523	7019	45	14648	375	5033	6	1760
MAY	321	3775	73	25273	647	8412	104	29428	448	5833	74	24087	383	4987	127	43917
JUN.	268	4112	145	67829	522	8172	42	16174	400	5780	81	29962	501	7239	161	63144
JUL.	195	2658	128	51755	422	5986	71	31147	293	4647	164	61516	301	4774	112	44834
AUG.	174	2458	101	42690	407	5266	153	93191	482	8271	126	47263	178	3054	176	73251
SEP.	177	2452	118	35400	450	7330	69	33476	469	7663	39	14629	219	3578	52	19609
OCT.	118	1208	37	11100	674	10833	84	36540	466	6431	67	15377	361	4982	36	13885
NOV.	106	1085	14	4200	482	7137	87	32400	968	13358	30	9464	270	3726	22	8485
DEC.	208	2170			352	4915	11	3300	281	3878	4	816	181	2498		
TOTAL	2670	32662	672	266141	5297	74829	712	302407	5026	72536	714	238732	3850	54833	692	268885

TABLE III: Intensity of sampling during 1992, by gear, species, division and month.

A- STEER TRAWL

SPECIES	DIV.	MONTH	NO OF SAMPLES	NO FISH MEASURED	SAMPLING WEIGHT(Kg)	OTOLITHS NO LENGTH RANGE
COD	3L	MAR.	7	602	462	101 31-64 cm
		APR.	31	4780	2810	389 25-94 cm
		MAY	17	2459	1582	219 29-96 cm
	3M	MAR.	1	69	32	57 29-54 cm
		JUN.	9	1821	795	201 26-84 cm
		JUL.	7	1023	482	103 28-83 cm
	3N	FEB.	7	380	383	147 30-83 cm
		MAR.	6	513	374	114 30-74 cm
		APR.	1	40	13	38 29-47 cm
		MAY	4	437	206	68 24-88 cm
REDFISH	3L	MAR.	5	563	221	
		APR.	23	2438	1077	427 19-65 cm
		MAY	16	1376	513	307 20-47 cm
		JUN.	4	329	178	112 28-42 cm
	3M	MAR.	10	978	419	
		APR.	10	1610	743	207 21-48 cm
		MAY	10	1108	418	192 21-43 cm
		JUN.	2	154	82	98 26-44 cm
	3N	FEB.	10	1062	443	
		MAR.	3	333	134	
		MAY	3	424	236	156 25-43 cm
AMERICAN PLAICE	3L	FEB.	5	261	103	83 20-61 cm
		APR.	14	1046	461	268 23-61 cm
		MAY	2	57	25	48 28-52 cm
	3M	APR.	1	7	3	7 32-39 cm
		MAY	1	46	34	48 34-52 cm
		JUN.	2	60	56	58 30-58 cm
	3N	FEB.	9	768	307	118 19-50 cm
		APR.	1	24	7	23 29-41 cm
		MAY	2	215	105	104 27-61 cm
WITCH FLOUNDER	3L	APR.	9	168	184	
		JUN.	2	94	74	
	3M	APR.	1	27	16	
		MAY	2	77	37	
	3N	JUN.	9	452	421	

A- STERN TRAWL (cont.)

SPECIES	DIV.	MONTH	No OF SAMPLES	No FISH MEASURED	SAMPLING WEIGHT(Kg)	OTOLITHS No LENGTH RANGE
ROUGHHEAD GRENADE	3L	JUN.	2	84	83	
	3M	MAY	2	35	26	
	3M	MAY	1	54	59	
		JUN.	14	844	850	
		JUL.	5	206	176	
		AUG.	10	514	347	
GREENLAND HALIBUT	3L	APR.	10	433	277	187 29-59 cm
		MAY	3	149	178	145 32-72 cm
		JUN.	3	301	228	165 35-66 cm
	3M	APR.	2	57	54	56 39-68 cm
	3M	APR.	1	8	6	8 38-49 cm
		MAY	3	231	366	188 36-85 cm
		JUN.	10	1435	1253	276 29-80 cm
		JUL.	16	1557	1569	280 31-87 cm
		AUG.	11	934	767	

B- GILLNETS

SPECIES	DIV.	MONTH	No OF SAMPLES	No FISH MEASURED	SAMPLING WEIGHT(Kg)	OTOLITHS No LENGTH RANGE
COD	3M	JUN.	15	2672	7362	264 39-107 cm
		JUL.	20	3930	10397	296 40-118 cm
	3N	MAY	15	1541	17487	207 74-131 cm
		JUN.	19	1932	20895	255 55-139 cm
		JUL.	33	3599	30100	306 45-144 cm
REDFISH	3M	MAY	4	796	615	
		JUN.	9	2252	1246	187 24-55 cm
		AUG.	1	150	82	71 25-44 cm
AMERICAN PLAICE	3M	JUN.	16	1531	1141	276 25-59 cm
		JUL.	13	1520	971	227 25-61 cm
		SEP.	24	1061	977	230 26-60 cm
	3N	MAY	13	648	568	262 27-72 cm
		JUN.	16	904	718	222 29-67 cm
		JUL.	23	1136	695	284 24-70 cm
WITCH FLOUNDER	3M	JUN.	4	46	36	47 29-68 cm
		JUL.	1	16	12	16 38-60 cm
		AUG.	17	669	439	185 32-64 cm
		SEP.	20	429	262	181 33-61 cm
		OCT.	1	5	3	
GREENLAND HALIBUT	3M	AUG.	4	68	76	65 41-66 cm
		SEP.	16	2293	2837	303 36-91 cm
		OCT.	1	202	202	117 39-63 cm
YELLOWTAIL FLOUNDER	3M	MAY	12	333	159	150 27-51 cm
		JUN.	16	499	229	135 25-49 cm
		JUL.	21	1223	546	176 27-53 cm
RED HAKE	3O	AUG.	11	1554	4508	177 55-94 cm

TABLE IV - A : Portuguese stern trawl fisheries (from 2 076 vessels sampled): directed effort, cpue and by-catch by month and division, for 1992.

DIVISION	MONTH	DEPTH	C.P.U.E.		MAIN BY-CATCH		MEAN BY-CATCH (%)	
			TARGET	SPECIES (ton/hour)	SPICES	MAIN SPECIES	TOTAL	TOTAL
3L	FEB.		AM. PLAICE	0.460	G. HALIBUT	29.3	57.1	
3L	FEB.		G. HALIBUT	0.279	AM. PLAICE	22.0	52.8	
3L	MAR.	>400	COD	1.799	RED-FISH	2.9	6.6	
3L	MAR.		G. HALIBUT	0.314	SKATE	15.9	53.7	
					RED-FISH	15.4	53.7	
3L	APR.	>400	COD	1.129	RED-FISH	4.6	9.7	
3L	APR.	>400	RED-FISH	0.553	COD	16.6	39.3	
3L	APR.		AM. PLAICE	0.192	RED-FISH	34.6	66.5	
3L	MAY	TOTAL	COD	0.518	RED-FISH	7.7	18.5	
3L	MAY	<400	COD	1.050	PAL	0.6	1.2	
3L	MAY	>400	COD	0.422	RED-FISH	8.9	18.6	
3L	MAY	TOTAL	RED-FISH	0.238	G. HALIBUT	28.4	58.1	
3L	MAY	<400	RED-FISH	0.355	COD	49.6	58.1	
3L	MAY	>400	RED-FISH	0.233	PAL	30.0	58.2	
3L	MAY		G. HALIBUT	0.226	RED-FISH	29.1	60.7	
3L	JUN.		G. HALIBUT	0.333	SKATE	21.4	46.9	
3L	JUL.		G. HALIBUT	0.209	ROUGHHEAD G.	12.5	28.1	
3M	MAR.	>400	COD	0.209	RED-FISH	26.7	26.7	
3M	MAR.	>400	RED-FISH	1.193	G. HALIBUT	0.7	1.6	
3M	APR.	>400	RED-FISH	1.096	COD	0.4	1.1	
3M	MAY	>400	COD	2.750	RED-FISH	5.4	10.8	
3M	MAY	>400	RED-FISH	0.937	G. HALIBUT	5.4	10.8	
3M	MAY	>400	RED-FISH	0.937	WITCH F.	2.9	7.6	
3M	JUN.	<400	COD	1.317	WOLFFISH	1.0	1.2	
3M	JUL.	<400	COD	1.629	WOLFFISH	0.8	1.1	

TABLE IV - A (Cont.)

DIVISION	MONTH	DEPTH	C.P.U.E.		MAIN BY-CATCH		MEAN BY-CATCH (%)	
			TARGET	SPECIES (ton/hour)	SPICES	MAIN SPECIES	TOTAL	TOTAL
3M	JAN.	>400	RED-FISH	0.459	G. HALIBUT	16.3	41.5	
3M	FEB.	>400	COD	0.191	RED-FISH	21.3	65.0	
3M	FEB.	TOTAL	RED-FISH	0.264	G. HALIBUT	22.1	65.0	
3M	FEB.	>400	RED-FISH	0.266	G. HALIBUT	31.1	62.9	
3M	FEB.		AM. PLAICE	0.210	G. HALIBUT	31.3	63.9	
3M	FEB.		G. HALIBUT	0.272	RED-FISH	28.0	66.4	
3M	FEB.		WITCH F.	0.200	AM. PLAICE	20.5	57.5	
3M	FEB.		SKATE	0.548	G. HALIBUT	32.5	62.7	
3M	MAR.	>400	COD	0.288	G. HALIBUT	13.5	48.0	
3M	MAR.	>400	RED-FISH	0.444	G. HALIBUT	26.6	62.3	
3M	MAR.		G. HALIBUT	0.602	AM. PLAICE	18.5	48.2	
3M	MAR.		G. HALIBUT	0.180	WITCH F.	18.3	48.2	
3M	APR.	>400	COD	0.180	WITCH F.	6.3	18.4	
3M	APR.		G. HALIBUT	0.326	RED-FISH	16.0	54.4	
3M	MAY	<400	COD	0.602	AM. PLAICE	8.8	15.6	
3M	MAY		G. HALIBUT	0.376	WITCH F.	15.6	38.9	
3M	JUN.		G. HALIBUT	0.377	SKATE	30.0	53.3	
3M	JUN.		SKATE	0.518	G. HALIBUT	26.3	47.8	
3M	JUL.	>400	RED-FISH	0.303	G. HALIBUT	33.3	50.0	
3M	JUL.		G. HALIBUT	0.375	ROUGHHEAD G.	11.1	29.4	
					SKATE	9.4	29.4	
3M	AUG.		G. HALIBUT	0.368	ROUGHHEAD G.	9.0	20.6	
3M	MAY		RED-FISH	0.824	WITCH F.	15.6	22.2	
3M	MAY		G. HALIBUT	0.176	WITCH F.	35.7	48.3	
3M	MAY		WITCH F.	0.145	G. HALIBUT	42.3	56.9	

TABLE IV - B : Portuguese gillnet fishery (from two GNS vessels sampled) :
directed effort cpue and by-catch by month and division, for 1992.

DIVISION	MONTH	TARGET SPECIES	C.P.U.E (kg/net/day)	MAIN BY-CATCH SPECIES	MEAN BY-CATCH (%)	TOTAL
3M	MAY	COD	0.6	RED-FISH	54.9	59.9
3M	JUN.	COD	1.8	RED-FISH	28.5	61.0
3M	JUL.	COD	1.5	WITCH F.	14.0	42.6
3M	MAY	COD	15.8	AM. PLAICE	5.2	8.1
3M	JUN.	COD	5.9	AM. PLAICE	6.6	11.8
3M	JUN.	G. HALIBUT	1.6	AM. PLAICE	9.7	19.4
				SKATE	9.7	19.4
3M	JUL.	COD	4.7	AM. PLAICE	2.5	6.8
3M	JUL.	RED HAKE	7.6	COD	11.9	33.2
3O	AUG.	RED HAKE	4.0	MONKFISH	8.5	24.0

(1) sum number of nets per fishing day.

TABLE V-A: Portuguese red-fish trawl fishery (from 2 stern trawlers): mean by-catch (%) of cod, above and below the 400m depth line by month and division, for 1992.

DIVISION	DEPTH / MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	MEAN(*)
3L	> 400				16.6	0.0			4.2
	< 400					49.6			49.6
3M	> 400			0.2	0.4	0.5			0.4
3N	> 400	1.0	10.4	8.1				0.0	7.5
OVERALL MEAN -									3.5

Note (*) weighted by the number of fishing days in each month.

TABLE V-B: Portuguese greenland halibut trawl fishery (from 2 stern trawlers): mean by-catch (%) of cod, by month and division, for 1992.

DIVISION / MONTH	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	MEAN(*)
3L		11.1		0.3	0.0	12.5		2.0
3N	8.1	4.8	4.2	3.7	0.0	0.2	0.0	1.6
3O				0.6				0.6
OVERALL MEAN -								1.6

Note (*) weighted by the number of fishing days in each month.

TABLE VI: Portuguese stern trawl fisheries (from 2 vessels sampled):
C.P.U.E. (ton/h), mean weight (kg) in the catch, sex ratio
and C.P.U.E. in number for males, females and total, by month
and division, for 1992.

DIVISION	TARGET SPECIES	MONTH	C.P.U.E. (ton/hour)	MEAN WEIGHT (kg)	SEX RATIO	C.P.U.E. (number/hour)		
						males	females	total
3L	COD	MAR.	1.799	0.629				2860
3L	COD	APR.	1.129	0.547				2064
3L	COD	MAY	0.518	0.638				812
3L	RED-FISH	APR.	0.553	0.398	0.514	713	676	1389
3L	RED-FISH	MAY	0.238	0.385	0.540	334	284	618
3L	AM. PLAICE	FEB.	0.460	0.385	0.645	770	425	1195
3L	AM. PLAICE	APR.	0.192	0.461	0.268	111	305	416
3L	G. HALIBUT	FEB.	0.279	0.683	0.357	146	263	408
3L	G. HALIBUT	MAR.	0.314	0.683	0.357	164	296	460
3L	G. HALIBUT	MAY	0.226	0.627	0.431	155	205	360
3L	G. HALIBUT	JUN.	0.333	0.728	0.356	163	294	457
3L	G. HALIBUT	JUL.	0.209	0.728	0.356	102	185	287
3N	COD	MAR.	0.209	0.448				467
3N	COD	JUN.	1.317	0.360				3658
3N	COD	JUL.	1.629	0.393				4145
3N	RED-FISH	MAR.	1.193	0.404	0.574	1694	1259	2953
3N	RED-FISH	APR.	1.096	0.462	0.496	1176	1197	2372
3N	RED-FISH	MAY	0.937	0.407	0.534	1229	1074	2302
3N	COD	FEB.	0.191	1.052				182
3N	COD	MAR.	0.288	0.725				397
3N	COD	APR.	0.180	0.365				493
3N	COD	MAY	0.602	0.637				945
3N	RED-FISH	JAN.	0.459	0.328	0.614	859	540	1399
3N	RED-FISH	FEB.	0.264	0.328	0.614	494	311	805
3N	RED-FISH	MAR.	0.444	0.441	0.623	627	380	1007
3N	RED-FISH	JUL.	0.303	0.581	0.556	290	231	522
3N	AM. PLAICE	FEB.	0.210	0.412	0.664	339	171	510
3N	G. HALIBUT	FEB.	0.272	0.788	0.225	78	268	345
3N	G. HALIBUT	MAR.	0.602	0.788	0.225	172	592	764
3N	G. HALIBUT	APR.	0.326	0.788	0.225	93	321	414
3N	G. HALIBUT	MAY	0.376	1.156	0.205	67	259	325
3N	G. HALIBUT	JUN.	0.377	0.744	0.215	109	398	507
3N	G. HALIBUT	JUL.	0.375	0.923	0.312	127	280	406
3N	G. HALIBUT	AUG.	0.368	0.699	0.289	152	374	526
3N	WITCH F.	FEB.	0.200	0.852	0.249	58	176	235

TABLE VII-A: COD, 1992: cpue in number at age per hour, for the portuguese stern trawl fishery.

DIVISION	TARGET SPECIES	MONTH	AGE										
			2	3	4	5	6	7	8	9	10	11	12
3L	COD	MAR.	12.8	651.4	956.2	897.7	284.5	47.8	8.3	0.1	1.0	0.1	0.0
3L	COD	APR.	50.3	726.5	659.4	441.0	133.1	41.2	6.5	1.4	3.4	0.7	0.4
3L	COD	MAY	4.2	224.8	266.2	206.8	78.3	25.4	4.1	0.3	1.3	0.3	0.1
3N	COD	MAR.	165.9	187.4	82.2	28.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
3N	COD	JUN.	1981.1	1090.9	437.9	103.4	35.3	7.7	2.0	0.0	0.0	0.0	0.0
3N	COD	JUL.	1990.8	1342.1	595.5	195.8	17.9	1.7	1.2	0.0	0.0	0.0	0.0
3N	COD	FEB.	0.3	26.8	50.9	50.1	40.8	10.1	0.6	1.4	0.5	0.0	0.0
3N	COD	MAR.	2.1	135.0	141.0	74.5	35.1	7.2	0.1	0.8	0.8	0.0	0.0
3N	COD	APR.	5.8	384.6	87.4	15.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0
3N	COD	MAY	21.1	669.3	115.6	34.8	50.9	36.6	6.0	3.4	6.5	0.0	0.0

TABLE VII- B: RED-FISH, DIVISION 3M, 1992: cpue in number at age per hour, for the portuguese stern trawl fishery.

DIVISION		TARGET	SEX	MONTH												AGE												23	24	25+
		SPECIES		5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25+						
3M	RED-FISH	MALE	MAR.	1.3	37.4	109.1	484.0	450.0	269.6	131.8	74.8	51.2	29.8	21.5	20.8	8.3	6.2	0.5	4.3	0.1	0.0	0.0	0.0	2.4						
			APR.	4.5	91.6	105.4	226.2	196.9	132.4	87.0	53.7	58.3	57.0	36.9	48.7	26.3	19.4	2.9	7.5	1.4	3.0	0.0	0.0	6.4						
			MAY	3.7	59.2	82.2	329.8	248.3	157.4	119.7	78.2	62.0	28.7	23.2	19.2	6.5	5.8	0.1	2.0	0.0	0.0	0.0	0.0	0.6						
3M	RED-FISH	FEMALE	MAR.	0.7	28.9	72.4	211.1	257.8	180.6	119.6	74.0	46.0	62.6	52.2	37.3	30.7	19.4	20.5	17.8	7.8	4.2	0.0	0.9	4.1						
			APR.	4.7	87.0	95.3	118.5	155.0	115.9	85.3	86.2	58.4	88.8	75.0	52.9	47.1	28.5	30.6	26.5	15.0	6.1	0.0	4.2	15.6						
			MAY	2.2	79.9	72.4	133.4	210.3	126.6	76.9	79.2	52.6	77.7	53.3	39.1	20.8	15.9	11.6	11.0	3.8	1.9	0.0	0.9	4.0						

TABLE VII - C: AMERICAN PLAICE, 1992: cpue in number at age per hour, for the portuguese stern trawl fishery.

DIVISION	TARGET SPECIES	SEX	MONTH	AGE												17	18+
				4	5	6	7	8	9	10	11	12	13	14	15	16	17
3L	AM. PLAICE	MALE	FEB.	2.9	35.3	108.7	105.3	145.2	95.4	27.4	53.6	33.1	43.1	76.0	18.8	15.4	7.8
3L	AM. PLAICE	MALE	APR.	0.0	8.9	24.2	19.2	19.3	7.5	2.2	4.4	3.9	6.4	9.1	1.6	1.7	1.9
3L	AM. PLAICE	FEMALE	FEB.	0.0	7.7	32.0	68.5	38.9	33.9	42.2	25.1	32.8	22.6	46.7	22.6	20.5	4.9
3L	AM. PLAICE	FEMALE	APR.	0.0	9.5	32.6	61.4	22.1	25.1	27.5	11.0	10.7	11.9	21.0	15.1	13.9	3.8
3M	AM. PLAICE	MALE	FEB.	5.9	12.7	81.7	113.3	76.9	20.3	16.0	9.0	2.7	0.0	0.0	0.0	0.0	0.0
3M	AM. PLAICE	FEMALE	FEB.	0.0	3.8	24.3	77.6	29.1	19.2	11.2	2.5	3.4	0.0	0.0	0.0	0.0	0.0

TABLE VIII-A: COD DIV.3L, 1992: length composition of the trawl catches.

LENGTH GROUP	MAR. = 1st Q.	APRIL	MAY	2nd QUARTER	TOTAL	LENGTH GROUP
24	0.0	8.4	0.0	6.8	6.1	24
27	13.5	60.6	15.6	52.0	47.9	27
30	83.9	159.4	100.9	148.3	141.3	30
33	114.3	156.0	164.3	157.6	152.9	33
36	170.3	161.9	176.4	164.7	165.3	36
39	184.9	172.5	151.2	168.5	170.2	39
42	155.2	95.2	141.2	104.0	109.5	42
45	117.4	80.9	87.1	82.1	85.9	45
48	80.5	36.5	50.7	39.3	43.7	48
51	45.1	21.0	34.9	23.7	26.0	51
54	17.4	16.8	31.8	19.7	19.4	54
57	10.6	13.7	20.9	15.1	14.6	57
60	2.2	7.4	14.2	8.7	8.0	60
63	4.6	3.5	6.0	4.0	4.1	63
66	0.0	3.5	2.0	3.2	2.9	66
69	0.1	0.7	0.7	0.7	0.6	69
72	0.1	0.6	0.0	0.5	0.5	72
75	0.0	0.2	0.9	0.3	0.3	75
78	0.1	0.6	0.0	0.5	0.4	78
81	0.0	0.3	0.5	0.3	0.3	81
84	0.0	0.1	0.4	0.2	0.2	84
87	0.0	0.0	0.0	0.0	0.0	87
90	0.0	0.1	0.0	0.0	0.0	90
93	0.0	0.1	0.0	0.1	0.1	93
96	0.0	0.0	0.02	0.005	0.004	96
TOTAL	1000	1000	1000	1000	1000	
No. SAMPLES	27	31	17	48	55	
SAMPLING WEIGHT(kg)	462	2810	1582	4392	4854	
No. F. MEASURED	602	4700	2469	7169	7771	
MEAN LENGTH(cm)	40.9	38.6	40.7	39.0	39.2	
MEAN WEIGHT (g)	629	547	638	564	571	
DEPTH RANGE (m)	430/880	370/825	313/911	313/911	313/911	

TABLE VIII-B: COD DIV.3M, 1992: length composition of the trawl catches.

LENGTH GROUP	MAR. = 1st Q.	JUN. = 2nd Q.	JUL. = 3rd Q.	TOTAL	LENGTH GROUP
24	0.0	17.3	5.5	12.5	24
27	14.5	129.6	133.0	130.7	27
30	231.9	379.3	327.8	358.4	30
33	217.4	239.0	185.7	217.6	33
36	188.4	109.2	121.8	114.4	36
39	159.4	53.9	71.6	61.2	39
42	87.0	19.4	78.5	43.2	42
45	87.0	10.7	39.0	22.1	45
48	0.0	10.4	10.9	10.6	48
51	0.0	9.8	8.2	9.1	51
54	14.5	8.8	8.9	8.9	54
57	0.0	2.5	7.9	4.7	57
60	0.0	3.9	0.0	2.3	60
63	0.0	2.2	0.8	1.6	63
66	0.0	1.4	0.0	0.9	66
69	0.0	0.9	0.0	0.5	69
72	0.0	0.8	0.0	0.5	72
75	0.0	0.2	0.0	0.1	75
78	0.0	0.3	0.0	0.2	78
81	0.0	0.2	0.6	0.3	81
84	0.0	0.3	0.0	0.2	84
TOTAL	1000	1000	1000	1000	
No. SAMPLES	1	9	7	17	
SAMPLING WEIGHT(kg)	32	795	482	1309	
No. F. MEASURED	69	1821	1023	2913	
MEAN LENGTH(cm)	36.9	33.8	34.9	34.2	
MEAN WEIGHT (g)	448	360	393	373	
DEPTH RANGE (m)	520/750	126/263	205/310	126/750	

TABLE VIII-C: COD DIV.3M, 1992: length composition of the trawl catches.

LENGTH GROUP	FEBRUARY	MARCH	APRIL	MAY	1st QUARTER	2nd QUARTER	TOTAL	LENGTH GROUP
24	0.0	0.0	0.0	10.7	0.0	10.0	5.2	24
27	0.0	3.5	75.0	53.0	1.8	54.4	28.9	27
30	25.4	63.0	225.0	221.2	45.0	221.4	135.8	30
33	46.5	144.7	325.0	319.4	97.6	319.8	212.0	33
36	62.8	129.3	200.0	182.2	97.4	183.3	141.7	36
39	92.1	132.8	125.0	47.9	113.3	52.7	82.1	39
42	124.6	190.5	25.0	14.1	158.9	14.8	84.7	42
45	119.7	135.4	25.0	12.8	127.9	13.5	69.0	45
48	158.9	58.0	0.0	9.5	106.4	8.9	56.2	48
51	112.6	60.7	0.0	9.5	85.6	8.9	46.1	51
54	77.9	15.6	0.0	29.1	45.5	27.2	36.1	54
57	73.8	41.9	0.0	5.4	57.2	5.0	30.3	57
60	50.7	4.9	0.0	23.7	26.8	22.2	24.5	60
63	34.0	1.3	0.0	19.0	17.0	17.8	17.4	63
66	18.4	5.6	0.0	9.5	11.8	8.9	10.3	66
69	0.0	5.6	0.0	4.7	2.9	4.4	3.7	69
72	1.7	7.0	0.0	4.7	4.5	4.4	4.4	72
75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	75
78	0.0	0.0	0.0	9.5	0.0	8.9	4.6	78
81	0.9	0.0	0.0	0.0	0.4	0.0	0.2	81
84	0.0	0.0	0.0	4.7	0.0	4.4	2.3	84
87	0.0	0.0	0.0	9.5	0.0	8.9	4.6	87
TOTAL	1000	1000	1000	1000	1000	1000	1000	
No. SAMPLES	7	6	1	4	13	5	18	
SAMPLING WEIGHT(kg)	383	374	13	206	757	219	976	
No. F. MEASURED	380	513	40	437	893	477	1370	
MEAN LENGTH(cm)	48.1	42.4	34.8	38.1	45.2	37.9	41.4	
MEAN WEIGHT (g)	1052	725	365	637	882	620	747	
DEPTH RANGE (m)	261/1330	440/1450	440/1344	185/1395	261/1450	185/1395	185/1450	

TABLE VIII-D: COD DIV.3M, 1992: length composition of the gillnet catches.

LENGTH GROUP	JUN.	JUL.	2nd Q.	3rd Q.	TOTAL	LENGTH GROUP
39	0.8	0.2	0.7	0.0	0.2	39
42	1.8	1.7	1.8	0.3	0.6	42
45	1.5	2.7	1.8	0.6	0.8	45
48	8.4	7.7	8.0	5.3	5.8	48
51	19.8	25.6	19.6	7.3	9.5	51
54	44.5	74.7	43.1	24.7	28.0	54
57	82.8	129.8	80.4	111.6	105.9	57
60	137.7	159.0	134.5	166.1	160.8	60
63	180.6	175.5	179.7	179.5	179.5	63
66	164.8	137.5	162.9	152.8	154.7	66
69	104.5	94.9	105.2	87.4	90.6	69
72	81.9	53.5	82.8	88.4	87.4	72
75	56.3	40.9	58.4	46.2	48.4	75
78	46.8	32.4	48.3	50.1	49.8	78
81	31.6	29.6	32.3	30.6	30.9	81
84	17.4	12.5	18.1	23.4	22.4	84
87	10.2	7.1	11.0	10.9	10.9	87
90	3.7	2.1	4.4	6.1	5.8	90
93	2.3	2.5	2.5	4.3	4.0	93
96	0.7	2.4	1.2	0.5	0.6	96
99	0.7	2.0	0.7	0.4	0.4	99
102	0.5	1.9	1.4	2.3	2.1	102
105	0.9	0.2	1.1	0.0	0.2	105
108	0.0	0.2	0.0	0.0	0.0	108
111	0.0	1.3	0.0	0.3	0.2	111
114	0.0	0.4	0.3	0.1	0.1	114
117	0.0	0.9	0.0	0.2	0.1	117
TOTAL	1000	1000	1000	1000	1000	
No. SAMPLES	15	20	18	24	42	
SAMPLING WEIGHT(kg)	7362	10397	7904	11762	19666	
No. F. MEASURED	2672	3930	2817	4351	7168	
MEAN LENGTH(cm)	66.9	65.5	67.2	67.3	67.2	
MEAN WEIGHT (g)	2771.1	2615.5	2809.1	2816.3	2815.0	
DEPTH RANGE (m)	124/351	126/270	124/576	126/378	124/576	

TABLE VIII-2: COD DIV.3N, 1992: length composition of the gillnet catches.

LENGTH GROUP	MAY	JUN.	JUL.	2nd QUARTER	3rd QUARTER	TOTAL	LENGTH GROUP
45	0.0	0.0	1.2	0.0	1.2	0.5	45
48	0.0	0.0	0.2	0.0	0.3	0.1	48
51	0.0	0.0	3.8	0.0	3.7	1.5	51
54	0.0	0.2	6.9	0.1	6.8	2.8	54
57	0.0	0.0	9.2	0.0	10.3	4.1	57
60	0.0	0.0	38.3	0.0	39.7	15.9	60
63	0.0	1.4	45.2	0.6	48.4	19.8	63
66	0.0	0.9	43.5	0.4	46.9	19.0	66
69	0.0	0.0	30.3	0.3	35.2	14.3	69
72	0.9	2.8	27.4	1.7	31.2	13.5	72
75	0.0	1.0	21.9	0.8	25.2	10.6	75
78	0.0	3.9	17.4	1.6	20.2	9.1	78
81	2.1	2.3	12.6	2.2	15.1	7.4	81
84	2.3	10.7	16.0	5.9	17.4	10.5	84
87	12.9	21.8	14.8	16.7	15.2	16.1	87
90	42.3	63.7	37.7	51.4	36.7	45.5	90
93	93.9	131.5	79.5	109.9	76.6	96.6	93
96	143.7	149.2	68.0	146.1	65.3	113.7	96
99	145.5	166.8	100.6	154.6	96.6	131.3	99
102	182.3	107.7	95.4	150.5	91.6	126.9	102
105	145.7	106.4	84.6	129.0	81.2	109.8	105
108	92.9	92.7	101.9	92.8	97.7	94.8	108
111	46.1	37.9	37.3	42.6	35.8	39.9	111
114	36.9	38.2	42.3	37.5	40.6	38.7	114
117	27.3	19.6	22.1	24.0	21.2	22.9	117
120	13.6	18.7	19.1	15.7	18.3	16.8	120
123	5.5	10.8	12.2	7.7	11.7	9.3	123
126	3.9	4.2	6.3	4.1	6.1	4.9	126
129	2.2	2.5	2.6	2.3	2.5	2.4	129
132	0.0	1.1	1.1	0.5	1.1	0.7	132
135	0.0	1.9	0.0	0.8	0.0	0.5	135
138	0.0	0.4	0.0	0.2	0.0	0.1	138
141	0.0	0.0	0.0	0.0	0.0	0.0	141
144	0.0	0.0	0.3	0.0	0.3	0.1	144
TOTAL	1000	1000	1000	1000	1000	1000	
No. SAMPLES	15	19	33	34	37	71	
SAMPLING WEIGHT(kg)	17487	20895	30100	38392	31263	69645	
No. F. MEASURED	1541	1952	3599	3493	3937	7430	
MEAN LENGTH(cm)	102.8	101.6	94.5	102.3	93.5	98.8	
MEAN WEIGHT (g)	10089	9789	8480	9961	8274	9285	
DEPTH RANGE (m)	60/66	54/65	60/396	54/66	60/396	54/396	

TABLE IX-A: RED-FISH (*S. mentella*), DIVISION 3L, 1992: length composition of the trawl catches.

	MAR. = 1st Q.		APRIL		MAY		JUNE		2nd QUARTER		TOTAL 1992		
LENGTH GROUP	M	F	M	F	M	F	M	F	M	F	M	F	LENGTH GROUP
16	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.5	0.0	0.5	0.0	16
17	1.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	17
18	3.7	3.3	2.3	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.2	0.2	18
19	9.2	4.6	3.8	4.7	0.0	0.0	0.0	0.0	1.7	2.0	2.1	2.2	19
20	19.2	10.5	8.1	5.3	2.0	1.2	0.0	0.0	4.6	2.9	5.4	3.3	20
21	29.4	22.3	17.5	9.6	5.9	5.9	0.0	0.0	10.7	7.3	11.7	8.1	21
22	55.6	33.5	12.6	15.5	17.4	7.9	0.0	0.0	14.8	11.0	17.0	12.2	22
23	39.8	23.9	22.4	23.6	14.0	18.1	3.4	0.0	17.4	20.0	18.6	20.2	23
24	33.7	19.9	57.1	44.4	23.6	21.0	3.4	0.0	37.6	30.6	37.4	30.0	24
25	41.5	41.2	61.6	50.0	31.6	45.6	6.8	0.0	44.0	46.2	43.9	46.0	25
26	56.2	27.4	74.8	66.9	74.0	33.9	6.8	3.4	72.5	47.4	71.7	46.3	26
27	38.3	28.2	50.4	53.5	104.9	56.2	6.8	3.4	78.4	53.5	76.3	52.2	27
28	38.9	15.8	34.5	31.1	51.3	37.4	13.4	6.8	42.9	33.8	42.7	32.9	28
29	34.2	21.2	35.5	34.5	35.7	53.8	24.6	27.1	35.3	44.7	35.2	43.5	29
30	24.3	17.8	16.3	24.5	21.4	45.2	59.6	12.7	20.3	35.3	20.5	34.4	30
31	15.7	9.0	13.3	12.6	39.4	35.4	52.6	54.4	28.4	26.0	27.7	25.1	31
32	10.2	12.6	2.9	16.1	32.7	12.9	58.9	63.1	20.5	15.7	19.9	15.5	32
33	19.7	16.3	4.1	7.3	25.6	20.9	59.0	48.8	17.2	15.8	17.3	15.8	33
34	20.7	13.1	10.6	6.8	10.7	15.2	32.5	65.0	11.2	12.9	11.7	12.9	34
35	24.4	19.9	10.0	9.7	17.0	9.1	45.6	70.3	14.7	11.0	15.2	11.5	35
36	12.8	11.5	6.0	2.7	8.3	12.8	64.7	34.9	6.9	9.0	9.1	9.2	36
37	12.0	14.6	8.5	7.5	7.2	5.3	21.0	29.4	8.1	6.9	8.3	7.3	37
38	8.6	17.4	10.4	4.7	4.9	1.7	6.5	37.5	7.3	4.0	7.4	4.7	38
39	5.1	8.6	10.7	6.8	3.6	5.1	16.7	19.6	7.0	6.2	6.9	6.4	39
40	10.6	11.8	19.5	6.9	3.7	3.4	2.7	22.5	10.5	5.4	10.5	5.8	40
41	7.5	4.9	12.7	9.0	2.7	3.4	6.6	0.0	7.2	5.7	7.2	5.7	41
42	6.7	0.4	6.4	6.1	1.0	4.5	6.6	2.7	3.5	5.1	3.7	4.9	42
43	2.7	5.3	0.8	10.5	0.6	3.2	0.0	0.0	0.6	6.3	0.7	6.2	43
44	0.0	2.7	0.7	5.6	0.0	0.0	0.0	0.0	0.3	2.5	0.3	2.5	44
45	0.0	0.0	0.0	7.5	0.0	0.0	0.0	0.0	0.0	3.3	0.0	3.1	45
46	0.0	0.0	0.0	1.4	0.0	0.6	0.0	0.0	0.0	0.9	0.0	0.8	46
47	0.0	0.0	0.0	0.8	0.0	0.3	0.0	0.0	0.0	0.5	0.0	0.5	47
48	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.4	48
49	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	49
TOTAL	581.8	418.2	513.5	486.5	540.1	459.9	498.3	501.7	527.4	472.6	530.2	469.8	
NO. SAMPLES	5		23		16		4		43		48		
SAMPLING WEIGHT(Kg)(M+F)	221		1000		513		178		1691		1912		
NO. F. MEASURED(M+F)	326	237	1163	1096	728	648	166	163	2057	1907	2383	2144	
MEAN LENGTH(CM)	28.2	29.3	28.7	29.3	29.0	29.5	33.4	34.5	29.0	29.6	28.9	29.5	
MEAN WEIGHT (g)	360	423	375	423	368	405	544	624	375	419	374	420	
MEAN WEIGHT(M+F)	387		398		385		584		396		396		
DEPTH RANGE (m)	425/860		380/825		313/911		680/860		313/911		313/911		

TABLE IX-B: RED-FISH (*S. mentella*), DIVISION 3M, 1992: length composition of the trawl catches.

LENGTH GROUP	MARCH = 1st Q.		APRIL		MAY		2nd QUARTER		TOTAL 1992		LENGTH GROUP
	M	F	M	F	M	F	M	F	M	F	
19	0.0	0.0	0.5	0.3	1.0	0.0	0.8	0.1	0.6	0.1	19
20	0.4	0.0	3.1	3.6	1.8	0.8	2.4	2.1	1.9	1.6	20
21	6.4	4.5	14.8	5.4	8.9	12.6	11.7	9.2	10.3	8.0	21
22	6.2	5.3	19.2	24.5	13.7	17.9	16.3	21.1	13.7	16.9	22
23	4.1	3.0	15.6	16.9	11.3	14.9	13.3	15.6	10.9	12.5	23
24	5.1	0.4	14.3	10.0	3.9	7.7	8.8	8.8	7.8	6.6	24
25	17.1	9.5	18.9	12.2	16.2	7.7	17.5	9.9	17.4	9.8	25
26	72.7	35.4	42.4	26.5	63.5	20.9	53.5	23.6	58.5	26.7	26
27	113.8	53.9	59.6	30.3	107.5	35.6	84.6	33.1	92.3	38.5	27
28	104.3	58.8	54.9	39.8	71.7	72.9	63.7	57.1	74.3	57.6	28
29	74.6	43.4	34.4	43.4	38.2	55.7	36.4	49.8	46.4	48.2	29
30	55.9	46.9	43.5	31.6	42.1	26.5	42.8	28.9	46.2	33.6	30
31	33.6	31.1	26.1	19.8	42.9	19.0	34.9	19.4	34.6	22.5	31
32	24.8	18.0	25.9	22.1	42.0	15.7	34.3	18.8	31.9	18.6	32
33	18.7	12.5	18.4	23.5	27.2	29.0	23.0	26.4	21.8	22.8	33
34	13.4	19.6	21.8	34.0	11.3	37.1	16.3	35.6	15.5	31.4	34
35	8.5	19.0	20.5	37.9	17.9	32.9	19.2	35.3	16.4	31.0	35
36	2.7	16.7	23.9	28.6	6.3	21.2	14.7	24.7	11.6	22.6	36
37	6.6	13.0	13.9	22.7	4.1	15.6	8.8	19.0	8.2	17.4	37
38	1.5	11.9	10.8	19.9	0.5	6.4	5.5	12.9	4.4	12.6	38
39	0.4	11.0	5.9	16.9	0.2	6.6	2.9	11.5	2.3	11.4	39
40	2.6	7.7	3.1	11.4	1.6	3.1	2.3	7.1	2.4	7.2	40
41	0.0	1.9	0.6	11.4	0.0	2.6	0.3	6.8	0.2	5.5	41
42	0.0	0.0	1.9	3.0	0.0	1.4	0.9	2.2	0.7	1.6	42
43	0.0	1.7	0.0	4.9	0.0	1.3	0.0	3.1	0.0	2.7	43
44	0.0	0.5	1.3	2.8	0.0	1.0	0.6	1.9	0.5	1.5	44
45	0.0	0.5	0.3	0.6	0.0	0.0	0.1	0.3	0.1	0.4	45
46	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	46
47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47
48	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.3	0.0	0.2	48
TOTAL	573.7	426.3	495.6	504.4	533.7	466.3	515.5	484.5	530.7	469.3	
No. SAMPLES		10		10		10		20		30	
SAMPLING WEIGHT(Kg)(M+F)		419		743		418		1161		1580	
No. F. MEASURED	524	454	788	822	579	529	1367	1351	1891	1805	
MEAN LENGTH(cm)	29.1	30.9	29.9	31.8	29.1	30.6	29.5	31.2	29.4	31.1	
MEAN WEIGHT (g)	360	462	406	518	366	453	384	485	377	480	
MEAN WEIGHT(M+F)		404		462		407		433		425	
DEPTH RANGE (m)		380/1000		504/857		470/950		470/950		380/1000	

TABLE IX-C: RED-FISH (*S. mentella*), DIVISION 3N, 1992: length composition of the trawl catches.

LENGTH GROUP	FEBRUARY		MARCH		MAY-2nd Q.		1st QUARTER		TOTAL 1992		LENGTH GROUP
	M	F	M	F	M	F	M	F	M	F	
17	0.7	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.6	0.0	17
18	8.1	2.5	0.0	0.0	0.0	0.0	6.5	2.0	6.3	1.9	18
19	21.8	11.3	0.0	0.0	0.0	0.0	17.6	9.1	17.0	8.8	19
20	39.5	17.4	9.2	5.5	0.0	0.0	33.7	15.1	32.6	14.6	20
21	39.5	27.6	8.6	3.7	0.0	0.0	33.5	23.0	32.4	22.2	21
22	46.0	31.2	14.1	10.4	0.0	0.0	39.8	27.2	38.5	26.3	22
23	47.4	40.6	26.4	17.9	0.0	0.0	43.4	36.2	41.9	35.0	23
24	60.4	38.3	48.1	24.0	0.0	0.0	58.1	35.5	56.1	34.3	24
25	42.5	28.0	44.4	29.6	0.0	2.5	42.9	28.3	41.4	27.4	25
26	39.3	25.4	35.3	16.6	10.0	0.0	38.6	23.7	37.6	22.9	26
27	27.5	19.9	25.6	18.4	7.3	2.5	27.2	18.0	26.5	17.5	27
28	34.4	19.8	39.4	21.9	13.8	30.5	35.4	20.2	34.6	20.6	28
29	31.2	22.2	76.0	39.2	46.8	44.0	39.8	25.5	40.1	26.1	29
30	34.3	19.2	51.1	30.1	69.3	43.5	37.6	21.3	38.6	22.0	30
31	27.6	12.2	89.8	30.3	72.6	37.0	39.6	15.7	40.7	16.5	31
32	16.0	10.4	19.8	21.7	58.6	46.8	16.8	12.6	18.2	13.7	32
33	10.5	3.7	1.2	8.2	45.1	23.8	8.7	4.5	9.9	5.2	33
34	14.7	8.1	16.3	1.2	32.5	32.3	15.1	6.7	15.6	7.6	34
35	11.0	7.8	12.8	18.7	45.1	30.8	11.4	9.9	12.5	10.6	35
36	11.3	14.2	32.7	22.2	47.1	34.1	15.4	15.8	16.5	16.4	36
37	15.2	6.2	14.0	30.3	24.1	38.9	14.9	10.8	15.3	11.8	37
38	12.5	7.8	23.3	5.4	24.3	23.8	14.6	7.3	14.9	7.9	38
39	11.6	6.4	11.9	3.0	26.6	17.1	11.6	5.7	12.1	6.1	39
40	5.1	2.6	7.4	9.3	12.0	17.1	5.5	3.9	5.8	4.3	40
41	1.7	1.1	10.0	9.3	11.5	9.5	3.3	2.7	3.6	2.9	41
42	2.9	0.9	1.8	8.2	9.5	7.0	2.7	2.3	2.9	2.5	42
43	0.8	0.0	3.7	0.0	0.0	2.5	1.4	0.0	1.3	0.1	43
44	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.6	44
45	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.3	45
46	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.3	46
TOTAL	613.8	386.2	623.0	377.0	556.2	443.8	615.5	384.5	613.6	386.4	
No. SAMPLES	10		3		3		13		16		
SAMPLING WEIGHT(Kg)(M+F)	443		134		236		577		813		
No. F. MEASURED(M+F)	637	425	202	131	236	188	839	556	1075	744	
MEAN LENGTH(cm)	27.2	27.2	30.1	30.9	33.7	34.0	27.8	27.9	28.0	28.1	
MEAN WEIGHT (g)	324	335	420	475	561	607	343	362	349	371	
MEAN WEIGHT(M+F)	328		441		581		350		358		
DEPTH RANGE (m)	261/1330		415/1450		185/1370		261/1450		185/1450		

TABLE X-A: GREENLAND HALIBUT (TURBOT), DIVISION 3L, 1992: length composition of the trawl catches.

LENGTH GROUP	APRIL			MAY			JUNE			2ND Q. - TOTAL		
	N	F	%	N	F	%	N	F	%	N	F	%
28	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32	1.0	3.7	33.2	70.3	0.0	0.0	5.0	13.6	31.2	32	31.2	32
34	43.1	60.9	41.1	23.6	2.5	6.0	44.2	77.3	76.7	34	76.7	36
36	55.3	73.1	144.5	111.4	21.0	44.2	46.3	51.4	55.6	38	51.4	40
38	82.6	73.7	41.1	56.8	47.3	63.4	107.0	51.1	86.5	40	51.1	42
40	28.8	101.4	48.9	58.8	63.4	107.0	135.1	40.8	87.2	42	40.8	44
42	22.6	73.7	37.1	45.0	52.6	125.4	125.4	31.4	75.4	44	31.4	46
44	29.9	48.4	19.8	37.2	43.4	65.5	65.5	27.6	42.8	46	27.6	48
46	22.6	42.9	15.9	19.8	41.3	43.8	35.2	51.2	51.2	48	35.2	50
48	52.6	63.6	9.9	53.1	52.3	38.8	18.6	29.6	29.6	50	18.6	52
50	11.0	56.2	17.9	7.9	22.8	11.1	6.0	25.8	25.8	52	6.0	54
52	7.3	3.7	7.9	51.1	3.6	11.1	3.2	5.6	5.6	54	3.2	56
54	0.0	0.0	7.9	13.9	0.0	0.0	3.9	4.5	4.5	56	3.9	58
56	0.0	0.0	6.0	6.0	2.5	3.6	1.0	11.6	11.6	58	1.0	60
58	0.0	41.6	0.0	6.0	0.0	0.0	0.0	0.0	0.0	60	0.0	62
60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62	0.0	64
62	0.0	0.0	0.0	2.0	0.0	3.6	0.0	2.3	2.3	64	0.0	66
64	0.0	0.0	0.0	2.0	0.0	3.6	0.0	1.5	1.5	66	0.0	68
66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	68	0.0	70
68	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	70	0.0	72
70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	72	0.0	74
72	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	74	0.0	76
TOTAL	355.7	643.3	431.2	558.8	356.3	643.7	386.6	613.4				

TABLE IX-D: RED-FISH (S. mentella), DIVISION 3N, 1992: length composition of the gillnet catches.

LENGTH GROUP	MAY			JUNE			2nd QUARTER			TOTAL 1992		
	N	F	M	N	F	M	N	F	M	N	F	M
23	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	23
24	0.0	0.0	0.0	0.0	1.4	0.0	0.0	1.3	0.0	0.0	1.3	24
25	2.0	0.0	0.0	11.9	3.2	0.0	11.2	3.0	0.0	11.1	3.0	25
26	1.0	0.0	23.4	18.5	21.7	17.1	21.7	17.1	21.6	21.6	17.0	26
27	1.0	4.0	47.1	48.0	43.6	44.7	43.6	44.7	43.5	43.5	44.4	27
28	7.0	4.0	32.3	71.7	30.4	66.6	30.4	66.6	30.4	66.2	66.2	28
29	6.9	10.0	21.1	47.6	20.0	44.7	20.0	44.7	20.1	44.6	44.6	29
30	5.1	7.1	22.7	50.4	21.4	47.2	21.4	47.2	21.4	47.0	47.0	30
31	14.1	5.0	17.4	34.9	17.2	32.6	17.2	32.6	17.3	32.4	32.4	31
32	11.9	20.8	12.7	36.0	12.7	34.8	12.7	34.8	13.0	35.0	35.0	32
33	14.9	10.0	16.3	38.1	16.2	36.0	16.2	36.0	16.2	35.9	35.9	33
34	15.0	19.9	16.0	47.7	15.9	45.7	15.9	45.7	16.2	45.9	45.9	34
35	21.6	23.9	9.2	42.6	10.1	41.2	10.1	41.2	10.1	41.6	41.6	35
36	51.1	35.8	9.7	45.0	12.8	44.3	12.8	44.3	12.8	44.7	44.7	36
37	40.6	65.9	11.9	49.8	14.0	51.0	14.0	51.0	14.0	51.2	51.2	37
38	39.3	79.8	8.9	50.1	11.2	52.3	11.2	52.3	11.2	52.0	52.0	38
39	35.4	114.0	5.4	47.6	7.6	52.5	7.6	52.5	7.6	52.4	52.4	39
40	14.8	102.3	1.0	41.8	2.1	46.3	2.1	46.3	2.1	46.2	46.2	40
41	3.0	83.7	0.3	23.9	0.5	28.4	0.5	28.4	0.5	28.3	28.3	41
42	2.0	56.1	0.0	15.8	0.1	18.8	0.1	18.8	0.1	18.8	18.8	42
43	1.0	35.8	0.0	7.6	0.1	9.7	0.1	9.7	0.1	9.7	9.7	43
44	0.0	20.6	0.0	5.8	0.0	6.9	0.0	6.9	0.0	6.9	6.9	44
45	0.0	9.7	0.0	2.9	0.0	3.4	0.0	3.4	0.0	3.4	3.4	45
46	0.0	1.9	0.0	0.7	0.0	0.8	0.0	0.8	0.0	0.8	0.8	46
47	0.0	0.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	1.0	47
48	0.0	0.9	0.0	0.7	0.0	0.7	0.0	0.7	0.0	0.7	0.7	48
TOTAL	287.7	712.3	267.3	732.7	268.8	731.2	268.3	730.7				
NO. SAMPLES		4		8		12		13				
SAMPLING WEIGHT (g)		615		1112		1727		1808				
NO. F. MEASURED		796		2132		2928		3078				
MEAN LENGTH (cm)	36.2	39.1	30.9	34.3	31.3	34.6	31.3	34.6				
MEAN WEIGHT (g)	687	908	437	632	457	652	457	653				
MEAN WEIGHT (N+1)		845		580		600		600				
DEPTH RANGE (m)		135/576		126/550		126/576		126/576				

TABLE X-B: GREENLAND HALIBUT (TURBOT), DIVISION 3N, 1992:
length composition of the trawl catches.

APRIL - TOTAL			
LENGTH GROUP	M	F	LENGTH GROUP
38	24.6	0.0	38
40	33.7	29.1	40
42	29.1	33.7	42
44	102.0	230.2	44
46	58.3	102.8	46
48	70.2	24.6	48
50	0.0	53.7	50
52	0.0	29.1	52
54	29.1	53.7	54
56	0.0	24.6	56
58	0.0	4.6	58
60	0.0	24.6	60
62	0.0	0.0	62
64	0.0	4.6	64
66	0.0	4.6	66
68	0.0	24.6	68
TOTAL	355.8	644.2	
No. SAMPLES		2	
SAMPLING WEIGHT(Kg)		54	
No. F. MEASURED	21	36	
MEAN LENGTH(CM)	46.1	49.3	
MEAN WEIGHT (g)	825	1079	
MEAN WEIGHT(M+F)		989	
DEPTH RANGE (m)		569/857	

TABLE I-D: GREENLAND HALIBUT (TURBOT), DIVISION 3N, 1992: length composition of the gillnet catches.

LENGTH GROUP	AUGUST		SEPTEMBER		OCT-4th Q		3rd QUARTER		TOTAL 1992		LENGTH GROUP
	M	F	M	F	M	F	M	F	M	F	
36	0.0	0.0	0.2	0.0	0.0	0.0	0.1	0.0	0.1	0.0	36
38	0.0	0.0	0.1	0.0	0.0	5.0	0.1	0.0	0.1	0.1	38
40	0.0	16.7	2.9	11.7	5.0	14.9	1.8	13.6	1.9	13.6	40
42	0.0	50.6	9.2	37.1	14.9	54.5	5.7	42.2	5.9	42.5	42
44	11.8	72.0	26.9	87.2	29.7	89.1	21.2	81.5	21.4	81.7	44
46	33.8	124.0	31.4	104.8	84.2	108.9	32.3	112.1	33.5	112.0	46
48	30.6	208.6	30.8	136.2	39.6	168.3	38.2	163.4	38.3	163.3	48
50	16.9	78.8	32.4	130.7	19.8	118.8	26.5	111.1	26.4	111.3	50
52	0.0	90.9	15.7	106.7	29.7	138.6	9.8	100.7	10.3	101.6	52
54	16.9	53.3	10.9	97.4	9.9	34.7	13.2	80.8	13.1	79.7	54
56	0.0	93.6	4.4	57.8	5.0	19.8	2.8	71.3	2.8	70.1	56
58	0.0	21.5	2.9	22.8	0.0	5.0	1.8	22.3	1.8	21.9	58
60	0.0	43.3	0.2	22.4	0.0	0.0	0.1	30.2	0.1	29.6	60
62	0.0	0.0	0.3	7.2	0.0	5.0	0.2	4.5	0.2	4.5	62
64	0.0	0.0	0.2	5.3	0.0	0.0	0.1	3.3	0.1	3.2	64
66	0.0	16.7	0.0	0.7	0.0	0.0	0.0	6.7	0.0	6.6	66
68	0.0	0.0	0.2	0.4	0.0	0.0	0.1	0.3	0.1	0.3	68
70	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.3	0.0	0.3	70
72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	72
74	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.8	0.0	0.7	74
76	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	76
78	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.5	0.0	0.5	78
80	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.1	80
82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	82
84	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.1	0.0	0.1	84
86	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	86
88	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	88
90	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.1	90
TOTAL	129.9	870.1	168.5	827.9	237.6	762.4	154.0	843.8	155.9	841.9	
No. SAMPLES	4		16		1		20		21		
SAMPLING WEIGHT(Kg)(M+F)	76		2837		202		2912		3114		
No. F. MEASURED	8	60	400	1893	48	154	408	1953	456	2107	
MEAN LENGTH(cm)	49.2	50.9	49.1	51.0	48.3	49.3	49.1	50.9	49.1	50.9	
MEAN WEIGHT (g)	1021	1165	1028	1166	975	1039	1026	1166	1024	1163	
MEAN WEIGHT(M+F)	1146		1143		1023		1144		1141		
DEPTH RANGE (m)	144/378		144/540		207/306		144/540		144/540		

TABLE XI-A: AMERICAN PLAICE, DIVISION 3L, 1992: length composition of the trawl catches.

LENGTH GROUP	FEB - 1st Q.			APRIL			MAY			2nd. QUARTER			TOTAL 1992		
	M	F	L	M	F	L	M	F	L	M	F	L	M	F	L
20	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	0.0	20
22	4.9	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	2.1	22
24	36.9	11.2	34.1	60.2	0.0	0.0	26.5	46.8	35.4	16.4	24	24	35.4	16.4	24
26	62.1	40.8	37.1	86.8	0.0	0.0	28.8	67.4	57.2	44.7	26	26	57.2	44.7	26
28	66.0	25.2	59.5	153.9	181.6	0.0	86.8	119.5	69.1	39.0	28	28	69.1	39.0	28
30	105.6	40.8	33.2	92.8	0.0	0.0	25.8	72.1	93.9	45.4	30	30	93.9	45.4	30
32	117.4	61.2	31.7	59.7	185.2	195.8	66.0	90.1	109.9	65.4	32	32	109.9	65.4	32
34	125.0	46.8	16.3	21.4	0.0	209.9	12.6	63.6	108.5	49.3	34	34	108.5	49.3	34
36	52.3	27.7	9.9	15.2	7.1	188.7	9.3	54.0	46.0	31.6	36	36	46.0	31.6	36
38	34.6	21.6	24.2	23.2	1.8	7.1	19.2	19.6	32.3	21.4	38	38	32.3	21.4	38
40	17.2	12.5	7.8	11.8	1.8	3.5	6.4	9.9	15.6	12.1	40	40	15.6	12.1	40
42	14.3	32.7	10.6	47.7	0.0	8.8	8.2	39.0	13.4	33.7	42	42	13.4	33.7	42
44	2.4	16.0	1.3	33.5	0.0	3.5	1.0	26.8	2.2	17.6	44	44	2.2	17.6	44
46	0.0	11.6	0.0	45.9	0.0	0.0	0.0	35.7	0.0	16.8	46	46	0.0	16.8	46
48	0.8	2.8	0.0	26.4	0.0	1.8	0.0	20.9	0.7	5.5	48	48	0.7	5.5	48
50	0.0	0.0	0.0	19.9	0.0	1.8	0.0	15.9	0.0	2.3	50	50	0.0	2.3	50
52	0.0	0.0	0.0	12.3	0.0	1.8	0.0	10.0	0.0	1.5	52	52	0.0	1.5	52
54	0.0	0.0	0.0	9.4	0.0	0.0	0.0	7.3	0.0	1.1	54	54	0.0	1.1	54
56	0.0	0.0	0.0	1.7	6.7	0.0	1.3	5.2	0.2	0.8	56	56	0.2	0.8	56
58	0.0	0.0	0.0	2.7	0.0	0.0	0.0	2.1	0.0	0.3	58	58	0.0	0.3	58
60	0.0	0.0	0.0	2.7	0.0	0.0	0.0	2.1	0.0	0.3	60	60	0.0	0.3	60
TOTAL	644.5	355.5	267.6	732.4	377.4	622.6	292.1	707.9	592.9	407.1					
No. SAMPLES	5			14		2		16		21					
SAMPLING WEIGHT (kg)	103			461		25		486		589					
No. F. MEASURED	168	93	315	731	10	47	325	778	493	871					
MEAN LENGTH (cm)	32.6	34.8	31.7	35.2	31.2	35.4	31.5	35.2	32.5	34.9					
MEAN WEIGHT (g)	352	445	334	507	296	433	323	493	350	457					
MEAN WEIGHT (M+F)	385			461		381		443		393					
DEPTH RANGE (m)	350/1025			380/719		314/859		314/859		314/1025					

TABLE XI-B: AMERICAN PLAICE, DIVISION 3M, 1992: length composition of the trawl catches.

LENGTH GROUP	APRIL			MAY			JUNE			2nd QUARTER-TOTAL		
	M	F	L	M	F	L	M	F	L	M	F	L
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32	142.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34	285.7	0.0	0.0	108.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36	142.9	0.0	0.0	87.0	87.0	16.7	33.3	33.3	33.3	41.8	50.3	36
38	285.7	142.9	130.4	16.7	66.7	14.2	108.8	40	40	40	40	40
40	0.0	0.0	0.0	43.5	65.2	0.0	133.3	0.0	0.0	14.2	108.8	40
42	0.0	0.0	0.0	21.7	0.0	16.7	50.0	0.0	0.0	18.0	32.8	42
44	0.0	0.0	0.0	0.0	108.7	0.0	100.0	0.0	0.0	0.0	101.2	44
46	0.0	0.0	0.0	0.0	108.7	0.0	116.7	0.0	0.0	0.0	112.1	46
48	0.0	0.0	0.0	0.0	87.0	0.0	133.3	0.0	0.0	0.0	115.9	48
50	0.0	0.0	0.0	0.0	43.5	0.0	116.7	0.0	0.0	0.0	90.7	50
52	0.0	0.0	0.0	0.0	21.7	0.0	50.0	0.0	0.0	0.0	39.9	52
54	0.0	0.0	0.0	0.0	0.0	0.0	16.7	0.0	0.0	0.0	10.9	54
56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	56
58	0.0	0.0	0.0	0.0	0.0	0.0	16.7	0.0	0.0	0.0	10.9	58
TOTAL	857.1	142.9	347.8	652.2	50.0	950.0	161.2	838.8				
No. SAMPLES	1			1		2						
SAMPLING WEIGHT (kg)	3			34		56						
No. F. MEASURED	6	1	16	30	3	57	25					
MEAN LENGTH (cm)	36.3	39.0	37.8	43.3	39.7	44.6	38.0					
MEAN WEIGHT (g)	499	617	564	940	661	1015	578					
MEAN WEIGHT (M+F)	515			809		997						
DEPTH RANGE (m)	565/740			850/923		195/263						

TABLE XI-C: AMERICAN PLAICE, DIVISION 3N, 1992: length composition of the trawl catches.

LENGTH GROUP	FEB. = 1st Q.		APRIL		MAY		2nd QUARTER		TOTAL 1992		LENGTH GROUP
	M	F	M	F	M	F	M	F	M	F	
18	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	0.0	18
20	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	20
22	22.4	5.9	0.0	0.0	0.0	0.0	0.0	0.0	21.1	5.6	22
24	41.9	19.1	0.0	0.0	0.0	0.0	0.0	0.0	39.4	18.0	24
26	54.7	28.5	0.0	0.0	0.0	1.0	0.0	0.3	51.4	26.9	26
28	80.2	45.9	125.0	0.0	0.0	0.0	83.1	0.0	80.4	43.2	28
30	72.7	40.0	208.3	125.0	17.3	269.3	144.3	173.4	76.9	47.9	30
32	68.3	22.4	125.0	83.3	1.0	183.8	83.4	117.0	69.2	27.9	32
34	114.6	42.0	83.3	41.7	0.0	133.8	55.4	72.5	111.1	43.8	34
36	68.3	26.5	41.7	83.3	2.9	121.3	28.7	96.1	65.9	30.6	36
38	50.1	20.7	0.0	0.0	9.6	109.8	3.2	36.8	47.3	21.7	38
40	30.5	17.4	83.3	0.0	11.6	35.6	59.3	11.9	32.2	17.1	40
42	36.7	20.2	0.0	0.0	0.0	29.9	0.0	10.0	34.5	19.6	42
44	14.4	15.8	0.0	0.0	0.0	31.8	0.0	10.6	13.6	15.5	44
46	4.7	16.5	0.0	0.0	0.0	22.2	0.0	7.4	4.5	16.0	46
48	0.0	10.1	0.0	0.0	0.0	9.6	0.0	3.2	0.0	9.7	48
50	0.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	50
52	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52
54	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54
56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	56
58	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.3	0.0	0.0	58
60	0.0	0.0	0.0	0.0	0.0	8.7	0.0	2.9	0.0	0.2	60
TOTAL	664.2	335.8	666.7	333.3	42.4	957.6	457.5	542.5	652.0	348.0	
No. SAMPLES		9		1		2		3		12	
SAMPLING WEIGHT(Kg)		307		7		105		111		418	
No. F. MEASURED	506	262	16	8	12	203	28	211	534	473	
MEAN LENGTH(CM)	33.4	34.9	33.1	33.5	36.0	35.7	33.2	34.8	33.3	34.9	
MEAN WEIGHT (g)	388	460	363	367	470	467	366	426	387	457	
MEAN WEIGHT(M+F)		412		364		467		399		412	
DEPTH RANGE (m)		261/1330		440/934		185/995		185/995		261/1330	

TABLE XI-D: AMERICAN PLAICE, DIVISION 3N, 1992: length composition of the gillnet catches.

LENGTH GROUP	JUNE		JULY		SEPTEMBER		2nd QUARTER		3rd QUARTER		TOTAL 1992		LENGTH GROUP
	M	F	M	F	M	F	M	F	M	F	M	F	
24	2.0	0.0	1.5	0.0	0.0	0.0	2.0	0.0	0.9	0.0	1.4	0.0	24
26	29.6	2.4	32.0	0.0	4.9	0.0	29.3	2.4	22.6	0.3	25.4	1.2	26
28	91.4	9.5	111.7	2.6	12.8	0.0	90.4	9.4	81.5	1.6	84.8	5.0	28
30	44.0	5.0	72.9	3.3	31.4	0.9	43.8	5.5	58.9	3.0	51.8	4.0	30
32	87.3	2.8	46.1	5.9	23.6	14.0	47.7	2.8	40.9	7.4	43.6	5.3	32
34	65.7	7.5	87.3	2.0	58.5	8.1	65.2	8.3	85.7	4.5	76.3	6.2	34
36	104.8	12.3	125.0	5.3	72.6	5.3	104.8	13.4	114.7	5.6	111.4	9.1	36
38	63.5	22.5	108.6	7.1	89.7	23.2	63.7	22.8	107.1	10.1	87.9	15.7	38
40	47.0	26.4	55.8	13.6	58.3	45.9	47.7	26.7	58.4	21.3	53.9	23.8	40
42	14.4	36.0	16.8	23.9	19.6	64.4	14.8	35.6	20.6	36.0	18.0	35.9	42
44	9.1	48.2	12.5	34.8	7.3	87.4	9.0	48.3	11.2	46.0	10.2	47.3	44
46	1.3	83.8	7.2	70.6	1.7	99.5	1.3	82.9	5.4	72.1	3.5	77.2	46
48	0.9	114.5	2.1	86.3	1.0	108.8	0.9	113.6	1.5	89.8	1.2	100.2	48
50	0.3	64.0	0.0	42.5	0.0	91.0	0.3	63.9	0.0	54.0	0.1	58.5	50
52	0.0	30.1	0.0	13.5	0.0	43.6	0.0	29.8	0.0	22.5	0.0	25.9	52
54	0.0	8.4	0.0	7.4	0.0	17.3	0.0	8.3	0.0	11.6	0.0	10.2	54
56	0.0	4.5	0.0	0.7	0.0	6.6	0.0	4.5	0.0	3.5	0.0	3.9	56
58	0.0	1.1	0.0	0.4	0.0	1.8	0.0	1.1	0.0	0.6	0.0	0.8	58
60	0.0	0.0	0.0	0.4	0.0	0.9	0.0	0.0	0.0	0.4	0.0	0.2	60
TOTAL	521.1	478.9	679.5	320.5	381.5	618.5	520.8	479.2	609.5	390.5	569.5	430.5	
No. SAMPLES		16		13		24		17		54		72	
SAMPLING WEIGHT(Kg)	330.7	810.5	441.1	529.8	196.9	779.8	340.3	822.5	781.8	1589.3	1138.8	2456.1	
No. F. MEASURED	784	747	1050	470	395	666	802	765	1753	1375	2588	2179	
MEAN LENGTH(CM)	34.8	46.3	35.1	46.8	37.2	46.7	34.9	46.2	35.6	46.8	35.3	46.5	
MEAN WEIGHT (g)	457	1123	469	1148	550	1145	458	1118	489	1153	477	1136	
MEAN WEIGHT(M+F)		776		687		918		774		748		761	
DEPTH RANGE (m)		124/550		126/270		144/540		124/550		126/540		124/550	

TABLE XI-E: AMERICAN PLAICE, DIVISION 3N, 1992: length composition of the gillnet catches.

LENGTH GROUP	MAY		JUNE		JULY - 3rd Q.		2nd QUARTER		TOTAL 1992		LENGTH GROUP
	M	F	M	F	M	F	M	F	M	F	
24	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.2	0.0	24
26	5.3	2.2	0.0	0.0	4.2	1.8	2.7	1.1	3.0	1.3	26
28	15.2	2.7	3.1	0.0	24.4	4.7	9.3	1.4	12.5	2.1	28
30	28.0	0.0	29.2	0.9	44.6	19.1	28.6	0.5	32.0	4.4	30
32	43.9	13.9	30.8	7.4	60.4	33.0	37.5	10.7	42.4	15.5	32
34	81.4	25.8	61.5	11.6	68.9	36.3	71.7	18.8	71.1	22.6	34
36	88.6	61.6	113.0	23.2	102.1	54.7	100.6	42.8	100.9	45.3	36
38	82.8	42.6	112.4	37.8	100.5	41.4	97.3	40.2	98.0	40.5	38
40	49.4	50.1	90.5	32.4	62.7	34.8	69.8	41.4	68.1	40.0	40
42	23.3	43.2	61.7	44.7	42.4	40.7	42.1	43.9	42.2	43.3	42
44	2.5	40.0	17.0	51.2	26.2	37.6	9.6	45.5	13.1	43.8	44
46	2.0	32.4	11.9	32.9	18.5	25.9	6.9	32.7	9.3	31.2	46
48	0.0	58.4	8.7	45.0	6.4	21.8	4.3	51.8	4.7	45.4	48
50	0.0	26.6	4.7	25.8	4.6	11.3	2.3	26.2	2.8	23.0	50
52	0.0	32.8	0.0	18.3	1.1	14.9	0.0	25.7	0.2	23.4	52
54	0.0	24.1	0.0	24.8	0.0	17.0	0.0	24.4	0.0	22.9	54
56	0.0	16.3	0.0	25.6	0.0	10.2	0.0	20.9	0.0	18.6	56
58	0.0	23.5	0.0	33.9	0.0	7.7	0.0	28.6	0.0	24.1	58
60	0.0	30.5	0.0	16.1	0.0	7.7	0.0	23.4	0.0	20.1	60
62	0.0	20.4	0.0	12.0	0.0	3.0	0.0	16.3	0.0	13.5	62
64	0.0	14.5	0.0	5.2	0.0	5.5	0.0	9.9	0.0	9.0	64
66	0.0	8.9	0.0	6.5	0.0	1.4	0.0	7.8	0.0	6.4	66
68	0.0	3.2	0.0	0.2	0.0	0.0	0.0	1.7	0.0	1.4	68
70	0.0	2.9	0.0	0.0	0.0	1.1	0.0	1.5	0.0	1.4	70
72	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.4	72
TOTAL	422.5	577.5	544.5	455.5	568.1	431.9	482.3	517.7	500.6	499.4	
No. SAMPLES		13		16		23		29		52	
SAMPLING WEIGHT(Kg)(M+F)		568.15		717.5		695		1285.7		1980.7	
No. F. MEASURED	277	371	494	410	633	503	771	781	1404	1284	
MEAN LENGTH(cm)	36.7	47.5	38.7	48.2	37.6	42.8	37.8	47.8	37.8	46.9	
MEAN WEIGHT (g)	490	1178	580	1191	541	855	540	1183	540	1123	
MEAN WEIGHT(M+F)		887		858		677		873		831	
DEPTH RANGE (m)		60/66		59/65		60/306		59/66		59/306	

TABLE XII: YELLOWTAIL FLOUNDER, DIVISION 3N, 1992: length composition of the gillnet catches.

LENGTH GROUP	MAY		JUNE		JULY-3rd Q		2nd QUARTER		TOTAL 1992		LENGTH GROUP
	M	F	M	F	M	F	M	F	M	F	
24	0.0	0.0	1.7	0.0	0.0	0.0	0.8	0.0	0.5	0.0	24
26	1.1	0.0	3.6	0.0	4.3	0.0	2.3	0.0	3.0	0.0	26
28	13.5	0.0	11.1	5.0	31.6	0.6	12.3	2.4	19.2	1.7	28
30	72.8	13.4	67.3	32.8	83.0	34.5	70.2	22.7	74.8	26.9	30
32	137.9	90.7	111.3	117.6	102.9	91.8	125.2	103.6	117.2	99.3	32
34	53.1	164.6	100.0	162.5	78.0	153.0	75.5	163.6	76.4	159.8	34
36	50.9	121.1	65.1	115.5	45.3	126.7	57.7	118.4	53.2	121.4	36
38	27.8	52.0	22.1	49.9	23.3	75.1	25.1	51.0	24.4	59.6	38
40	34.7	67.8	10.0	52.2	11.3	45.3	22.9	60.3	18.7	55.0	40
42	15.9	31.0	10.3	24.2	8.4	32.8	13.2	27.7	11.5	29.5	42
44	2.9	27.8	5.1	8.5	1.2	28.8	4.0	18.6	3.0	22.3	44
46	0.0	14.5	4.0	5.2	0.0	8.5	2.3	10.1	1.5	9.5	46
48	0.0	4.8	3.5	10.9	0.0	8.7	1.7	7.7	1.1	8.1	48
50	0.0	1.7	0.0	0.0	0.0	4.4	0.0	0.9	0.0	2.1	50
52	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.2	52
TOTAL	410.5	589.5	415.8	584.2	389.4	610.6	413.0	587.0	404.6	595.4	
No. SAMPLES		12		16		21		28		49	
SAMPLING WEIGHT(Kg)(M+F)		159.4		229.2		545.5		388.62		934.12	
No. F. MEASURED	145	188	198	301	506	717	343	489	849	1206	
MEAN LENGTH(cm)	34.8	37.4	34.8	36.4	33.9	37.2	34.8	36.9	34.5	37.0	
MEAN WEIGHT (g)	784	1005	786	918	711	994	785	964	759	975	
MEAN WEIGHT(M+F)		914		863		884		890		888	
DEPTH RANGE (m)		64/66		59/65		60/62		59/66		59/66	

TABLE XIII-A: WITCH FLOUNDER, DIVISION 3L, 1992: length composition of the trawl catches.

APRIL			JUNE		2nd Q. = TOTAL		
LENGTH GROUP	M	F	M	F	M	F	LENGTH GROUP
36	0.0	0.0	0.0	50.0	0.0	31.6	36
38	3.6	0.0	6.0	26.5	5.1	16.7	38
40	3.6	0.0	6.0	21.0	5.1	13.3	40
42	21.3	0.0	50.0	85.5	39.4	54.0	42
44	45.3	7.1	26.5	35.5	33.5	25.1	44
46	87.1	10.7	12.0	229.6	39.7	148.9	46
48	84.9	51.8	53.0	97.6	64.8	80.7	48
50	104.9	102.9	26.5	88.5	55.4	93.8	50
52	71.7	80.0	23.5	53.0	41.3	63.0	52
54	43.5	58.4	0.0	76.5	16.0	69.8	54
56	20.0	67.9	23.5	6.0	22.2	28.8	56
58	19.3	66.5	0.0	3.0	7.1	26.4	58
60	7.1	31.8	0.0	0.0	2.6	11.7	60
62	3.6	3.6	0.0	0.0	1.3	1.3	62
64	0.0	3.6	0.0	0.0	0.0	1.3	64
TOTAL	515.9	484.1	227.1	772.9	333.6	666.4	
No. SAMPLES		9		2		11	
SAMPLING WEIGHT(Kg)		184		74		258	
No. F. MEASURED	91	77	21	73	112	150	
MEAN LENGTH(cm)	50.4	54.2	48.1	47.4	49.4	49.2	
MEAN WEIGHT (g)	1001	1286	862	822	941	946	
MEAN WEIGHT(M+F)		1139		831		945	
DEPTH RANGE (m)		380/719		717/839		380/839	

TABLE XIII-B: WITCH FLOUNDER, DIVISION 3M, 1992: length composition of the trawl catches.

APRIL			MAY		2nd Q. = TOTAL		
LENGTH GROUP	M	F	M	F	M	F	LENGTH GROUP
32	0.0	0.0	5.6	0.0	5.5	0.0	32
34	37.0	0.0	0.0	0.0	1.0	0.0	34
36	74.1	0.0	53.9	40.3	54.4	39.3	36
38	222.2	37.0	200.7	37.0	201.2	37.0	38
40	74.1	0.0	68.4	97.5	68.6	94.9	40
42	148.1	37.0	57.2	91.9	59.6	90.4	42
44	0.0	74.1	117.7	103.1	114.5	102.4	44
46	0.0	37.0	60.5	5.6	58.9	6.5	46
48	0.0	111.1	0.0	20.2	0.0	22.6	48
50	37.0	74.1	0.0	0.0	1.0	2.0	50
52	37.0	0.0	20.2	20.2	20.6	19.6	52
TOTAL	629.6	370.4	584.1	415.9	585.3	414.7	
No. SAMPLES		1		2		3	
SAMPLING WEIGHT(Kg)(M+F)		16		37		53	
No. F. MEASURED	17	10	47	30	64	40	
MEAN LENGTH(cm)	41.2	46.8	41.9	42.9	41.9	43.0	
MEAN WEIGHT (g)	510	770	530	573	529	578	
MEAN WEIGHT(M+F)		606		548		549	
DEPTH RANGE (m)		684/857		682/950		682/950	

TABLE XIII-C: WITCH FLOUNDER, DIVISION 3W, 1992:
length composition of the trawl catches.

JUNE = TOTAL			
LENGTH GROUP	M	F	LENGTH GROUP
34	0.0	0.6	34
36	15.8	13.1	36
38	5.3	45.0	38
40	18.1	96.3	40
42	27.0	96.6	42
44	27.8	107.2	44
46	31.5	121.7	46
48	39.3	68.4	48
50	15.9	43.6	50
52	7.5	35.0	52
54	11.6	49.7	54
56	19.7	36.8	56
58	15.3	22.6	58
60	1.8	7.6	60
62	10.2	3.3	62
64	0.0	2.2	64
66	2.6	0.0	66
TOTAL	249.2	750.8	
No. SAMPLES		5	
SAMPLING WEIGHT(Kg)(M+F)		421	
No. F. MEASURED	109	343	
MEAN LENGTH(cm)	48.7	47.1	
MEAN WEIGHT (g)	943	822	
MEAN WEIGHT(M+F)		852	
DEPTH RANGE (m)		689/964	

TABLE XIII-D: WITCH FLOUNDER, DIVISION 3W, 1992: length composition of the gillnet catches.

JUNE = 2nd Q. JULY AUGUST SEPTEMBER OCT. = 4th Q. 3rd QUARTER TOTAL 1992															
LENGTH GROUP	M	F	M	F	M	F	M	F	M	F	M	F	M	F	LENGTH GROUP
28	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30
32	0.0	0.0	0.0	0.0	5.7	0.0	1.6	0.0	0.0	0.0	1.2	0.0	1.2	0.0	32
34	0.0	0.0	0.0	0.0	0.9	0.0	5.0	0.0	0.0	0.0	0.6	0.2	0.6	0.2	34
36	29.4	0.0	0.0	0.0	24.8	0.0	56.0	0.0	0.0	0.0	10.0	0.0	10.9	0.0	36
38	39.9	0.0	62.5	0.0	112.5	13.8	136.6	1.6	0.0	0.0	79.1	2.8	77.2	2.7	38
40	189.9	11.0	62.5	62.5	130.9	38.2	110.0	47.9	0.0	0.0	80.1	56.5	85.1	94.3	40
42	94.8	31.0	0.0	312.5	83.2	38.9	108.7	64.3	200.0	200.0	26.2	256.5	29.5	227.0	42
44	74.3	189.5	0.0	62.5	63.6	74.5	70.8	57.2	0.0	200.0	18.9	64.3	21.5	70.2	44
46	54.4	29.4	62.5	0.0	62.3	46.4	62.9	27.5	0.0	0.0	62.5	11.5	62.1	12.3	46
48	65.4	33.0	125.0	0.0	44.6	48.0	56.3	23.1	0.0	0.0	103.1	11.4	101.3	12.4	48
50	0.9	11.0	0.0	125.0	22.9	52.6	37.4	39.5	0.0	200.0	7.9	103.0	8.0	98.8	50
52	0.0	11.0	0.0	62.5	8.9	44.6	6.6	40.5	200.0	0.0	2.3	57.0	2.3	54.8	52
54	0.0	31.0	0.0	0.0	1.7	36.7	4.1	24.9	0.0	0.0	0.7	9.4	0.7	10.4	54
56	0.0	58.3	0.0	0.0	7.4	19.1	0.0	7.3	0.0	0.0	1.4	4.4	1.4	6.9	56
58	0.0	0.0	0.0	0.0	0.0	16.2	0.9	4.8	0.0	0.0	0.0	3.6	0.0	3.4	58
60	0.0	0.0	0.0	62.5	0.0	0.0	0.0	5.5	0.0	0.0	0.0	45.1	0.0	43.0	60
62	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62
64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	64
66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66
68	0.0	29.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	68
TOTAL	565.4	434.6	312.5	607.5	569.3	430.7	655.9	344.1	400.0	600.0	394.2	605.0	402.1	597.9	
No. SAMPLES		4		1		17		20		1		38		43	
SAMPLING WEIGHT(Kg)	11.3	24.9	2.7	9.0	250.0	189.1	145.5	116.9	1.4	1.7	398.2	315.0	410.9	341.6	
No. F. MEASURED	22	24	5	11	431	238	274	155	2	3	710	404	734	431	
MEAN LENGTH(cm)	43.0	43.5	43.0	47.0	43.2	48.4	43.0	47.5	48.0	46.3	44.2	47.2	44.1	47.3	
MEAN WEIGHT (g)	577	1003	679	818	593	890	582	835	859	742	640	829	636	835	
MEAN WEIGHT(M+F)		762		775		721		669		789		755		755	
DEPTH RANGE (m)		126/216		126/270		144/370		144/340		270/306		126/540		126/540	

TABLE XIV-A: ROUGHHEAD GRENADE, DIVISION 3L,
1992: length composition of the trawl catches.

JUNE = TOTAL		
LENGTH GROUP		LENGTH GROUP
15	27.6	15
16	13.8	16
17	23.3	17
18	60.4	18
19	180.4	19
20	106.2	20
21	139.8	21
22	112.1	22
23	93.2	23
24	103.5	24
25	32.8	25
26	9.5	26
27	9.5	27
28	50.9	28
29	23.3	29
30	0.0	30
31	0.0	31
32	13.8	32
TOTAL 1000		
No. SAMPLES	2	
SAMPLING WEIGHT(Kg)	83	
No. F. MEASURED	84	
MEAN LENGTH(cm)	22.1	
MEAN WEIGHT(g)	1041	
DEPTH RANGE (m)	717/839	

TABLE XIV-B: ROUGHHEAD GRENADE, DIVISION 3M,
1992: length composition of the trawl catches.

MAY = TOTAL		
LENGTH GROUP		LENGTH GROUP
14	58.0	14
15	0.0	15
16	116.0	16
17	116.0	17
18	132.1	18
19	174.0	19
20	99.9	20
21	86.0	21
22	88.0	22
23	0.0	23
24	102.0	24
25	0.0	25
26	14.0	26
27	0.0	27
28	0.0	28
29	14.0	29
TOTAL 1000		
No. SAMPLES	2	
SAMPLING WEIGHT(Kg)	25.7	
No. F. MEASURED	35	
MEAN LENGTH(cm)	19.8	
MEAN WEIGHT(g)	764	
DEPTH RANGE (m)	759/950	

TABLE XIV-C: ROUGHHEAD GRENADE, DIVISION 3N, 1992: length composition of the trawl catches.

LENGTH GROUP	MAY	JUNE	JULY	AUGUST	2nd QUARTER	3rd QUARTER	TOTAL 1992	LENGTH GROUP
13	0.0	21.4	18.1	45.8	20.6	27.7	24.4	13
14	18.5	23.9	56.0	47.0	23.7	52.9	39.3	14
15	18.5	28.9	50.0	76.0	28.5	59.0	44.8	15
16	74.1	39.2	64.8	22.9	40.6	50.3	45.8	16
17	74.1	121.5	157.4	116.1	119.5	143.1	132.2	17
18	74.1	60.6	108.9	90.7	61.1	102.6	83.3	18
19	74.1	46.9	42.9	29.7	48.0	38.4	42.9	19
20	92.6	70.5	45.7	54.7	71.4	48.8	59.3	20
21	111.1	81.1	48.9	77.9	82.3	58.9	69.8	21
22	92.6	63.0	51.7	45.5	64.2	49.6	56.4	22
23	18.5	54.5	39.2	15.5	53.0	31.0	41.2	23
24	55.6	110.1	79.4	61.0	107.9	73.0	89.2	24
25	55.6	34.2	19.0	40.1	35.1	26.3	30.4	25
26	37.0	60.5	51.6	71.7	59.5	58.6	59.0	26
27	92.6	71.6	76.4	40.4	72.5	63.9	67.9	27
28	37.0	27.4	0.0	21.5	27.8	7.4	16.9	28
29	37.0	15.6	4.1	8.5	16.4	5.7	10.7	29
30	18.5	9.2	47.6	31.8	9.6	42.1	27.0	30
31	0.0	18.2	0.0	39.5	17.5	13.7	15.5	31
32	0.0	8.7	0.0	11.3	8.4	3.9	6.0	32
33	0.0	7.3	7.5	8.1	7.0	7.7	7.4	33
34	18.5	21.0	30.7	29.9	20.9	30.4	26.0	34
35	0.0	1.1	0.0	3.1	1.1	1.1	1.1	35
36	0.0	0.0	0.0	7.9	0.0	2.7	1.5	36
37	0.0	3.5	0.0	0.0	3.3	0.0	1.5	37
38	0.0	0.0	0.0	3.1	0.0	1.1	0.6	38
TOTAL 1000 1000 1000 1000 1000 1000 1000								
No. SAMPLES	1	14	5	10	15	15	30	
SAMPLING WEIGHT(Kg)	59	850	176	347	908	523	1431	
No. F. MEASURED	54	844	206	514	898	720	1618	
MEAN LENGTH(cm)	22.4	22.4	21.4	22.1	22.4	21.6	22.0	
MEAN WEIGHT(g)	1126	1162	1039	1180	1161	1088	1122	
DEPTH RANGE (m)	748/1370	689/964	381/1300	645/1212	689/1370	381/1300	381/1370	

TABLE IV: REDHART DIV.30, 1992: length composition of the gillnet catches.

AUG. - TOTAL			
LENGTH GROUP		LENGTH GROUP	
55	1.8	83	16.6
56	1.8	84	12.7
57	2.7	85	9.5
58	8.3	86	3.8
59	11.7	87	5.0
60	25.1	88	4.3
61	20.6	89	4.4
62	22.6	90	5.0
63	36.9	91	5.0
64	51.3	92	1.3
65	72.8	93	2.4
66	57.5	94	1.2
67	48.9	95	0.0
68	54.0	96	0.0
69	52.8	97	0.9
70	64.2	98	0.0
71	50.3	99	0.0
72	42.2	100	0.5
73	38.4	101	0.0
74	43.9	102	1.4
75	48.9	103	0.0
76	32.4	104	0.0
77	23.2	105	0.0
78	23.7	106	0.0
79	23.5	107	0.0
80	31.4	108	0.0
81	17.5	109	0.0
82	17.0	110	0.5
TOTAL		1000	
No. SAMPLES		11	
SAMPLING WEIGHT(kg)		4506	
No. F. MEASURED		1554	
DEPTH RANGE (m)		165/190	

TABLE XVI-A : COD, DIVISION 3L, 1992: age composition (%) and mean weight (Kg) at age in the trawl catches.

MAR. - 1st Q.			APRIL		MAY		2nd QUARTER		TOTAL 1992		
AGE	AGE COMP.	MEAN WEIGHT	AGE	MEAN WEIGHT	AGE	MEAN WEIGHT	AGE	MEAN WEIGHT	AGE	MEAN WEIGHT	AGE
2	4.5	0.179	24.4	0.170	5.2	0.179	20.7	0.171	19.0	0.171	2
3	227.8	0.333	352.0	0.298	276.8	0.326	337.6	0.302	325.8	0.304	3
4	334.3	0.505	319.5	0.473	327.8	0.485	321.1	0.476	322.5	0.479	4
5	313.9	0.763	213.7	0.731	254.7	0.751	221.5	0.735	231.4	0.739	5
6	99.5	1.114	64.5	1.196	96.4	1.258	70.6	1.212	73.7	1.198	6
7	16.7	1.605	19.9	1.852	31.3	1.758	22.1	1.827	21.5	1.808	7
8	2.9	1.729	3.1	2.103	5.0	2.041	3.5	2.086	3.4	2.054	8
9	0.0	3.794	0.7	3.207	0.4	3.576	0.6	3.255	0.6	3.259	9
10	0.4	2.519	1.7	3.185	1.7	3.434	1.7	3.232	1.5	3.215	10
11	0.0	3.721	0.4	4.551	0.3	4.391	0.3	4.523	0.3	4.512	11
12	0.0	4.399	0.2	5.377	0.2	4.318	0.2	5.188	0.2	5.180	12
13	0.0	0.000	0.0	4.935	0.1	5.824	0.0	5.285	0.0	5.285	13
TOTAL	1000		1000		1000		1000		1000		

No FISH AGED

699

TABLE XVI-B : COD, DIVISION 3N, 1992: age composition (%) and mean weight (Kg) at age in the trawl catches.

MAR. = 1st Q. JUN. = 2nd Q. JUL. = 3rd Q. TOTAL 1992											
AGE	AGE	MEAN	AGE	MEAN	AGE	MEAN	AGE	MEAN	AGE	MEAN	AGE
COMP.	WEIGHT		COMP.	WEIGHT	COMP.	WEIGHT	COMP.	WEIGHT	COMP.	WEIGHT	
2	355.6	0.316	541.5	0.262	480.3	0.265	516.7	0.263	2		
3	401.8	0.462	298.2	0.349	323.8	0.410	308.6	0.375	3		
4	176.1	0.554	119.7	0.504	143.7	0.570	129.4	0.533	4		
5	61.2	0.785	28.3	0.878	47.2	0.897	35.9	0.888	5		
6	5.3	0.812	9.6	1.922	4.3	1.286	7.5	1.774	6		
7	0.0	0.000	2.1	3.482	0.4	4.085	1.4	3.553	7		
8	0.0	0.000	0.6	4.328	0.3	4.935	0.4	4.482	8		
TOTAL	1000		1000		1000		1000				
No FISH AGED										361	

TABLE XVI-C : COD, DIVISION 3N, 1992: age composition (%) and mean weight (Kg) at age in the trawl catches.

FEBRUARY MARCH APRIL MAY 1st QUARTER 2nd QUARTER TOTAL 1992														
AGE	AGE	MEAN	AGE	MEAN	AGE	MEAN	AGE	MEAN	AGE	MEAN	AGE	MEAN	AGE	MEAN
COMP.	WEIGHT		COMP.	WEIGHT	COMP.	WEIGHT	COMP.	WEIGHT	COMP.	WEIGHT	COMP.	WEIGHT	COMP.	WEIGHT
2	1.7	0.326	5.3	0.326	11.8	0.326	22.3	0.231	3.5	0.326	21.7	0.234	12.9	0.246
3	147.6	0.392	339.8	0.369	779.8	0.321	708.2	0.316	247.7	0.376	712.7	0.316	487.1	0.331
4	280.4	0.741	354.9	0.658	177.2	0.500	122.3	0.499	319.2	0.693	125.7	0.499	219.6	0.636
5	276.0	1.075	187.6	0.943	30.4	0.691	36.8	1.165	230.0	1.018	36.4	1.140	130.3	1.036
6	224.6	1.513	88.2	1.421	0.8	0.674	53.9	2.116	153.6	1.486	50.5	2.114	100.5	1.649
7	55.6	2.013	18.2	2.420	0.0	0.000	38.8	3.046	36.2	2.120	36.3	3.046	36.3	2.598
8	3.4	1.981	0.3	1.981	0.0	0.000	6.3	3.795	1.8	1.981	5.9	3.795	3.9	3.393
9	7.8	2.699	2.1	2.646	0.0	0.000	3.6	2.646	4.8	2.841	3.3	2.646	4.1	2.759
10	2.6	2.750	2.1	3.179	0.0	0.000	6.9	5.164	2.4	2.949	6.4	5.164	4.5	4.596
11	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000
12	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000
13	0.3	3.448	1.4	3.448	0.0	0.000	0.9	3.448	0.9	3.448	0.9	3.448	0.9	3.448
TOTAL	1000		1000		1000		1000		1000		1000		1000	
No FISH AGED													366	

TABLE XVI-D : COD, DIVISION 3N, 1992: age composition (%) and mean weight (Kg) at age in the gillnet catches.

JUNE JULY 2nd QUARTER 3rd QUARTER TOTAL 1992											
AGE	AGE	MEAN	AGE	MEAN	AGE	MEAN	AGE	MEAN	AGE	MEAN	AGE
COMP.	WEIGHT		COMP.	WEIGHT	COMP.	WEIGHT	COMP.	WEIGHT	COMP.	WEIGHT	
3	4.0	1.069	0.4	0.606	3.9	1.072	0.1	0.606	1.1	1.163	3
4	49.6	1.295	33.8	1.272	48.6	1.292	15.7	1.345	25.6	1.349	4
5	48.4	1.700	108.3	1.490	47.1	1.702	56.2	1.565	55.0	1.650	5
6	304.6	2.239	393.8	2.175	300.2	2.246	384.8	2.215	339.5	2.216	6
7	477.0	2.915	399.6	2.950	477.9	2.927	457.3	3.040	468.3	2.947	7
8	105.3	4.419	48.8	4.899	108.3	4.434	69.7	4.925	94.9	4.614	8
9	6.2	6.874	7.8	7.197	7.3	7.024	12.5	6.849	10.4	6.998	9
10	2.0	9.020	3.2	9.307	2.9	9.135	1.5	8.286	2.2	8.470	10
11	2.2	7.645	2.9	10.733	2.8	8.302	1.7	9.814	2.1	8.765	11
12	0.5	6.137	1.4	13.722	0.5	6.137	0.6	11.899	0.7	9.683	12
13	0.2	9.972	0.0	0.000	0.5	9.972	0.0	0.000	0.2	9.972	13
TOTAL	1000		1000		1000		1000		1000		
No FISH AGED					390		319		709		

TABLE XVI-B : COD, DIVISION 3N, 1992: age composition (%) and mean weight (Kg) at age in the gillnet catches.

MAY			JUNE		JULY		2nd QUARTER		3rd QUARTER		TOTAL 1992		
AGE	AGE COMP.	MEAN WEIGHT	AGE	MEAN WEIGHT	AGE	MEAN WEIGHT	AGE	MEAN WEIGHT	AGE	MEAN WEIGHT	AGE	MEAN WEIGHT	AGE
4	0.0	0.000	0.0	0.000	5.4	1.337	0.0	0.000	5.5	1.348	1.7	1.324	4
5	0.0	0.000	0.0	0.000	26.6	2.020	0.0	0.000	28.5	2.032	10.9	2.009	5
6	0.3	5.170	3.3	3.552	139.7	2.655	1.6	3.757	152.1	2.680	59.9	2.660	6
7	1.1	5.122	6.3	4.157	78.8	3.511	3.3	4.342	88.6	3.525	37.7	3.549	7
8	10.2	7.183	15.6	6.674	27.9	6.007	12.5	6.913	29.6	5.916	20.7	6.322	8
9	92.1	8.512	105.7	8.008	51.7	7.207	97.9	8.281	51.2	7.154	80.6	7.848	9
10	360.6	9.096	369.2	8.743	130.5	8.693	364.3	8.944	126.5	8.662	258.0	8.879	10
11	293.9	10.022	267.8	9.731	239.2	9.954	282.8	9.905	229.9	9.946	266.0	9.906	11
12	121.7	11.077	104.6	11.053	136.7	10.612	114.4	11.068	131.2	10.611	125.9	10.814	12
13	39.7	13.420	39.7	13.663	64.7	12.568	39.7	13.524	62.1	12.568	49.5	12.952	13
14	30.3	13.342	30.1	13.375	45.5	13.425	30.2	13.356	43.6	13.425	35.7	13.316	14
15	26.4	13.988	28.3	14.081	18.5	14.696	27.2	14.029	17.8	14.696	23.4	14.322	15
16	13.7	15.141	16.8	15.933	14.9	14.329	15.0	15.518	14.3	14.329	15.8	14.823	16
17	9.3	13.452	11.2	14.882	13.1	17.811	10.1	14.126	12.5	17.811	11.4	15.791	17
18	0.3	19.029	1.0	22.006	5.2	18.077	0.6	21.126	4.9	18.077	2.0	18.759	18
19	0.3	20.450	0.6	22.060	0.8	17.677	0.4	21.365	0.8	17.677	0.5	19.472	19
20	0.0	0.000	0.0	0.000	0.8	17.677	0.0	0.000	0.8	17.677	0.2	17.677	20
TOTAL			1000		1000		1000		1000		1000		
No FISH AGED							460		471		931		

TABLE XVII-A : REDFISH (males), DIVISION 3N, 1992: age composition (%) and mean weight (Kg) at age in the trawl catches.

MAR. = 1st Q.			APRIL		MAY		2nd QUARTER		TOTAL 1992		
AGE	AGE COMP.	MEAN WEIGHT	AGE	MEAN WEIGHT	AGE	MEAN WEIGHT	AGE	MEAN WEIGHT	AGE	MEAN WEIGHT	AGE
5	0.4	0.138	1.9	0.129	1.6	0.122	1.7	0.126	1.4	0.127	5
6	12.7	0.161	38.6	0.162	25.7	0.162	31.9	0.162	26.9	0.162	6
7	33.9	0.239	44.4	0.217	35.7	0.229	39.9	0.223	38.3	0.226	7
8	163.9	0.289	95.4	0.284	143.3	0.288	120.4	0.286	131.8	0.287	8
9	152.4	0.343	83.0	0.346	107.9	0.340	96.8	0.342	110.7	0.343	9
10	91.3	0.375	55.8	0.385	68.4	0.384	62.4	0.385	69.9	0.381	10
11	44.6	0.432	36.7	0.447	52.0	0.445	44.7	0.446	44.7	0.442	11
12	25.3	0.497	26.9	0.511	34.0	0.500	30.6	0.504	29.2	0.503	12
13	17.3	0.533	24.6	0.569	26.9	0.536	25.8	0.551	23.6	0.547	13
14	10.1	0.605	24.0	0.665	12.5	0.596	18.0	0.640	15.9	0.634	14
15	7.3	0.647	15.6	0.671	10.1	0.619	12.7	0.649	11.3	0.649	15
16	7.0	0.667	20.5	0.706	8.3	0.636	14.2	0.684	12.3	0.682	16
17	2.8	0.706	11.1	0.731	3.7	0.675	7.2	0.716	6.1	0.714	17
18	2.1	0.676	8.2	0.708	2.5	0.658	5.2	0.695	4.4	0.693	18
19	0.2	0.803	1.2	0.803	0.1	0.803	0.6	0.803	0.5	0.803	19
20	1.5	0.861	3.2	0.827	0.8	0.862	1.9	0.835	1.8	0.841	20
21	0.0	0.866	0.6	0.866	0.0	0.866	0.3	0.866	0.2	0.866	21
22	0.0	0.000	1.3	1.231	0.0	0.000	0.6	1.231	0.5	1.231	22
23	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	23
24	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	24
25+	0.8	1.151	2.7	1.072	0.3	0.932	1.4	1.059	1.3	1.074	25+
TOTAL			573.7	495.6	533.7		515.5		530.7		
No FISH AGED									528		

TABLE XVII-B : REDFISH (females), DIVISION 3M, 1992: age composition (%) and mean weight (Kg) at age in the trawl catches.

MAR. = 1st Q.			APRIL		MAY		2nd QUARTER		TOTAL 1992		
AGE	AGE COMP.	MEAN WEIGHT	AGE COMP.	MEAN WEIGHT	AGE COMP.	MEAN WEIGHT	AGE COMP.	MEAN WEIGHT	AGE COMP.	MEAN WEIGHT	AGE
5	0.2	0.145	2.0	0.126	1.0	0.139	1.5	0.131	1.1	0.132	5
6	9.8	0.162	36.7	0.169	34.7	0.166	35.6	0.168	28.9	0.167	6
7	24.5	0.255	40.2	0.226	31.4	0.224	35.6	0.225	32.7	0.231	7
8	71.5	0.307	49.9	0.302	57.9	0.313	54.1	0.308	58.7	0.308	8
9	90.7	0.349	65.3	0.353	91.4	0.351	78.9	0.352	82.0	0.351	9
10	61.2	0.407	48.9	0.409	55.0	0.394	52.1	0.401	54.5	0.403	10
11	40.5	0.464	36.0	0.485	33.4	0.486	34.6	0.485	36.2	0.479	11
12	25.1	0.560	36.3	0.586	34.4	0.582	35.3	0.584	32.6	0.579	12
13	15.6	0.605	24.6	0.619	22.9	0.603	23.7	0.611	21.6	0.610	13
14	21.2	0.663	37.4	0.663	33.8	0.647	35.5	0.655	31.8	0.656	14
15	17.7	0.737	31.6	0.739	23.2	0.703	27.2	0.723	24.7	0.725	15
16	12.6	0.728	22.3	0.732	17.0	0.701	19.5	0.718	17.7	0.720	16
17	10.4	0.850	19.9	0.875	9.0	0.830	14.2	0.860	13.2	0.858	17
18	6.6	0.825	12.0	0.841	6.9	0.781	9.4	0.818	8.6	0.819	18
19	7.0	0.903	12.9	0.928	5.1	0.895	8.8	0.918	8.3	0.915	19
20	6.0	0.888	11.2	0.904	4.8	0.832	7.8	0.881	7.4	0.882	20
21	2.6	1.104	6.3	1.119	1.6	1.084	3.9	1.112	3.5	1.110	21
22	1.4	0.944	2.6	0.969	0.8	0.979	1.7	0.972	1.6	0.965	22
23	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	23
24	0.3	1.060	1.8	1.060	0.4	1.060	1.0	1.060	0.8	1.060	24
25+	1.4	1.202	6.6	1.234	1.7	1.202	4.0	1.227	3.3	1.224	25+
TOTAL			426.3		504.4		466.3		484.5		469.3

NO FISH AGED

541

TABLE XVII-C : REDFISH (males), DIVISION 3M, 1992: age composition (%) and mean weight (Kg) at age in the gillnet catches.

MAY			JUNE		2nd QUARTER		TOTAL 1992		
AGE	AGE COMP.	MEAN WEIGHT	AGE COMP.	MEAN WEIGHT	AGE COMP.	MEAN WEIGHT	AGE COMP.	MEAN WEIGHT	AGE
7	1.4	0.242	12.4	0.249	11.5	0.249	11.5	0.249	7
8	4.0	0.299	61.1	0.288	56.8	0.288	56.7	0.288	8
9	10.3	0.360	51.5	0.342	48.5	0.343	48.4	0.343	9
10	12.5	0.417	33.6	0.386	32.0	0.387	32.1	0.387	10
11	14.9	0.474	22.3	0.447	21.8	0.448	22.0	0.448	11
12	15.9	0.529	17.7	0.517	17.6	0.518	17.8	0.518	12
13	24.0	0.632	14.8	0.566	15.5	0.574	15.6	0.573	13
14	48.7	0.730	15.7	0.669	18.1	0.681	18.2	0.681	14
15	30.0	0.733	9.3	0.660	10.9	0.675	10.9	0.675	15
16	52.0	0.769	13.3	0.721	16.2	0.732	16.2	0.732	16
17	30.3	0.781	6.7	0.746	8.5	0.755	8.5	0.755	17
18	19.3	0.740	5.1	0.721	6.2	0.725	6.2	0.725	18
19	4.4	0.803	1.0	0.803	1.2	0.803	1.2	0.803	19
20	12.0	0.842	2.1	0.802	2.9	0.814	2.9	0.814	20
21	3.5	0.866	0.5	0.866	0.8	0.866	0.8	0.866	21
22	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	22
23	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	23
24	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	24
25+	4.5	0.996	0.2	0.932	0.5	0.975	0.5	0.975	25+
TOTAL			287.7		267.3		268.8		269.3

NO FISH AGED

528

TABLE XVII-D : REDFISH (females), DIVISION 3M, 1992: age composition (%) and mean weight (Kg) at age in the gillnet catches.

MAY			JUNE		2nd QUARTER		TOTAL 1992		
AGE	AGE COMP.	MEAN WEIGHT	AGE	MEAN WEIGHT	AGE	MEAN WEIGHT	AGE	MEAN WEIGHT	AGE
6	0.5	0.190	0.3	0.216	0.3	0.212	0.3	0.212	6
7	0.5	0.190	11.2	0.263	10.4	0.263	10.3	0.263	7
8	4.0	0.329	61.3	0.316	57.0	0.316	56.7	0.316	8
9	10.4	0.366	97.3	0.352	90.8	0.352	90.4	0.352	9
10	15.2	0.503	71.2	0.417	67.0	0.418	66.8	0.418	10
11	16.8	0.519	58.0	0.485	54.9	0.486	54.9	0.486	11
12	24.2	0.614	52.9	0.578	50.7	0.580	50.9	0.580	12
13	27.7	0.726	39.4	0.633	38.6	0.638	38.7	0.638	13
14	40.7	0.711	58.0	0.671	56.7	0.673	57.1	0.673	14
15	71.4	0.835	57.4	0.769	58.4	0.775	58.7	0.775	15
16	52.2	0.840	42.6	0.768	43.3	0.774	43.4	0.774	16
17	105.2	0.949	48.9	0.903	53.1	0.910	53.0	0.910	17
18	54.9	0.970	26.6	0.900	28.7	0.910	28.7	0.909	18
19	89.9	0.980	37.0	0.950	41.0	0.955	40.9	0.955	19
20	60.2	0.988	27.0	0.930	29.5	0.938	29.4	0.938	20
21	52.3	1.144	16.4	1.120	19.1	1.125	19.0	1.125	21
22	23.2	1.015	9.2	0.991	10.3	0.995	10.2	0.995	22
23	0.9	1.495	0.3	1.495	0.4	1.495	0.4	1.495	23
24	12.9	1.060	3.7	1.060	4.4	1.060	4.4	1.060	24
25+	49.1	1.196	14.1	1.238	16.7	1.228	16.7	1.228	25+
TOTAL		712.3	732.7		731.2		730.7		

NO FISH AGED

541

TABLE XVIII-A : AMERICAN PLAICE (males), DIVISION 3L, 1992: age composition (%) and mean weight (kg) at age in the trawl catches.

FEB.-1st Q.			APRIL		MAY		2nd QUARTER		TOTAL 1992		
AGE	AGE COMP.	MEAN WEIGHT	AGE	MEAN WEIGHT	AGE	MEAN WEIGHT	AGE	MEAN WEIGHT	AGE	MEAN WEIGHT	AGE
4	2.4	0.087	0.0	0.000	0.0	0.000	0.0	0.000	2.1	0.087	4
5	29.5	0.161	21.4	0.161	0.0	0.000	16.6	0.161	27.7	0.161	5
6	90.9	0.208	58.0	0.207	69.9	0.233	60.7	0.214	86.5	0.209	6
7	88.2	0.260	46.1	0.233	65.6	0.250	50.5	0.238	82.6	0.258	7
8	121.6	0.322	46.2	0.291	120.4	0.307	62.8	0.297	113.0	0.320	8
9	79.9	0.420	18.1	0.440	41.3	0.354	23.2	0.406	71.6	0.420	9
10	23.0	0.447	5.3	0.493	10.9	0.360	6.6	0.444	20.6	0.446	10
11	44.8	0.408	10.5	0.424	10.8	0.363	10.6	0.410	39.8	0.408	11
12	27.7	0.500	9.3	0.573	11.0	0.368	9.6	0.521	25.1	0.501	12
13	36.1	0.440	15.3	0.451	34.1	0.302	19.5	0.393	33.7	0.436	13
14	63.6	0.456	21.8	0.500	11.9	0.382	19.6	0.484	57.2	0.458	14
15	15.8	0.503	3.9	0.592	0.9	0.523	3.2	0.588	13.9	0.506	15
16	12.9	0.512	4.2	0.574	0.5	0.643	3.4	0.576	11.5	0.514	16
17	6.5	0.622	4.6	0.624	0.3	0.573	3.7	0.623	6.1	0.622	17
18	1.6	0.772	2.8	1.382	0.0	0.000	2.2	1.382	1.7	0.889	18
TOTAL		644.5	267.6		377.4		292.1		592.9		

NO FISH AGED

142

TABLE XVIII-B : AMERICAN PLAICE (females), DIVISION 3L, 1992: age composition (%) and mean weight (Kg) at age in the trawl catches.

FEB.-1st Q.			APRIL		MAY		2nd QUARTER		TOTAL 1992		
AGE	AGE COMP.	MEAN WEIGHT	AGE COMP.	MEAN WEIGHT	AGE COMP.	MEAN WEIGHT	AGE COMP.	MEAN WEIGHT	AGE COMP.	MEAN WEIGHT	AGE
5	6.4	0.163	22.9	0.196	0.0	0.000	17.8	0.196	8.1	0.174	5
6	26.8	0.230	78.3	0.222	11.0	0.413	63.3	0.229	32.1	0.230	6
7	57.4	0.299	147.4	0.239	98.9	0.390	136.6	0.264	69.0	0.289	7
8	32.6	0.325	53.1	0.269	77.0	0.417	58.4	0.313	36.4	0.322	8
9	28.3	0.302	60.2	0.244	41.9	0.421	56.1	0.273	32.4	0.294	9
10	35.3	0.392	66.1	0.322	54.7	0.414	63.5	0.339	39.5	0.379	10
11	21.0	0.384	26.5	0.389	64.2	0.446	34.9	0.413	23.1	0.390	11
12	27.5	0.475	25.6	0.557	89.5	0.411	39.9	0.484	29.3	0.477	12
13	18.9	0.662	28.5	0.794	34.1	0.486	29.7	0.715	20.5	0.674	13
14	39.1	0.500	50.3	0.622	97.4	0.427	60.8	0.553	42.2	0.511	14
15	18.9	0.699	36.3	0.895	23.1	0.491	33.3	0.833	21.0	0.730	15
16	17.1	0.697	33.5	0.934	23.1	0.504	31.2	0.863	19.2	0.736	16
17	4.1	0.746	9.1	1.048	1.2	0.775	7.4	1.037	4.6	0.815	17
18+	22.1	0.878	94.7	1.188	6.5	0.997	74.9	1.184	29.9	0.991	18+
TOTAL		355.5	732.4		622.6		707.9		407.1		

No FISH AGED

222

TABLE XVIII-C : AMERICAN PLAICE (males), DIVISION 3M, 1992: age composition (%) and mean weight (Kg) at age in the trawl catches.

APRIL			MAY		JUNE		2nd Q. = TOTAL 1992		
AGE	AGE COMP.	MEAN WEIGHT	AGE	MEAN WEIGHT	AGE	MEAN WEIGHT	AGE	MEAN WEIGHT	AGE
4	48.9	0.387	6.3	0.444	0.1	0.521	3.0	0.431	4
5	259.2	0.458	81.3	0.496	7.7	0.578	36.0	0.503	5
6	374.5	0.511	151.8	0.554	20.5	0.634	69.4	0.565	6
7	97.9	0.555	50.0	0.590	7.2	0.623	22.7	0.594	7
8	60.6	0.571	41.9	0.676	10.1	0.758	21.4	0.697	8
9	9.5	0.575	10.7	0.680	2.1	0.738	5.1	0.693	9
10	5.6	0.522	4.5	0.679	1.5	0.821	2.5	0.728	10
11	0.0	0.000	0.9	0.845	0.7	0.845	0.7	0.845	11
12	1.0	0.521	0.6	0.521	0.1	0.521	0.3	0.521	12
TOTAL		857.1	347.8		50.0		161.2		

No FISH AGED

605

TABLE XVIII-D : AMERICAN PLAICE (females), DIVISION 3M, 1992: age composition (%) and mean weight (Kg) at age in the trawl catches.

APRIL			MAY		JUNE		2nd Q. = TOTAL 1992		
AGE	AGE COMP.	MEAN WEIGHT	AGE	MEAN WEIGHT	AGE	MEAN WEIGHT	AGE	MEAN WEIGHT	AGE
4	2.6	0.617	2.3	0.617	61.4	0.344	41.1	0.350	4
5	33.2	0.617	70.7	0.567	76.1	0.490	73.6	0.515	5
6	99.5	0.617	233.4	0.693	262.1	0.737	250.0	0.723	6
7	2.6	0.617	56.9	0.969	65.0	0.956	61.3	0.960	7
8	5.1	0.617	118.2	1.127	156.5	1.144	141.4	1.139	8
9	0.0	0.000	95.3	1.280	162.4	1.342	137.7	1.328	9
10	0.0	0.000	44.6	1.278	74.9	1.333	63.7	1.321	10
11	0.0	0.000	21.9	1.337	46.1	1.477	37.4	1.450	11
12	0.0	0.000	7.1	1.430	24.9	1.618	18.7	1.595	12
13	0.0	0.000	1.7	1.654	20.5	2.206	14.0	2.185	13
TOTAL		142.9	652.2		950.0		838.8		

No FISH AGED

658

TABLE XVIII-E : AMERICAN PLAICE (males), DIVISION 3N, 1992: age composition (%) and mean weight (kg) at age in the trawl catches.

FEB. = 1st Q.			APRIL		MAY		2nd QUARTER		TOTAL 1992		
AGE	AGE COMP.	MEAN WEIGHT	AGE	MEAN WEIGHT	AGE	MEAN WEIGHT	AGE	MEAN WEIGHT	AGE	MEAN WEIGHT	AGE
4	11.6	0.115	0.0	0.000	0.0	0.000	0.0	0.000	10.9	0.115	4
5	24.9	0.165	0.0	0.000	0.0	0.000	0.0	0.000	23.4	0.165	5
6	160.4	0.245	201.4	0.279	7.1	0.287	136.3	0.279	159.0	0.247	6
7	222.3	0.334	280.9	0.326	15.3	0.371	191.9	0.327	229.5	0.334	7
8	150.9	0.471	129.2	0.452	9.5	0.587	89.1	0.457	147.2	0.471	8
9	39.8	0.610	38.5	0.643	8.2	0.623	28.4	0.641	39.1	0.611	9
10	31.4	0.786	16.7	0.668	2.3	0.668	11.9	0.668	30.3	0.784	10
11	17.7	0.835	0.0	0.000	0.0	0.000	0.0	0.000	16.6	0.835	11
12	5.2	0.772	0.0	0.000	0.0	0.000	0.0	0.000	4.9	0.772	12
TOTAL	664.2		666.7		42.4		457.5		652.0		

No FISH AGED

77

TABLE XVIII-F : AMERICAN PLAICE (females), DIVISION 3N, 1992: age composition (%) and mean weight (kg) at age in the trawl catches.

FEB. = 1st Q.			APRIL		MAY		2nd QUARTER		TOTAL 1992		
AGE	AGE COMP.	MEAN WEIGHT	AGE	MEAN WEIGHT	AGE	MEAN WEIGHT	AGE	MEAN WEIGHT	AGE	MEAN WEIGHT	AGE
5	7.5	0.109	0.0	0.000	0.0	0.000	0.0	0.000	7.1	0.109	5
6	47.6	0.237	6.4	0.345	14.1	0.345	9.0	0.345	45.3	0.238	6
7	152.3	0.347	230.3	0.362	568.8	0.384	343.7	0.374	163.5	0.351	7
8	57.1	0.497	78.8	0.356	221.8	0.438	126.7	0.404	61.2	0.485	8
9	37.8	0.753	17.9	0.489	94.2	0.666	43.4	0.618	38.1	0.744	9
10	22.0	0.922	0.0	0.000	35.4	0.808	11.8	0.808	21.4	0.918	10
11	4.9	0.980	0.0	0.000	8.3	1.092	2.8	1.092	4.8	0.984	11
12	6.7	1.148	0.0	0.000	6.4	1.148	2.1	1.148	6.5	1.148	12
13	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	13
14	0.0	0.000	0.0	0.000	8.7	2.235	2.9	2.235	0.2	2.235	14
TOTAL	335.8		333.3		957.6		542.5		348.0		

No FISH AGED

139

TABLE XVIII-G : AMERICAN PLAICE (males), DIVISION 3N, 1992: age composition (%) and mean weight (kg) at age in the gillnet catches.

JUNE			JULY		SEPTEMBER		2nd QUARTER		3rd QUARTER		TOTAL 1992		
AGE	AGE COMP.	MEAN WEIGHT	AGE	MEAN WEIGHT	AGE	MEAN WEIGHT	AGE	MEAN WEIGHT	AGE	MEAN WEIGHT	AGE	MEAN WEIGHT	AGE
3	0.0	0.000	1.9	0.189	0.3	0.189	0.0	0.000	1.3	0.189	1.0	0.189	3
4	144.7	0.257	129.8	0.259	28.7	0.319	143.5	0.257	97.9	0.266	109.5	0.260	4
5	138.3	0.445	144.6	0.333	60.0	0.376	138.2	0.446	121.1	0.343	131.1	0.382	5
6	101.9	0.512	182.0	0.509	119.5	0.540	102.0	0.512	171.8	0.517	160.3	0.519	6
7	39.2	0.499	56.4	0.550	39.7	0.565	39.4	0.499	54.5	0.553	44.3	0.547	7
8	36.1	0.627	48.0	0.671	40.4	0.675	36.3	0.627	48.1	0.670	39.8	0.664	8
9	12.4	0.674	27.8	0.622	21.5	0.638	12.6	0.675	27.4	0.626	18.8	0.640	9
10	14.5	0.680	22.2	0.714	17.5	0.706	14.6	0.680	21.8	0.709	16.7	0.711	10
11	26.2	0.740	1.3	0.978	0.8	0.978	26.5	0.740	1.2	0.978	8.9	0.769	11
12	2.6	1.133	19.7	0.656	14.4	0.658	2.6	1.133	18.3	0.651	11.2	0.697	12
13	4.4	0.845	41.0	0.700	35.3	0.695	4.6	0.845	41.1	0.699	24.6	0.714	13
14	0.0	0.000	1.3	1.047	0.5	1.017	0.0	0.000	1.0	1.041	0.6	1.038	14
15	0.6	1.124	2.5	1.085	0.8	1.055	0.6	1.124	1.9	1.079	1.4	1.085	15
16	0.0	0.000	1.9	0.725	2.0	0.725	0.0	0.000	2.0	0.725	1.2	0.725	16
TOTAL	521.1		679.5		381.5		520.8		609.5		569.5		

No FISH AGED

419

TABLE XVIII-H : AMERICAN PLAICE (females), DIVISION 3M, 1992: age composition (%) and mean weight (Kg) at age in the gillnet catches.

JUNE		JULY		SEPTEMBER		2nd QUARTER		3rd QUARTER		TOTAL 1992	
AGE	AGE COMP.	MEAN WEIGHT	AGE	MEAN WEIGHT	AGE	MEAN WEIGHT	AGE	MEAN WEIGHT	AGE	MEAN WEIGHT	AGE
4	14.0	0.246	11.3	0.334	17.5	0.394	14.3	0.247	12.7	0.359	4
5	14.9	0.518	7.6	0.507	17.1	0.545	15.6	0.513	10.1	0.516	5
6	94.8	0.730	36.1	0.795	100.7	0.795	96.2	0.727	52.4	0.791	6
7	20.4	0.903	6.3	0.807	18.3	0.795	20.6	0.900	9.3	0.803	7
8	34.8	1.226	19.6	0.931	50.1	0.926	34.6	1.225	27.4	0.926	8
9	16.6	1.143	17.1	1.148	25.6	1.130	16.5	1.139	18.3	1.142	9
10	12.8	1.279	4.3	1.199	8.8	1.253	12.8	1.279	5.3	1.235	10
11	58.5	1.343	13.1	1.308	23.4	1.342	58.1	1.344	15.4	1.327	11
12	26.7	1.224	22.8	1.259	35.4	1.278	26.6	1.224	25.1	1.270	12
13	175.8	1.311	170.8	1.269	287.9	1.294	174.3	1.311	195.2	1.285	13
14	2.5	1.921	2.5	1.749	7.0	1.733	2.5	1.921	4.0	1.746	14
15	1.5	2.038	3.1	1.840	8.5	1.854	1.5	2.038	5.3	1.856	15
16	0.6	2.089	0.8	1.980	3.2	1.977	0.6	2.089	1.6	1.958	16
17	2.2	1.994	2.1	1.610	5.1	1.671	2.2	1.994	3.0	1.658	17
18+	2.8	2.062	3.0	1.905	10.0	1.939	2.7	2.062	5.4	1.912	18+
TOTAL		478.9	320.5		618.5		479.2		390.5		430.5
No FISH AGED											524

TABLE XVIII-I : AMERICAN PLAICE (males), DIVISION 3M, 1992: age composition (%) and mean weight (Kg) at age in the gillnet catches.

MAY		JUNE		JULY = 3rd Q.		2nd QUARTER		TOTAL 1992	
AGE	AGE COMP.	MEAN WEIGHT	AGE	MEAN WEIGHT	AGE	MEAN WEIGHT	AGE	MEAN WEIGHT	AGE
4	1.0	0.233	0.2	0.233	2.1	0.211	0.6	0.233	0.9
5	3.6	0.199	0.2	0.233	3.6	0.207	1.9	0.201	2.3
6	49.8	0.336	37.3	0.363	66.4	0.323	43.7	0.347	48.5
7	111.2	0.396	98.0	0.414	128.6	0.385	104.7	0.404	109.8
8	93.6	0.502	116.1	0.534	109.1	0.513	104.6	0.519	105.6
9	144.2	0.584	226.6	0.628	192.7	0.621	184.6	0.610	186.3
10	13.6	0.720	33.5	0.766	27.8	0.798	23.3	0.752	24.3
11	3.4	0.774	12.1	0.876	13.9	0.911	7.7	0.853	9.0
12	1.6	0.868	10.1	0.974	12.6	1.011	5.8	0.959	7.2
13	0.3	0.886	6.9	1.107	7.2	1.067	3.5	1.097	4.3
14	0.2	1.011	1.0	1.011	1.5	1.011	0.6	1.011	0.8
15	0.0	0.000	0.0	0.000	0.0	0.000	0.0	0.000	0.0
16	0.0	0.000	1.4	1.148	1.1	1.148	0.7	1.148	0.8
17	0.2	1.011	1.0	1.011	1.5	1.011	0.6	1.011	0.9
TOTAL		422.5	544.5		568.1		482.3		500.6
No FISH AGED									261

TABLE XVIII-J : AMERICAN PLAICE (females), DIVISION 3M, 1992: age composition (%) and mean weight (Kg) at age in the gillnet catches.

MAY		JUNE		JULY = 3rd Q.		2nd QUARTER		TOTAL 1992	
AGE	AGE COMP.	MEAN WEIGHT	AGE	MEAN WEIGHT	AGE	MEAN WEIGHT	AGE	MEAN WEIGHT	AGE
5	2.4	0.225	0.3	0.345	2.9	0.259	1.3	0.237	1.7
6	21.2	0.439	12.0	0.484	37.8	0.384	16.7	0.455	21.2
7	72.2	0.481	36.7	0.494	94.7	0.434	54.8	0.486	63.3
8	88.1	0.625	60.6	0.676	79.2	0.605	74.6	0.645	75.6
9	72.9	0.835	67.1	0.845	57.0	0.789	70.0	0.840	67.2
10	45.4	1.012	40.3	0.994	31.3	0.934	42.9	1.004	40.4
11	68.1	1.092	65.2	1.064	44.1	1.014	66.7	1.079	61.9
12	52.6	1.416	46.9	1.390	27.2	1.360	49.8	1.404	45.0
13	32.0	1.517	30.2	1.531	16.7	1.461	31.1	1.524	28.0
14	20.6	1.623	19.1	1.649	10.3	1.581	19.9	1.635	17.8
15	10.0	1.895	11.1	1.874	4.7	1.830	10.6	1.884	9.3
16	28.2	2.285	25.0	2.183	7.8	2.152	26.6	2.238	22.6
17	26.8	2.297	21.0	2.188	8.5	2.121	23.9	2.250	20.6
18+	37.1	2.643	19.9	2.347	9.8	2.567	28.6	2.542	24.6
TOTAL		577.5	455.5		431.9		517.7		499.4
No FISH AGED									481

TABLE XIX-A : YELLOWTAIL FLOUNDER (males), DIVISION 3N, 1992: age composition (%) and mean weight (Kg) at age in the gillnet catches.

MAY			JUNE		JULY=3Q Q.		2nd QUARTER		TOTAL 1992		
AGE	AGE COMP.	MEAN WEIGHT	AGE COMP.	MEAN WEIGHT	AGE COMP.	MEAN WEIGHT	AGE COMP.	MEAN WEIGHT	AGE COMP.	MEAN WEIGHT	AGE
4	0.9	0.382	1.2	0.356	2.5	0.374	1.1	0.368	1.6	0.371	4
5	3.4	0.470	3.5	0.452	5.3	0.443	3.5	0.461	4.1	0.453	5
6	52.5	0.627	51.8	0.611	54.4	0.581	52.2	0.619	53.0	0.605	6
7	250.7	0.691	263.4	0.702	254.5	0.666	256.7	0.696	256.0	0.686	7
8	62.6	0.966	57.7	0.894	49.3	0.897	60.2	0.933	56.3	0.922	8
9	20.3	1.174	25.5	1.421	14.9	1.047	22.8	1.306	20.0	1.237	9
10	14.6	1.442	8.1	1.563	5.9	1.469	11.5	1.483	9.5	1.480	10
11	5.5	1.547	4.6	1.671	2.4	1.563	5.1	1.601	4.1	1.593	11
TOTAL		410.5	415.8		389.4		413.0		404.6		

No FISH AGED

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TABLE XIX-B : YELLOWTAIL FLOUNDER (females), DIVISION 3N, 1992: age composition (%) and mean weight (Kg) at age in the gillnet catches.

MAY			JUNE		JULY=3Q Q.		2nd QUARTER		TOTAL 1992		
AGE	AGE COMP.	MEAN WEIGHT	AGE	MEAN WEIGHT	AGE	MEAN WEIGHT	AGE	MEAN WEIGHT	AGE	MEAN WEIGHT	AGE
5	0.7	0.502	4.3	0.442	2.2	0.489	2.5	0.452	2.4	0.464	5
6	29.6	0.781	36.4	0.720	33.4	0.751	32.9	0.749	33.0	0.749	6
7	362.6	0.802	394.0	0.775	385.6	0.799	377.6	0.788	380.5	0.792	7
8	100.8	1.181	85.4	1.136	94.2	1.154	93.4	1.161	93.7	1.159	8
9	55.0	1.494	37.7	1.426	51.0	1.486	46.7	1.468	48.2	1.475	9
10	21.1	1.726	13.1	1.778	21.5	1.763	17.3	1.744	18.8	1.752	10
11	12.4	1.961	8.0	2.056	14.3	2.064	10.3	1.996	11.7	2.026	11
12	6.9	2.245	4.5	2.302	7.2	2.409	5.7	2.266	6.3	2.325	12
13	0.0	0.000	0.0	0.000	0.5	3.182	0.0	0.000	0.2	3.182	13
14	0.4	2.429	0.9	2.429	0.7	2.429	0.6	2.429	0.7	2.429	14
TOTAL		589.5	584.2		610.6		587.0		595.4		

No FISH AGED

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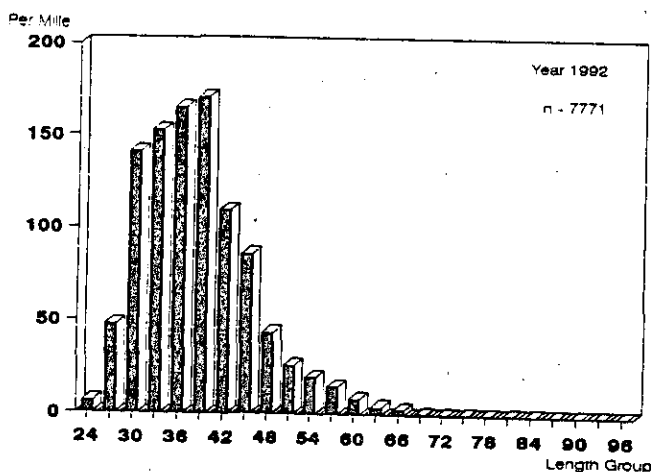


Fig. 1 - Annual length composition of Cod in Division 3L, trawl fishery in 1992.

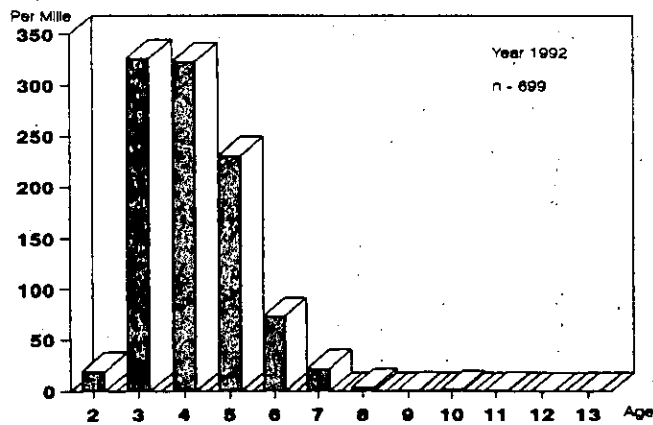


Fig. 2 - Annual age composition of Cod in Division 3L, trawl fishery in 1992.

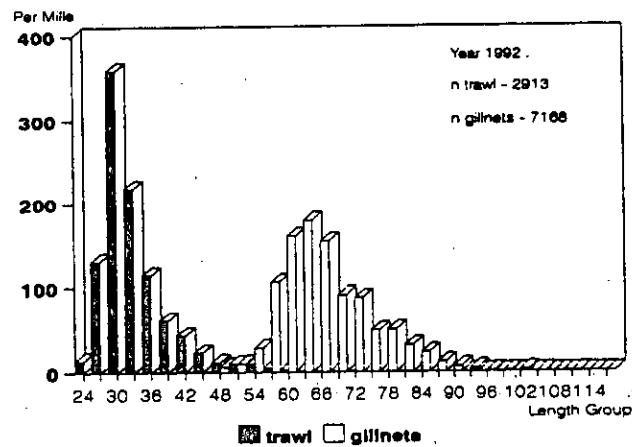


Fig. 3 - Annual length composition of Cod in Division 3M, trawl and gillnets fishery in 1992.

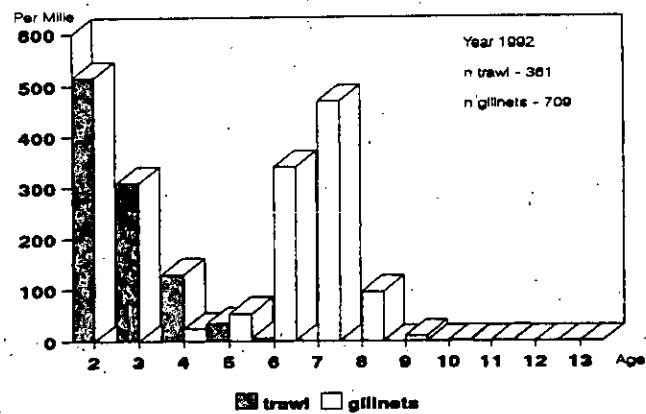


Fig. 4 - Annual age composition of Cod in Division 3M, trawl and gillnets fishery in 1992.

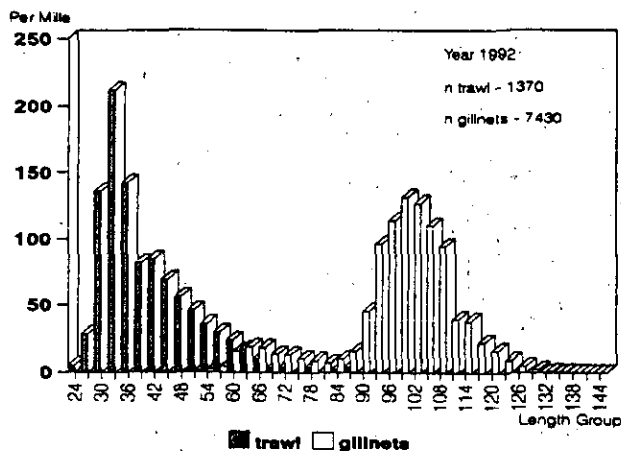


Fig. 5 - Annual length composition of Cod in Division 3N, trawl and gillnets fishery in 1992.

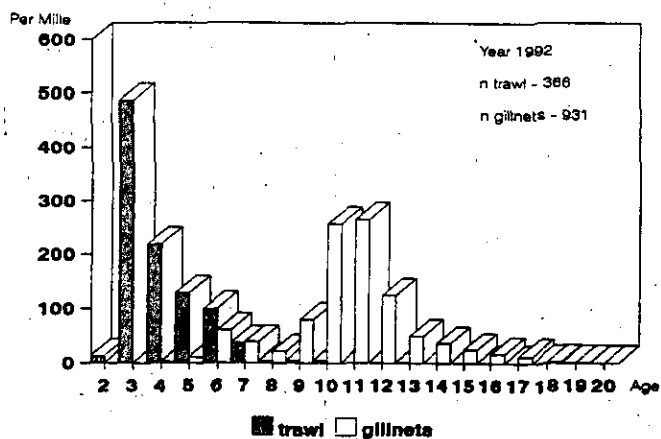


Fig. 6 - Annual age composition of Cod in Division 3N, trawl and gillnets fishery in 1992.

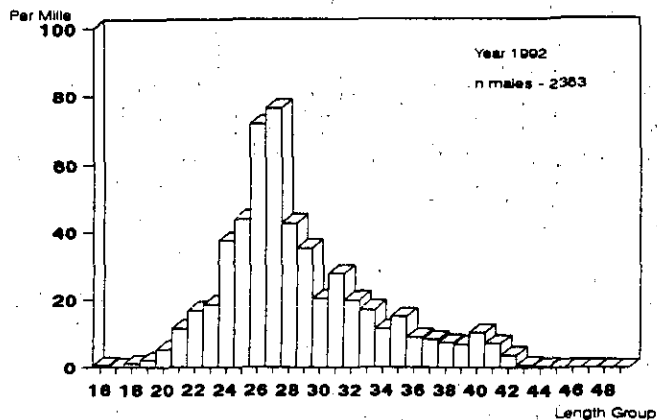


Fig. 7 - Annual length composition of Redfish, *S. mentella* (male) in Division 3L, trawl fishery in 1992.

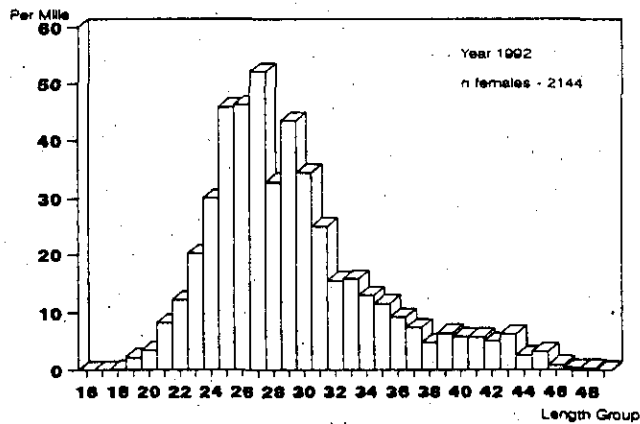


Fig. 8 - Annual length composition of Redfish, *S. mentella* (female) in Division 3L, trawl fishery in 1992.

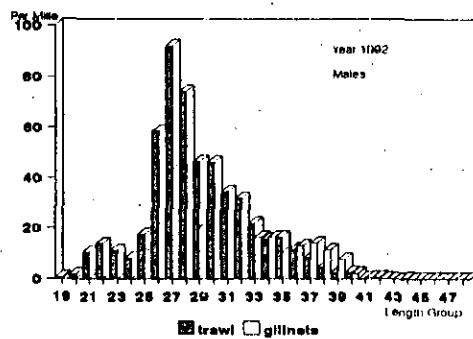


Fig. 9 - Annual length composition of Redfish, *S. mentella* (male) in Division 3M, trawl and gillnets fishery in 1992.

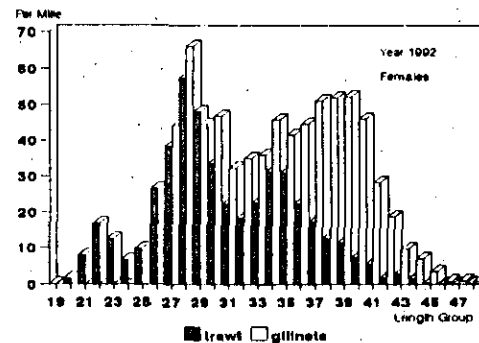


Fig. 10 - Annual length composition of Redfish, *S. mentella* (female) in Division 3M, trawl and gillnets fishery in 1992.

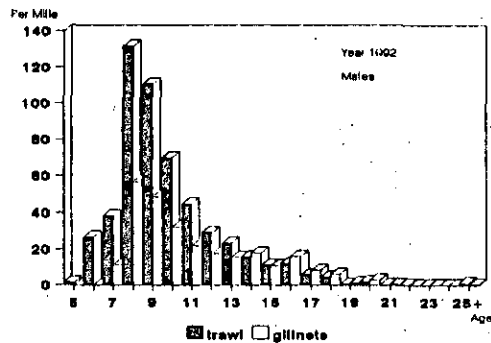


Fig. 11 - Annual age composition of Redfish, *S. mentella* (male) in Division 3M, trawl and gillnets fishery in 1992.

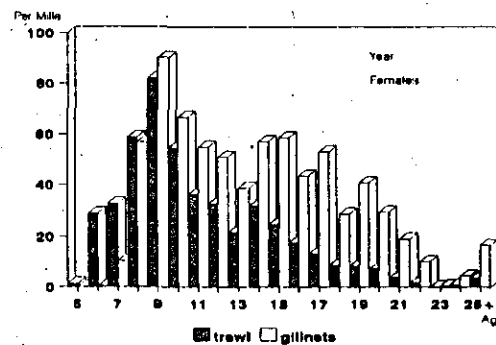


Fig. 12 - Annual age composition of Redfish, *S. mentella* (female) in Division 3M, trawl and gillnets fishery in 1992.

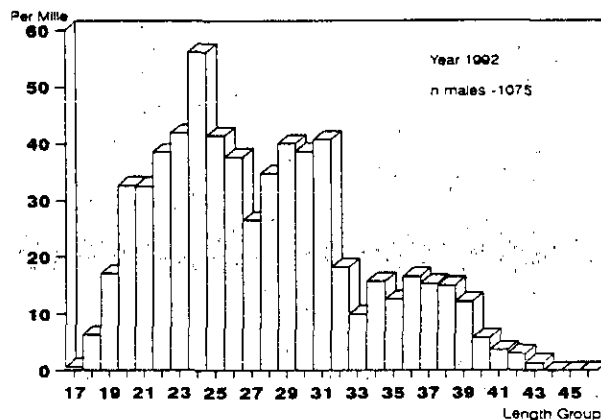


Fig. 13 - Annual length composition of Redfish, *S. mentella* (male) in Division 3N, trawl fishery in 1992.

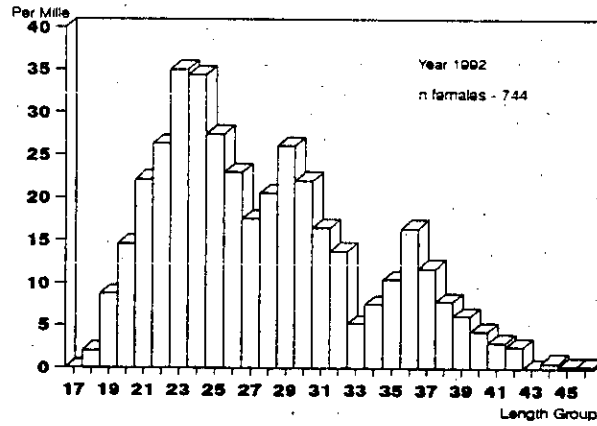


Fig. 14 - Annual length composition of Redfish, *S. mentella* (female) in Division 3N, trawl fishery in 1992.

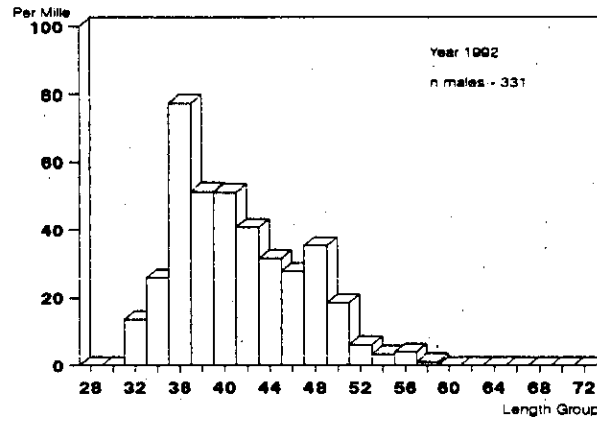


Fig. 15 - Annual length composition of Greenland halibut, (male) in Division 3L, trawl fishery in 1992.

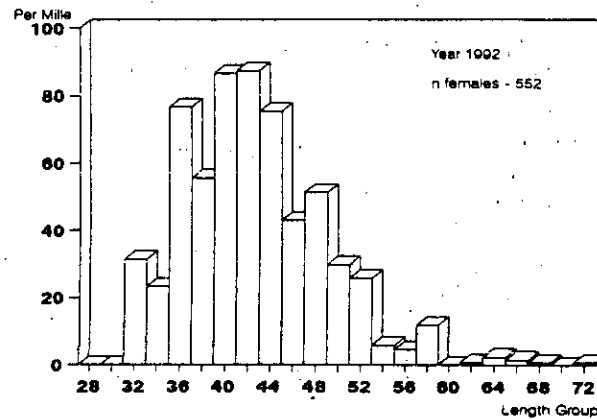


Fig. 16 - Annual length composition of Greenland halibut, (female) in Division 3L, trawl fishery in 1992.

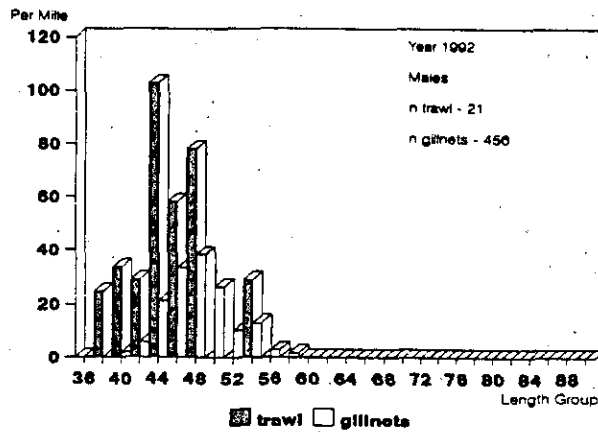


Fig. 17 - Annual length composition of Greenland halibut, (male) in Division 3M, trawl and gillnets fishery in 1992.

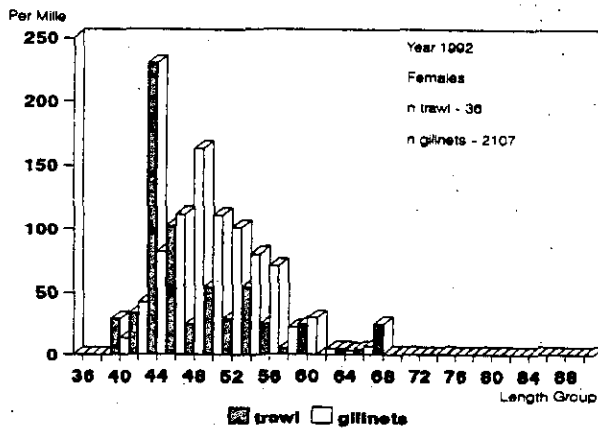


Fig. 18 - Annual length composition of Greenland halibut, (female) in Division 3M, trawl and gillnets fishery in 1992.

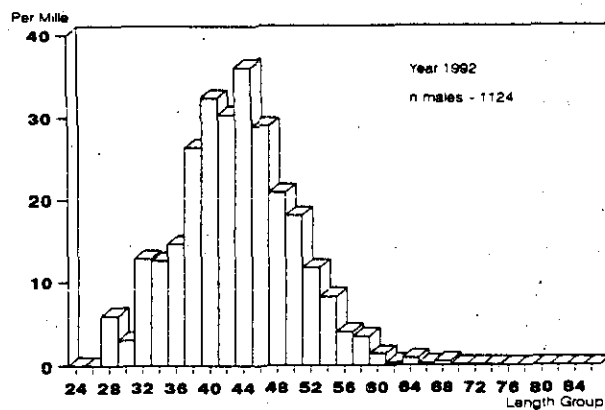


Fig. 19 - Annual length composition of Greenland halibut, (male) in Division 3N, trawl fishery in 1992.

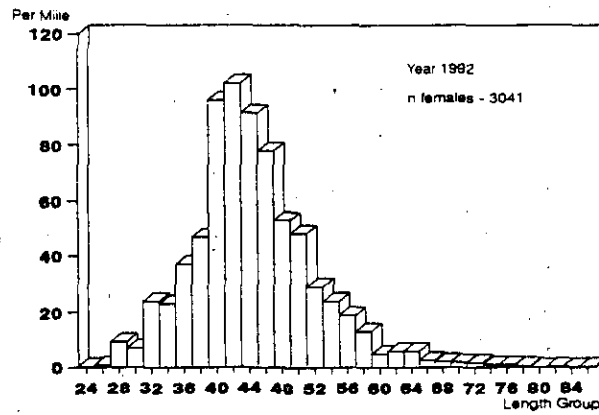


Fig. 20 - Annual length composition of Greenland halbut, (female) in Division 3N, trawl fishery in 1992.

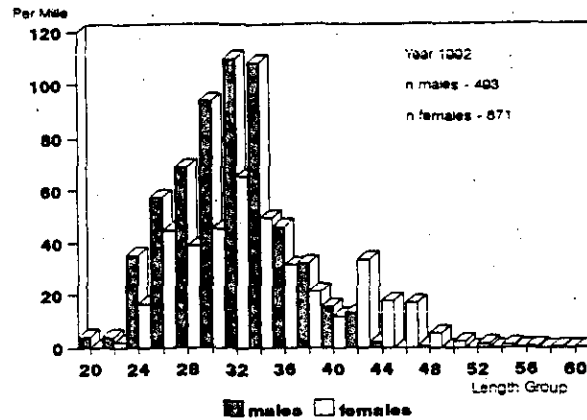


Fig. 21 - Annual length composition of American plaice, in Division 3L, trawl fishery in 1992.

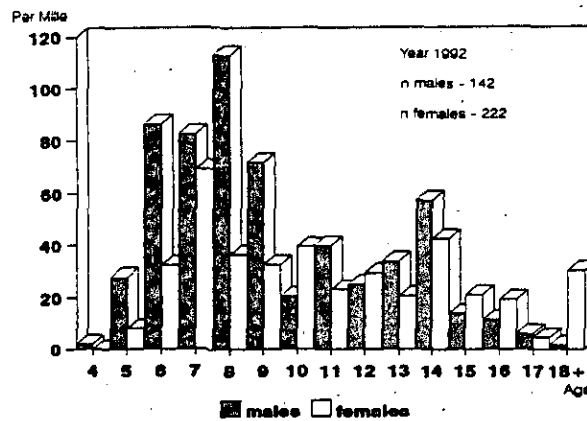


Fig. 22 - Annual age composition of American plaice, in Division 3L, trawl fishery in 1992.

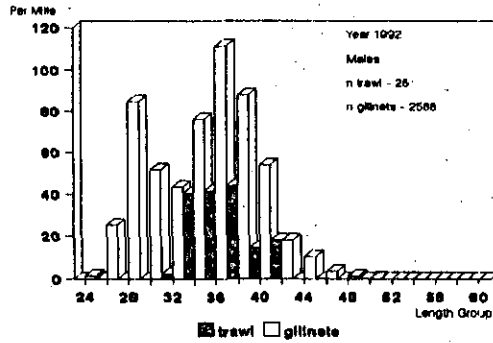


Fig. 23 - Annual length composition of American plaice, (male) in Division 3M, trawl and gillnets fishery in 1992.

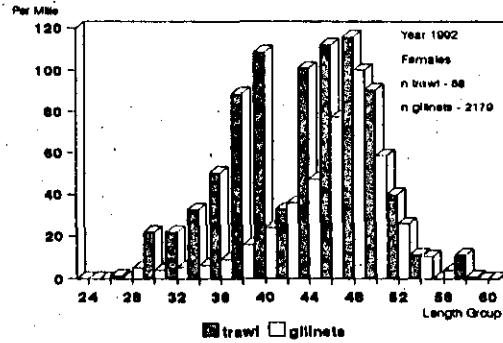


Fig. 24 - Annual length composition of American plaice, (female) in Division 3M, trawl and gillnets fishery in 1992.

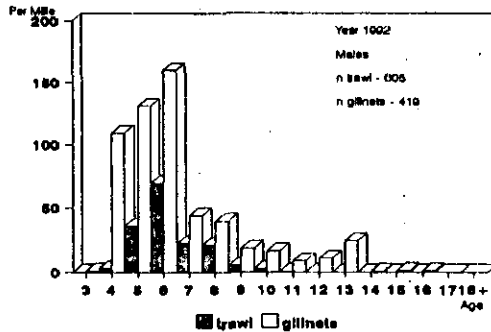


Fig. 25 - Annual age composition of American plaice, (male) in Division 3M, trawl and gillnets fishery in 1992.

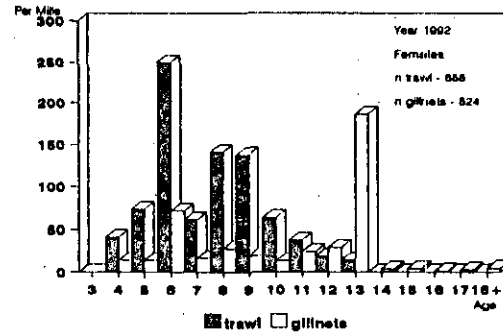


Fig. 26 - Annual age composition of American plaice, (female) in Division 3M, trawl and gillnets fishery in 1992.

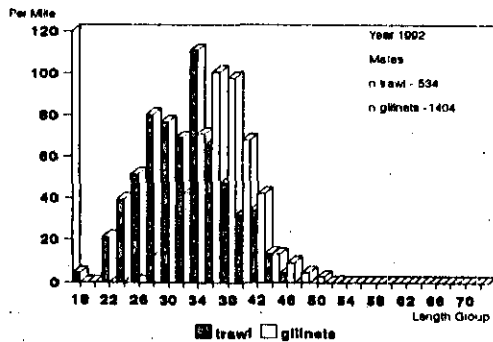


Fig. 27 - Annual length composition of American plaice, (male) in Division 3N, trawl and gillnets fishery in 1992.

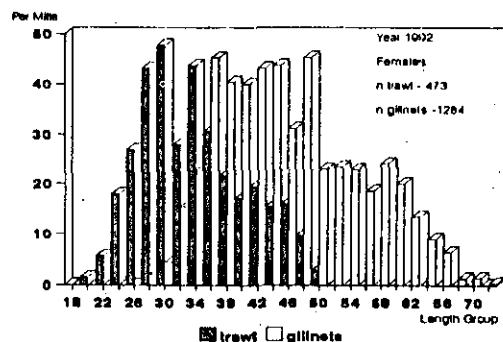


Fig. 28 - Annual length composition of American plaice, (female) in Division 3N, trawl and gillnets fishery in 1992.

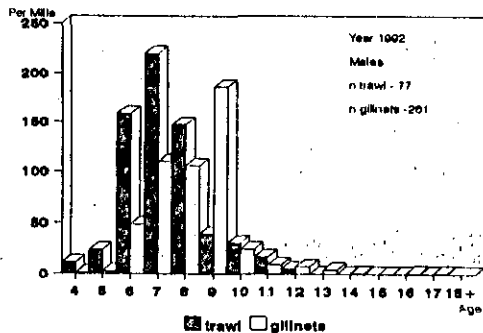


Fig. 29 - Annual age composition of American plaice, (male) in Division 3N, trawl and gillnets fishery in 1992.

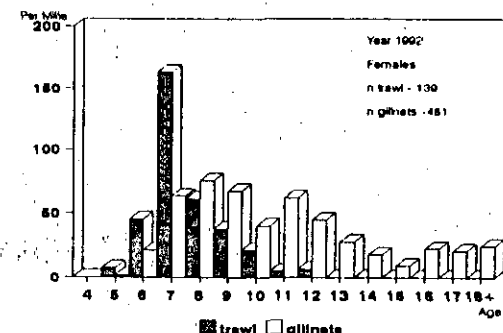


Fig. 30 - Annual age composition of American plaice, (female) in Division 3N, trawl and gillnets fishery in 1992.

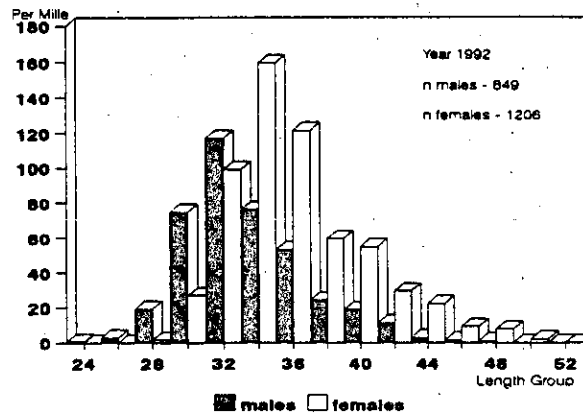


Fig. 31 - Annual length composition of Yellowtail flounder, in Division 3N, gillnets fishery in 1992.

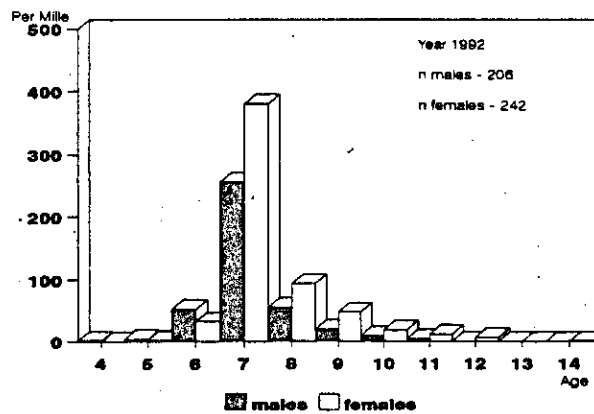


Fig. 32 - Annual age composition of Yellowtail flounder, in Division 3N, gillnets fishery in 1992.

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APPENDIX

COD, divisions 3L, 3M, 3N and 3O

$$\log w = -5.2106 + 3.034 \log l \quad (\text{Hodder, 1964})$$

REDFISH, divisions 3L, 3M, 3N and 3O

$$\begin{aligned} & 2.9548 \\ \text{males } w &= 0.01659 * l \\ & 3.0210 \\ \text{females } w &= 0.01372 * l \quad (\text{Power and Atkinson, 1990}) \end{aligned}$$

AMERICAN PLAICE, divisions 3L and 3N

$$\begin{aligned} \log w &= -5.080 + 3.041 \log l \quad (\text{Pitt, 1978}) \\ \text{division 3M} \end{aligned}$$

$$\begin{aligned} & 3.2129 \\ w &= 0.00477 * l \quad (\text{Vazquez, 1992}) \end{aligned}$$

GREENLAND HALIBUT, divisions 3L, 3M and 3N

$$\begin{aligned} & 3.3454 \\ w &= 0.002184 * l \quad (\text{Bowering and Stansbury, 1984}) \end{aligned}$$

YELLOWTAIL FLOUNDER, divisions 3N

$$\log w = -5.434 + 3.443 \log l \quad (\text{Pitt, 1978})$$

WITCH FLOUNDER, division 3L, 3M, and 3N

$$\begin{aligned} & 3.4970 \\ w &= 0.001083 * l \quad (\text{Bowering and Stansbury, 1984}) \end{aligned}$$

ROUGHHEAD GRENADIER, division 3L, 3M and 3N

$$\begin{aligned} & 2.84 \\ w &= 0.15 * l \quad (\text{Anon.}) \end{aligned}$$