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Statistics On Discards And Industrial Fish

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In order to ensure the collection of total catch statistics, and in anticipation of future trends in the fisheries, it is considered that data on industrial fish, such as fish meal, are required in addition to discard data, by species and division. Such statistics should eventually appear in the Statistical Bulletin to provide a complete record of catches rather than of landings only.

At the Twelfth Annual Meeting (1962) in Moscow it was recommended that the discard form, then in use by ICNAF, should be redesigned to provide more information.

At the Thirteenth Annual Meeting (1963) the revised ICNAF Statistics 4 Form (Statistics on Discards and Industrial Fish) was reviewed, and found satisfactory. It was, therefore, recommended that the new form for reporting discards and industrial fish as set out in Appendix V - Annex 1, pp. 37-38, in the Redbook 1962, Part 1, be used by all member countries during the year 1963 and that the results be reviewed at the 1964 Annual Meeting in Hamburg. If the statistics for the year 1963 should not be available, it was recommended that countries use the statistics for discards and industrial fish of previous years for the first trial with the new Form 4.

Due to the lateness of the return of these forms it has not been possible to make a comparative analysis of these data for committee reviewing. Some passing comments may be in order at this time which may assist somewhat in deciding the satisfaction of the results and the possible revamping of the form itself.

1. In anticipation of some form of standardization of reporting in a statistical bulletin we possibly should be thinking in terms of one of the following:

"What percentage of the total catch is discarded?"

OR

"What percentage of landings, when added to same, would give total catch?"

<u>Example:</u>	<u>Landed Weight</u>	<u>Discards at Sea</u>
	100	20

In order to arrive at total catch figures based on landed weight, it could be said that discards represent 20% of the landed weight; or it could be said that 16 2/3 % of the catch is discarded at sea.

2. It is customary to say that "Catch equals landings plus discards", but there is also the condition when landings include discards (since a portion is turned into meal after "weigh-in") and a further condition when discards, ear-marked for industrial use, are not included in the landings in the "weigh-in". I am thinking of France (St. P. et M.) in the first instance and Canada (N) in the second.

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3. There is still another instance where the flounder landings reported for a particular division were approximately 40,000 pounds while the discards reported were about 20,000 pounds. Of course, the 20,000 pounds represented "spoiled fish" which went into industrial use and which were not included in the actual landed weight. It was reported, however, in the discard sample.
4. When reviewing the Statistical 4 Form with the object in mind of determining the Total Catch Statistics, only one of the following combinations should be required:

CASE A

- (i) Total Landings in this Division According to Annual Statistics  
Plus
- (ii) Discarded Fish (Total Weight) Recorded  
Plus
- (iii) Discarded Fish (Total Weight) Calculated  
Plus
- (iv) Whole Fish Turned Into Industrial Fish (Total Weight) Recorded  
Plus
- (v) Whole Fish Turned Into Industrial Fish (Total Weight) Calculated

CASE B

- (i) Total Landings in this Division According to Annual Statistics  
Plus
- (ii) Discarded Fish (Total Weight) Calculated  
Plus
- (iii) Whole Fish Turned Into Industrial Fish (Total Weight) Calculated

It would appear from the data submitted that both these conditions exist. Some decision will have to be made concerning the proper procedure to be followed. This applies to percentages as well.

Since not all submissions were available at the time of this writing it was not possible to comment fully on the Statistics on Discards and Industrial Fish. This can be done in committee or later in the year when time permits the scrutiny of all data.

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The following data were received too late for duplication. These data will be made available for review at the sub-committee meetings on discards and industrial fish.

SPAIN -- 1963 - Pair Trawl

<u>Division</u>	<u>Months</u>
3L	February, March, April, May, June, July, August, September, October, November.
3M	May, June.
3N	February, April, May, June, July, August, September, October, November.
3O	April, May, June, July, August, September, October, November.
3Ps	February, April, June, July, August, September, October, November, December.
4T	April, May, June, July, August, September.
4Vn	October.
4Vs	February, March, April, May, June, July, August, September, October, November.
4W	February, March, April, May, June, July, August, September, October, November.
4X	February.

GENERAL COMMENTS:

The statistics on discards and industrial fish were submitted in different ways. The following is a general review of these submissions:

- (1) Italy reported a straight 50% for discarded fish and 5% for fish turned into industrial use. (See page 7.) These figures apparently were based on total catch. There were no landings for which discards had been recorded in the statistical division. These data were for Subareas 3 and 4 combined and for the full year 1962 (not by months). Data were based on calculations only.
- (2) France (St. P. et M.) reported a particular percentage for each species of fish turned into industrial use. (See pages 8 to 11.) These figures apparently were based on total landings. There were no landings for which discards had been recorded in the statistical division. Data were submitted by divisions but not for each month for the year 1963. Data were based on calculations only.
- (3) The Federal Republic of Germany reported a particular percentage for each species of discarded fish and fish turned into industrial use. (See pages 12 to 28.) These figures apparently were based on total landings. Discards were recorded in the statistical divisions. Data were submitted by divisions and months for the year 1963. Data were calculated on the basis of recordings.

Landings for which discards have been recorded in the statistical divisions represented 74.2% of the total landings in the divisions according to annual statistics, (146580 : 198373 metric tons).

- (4) Spain reported a particular percentage for each species of discarded fish. (These data have not been received in time for duplication.) These figures apparently were based on total landings. Discards were recorded in the

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GENERAL COMMENTS:

(4) (cont'd)

statistical divisions. Data were submitted by divisions and months for the year 1963. Data were generally calculated on the basis of recordings. Calculated percentages were slightly different than recorded percentages. Landings for which discards have been recorded in the statistical divisions represented 84.9% of the total landings in the divisions according to annual statistics (90036 : 106114 metric tons).

(5) Canada (Maritimes) reported a particular percentage for each species of discarded fish. (See pages 29 to 33.) These figures apparently were based on total landings. Discards were recorded in the statistical divisions. Data were submitted by divisions and months for the year 1962. Data were calculated on the basis of recordings. Landings for which discards have been recorded in the statistical divisions represented 1.5% of the total landings in the divisions according to annual statistics (170 : 11368 metric tons).

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LCNAF STATISTICS 4

STATISTICS ON DISCARDS AND INDUSTRIAL FISH

METRIC TONS ROUND FRESH

COUNTRY		DIVISION		YEAR	MONTH	TONNAGE CLASS			
SPECIES DISCARDED	METHOD OF HANDLING FISH ON BOARD	MAXIMUM SIZE OF FISH NOT RETAINED FOR HUMAN CONSUMPTION	LANDINGS FOR WHICH DISCARDS HAVE BEEN RECORDED IN THE DIVISION	TOTAL LANDINGS IN THIS DIVISION ACCORDING TO ANNUAL STATISTICS	TOTAL NUMBER OF TRIPS TO THIS DIVISION ACCORDING TO ANNUAL STATISTICS				
					DISCARDED FISH		WHOLE FISH TURNED INTO INDUSTRIAL USE		
					PERCENT		PERCENT		
					RECORDED	CALCULATED	RECORDED	CALCULATED	
		TOTAL WEIGHT		TOTAL WEIGHT					
		RECORDED	CALCULATED	RECORDED	CALCULATED	RECORDED	CALCULATED		
COD									
HADDOCK									
REDFISH									
HALIBUT									
FLOUNDERS (SPECIFY)									
OTHERS (SPECIFY)									

RECORDING SYSTEM:

INSTRUCTIONS FOR COMPLETING ICNAF STATISTICS 4 FORM

1. ICNAF STATISTICS 4 FORM SHOULD, SO FAR AS POSSIBLE, BE COMPLETED FOR EACH TYPE AND SIZE OF VESSEL AND GEAR USED, FOR EACH DIVISION FISHED AND FOR EACH MONTH.
2. LANDINGS AND TOTAL WEIGHTS (BOTH RECORDED AND CALCULATED) SHOULD BE REPORTED IN METRIC TONS ROUND FRESH, TO THE NEAREST TON, AND A LIST OF CONVERSION FACTORS SHOULD BE ATTACHED.
3. IN THE SPACE PROVIDED AT THE TOP OF EACH FORM SUBMITTED YOU ARE REQUIRED TO STATE THE COUNTRY, DIVISION, YEAR, MONTH, VESSEL OR GEAR TYPE AND TONNAGE CLASS. YOU SHOULD ALSO INCLUDE UNDER "VESSEL OR GEAR TYPE" ANY SPECIAL EQUIPMENT SUCH AS FISHMEAL PLANTS, ETC.
4. "NUMBER OF TRIPS FOR WHICH DISCARDS HAVE BEEN RECORDED IN THE DIVISION" AND "TOTAL NUMBER OF TRIPS TO THIS DIVISION ACCORDING TO ANNUAL STATISTICS" SHOULD BE REPORTED BY MONTHS IF POSSIBLE, OTHERWISE AS TOTALS FOR THE YEAR.
5. "SPECIES DISCARDED" - SPECIES OF INTEREST OTHER THAN THE MAJOR SPECIES LISTED, SHOULD BE SPECIFIED UNDER "OTHERS"
6. "METHOD OF HANDLING FISH ON BOARD" - STATE WHETHER FISH IS STORED ON ICE, FILLETED, DEEP FROZEN, SALTED, ETC.
7. "MAXIMUM SIZE OF FISH NOT RETAINED FOR HUMAN CONSUMPTION" SHOULD BE OBTAINED EITHER BY SAMPLE MEASUREMENTS OR BY INQUIRY FROM SKIPPERS AND REPORTED IN CENTIMETRES. SAMPLING FOR SIZES OF DISCARDS IS THE REAL NEED HERE.
8. "LANDINGS FOR WHICH DISCARDS HAVE BEEN RECORDED IN THE DIVISION" REPRESENTS THAT PART OF THE LANDINGS WHICH HAVE ACTUALLY BEEN SAMPLED FROM THE PARTICULAR VESSEL OR GEAR TYPE AND TONNAGE CLASS. "TOTAL LANDINGS IN THIS DIVISION ACCORDING TO ANNUAL STATISTICS" IS THAT WHICH HAVE BEEN ACTUALLY LANDED BY THE PARTICULAR VESSEL OR GEAR TYPE AND TONNAGE CLASS IN WHICH THE SAMPLING TOOK PLACE.
9. "DISCARDED FISH" AND "WHOLE FISH TURNED INTO INDUSTRIAL USE". THE QUANTITY OF FISH NOT LANDED FOR HUMAN CONSUMPTION SHOULD BE GIVEN BOTH BY WEIGHT (METRIC TONS ROUND FRESH) AND AS A PERCENTAGE (BY WEIGHT) OF THE TOTAL CATCH OF THAT SPECIES. "DISCARDED FISH" INCLUDES ALL FISH THROWN BACK INTO THE SEA OR USED AS BAIT IN THE LINE-FISHERIES. "INDUSTRIAL FISH" IS THAT PART OF THE CATCH CONVERTED INTO FISHMEAL, ANIMAL FOOD AND FISH FLOUR, ETC. THUS THE QUANTITIES OF "DISCARDED FISH" AND "INDUSTRIAL FISH" SHOULD TOGETHER CONSTITUTE THE WHOLE OF THE CATCH WHICH IS NOT AT PRESENT REPORTED IN THE STATISTICS OF LANDINGS.  
  
THE COLUMNS "DISCARDED FISH" AND "WHOLE FISH TURNED INTO INDUSTRIAL USE" ARE FURTHER SUBDIVIDED INTO THAT PART OF THE "BY-CATCH" OF WHICH THE QUANTITY EITHER DISCARDED OR USED FOR INDUSTRIAL PURPOSES IS DIRECTLY RECORDED, AND THE TOTAL OF SUCH CATEGORIES AS MAY BE ESTIMATED (CALCULATED) BY RAISING FROM THE RECORDED QUANTITIES, IF THE LATTER IS BASED ON SAMPLES ONLY.  
  
IT SHOULD BE NOTED THAT THE COLUMN "TOTAL LANDINGS IN THIS DIVISION ACCORDING TO ANNUAL STATISTICS" PLUS THE COLUMNS "TOTAL WEIGHT CALCULATED FOR DISCARDED FISH" AND/OR "TOTAL WEIGHT CALCULATED FOR WHOLE FISH TURNED INTO INDUSTRIAL USE" SHOULD EQUAL THE ACTUAL CATCH FOR THE DIVISION.
10. UNDER THE HEADING "RECORDING SYSTEM" SHOULD BE ENTERED A BRIEF DESCRIPTION OF HOW THE DATA ON DISCARDED AND/OR INDUSTRIAL FISH HAVE BEEN OBTAINED, I.E., WHETHER BY "OBSERVERS ON BOARD", OR "LOG BOOKS", ETC.

I.C.N.A.F. STATISTICS 4

STATISTICS ON DISCARDS AND INDUSTRIAL FISH

METRIC TONS ROUND FRESH

COUNTRY	Italy	VESSEL OR GEAR TYPE	Otter trawler	DIVISION	3 and 4	YEAR	1962	MONTH					
								February, March, April	TONNAGE CLASS				
								901-1800					
NUMBER OF TRIPS FOR WHICH DISCARDS HAVE BEEN RECORDED IN THE DIVISION								TOTAL NUMBER OF TRIPS TO THIS DIVISION ACCORDING TO ANNUAL STATISTICS					
SPECIES DISCARDED	METHOD OF HANDLING FISH ON BOARD	SIZE OF FISH NOT RETAINED FOR HUMAN CONSUMPTION	LANDINGS FOR WHICH DISCARDS HAVE BEEN RECORDED IN THE DIVISION	TOTAL LANDINGS IN THIS DIVISION ACCORDING TO ANNUAL STATISTICS	DISCARDED FISH		TOTAL WEIGHT		PERCENT		WHOLE FISH TURNED INTO INDUSTRIAL USE		
					PERCENT	RECORDED	CALCULATED	RECORDED	CALCULATED	RECORDED	CALCULATED	RECORDED	CALCULATED
COD		50 cm		892									
HADDOCK		40 cm		114									
REDFISH		30 cm		3									
HALIBUT		30 cm		9									
FLOUNDERS (SPECIFY)													
OTHERS (SPECIFY)													

RECORDING SYSTEM: Estimated.

ICNAF STATISTICS 4

STATISTICS ON DISCARDS AND INDUSTRIAL FISH

METRIC TONS ROUND FRESH

COUNTRY FRANCE St Pierre et Miquelon		DIVISION 3N		YEAR 1963		MONTH		TONNAGE CLASS 151-500						
VESSEL OR GEAR TYPE		Other trawls		TOTAL NUMBER OF TRIPS TO THIS DIVISION ACCORDING TO ANNUAL STATISTICS		8.6								
NUMBER OF TRIPS FOR WHICH DISCARDS HAVE BEEN RECORDED IN THE DIVISION		MAXIMUM SIZE OF FISH NOT RETAINED FOR HUMAN CONSUMPTION		LANDINGS FOR WHICH DISCARDS HAVE BEEN RECORDED IN THE DIVISION		TOTAL LANDINGS IN THIS DIVISION ACCORDING TO ANNUAL STATISTICS		DISCARDED FISH		TOTAL WEIGHT		WHOLE FISH TURNED INTO INDUSTRIAL USE		
SPECIES DISCARDED	METHOD OF HANDLING FISH ON BOARD							PERCENT		TOTAL WEIGHT		PERCENT		
								RECORDED	CALCULATED	RECORDED	CALCULATED	RECORDED	CALCULATED	RECORDED
COD	Stored					82						12.2		10
HADDOCK	on					16						11.1		2
REDFISH	ice					137						3.6		5
HALIBUT														
FLOUNDERS (SPECIFY)														
American plaice						4						0.0		
Witch						491						6.2		30
OTHERS (SPECIFY)						91						12.3		12

RECORDING SYSTEM: Total weight recorded before entering the fish meal plant. The break-down by species is estimated from observation (not recorded).



I C N A F S T A T I S T I C S 4

S T A T I S T I C S O N D I S C A R D S A N D I N D U S T R I A L F I S H

M E T R I C T O N S R O U N D F R E S H

COUNTRY FRANCE St. Pierre et Miquelon		DIVISION 3 0		YEAR 1963		MONTH		TONNAGE CLASS 151-500				
VESSEL OR GEAR TYPE Otter trawls		TOTAL NUMBER OF TRIPS TO THIS DIVISION ACCORDING TO ANNUAL STATISTICS 26.5		DISCARDED FISH		TOTAL WEIGHT		PERCENT		WHOLE FISH TURNED INTO INDUSTRIAL USE		
SPECIES DISCARDED	METHOD OF HANDLING FISH ON BOARD	MAXIMUM SIZE OF FISH NOT RETAINED FOR HUMAN CONSUMPTION	LANDINGS FOR WHICH DISCARDS HAVE BEEN RECORDED IN THE DIVISION	TOTAL LANDINGS IN THIS DIVISION ACCORDING TO ANNUAL STATISTICS	PERCENT		TOTAL WEIGHT		PERCENT		TOTAL WEIGHT	
					RECORDED	CALCULATED	RECORDED	CALCULATED	RECORDED	CALCULATED	RECORDED	CALCULATED
COD	Stored			791								
HADDOCK	on			937						8.1		64
REDFISH	ice			549						6.1		57
HALIBUT				24						2.6		14
FLOWNERS (SPECIFY) American plaice				80						0.0		
Witch				304						0.0		20
OTHERS (SPECIFY)				316						2.2		7

RECORDING SYSTEM: Total weight recorded before entering the fish meal plant. The break-down by species is estimated from observation (not recorded)

ICNAF STATISTICS 4

STATISTICS ON DISCARDS AND INDUSTRIAL FISH

METRIC TONS ROUND FRESH

COUNTRY FRANCE St.Pierre et Miquelon		DIVISION 3L	YEAR 1963	MONTH	TONNAGE CLASS 151-500		
VESSEL OR GEAR TYPE Other trawlers		TOTAL NUMBER OF TRIPS TO THIS DIVISION ACCORDING TO ANNUAL STATISTICS 13.2					
SPECIES DISCARDED	METHOD OF HANDLING FISH ON BOARD	LANDINGS FOR WHICH DISCARDS HAVE BEEN RECORDED IN THE DIVISION	TOTAL LANDINGS IN THIS DIVISION ACCORDING TO ANNUAL STATISTICS	DISCARDED FISH		WHOLE FISH TURNED INTO INDUSTRIAL USE	
				PERCENT		PERCENT	
				RECORDED	CALCULATED	RECORDED	CALCULATED
COD	Stored		643			10.6	68
HADDOCK	on		26			0.0	
REDFISH	ice		94			11.7	11
HALIBUT			1			0.0	
FLOUNDERS (SPECIFY American plaice)			9			0.0	
Witch			570			11.4	65
OTHERS (SPECIFY)			163			5.6	9

RECORDING SYSTEM: Total weight recorded before entering the fish meal plant. The break-down by species is estimated from observation (not recorded).

ICNAF STATISTICS 4

STATISTICS ON DISCARDS AND INDUSTRIAL FISH

METRIC TONS ROUND FRESH

COUNTRY FRANCE St. Pierre et Miquelon		DIVISION 3Ps		YEAR 1963		MONTH		TONNAGE CLASS 151-500						
VESSEL OR GEAR TYPE Otter trawls		TOTAL NUMBER OF TRIPS TO THIS DIVISION ACCORDING TO ANNUAL STATISTICS 18.8												
SPECIES DISCARDED	METHOD OF HANDLING FISH ON BOARD	MAXIMUM SIZE OF FISH NOT RETAINED FOR HUMAN CONSUMPTION	LANDINGS FOR WHICH DISCARDS HAVE BEEN RECORDED IN THE DIVISION	TOTAL LANDINGS IN THIS DIVISION ACCORDING TO ANNUAL STATISTICS	DISCARDED FISH		TOTAL WEIGHT		WHOLE FISH TURNED INTO INDUSTRIAL USE					
					PERCENT		RECORDED		CALCULATED		PERCENT			
					RECORDED	CALCULATED	RECORDED	CALCULATED	RECORDED	CALCULATED	RECORDED	CALCULATED		
COD	Stored			645						2.5				16
HADDOCK	On			158						1.7				3
REDFISH	Ice			323						4.4				14
HALIBUT				18						2.6				1
FLOUNDERS (SPECIFY American plaice)				208						13.5				28
Witch				131						2.3				3
OTHERS (SPECIFY)				121						6.6				8

RECORDING SYSTEM: Total weight recorded before entering the fish meal plant. The break-down by species is estimated from observation (not recorded)

JCNF STATISTICS 4

STATISTICS ON DISCARDS AND INDUSTRIAL FISH

METRIC TONS ROUND FRESH

COUNTRY	Germany	DIVISION 1B-1F (mostly 1B)	YEAR	1963	MONTH	November	TOTAL NUMBER OF TRIPS TO THIS DIVISION ACCORDING TO ANNUAL STATISTICS		WHOLE FISH TURNED INTO INDUSTRIAL USE						
							21	24	PERCENT		TOTAL WEIGHT				
VESSEL OR GEAR TYPE		Trawl		DISCARDED FISH		DISCARDED FISH		DISCARDED FISH		DISCARDED FISH		DISCARDED FISH			
NUMBER OF TRIPS FOR WHICH DISCARDS HAVE BEEN RECORDED IN THE DIVISION		MAXIMUM SIZE OF FISH NOT RETAINED FOR HUMAN CONSUMPTION		LANDINGS FOR WHICH DISCARDS HAVE BEEN RECORDED IN THE DIVISION		TOTAL LANDINGS IN THIS DIVISION ACCORDING TO ANNUAL STATISTICS		RECORDED		CALCULATED		RECORDED		CALCULATED	
SPECIES DISCARDED	METHOD OF HANDLING FISH ON BOARD	SIZE OF FISH NOT RETAINED FOR HUMAN CONSUMPTION	LANDINGS FOR WHICH DISCARDS HAVE BEEN RECORDED IN THE DIVISION	TOTAL LANDINGS IN THIS DIVISION ACCORDING TO ANNUAL STATISTICS	RECORDED	CALCULATED	RECORDED	CALCULATED	RECORDED	CALCULATED	RECORDED	CALCULATED	RECORDED	CALCULATED	
COD	combined	53 cm	4937	5353			5.4		5.4		283		311		
HADDOCK			0	0											
REDFISH		32 cm	2421	2625			5.1		5.1		129		142		
HALIBUT															
FLOUNDERS (SPECIFY)															
OTHERS (SPECIFY)			952	1042			43.0		43.1		718		788		
not known															
mainly other spec.															
TOTAL			8310	9020			12.0		12.1		1130		1241		

RECORDING SYSTEM: From questionnaires distributed amongst masters of the fishing fleet.

ICNAF STATISTICS 4

STATISTICS ON DISCARDS AND INDUSTRIAL FISH

METRIC TONS ROUND FRESH

COUNTRY	Germany	DIVISION 1B-1F (mostly 1B & 1C)	YEAR	1963	MONTH	December						
VESSEL OR GEAR TYPE	Trawl											
NUMBER OF TRIPS FOR WHICH DISCARDS HAVE BEEN RECORDED IN THE DIVISION	17											
SPECIES DISCARDED	METHOD OF HANDLING FISH ON BOARD	MAXIMUM SIZE OF FISH NOT RETAINED FOR HUMAN CONSUMPTION	LANDINGS FOR WHICH DISCARDS HAVE BEEN RECORDED IN THE DIVISION	TOTAL LANDINGS IN THIS DIVISION ACCORDING TO ANNUAL STATISTICS	DISCARDED FISH		TOTAL WEIGHT		WHOLE FISH TURNED INTO INDUSTRIAL USE			
					PERCENT RECORDED	PERCENT CALCULATED	RECORDED	CALCULATED	RECORDED	CALCULATED		
COD	combined	45 cm	6757	9450	0.7	0.7	55	77	7.3	7.2	538	743
HADDOCK			0	0								
REDFISH		30 cm	1442	2017	-	-	-	-	4.9	4.9	75	104
HALIBUT												
FLOUNDERS (SPECIFY)												
OTHERS (SPECIFY)			989	1370	1.1	1.1	15	21	28.8	28.8	407	562
not known												
mainly other spec.												
TOTAL			9188	12837	0.7	0.7	70	98	9.9	9.8	1020	1409

RECORDING SYSTEM: From questionnaires distributed amongst masters of the fishing fleet.

ICNAF STATISTICS 4

STATISTICS ON DISCARDS AND INDUSTRIAL FISH

METRIC TONS ROUND FRESH

COUNTRY	Germany	DIVISION	1B - 1F (mostly 1C)	YEAR	1963	MONTH	January	TONNAGE CLASS	average 850BRT, range 614-1561		
VESSEL OR GEAR TYPE		Trawl		TOTAL NUMBER OF TRIPS TO THIS DIVISION		57					
NUMBER OF TRIPS FOR WHICH DISCARDS HAVE BEEN RECORDED IN THE DIVISION		40		TOTAL NUMBER OF TRIPS TO THIS DIVISION		57					
SPECIES DISCARDED	METHOD OF HANDLING FISH ON BOARD	MAXIMUM SIZE OF FISH NOT RETAINED FOR HUMAN CONSUMPTION	LANDINGS FOR WHICH DISCARDS HAVE BEEN RECORDED IN THE DIVISION	TOTAL LANDINGS IN THIS DIVISION ACCORDING TO ANNUAL STATISTICS	DISCARDED FISH		TOTAL WEIGHT		WHOLE FISH TURNED INTO INDUSTRIAL USE		
					PERCENT	RECORDED	CALCULATED	RECORDED	CALCULATED	RECORDED	CALCULATED
COD	combined	50 cm	10728	16496	0.8	88	135	5.2	5.3	589	937
HADDOCK			1	1							
REDFISH		29 cm	2487	3824	0.3	8	12	2.2	2.2	55	88
HALIBUT											
FLOUNDERS (SPECIFY)											
OTHERS (SPECIFY)			917	1440	7.9	105	162	23.1	23.4	307	488
not known											
mainly other											
species											
TOTAL			14133	21761	1.3	201	309	6.2	6.4	951	1513

RECORDING SYSTEM: From questionnaires distributed amongst masters of the fishing fleet

ICNAF STATISTICS 4

STATISTICS ON DISCARDS AND INDUSTRIAL FISH

METRIC TONS ROUND FRESH

COUNTRY	Germany	DIVISION	1C - 1F (mostly 1C)	YEAR	1963	MONTH	February					
VESSEL OR GEAR TYPE	Trawl	TOTAL NUMBER OF TRIPS TO THIS DIVISION ACCORDING TO ANNUAL STATISTICS		60								
NUMBER OF TRIPS FOR WHICH DISCARDS HAVE BEEN RECORDED IN THE DIVISION	37	DISCARDED FISH:		WHOLE FISH TURNED INTO INDUSTRIAL USE								
SPECIES DISCARDED	METHOD OF HANDLING FISH ON BOARD	MAXIMUM SIZE OF FISH NOT RETAINED FOR HUMAN CONSUMPTION	LANDINGS FOR WHICH DISCARDS HAVE BEEN RECORDED IN THE DIVISION	TOTAL LANDINGS IN THIS DIVISION ACCORDING TO ANNUAL STATISTICS	PERCENT		TOTAL WEIGHT					
					RECORDED	CALCULATED	RECORDED	CALCULATED	RECORDED	CALCULATED		
COD	combined	46 cm	11058	19182	1.0	1.0	120	208	4.1	5.0	493	1010
Haddock			0	0								
REDFISH		30 cm	1883	3267	0.2	0.2	4	7	2.6	3.1	51	105
HALIBUT												
FLOUNDERS (SPECIFY)												
OTHERS (SPECIFY)			825	1565	1.5	1.3	18	31	31.0	32.7	379	777
not known												
mainly other												
species												
TOTAL			13766	24014	1.0	0.9	142	246	6.2	7.2	923	1892

RECORDING SYSTEM: From questionnaires distributed among masters of the fishing fleet

ICNAF STATISTICS 4

STATISTICS ON DISCARDS AND INDUSTRIAL FISH

METRIC TONS ROUND FRESH

COUNTRY	Germany	DIVISION IC-1F (mostly IC)	YEAR	1963	MONTH	March						
VESSEL OR GEAR TYPE	Trawl	TOTAL NUMBER OF TRIPS TO THIS DIVISION ACCORDING TO ANNUAL STATISTICS					61					
NUMBER OF TRIPS FOR WHICH DISCARDS HAVE BEEN RECORDED IN THE DIVISION	41	DISCARDED FISH					TOTAL WEIGHT					
SPECIES DISCARDED	METHOD OF HANDLING FISH ON BOARD	MAXIMUM SIZE OF FISH NOT RETAINED FOR HUMAN CONSUMPTION	LANDINGS FOR WHICH DISCARDS HAVE BEEN RECORDED IN THE DIVISION	TOTAL LANDINGS IN THIS DIVISION ACCORDING TO ANNUAL STATISTICS	PERCENT		WHOLE FISH TURNED INTO INDUSTRIAL USE					
					RECORDED	CALCULATED	RECORDED	CALCULATED	RECORDED	CALCULATED		
COD	combined	45 cm	10133	15586	0.3	0.3	37	57	5.3	7.1	570	1192
HADDOCK			0	0								
REDFISH		30 cm	4574	7036	0.5	0.5	22	34	3.7	5.0	178	372
HALIBUT												
FLOUNDERS (SPECIFY)												
OTHERS (SPECIFY)			729	1352	5.1	4.0	64	98	37.4	40.6	474	991
not known												
mainly other												
species												
TOTAL			15436	23974	0.7	0.7	123	189	7.3	9.6	1222	2555

RECORDING SYSTEM: From questionnaires distributed amongst masters of the fishing fleet



ICNAF STATISTICS 4

STATISTICS ON DISCARDS AND INDUSTRIAL FISH

METRIC TONS ROUND FRESH

COUNTRY	Germany	DIVISION	IC-1F (mostly 1D)	YEAR	1963	MONTH	August			
VESSEL OR GEAR TYPE	Trawl	TOTAL NUMBER OF TRIPS TO THIS DIVISION ACCORDING TO ANNUAL STATISTICS		22		TONNAGE CLASS average BRT (range 640-1244)				
SPECIES DISCARDED	METHOD OF HANDLING FISH ON BOARD	MAXIMUM SIZE OF FISH NOT RETAINED FOR HUMAN CONSUMPTION	LANDINGS FOR WHICH DISCARDS HAVE BEEN RECORDED IN THE DIVISION	TOTAL LANDINGS IN THIS DIVISION ACCORDING TO ANNUAL STATISTICS	DISCARDED FISH		WHOLE FISH TURNED INTO INDUSTRIAL USE			
					PERCENT	TOTAL WEIGHT	PERCENT	TOTAL WEIGHT		
					RECORDED	CALCULATED	RECORDED	CALCULATED		
COD	combined	50 cm	9257	9863			3.3	3.7	313	377
Haddock			1	1						
REDFISH		30 cm	2807	2991			4.8	5.3	140	168
HALIBUT										
FLOUNDERS (SPECIFY)										
OTHERS (SPECIFY)			1168	1379			52.2	52.7	1276	1535
not known										
mainly other spec.										
TOTAL			13233	14234			11.6	12.7	1729	2080

RECORDING SYSTEM: From questionnaires distributed amongst masters of the fishing fleet.

ICNAF STATISTICS 4

STATISTICS ON DISCARDS AND INDUSTRIAL FISH

METRIC TONS ROUND FRESH

COUNTRY	Germany	DIVISION	IC-IF (mostly ID)	YEAR	1963	MONTH	September	
VESSEL OR GEAR TYPE	Trawl	TONNAGE CLASS average 818BRT (range 719-999)						
NUMBER OF TRIPS FOR WHICH DISCARDS HAVE BEEN RECORDED IN THE DIVISION		7		TOTAL NUMBER OF TRIPS TO THIS DIVISION ACCORDING TO ANNUAL STATISTICS				
SPECIES DISCARDED	METHOD OF HANDLING FISH ON BOARD	MAXIMUM SIZE OF FISH NOT RETAINED FOR HUMAN CONSUMPTION	LANDINGS FOR WHICH DISCARDS HAVE BEEN RECORDED IN THE DIVISION	TOTAL LANDINGS IN THIS DIVISION ACCORDING TO ANNUAL STATISTICS	DISCARDED FISH		WHOLE FISH TURNED INTO INDUSTRIAL USE	
					PERCENT	TOTAL WEIGHT	PERCENT	TOTAL WEIGHT
					RECORDED	CALCULATED	RECORDED	CALCULATED
COD	combined	not known	3327	4882			168	292
Haddock			0	0			-	-
Redfish		29 cm	864	1268			185	321
Halibut								
Flounders (Specify)								
Others (Specify)			430	732	8	12	288	500
not known								
mainly other species								
TOTAL			4621	6882	8	12	641	1113

RECORDING SYSTEM: From questionnaires distributed amongst masters of the fishing fleet.

A C N A F S T A T I S T I C S 4

STATISTICS ON DISCARDS AND INDUSTRIAL FISH

METRIC TONS ROUND FRESH

COUNTRY	Germany	DIVISION 1B-1F (mostly 1D)	YEAR 1963	MONTH October	TONNAGE CLASS average 909, range 716-999							
VESSEL OR GEAR TYPE	Trawl	TOTAL NUMBER OF TRIPS TO THIS DIVISION ACCORDING TO ANNUAL STATISTICS 16										
SPECIES DISCARDED	METHOD OF HANDLING FISH ON BOARD	MAXIMUM SIZE OF FISH NOT RETAINED FOR HUMAN CONSUMPTION	LANDINGS FOR WHICH DISCARDS HAVE BEEN RECORDED IN THE DIVISION	TOTAL LANDINGS IN THIS DIVISION ACCORDING TO ANNUAL STATISTICS	DISCARDED FISH		TOTAL WEIGHT		WHOLE FISH TURNED INTO INDUSTRIAL USE			
					PERCENT		TOTAL WEIGHT		PERCENT			
					RECORDED	CALCULATED	RECORDED	CALCULATED	RECORDED	CALCULATED	RECORDED	CALCULATED
COB	combined	52 cm	3092	3799					1.0	1.0	30	37
HADDOCK			1	1					0	0		
REDFISH		31	1094	1344					4.8	4.8	55	68
HALIBUT												
FLOUNDERS (SPECIFY)												
OTHERS (SPECIFY)												
not known												
mainly other spec.												
TOTAL			4609	5631					36.9	38.4	247	303
									6.7	6.8	332	408

RECORDING SYSTEM: From questionnaires distributed amongst masters of the fishing fleet.

ICNAF STATISTICS 4

STATISTICS ON DISCARDS AND INDUSTRIAL FISH

METRIC TONS ROUND FRESH

COUNTRY	Germany	DIVISION	1C-1F (mostly 1D & 1E)	YEAR	1963	MONTH	July	TONNAGE CLASS average 928BRT (range 566-1222)				
VESSEL OR GEAR TYPE	Trawl	31		37		TOTAL NUMBER OF TRIPS TO THIS DIVISION ACCORDING TO ANNUAL STATISTICS						
SPECIES DISCARDED	METHOD OF HANDLING FISH ON BOARD	MAXIMUM SIZE OF FISH NOT RETAINED FOR HUMAN CONSUMPTION	LANDINGS FOR WHICH DISCARDS HAVE BEEN RECORDED IN THE DIVISION	TOTAL LANDINGS IN THIS DIVISION ACCORDING TO ANNUAL STATISTICS	DISCARDED FISH		TOTAL WEIGHT		WHOLE FISH TURNED INTO INDUSTRIAL USE			
					PERCENT RECORDED	PERCENT CALCULATED	RECORDED	CALCULATED	RECORDED	CALCULATED		
COD	combined	53 cm	14532	15700	1.4	1.4	208	225	1.1	1.0	160	163
HADDOCK			0	0								
REDFISH		29 cm	4340	4689	1.3	1.3	62	67	4.5	4.2	207	210
HALIBUT												
FLOUNDERS (SPECIFY)												
OTHERS (SPECIFY)			1676	1719	0.7	0.7	20	22	43.2	42.9	1288	1310
not known												
mainly other spec.												
TOTAL			20548	22108	1.3	1.3	290	314	7.4	7.0	1655	1683

RECORDING SYSTEM: From questionnaires distributed amongst masters of the fishing fleet.

ICNAF STATISTICS 4

STATISTICS ON DISCARDS AND INDUSTRIAL FISH

METRIC TONS ROUND FRESH

COUNTRY	Germany	DIVISION IC-IF (mostly IE)	YEAR 1963	MONTH April	TOTAL NUMBER OF TRIPS TO THIS DIVISION ACCORDING TO ANNUAL STATISTICS		DISCARDED FISH		TOTAL WEIGHT		WHOLE FISH TURNED INTO INDUSTRIAL USE	
					VESEL OR GEAR TYPE Trawl	50	PERCENT	RECORDED	CALCULATED	RECORDED	CALCULATED	RECORDED
NUMBER OF TRIPS FOR WHICH DISCARDS HAVE BEEN RECORDED IN THE DIVISION		33		TOTAL NUMBER OF TRIPS TO THIS DIVISION ACCORDING TO ANNUAL STATISTICS		DISCARDED FISH		TOTAL WEIGHT		WHOLE FISH TURNED INTO INDUSTRIAL USE		
SPECIES DISCARDED	METHOD OF HANDLING FISH ON BOARD	MAXIMUM SIZE OF FISH NOT RETAINED FOR HUMAN CONSUMPTION	LANDINGS FOR WHICH DISCARDS HAVE BEEN RECORDED IN THE DIVISION	TOTAL LANDINGS IN THIS DIVISION ACCORDING TO ANNUAL STATISTICS	RECORDED	CALCULATED	RECORDED	CALCULATED	RECORDED	CALCULATED	RECORDED	CALCULATED
COD	combined	47 cm	6277	9692	1.4	1.4	92	142	6.3	5.9	430	620
HADDOCK			0	0								
REDFISH		29 cm	5988	9246	0.4	0.4	26	40	2.1	2.0	130	187
HALIBUT												
FLOUNDERS (SPECIFY)												
OTHERS (SPECIFY)			922	1363	1.9	2.0	28	43	36.4	35.8	543	783
not known												
mainly other												
species												
TOTAL			13187	20301	1.0	1.0	146	225	7.6	7.2	1103	1590

RECORDING SYSTEM: From questionnaires distributed amongst masters of the fishing fleet

J C N A F S T A T I S T I C S 4

STATISTICS ON DISCARDS AND INDUSTRIAL FISH

METRIC TONS ROUND FRESH

COUNTRY	Germany	DIVISION	IC-1F (mostly 1E)	YEAR	1963	MONTH	May					
VESSEL OR GEAR TYPE	Trawl	TOTAL NUMBER OF TRIPS TO THIS DIVISION ACCORDING TO ANNUAL STATISTICS										
NUMBER OF TRIPS FOR WHICH DISCARDS HAVE BEEN RECORDED IN THE DIVISION		27										
SPECIES DISCARDED	METHOD OF HANDLING FISH ON BOARD	MAXIMUM SIZE OF FISH NOT RETAINED FOR HUMAN CONSUMPTION	LANDINGS FOR WHICH DISCARDS HAVE BEEN RECORDED IN THE DIVISION	TOTAL LANDINGS IN THIS DIVISION ACCORDING TO ANNUAL STATISTICS	DISCARDED FISH		TOTAL WEIGHT		WHOLE FISH TURNED INTO INDUSTRIAL USE			
					PERCENT RECORDED	PERCENT CALCULATED	RECORDED	CALCULATED	RECORDED	CALCULATED		
COD	combined	53 cm	5825	7857	0.4	0.4	24	32	4.6	4.2	280	350
HADDOCK			0	0								
REDFISH		29 cm	2303	3106	0.8	0.8	19	26	4.3	4.0	105	131
HALIBUT												
FLOUNDERS (SPECIFY)												
OTHERS (SPECIFY)			630	804	1.6	1.8	16	22	34.7	34.2	343	429
not known												
mainly other spec.												
TOTAL			8758	11767	0.6	0.6	59	80	7.6	7.1	728	910

RECORDING SYSTEM: From questionnaires distributed amongst masters of the fishing fleet

ICNAF STATISTICS 4

STATISTICS ON DISCARDS AND INDUSTRIAL FISH

METRIC TONS ROUND FRESH

COUNTRY	Germany	DIVISION IC-IF (mostly IE)	YEAR	1963	MONTH	June	TOTAL NUMBER OF TRIPS TO THIS DIVISION ACCORDING TO ANNUAL STATISTICS		WHOLE FISH TURNED INTO INDUSTRIAL USE							
							25	41	DISCARDED FISH		TOTAL WEIGHT		PERCENT		TOTAL WEIGHT	
VESSEL OR GEAR TYPE	Trawl								RECORDED	CALCULATED	RECORDED	CALCULATED	RECORDED	CALCULATED	RECORDED	CALCULATED
SPECIES DISCARDED	METHOD OF HANDLING FISH ON BOARD	MAXIMUM SIZE OF FISH NOT RETAINED FOR HUMAN CONSUMPTION	LANDINGS FOR WHICH DISCARDS HAVE BEEN RECORDED IN THE DIVISION	LANDINGS FOR WHICH DISCARDS HAVE BEEN RECORDED IN THE DIVISION	TOTAL LANDINGS IN THIS DIVISION ACCORDING TO ANNUAL STATISTICS	PERCENT RECORDED	PERCENT CALCULATED	RECORDED	CALCULATED	RECORDED	CALCULATED	RECORDED	CALCULATED	RECORDED	CALCULATED	
COD	combined	49 cm	16644	3	21424	0.1	0.1	23	30	2.5	2.0	435	444			
HADDOCK				4		-	-	-	-	-	-	-	-			
REDFISH		30 cm	684		880	2.1	2.1	18	23	18.9	15.6	164	167			
HALIBUT																
FLOUNDERS (SPECIFY)																
OTHERS (SPECIFY)			1110		1157	0.3	0.4	5	6	27.2	26.8	417	426			
not known																
mainly other spec.																
TOTAL			18441		23465	0.2	0.2	46	59	5.2	4.2	1016	1037			

RECORDING SYSTEM: From questionnaires distributed amongst masters of the fishing fleet.

ICNAF STATISTICS 4

STATISTICS ON DISCARDS AND INDUSTRIAL FISH

METRIC TONS ROUND FRESH

COUNTRY	Germany	DIVISION	3K	YEAR	1963	MONTH	October	TONNAGE CLASS	640 BRT			
VESSEL OR GEAR TYPE		Trawl		TOTAL NUMBER OF TRIPS TO THIS DIVISION ACCORDING TO ANNUAL STATISTICS								
NUMBER OF TRIPS FOR WHICH DISCARDS HAVE BEEN RECORDED IN THE DIVISION		1		1								
SPECIES DISCARDED	METHOD OF HANDLING FISH ON BOARD	MAXIMUM SIZE OF FISH NOT RETAINED FOR HUMAN CONSUMPTION	LANDINGS FOR WHICH DISCARDS HAVE BEEN RECORDED IN THE DIVISION	TOTAL LANDINGS IN THIS DIVISION ACCORDING TO ANNUAL STATISTICS	DISCARDED FISH		TOTAL WEIGHT		WHOLE FISH TURNED INTO INDUSTRIAL USE			
					PERCENT RECORDED	PERCENT CALCULATED	RECORDED	CALCULATED	RECORDED	CALCULATED		
COD	combined	not known	21	21					65.6	65.6	40	40
HADDOCK			-	-								
REDFISH		30 cm	152	152					18.7	18.7	35	35
HALIBUT												
FLOUNDERS (SPECIFY)												
OTHERS (SPECIFY)			24	24					0	0		
not known												
mainly other spec.												
TOTAL			197	197					27.6	27.6	75	75

RECORDING SYSTEM: From questionnaires distributed amongst masters of the fishing fleet.



ICNAF STATISTICS 4

STATISTICS ON DISCARDS AND INDUSTRIAL FISH

METRIC TONS ROUND FRESH

COUNTRY	Germany	DIVISION	3K	YEAR	1963	MONTH	December	TONNAGE CLASS			
VESSEL OR GEAR TYPE		Trawl									
NUMBER OF TRIPS FOR WHICH DISCARDS HAVE BEEN RECORDED IN THE DIVISION		TOTAL LANDINGS IN THIS DIVISION ACCORDING TO ANNUAL STATISTICS		DISCARDED FISH		TOTAL WEIGHT		WHOLE FISH TURNED INTO INDUSTRIAL USE			
SPECIES DISCARDED	METHOD OF HANDLING FISH ON BOARD	MAXIMUM SIZE OF FISH NOT RETAINED FOR HUMAN CONSUMPTION	LANDINGS FOR WHICH DISCARDS HAVE BEEN RECORDED IN THE DIVISION	PERCENT RECORDED	CALCULATED	RECORDED	CALCULATED	RECORDED	CALCULATED		
										PERCENT RECORDED	RECORDED
COD	combined	not known	38			43		34.5	35.8	20	24
Haddock											
REDFISH		30 cm	167			187		10.7	11.4	20	24
HALIBUT											
FLOUNDERS (SPECIFY)											
OTHERS (SPECIFY)			26			30		69.8	70.6	60	72
not known											
mainly other spec.											
TOTAL			231			260		30.2	31.6	100	120

RECORDING SYSTEM: From questionnaires distributed amongst masters of the fishing fleet.

ICNAF STATISTICS 4

STATISTICS ON DISCARDS AND INDUSTRIAL FISH

METRIC TONS ROUND FRESH

COUNTRY	Germany	DIVISION	3L	YEAR	1963	MONTH	June	TONNAGE CLASS	936 BRT	
VESSEL OR GEAR TYPE	Trawl									
NUMBER OF TRIPS FOR WHICH DISCARDS HAVE BEEN RECORDED IN THE DIVISION	1									
SPECIES DISCARDED	METHOD OF HANDLING FISH ON BOARD	MAXIMUM SIZE OF FISH NOT RETAINED FOR HUMAN CONSUMPTION	LANDINGS FOR WHICH DISCARDS HAVE BEEN RECORDED IN THE DIVISION	TOTAL LANDINGS IN THIS DIVISION ACCORDING TO ANNUAL STATISTICS	DISCARDED FISH		TOTAL WEIGHT		WHOLE FISH TURNED INTO INDUSTRIAL USE	
					PERCENT RECORDED	PERCENT CALCULATED	RECORDED	CALCULATED	RECORDED	CALCULATED
COD	headed	not known	450	450						
HADDOCK	deep	"	13	13						
REDFISH	frozen									
HALIBUT										
FLOUNDERS (SPECIFY)										
OTHERS (SPECIFY)			32	32				55.6	40	40
not known										
mainly other spec.										
TOTAL			495	495			7.5	7.5	40	40

RECORDING SYSTEM: From questionnaires distributed amongst masters of the fishing fleet.

ICNAF STATISTICS 4

STATISTICS ON DISCARDS AND INDUSTRIAL FISH

METRIC TONS ROUND FRESH

COUNTRY	Germany	DIVISION	4V	YEAR	1963	MONTH	May	TONNAGE CLASS	936 BRT	
VESSEL OR GEAR TYPE		Trawl		TOTAL NUMBER OF TRIPS TO THIS DIVISION ACCORDING TO ANNUAL STATISTICS		1				
NUMBER OF TRIPS FOR WHICH DISCARDS HAVE BEEN RECORDED IN THE DIVISION		1		DISCARDED FISH		TOTAL WEIGHT		WHOLE FISH TURNED INTO INDUSTRIAL USE		
SPECIES DISCARDED	METHOD OF HANDLING FISH ON BOARD	LANDINGS FOR WHICH DISCARDS HAVE BEEN RECORDED IN THE DIVISION	TOTAL LANDINGS IN THIS DIVISION ACCORDING TO ANNUAL STATISTICS	PERCENT		TOTAL WEIGHT		PERCENT		
				RECORDED	CALCULATED	RECORDED	CALCULATED	RECORDED	CALCULATED	
COO	headed	78	78			56.2		56.2	100	100
Haddock	deep/	234	234							
Redfish	frozen	3	3			76.9		76.9	10	10
Halibut										
Flounders (Specify)										
Coalfish		69	69							
Others (Specify)		56	56			41.7		41.7	40	40
not known,										
mainly oth. spec.										
TOTAL		440	440			25.4		25.4	150	150

RECORDING SYSTEM: From questionnaires distributed amongst masters of the fishing fleet.

LCNAF STATISTICS 4

STATISTICS ON DISCARDS AND INDUSTRIAL FISH

METRIC TONS ROUND FRESH

COUNTRY	Germany	DIVISION	4W	YEAR	1963	MONTH	April	TONNAGE CLASS	941 BRT		
VESSEL OR GEAR TYPE		Trawl		TOTAL NUMBER OF TRIPS TO THIS DIVISION ACCORDING TO ANNUAL STATISTICS							
NUMBER OF TRIPS FOR WHICH DISCARDS HAVE BEEN RECORDED IN THE DIVISION		1		DISCARDED FISH		TOTAL WEIGHT		WHOLE FISH TURNED INTO INDUSTRIAL USE			
SPECIES DISCARDED	METHOD OF HANDLING FISH ON BOARD	LANDINGS FOR WHICH DISCARDS HAVE BEEN RECORDED IN THE DIVISION	TOTAL LANDINGS IN THIS DIVISION ACCORDING TO ANNUAL STATISTICS	PERCENT		TOTAL WEIGHT		PERCENT			
				RECORDED	CALCULATED	RECORDED	CALCULATED	RECORDED	CALCULATED		
COD	filleted	94	94					5.1	5.1	5	5
Haddock	deep	769	769					2.5	2.5	20	20
REDFISH	frozen	-	-								
HALIBUT											
FLOUNDERS (SPECIFY)											
Coalfish		24	24					38.5	38.5	15	15
OTHERS (SPECIFY)		100	100					-	-	-	-
not known											
mainly other											
spec.											
TOTAL		987	987					3.9	3.9	40	40

RECORDING SYSTEM: From questionnaires distributed amongst masters of the fishing fleet.

ICNAF STATISTICS 4

STATISTICS ON DISCARDS AND INDUSTRIAL FISH

METRIC TONS ROUND FRESH

COUNTRY Canada (Maritimes & Que)		DIVISION 3L	YEAR 1962	MONTH June						
VESSEL OR GEAR TYPE Otter Trawl		TONNAGE CLASS 151-500								
NUMBER OF TRIPS FOR WHICH DISCARDS HAVE BEEN RECORDED IN THE DIVISION 1		TOTAL NUMBER OF TRIPS TO THIS DIVISION ACCORDING TO ANNUAL STATISTICS Unknown								
SPECIES DISCARDED	METHOD OF HANDLING FISH ON BOARD	MAXIMUM SIZE OF FISH NOT RETAINED FOR HUMAN CONSUMPTION	LANDINGS FOR WHICH DISCARDS HAVE BEEN RECORDED IN THE DIVISION	TOTAL LANDINGS IN THIS DIVISION ACCORDING TO ANNUAL STATISTICS	DISCARDED FISH		TOTAL WEIGHT		WHOLE FISH TURNED INTO INDUSTRIAL USE	
					PERCENT	RECORDED	CALCULATED	RECORDED	CALCULATED	RECORDED
COD	Iced	46 cm	5	607	12		73	0		0
HADDOCK										
REDFISH										
PALIBUT										
FLOUNDERS (SPECIFY)										
PLAICE	Iced	39 cm	51	*1266	22		278	0		0
OTHERS (SPECIFY)										

RECORDING SYSTEM: Observer on board.

\*Includes landings OT: 0-500 gross tons  
LL: 25-500 gross tons

LCNAF STATISTICS 4

STATISTICS ON DISCARDS AND INDUSTRIAL FISH

METRIC TONS ROUND FRESH

COUNTRY Canada (Maritimes & Que.)		DIVISION 4T		YEAR 1962		MONTH July		TONNAGE CLASS 26-50				
VESSEL OR GEAR TYPE Otter trawl		NUMBER OF TRIPS FOR WHICH DISCARDS HAVE BEEN RECORDED IN THE DIVISION 4		TOTAL NUMBER OF TRIPS TO THIS DIVISION ACCORDING TO ANNUAL STATISTICS		DISCARDED FISH		WHOLE FISH TURNED INTO INDUSTRIAL USE				
SPECIES DISCARDED	METHOD OF HANDLING FISH ON BOARD	MAXIMUM SIZE OF FISH NOT RETAINED FOR HUMAN CONSUMPTION	LANDINGS FOR WHICH DISCARDS HAVE BEEN RECORDED IN THE DIVISION	TOTAL LANDINGS IN THIS DIVISION ACCORDING TO ANNUAL STATISTICS	PERCENT		TOTAL WEIGHT		PERCENT		TOTAL WEIGHT	
					RECORDED	CALCULATED	RECORDED	CALCULATED	RECORDED	CALCULATED	RECORDED	CALCULATED
COD	Iced	49 cm	21	4012	7				280	0		0
HADDOCK	Iced	None	20	75	0				0	0		0
REDFISH												
HALIBUT												
FLOUNDERS (SPECIFY)												
Plaice	Iced		7	*611	9				55	0		0
W.Flooun.	Iced	32 cm	13	*176	9				16	0		0
OTHERS (SPECIFY)												

RECORDING SYSTEM: Observer on board 1 trip & special wastage records 3 trips.

\*Includes landings OT: 0-500 gross tons  
 Da.S.: 0-500 gross tons  
 LL: 26-500 gross tons

I C N A F S T A T I S T I C S 4

S T A T I S T I C S O N D I S C A R D S A N D I N D U S T R I A L F I S H

METRIC TONS ROUND FRESH

COUNTRY Canada (Maritimes & Que.)		DIVISION 4Vn-4W		YEAR 1962		MONTH July		TONNAGE CLASS 151-500	
VESSEL OR GEAR TYPE Otter trawl		TOTAL NUMBER OF TRIPS TO THIS DIVISION ACCORDING TO ANNUAL STATISTICS Not known							
NUMBER OF TRIPS FOR WHICH DISCARDS HAVE BEEN RECORDED IN THE DIVISION		DISCARDED FISH		TOTAL WEIGHT		WHOLE FISH TURNED INTO INDUSTRIAL USE		TOTAL WEIGHT	
SPECIES DISCARDED	METHOD OF HANDLING FISH ON BOARD	MAXIMUM SIZE OF FISH NOT RETAINED FOR HUMAN CONSUMPTION	LANDINGS FOR WHICH DISCARDS HAVE BEEN RECORDED IN THE DIVISION	TOTAL LANDINGS IN THIS DIVISION ACCORDING TO ANNUAL STATISTICS	PERCENT		PERCENT		CALCULATED
					RECORDED	CALCULATED	RECORDED	CALCULATED	
COD	Iced	49 cm	33	445	7		31	0	0
HADDOCK									
REDFISH									
HALIBUT									
FLOUNDERS (SPECIFY)									
OTHERS (SPECIFY)									

RECORDING SYSTEM: Observer on board

ICNAF STATISTICS 4

STATISTICS ON DISCARDS AND INDUSTRIAL FISH

METRIC TONS ROUND FRESH

COUNTRY Canada (Maritimes & Que.)		DIVISION 4W		YEAR 1962		MONTH July		TONNAGE CLASS 151-500											
VESSEL OR GEAR TYPE Otter trawl		TOTAL NUMBER OF TRIPS TO THIS DIVISION ACCORDING TO ANNUAL STATISTICS																	
NUMBER OF TRIPS FOR WHICH DISCARDS HAVE BEEN RECORDED IN THE DIVISION		DISCARDED FISH		TOTAL WEIGHT		PERCENT		WHOLE FISH TURNED INTO INDUSTRIAL USE											
SPECIES DISCARDED	METHOD OF HANDLING FISH ON BOARD	LANDINGS FOR WHICH DISCARDS HAVE BEEN RECORDED IN THE DIVISION	TOTAL LANDINGS IN THIS DIVISION ACCORDING TO ANNUAL STATISTICS	PERCENT		TOTAL WEIGHT		PERCENT											
				RECORDED	CALCULATED	RECORDED	CALCULATED	RECORDED	CALCULATED	RECORDED	CALCULATED								
COD																			
HADDOCK	Iced	7	760	23		175		0											0
REDFISH																			
HALIBUT																			
FLOUNDERS (SPECIFY)																			
OTHERS (SPECIFY)																			

Not recorded

RECORDING SYSTEM: Observer on board



STATISTICS ON DISCARDS AND INDUSTRIAL FISH

METRIC TONS ROUND FRESH

COUNTRY Canada (Maritimes & Que.)		DIVISION 4X		YEAR 1962		MONTH June		TONNAGE CLASS 0-25				
VESSEL OR GEAR TYPE Otter trawl		NUMBER OF TRIPS FOR WHICH DISCARDS HAVE BEEN RECORDED IN THE DIVISION 9		TOTAL NUMBER OF TRIPS TO THIS DIVISION ACCORDING TO ANNUAL STATISTICS		DISCARDED FISH		WHOLE FISH TURNED INTO INDUSTRIAL USE				
SPECIES DISCARDED	METHOD OF HANDLING FISH ON BOARD	MAXIMUM SIZE OF FISH NOT RETAINED FOR HUMAN CONSUMPTION	LANDINGS FOR WHICH DISCARDS HAVE BEEN RECORDED IN THE DIVISION	TOTAL LANDINGS IN THIS DIVISION ACCORDING TO ANNUAL STATISTICS	PERCENT		TOTAL WEIGHT		PERCENT		TOTAL WEIGHT	
					RECORDED	CALCULATED	RECORDED	CALCULATED	RECORDED	CALCULATED	RECORDED	CALCULATED
COD	Round fresh	40 cm	1	107	5		5	0		0		0
HADDOCK	"	40 cm	9	510	12		61	0				0
REDFISH												
HALIBUT												
FLOUNDERS (SPECIFY)												
Winter												
Fl.	"	35 cm	1	*67	8		5	0				0
OTHERS (SPECIFY)												
Pollock	"	-	1	*2632	0		0	0				0
Catfish	"	-	Less than	*100	0		0	0				0
			1									

RECORDING SYSTEM: Observer on board, 6 trips  
 Discards saved and landed 3 trips  
 \*Includes landings OT: 0-500 gross tons  
 LL: 26-500 gross tons