



Serial No.2183
(G. b. 18)

ANNUAL MEETING - JUNE 1969

Summary of Statistics on Discards and Industrial Fish
(ICNAF Statistics Form 4), 1967

By: B. J. Kowalewski

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 1967 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 1967 from Germany, Poland and Portugal are summarized in Part B of the table.

Denmark (G) submitted a NIL return. Iceland reported no data available. USSR reported that no whole fish are discarded at sea. Denmark (F) and Norway did not report their data. Italy did not fish in the Convention Area in 1967. France (M) was unable to give detailed data on industrial fish but stated that fish meal production at sea reached 230 tons in the 1966/1967 season. 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%. Very few anglers are retained. Most cusk are taken on long lines with practically no discards. Atlantic halibut discards are negligible. 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:	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
	Mix	- mixed
NK	- not known	
Gear:	OT	- otter trawl
	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	- current reports
Symbols:	...	- not available or not reported
	-	- magnitude known to be nil or zero
	¢	- magnitude known to be more than zero but less than half the unit

3M	Cod	OT	3	Can(N)	-	45	-	1	-	100	26	-	100	-	-	-	-	-	Log	100
	Cod	OT	6	Fr(M)	41	1258	3	1	-	100	164	-	100	-	-	-	-	-	Log	100
	Cod	OT	5	Fr(M)	31	5499	5	-	-	100	-	-	100	-	-	-	-	-	Log	100
	Cod	OT	6	Por	18	395	4	-	-	-	-	-	-	100	-	-	-	-	Log	100
	Cod	OT	5	Por	43	10333	4	-	-	-	-	-	-	-	100	-	-	Log	100	
	Cod	OT	5	Spa	16	2432	1	-	-	-	-	-	-	-	100	-	-	Log	64	
	Cod	OT	4	UK	-	-	-	-	-	-	-	-	-	-	5	-	-	Int	100	
	Cod	PT	3	Spa	-	-	-	-	-	-	-	-	-	-	100	-	-	Log	80	
3N	Cod	OT	6	Fr(M)	125	1141	10	-	-	100	1	-	100	-	-	-	-	Log	100	
	Cod	OT	5	Fr(M)	104	720	13	-	-	-	-	-	-	-	-	-	-	Log	100	
	Cod	OT	6	Por	60	1886	3	-	-	-	-	-	-	-	-	-	-	Log	100	
	Cod	OT	5	Por	267	6085	4	-	-	-	-	-	-	100	-	-	-	Log	100	
	Cod	OT	5	Spa	198	9284	2	-	-	-	-	-	-	-	100	-	-	Log	64	
	Cod	PT	3	Spa	606	40552	1	53	1323	4	-	-	-	-	100	-	-	Log	80	
	Pla	OT	3	Can(N)	-	496	-	-	27	-	-	-	-	-	-	-	-	Log	8	
	Flo	OT	3	Can(M)	-	-	-	-	-	-	-	-	-	-	-	-	-	Log	1	
3O	Cod	OT	5	Spa	6	187	3	-	-	-	-	-	-	-	100	-	-	Log	64	
	Cod	PT	3	Spa	172	27925	1	5	832	6	-	-	-	-	100	-	-	Log	80	
	Pla	OT	4	Can(N)	-	-	-	-	-	-	-	-	-	-	-	-	-	Log	4	
	Pla	OT	3	Can(N)	-	196	-	-	-	-	-	-	-	-	-	-	-	Log	2	
	Wit	OT	4	Can(N)	8	75	10	-	-	-	-	-	-	-	-	-	-	Log	1	
3Pn	Cod	OT	6	Fr(M)	-	-	-	-	-	-	-	-	-	-	-	-	-	Log	100	
	Cod	OT	5	Fr(M)	53	5351	1	-	-	100	4	-	100	-	-	-	-	Log	100	
	Cod	OT	5	Por	43	1273	3	-	-	100	53	-	100	-	-	-	-	Log	100	
	Cod	OT	5	Spa	6	2479	2	-	-	-	-	-	-	-	100	-	-	Log	64	
	Cod	PT	3	Spa	-	-	-	-	-	-	-	-	-	-	-	-	-	Log	80	
	Red	OT	4	Can(N)	-	1	-	-	42	-	-	-	-	-	-	-	-	Log	11	
	Red	OT	1-3	USA	4	-	-	-	-	-	-	-	-	5	-	-	-	Int	33	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
3Pa	Cod	OT	3	Can(M)	282	554	34													Log	16
	Cod	OT	4	Can(N)	10	803	1			19	34	4	6	154	-					Log	6
	Cod	OT	3	Can(N)	-	1715	-						-	273	-					Log	100
	Cod	OT	6	Fr(M)						4	-	100								Log	100
	Cod	OT	5	Fr(M)	17	3032	2	2	100	111	-	100	φ	-	100					Log	100
	Cod	OT	6	Por	6	182	3									24			100	Log	100
	Cod	OT	5	Por												15			100	Log	100
	Cod	OT	5	Spa	1	732	φ									54	NK			Log	64
	Cod	PT	3	Spa	95	20120	φ	19	551	3				65	-	431	NK		100	Log	80
	Had	OT	4	Can(N)	-	86	-	-	152	-										Log	25
	Red	OT	4	Can(N)	-	19	-	-	3	-				77	-					Log	14
	Fla	OT	4	Can(N)	23	74	24							741	-					Log	4
	Fla	OT	3	Can(N)	3	137	2	-	77	-	29	-	43	724	-					Log	46
	Wit	OT	4	Can(N)	2	φ	100	4	28	12	9	-				37	Wit	122	23	Log	11
Subarea 3					5371	353572	1	123	3823	3	702	114	86	2608	45585	5	6335	1809	78		
Total Catches						720604			11542		89057			150813							

4R	Cod	OT	3	Can(M)	169	2335	7													Log	9
	Cod	OT	6	Fr(M)						35	-	100	φ	-	100					Log	100
	Cod	OT	5	Fr(M)	152	7528	2	1	1	50	148	-	100	φ	-	100				Log	100
	Cod	OT	6	Por	6	432	1									17			100	Log	100
	Cod	OT	5	Por	14	5748	φ									33			100	Log	100
	Cod	OT	5	Spa	8	3806	φ			86						57	NK		100	Log	64
	Red	OT	3	Can(M)																Log	1
	Red	OT	4	Can(N)	-	64	-			-	567	-				18	Cod		100	Log	20
	Red	OT	1-3	USA																Int	33
4S	Red	OT	1-3	USA	4	-	100													Int	33
4T	Cod	OT	3	Can(M)	188	2846														Log	21
	Cod	OT	2	Can(M)	4	2582	φ													Log	72
	Cod	OT	1b	Can(M)	312	5998	5													Log	4
	Cod	OT	5	Fr(M)	10	481	2			φ	-	100								Log	100
	Cod	OT	5	Spa												14	NK		100	Log	64
	Cod	PT	3	Spa	φ	443	φ	φ	9	4					6	NK		100	Log	80	
	Flo	OT	3	Can(M)																Log	22
	Flo	OT	2	Can(M)																Log	8
	Flo	OT	1b	Can(M)																Log	10
	Flo	DS	1b	Can(M)																Log	10
																				Log	φ

	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
4Vn	Cod	OT	3	Can(M)	147	2883	5												Log	11	
	Cod	OT	3	Can(N)	-	97	-			9	-								Log	1	
	Cod	OT	6	Fr(M)					2		100								Log	100	
	Cod	OT	5	Fr(M)	12	1229	1				100								Log	100	
	Cod	OT	5	Spa	4	1450	6								82	NK	-	100	Log	64	
	Cod	PT	3	Spa	6	1340	6								19	NK	-	100	Log	80	
	Cod	SS	2	Can(M)	7	100	7												Log	28	
	Red	OT	4	Can(N)						311	6		26						Log	17	
	Red	OT	1-3	USA											27	Sme	-	100	Int	33	
	Pla	OT	4	Can(N)	10	1	9								3	Wit	1	75	Log	3	
	Flo	OT	2	Can(M)								11	211	5					Log	25	
	Flo	DS	1b	Can(M)							106	509	17						Log	4	
4Vs	Cod	OT	2	Can(M)	4	608	1												Log	72	
	Cod	OT	5	Fr(M)	1	45	2		3		100								Log	100	
	Cod	OT	5	Spa															Log	64	
	Cod	PT	3	Spa	47	19103	6	42	838	5					13	NK	-	100	Log	80	
	Red	OT	3	Can(N)									50		603	NK	-	100	Log	80	
	Flo	OT	3	Can(M)								336	9314	3					Log	25	
	Flo	OT	2	Can(M)								57	129	31					Log	1	
	Flo	DS	1b	Can(M)								7	90	7					Log	47	
4W	Cod	OT	3	Can(M)	151	3503	4												Log	16	
	Cod	PT	3	Spa	125	14748	1	49	1046	4									Log	2	
	Red	OT	1-3	USA											436	NK	-	100	Log	80	
	Flo	OT	3	Can(M)											7	Sha	-	100	Int	33	
	Flo	SS	2	Can(M)								226	1129	17					Log	1	
4X	Cod	OT	3	Can(M)	269	4434	6					9	32	22					Log	31	
	Cod	PT	3	Spa	5	2536	6												Log	6	
	Had	OT	3	Can(M)				7	78	8					66	NK	-	100	Log	80	
	Had	OT	2	Can(M)				204	8867	2									Log	1	
	Had	OT	1-3	USA				1026	7175	13									Log	6	
	Red	OT	1-3	USA				1	4194	6									Int	67	
	Red	OT	1-3	USA											25	S11	1	96	Int	33	
Subarea 4					1649	84340	2	1330	22208	6	274	887	24	1654	16950	9	1426	2	100		
Total Catches					194447			48572		88280		40861									

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
5Y	Red	OT 1-3	USA																		
5Z	Cod	PT 3	Spa	149	14730	1	142	1355	9							20	Ska	3	87	Int	33
	Had	OT 3	Can(M)				783	7051	10							260	NK	-	100	Log	80
	Had	OT 1-3	USA				12	20555	6											Log	1
	Flo	OT 1-2	USA																	Int	67
	Her	OT 4-6	Ger											11274(y)	17087	40				Int	9
	Her	OT 4	Pol	3	-	100										4290	Her	28171	14	Rep	100
																150	Her	26928	1	Int	33
	Subarea 5			152	14730		937	28961	3				11274	17087	40	4720					
	Total Catches				42310			56964			10857			48676							

A. Discards																						
Subarea 1				928	18550	6				65	10946	1	6			100	2627			10769	20	
Subarea 2				1600	141961	1				129	783	1	1			100	1478			-	100	
Subarea 3				5371	353572	1	123	3823	3	702	114	86	2608	45585	5	6335				1809	78	
Subarea 4				1649	84340	2	1330	22208	6	274	887	24	1654	16950	9	1426				2	100	
Subarea 5				152	14730	1	937	28961	3				11274	17087	40	4720				55102	9	
Convention Area				9700	780183	1	2390	54992	4	1170	12730	8	15537	79622	16	16586				67682	20	
Total Catches					1684649			117369			218454			247281								

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
B. Industrial Fish																							
1B	Cod	OT 4-6	Ger	1482	9033	16											87	NK	-	100	Rep	100	
1C	Cod	OT 4-6	Ger	2824	31865	9					27	1495	2				351	NK	-	100	Rep	100	
1D	Cod	OT 4-6	Ger	7000	65324	11				165	4186	4	4				726	NK	-	100	Rep	100	
1E	Cod	OT 4-6	Ger	656	22113	3				87	2448	4	4				271	NK	-	100	Rep	100	
1F	Cod	OT 4-6	Ger	581	10167	6				135	2817	5	5				201	NK	-	100	Rep	100	
2G	Cod	OT 4-6	Ger	9	239	4				253	503	50	50				2	NK	-	100	Rep	100	
2H	Cod	OT 4-6	Ger	803	11069	7											74	NK	-	100	Rep	100	
...	...	OT 6	Pol	100	8504	1				23	280	8	8				171	NK	-	100	Rep	100	
2J	Cod	OT 4-6	Ger	1758	21047	8				40	2659	2	2				2	NK	-	100	Rep	100	
...	...	OT 6	Pol	145	28592	1				7	68	10	10				14	NK	-	100	Rep	100	
3K	Cod	OT 4-6	Ger	14	247	6																	
3L	Cod	OT 4-6	Ger	98	906	11																	
...	...	OT 6	Pol	25	5849	1				28	3371	1	1										
3N	...	OT 6	Pol	35	3255	1																	
5Z	Her	OT 4-6	Ger	15	-	100				3	155	2	2				4060	Her	28171	13	Rep	100	
1-5	Cod	OT 5	Pol	645	127653	1											155	Her	10749	1	Int	33	
Convention Area				16190	346223	5				768	17982	4	4	10	3644	6	6114			38920	16	LOG	100
Total Catches					780183				117369		218454												

Dartmouth
April 1969