

ANNUAL MEETING - JUNE 1967Trawl material and mesh size sampling data, 1966

By the Secretariat

At the 1966 Annual Meeting the Subcommittee on Gear and Selectivity and R&S recommended:

that the 1964 and 1965 submissions of trawl material and mesh size sampling data should be summarized by the Secretariat and included in Redbook 1966, Part III. Thereafter, this information should be presented annually by the Secretariat as a meeting document and summarized and published in the Redbook every third year, beginning with the Redbook 1969.

Redbook 1966, Pt.I, p.20 and 65

In fulfilling this recommendation, trawl material and mesh size sampling data submitted by member countries for 1966 are summarized and presented herewith. Data have been reported by Canada, France, Germany, Fed. Rep., Poland, Portugal, USSR, UK and USA. (A limited number of copies of the original national submissions is available in the Commission Secretariat as ICNAF Res.Doc.67/23 Supplement No.1).

Similar trawl material and mesh size data for 1964 and 1965 have been presented in Redbook 1966, Pt.III, p.191-200.

The following summary presents the number of codends with average mesh size greater than (>), equal to (=) and less than (<) in the 110-114 mm (4 2/5 - 4 3/5 inches) mesh size group.

The type of topside chafing gear used is shown for each country in a footnote. The kind of mesh measuring gauge used are given under the name of country.

The following abbreviations have been used:

PA	-	polyamides
PES	-	polyesters
PE	-	polyethylenes
PP	-	polypropylenes
Ma	-	Manila or sisal
O	-	Other materials
Had	-	Haddock
Red	-	Redfish
Hak	-	Hake/Urophycis spp/
Pol	-	Pollock
Fla	-	Flatfish
Mix	-	Mixed
Ind	-	Industrial
OT	-	Otter trawl
sid	-	Side-trawler
ste	-	Stern-trawler

Summary of trawl material and  
mesh size Sampling Data by country, 1966

Canada - 1966  
(ICNAF gauge)

Species	Gear	Mesh size group (110-114 mm)	No. of codends measured																
			Subarea 3				Subarea 4				Subarea 5								
			PA	PES	PE	PP	Ma	O	PA	PES	PE	PP	Ma	O	PA	PES	PE	PP	Ma
Cod	OT	>	-	3	4	1	-	21	21	13	-	-	-	3	5	-	-	-	-
		=	16	4	8	-	-	26	9	12	-	-	2	-	-	-	-	-	
		<	22	2	-	-	-	57	30	2	-	-	-	-	-	-	-	-	
	ch/ce		58/60				88/191				6/10								
	ste	>	2	1	-	-	-	2	2	2	-	-	1	2	2	-	-	-	
=		7	-	-	-	-	4	-	1	-	-	-	-	-	-	-	-		
<		-	-	-	-	-	3	1	2	-	-	-	-	-	-	-	-		
ch/ce		6/10				4/17				0/5									
Had	OT	>	-	1	1	-	-	9	3	3	-	-	2	-	4	-	-		
		=	1	-	-	-	-	17	10	5	-	-	3	-	3	-	-		
		<	-	1	-	-	-	47	4	-	-	-	2	-	-	-	-		
	ch/ce		4/4				32/98				14/14								
	ste	>	-	-	-	-	-	2	2	-	-	-	-	-	2	-	-		
=		-	-	-	-	-	-	1	4	-	-	-	-	1	-	-			
<		-	-	-	-	-	-	-	-	-	-	-	-	1	-	-			
ch/ce		0/9				0/4				0/4									
Red	OT	>	1	1	6	-	-	2	2	-	-	-	-	-	-	-	-		
		=	3	3	3	-	-	3	5	3	-	-	-	-	-	-			
		<	5	2	2	-	-	60	21	1	-	-	-	-	-	-			
	ch/ce		24/26				29/97				-								
	ste	>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
=		1	-	-	-	-	3	-	-	-	-	-	-	-	-				
<		-	-	-	-	-	4	-	-	-	-	-	-	-	-				
ch/ce		1/1				1/7				-									
Pol	OT	>	-	-	-	-	-	1	1	-	-	-	-	-	-	-			
		=	-	-	-	-	-	1	-	-	-	-	-	-	-				
		<	-	-	-	-	-	5	-	-	-	-	-	-	-				
	ch/ce		-				3/8				-								
	ste	>	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
=		-	-	-	-	-	-	-	-	-	-	-	-	-					
<		-	-	-	-	-	-	-	-	-	-	-	1	-					
ch/ce		-				0/1				-									
Hak	OT	>	-	-	-	-	-	3	-	-	-	-	-	-	-	-			
		=	-	-	-	-	-	-	1	-	-	-	-	-	-				
		<	-	-	-	-	-	-	-	-	-	-	-	-	-				
	ch/ce		-				0/4				-								
	ste	>	5	-	-	-	-	1	-	-	-	-	-	-	-				
=		11	-	-	-	-	-	-	-	-	-	-	-						
<		45	-	2	-	-	2	-	-	-	-	-	-						
ch/ce		19/63				1/3				-									
Fla	OT	>	7	8	36	-	-	16	17	2	-	-	-	-	-				
		=	47	12	17	-	-	7	6	4	-	-	-	-					
		<	94	8	6	1	-	18	7	-	-	-	-						
	ch/ce		233/236				30/77				-								
	ste	>	5	-	-	-	-	1	-	-	-	-	-	-					
=		11	-	-	-	-	-	-	-	-	-	-							
<		45	-	2	-	-	2	-	-	-	-	-							
ch/ce		19/63				1/3				-									
All Species	OT	>	8	14	47	1	-	51	44	19	-	-	2	3	9	-			
		=	67	19	28	-	-	54	30	25	-	-	5	-	3	-			
		<	121	13	8	1	-	187	62	3	-	-	2	-	-	-			
	Total		196 46 83 2				292 136 47				9 3 12								
	Total ch/ce		319/326				182/475				20/24								
ste	>	7	-	-	-	-	5	4	2	-	-	1	2	4	-				
	=	19	-	-	-	-	7	1	5	-	-	-	-	1	-				
	<	45	-	2	-	-	9	1	2	-	-	-	-	2	-				
Total		71 - 2				21 6 9				1 2 7									
Total ch/ce		26/74				6/36				0/10									

Note: Only ICNAF chafer used.

FRANCE - 1966  
(NEAFC simple flat gauge)

Species	Gear	Mesh size group (110-114 mm)	No. of codends measured				
			Subarea 1,2,3,4				
			PA				
			PES	PE	PP	Ma	O
Cod	OT	>	105	-	-	-	-
	sid	=	7	-	-	-	-
		<	7	-	-	-	-
ch/ce			0/119				

GERMANY, Fed. Rep. - 1966  
(ICES gauge)

Species	Gear	Mesh size group (110-114 mm)	No. of codends measured				
			Subarea 1,2,3				
			PA				
			PES	PE	PP	Ma	O
Cod	OT	>	4	5	-	-	-
Had	sid	=	7	-	-	-	-
Red		<	14	3	-	-	-
ch/ce			33/33				
	OT ste	>	5	3	-	-	-
		=	2	1	-	-	-
		<	7	-	-	-	-
ch/ce			7/18				

Note: Chafers used similar in design to the ICNAF type, but substantially narrower in width.

POLAND - 1966  
(ICNAF gauge)

Species	Gear	Mesh size group (110-114 mm)	No. of codends measured				
			Subarea 3				
			PA				
			PES	PE	PP	Ma	O
Cod	OT	>	45	-	-	-	-
Had	ste	=	-	-	-	-	-
Red		<	19	-	-	-	-
Fla	ch/ce		0/64				

PORTUGAL - 1966  
(ICES simple flat gauge)

Species	Gear	Mesh size group (110-114 mm)	No. of codends measured				
			Subarea 1,2,3,4				
			PA				
			PES	PE	PP	Ma	O
Cod	OT sid <sup>1</sup>	>	17	27	-	-	-
		=	20	99	-	-	-
		<	-	-	-	-	-
ch/ce			45/163 <sup>3</sup>				
	OT ste <sup>2</sup>	>	-	-	-	-	-
		=	6	8	-	-	-
		<	-	-	-	-	-
ch/ce			6/14 <sup>4</sup>				

<sup>1</sup> New and used codends

<sup>2</sup> New codends

<sup>3</sup> ICNAF chafers

<sup>4</sup> Other type chafers, which will be described in meeting

USSR - 1966  
(ICNAF gauge)

Species	Gear	Mesh size group (110-114 mm)	No. of codends measured									
			Subarea 3					Subarea 5				
			PA					PA				
			PES	PE	PP	Ma	O	PES	PE	PP	Ma	O
Cod	OT	>	-	-	-	-	-	-	-	-	-	-
	sid	=	5	-	-	-	-	-	-	-	-	-
Red Fla	ste	<	11	-	-	-	-	-	-	-	-	-
		ch/ce	7/16 <sup>1</sup>									
Cod	OT	>	-	-	-	-	-	-	-	-	-	-
Had	ste	=	-	-	-	-	-	24	-	-	-	-
Red		<	-	-	-	-	-	22	-	-	-	-
Fla		ch/ce						46/46 <sup>2</sup>				

<sup>1</sup>Other type chafers

<sup>2</sup>ICNAF chafers

UK - 1966  
(NEAFC - simple flat gauge)

Species	Gear	Mesh size group (110-114 mm)	No. of codends measured										
			Subarea 2					Subarea 3					
			PA					PA					
			PES	PE	PP	Ma	O	PES	PE	PP	Ma	O	
Cod	OT <sup>1</sup>	>	-	-	1	-	-	-	-	-	3	-	-
Had		=	-	-	1	-	-	-	-	-	2	-	-
Fla		<	-	-	-	-	-	-	-	-	-	-	-
		ch/ce	0/2					0/5					

<sup>1</sup>Not reported if side or stern trawls

USA - 1968  
(ICES & ICNAF gauges)<sup>1</sup>

Species	Gear	Mesh size group (110-114 mm)	No. of codends measured																								
			Subarea 4						Subarea 5						Subarea 3,4,5						Subarea 4,5						
			PA	PE	PP	Ma	O	PA	PE	PP	Ma	O	PA	PE	PP	Ma	O	PA	PE	PP	Ma	O	PA	PE	PP	Ma	O
Cod	OT	>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	sid	=	2	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		<	55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Red	ch/ce			12/57																							
	OT	>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	sid	=	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hak	ch/ce			12/91																							
	OT	>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	sid	=	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hak	ch/ce			0/35																							
	OT	>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	sid	=	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fla	ch/ce			18/54																							
	OT	>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	sid	=	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mix	ch/ce			17/137																							
	OT	>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	sid	=	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ind	ch/ce			9/27																							
	OT	>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	sid	=	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
All species	ch/ce			0/11																							
	OT	>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	sid	=	2	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total	ch/ce			56/320																							
	OT	>	57	-	-	-	-	3	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	sid	=	55	-	-	-	-	3	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total	ch/ce			12/57																							
	OT	>	302	4	14	-	-	4	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	sid	=	57	-	-	-	-	4	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			0/35																								
			12/181																								
			12/181																								

Note: ICES chafers used only  
<sup>1</sup> ICNAF gauge used only for Subarea 4 and 5 data (last column)