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ANNUAL MEETING - JUNE 1978

Statistics on Discards, 1976

by

Assistant Executive Secretary

1. At the 1976 Annual Meeting, the Subcommittee on Statistics and Sampling was concerned about the sparseness of information on discards reported for 1974, particularly in regard to the absence of data from several countries with major fisheries in the ICNAF Area (*Redbook* 1976, page 129). The matter of discarding at sea was considered to be very important, since it represents the removal of unknown quantities of fish which may have a significant effect on stock assessments. Since data on discards are required to be recorded in fishing logbooks, the Subcommittee stressed the need for national scientists to take an active interest in analyzing the logbook data on discards to ensure that the most reliable information is reported to the Secretariat.
2. In a continuing effort to obtain information on discards, the Secretariat in early 1977 provided a supply of DISCARDS FORM (03/75) to a designated representative of each country who was requested to ensure that a report on discards be completed and submitted to the Secretariat by the usual deadline of 31 July 1977.
3. Reports for 1976 have been received from Canada (Nfld), Cuba, Federal Republic of Germany, Norway, Poland and USA. Cuba reported that all of its vessels have meal plants and consequently the quantities discarded are very insignificant. Norway indicated that most vessels fishing for cod use longlines and gillnets and that there are usually no discards from these vessels. Poland reported that the quantities of discarded fish by its fleet were minimal. USA reported on discards in the yellowtail flounder fishery only. USSR submitted a report on the disposition of catch for the manufacture of fish meal by subarea, but there was no indication of the quantities being discarded.
4. All of the available data for 1976 are presented on the following pages in the same format as they were received. The available data for 1973 to 1975 were given in Sum. Doc. 75/45, 76/VI/29 and 77/VI/18. The following summary indicates the extent to which member countries have bothered to submit a report to the Secretariat (X indicates that some data were reported, and N indicates that discards were nil or negligible):

Country	1973	1974	1975	1976
Canada (Nfld)	X	X	X	X
Cuba			N	N
France (M)	X			
Fed. Rep. Germany	X	X	X	X
German Dem. Rep.		X		
Japan	X	X	X	
Norway		N	N	N
Poland	X		N	N
Portugal	X	X		
UK	X	X	X	
USA	X	X	X	X

INTERNATIONAL COMMISSION FOR THE NORTHWEST ATLANTIC FISHERIES

ANNUAL RETURN OF INFORMATION ON DISCARDS

(for reporting weights of whole fish thrown overboard at sea)

Year: 1976 Country: Canada (Nfld.) Gear: OTB 1 Tonnage Class: 150-500
 Check (✓) method used Logbook Port Interview
 to get information: Boat Observer Other (specify) _____

TOTAL WEIGHT FOR YEAR BY SPECIES AND/OR SPECIES GROUPS (metric tons round fresh)

Species	Div.: 3L Nominal Dis- catch cards	Div.: 3N Nominal Dis- catch cards	Div.: 3O Nominal Dis- catch cards	Div.: 3Pn Nominal Dis- catch cards	Div.: 3Ps Nominal Dis- catch cards
Cod	60	25	42	654	706
Haddock					18
Redfish	81			1,174	4,567
S. hake					1
R. hake					
Pollock					
A. plaice	255	2	206	2	1,568
Witch				26	
Yellowtail					81
G. halibut	2			7	3
Other Flo.					
RN grenadier					
Other gro'fish	20	1	7		106
Herring					
Mackerel					
Other Pelagics					
Argentine					
Capelin					
Other Fish					
Squids					
Shrimp					
Sampling Rate*	7.21	7.70	13.08	3.97	1.92

Reported by: D. A. Tilley

INTERNATIONAL COMMISSION FOR THE NORTHWEST ATLANTIC FISHERIES

ANNUAL RETURN OF INFORMATION ON DISCARDS

(for reporting weights of whole fish thrown overboard at sea)

Year: 1976 Country: Canada, (Nfld.) Gear: OTB 1 Tonnage Class: 151-500
 Check (✓) method used Logbook Port Interview
 to get information: Boat Observer Other (specify) _____

TOTAL WEIGHT FOR YEAR BY SPECIES AND/OR SPECIES GROUPS (metric tons round fresh)

Species	Div.: 4R Nominal Dis- catch cards	Div.: 4S Nominal Dis- catch cards	Div.: 4T Nominal Dis- catch cards	Div.: Nominal Dis- catch cards
Cod	2,657	1	349	1,423
Haddock				
Redfish	822			
S. hake				
R. hake				
Pollock				
A. plaice	343	1	52	921
Witch	667		185	
Yellowtail				
G. halibut				4
Other Flo.				
RN grenadier				
Other gro'fish				
Herring				
Mackerel				
Other Pelagics				
Argentine				
Capelin				
Other Fish				
Squids				
Shrimp				
Sampling Rate*	4.05	5.27	4.78	

Reported by: D. A. Tilley

INTERNATIONAL COMMISSION FOR THE NORTHWEST ATLANTIC FISHERIES

ANNUAL RETURN OF INFORMATION ON DISCARDS

(for reporting weights of whole fish thrown overboard at sea)

Year: 1976	Country: Canada (NFLD.)	Gear: OTB (stern)	Tonnage Class: 151-500
Check (✓) method used <input checked="" type="checkbox"/> Logbook <input type="checkbox"/> Port Interview <input type="checkbox"/>			
to get information: <input type="checkbox"/> Boat Observer <input type="checkbox"/> Other (specify) _____			

TOTAL WEIGHT FOR YEAR BY SPECIES AND/OR SPECIES GROUPS (metric tons round fresh)

Species	Div.: 2L Nominal Dis-catch cards	Div.: 3N Nominal Dis-catch cards	Div.: 30 Nominal Dis-catch cards	Div.: 3Ps Nominal Dis-catch cards	Div.: 4R Nominal Dis-catch cards
Cod	7	21	54	172	199
Haddock			3		
Redfish		1	1	273	69
S. hake					2
R. hake					
Pollock					
A. plaice	314	12	452	363	11
Witch	1	21	57	76	4
Yellowtail	3	330	161	108	4
G. halibut	1			4	13
Other FLo.					
RN grenadier					
Other gro'fish	24	1	6	5	
Herring					
Mackerel					
Other Pelagics					
Argentine					
Capelin					
Other Fish					
Squids					
Shrimp					
Sampling Rate*	54.06	72.47	63.60	42.33	26.86

Reported by: D.A. Tilley

INTERNATIONAL COMMISSION FOR THE NORTHWEST ATLANTIC FISHERIES

ANNUAL RETURN OF INFORMATION ON DISCARDS

(for reporting weights of whole fish thrown overboard at sea)

Year: 1976	Country: Canada (NFLD.)	Gear: OTB (stern)	Tonnage Class: 501-900
Check (✓) method used <input checked="" type="checkbox"/> Logbook <input type="checkbox"/> Port Interview <input type="checkbox"/>			
to get information: <input type="checkbox"/> Boat Observer <input type="checkbox"/> Other (specify) _____			

TOTAL WEIGHT FOR YEAR BY SPECIES AND/OR SPECIES GROUPS (metric tons round fresh)

Species	Div.: 2I Nominal Dis-catch cards	Div.: 3K Nominal Dis-catch cards	Div.: 3V Nominal Dis-catch cards	Div.: 3M Nominal Dis-catch cards	Div.: 3N Nominal Dis-catch cards
Cod	78	619	5	2,007	7
Haddock					53
Redfish	113	1	54	8	593
S. hake					3
R. hake					
Pollock					
A. plaice	2	734	9	19,845	642
Witch	10	70	1	244	5
Yellowtail					2
G. halibut	70	1	86	3	231
Other FLo.					1
RN grenadier					
Other gro'fish		86		1,745	17
Herring					
Mackerel					
Other Pelagics					
Argentine					
Capelin					
Other Fish					
Squids					
Shrimp					
Sampling Rate*	13.96	32.38	35.87	60.09	42.98

Reported by: D.A. Tilley

INTERNATIONAL COMMISSION FOR THE NORTHWEST ATLANTIC FISHERIES

ANNUAL RETURN OF INFORMATION ON DISCARDS

(for reporting weights of whole fish thrown overboard at sea)

Year: 1976 Country: Canada (NEfld.) Gear: OTB (stern) Tonnage Class: 501-900
 Check (✓) method used Logbook Port Interview
 to get information: Boat Observer Other (specify)

TOTAL WEIGHT FOR YEAR BY SPECIES AND/OR SPECIES GROUPS (metric tons round fresh)

Species	Div.: 30 Nominal catch	Div.: 30 Dis- cards	Div.: 30n Nominal catch	Div.: 30n Dis- cards	Div.: 3Ps Nominal catch	Div.: 3Ps Dis- cards	Div.: 4R Nominal catch	Div.: 4R Dis- cards	Div.: 4S Nominal catch	Div.: 4S Dis- cards
Cod	1,161	4	130	1	1,042	3	1,484	12	337	
Haddock										
Redfish			238	3	191	2	1,324	2		
S. hake										
R. hake										
Pollock										
A. plaice	5,593	158	41		3,678	70	264	2	306	2
Witch	1,649	24	49	1	372	8	1,944	28		
Yellowtail	2,195	61			2,043	36				
G. halibut			7		6		196			
Other Flo.										
RN grenadier										
Other gro'fish	51				39		7			
Herring										
Mackerel										
Other Pelagics										
Argentine										
Capelin										
Other Fish										
Squids										
Shrimp										
Sampling (%) Rate*	35.88		18.86		20.77		25.37		7.86	

Reported by: D. A. Tilley

INTERNATIONAL COMMISSION FOR THE NORTHWEST ATLANTIC FISHERIES

ANNUAL RETURN OF INFORMATION ON DISCARDS

(for reporting weights of whole fish thrown overboard at sea)

Year: 1976 Country: Canada, (NEfld.) Gear: OTB (stern) Tonnage Class: 501-900
 Check (✓) method used Logbook Port Interview
 to get information: Boat Observer Other (specify)

TOTAL WEIGHT FOR YEAR BY SPECIES AND/OR SPECIES GROUPS (metric tons round fresh)

Species	Div.: 4T Nominal catch	Div.: 4T Dis- cards	Div.: 4Vn Nominal catch	Div.: 4Vn Dis- cards	Div.: 4Vs Nominal catch	Div.: 4Vs Dis- cards	Div.: 4W Nominal catch	Div.: 4W Dis- cards
Cod	706	7	618	3	237		5	2
Haddock								
Redfish	28				152	2		
S. hake								
R. hake								
Pollock								
A. plaice	1,486	259	166	20	435	4	10	
Witch	154		84	1	131		7	
Yellowtail								
G. halibut	22		9					
Other Flo.								
RN grenadier								
Other gro'fish	5							
Herring								
Mackerel								
Other Pelagics								
Argentine								
Capelin								
Other Fish								
Squids								
Shrimp								
Sampling (%) Rate*	26.09		14.81		13.13		18.31	

Reported by: D. A. Tilley

INTERNATIONAL COMMISSION FOR THE NORTHWEST ATLANTIC FISHERIES

ANNUAL RETURN OF INFORMATION ON DISCARDS

(for reporting weights of whole fish thrown overboard at sea)

Year: 1976 Country: Germany, Fed. Rep. Gear: Otter trawl Tonnage Class: >2000 GRT
 Check (✓) method used Logbook Port Interview
 to get information: Boat Observer Other (specify)

TOTAL WEIGHT FOR YEAR BY SPECIES AND/OR SPECIES GROUPS (metric tons round fresh)

Species	Div.: 1E		Div.: 1F		Div.: 4X		Div.: 5Z		Div.: 5E	
	Nominal Dis-catch cards	Dis-catch cards	Nominal Dis-catch cards	Dis-catch cards	Nominal Dis-catch cards	Dis-catch cards	Nominal Dis-catch cards	Dis-catch cards	Nominal Dis-catch cards	Dis-catch cards
Cod	1896	0	1960	17	0	0	11			
Haddock					0	0	0			
Redfish	1836	2	2226	12	2					
S. hake					97	81	3			
R. hake										
Pollock					100	894				
A. plaice										
Witch			4							
Yellowtail										
G. halibut	18		18							
Other Flg.	24		75							
RN grenadier	147									
Other gro'fish	1165	0	681	2		59				
A. halibut	22		31							
Herring					279	1	8755	8		
Mackerel					279	965	3			
Other Pelagics					135	2282				
Argentine										
Capelin										
Other Fish	2		9				1			
Squids					27	1123	1			
Shrimp										
Sampling Rate*	100		100		100		100			

Reported by: Captains of the Fishing Vessels

INTERNATIONAL COMMISSION FOR THE NORTHWEST ATLANTIC FISHERIES

ANNUAL RETURN OF INFORMATION ON DISCARDS

(for reporting weights of whole fish thrown overboard at sea)

Year: 1976 Country: USA Gear: OTB1, OTB2 Tonnage Class: MIX
 Check (✓) method used Logbook Port Interview
 to get information: Boat Observer Other (specify)

TOTAL WEIGHT FOR YEAR BY SPECIES AND/OR SPECIES GROUPS (metric tons round fresh)

Species	Div.: 5(E 690)		Div.: 5(M 69)		Div.: 6A		Div.: 6B	
	Nominal Dis-catch cards	Dis-catch cards	Nominal Dis-catch cards	Dis-catch cards	Nominal Dis-catch cards	Dis-catch cards	Nominal Dis-catch cards	Dis-catch cards
Cod								
Haddock								
Redfish								
S. hake								
R. hake								
Pollock								
A. plaice								
Witch								
Yellowtail	11427	656	5466	295				
G. halibut								
Other Flg.								
RN grenadier								
Other gro'fish								
Herring								
Mackerel								
Other Pelagics								
Argentine								
Capelin								
Other Fish								
Squids								
Sampling Rate*	13.93%		0.10%					

Reported by: R. K. Mayo

