

ANNUAL MEETING - JUNE 1967Compilation of Selectivity Data
presented to the Commission from 1962 to 1966

By the ICNAF Secretariat

At the Annual Meeting of Commission in Halifax, 1963 the Gear and Selectivity Subcommittee recommended:

that in accordance with the recommendation passed at the 1962 Annual Meeting: -

- (a) The results of all future selectivity experiments in the ICNAF area should, after first being presented as Meeting Documents by authors, be incorporated each year in a tabular summary, compiled by the Secretariat.
- (b) Composite summaries of all selectivity data of past years should be compiled by the Secretariat and issued at Annual Meetings at 5-yearly intervals.

Redbook 1963, Pt.I, p.49

In fulfilling this recommendation, selectivity data for cod, haddock, redfish, silver hake, red hake, American plaice and yellowtail, which have been submitted to the Commission from 1962 to 1966 by Canada, Germany Fed. Rep., Norway, Poland, USSR and USA are compiled and presented hereunder.

This is the second such compilation.

An earlier compilation of selectivity data for cod, haddock, silver hake, redfish, American plaice and witch submitted to the Commission during the period 1953-1961, was presented to the 1962 Annual meeting as Meeting Document no. 6 (Serial no. 941).

USSR
Poland

AUTHOR AND SOURCE	LOCALITY AND DEPTH RANGE	DATE	TRAWL	RUNNAGE AND R. TEX	SPEED OF TOW	HAULS NUMBER	METHOD	MESH SIZE	MESH GAUGE	SELECTION FACTOR	SELECTION RANGE	FISH IN SELECTION RANGE		WEIGHT OR NUMBER PER TOW
												CODEND	COVER	
GEAR: Otter trawl														
CODEND MATERIAL: Manila, double														
Bratberg ICNAF Res. Doc. 10 1965, p. 2-3	Division ID	April 1964	Hamburg 140' trawl			2	covered	133.5	ICES	3.4	10.5	734	806	
GEAR: Otter trawl														
CODEND MATERIAL: Polypropylene - Ulstron														
Bratberg ICNAF Res. Doc. 10 1965, p. 2-3	Division ID	April 1964	Hamburg 140' trawl			7	covered	141.5	ICES	3.3	12.2	1420	1394	
GEAR: Otter trawl														
CODEND MATERIAL: Polyethylene - Courlene														
Bratberg ICNAF Res. Doc. 10 1965, p. 2-3	Division ID	April 1964	Hamburg 140' trawl			4	covered		ICES	3.2	11.5	461	388	
GEAR: Bottom trawl														
CODEND MATERIAL: Polyamide, continuous														
Bohl ICNAF Res. Doc. 66-67 1966	Division IB 180-220 m	Nov- Dec/65	German standard roundfish bottom trawl, 140' ground- rope	252 3962	4.4	8	Topside cover	125.4	ICaS	3.51	11.4	1395	1651	
GEAR: Bottom trawl														
CODEND MATERIAL: Polyethylene monofilament														
Bohl ICNAF Res. Doc. 66-67 1966	Division IB 180-220 m	Nov- Dec/65	German standard roundfish bottom trawl, 140' ground- rope	153 6516	4.5	10	Topside cover	114.4	ICES	3.38	9.3	2044	1867	
GEAR: Bottom trawl														
CODEND MATERIAL: Polypropylene continuous														
Bohl ICNAF Res. Doc. 66-67 1966	Division IB 180-220 m	Nov- Dec/65	German standard roundfish bottom trawl, 140' ground- rope	204 4905	4.6	8	Topside cover	121.6	ICES	3.28	10.3	1274	1218	
GEAR: Bottom trawl														
CODEND MATERIAL: Polypropylene monofilament														
Bohl ICNAF Res. Doc. 66-67 1966	Division IB 180-220 m	Nov- Dec/65	German standard roundfish bottom trawl, 140' ground- rope	208 4800	4.4	8	Topside cover	121.6	ICES	3.22	8.2	880	850	
GEAR: Bottom trawl														
CODEND MATERIAL: Polyamide - Perlon, continuous														
Bohl ICNAF Res. Doc. 66-15 1965, p. 1-3	Division ID 80-110 m	Dec. 1965	German standard roundfish bottom trawl, 140' ground- rope	300 45000 tex single twine	4.6	4	covered codend without chafer	80	ICES	3.38	9.4	1279	1152	
as above	"	"	"	"	4.3	2	covered codend with chafer	80	ICES	3.38	8.5	727	705	

AUTHOR AND SOURCE	LOCALITY AND DEPTH RANGE	DATE	TRAWL	RUNNAGE AND R. TEX	SPEED OF TOW	HAULS		METHOD	MESH SIZE	MESH GAUGE	TOW DURATION	TOW SPEED	TOW COURSE	SELECTION RANGE			WEIGHT OF SPECIES ALL SPECIES
						NUM-BER	DURATION							CODEND	COVER	SPECIES STUDIED	

GEAR: Other trawl

CODEND MATERIAL: Manila

Hodder and Vay ICNAF Res. Bull. No. 2, 1963, p. 8-18 as above	Division 21	August 1962	41-5 Yankee trawl	101 9925 ¹ 101 9925	3.5	8	60	covered-codends	98	Westhoff	3.57	9.7			159	141	742 ² 465	3/	
	214-223	"	"	"	"	4	60	"	113	"	3.39	10.9			226	183	1067 630 857 560 761 530		
	221-280	"	"	"	"	8	60	"	120	"	3.96	10.5			114	159	614 465 467 345 363 330		
	220-255	"	"	"	"	16	60	alternate hauls	4	"	-	-			-	-	264		
	"	"	"	"	"	8	60	"	6	"	3.54	12.4			122	-	465		
	"	"	"	"	"	16	60	"	106	"	3.58	8.7			166	-	467		
	"	"	"	"	"	8	60	"	113	"	3.45	9.4			88	77	330 815 1140		
	"	160-170	October 1963	"	"	"	9	60	"	109	ICES	3.41	10.0			88	77	815 1140	
	"	140-165	"	"	"	"	12	60	"	120	"	3.52	10.4			65	69	667 930 507	
	"	145-185	"	"	"	"	8	60	"	130	"	3.46	10.6			86	78	507 615	

1 Codend lengthening piece
2 Number
3 Weight (kg)
3 Catches consisted almost entirely of cod alone

AUTHOR AND SOURCE	LOCALITY AND DEPTH RANGE	DATE	TRAWL	RUNNAGE AND R. TEX	SPEED OR TOW	HAULS NUM- BER	DUR- ATION	METHOD	MESH SIZE	MESH GAUGE	SELECTION RANGE	FISH IN SELECTION RANGE		WEIGHT OR NUMBER PER TOW
												CODEND	COVER	
Treschev ICNAF Res. Doc. 88-58 1968, p. 1-13	Division 3M	March/ April 1963	Standard commercial	R 8500 tex 80 S R 9500 tex 71 S	3.5- 4.0	5		without chafer	104.8	ICNAF & ICES	4.0	9.2		
"	"	Dec. 1964- Jan. 1965	"	"	3.5- 4.0	5	30- 180	"	102.1	ICNAF & ICES	4.0	11.8		
"	"	Jan. 1965	"	"	3.5- 4.0	5	30- 180	"	107	ICNAF & ICES	3.9	11.5		
"	"	March/ April 1963	"	"				with chafer (Sevryba type)	104		3.8			

GEAR: Otter trawl

CODEND MATERIAL: Polyamide - Capron

ICNAF BH SELECTION SUMMARY SPECIES: Cod

SUBAREA: 2 and 1

AUTHOR AND SOURCE	LOCALITY AND DEPTH RANGE	DATE	TRAWL	RUNNAGE AND R. TEX	SPEED OF TOW	HAULS NUM. DURATION	METHOD	MESH SIZE	MESH GAUGE	SELECTION FACTOR	SELECTION RANGE	FISH IN		WEIGHT OR NUMBER PER TOW	
												CODEND	COVER	SPECIES STUDIED	ALL SPECIES

GEAR: Otter trawl

CODEND MATERIAL: Polyamide - Steeiron, (double)

Strzyzewski ICNAF Redbook 1966 P. 111, p. 112-121	Divisions 3M-JW 60-360 m	April- June/65				6	without chafing gear	114.3	ICES	3.92	10.1					
"	"	"				9	with chafing gear	114.4	ICES	3.67	9.1					
"	"	"				6	"	117.6	"	3.77	11.2					
"	"	"				9	without chafing gear	124.4	"	3.39	10.7					

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AUTHOR AND SOURCE	LOCALITY AND DEPTH RANGE (m)	DATE	TRAWL	RUNNAGE AND R. TEX	SPEED OF TOW (knot)	HAULS NUM-BER	DUR-ATION	METHOD	MESH SIZE	MESH GAUGE	SELECTION FACTOR	SELECTION RANGE	FISH IN SELECTION RANGE		WEIGHT OR NUMBER PER TOW
													COVER	ALL SPECIES	
Hodder and May ICNAF Res. Bull. No. 1, 1965, p. 28-35	Division 3N 46-49	July 1960	41-5 Yankee trawl	121 8271 ¹ 121 8271	3.5	50	40	Alternate hauls	74 ¹ 83	ICNAF	-	-	-	11780 ³ 5991	6250 ⁴
	"	"	"	"	"	5	30	" I ²	108 105	"	3.33	-	-	2320 1293	1474
	"	"	"	"	"	"	5	" II	"	"	3.28	-	-	3175 2896	3103
	"	"	"	"	"	"	5	" III	"	"	3.15	-	-	7490 4051	4215
	"	"	"	"	"	"	5	" IV	"	"	3.22	-	-	10610 6086	6767
	"	"	"	"	101 9625 121 8271	"	5	" I	110 113	"	3.44	-	-	2490 1444	1509
	"	"	"	"	"	"	5	" II	"	"	3.36	-	-	6020 3551	3819
	"	"	"	"	121 8271 121 8271	"	5	" I	125 116	"	3.26	-	-	1505 1121	1758
	"	"	"	"	"	"	5	" II	"	"	3.20	-	-	6833 4448	4836

GEAR: Otter trawl
CODEND MATERIAL: Manila

¹ Codend Lengthening piece
² Roman numerals refer to various categories of catch size
³ Number Weight (kg)
⁴ Cod and haddock weight (kg)

AUTHOR AND SOURCE	LOCALITY AND DEPTH RANGE (m)	DATE	TRAWL	RUNNAGE AND R. TEX	SPEED OR TOW (knot)	HAULS (No. hauls - 10 min)	METHOD	MESH SIZE	MESH GAUGE	NO. OF SPECIES	NO. OF SPECIES	SELECTION RANGE		WEIGHT OR NUMBER PER TOW
												COVER	ALL SPECIES	

GEAR: Other trawl

CODEND MATERIAL: Manila

Hodder and May ICNAF Res. Bull. No. 1, 1964, p. 28-35	Division 3N 53-73	" "	" "	" "	" "	" "	Alternate hauls	71 79	ICNAF	-	-	-	-	4880 ³	21124
														1685	
				151 6617 ¹	3.5	19		94	"	3.26				1176	603
				101 9925		5		94	"	3.04				461	
				" "		5		"	"	3.17				2298	1246
				" "		5		"	"	3.17				862	
				" "		5		"	"	3.17				3942	1694
				" "		4		"	"	2.72				1900	
				" "		4		"	"	2.72				7828	3254
				" "		5		"	"	3.34				2965	
				" "		5		104	"	3.34				1171	694
				" "		5		107	"	3.34				504	
				" "		5		"	"	3.25				1561	1185
				" "		5		"	"	3.02				677	
				" "		5		"	"	3.02				2767	1444
				" "		4		"	"	3.02				1112	
				" "		4		"	"	3.02				5330	2685
				" "		6		"	"	-				2241	
				" "		6		70	"	-				35870	9176
				" "		6		76	"	-				8943	
				" "		3		95	"	3.58				5070	2215
				" "		3		91	"	3.58				2142	
				" "		3		60	"	3.37				19890	8413
				" "		3		60	"	3.54				7659	
				" "		3		104	"	3.54				4895	2250
				" "		2		106	"	3.54				2135	
				" "		2		60	"	3.24				13500	6163
				" "		15		67	"	-				6034	
				" "		15		84	"	-				8330	4892
				" "		5		84	"	-				4096	
				" "		5		94	"	3.42				4095	2521
				" "		5		100	"	3.42				2080	
				" "		5		80	"	3.37				7020	4176
				" "		5		80	"	3.37				3530	
				" "		5		80	"	3.28				9390	5863
				" "		5		80	"	3.28				4888	
				" "		5		109	"	3.17				2215	1789
				" "		5		107	"	3.17				2215	
				" "		5		80	"	3.10				1185	
				" "		5		80	"	3.10				4175	2836
				" "		5		60	"	3.09				2177	
				" "		5		60	"	3.09				8880	
				" "		5		60	"	3.09				4969	6012

1 Codend Lengthening piece

2 Roman numerals refer to various categories of catch size

3 Number Weight (kg)

4 Cod and haddock weight (kg)

AUTHOR AND SOURCE	LOCALITY AND DEPTH RANGE	DATE	TRAWL	RUNNAGE AND R. TEX	SPEED TOW	HAULS		METHOD	MESH SIZE	MESH GAUGE	SELECTION FACTOR	SELECTION RANGE	FISH IN SELECTION RANGE		WEIGHT OR NUMBER PER TOW	
						NUM- BER	DUR- ATION						SELECTION RANGE	COVER		ALL SPECIES STUDIED
Draganik & Zukowski ICNAF, Res. Doc. 66-29, 1966	Division 52 70-110 m	Aug./Sept. 1965			4.5	8	120- 180	without chaffing Gear	113.7	ICES	3.64	9.3				

CODEND MATERIAL: Polyamide - Steelon, double

GEAR: Otter trawl

ICNAF FISH SELECTION SUMMARY SPECIES: Haddock

SUBAREA: 3 and 4

AUTHOR AND SOURCE	LOCALITY AND DEPTH RANGE	DATE	TRAWL	RUNNAGE AND R. TEX	SPEED OR TOW	HAULS		METHOD	MESH SIZE	MESH GAUGE	SELECTION FACTOR	FISH IN SELECT RANGE	FISH IN RANGE		WEIGHT OR NUMBER PER TOW	
						NUM-BER	DUR-ATION						CODEND	COVER	SPECIES STUDIED	ALL SPECIES

GEAR: Otter Trawl

CODEND MATERIAL: Polyamide - Stretched, 300 µm

Stewart et al. ICNAF Workshop 1969 P. 13 E-21-124	Divisions 3M-4W 30-360 m	April- June 1969				5		without hauling Rear	113.4	ICES	3.75	1				
	"	"				2		"	137.3	ICES	3.2	11.5				

AUTHOR AND SOURCE	LOCALITY AND DEPTH RANGE	DATE	TRAWL	RUNNAGE AND R. TEX	SPEED OF TOW	HAULS		METHOD	MESH SIZE	MESH GAUGE	SELECTION FACTOR	SELECTION RANGE	FISH IN SELECTION RANGE		WEIGHT OR NUMBER PER TOW
						NUM-BER	DUR-ATION						CODEND	COVER	
Treschev ICNAF Res. Doc. 66-58 1966, p. 1-13	Division 3M "	March/ April 1963 "	Standard commercial "	R 8500 tex 80 S R 9500 tex 71 S	3.5- 4.0			without chafer	107.2	ICNAF & ICES	2.7				
				"	"	3.5- 4.0			with chafer (Seveyba type)	102.8	ICNAF & ICES	2.7			

GEAR: Otter trawl
 CODEND MATERIAL: Polyamide - Capron, double

ICNA: ISH SELECTION SUMMARY

SPECIES: Redfish

SUBAREA: 2 and 4

AUTHOR AND SOURCE	LOCALITY AND DEPTH RANGE	DATE	TRAWL	RUNNAGE AND R. TEX	SPEED OR TOW	HAULS NUM. - DUR. - ACTION	METHOD	MESH SIZE	MESH GAUGE	SELECTION FACTOR	SELECTION RANGE	FISH IN SELECTION RANGE		WEIGHT OR NUMBER PER TOW
												COVER	SPECIES STUDIED	

GEAR: Otter Trawl

CODEND MATERIAL: Polyamide-Steelon, double

Sirzyewski ICNAF Redbook 1966 P.111, p.112-121	Divisions 3N-4W 60-360 m	April- June 1965				5	without chafing Gear	114.6	ICES	2.85	6.8			
		"				3	with chafing Gear	103.9	ICES	2.82	5.0			
		"				1	without chafing Gear	128.5	ICES	2.31	13.4			

AUTHOR AND SOURCE	LOCALITY AND DEPTH RANGE	DATE	TRAWL	RUNNAGE AND R. TEX	SPEED OF TOW	HAULS		METHOD	MESH SIZE	MESH GAUGE	SELECTION FACTOR	SELECTION RANGE	FISH IN SELECTION RANGE		WEIGHT OR NUMBER PER TOW	
						NUM-BER	DUR-ACTION						CODENO	COVER		SPECIES STUDIED
Jensen & Henningsen ICNAF Res. Doc. No. 61 1965, p. 1-11	Division 5Y 12-70 F.	June/Aug. 1964	Trawl net similar to commercial type	-	-	10	40	covered with 31mm	52	ICES	5.6	12-32 cm	26	77	44	-
	"	"	"	-	"	13	40	without cover	52	ICES	4.9	18-31 cm	47	-	31	-
	"	"	"	-	"	18	50	"	73	ICES	1.2	21-33 cm	30	-	14	-
	Division 5Y 30-21 F.	October 1964	"	-	2	60	"	"	33	ICES	-	-	-	-	162	-
	"	"	"	"	-	"	85	"	71	ICES	5.1	30-41 cm	131	-	97	-

GEAR: Otter trawl
CODEND MATERIAL: Polyamide - Nylon

AUTHOR AND SOURCE	LOCALITY AND DEPTH RANGE	DATE	TRAWL	RUNNAGE AND R. TEX	SHEET NO. IN TOW	HAULS NUM. BURSTION	METHOD	MESH SIZE	MESH GAUGE	NO. OF SPECIES	NO. OF SPECIES COVERED	NO. OF SPECIES STUDIED	ALL SPECIES
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GEAR: Otter trawl

CODEND MATERIAL: Polyamide - Nylon

Jensen & Hennemuth ICMFP Res. Doc. No. 61 1965, p. 1-14	Division 5X 14-70 F	June/Aug. 1964	Trawl net similar to commercial type	-	-	20	45	covered with 3mm	52	ICES	3.2	12-37 cm	24,524	2,845	1,411	-
	"	"	"	-	-	20	45	without cover	52	ICES	5.08	12-39 cm	20,413	-	1,042	-
	"	"	"	-	-	20	45	"	73	ICES	4.16	12-51 cm	9,773	-	459	-
	Div. 5X no depth	Sept/Oct. 1964	"	-	2	4	120	without cover	50	ICES	-	-	-	-	12,656	-
	"	"	"	-	"	4	105	"	71	ICES	4.27	12-40 cm	18,876	-	4,773	-
	Div. 5X	October 1964	"	-	"	11	65	"	33	ICES	-	-	-	-	7,746	-
	"	"	"	-	"	10	75	"	71	ICES	4.13	12-36 cm	39,681	-	4,443	-

1M/1/66

IN: MESH SELECTION SUMMARY SPECIES: Admetichthys PLI

EUAREA

AUTHOR AND SOURCE	LOCALITY AND DEPTH RANGE	DATE	TRAWL	RUNNAGE AND R. TEX	SPEED OF TOW	HAUL'S		METHOD	MESH SIZE	MESH GAUGE	SELECTION FACTOR	CODENO	EVALUATION		WEIGHT OR VOLUME PER SPECIES
						NUM.	DURATION						COVER	SPECIES STUDIED	
Strzyzewski ICNAF Redbook 1966 P.111, p.112-121	Divisions 3W-JW 60-360 m	April- June 1965	Otter trawl				3		without chafing gear	112.6	ICES	2.42			
	"	"					3		with chafing gear	108.9	ICES	2.33			
	"	"					2		without chafing gear	123.0	ICES	2.20			

GEAR: Otter trawl
CODEND MATERIAL: Polyamide - Steelon, double

ICNAF MESH SELECTION SUMMARY

SPECIES: Howtail Flounder

SUBAREA: 3 1

AUTHOR AND SOURCE	LOCALITY AND DEPTH RANGE	DATE	TRAWL	RUNNAGE AND R. TEX	SPEED OR TOW	HAULS		METHOD	MESH SIZE	MESH GAUGE	SELECTION FACTOR	SELECTION RANGE		FISH IN SELECTION RANGE		WEIGHT OR NUMBER PER TOW
						NUM. HAULS	DUR. PER ATTON					CODEND	COVER	SPECIES STUDIED	ALL SPECIES	

GEAR: Otter trawl

CODEND MATERIAL: polyamide - Steepon, double

Strzyzewski ICNAF Redbook 1968 P.111, p.112-121	Divisions 3M-4W 60-360 m	April- June 1985				1		without chafing gear	114.2	ICES	2.29	3.1					
						1			127.0	ICES	2.15	7.7					

12/1/86