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Summary of information on discards and
industrial fish for the year 1971

by Assistant Executive Secretary

1. Discards

Table 1 is a summary of information on quantities of fish discarded at sea from data submitted on ICNAF Statistics Form 4 by Canada (N), France (M), Germany (FR), Iceland, Japan, Poland, Portugal, Spain and USA. Denmark (G) reported that no fish was discarded at sea by trawlers; Canada (M), Norway and UK reported that no data were available, and no submissions were received from Bulgaria, Denmark (F), France (SP), Romania and USSR. The discard data are compared with nominal catch statistics of finfish given in Table 5 of ICNAF Statistical Bulletin Vol. 21 for the year 1971. It is thus assumed that the data reported on Statistics Form 4 pertain to the nominal catch data reported on Statlant 21B forms.

France (M) reported discards for cod, haddock, redfish and flounders in Subareas 1 to 4, Portugal for cod and "others" in Subareas 1 to 4, Spain for cod, haddock and "others" in Subareas 1 to 5, Japan for silver hake and "others" in Subareas 3 to 6, and Germany (FR) for the principal species and a "mixed" category in Subareas 1 to 6. Canada (N), in reporting discard information for certain "main species" and "gear and tonnage class" groupings in Subareas 3 and 4, listed discards (mostly zero entries) for some commercial species, and, while it is normal practice to discard all or nearly all of such species as silver hake, argentinies, sculpins, lumpfish, anglers, eelpouts, skates, etc., no indication of the quantities of these species discarded was given. Although Poland has a significant fishery in Subareas 2 and 3, information on discards were supplied for cod, redfish and "others" in Subareas 5 and 6 only. USA provided data on discards of yellowtail only in Subarea 5.

The available data for the ICNAF Statistical Area (SA 1-6) indicate that discards of cod, haddock and redfish were small (1-2%), whereas discards of flounders and "others" were 8% and 4% respectively, the former mostly yellowtails in Subarea 5.

2. Industrial Fish

Table 2 is a summary of information on quantities of fish converted to fish meal at sea from data submitted on Statistics Form 4 by Germany (FR), Portugal, Poland and USSR, and these data are shown in relation to nominal catch statistics of finfish for 1971.

Germany (FR) reported industrial fish by principal species and a "mixed" category in Subareas 1 to 6, Portugal for cod and "others" in Subareas 1 to 4, Poland for herring and mackerel in Subareas 5 and 6, and USSR by species in Subareas 1 to 5. All of the USSR data of fish converted into fish meal consisted of species which belong to the ICNAF Groups of "Other Groundfish" and "Other Fish".

For the ICNAF Statistical Area (SA 1-6) the available data indicate that negligible quantities of cod, haddock, redfish and flounders were converted into fish meal at sea, but that 16% of "other fish", mostly in Subareas 4, 5 and 6, were classed as industrial.

From Table 2 it is noted that Germany (FR) and Portugal reported quantities of industrial fish which exceed the nominal catches, and these are indicated by the symbol "*". Notes for the completion of Statlant 21A and 21B Forms indicate that quantities converted to fish meal should be included in the nominal catches. Such does not appear to be the case when industrial fish catches exceed nominal catches. Discrepancies of this kind have on several occasions in the past been brought to the attention of Member Countries.

3. Abbreviations and Symbols Used in the Tables

<u>Country</u>		<u>Species</u>	<u>Tonnage Class</u>
Can (M)	= Canada (Maritimes and Quebec)	Red = redfish	7 = over 1800
Can (N)	= Canada (Newfoundland)	Flo = flounders	6 = 901-1800
Fr (M)	= France (Metropolitan)	Her = herring	5 = 501-900
Ger (FR)	= Germany, Federal Republic	Mix = mixed	4 = 151-500
Port	= Portugal	Mac = mackerel	3 = 51-150
USSR	= Union of Socialist Soviet Republics	SH = silver hake	2 = 0-50
USA	= United States of America	OF = other fish	
<u>Symbols</u>		<u>Gear</u>	<u>Source of Information</u>
-	= magnitude indicated to be less than one-half the unit used	OT = otter trawl	Log = logbook
?	= quantities discarded or turned into fish meal might be included in quantities shown under "others"	OTSI = otter trawl, side	Int = port interview
		OTST = otter trawl, stern	Cap = captains' reports
		PT = pair trawl	Obs = observer on vessel

Table 1. Summary of information on quantities of finfish (metric tons) discarded at sea in relation to nominal catch for the year 1971.

Sub-area	Main Species	Country	Gear and Tonnage Class	COD		HADDOCK		REDFISH		FLOUNDERS		OTHERS		Source of ling Inform- Rate mation (%)		
				Nominal Dis- Catch cards	Rate (%)	Nominal Dis- Catch cards	Rate (%)	Nominal Dis- Catch cards	Rate (%)	Nominal Dis- Catch cards	Rate (%)					
1	Cod	Fr(M)	OTSI 6	4108	42	1	-	-	28	100	-	4	?	Cap 100		
		Ger(FR)	OT 5-7	40916	37	-	1	-	2023	57	16	-	192	33	15 Mix	
		Port	OTSI 6	577	-	-	-	-	-	?	-	-	-	-	Cap 100	
		"	OTST 7	728	-	-	-	-	-	?	-	-	-	-	Cap 100	
		"	PT 4	22086	3	-	64	4	6	?	587	-	-	185	100 Mix	
															Log 78	
	Total Reported			68415	82	-	65	4	6	2023	85	4	-	196	218	52
	Total All Countries			121180			77		2756		3827		-	13069		
2	Cod	Fr(M)	OTSI 6	1750	193	10	-	-	22	100	-	-	-	?	Cap 100	
		"	OTSI 6	4159	37	1	-	-	55	100	-	6	?	?	Cap 100	
		Ger(FR)	OT 6-7	19680	63	-	-	-	67	7	9	-	207	37	15 Mix	
		Port	OTSI 6	18788	3	-	-	-	-	?	-	-	-	2	100 Mix	
		"	OTST 7	15506	61	-	-	-	-	?	-	-	-	?	Log 100	
		"	OT 6	5245	46	1	-	1	100	?	-	-	-	99	100 Mix	
		Spain	PT 4	367	?	-	110	?	-	?	-	-	-	?	Log 84	
	Total Reported			65495	403	1	110	1	1	67	84	56	-	213	138	39
	Total All Countries			163221			110		6634		14045		-	62138		
3	Cod	Can(N)	OTSI 4	1494	-	-	91	-	254	-	208	-	60	?	Log 25	
		"	OTST 5	10738	-	-	430	?	181	-	4058	-	403	?	Log 1	
		Fr(M)	OTSI 6	11672	233	2	13	1	7	456	100	-	75	?	Cap 100	
		"	OTST 6	3568	42	1	-	1	100	48	100	-	17	?	Cap 100	
		Ger(FR)	OT 6-7	12154	27	-	-	-	46	5	10	-	66	7	10 Mix	
		Ice	OTSI 6	72	5	6	-	-	209	3	1	-	1	1	50 Shark	
		Port	OTSI 6	52632	8	-	-	-	-	?	?	-	-	9	100 Mix	
		"	OTST 7	17797	38	-	-	-	-	?	?	-	-	-	Log 100	
		Spain	OT 6	17813	28	-	51	2	4	?	173	?	333	667	67 Mix	
		"	PT 4	151645	823	1	3140	76	2	?	271	?	451	2939	87 Mix	
		Can(N)	OTSI 4	1313	-	-	42	-	18315	-	438	-	289	?	Log 8	
		"	OTSI 3	16	-	-	-	-	322	24	7	-	4	?	Log 69	
		Can(N)	OTSI 4	355	-	-	7	-	56	-	4372	-	23	?	Log 15	
		"	OTST 4	8000	-	-	82	-	126	-	54918	1029	1560	?	Log 2	
		Japan	OTST 5	9	-	-	-	-	7634	?	2	-	524	1	- Shark	
		"	OTST 7	-	-	-	-	-	-	-	-	-	-	-	Cap 100	
	Total Reported			289278	1204	-	3856	80	2	27180	536	2	3806	3624	49	
	Total All Countries			513717			5076		102400		163962		-	165320		

Table 1. Continued

Sub- area	Main Species	Country	Gear and Tonnage Class	COD		HADDOCK		REDFISH		FLOUNDERS		OTHERS		Source Samp- ling Infor- Rate mation (%)				
				Nominal Dis- Catch	Rate (%)	Nominal Dis- Catch	Rate (%)	Nominal Dis- Catch	Rate (%)	Nominal Dis- Catch	Rate (%)	Nominal Dis- Catch	Rate (%)					
4	Cod	Can(N)	OTSI 4	3820	-	72	-	554	-	466	-	95	?	Mix	15			
		"	OTST 5	10738	45	430	-	181	-	4058	-	403	?	Mix	3			
		Fr(M)	OTSI 6	18502	935	5	1	1	449	100	16	100	13	?	Mix	100		
		"	OTST 6	6481	41	1	?	-	85	100	-	?	17	1	1	Mix	100	
		Port	OTSI 6	12506	1	-	-	?	-	-	-	-	-	?	?	Log	100	
		"	OTST 7	4782	13	-	-	?	-	-	-	-	-	?	?	Log	100	
		"	OT 6	13152	29	-	81	5	6	?	-	-	47	117	71	Mix	84	
	Had	Spain	PT 4	36261	16	-	3094	40	1	-	-	-	715	608	46	Mix	78	
		"	Can(N)	OTSI 4	9	-	10	-	4	-	-	-	6	?	?	Mix	100	
		Can(N)	OTSI 4	1313	-	42	-	-	18315	-	438	-	289	?	?	Mix	16	
		Flo	Can(N)	OTSI 4	20	-	1	-	3	-	92	-	-	?	?	Log	30	
		Her	Ger(FR)	OT 6-7	-	-	-	-	-	-	-	-	70	-	-	Mix	100	
		Mix	Japan	OTST 7	6	-	1	-	1164	?	1	?	4270	6	-	Mix	100	
		Total Reported		107590	1080	1	3812	46	1	20221	534	3	5055	16	-	5925	732	11
	Total All Countries		221953		31449		141787		56476		564394							
5	Cod	Spain	PT 4	7619	1	1336	16	1	-	-	-	184	64	26	Mix	78		
		USA	OT 2-4	4400	?	1775	?	-	?	20069	6400	24	1787	?	?	Mix	1	
		Her	Ger(FR)	OT 6-7	-	-	3	-	-	-	-	-	57584	7637	12	Her	100	
		Poland	OTSI 5	106	9	-	-	-	5	100	-	-	23693	16	-	Mix	33	
		"	OTST 6	-	-	-	-	19	-	-	-	-	33953	10	-	Mix	33	
		"	OTST 7	49	-	1	-	65	-	2	-	-	65801	26	-	Mix	33	
		Mix	Japan	OTST 7	20	?	10	?	4	?	8	8	50	10515	420	4	Mix	100
	"	"	OTST 6	-	-	-	-	-	-	1	-	119	59	33	Mac	100		
		Total Reported		12194	10	3125	16	1	88	5	5	20080	6408	24	193636	8232	4	
		Total All Countries		35357		12168		20034		45950		629766						
	6	Her	Ger(FR)	OT 6-7	-	-	-	-	-	-	-	-	1621	-	-	-	Cap	100
			Poland	OTSI 5	76	11	13	-	-	5	100	-	-	21886	16	-	Mix	33
			"	OTST 6	3	-	-	-	3	-	-	-	-	29449	20	-	Mix	33
			"	OTST 7	22	?	-	-	-	-	-	-	-	44739	26	-	Mix	33
		Mix	Japan	OTST 6	-	-	-	-	-	-	7	?	380	421	53	Mac	100	
"			OTST 7	-	-	-	-	-	-	28	?	6170	783	11	Mac	100		
Total Reported			101	11	-	-	-	3	5	62	?	104245	1266	1				
Total All Countries			484		8		3		12860		603943							
ALL	Total Reported		543073	2790	1	10968	147	1	49582	1249	2	90303	7493	8	308021	14210	4	
Total All Countries		1055912		4888		273614		297120		2038630								

Table 2. Summary of information on quantities of fish converted to fish meal at sea in relation to nominal catch for the year 1971.

Sub- area	Main Species	Country	Gear and Tonnage Class	COD			HADDOCK			REDFISH			FLOUNDERS			OTHERS			Source Samp- ling of Infor- Rate mation (%)
				Nominal Dis- Catch	Rate (%)	Nominal Dis- Catch	Nominal Dis- Catch	Rate (%)	Nominal Dis- Catch	Nominal Dis- Catch	Rate (%)	Nominal Dis- Catch	Nominal Dis- Catch	Rate (%)	Nominal Dis- Catch	Nominal Dis- Catch	Rate (%)	Nominal Dis- Catch	
1	Cod	Ger(FR)	OT 5-7	40916	723	2	1	-	-	2023	67	3	16	-	-	192	237	* Mix	Cap 100
		Port	OTST 7	728	11	2	-	-	-	-	-	-	-	-	-	-	-	-	Log 100
	Mix	USSR	All	59	-	-	-	-	-	13	-	-	737	-	-	4153	355	9 RNG	NS
2	Cod	Ger(FR)	OT 6-7	19680	778	4	-	-	-	67	33	49	-	-	-	207	252	* Mix	Cap 100
		Port	OTSI 6	18788	33	-	-	-	-	-	-	-	-	-	-	-	4	* Mix	Log 100
		"	OTST 7	15506	455	3	-	-	-	-	-	-	-	-	-	-	43	* Mix	Log 100
	Mix	USSR	All	61562	-	-	-	-	-	5919	-	-	10026	-	-	58619	8618	15 Mix	NS
3	Cod	Ger(FR)	OT 6-7	12154	248	2	-	-	-	46	25	54	75	-	-	66	54	82 Mix	Cap 100
		Port	OTSI 6	52632	68	-	-	-	-	-	-	-	-	-	-	-	25	* Mix	Log 100
		"	OTST 7	17797	538	3	-	-	-	-	-	-	-	-	-	-	333	* Mix	Log 100
	Mix	USSR	All	44262	-	-	479	-	-	71246	-	-	50402	-	-	31921	5199	16 Mix	NS
4	Her	Ger(FR)	OT 6-7	-	-	-	-	-	-	-	-	-	-	-	-	70	-	- Mix	Cap 100
		Port	OTSI 6	12506	31	-	-	-	-	-	-	-	-	-	-	-	-	- Mix	Log 100
		"	OTST 7	4782	46	1	-	-	-	-	-	-	-	-	-	-	38	* Mix	Log 100
	Mix	USSR	All	4843	-	-	572	-	-	20591	-	-	20051	-	-	216790	49853	23 Mix	NS
5	Her	Ger(FR)	OT 6-7	-	-	-	3	-	-	-	25	*	-	-	-	57584	2618	5 Her	Cap 100
		Poland	OTSI 5	106	-	-	-	-	-	-	-	-	-	-	-	23693	883	4 Her	Obs 33
		"	OTST 6	-	-	-	-	-	-	19	-	-	-	-	-	33953	2199	6 Mac	Obs 33
		"	OTST 7	49	-	-	1	-	-	65	-	-	2	-	-	65801	17318	26 "	Obs 33
	Mix	USSR	All	1270	-	-	374	-	-	3394	-	-	6767	-	-	274476	31414	11 Mix	NS
6	Mac	Ger(FR)	OT 6-7	-	-	-	-	-	-	-	-	-	-	-	-	1621	-	- Mix	Cap 100
		Poland	OTSI 5	76	-	-	-	-	-	-	-	-	-	-	-	21886	899	4 Her	Obs 33
		"	OTST 6	3	-	-	-	-	-	3	-	-	-	-	-	29449	2408	8 Mac	Obs 33
	Mac	"	OTST 7	22	-	-	-	-	-	-	-	-	-	-	-	44739	19135	43 "	Obs 33
ALL	Total Reported			307741	2931	1	1430	-	-	103386	150	-	88076	-	-	865220	141885	16	
	Total All Countries			1055912			48888			273614			297120			2038630			

* Industrial fish catch exceeds nominal catch.

