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Summary of Statistics on Discards and Industrial Fish
(ICNAF Statistics Form 4), 1968

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At their 1968 meetings, the Subcommittee on Statistics and the Standing Committee on Research and Statistics recommended:

"that the discard and industrial fish summary should be prepared annually." (Redbook 1968, Pt.1, p.72)

Statistics on species and quantities of whole fish discarded at sea (discards) in 1968 from Canada (M), Canada (N), France (M), Germany, Poland, Portugal, Spain, UK and USA are summarized in Part A of the attached table. Statistics on species and quantities of whole fish reduced to fish meal and oil at sea (industrial) in 1968 from Germany, Poland, Portugal and USSR are summarized in Part B of the table.

Denmark (G) submitted a NIL return. Denmark (F), Iceland and Norway did not report their data. Italy did not fish in the Convention Area in 1968. France (M) reported partly data on industrial fish and stated that fish meal production at sea reached 1941 tons. In addition to its tabulated submissions Canada (M) wrote "It remains normal practice to discard 100% of all silver hake, argentines, sculpins, lumpfish, sea robins, eelpouts and dogfish. Skates are landed occasionally but are normally discarded 100%. Some attempts were made to land and market anglers but this met with little success and most would be discarded. Discards by longliners and gill netters of commercial species of groundfish is negligible. Discards of pollock, hake and cusk by otter trawlers are also low."

ABBREVIATIONS AND SYMBOLS USED
(as in latest Statistical Bulletin)

Species:	Gre	- Greenland halibut
	Had	- haddock
	Red	- redfish
	Sil	- silver hake
	Flo	- flounders
	Pla or (p)	- American plaice
	Wit or (w)	- witch
	Yel or (y)	- yellowtail flounder
	Gro	- groundfish
	Pol	- pollock
	Her	- herring
	Sha	- sharks
	Ska	- skates
	Sme	- smelt
	Shr	- shrimp
	Mix	- mixed
NK	- not known	
Gear:	OT	- otter trawl
	OT.Si	- otter trawl, side
	OT.St	- otter trawl, stern
	PT	- pair trawl
	DS	- Danish seine
	SS	- Scottish seine
Tonnage Class:	1	0 - 50 GRT
	1b	26 - 50 GRT
	2	51 - 150 GRT
	3	151 - 500 GRT
	4	501 - 900 GRT
	5	901 - 1800 GRT
6	over 1800 GRT	
Country:	Can (M)	- Canada (Maritime and Quebec)
	Can (N)	- Canada (Newfoundland)
	Fr (M)	- France (Metropolitan)
	Fr (SP)	- France (St. Pierre et Miquelon)
	Ger	- Germany
	Pol	- Poland
	Por	- Portugal
Spa	- Spain	
Source of information:	Log	- logbook
	Int	- dockside interview
	Rep	- reports by captain
Symbols:	...	- not available or not reported
	-	- magnitude known to be nil or zero
	0	- magnitude known to be more than zero but less than half the unit

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
2H	Cod	OT 4-6	Ger	28	6092	0	0	2	-	100	5	NK	106	5	Rep	100						
	Cod	OT.St 6	Por	66	8600	1					42	NK	-	100	Log	100						
2J	Cod	OT.S1 6	Fr (M)	27	462	6																
	Cod	OT.St 6	Fr (M)	10	12278	0		0	8	1												
	Cod	OT.S1 5	Fr (M)	982	21548	4		92	-	100												
	Cod	OT.St 5	(Fr (M))	2	4299	0		3	0	87												
	Cod	OT 4-6	Ger	362	47868	1		22	354	6												
	Cod	OT.St 6	Por	210	10319	2																
	Cod	OT.S1 5	Por	829	41166	2																
	Cod	OT 5	Spa	99	32574	0																
	Cod	PT 3	Spa																			
Subarea 2				2615	185206	1		119	362	25	0	-	100	1284	607	68						
Total catches					449342				8778		4953											
3K	Cod	OT 4	Can (N)	0	1481	0																
	Cod	OT.S1 6	Fr (M)	32	783	4		0	32	0	189	0										
	Cod	OT.St 6	Fr (M)					0	6	5												
	Cod	OT.S1 5	Fr (M)	611	20527	3		288	-	100												
	Cod	OT.St 5	Fr (M)	1	1243	0		1	4	20												
	Cod	OT.St 6	Por	60	659	8																
	Cod	OT.S1 5	Por	170	11853	1																
	Cod	OT 5	Spa	39	13355	0																
	Cod	PT 3	Spa	70	465	15																
3L	Cod	OT 4	Can (N)	0	38	0		0	-	100	35	35	50									
	Cod	OT 3	Can (N)	0	1120	0					0	433	0									
	Cod	OT.S1 6	Fr (M)	20	351	5																
	Cod	OT.St 6	Fr (M)	0	4512	0		1	22	4												
	Cod	OT.S1 5	Fr (M)	470	11925	4		186	-	100	1	-	100									
	Cod	OT.St 5	Fr (M)	1	404	0																
	Cod	OT.St 6	Por	72	10011	1																
	Cod	OT.S1 5	Por	795	50610	1																
	Cod	OT 5	Spa	129	45608	0																
	Cod	PT 3	Spa	442	38692	1		26	950	3												
	Flo	OT 3	Can (M)																			
	P1a	OT 4	Can (N)	309	18	98		0	-	100	297	3854	8									
	P1a	OT 3	Can (N)	0	985	0					1131	19	99									
	W1t	OT 4	Can (N)	0	28	...		0	0	...	199	4126	5									
	W1t	OT 3	Can (N)	7	33	18					0	11	0									
	Yel	OT 4	Can (N)	0	372	0					20	141	12									

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	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
3L (cont'd)																						
3M																						
	Gre	OT 3	Can(N)	0	24	...																Log 82
	Cod	OT.S1 6	Fr(M)	2	33	1																Rep 100
	Cod	OT.S1 5	Fr(M)	96	12006	1					235	-	100	12	-	100						Rep 100
	Cod	OT.S1 5	Por	55	9989	1											88	NK	-	100		Log 100
	Cod	OT 5	Spa	3	4041	0											259	NK	-	100		Log 74
3N																						
	Cod	OT.S1 5	Fr(M)	2	45	4					1	-	100									Rep 100
	Cod	OT 5	Spa	5	518	5											18	NK	-	100		Log 74
	Cod	PT 3	Spa	176	35640	0	43	382	10		0	117	0	0	7072	0	747	NK	-	100		Log 80
	Pla	OT 4	Can(N)	0	1329	0					0		0	0		0						Log 98
30																						
	Cod	OT 4	Can(N)	0	310	0																Log 8
	Cod	OT 5	Spa	0	59	1																Log 74
	Cod	PT 3	Spa	106	33535	0	8	1168	1		0	14	...	0	417	0	2	NK	-	100		Log 80
	Pla	OT 4	Can(N)	0		0					0	24	...	0	1308	0	856					Log 1
	Wit	OT 4	Can(N)	0	79	0					0		...	0		0						Log 5
3Pn																						
	Cod	OT 4	Can(N)	0	106	0					0	8	...	0	6	...						Log 44
	Cod	OT 3	Can(N)	0	328	0	0	2	...		0	62	...	0	27	...						Log 24
	Cod	OT.S1 6	Fr(M)	30	648	5																Rep 100
	Cod	OT.S1 5	Fr(M)	38	2411	0	0	0	...		40	-	100	2	-	100						Rep 100
	Cod	OT.S1 5	Por	19	647	3																Rep 100
	Cod	OT 5	Spa	0		0																Log 100
	Cod	PT 3	Spa	0		0																Log 74
	Red	OT 3	Can(N)	0	75	0	0	0	...		0	2297	0	0	38	...						Log 80
3Ps																						
	Cod	OT 4	Can(N)	0	3284	0					0	69	0	0	698	0						Log 9
	Cod	OT 3	Can(N)	0	2108	0	0	116	0		0	192	0	0	260	0						Log 8
	Cod	OT.St 6	Fr(M)	0		0					1	-	100	0	-	100						Rep 100
	Cod	OT.S1 5	Fr(M)	13	845	2					74	-	100	1	-	100						Rep 100
	Cod	OT 5	Spa	0	629	0																Log 74
	Cod	PT 3	Spa	108	26239	0	45	1090	4		0	2764	0	0	93	0	10	NK	-	100		Log 80
	Red	OT 3	Can(N)	0	267	0	0	7	...		8	164	5	0	20	...	443	NK	-	100		Log 10
	Red	OT 2	Can(N)	0	14	...																Log 81
	Flo	OT 3	Can(M)	0										219	1541	12						Log 4
	Pla	OT 4	Can(N)	0	167	0	0				0	69	0	0	1445	0						Log 98
	Pla	OT 3	Can(N)	0	175	0	0	30	...		0		0	0	1723	0						Log 0
	Wit	OT 4	Can(N)	0	90	0	0	57	...		0		0	0	423	0						Log 5

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
3Ps	Wit	OT 3	Can(N)	0	12	...	0	9	...	0	4	...	0	59	...					Log	11
(cont'd)																					
Subarea 3				3881	350726	1	122	4150	3	835	5848	13	1923	24160	7	7045	-	-	100		
Total catches					732813			6545			52817			149780							

4R	Cod	OT 3	Can(M)	433	2592	14	0	0	...	0	177	0	0	179	0	2	Gre	1	33	Log	0
	Cod	OT 2	Can(M)	8	314	3	0	0	...	0	12	214	5	142	4	20	NK	-	100	Log	16
	Cod	OT 4	Can(N)	0	1914	0	0	0	...	0	0	0	0	0	0	21	NK	-	100	Log	2
	Cod	OT 3	Can(N)	58	2846	2	0	26	...	12	214	5	6	142	4	71	NK	-	100	Log	21
	Cod	OT.S1 6	Fr(M)	93	1818	5	0	0	...	9	-	100	0	-	100	31	NK	-	100	Rep	100
	Cod	OT.St 6	Fr(M)	4	1850	0	0	0	...	9	-	100	0	-	100	20	NK	-	100	Rep	100
	Cod	OT.S1 5	Fr(M)	473	18419	3	1	2	33	96	-	100	1	-	100	14	Shr	-	100	Rep	100
	Cod	OT.St 6	Por	30	1972	2	0	0	...	0	0	0	0	-	100	21	NK	-	100	Log	100
	Cod	OT.S1 5	Por	27	4933	1	0	0	...	0	0	0	0	-	100	71	NK	-	100	Log	100
	Cod	OT 5	Spa	1	2271	0	0	0	...	0	0	0	0	-	100	31	NK	-	100	Rep	74
	Cod	PT 3	Spa	1	508	0	0	0	...	0	0	0	0	-	100	20	NK	-	100	Rep	100
	Red	OT 2	Can(M)	0	392	0	0	0	...	496	5839	8	2	117	2	14	Shr	-	100	Log	100
	Red	OT 3	Can(N)	12	-	100	0	0	...	0	15004	0	0	0	0	0	0	0	0	Log	100
	Red	OT 1-3	USA	0	1	...	0	0	...	0	0	0	0	1	...	0	0	0	0	Log	100
	Pla	OT 4	Can(N)	0	9	...	0	0	...	0	0	0	0	24	11	0	0	0	0	Log	100
	Wit	OT 3	Can(N)	0	9	...	0	0	...	0	0	0	0	24	11	0	0	0	0	Log	100
4S	Red	OT 2	Can(M)	32	779	4	0	0	...	529	20364	2	22	426	5	0	0	0	0	Log	0
	Red	OT 3	Can(N)	0	11	...	0	0	...	0	724	0	0	2	...	0	0	0	0	Log	15
	Red	OT 1-3	USA	8	-	100	0	0	...	27	5007	1	28	166	14	0	0	0	0	Int	67
	Flo/Cod	OT 1b	Can(M)	2	546	0	-	100	...	0	0	0	28	166	14	0	0	0	0	Log	2
4T	Cod	OT 3	Can(M)	248	3311	7	0	0	...	0	85	0	25	386	6	0	0	0	0	Log	10
	Cod	OT 3	Can(N)	0	1709	0	0	11	...	0	0	0	0	259	0	0	0	0	0	Log	3
	Cod	PT 3	Spa													0	0	0	0	Log	80
	Cod/Flo	OT 2	Can(M)	1051	5713	16	0	0	...	913	4535	17	913	4535	17	0	0	0	0	Log	13
	Cod/Flo	DS 1b	Can(M)	92	874	10	0	0	...	359	1616	18	359	1616	18	0	0	0	0	Log	8
	Flo/Cod	OT 1b	Can(M)	747	7183	9	0	0	...	542	3553	15	542	3553	15	0	0	0	0	Log	5
4Vn	Cod	OT 3	Can(M)	78	4402	2	0	0	...	65	476	12	65	476	12	0	0	0	0	Log	9
	Cod	OT 2	Can(M)	23	518	4	0	0	...	0	105	0	0	105	0	0	0	0	0	Log	12
	Cod	OT 3	Can(N)	68	1674	4	0	16	...	0	52	...	0	105	0	0	0	0	0	Log	15
	Cod	OT.S1 5	Fr(M)	3	139	2	0	0	...	0	0	...	0	0	0	0	0	0	0	Rep	100

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
4Vn	Cod	OT 5	Spa													26	NK	-	100	Log	74
(cont'd)	Cod	PT 3	Spa	5	2054	0										22	NK	-	100	Log	80
	Red	OT 3	Can(N)	0	31	...				0	1501	0	0	22	...					Log	21
	Flo	DS 2	Can(M)										795	889	47					Log	2
4Vs	Cod	OT 3	Can(M)	28	2212	1				1	-	100	1	-	100					Log	4
	Cod	OT.SI 5	Fr(M)	2	7	22														Rep	100
	Cod	OT 5	Spa	2	110	2										1	NK	-	100	Log	74
	Cod	PT 3	Spa	88	38035	0	57	1702	3						1059	7				Log	80
	Red	OT 1-3	USA														Sme	-	100	Int	67
	Flo	OT 3	Can(M)										2628	7009	27					Log	3
	Pla	OT 3	Can(N)	0	111	0	0	0	...				0	305	0					Log	4
	Wit	OT 3	Can(N)	0	16	...	0	1	...							19	Pla	32	37	Log	18
4W	Cod	PT 3	Spa	190	12273	2	42	1458	3				417	321	57	283	NK	-	100	Log	80
	Cod/Flo	DS 1b	Can(M)																	Log	0
4X	Cod	PT 3	Spa	6	2829	0	1	116	1							17	NK	-	100	Log	80
	Had	OT 2-3	USA				24	3015	1											Int	67
	Had/Cod	OT 3	Can(M)	43	7197	1	100	9973	1				279	519	35					Log	1
Subarea 4				3856	131573	3	225	16420	1	1170	48967	2	6086	21052	22	1593	33				98
Total catches					247333			45991			104066			71840							
5Y	Red	OT 1-3	USA	7	13	35														Int	67
5Ze	Cod	PT 3	Spa	26	14488	0	87	2845	3							313	NK	-	100	Log	80
	Had/Cod	OT 3	Can(M)				96	3160	3											Log	0
	Had/Cod	OT 2	Can(M)	2	22	8														Log	17
	Had	OT 2-3	USA	83			64													Int	67
	Red	OT 1-3	USA	7																Int	67
	Yel	OT 1-3	USA												8760	20245	30			Int	20
	Her	OT 4	Pol	4	505	1	1	477	0				2	-	100	24	SII	307	7	Int	33
5Zw	Cod	PT 3	Spa	6	98	6	4	169	2				2	-	100	1	NK	-	100	Log	80
	Her	OT 4	Pol				2	36	5							24	SII	9	73	Int	33

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
5Z ^a Her	OT	5-6	Ger														984	Her	62856	2	Rep	100
Subarea 5				135	15126	1	254	6687	4				8764	20245	30	1346			63172	2		
Total catches					49176		44477				6777				53432							
6A Her	OT	4	Pol											3	-	100	15	Sil	5	75	Int	33
6B Her	OT	4	Pol	2		-	100	2	-	100			3	-	100	14	Sil		-	100	Int	33
Subarea 6				2		-	100	2	-	100			6	-	100	29			5	85		
Total catches						381	49								8080							

A. Discards																							
Subarea 1		1917	205754	1	1	-	100	192	8782	2	2	-	100	654	3477	16							
Subarea 2		2615	185206	1				119	362	25	0	-	100	1284	607	68							
Subarea 3		3881	350726	1	122	4150	3	835	5848	13	1923	24160	7	7045	-	100							
Subarea 4		3856	131573	3	225	16420	1	1170	48967	2	6086	21052	22	1593	33	98							
Subarea 5		135	15126	1	254	6687	4				8764	20245	30	1346	63172	2							
Subarea 6		2		100	2	-	100				6	-	100	29	5	85							
Statistical area		12406	888385	1	604	27257	2	2316	63959	4	16781	65457	20	11951	67294	15							
Total catches			1860914			97100			182044			289857											

B. Industrial Fish																								
1B Cod	OT	4-6	Ger	7	75		9																Rep	100
1C Cod	OT	4-6	Ger	2585	32550		8		26	1219	2			155	108								Rep	100
1D Cod	OT	4-6	Ger	4127	45044		9		56	1999	3			206	111								Rep	100
1E Cod	OT	4-6	Ger	54	40370		0		47	1945	2			161	1230								Rep	100
1F Cod	OT	4-6	Ger	210	15180		1		90	3619	3			89	199								Rep	100
2H Cod	OT	4-6	Ger	46	6092		1		0	-	100			26	106								Rep	100
2J Cod	OT	4-6	Ger	773	47868		2		14	354	4			159	501								Rep	100
2 ...	...		USSR											3812	3820								...	...
3K ...	OT.St	6	Pol	6	16682		0							0	1								Log	100
3 ...	...		USSR																				...	...
4 ...	...		USSR																				...	...
3-4 Cod	OT.St	6	Fr(M)	24	11019		0		12	28	43			100	12470								Rep	100
Cod	OT.SI	5	Fr(M)	3105	66327		5		1085	-	100			100	27128								Rep	100

a Not reported as 5Ze or 5Zw

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
5Ze	...	OT.St 6	Pol													5346	Her	14041	38	Log	100
	...	OT.St 5	Pol													1800	Her	2920	62	Log	100
	...	OT.S1 4	Pol													2957	Her	45000	7	Int	33
5Zw	...	OT.St 6	Pol													243	Her	394	62	Log	100
	...	OT.S1 4	Pol													124	Her	1143	11	Int	33
5Z ^a	Her	OT.4-6	Ger													2562	Her	62856	4	Rep	100
5	...	...	USSR													26170	...	238011	11	...	...
1-5	Cod	OT.St 6	Por	915	45492	2															
1-5	Cod	OT.S1 5	Por	1210	120819	1															
Convention area				13062	447518	3	1	0	...	1330	9164	15	31	3307	0	63599					
Total catches				1860533				97051		182044				281777							

a Not reported as 5Ze or 5Zw