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on Arctic fisheries

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- Table I. Arctic cod. Total catch for each region 1930 - 58.
Metric tons round fresh weight.
- Table II. Arctic cod. Total catch by countries 1930 - 58.
- Table III. Arctic cod. Catch by countries in Region I 1930 - 58.
Metric tons round fresh weight.
- Table IV. Arctic cod. Catch by countries in Region II a 1930 - 58.
Metric tons round fresh weight.
- Table V. Arctic cod. Catch by countries in Region II b 1930 - 58.
Metric tons round fresh weight.
- Table VI. Arctic cod. Fishing effort in Region I 1930 - 58.
- Table VII. Arctic cod. Fishing effort in Region II a 1930 - 58.
- Table VIII. Arctic cod. Fishing effort in Region II b 1930 - 58.
- Table IX. Arctic cod. Catch per unit effort for trawl fisheries in Region I
1930 - 58. Metric tons round fresh weight.
- Table X. Arctic cod. Catch per unit effort for fisheries in Region IIa 1930 - 58.
Metric tons round fresh weight.
- Table XI. Arctic cod. Catch per unit effort for trawl fisheries in Region II b
1930 - 58. Metric tons round fresh weight.
- Table XIIa-c. Arctic cod. Total catch by each country by age groups. 1000 fish.
Region I, II a & II b.
- Table XIII. Arctic cod. Total catch by age groups for each region 1932 - 58.
1000 fish.
- Table XIVa-c. Arctic cod. Length distributions by countries and regions 1950 - 58.
Per mille. Region I, II a & II b.
- Table XV. Arctic cod. Growth data.
- Table XVI. Arctic cod. Length-weight relations. Kilos. Round fresh weight.
- Table XVII. Arctic cod. List of length grouping and method of length
measurement used by each country.

Table I. Arctic cod. Total catch for each region 1930 - 1958.
 Metric tons. Round fresh weight.

Year	Region I	Region II b	Region II a	Total
1930	83 466	72 013	282 163	437 642
1931	96 884	64 266	172 010	333 160
1932	118 681	52 761	220 922	392 364
1933	133 118	53 270	172 448	358 836
1934	183 977	58 773	188 134	430 884
1935	223 253	116 778	151 801	491 832
1936	369 574	186 182	190 148	745 904
1937	431 514	167 960	285 847	885 321
1938	314 075	215 913	259 309	789 297
1939		137 133	352 282	
1940	137 394	20	244 699	382 113
1941	102 714	-	207 498	310 212
1942	25 462	-	177 814	203 276
1943	32 506	-	136 118	168 624
1944	39 281	-	180 094	219 375
1945		50 000	151 958	
1946	199 640	210 443	295 917	706 000
1947	340 758	164 879	376 380	882 017
1948	406 620	130 831	236 844	774 295
1949	484 942	127 103	188 077	800 122
1950	356 474	163 783	211 725	731 982
1951	407 989	140 493	278 698	827 180
1952	524 160	105 860	246 775	876 795
1953	442 839	103 616	149 091	695 546
1954	597 534	98 663	129 824	826 021
1955	830 694	153 437	163 710	1 147 841
1956	787 070	323 834	232 164	1 343 068
1957	396 195	261 704	136 458	794 357
1958	345 420	254 232	152 131	751 783

For notes see tables III - V.

Table II. Arctic cod. Total catch by countries 1930 - 1958.

	England	Germany	Norway	USSR	Others
1930	72 034	23 445	325 459	16 625	79
1931	59 905	26 079	211 443	35 685	48
1932	53 012	24 114	272 948	41 268	1 022
1933	57 718	31 441	231 365	37 393	919
1934	82 946	42 470	235 126	68 780	1 562
1935	119 681	65 374	207 167	95 770	3 840
1936	192 944	99 453	242 787	194 670	16 050
1937	225 917	113 903	303 414	234 560	7 527
1938	213 043	107 037	309 397	150 200	9 620
1939	-	95 759	379 207	163 390	11 277
1940	-	4 060	264 603	113 450	-
1941	-	-	229 822	80 390	-
1942	-	-	193 266	10 010	-
1943	-	-	153 754	14 870	-
1944	-	-	194 825	24 550	-
1945	-	-	164 233	64 720	-
1946	260 046	19 111	308 834	117 980	29
1947	309 171	21 913	392 415	155 820	2 698
1948	316 103	38 049	248 973	167 930	3 240
1949	361 602	38 038	219 477	168 230	12 775
1950	248 711	28 556	247 741	189 080	17 894
1951	255 654	36 212	315 058	210 840	9 416
1952	224 983	24 933	297 279	284 630	44 970
1953	133 394	19 221	218 882	295 780	28 269
1954	148 185	20 732	196 020	434 990	26 094
1955	214 968	32 555	268 388	552 420	79 510
1956	260 209	69 067	335 950	581 490	96 352
1957	154 634	45 177	249 706	282 840	62 000
1958	149 513	20 480	272 670	267 120	42 000

Table III. Arctic cod. Catch by countries in Region I 1930 - 1958.
Metric tons round fresh weight.

Year	England	Germany	Norway	USSR	Others	Total
1930	11 993	18 889	35 925	16 625	34	83 466
1931	9 444	13 300	38 419	35 685	36	96 884
1932	14 936	8 636	52 832	41 268	1 009	118 681
1933	21 031	14 702	59 080	37 393	912	133 118
1934	35 570	25 225	54 268	67 990	924	183 977
1935	29 952	22 040	72 397	95 770	3 094	223 253
1936	53 790	27 230	90 805	194 100	3 649	369 574
1937	77 120	32 600	85 281	233 260	3 253	431 514
1938	52 907	34 230	76 101	148 980	1 857 x)	314 075
1939	-	19 788	66 639	163 200	3 591	-
1940	-	3 460	20 504	113 430	-	137 394
1941	-	-	22 324	80 390	-	102 714
1942	-	-	15 452	10 010	-	25 462
1943	-	-	17 636	14 870	-	32 506
1944	-	-	14 731	24 550	-	39 281
1945	-	-	12 275	64 720	-	-
1946	53 835	-	28 676	117 100	29	199 640
1947	127 242	5 980	53 119	151 970	2 447	340 758
1948	164 794	17 000	63 386	158 650	2 790	406 620
1949	226 450	17 210	67 816	162 340	11 126	484 942
1950	136 790	13 500	66 230	135 410	4 544	356 474
1951	129 030	16 160	66 854	189 580	6 365	407 989
1952	130 546	8 220	92 019	258 830	34 545	524 160
1953	59 445	2 340	101 423	261 400	18 231	442 839
1954	72 347	12 440	86 759	404 650	21 338	597 534
1955	91 379	14 890	126 042	530 280	68 103	830 694
1956	67 787	11 640	113 686	512 170	81 787	787 070
1957	38 488	7 590	117 117	183 000	50 000 4)	396 195
1958	46 225	1 181	121 444	146 570	30 000 4)	345 420

Note 1. All weights converted to round fresh weight by means of conversion factors (k) : for Germany K = 1.2
for Norway K = 1.4

Note 2. Since 1949 Soviet data for catches of cod include small quantities of haddock.

x) Note 3. Includes small quantity of flounders.

Note 4. Estimated.

Table IV. Arctic cod. Catch by countries in Region II a 1930 - 1958.
Metric tons round fresh weight.

Year	England	Germany	Norway	Others	Total
1930	222	-	281 896	45	282 163
1931	1 064	-	170 934	12	172 010
1932	2 138	-	218 771	13	220 922
1933	2 003	-	170 438	7	172 448
1934	2 700	8 215	177 219	-	188 134
1935	9 305	21 280	121 162	54	151 801
1936	16 594	43 892	129 662	-	190 148
1937	27 490	58 681	199 582	94	285 847
1938	12 326	39 761	207 070	152	259 309
1939	16 000 *	43 570	292 712	-	352 282
1940		600	244 099	-	244 699
1941	-	-	207 498	-	207 498
1942	-	-	177 814	-	177 814
1943	-	-	136 118	-	136 118
1944	-	-	180 094	-	180 094
1945	-	-	151 958	-	151 958
1946	20 413	-	275 504	-	295 917
1947	45 302	1 187	329 640	251	376 380
1948	43 771	15 740	176 883	450	236 844
1949	30 483	11 276	145 515	803	188 077
1950	15 483	14 316	173 779	8 147	211 725
1951	22 990	17 002	238 512	194	278 698
1952	33 891	16 418	195 517	949	246 775
1953	23 297	12 490	113 304	-	149 091
1954	17 333	8 005	104 486	-	129 824
1955	19 172	14 802	129 736	-	163 710
1956	28 381	27 144	176 561	78	232 164
1957	26 819	14 444	95 195	-	136 458
1958	23 200	15 989	112 942	-	152 131

Note: Landed weights converted to round fresh weights by means
of conversion factors
for England and Germany 1.2
for Norway 1.6

x : estimated.

Table V. Arctic cod. Catch by countries in Region II b 1930 - 1958.
Metric tons round fresh weight.

Year	England	Germany	Norway	USSR	Others	Total
1930	59 819	4 556	7 638	-	-	72 013
1931	49 397	12 779	2 090	-	-	64 266
1932	35 938	15 478	1 345	-	-	52 761
1933	34 684	16 739	1 847	-	-	53 270
1934	44 676	9 030	3 639	790	638	58 773
1935	80 424	22 054	13 608	-	692	116 778
1936	122 560	28 331	22 320	570	12 401	186 182
1937	121 307	22 622	18 551	1 300	4 180	167 960
1938	147 810	33 046	26 226	1 220	7 611	215 913
1939	77 000	32 401	19 856	190	7 686	137 133 x ¹
1940	-	-	-	20	-	20
1945	50 000	-	-	-	-	50 000 x ¹
1946	185 798	19 111	4 654	880	-	210 443
1947	136 627	14 746	9 656	3 850	-	164 879
1948	107 538	5 309	8 704	9 280	-	130 831
1949	104 669	9 552	6 146	5 890	846	127 103
1950	96 438	740	7 732	53 670	5 203	163 783
1951	103 634	3 050	9 692	21 260	2 857	140 493
1952	60 546	295	9 743	25 800	9 476	105 860
1953	50 652	4 391	4 155	34 380	10 038	103 616
1954	58 505	287	4 775	30 340	4 756	98 663
1955	104 417	2 863	12 610	22 140	11 407	153 437
1956	164 041	30 283	45 703	69 320	14 487	323 834
1957	89 327	23 143	37 394	99 840	12 000	261 704 x ²
1958	80 088	3 310	38 284	120 550	12 000	254 232 x ²

- Notes:
- (i) ENGLISH, GERMAN and (probably "OTHERS") data refer to landings, not catch; RUSSIAN data are of catch.
 - (ii) GERMAN data compiled from monthly figures and increased by factor of 1.2 to convert from gutted to whole weight.
 - (iii) "OTHERS" for 1937 probably includes other gadoid species.
 - (iv) From 1952 onwards, the Faroe catch in the NE area is split half in each of regions I and II b to arrive at a total for "OTHERS".
- x¹ Estimated for English landings.
- x² In the absence of statistics, the catch of "OTHERS" is taken as 12 000 tons in 1957 and 1958 for the purpose of obtaining on approximation to the total catch in these years.

Table VI. Arctic cod. Fishing effort in Region I 1930 - 1958.

Year	A England	B Germany	C USSR	D <u>Total catch</u> English catch	E <u>Total catch</u> USSR catch	F English effort x D	G USSR effort x E
1930	16.30	5617	47500	6.96	5.02	113.45	238.45
1931	16.04	5245	89213	10.26	2.72	164.57	242.65
1932	21.89	3029	98257	7.95	2.88	174.03	282.99
1933	29.17	3644	98403	6.33	3.56	184.65	350.30
1934	31.47	3050	128283	5.17	2.71	164.10	347.64
1935	24.72	3178	102978	7.45	2.33	184.16	239.94
1936	36.72	2526	190294	6.87	1.90	252.27	361.55
1937	57.37	3247	206425	5.60	1.85	321.27	381.90
1938	42.59	2971	196026	5.94	2.11	252.98	413.62
1939							
1945							
1946	24.39	-	103628	3.71	1.71	90.49	177.21
1947	48.27	272	148990	2.68	2.24	129.36	333.74
1948	58.20	851	161888	2.47	2.56	143.75	414.44
1949	76.13	1013	170884	2.14	2.99	162.92	510.93
1950	76.14	857	161202	2.61	2.63	198.73	423.96
1951	98.93	1461	231195	3.16	2.15	312.62	497.07
1952	102.60	1524	246505	4.02	2.03	412.45	500.42
1953	53.12	334	275158	7.45	1.69	395.74	465.02
1954	51.47	851	340042	8.26	1.48	425.14	503.26
1955	60.65	1050	373437	9.09	1.57	551.31	586.30
1956	54.28	856	492471	11.61	1.54	630.19	758.40
1957	44.46	616	358824	10.29	2.17	457.49	778.64
1958	55.57	-	318630	7.47	2.36	415.11	751.97

Notes:

- A Hours fishing x average tonnage x 10^{-6} = millions of ton-hours.
- B Fishing days.
- C Estimated Hours fishing (obtained as ratio $\frac{\text{catch (tons)}}{\text{catch/hr}}$)
- F = Estimated total effort in English units.
- G = Estimated total effort in Russian units (as 1000 Hours fishing).

Table VII. Arctic cod. Fishing effort in Region II a 1930 - 1958.

Year	A	B	C	D		E	F	G	H	I
	England	Germany	Norway	English catch	German catch	Lofoten catch	English effort x D	German effort x E	Norwegian effort x F	
1930	0.34		28 356	1 271.00		1.39	4.32		39 415	
1931	2.15		26 508	161.66		1.65	347.57		43 738	
1932	2.53		26 608	103.33		1.31	261.42		34 856	
1933	3.68		31 905	86.09		1.34	316.81		42 753	
1934	3.09	865	28 336	69.68	22.90	1.35	215.31	19.81	38 254	
1935	5.07	3 759	28 772	16.31	7.13	1.72	82.69	26.80	49 488	
1936	4.92	4 568	25 043	11.46	4.33	2.25	56.38	19.78	56 347	
1937	9.92	6 508	23 559	10.40	4.87	2.17	103.17	31.69	51 123	
1938	4.91	5 638	22 548	21.04	6.52	1.81	103.31	36.76	40 812	
1939										
1945										
1946	3.16	-	21 517	14.50	-	1.44	45.82	-	30 984	
1947	11.89	523	20 541	8.31	317.09	1.61	98.91	165.84	33 071	
1948	15.09	2 535	19 247	5.41	15.05	1.34	81.64	38.15	25 791	
1949	10.29	2 598	18 552	6.17	16.68	1.76	63.49	43.33	32 652	
1950	11.03	3 973	16 514	13.67	14.79	1.84	150.78	58.76	30 386	
1951	16.04	3 757	21 981	12.12	16.39	1.50	194.40	61.38	32 972	
1952	29.32	4 320	23 645	7.28	15.03	1.70	213.45	64.93	40 197	
1953	19.92	3 074	23 192	6.40	11.94	1.80	127.49	36.70	41 746	
1954	17.52	2 732	20 441	7.49	16.22	1.77	131.22	44.31	36 181	
1955	18.42	4 191	14 437	8.54	11.06	2.21	157.31	46.35	31 906	
1956	20.40	4 197	18 033	8.18	8.55	2.20	166.87	35.88	39 673	
1957	23.86	3 878	10 812	5.09	9.45	3.70	121.45	36.65	40 004	
1958	26.70		12 125	6.56	9.51	2.81	175.15		34 071	

- Notes:
- A Hours fishing x average tonnage x 10^{-6} = millions of ton-hours.
 - B Fishing days.
 - C Number of men fishing in Lofoten.
 - G = Estimated total effort in English units.
 - H = Estimated total effort in German units.
 - I = Estimated total effort in Norwegian units.

Table VIII. Arctic cod. Fishing effort in Region II b 1930 - 1958.

Year				A	B	C	D
	England	Germany	USSR	Total catch of cod (tons)	English catch	A/B	English effort x C
1930	17.51	596		72 013	59 819	1.20	21.01
1931	16.14	1 239		64 266	49 397	1.30	20.98
1932	18.61	1 227		52 761	35 938	1.47	27.36
1933	14.48	1 637		53 270	34 684	1.54	22.30
1934	21.80	1 337	1 145	58 773	44 676	1.32	28.78
1935	19.79	1 707	-	116 778	80 424	1.45	28.70
1936	24.06	2 043	687	186 182	122 560	1.52	36.57
1937	35.51	1 311	1 287	167 960	121 307	1.38	49.00
1938	50.71	1 813	2 068	215 913	147 810	1.46	74.04
1939	(?)	1 815	452				
1940			105				
1945	5.59						
1946	20.33	866	518	210 443	185 798	1.13	22.97
1947	31.29	1 099	4 425	164 879	136 627	1.21	37.86
1948	31.73	300	8 360	130 831	107 538	1.22	38.71
1949	27.60	7 960	6 402	127 103	104 669	1.21	33.40
1950	36.91	49	41 605	163 783	96 438	1.70	62.75
1951	54.23	169	17 008	140 493	103 634	1.36	73.75
1952	30.98	123	26 327	105 860	60 546	1.75	54.22
1953	27.48	319	31 255	103 616	50 652	2.05	56.33
1954	32.12	71	27 835	98 663	58 505	1.69	54.28
1955	44.32	137	19 593	153 437	104 417	1.47	65.15
1956	68.12	1 623	48 139	323 834	164 041	1.97	134.20
1957	65.56	2 196	151 273	261 704	89 327	2.93	192.09
1958	66.39	585	215 268	254 232	80 088	3.17	210.46

NOTES :

- A Hours fishing x average tonnage x 10^{-6} = millions of ton-hours.
- B Fishing days.
- C Estimated Hours fishing (obtained as ratio $\frac{\text{catch (tons)}}{\text{catch/hr}}$)
- D = Estimated total effort in English units.

Table IX. Arctic cod. Catch per unit effort for trawl fisheries in Region I 1930-58.
Metric tons round fresh weight.

Year	Relative C. P. U. E.				
	England	Germany	USSR	England	USSR
1930	0.074	3.36	0.35	0.525	0.422
1931	0.059	2.54	0.40	0.418	0.482
1932	0.068	2.85	0.42	0.482	0.506
1933	0.072	4.03	0.38	0.511	0.458
1934	0.112	8.27	0.53	0.794	0.639
1935	0.121	7.80	0.93	0.858	1.120
1936	0.146	11.30	1.02	1.035	1.229
1937	0.134	9.47	1.13	0.950	1.361
1938	0.124	10.60	0.76	0.879	0.916
1939					
1945					
1946	0.221	-	1.13	1.567	1.361
1947	0.264	22.50	1.02	1.872	1.229
1948	0.283	19.90	0.98	2.007	1.181
1949	0.297	17.00	0.95	2.106	1.145
1950	0.180	15.85	0.84	1.277	1.012
1951	0.130	10.80	0.82	0.923	0.988
1952	0.127	5.04	1.05	0.901	1.265
1953	0.112	6.82	0.95	0.794	1.145
1954	0.141	14.75 x)	1.19	1.000	1.434
1955	0.151	14.00 x)	1.42	1.071	1.711
1956	0.125	14.00 x)	1.04	0.887	1.253
1957	0.087	13.95 x)	0.51	0.617	0.614
1958	0.083	-	0.46	0.589	0.554
Average	0.141		0.83		

Notes:

- (I) English figures are $\frac{\text{tons (fish landed)}}{100 \text{ hours fishing} \times \text{average tonnage (ships)}}$
- (II) German figures are tons per fishing day.
- (III) Russian figures are tons per 1 hour trawling.
- (IV) Relative C. P. U. E. = $\frac{\text{Annual values}}{\text{Average}}$
- x) Fishing mainly in April, May, November, December and January.

Table X. Arctic cod. Catch per unit effort for fisheries in Region II a 1930 - 1958.
Metric tons round fresh weight.

Year	Relative C. P. U. E.				
	England	Germany	Norway	England	Lofoten
1930	0.065	-	7.18	0.351	1.264
1931	0.049	-	3.93	0.265	0.692
1932	0.084	-	6.32	0.454	1.113
1933	0.054	-	4.05	0.292	0.713
1934	0.087	9.50	4.92	0.470	0.866
1935	0.184	5.66	3.06	0.995	0.539
1936	0.337	9.61	3.37	1.822	0.593
1937	0.277	9.02	5.60	1.497	0.986
1938	0.251	7.05	6.35	1.357	1.118
1939					
1946	0.647	-	9.58	3.497	1.687
1947	0.381	2.27	11.36	2.059	2.000
1948	0.290	6.21	5.90	1.568	1.039
1949	0.296	4.34	5.75	1.600	1.013
1950	0.140	3.60	6.96	0.757	1.226
1951	0.143	4.53	8.44	0.773	1.486
1952	0.116	3.80	6.14	0.627	1.081
1953	0.117	4.06	3.57	0.632	0.629
1954	0.099	2.93	3.58	0.535	0.630
1955	0.104	3.53	5.14	0.562	0.905
1956	0.139	6.47	5.85	0.751	1.030
1957	0.112	3.72	3.41	0.605	0.600
1958	0.087		4.47	0.470	0.787
Average	0.185		5.679		

- Notes:
- (i) English figures are $\frac{\text{tons (fish landed)}}{100 \text{ hours fishing } \times \text{ average tonnage (ships)}}$
 - (ii) German figures are tons per fishing days.
 - (iii) Norwegian figures are tons per man in Lofoten.
 - (iv) Relative C. P. U. E. = $\frac{\text{Annual values}}{\text{Average}}$

Table XI. Arctic cod. Catch per unit effort for trawl fisheries in Region II b 1930-58.
Metric tons round fresh weight.

Year	Relative C. P. U. E.				
	England	Germany	USSR	England	USSR
1930	0.342	7.64	-	1.131	-
1931	0.306	10.31	-	1.012	-
1932	0.193	12.62	-	0.638	-
1933	0.240	9.12	-	0.794	-
1934	0.205	6.76	0.69	0.678	0.736
1935	0.406	12.94	-	1.343	-
1936	0.510	13.87	0.83	1.687	0.885
1937	0.342	17.26	1.01	1.131	1.077
1938	0.292	18.23	0.59	0.966	0.629
1939	-	17.86	0.42	-	0.448
1940	-	-	0.19	-	0.203
1946	0.915	22.06	1.70	3.026	1.812
1947	0.437	13.42	0.87	1.445	0.928
1948	0.339	17.70	1.11	1.121	1.183
1949	0.379	20.76	0.92	1.253	0.981
1950	0.261	15.12	1.29	0.863	1.375
1951	0.191	18.06	1.25	0.632	1.333
1952	0.195	2.40	0.98	0.645	1.045
1953	0.184	13.78	1.10	0.608	1.173
1954	0.182	4.04	1.09	0.602	1.162
1955	0.236	20.90	1.13	0.780	1.205
1956	0.241	18.99	1.44	0.797	1.536
1957	0.136	10.54	0.66	0.450	0.704
1958	0.121	5.31	0.56	0.400	0.597
Average	0.3024		0.938		

- Notes:
- (i) English figures are $\frac{\text{tons (fish landed)}}{100 \text{ hours fishing} \times \text{average tonnage (ships)}}$
 - (ii) German figures are tons per fishing day.
 - (iii) Russian figures are tons per 1 hour trawling.
 - (iv) Relative C. P. U. E. = $\frac{\text{Annual values}}{\text{Average}}$

Table XII a 1. Arctic cod. Total catch by each country by age groups. 1000 fish. Region I.

Year	1932				1933				1934			
	England Germany & Other	Norway	USSR	Total	England Germany & Other	Norway	USSR	Total	England Germany & Other	Norway	USSR	Total
2		70	1 672	1 742			777	777			885	885
3	6	488	4 235	4 729		33	5 876	5 909		130	5 448	5 578
4	139	1 745	5 961	7 845	188	1 091	4 856	6 135	237	1 834	12 387	14 458
5	535	3 447	5 206	9 188	1 075	4 869	4 759	10 703	1 750	6 193	12 154	20 097
6	1 138	3 789	3 372	8 299	1 713	6 007	2 719	10 439	3 405	7 542	6 566	17 513
7	1 371	3 808	2 616	7 795	2 348	6 325	2 258	10 931	3 012	4 407	3 586	11 005
8	777	2 351	1 268	4 396	1 712	4 202	1 335	7 249	4 791	3 263	3 446	11 500
9	559	1 945	728	3 232	813	1 497	558	2 868	1 426	831	978	3 235
10	793	2 627	890	4 310	697	1 160	510	2 367	411	141	186	738
11	532	1 588	432	2 552	324	476	219	1 019	309	138	186	633
12	438	788	270	1 496	26	34	24	84	418	136	186	740
13	256	572	189	1 017	169	108	48	325	170	135	140	445
14	234	284	108	626	284	72	97	453	32	-	93	125
15	49	213	27	289	588	245	243	1 076	138	134	93	365
16	28	71		99	30	34		64	267	399	233	899
17					12	33		45	66	131	47	244
18						33		33				
Total	6 855	23 786	26 974	57 615	9 979	26 219	24 279	60 477	16 432	25 414	46 614	88 460

Note: For England, Germany, Norway (trawl), and Other the German size-distribution for 1932/33 and an age-length key from Finnmark (long line) have been used. For USSR the Russian size-distribution and the same age-length key have been used.

For England, Germany, Norway (trawl) and Other the German size-distribution for 1933/34 and an age-length key from Finnmark (long line) have been used. For USSR the Russian size-distribution and the same age-length key have been used.

For England, Germany, Norway (trawl) and Other the German size-distribution for 1934/35 and an age-length key from Finnmark (long line) have been used. For USSR the Russian size-distribution and the same age-length key have been used.

Year	1935				1936				1937			
	England Germany & Other	Norway	USSR	Total	England Germany & Other	Norway	USSR	Total	England Germany & Other	Norway	USSR	Total
2		17	1 301	1 318			801	801		31	2 204	2 235
3	15	258	3 643	3 916	59	98	8 280	8 437	14	95	5 051	5 160
4	255	1 865	7 911	10 031	333	550	10 150	11 033	1 591	1 701	15 153	18 445
5	3 573	9 405	21 080	34 058	1 007	1 841	10 328	13 176	2 451	1 972	7 347	11 770
6	6 359	7 206	9 941	23 506	4 959	11 541	34 279	50 779	6 456	4 864	13 775	25 095
7	4 570	4 023	4 580	13 173	4 586	8 955	14 869	28 410	14 373	11 309	26 724	52 406
8	2 649	1 893	2 082	6 624	5 346	4 759	6 856	16 961	7 293	5 998	14 326	27 617
9	1 283	791	833	2 907	2 015	1 327	1 781	5 123	2 131	2 172	4 867	9 170
10	400	344	260	1 004	537	322	445	1 304	322	420	827	1 569
11	135	173	52	360	108	81	89	278	217	261	551	10 29
12	68	23	52	143	146	78	89	313	175	150	367	692
13	93	91	52	236	98	68	178	344			92	92
14	24	40	52	116	28			28		33	92	125
15	145			145	302	33	890	1 225	102	8	459	569
16	140	213	52	405	19			19		33		33
17	30	185	52	267	16	245		261		66		66
18	37	68	52	157	43	140		183		94		94
19	15	68	52	135						64		64
20	3	34		37						64		64
21		17		17						31		31
Total	19 794	26 714	52 047	98 555	19 602	30 038	89 035	138 675	35 125	29 366	91 835	156 326

Note: For England, Germany, Norway (trawl) and Other the German size-distribution for 1935/36 and an age-length key from Finnmark (long line) have been used. For USSR the Russian size-distribution and the same age-length key have been used.

For England, Germany, Norway (trawl) and Other the German size-distribution for 1936/37 and an age-length key from Finnmark (long line) have been used. For USSR the Russian size-distribution and the same age-length key have been used.

For England, Germany, Norway (trawl) and Other the German size-distribution for 1937/38 and an age-length key from Finnmark (long line) have been used. For USSR the Russian size-distribution and the same age-length key have been used.

Table XII a 3. Arctic cod. Total catch by each country by age groups. 1000 fish. Region I.

Age	1938				1939				1946		
	England Germany & Other	Norway	USSR	Total	England Germany & Other	Norway	USSR	Total	England USSR & Other	Norway	Total
2			211	211			531				
3	268	250	2 264	2 782		165	2 521		4 067	54	4 121
4	1 342	1 098	4 633	7 073		886	6 236		6 449	150	6 599
5	5 086	4 060	10 265	19 411		3 356	10 084		6 379	225	6 604
6	4 114	3 510	5 791	13 415		7 617	18 111		10 586	575	11 161
7	6 787	6 739	10 844	24 370		4 249	9 686		7 711	691	8 402
8	6 847	7 333	11 739	25 919		2 515	6 103		6 589	1 116	7 705
9	3 087	3 055	5 001	11 143		2 868	7 629		13 599	2 315	15 914
10	889	760	1 211	2 860		1 498	3 848		9 885	1 690	11 575
11	346	322	474	1 142		461	1 260		2 945	502	3 447
12	84	49	105	238		-	-		771	131	902
13	-	-	-	-		-	-		280	48	328
14	-	-	-	-		-	-		140	24	164
15	20	1	105	126		82	332		280	48	328
16	-	40	-	40		57	-		140	24	164
17	-	-	-	-		-	-		140	24	164
20		117		117		55					
21		39		39		109					
Total	28 870	27 373	52 643	108 886		23 918	66 341		69 961	7 617	77 578

Note: For England, Germany, Norway(trawl) and Other the German size-distribution for 1938/39 and an age-length key from Finnmark (long line) have been used. For USSR the Russian size-distribution and the same age-length key have been used.

For England, Norway (trawl) and Other the Russian age-distribution have been used.

Table XII a 4. Arctic cod. Total catch by each country by age groups. 1000 fish. Region I.

Age	1947			1948			1949			
	England Germany USSR & Other	Norway	Total	England Germany USSR & Other	Norway	Total	England Germany & Other	Norway	USSR	Total
2				634	16	650	104	4		108
3	1 847	39	1 886	1 109	27	1 136	3 983	146	317	4 446
4	16 136	608	16 744	2 378	92	2 470	11 636	466	1 666	13 768
5	25 128	1 388	26 516	19 653	1 076	20 729	16 551	1 140	8 728	26 419
6	25 129	2 127	27 256	41 843	3 349	45 192	31 355	3 840	25 470	60 665
7	19 956	2 762	22 718	58 960	7 556	66 516	18 076	4 809	26 263	49 148
8	5 296	1 393	6 689	14 264	3 441	17 705	8 172	2 912	9 204	20 288
9	6 282	1 662	7 944	9 005	2 232	11 237	5 921	1 329	3 491	10 741
10	9 238	2 460	11 698	2 536	643	3 179	2 650	644	952	4 246
11	9 731	2 575	12 306	4 597	1 139	5 736	1 436	803	1 508	3 747
12	2 094	552	2 646	1 743	427	2 170	918	1 275	873	3 066
13	1 355	357	1 712	794	192	986	711	425	476	1 612
14	738	194	932	950	228	1 178	207	218	238	663
15							398	264		662
16								272		272
17								268		268
Total	122 930	16 117	139 047	158 466	20 418	178 884	102 118	18 815	79 186	200 119

Note:

For England, Germany, Norway (trawl) and Other the Russian age distribution has been used.

For England and Other the German age-distribution has been used. For Norway (trawl) the German age-distribution for 1949/50 has been used.

Table XII a 5. Arctic cod. Total catch by each country by age groups. 1000 fish. Region I.

Year	1950					1951				
	England & Other	Germany	Norway	USSR	Total	England & Other	Germany	Norway	USSR	Total
1									897	897
2									897	897
3		10	5	344	359	38	828	426	20 239	21 531
4	480	140	178	3 672	4 470	1 481	2 463	1 622	42 015	47 581
5	1 123	434	661	8 320	10 538	9 019	1 221	2 299	31 511	44 050
6	5 355	693	1 613	11 475	19 136	14 227	669	2 258	16 140	33 294
7	12 586	1 815	5 150	16 984	36 535	12 062	435	4 524	9 735	26 756
8	9 095	798	5 082	8 893	23 868	6 938	676	6 473	4 227	18 314
9	4 175	454	2 745	3 902	11 276	4 303	207	3 040	1 537	9 087
10	1 720	249	843	1 779	4 591	1 839	207	385	512	2 943
11	986	105	446	1 205	2 742	2 048	90	46	384	2 568
12	141	95	284	344	864	24	69	36		129
13	133	110	599	230	1 072		14	7		21
14	47	20	115	115	297		21	264		285
15	33	65	151	57	306					
16	6		120	57	183					
17			333		333					
Total	35 880	4 988	18 325	57 377	116 570	51 979	6 900	21 380	128 094	208 353

Note: For England and Other the English length-distribution and the Russian age-length key have been used. For Norway (trawl) the German age-distribution for 1950/51 has been used.

For England and Other the English length-distribution and the Russian age-length key have been used. For Norway (trawl) the German age-distribution for 1951/52 has been used.

Table XII a 6. Arctic cod. Total catch by each country by age groups. 1000 fish. Region I.

Year	1952					1953				
	England & Other	Germany	Norway	USSR	Total	England & Other	Germany	Norway	USSR	Total
2				957	957				220	220
3	202	292	207	21 290	21 991	14	4	3 876	38 318	42 212
4	6 176	1 010	6 554	80 254	93 994	1 470	149	10 182	88 308	100 109
5	15 715	1 396	11 630	70 807	99 548	10 019	288	19 651	57 477	87 435
6	21 576	738	11 548	35 643	69 505	11 940	352	9 918	22 683	44 893
7	17 445	663	4 674	20 812	43 594	5 674	178	6 549	7 267	19 668
8	5 431	381	3 354	5 024	14 190	3 994	115	3 517	4 184	11 810
9	2 806	248	3 539	2 392	8 985	1 179	61	1 959	1 101	4 300
10	2 015	129	1 032	718	3 894	512	43	1 066	440	2 061
11	1 215	54	256	478	2 003	107	13	567	220	907
12	1 208	20	21	239	1 488	151	7	127	220	505
13	27	20	21		68	28	6	61		95
14			43		43			52		52
15			21		21		4	37		41
16								57		57
18			19		19					
20								12		12
24								12		12
Total	73 816	4 951	42 919	238 614	360 300	35 088	1 220	57 643	220 438	314 389

Note: For England and Other the English length-distribution and the Russian age-length key have been used.

For England and Other the English length-distribution and the Russian age-length key have been used.

Table XII a 7. Arctic cod. Total catch by each country by age groups. 1000 fish. Region I.

Year	1954				1955				
	England Germany & Other	Norway	USSR	Total	England & Other	Germany	Norway	USSR	Total
2	9			9				308	308
3	59	2 298	8 575	10 932	1			3 691	3 692
4	4 079	18 871	119 383	142 333	840	348	914	29 529	31 631
5	14 557	11 240	106 192	131 989	12 380	4 577	22 564	123 342	162 863
6	16 647	6 936	58 043	81 626	30 644	1 029	18 387	93 814	143 874
7	7 845	4 840	22 426	35 111	17 937	1 333	14 147	35 373	68 790
8	3 055	3 461	8 575	15 091	6 220	78	3 338	13 534	23 170
9	1 240	2 477	3 298	7 015	2 204	24	1 012	4 614	7 854
10	749	1 340	1 979	4 068	1 488	12	361	2 461	4 322
11	517	443	989	1 949	647	4	168	923	1 742
12	78	276		354	167		103		270
13	21	137		158	36		40		76
14		81		81	3		15		18
15		26		26			11		11
16									
17		25		25					
21							11		11
Total	48 856	52 451	329 460	430 767	72 567	7 405	61 071	307 589	448 632

Note: For England, Germany and Other the English length distribution and the Russian age-length key have been used. For Norway (trawl) the Russian age-distribution has been used.

For England and Other the English length-distribution and the Russian age-length key have been used.

Age	Year 1956				Year 1957				Year 1958				
	England & Other	Germany	Norway	USSR	Total	England & Other	Norway	USSR	Total	England & Other	Norway	USSR	Total
0								282	282				
1								657	657				
2			38	854	892		217	2 066	2 283		60	575	635
3	26		445	9 959	10 430	83	571	5 446	6 100	527	1 454	4 188	6 169
4	616		878	19 633	21 127	2 017	1 878	16 713	20 608	4 166	9 555	18 475	32 196
5	7 661	320	7 438	80 240	95 659	3 460	2 681	10 235	16 376	9 351	20 108	21 842	51 301
6	27 845	2 779	25 018	114 954	170 596	9 997	9 307	21 032	40 336	7 790	7 360	12 317	27 467
7	16 530	812	8 660	40 120	66 122	9 881	17 051	20 281	47 213	5 451	8 132	8 950	22 533
8	6 834	575	4 946	13 658	26 013	6 674	6 397	12 770	25 841	5 182	9 538	9 936	24 656
9	1 466	130	1 010	2 845	5 451	1 317	3 126	2 347	6 790	1 464	2 005	3 120	6 589
10	752	15	574	1 423	2 764	591	694	1 127	2 412	854	1 052	1 807	3 713
11	298	8	187	569	1 062	387	266	751	1 404	392	78	739	1 209
12	57		72		129	86	105	188	379	103	49	164	316
13	18		57		75	2	40		42	3	32		35
14	27				27		9		9	2			2
15											32		32
16													
17											32		32
21			13		13								
Total	62 130	4 639	49 336	284 255	400 360	34 495	42 342	93 895	170 732	35 285	59 487	82 113	176 885

Note: For England and Other the English length-distribution and the Russian age-length key have been used. For Norway (trawl) the Russian age-distribution has been used.

For England, Germany and Other the English length-distribution and the Russian age-length key have been used. For Norway (trawl) the Russian age-distribution has been used.

Table XII b 1. Arctic cod. Total catch by each country by age-groups. Region II a. 1000 fish.

Year	1934			1935			1936		
	England & Germany	Norway	Total	England & Germany	Norway	Total	England & Germany	Norway	Total
6	15	87	102	129	94	223	-	-	-
7	89	726	815	695	936	1 631	910	846	1 756
8	182	2 111	2 293	970	2 635	3 605	2 537	3 781	6 318
9	158	2 737	2 895	897	4 096	4 993	2 844	6 326	9 170
10	173	3 609	3 782	455	2 624	3 079	1 790	4 672	6 462
11	149	3 360	3 509	292	1 871	2 163	627	1 729	2 356
12	258	5 300	5 558	265	1 570	1 835	309	844	1 153
13	142	2 807	2 949	290	1 446	1 736	336	763	1 099
14	87	1 493	1 580	125	621	746	291	692	983
15	168	2 578	2 746	115	470	585	181	447	628
16	96	1 144	1 240	256	922	1 178	46	122	168
17+ older	64	638	702	254	993	1 247	336	793	1 129
Total	1 581	26 590	28 171	4 743	18 278	23 021	10 207	21 015	31 222

Notes: For England and Germany a German size-distribution and an age-length key from Lofoten have been used. But ages 15 and higher for Germany and England have been given same distribution as for Norway.

For England and Germany a German size-distribution and an age-length key from Lofoten have been used.

For England and Germany a German size-distribution and an age-length key from Lofoten have been used.

Coastal cod excluded.

Table XII b 2. Arctic cod. Total catch by each country by age groups. 1000 fish. Region II a.

Year	1937			1938			1939		
	England & Germany	Norway	Total	England & Germany	Norway	Total	England & Germany	Norway	Total
6	-	-	-	-	-	-	-	-	-
7	605	592	1 197	317	519	836	129	344	473
8	4 076	6 287	10 363	1 608	4 635	6 243	818	2 373	3 191
9	4 837	11 279	16 116	2 667	11 675	14 342	4 265	15 960	20 225
10	2 368	7 165	9 533	1 976	9 338	11 314	3 659	17 838	21 497
11	1 354	4 524	5 878	1 036	4 851	5 887	1 112	7 363	8 475
12	435	1 438	1 873	384	1 724	2 108	355	2 731	3 086
13	256	760	1 016	114	548	662	134	1 211	1 345
14	129	397	526	102	434	536	58	522	580
15	222	644	866	27	114	141	23	261	284
16	134	362	496	94	434	528	10	107	117
17+ older	480	1 321	1 801	184	822	1 006	46	476	522
Total	14 896	34 769	49 665	8 509	35 094	43 603	10 609	49 186	59 795

Note : For England and Germany a German size-distribution and an age-length key from Lofoten have been used.

Coastal cod excluded.

Table XII b 3. Arctic cod. Total catch by each country by age groups. 1000 fish. Region II a.

NORWAY						
Year	1940	1941	1942	1943	1944	1945
Age						
6	25			16		
7	398	679	297	296	481	57
8	1 470	2 225	2 116	1 174	1 741	3 387
9	5 198	4 383	5 039	4 097	4 218	3 185
10	17 565	7 504	4 610	6 398	8 571	3 984
11	9 730	12 877	4 545	3 692	9 426	6 519
12	3 354	4 539	7 429	2 687	3 649	4 838
13	881	1 597	3 891	3 443	1 558	2 236
14	465	434 x)	934	1 076	1 258	922
15	171		372	221	764 x)	784
16	37		127	150 x)		253
17	380 x)		28			57 x)
Total	39 674	34 238	29 388	23 250	31 666	26 222

x) = + older

Coastal cod excluded.

Table XII b4. Arctic cod. Total catch by each country by age groups. 1000 fish. Region II a. Coastal cod excluded.

Year	1946			1947			1948		
	England	Norway	Total	England & Germany	Norway	Total	England & Germany	Norway	Total
6	-	-	-	-	-	-	90	51	141
7	2	29	31	37	243	280	127	177	304
8	57	689	746	179	888	1 067	376	699	1 075
9	1 274	18 083	19 357	655	5 039	5 694	456	1 106	1 562
10	507	7 492	7 999	2 986	24 898	27 884	1 301	3 828	5 129
11	406	5 892	6 298	1 044	8 514	9 558	4 057	12 796	16 853
12	576	7 773	8 349	535	3 694	4 229	830	2 746	3 576
13	350	4 618	4 968	809	5 118	5 927	430	1 577	2 007
14	126	1 777	1 903	527	3 230	3 757	519	1 978	2 497
15	25	311	336	483	2 949	3 432 x)	756	2 980	3 736 x)
16	21	311	332						
17	26	356	382 x)						
Total	3 370	47 331	50 701	7 255	54 573	61 828	8 942	27 938	36 880

Note : For England is used a Norwegian size-distribution of trawl samples Røstbank and an age-length key from Lofoten.

For England and Germany a German size-distribution and an age-length key from Lofoten have been used.

x) = + older

Table XII b 5. Arctic cod. Total catch by each country by age groups. 1000 fish. Region II a. Coastal cod excluded.

Year	1949			1950			1951			1952		
	England & Germany	Norway	Total	England Germany & Others	Norway	Total	England & Germany	Norway	Total	England & Germany	Norway	Total
5							6		6			
6	28	11	39	-	-	-	67	46	113	27	15	42
7	876	363	1 239	547	278	825	372	507	879	491	333	824
8	1 744	1 528	3 272	1 975	2 888	4 863	2 348	5 218	7 566	1 649	1 851	3 500
9	723	1 450	2 173	1 375	4 365	5 740	2 607	11 396	14 003	3 693	8 056	11 749
10	559	1 900	2 459	523	2 779	3 302	1 115	7 566	8 681	2 055	8 714	10 769
11	542	2 485	3 027	257	1 878	2 135	339	3 113	3 452	830	5 127	5 957
12	1 557	7 705	9 262	240	2 447	2 687	90	1 111	1 201	211	1 728	1 939
13	271	1 660	1 931	406	4 903	5 309	63	898	961	35	544	579
14	180	1 129	1 309	79	1 105	1 184	142	2 757	2 899	22	402	424
15	145	1 391	1 536	249 ^x	972	1 221	103 ^x	507	610	95 ^x	927	1 022
16	89	854	943		1 335	1 335		568	568		379	379
17	37	351	388		1 273	1 273		606	606		251	251
18	28	270	298		516	516		282	282		174	174
19	23	216	239		213	213		82	82		134	134
20					157	157		121	121		22	22
21					151	151		23	23		20	20
22					95	95		40	40		5	5
23											8	8
Total	6 802	21 313	28 115	5 651	25 355	31 006	7 252	34 841	42 093	9 108	28 690	37 798

Note: For England and Germany a German size-distribution and an age-length key from Lofoten have been used.

England and Germany based on English and German size-compositions and a Norwegian age/length key from Lofoten.

See 1950.

See 1950.

x = + older

Table XII b 6. Arctic cod. Total catch by each country by age groups. 1000 fish. Region II a. Coastal cod excluded.

Age	1953			1954			1955			
	England & Germany	Norway	Total	England & Germany	Norway	Total	England	Germany	Norway	Total
5				8		8				
6	245	115	360	253	176	429	50	40	87	177
7	560	408	968	887	1 120	2 007	1 070	864	1 964	3 898
8	1 248	1 339	2 587	862	2 059	2 921	1 119	903	3 931	5 953
9	1 642	3 040	4 682	893	2 757	3 650	243	196	4 799	5 238
10	1 747	6 015	7 762	791	3 133	3 924	547	442	3 973	4 962
11	735	3 840	4 575	672	3 733	4 405	143	115	1 977	2 235
12	181	1 272	1 453	213	1 604	1 817	141	114	1 825	2 080
13	42	331	373	75	627	702	56	45	698	799
14	11	109	120	13	155	168	25	20	303	348
15	31 x	84	115	18	60	78	7	6	84	97
16		140	140		45	45	17 x	2	34	53
17		54	54		75	75		2	11	13
18		23	23		16	16		7	58	65
19		62	62		11	11		2	35	37
20		29	29		23	23		1	1	2
21		12	12		3	3			3	3
22									3	3
23		4	4							
Total	6 442	16 877	23 319	4 685	15 597	20 282	3 418	2 759	19 786	25 963

Note: See 1950.

See 1950.

England based on German age-composition.

x = + older

Table XII b 7. Arctic cod. Catch by each country by age groups. 1000 fish. Region II a. Coastal cod excluded.

Year	1956				1957				1958			
	England	Germany	Norway	Total	England	Germany	Norway	Total	England	Germany	Norway	Total
6	431	471	409	1 311	154	79	30	263	32	16	57	105
7	914	998	1 507	3 419	1 676	861	1 214	3 751	217	108	514	839
8	3 215	3 510	9 216	15 941	1 134	583	1 975	3 692	1 843	914	4 849	7 606
9	576	629	7 254	8 459	1 873	963	5 486	8 322	730	362	4 168	5 260
10	147	161	4 066	4 374	303	156	2 674	3 133	1 262	626	5 099	6 987
11	86	94	2 615	2 795	191	98	1 306	1 595	343	170	1 533	2 046
12	36	39	1 193	1 268	86	44	680	810	274	136	523	933
13	41	45	1 121	1 207	35	18	271	324	97	48	118	263
14	16	18	386	420	37	19	264	320	8	4	12	24
15	5	5	152	162	16	8	147	171	32	16	66	114
16	-	-	-	-	-	-	19	19	16	8	22	46
17	-	-	-	-	1	1	2	4	8	4	7	19
18	1	1		2								
22	1	1		2								
23									8	4	19	31
Total	5 469	5 972	27 919	39 360	5 506	2 830	14 068	22 404	4 870	2 416	16 987	24 273

Note:

See 1955

See 1955

See 1955

Table XII c 1. Arctic cod. Total catch by each country by age groups. 1000 fish. Region II b.

Year	1932	1933	1934	1935	1936	1937	1938	1939	1946		
									England Germany Norway	USSR	Total
1										2	2
2										17	17
3	275	18		186					187	12	199
4	1 494	851	357	1 769	564	453	1 000	39	4 241	32	4 273
5	3 710	3 607	4 600	16 809	4 984	7 401	4 332	1 438	10 291	45	10 336
6	5 376	4 643	7 595	15 645	8 933	15 205	20 858	7 735	3 742	29	3 771
7	1 975	3 144	3 688	6 332	11 096	15 558	23 391	11 233	3 680	17	3 697
8	1 511	2 275	2 221	3 725	13 306	8 559	12 062	7 541	6 611	26	6 637
9	1 546	1 387	1 031	1 304	6 253	2 467	3 865	7 308	28 378	129	28 507
10	653	851	119	419	1 740	554	1 066	2 799	3 430	44	3 474
11	258	573	40	186	94	-	67	661	748	13	761
12	206	370	59	93	47	101		117	936	8	944
13	103	351	59	47		50			62	3	65
14	52	203	59	47					62		62
15 +	17	222								1	1
Total	17 176	18 495	19 828	46 562	47 017	50 348	66 641	38 871	62 368	378	62 746

Note: 1932 - 39.

For the years 1932 - 39, the German age-distribution has been used for all countries.

For England, Germany, Norway and Others the German age-distribution has been used.

Table XII c 2. Arctic cod. Total catch by each country by age groups. 1000 fish. Region II b.

Year	1947	1948	1949			1950			1951		
			Germany	USSR	Total	England	USSR	Total	England	USSR	Total
1									184	207	
2				3	25		69	75	70	113	206
3	267	54		3	25	58	434	537	937	680	1 819
4	11 408	2 541	21	260	2 313	971	868	2 006	4 891	2 750	8 596
5	32 174	12 272	141	752	7 350	4 573	3 403	8 702	6 014	3 189	10 353
6	10 962	13 461	2 033	1 114	25 903	9 785	5 253	16 406	11 357	4 323	17 640
7	1 159	11 623	1 378	450	15 046	7 272	7 285	15 882	10 137	2 239	13 923
8	1 426	3 244	354	70	3 490	2 883	3 220	6 658	7 282	638	8 910
9	10 517	2 325	88	24	922	854	1 209	2 251	1 855	43	2 135
10	11 408	1 352	25	3	230	164	457	678	390		439
11	3 654	5 028	42	-	346	29	343	406	60		68
12	4 456	1 352	58	3	502	13	160	189	25		28
13	1 426	378	13	-	107	18	69	95	25		28
14	267	432	-	-	-	9	46	60			
15			13	3	132	14	23	40			
Total	89 124	54 062	4 166	2 685	56 391	26 643	22 839	53 985	43 043	14 159	64 352

Note:

The Russian age-distribution has been used.

The sum of the German and the Russian age compositions is raised by:

$$\frac{\text{Total catch}}{\text{German+Russian catch}} = 8.231$$

The sum of the English and the Russian age compositions is raised by:

$$\frac{\text{Total catch}}{\text{English+Russian catch}} = 1.091$$

The sum of the English and the Russian age compositions is raised by:

$$\frac{\text{Total catch}}{\text{English+Russian catch}} = 1.125$$

Table XII c 3. Arctic cod. Total catch by each country by age groups. 1000 fish. Region II b.

Year	1952				1953				1954		
	England	Germany	USSR	Total	England	Germany	USSR	Total	England	USSR	Total
2			70	86	6		76	95			
3	479	48	1 719	2 745	590		4 558	5 967	531	254	872
4	11 180	85	10 203	26 234	2 945	5	3 667	7 669	6 312	5 696	13 341
5	7 380	50	4 245	14 267	10 670	833	10 161	25 109	8 170	4 639	14 231
6	2 400	8	1 501	4 777	4 300	360	4 559	10 685	11 335	5 109	18 269
7	2 675	11	1 783	5 461	1 065	195	1 146	2 789	1 530	1 703	3 592
8	1 446	8	1 337	3 411	1 216	188	815	2 572	544	705	1 388
9	2 075	5	1 243	4 061	745	82	357	1 372	270	470	822
10	262	2	563	1 011	303	71	76	522	152	391	603
11	16	1	563	709	53	42	51	169	59	333	436
12			211	258	9			10	10	196	229
13			23	28	-			-	14	39	59
14					1			1		20	22
15										20	22
Total	27 913	218	23 461	63 048	21 903	1 776	25 466	56 960	28 927	19 575	53 886

Note: The sum of the English, German and Russian age compositions is raised by:

$$\frac{\text{Total catch}}{\text{English+German+ Russian catch}} = 1.222$$

The sum of the English, German and Russian age compositions is raised by:

$$\frac{\text{Total catch}}{\text{English+German+Russian catch}} = 1.159$$

The sum of the English and the Russian age compositions is raised by:

$$\frac{\text{Total catch}}{\text{English + Russian catch}} = 1.111$$

Table XII c 4. Arctic cod. Total catch by each country by age groups. 1000 fish. Region II b.

Year	1955				1956			
	England	Germany	USSR	Total	England	Germany	USSR	Total
1							75	92
2			13	15			563	691
3	149		152	357	3	37	113	188
4	4 780	84	2 227	8 403	754	62	1 576	2 937
5	26 710	985	4 921	38 650	15 035	1 608	11 145	34 124
6	11 695	250	2 619	17 258	41 120	7 532	16 661	80 204
7	6 300	98	2 062	10 025	8 056	1 534	5 291	18 274
8	698	9	443	1 363	4 914	1 472	1 914	10 192
9	178		114	346	525	99	113	905
10	249		51	356	121	25	37	225
11	84		38	145	111			136
12	21		13	40	12			15
13	22		13	41	-			-
14	13			15	-			-
15					12			15
Total	50 899	1 426	12 666	77 014	70 663	12 369	37 488	147 998

Note: The sum of the English, German and Russian age compositions is raised by:

$$\frac{\text{Total catch}}{\text{English+German + Russian catch}} = 1.185$$

The sum of the English, German and Russian age compositions is raised by:

$$\frac{\text{Total catch}}{\text{English+German + Russian catch}} = 1.228$$

Table XII c 5. Arctic cod. Total catch by each country by age groups. 1000 fish. Region II b.

Year	1957				1958		
	England	Germany	USSR	Total	England	USSR	Total
2			299	369	1	344	437
3	145		7 987	10 027	792	11 538	15 622
4	1 745	63	4 093	7 276	16 669	50 373	84 942
5	3 066	982	4 293	10 284	9 341	10 419	25 036
6	10 530	2 751	13 079	32 502	4 012	4 736	11 084
7	12 209	3 623	13 179	35 771	5 432	6 200	14 738
8	2 935	487	5 242	10 683	3 002	2 153	6 531
9	1 093	453	1 298	3 507	522	258	988
10	124	13	349	599	137	86	283
11	13	8	99	148	35		44
12	34			42	-		-
13	3			4	-		-
14	6			7	10		13
Total	31 903	8 380	49 918	111 219	39 953	86 107	159 718

Note: The sum of the English, German and the Russian age compositions is raised by:

$$\frac{\text{Total catch}}{\text{English + German + Russian catch}} = 1.233$$

The sum of the English and Russian age compositions is raised by:

$$\frac{\text{Total catch}}{\text{English + Russian catch}} = 1.267$$

Table XIII.1) Arctic cod. Total catch by age groups for each region 1932 - 1958, 1000 fish.

	1932			1933			1934				1935					
	Reg. I	Reg. IIb	Total	Reg. I	Reg. IIb	Total	Reg. I	Reg. IIb	Total	Reg. IIa	Total	Reg. I	Reg. IIb	Total	Reg. IIa	Total
2	1 742		1 742	777		777	885		885		885	1 318		1 318		1 318
3	4 729	275	5 004	5 909	18	5 927	5 578		5 578		5 578	3 916	186	4 102		4 102
4	7 845	1 494	9 339	6 135	851	6 986	14 458		357	14 815		14 815	10 031	1 769	11 800	11 800
5	9 188	3 710	12 898	10 703	3 607	14 310	20 097	4 600	24 697		24 697	34 058	16 809	50 867		50 867
6	8 299	5 376	13 675	10 439	4 643	15 082	17 513	7 595	25 108	102	25 210	23 506	15 645	39 151	223	39 374
7	7 795	1 975	9 770	10 931	3 144	14 075	11 005	3 688	14 693	815	15 508	13 173	6 332	19 505	1 631	21 136
8	4 396	1 511	5 907	7 249	2 275	9 524	11 500	2 221	13 721	2 293	16 014	6 624	3 725	10 349	3 605	13 954
9	3 232	1 546	4 778	2 868	1 387	4 255	3 235	1 031	4 266	2 895	7 161	2 907	1 304	4 211	4 993	9 204
10	4 310	653	4 963	2 367	851	3 218	738	119	857	3 782	4 639	1 004	419	1 423	3 079	4 502
11	2 552	258	2 810	1 019	573	1 592	633	40	673	3 509	4 182	360	186	546	2 163	2 709
12	1 496	206	1 702	84	370	454	740	59	799	5 558	6 357	143	93	236	1 835	2 071
13	1 017	103	1 120	325	351	676	445	59	504	2 949	3 453	236	47	283	1 736	2 019
14	626	52	678	453	203	656	125	59	184	1 580	1 764	116	47	1 63	746	909
15	289	17	306	1 076	222	1 298	365		365	2 746	3 111	145		145	585	730
16	99		99	64		64	899		899	1 240	2 139	405		405	1 178	1 583
17				45		45	244		244	702 ^x	946 ^x	267		267	1 247 ^x	1 860 ^x
18				33		33						157		157		
19												135		135		
20												37		37		
21												17		17		
Total	57615	17 176	74 791	60 477	18 495	78 972	88 460	19 828	108 288	28 171	136 459	98 555	46 562	145 117	23 021	168 138

x = + older

Table XIII.2) Arctic cod. Total catch by age groups for each region 1932 - 1958. 1000 fish.

	1936				1937					
	Reg. I	Reg. IIb	Total	Reg. IIa	Total	Reg. I	Reg. II b	Total	Reg. II a	Total
2	801		801		801	2 235		2 235		2 235
3	8 437		8 437		8 437	5 160		5 160		5 160
4	11 033	564	11 597		11 597	18 445	453	18 898		18 898
5	13 176	4 984	18 160		18 160	11 770	7 401	19 171		19 171
6	50 779	8 933	59 712		59 712	25 095	15 205	40 300		40 300
7	28 410	11 096	39 506	1 756	41 262	52 406	15 558	67 964	1 197	69 161
8	16 961	13 306	30 267	6 318	36 585	27 617	8 559	36 176	10 363	46 539
9	5 123	6 253	11 376	9 170	20 546	9 170	2 467	11 637	16 116	27 753
10	1 304	1 740	3 044	6 462	9 506	1 569	554	2 123	9 533	11 656
11	278	94	372	2 356	2 728	1 029		1 029	5 878	6 907
12	313	47	360	1 153	1 513	692	101	793	1 873	2 666
13	344		344	1 099	1 443	92	50	142	1 016	1 158
14	28		28	983	1 011	125		125	526	651
15	1 225		1 225	628	1 853	569		569	866	1 435
16	19		19	168	187	33		33	496	529
17	261		261	1 129*	1 573*	66		66	1 801*	2 120*
18	183		183			94		94		
19						64		64		
20						64		64		
21						31		31		
Total	138 675	47 017	185 692	31 222	216 914	156 326	50 348	206 674	49 665	256 339

x = + older

Table XIII 3). Arctic cod. Total catch by age groups for each region 1932 - 1958. 1000 fish.

	1938			1939						
	Reg. I	Reg. II b	Total	Reg. II a	Total	Reg. I	Reg. II b	Total	Reg. II a	Total
2	211		211		211					
3	2 782		2 782		2 782					
4	7 073	1 000	8 073		8 073		39			
5	19 411	4 332	23 743		23 743		1 438			
6	13 415	20 858	34 273		34 273		7 735			
7	24 370	23 391	47 761	836	48 597		11 233		473	
8	25 919	12 062	37 981	6 243	44 224		7 541		3 191	
9	11 143	3 865	15 008	14 342	29 350		7 308		20 225	
10	2 860	1 066	3 926	11 314	15 240		2 799		21 497	
11	1 142	67	1 209	5 887	7 096		661		8 475	
12	238		238	2 108	2 346		117		3 086	
13				662	662				1 345	
14				536	536				580	
15	126		126	141	267				284	
16	40		40	528	568				117	
17				1 006 x	1 162 x				522 x	
18										
19										
20	117		117							
21	39		39							
Total	108 886	66 641	175 527	43 603	219 130		38 871		59 795	

x = + older

Table XIII 4). Arctic cod. Total catch by age groups for each region, 1932 - 1958. 1000 fish.

Age	1946				1947					
	Reg. I	Reg. II b	Total	Reg. II a	Total	Reg. I	Reg. II b	Total	Reg. II a	Total
1		2	2		2					
2		17	17		17					
3	4 121	199	4 320		4 320	1 886	267	2 153		2 153
4	6 599	4 273	10 872		10 872	16 744	11 408	28 152		28 152
5	6 604	10 336	16 940		16 940	26 516	32 174	58 690		58 690
6	11 161	3771	14 932		14 932	27 256	10 962	38 218		38 218
7	8 402	3 697	12 099	31	12 130	22 718	1 159	23 877	280	24 157
8	7 705	6 637	14 342	746	15 088	6 689	1 426	8 115	1 067	9 182
9	15 914	28 507	44 421	19 357	63 778	7 944	10 517	18 461	5 694	24 155
10	11 575	3 474	15 049	7 999	23 048	11 698	11 408	23 106	27 884	50 990
11	3 447	761	4 208	6 298	10 506	12 306	3 654	15 960	9 558	25 518
12	902	944	1 846	8 349	10 195	2 646	4 456	7 102	4 229	11 331
13	328	65	393	4 968	5 361	1 712	1 426	3 138	5 927	9 065
14	164	62	226	1 903	2 129	932	267	1 199	3 757	4 956
15	328	1	329	336	665				3 432 x	3 432 x
16	164		164	332	496					
17	164		164	382 x	546 x					
Total	77 578	62 746	140 324	50 701	191 025	139 047	89 124	228 171	61 828	289 999

x = + older

Table XIII 5). Arctic cod. Total catch by age groups for each region 1932 - 1958. 1000 fish.

Age	1948			1949						
	Reg. I	Reg. II b	Total	Reg. II a	Total	Reg. I	Reg. II b	Total	Reg. II a	Total
2	650		650		650	108	25	133		133
3	1 136	54	1 190		1 190	4 446	25	4 471		4 471
4	2 470	2 541	5 011		5 011	13 768	2 313	16 081		16 081
5	20 729	12 272	33 002		33 002	26 419	7 350	33 769		33 769
6	45 192	13 461	46 538	141	46 679	60 665	25 903	86 568	39	86 607
7	66 516	11 623	78 139	304	78 443	49 148	15 046	64 194	1 239	65 433
8	17 705	3 244	20 949	1 075	22 024	20 288	3 490	23 778	3 272	27 050
9	11 237	2 325	13 562	1 562	15 124	10 741	922	11 663	2 173	13 836
10	3 179	1 352	4 531	5 129	9 660	4 246	230	4 476	2 459	6 935
11	5 736	5 028	10 764	16 853	27 617	3 747	346	4 093	3 027	7 120
12	2 170	1 352	3 522	3 576	7 098	3 066	502	3 568	9 262	12 830
13	986	378	1 364	2 007	3 371	1 612	107	1 719	1 931	3 650
14	1 178	432	1 610	2 497	4 107	663		663	1 309	1 972
15				3 736 ^x	3 736 ^x	662	132	794	1 536	2 330
16						272		272	943	1 215
17						268		268	388	656
18									298	298
19									239	239
Total	178 884	54 062	220 832	36 880	257 712	200 119	56 391	256 510	28 115	284 625

x = + older

Table XIII 6). Arctic cod. Total catch by age groups for each region 1932 - 1958. 1000 fish.

Age	1950			1951						
	Reg. I	Reg. II b	Total	Reg. II a	Total	Reg. I	Reg. II b	Total	Reg. II a	Total
1						897	207	1 104		1 104
2		75	75		75	897	206	1 103		1 103
3	359	537	896		896	21 531	1 819	23 350		23 350
4	4 470	2 006	6 476		6 476	47 581	8 596	56 177		56 177
5	10 538	8 702	19 240		19 240	44 050	10 353	54 403	6	54 409
6	19 136	16 406	35 542		35 542	33 294	17 640	50 934	113	51 047
7	36 535	15 882	52 417	825	53 242	26 756	13 923	40 679	879	41 558
8	23 868	6 658	30 526	4 863	35 389	18 314	8 910	27 224	7 566	34 790
9	11 276	2 251	13 527	5 740	19 267	9 087	2 135	11 222	14 003	25 225
10	4 591	678	5 269	3 302	8 571	2 943	439	3 382	8 681	12 063
11	2 742	406	3 148	2 135	5 283	2 568	68	2 636	3 452	6 088
12	864	189	1 053	2 687	3 740	129	28	157	1 201	1 358
13	1 072	95	1 167	5 309	6 476	21	28	49	961	1 010
14	297	60	357	1 184	1 541	285		285	2 899	3 184
15	306	40	346	1 221	1 567				610	610
16	183		183	1 335	1 518				568	568
17	333		333	1 273	1 606				606	606
18				516	516				282	282
19				213	213				82	82
20				157	157				121	121
21				151	151				23	23
22				95	95				40	40
Total	116 570	53 985	170 555	31 006	201 561	208 353	64 352	272 705	42 093	314 798

Table XIII 7). Arctic cod. Total catch by age groups for each region 1932 - 1958. 1000 fish.

Age	1952				1953					
	Reg. I	Reg. II b	Total	Reg. II a	Total	Reg. I	Reg. II b	Total	Reg. II a	Total
2	957	86	1 043		1 043	220	95	315		315
3	21 991	2 745	24 736		24 736	42 212	5 967	48 179		48 179
4	93 994	26 234	120 228		120 228	100 109	7 669	107 778		107 778
5	99 548	14 267	113 815		113 815	87 435	25 109	112 544		112 544
6	69 505	4 777	74 282	42	74 324	44 893	10 685	55 578	360	55 938
7	43 594	5 461	49 055	824	49 879	19 668	2 789	22 457	968	23 425
8	14 190	3 411	17 601	3 500	21 101	11 810	2 572	14 382	2 587	16 969
9	8 985	4 061	13 046	11 749	24 795	4 300	1 372	5 672	4 682	10 354
10	3 894	1 011	4 905	10 769	15 674	2 061	522	2 583	7 762	10 345
11	2 003	709	2 712	5 957	8 669	907	169	1 076	4 575	5 651
12	1 488	258	1 746	1 939	3 685	505	10	515	1 453	1 968
13	68	28	96	579	675	95		95	373	468
14	43		43	424	467	52	1	53	120	173
15	21		21	1 022	1 043	41		41	115	156
16				379	379	57		57	140	197
17				251	251				54	54
18	19		19	174	193				23	23
19				134	134				62	62
20				22	22	12		12	29	41
21				20	20				12	12
22				5	5					
23				8	8				4	4
24						12		12		12
Total	360 300	63 048	423 348	37 798	461 146	314 389	56 960	371 349	23 319	394 668

Table XIII⁸). Arctic cod. Total catch by age groups for each region 1932 - 1958. 1000 fish.

Age	1954					1955				
	Reg. I	Reg. II b	Total	Reg. II a	Total	Reg. I	Reg. II b	Total	Reg. II a	Total
2	9		9		9	308	15	323		323
3	10 932	872	11 804		11 804	3 692	357	4 049		4 049
4	142 333	13 341	155 674		155 674	31 631	8 403	40 034		40 034
5	131 989	14 231	146 220	8	146 228	162 863	38 650	201 513		201 513
6	81 626	18 269	99 895	429	100 324	143 874	17 258	161 132	177	161 309
7	35 111	3 592	38 703	2 007	40 710	68 790	10 025	78 815	3 898	82 713
8	15 091	1 388	16 479	2 921	19 400	23 170	1 363	24 533	5 953	30 486
9	7 015	822	7 837	3 650	11 487	7 854	346	8 200	5 238	13 438
10	4 068	603	4 671	3 924	8 595	4 322	356	4 678	4 962	9 640
11	1 949	436	2 385	4 405	6 790	1 742	145	1 887	2 235	4 122
12	354	229	583	1 817	2 400	270	40	310	2 080	2 390
13	158	59	217	702	919	76	41	117	799	916
14	81	22	103	168	271	18	15	33	348	381
15	26	22	48	78	126	11		11	97	108
16				45	45				53	53
17	25		25	75	100				13	13
18				16	16				65	65
19				11	11				37	37
20				23	23				2	2
21				3	3	11		11	3	14
22									3	3
Total	430 767	53 886	484 653	20 282	504 935	448 632	77 014	525 646	25 963	551 609

Table XIII 9). Arctic cod. Total catch by age groups for each region 1932 - 1958. 1000 fish.

Age	1956				1957					
	Reg. I	Reg. II b	Total	Reg. II a	Total	Reg. I	Reg. II b	Total	Reg. II a	Total
0						282		282		282
1		92	92		92	657		657		657
2	892	691	1 583		1 583	2 283	369	2 652		2 652
3	10 430	188	10 618		10 618	6 100	10 027	16 127		16 127
4	21 127	2 937	24 064		24 064	20 608	7 276	27 884		27 884
5	95 659	34 124	129 783		129 783	16 376	10 284	26 660		26 660
6	170 596	80 204	250 800	1 311	252 111	40 336	32 502	72 838	263	73 101
7	66 122	18 274	84 396	3 419	87 815	47 213	35 771	82 984	3 751	86 735
8	26 013	10 192	36 205	15 941	52 146	25 841	10 683	36 524	3 692	40 216
9	5 451	905	6 356	8 459	14 815	6 790	3 507	10 297	8 322	18 619
10	2 764	225	2 989	4 374	7 363	2 412	599	3 011	3 133	6 144
11	1 062	136	1 198	2 795	3 993	1 404	148	1 552	1 595	3 147
12	129	15	144	1 268	1 412	379	42	421	810	1 231
13	75		75	1 207	1 282	42	4	46	324	370
14	27		27	420	447	9	7	16	320	336
15		15	15	162	177				171	171
16									19	19
17									4	4
18				2	2					
19										
20										
21	13		13		13					
22				2	2					
Total	400 360	147 998	548 358	39 360	587 718	170 732	111 219	281 951	22 404	304 355

Table XIII 10). Arctic cod. Total catch by age groups for each region 1932 - 1958. 1000 fish.

Age	1958				
	Reg. I	Reg. II b	Total	Reg. II a	Total
2	635	437	1 072		1 072
3	6 169	15 622	21 791		21 791
4	32 196	84 942	117 138		117 138
5	51 301	25 036	76 337		76 337
6	27 467	11 084	38 551	105	38 656
7	22 533	14 738	37 271	839	38 110
8	24 656	6 531	31 187	7 606	38 793
9	6 589	988	7 577	5 260	12 837
10	3 713	283	3 996	6 987	10 983
11	1 209	44	1 253	2 046	3 299
12	316		316	933	1 249
13	35		35	263	298
14	2	13	15	24	39
15	32		32	114	146
16				46	46
17	32		32	19	51
23				31	31
Total	176 885	159 718	336 603	24 273	360 876

Table XIV a¹. Arctic cod. Length distributions by countries and regions 1950-58. Per mille. Region I.

Year Length	1950				1951			1952				
	England	Germany (1950/51)	USSR	Norway long line	England	Germany (1951/52)	USSR	England	Germany (1952/53)	Norway	USSR	Norway long line
10-14			8				14				8	
15-19			34				30				30	
20-24			35				34				60	
25-29			45				41				79	
30-34			55				78			4	92	2
35-39			63			3	100		1	93	124	30
40-44			74		3	43	120		11	35	236	79
45-49	16	14	85		30	125	130		55	77	246	110
50-54	74	76	92	13	152	219	121		160	147	204	142
55-59	124	141	98	43	196	161	89		182	187	109	158
60-64	149	216	90	108	178	93	61		200	199	70	146
65-69	154	199	86	159	117	68	48		137	133	23	102
70-74	149	148	72	178	80	54	41		92	89	9	68
75-79	127	95	58	190	76	57	32		58	49	3	55
80-84	101	46	44	154	70	70	25		37	36	2	48
85-89	60	37	29	78	49	56	14		30	27	1	34
90-94	29	16	14	31	27	30	8		20	13		17
95-99	7	6	8	18	13	16	5		10	6		6
100-104	4	1	4	12	8	5	2		5	2		2
105-109	3	3	2	9	1		1		2			1
110-114	1		1	6			1					
115-119	2			1								

- Notes: 1) For method of length grouping and measurement used by each country see table XVII.
 2) German data from season 1950/51 referred to year 1950 etc. up to 1955.

Table XIV a². Arctic cod. Length distributions by countries and regions 1950-58. Per mille. Region I.

Year	1953					1954			1955				
	England	Germany (1953/54)	Norway	USSR	Norway long line	England	USSR	Norway long line	England	Germany	Norway	USSR	Norway long line
10- 14							1					3	
15- 19				3			1					9	
20- 24				16			3					3	
25- 29				57			15					9	
30- 34			27	119	3		54	15				13	
35- 39			134	155	22		148	67			4	41	1
40- 44	2	10	228	149	56	1	209	151	1		64	106	21
45- 49	35	66	230	134	102	32	186	166	16	26	183	172	80
50- 54	160	214	160	115	146	162	130	132	111	127	226	201	164
55- 59	202	272	91	90	163	223	90	91	209	245	206	153	188
60- 64	188	159	27	54	139	189	59	47	227	249	136	102	160
65- 69	141	123	18	39	112	134	40	51	157	148	79	61	120
70- 74	107	64	13	25	86	94	26	54	106	90	42	43	103
75- 79	71	45	9	17	62	69	16	39	72	49	25	30	74
80- 84	44	26	5	10	43	45	10	53	48	29	19	19	47
85- 89	27	13	4	7	27	26	5	42	27	22	9	11	23
90- 94	12	7	2	4	17	15	3	40	14	9	4	6	11
95- 99	4	1	1	3	10	7	1	22	7	3	2	3	5
100-104	3		1	2	5	3	1	16	3	2		1	2
105-109	2			1	3			8	1	1		1	1
110-114	1				2			3	1				1
115-119	1				1			1					
120-124					1			1					
125-129													
130-134								1					

- Notes:
- 1) For method of length grouping and measurement used by each country see table XVII.
 - 2) German data from season 1953/54 referred to year 1953.

Table XIV a³. Arctic cod. Length distributions by countries and regions 1950-58. Per mille. Region I.

Year	1956				1957				1958			
	England	Germany	USSR	Norway long line	England	Germany	USSR	Norway long line	England	Germany	USSR	Norway long line
10-14			3				1				2	
15-19			8				2				6	
20-24			5				4				25	
25-29			15				43				47	1
30-34			22				77				105	42
35-39			39				100	1	1		137	136
40-44	1		80	9	7		102	12	23	17	136	172
45-49	12	3	131	62	40	1	86	40	98	138	136	146
50-54	71	51	163	153	106	25	83	72	188	226	119	94
55-59	165	152	155	219	135	74	97	118	163	164	92	82
60-64	247	247	132	206	178	169	105	172	149	125	75	83
65-69	184	210	93	144	154	236	90	182	106	103	64	80
70-74	142	128	58	92	142	185	73	161	99	98	57	63
75-79	78	81	37	52	96	168	53	108	73	57	49	46
80-84	49	48	23	30	70	73	32	61	51	39	37	26
85-89	25	39	16	17	33	30	22	38	24	17	25	16
90-94	15	18	9	8	21	17	14	21	14	8	12	9
95-99	7	12	4	4	9	17	9	10	6	4	7	4
100-104	3	8	2	3	7	3	4	4	4	2	3	1
105-109	1	2	1	2	1	2	2	1	1	1	1	1
110-114		1		2	1		1			1		1

Note: For method of length grouping and measurement used by each country see table XVII.

Table XIV b¹. Arctic cod. Length distributions by countries and regions 1950-58. Per mille. Region II a.

Year Length	1950			1951			1952		
	England	Germany	Norway long line	England	Germany	Norway long line	England	Germany	Norway long line
45- 49	30	2	1				3		
50- 54	40	4	1	16	2	2	13	5	1
55- 59	55	25	1	69	22	4	14	9	1
60- 64	135	72	7	60	63	14	37	55	7
65- 69	130	96	29	97	103	42	93	85	24
70- 74	140	155	60	105	149	86	157	139	56
75- 79	144	177	103	173	171	135	171	156	98
80- 84	79	138	122	145	174	171	167	180	156
85- 89	80	93	132	132	139	169	175	160	183
90 - 94	42	86	126	115	90	138	82	112	178
95- 99	38	65	127	40	51	100	55	60	133
100-104	59	58	121	29	22	61	25	27	84
105-109	16	13	89	13	7	43	6	10	45
110-114	6	10	51	3	4	22		4	20
115-119		1	20	3	2	8	1		8
120-124	4	5	8		1	3	1		4
125-129			4			1			2
130-134			1			1			1
135-139						1			
140-144	2								

Notes:

- 1) For method of length grouping and measurement used by each country see table XVII.
- 2) German data from season 1949/50 referred to year 1950 etc. up to 1955.
- 3) Coastal cod not excluded.

Table XIV b². Arctic cod. Length distributions by countries and regions 1950-58. Per mille. Region II a.

Year Length	1953			1954			1955		
	England	Germany	Norway long line	England	Germany	Norway long line	England	Germany	Norway long line
45- 49	1	4	1	3	1	1			
50- 54	8	10	1	6	6	1	2	1	1
55- 59	20	37	2	21	27	4	7	9	3
60- 64	38	62	7	51	87	8	32	45	12
65- 69	48	104	22	101	147	18	77	108	35
70- 74	140	148	54	126	155	50	136	146	77
75- 79	176	176	103	149	149	100	161	168	121
80- 84	183	149	151	148	138	151	166	149	156
85- 89	148	121	181	135	107	174	149	135	171
90- 94	118	88	200	118	77	169	121	99	162
95- 99	69	54	140	85	55	132	78	65	117
100-104	31	28	76	43	31	96	46	40	72
105-109	17	11	37	6	12	55	14	19	38
110-114	3	5	15	4	5	27	7	11	18
115-119		1	7	2	2	11	3	4	9
120-124			2	1	1	4	1		4
125-129			1	1		1			2
130-134									1

Notes: See table XIV b¹.

Table XIV b³. Arctic cod. Length distributions by countries and regions 1950-58. Per mille. Region II a.

Year Length	1956			1957			1958		
	England	Germany	Norway long line	England	Germany	Norway long line	England	Germany	Norway long line
40- 44				2			5	1	
45- 49				9	2	2	27	5	1
50- 54	5	6	1	30	11	4	53	12	3
55- 59	33	39	6	47	22	8	68	14	6
60- 64	118	130	22	100	83	19	73	25	14
65- 69	121	164	48	134	136	54	85	55	35
70- 74	161	171	97	200	205	100	115	82	77
75- 79	135	166	134	150	169	119	139	131	129
80- 84	164	129	157	110	110	125	132	148	162
85- 89	102	95	168	71	97	132	93	118	147
90- 94	81	48	138	52	70	140	76	106	134
95- 99	47	27	99	44	46	124	52	107	120
100-104	21	13	66	31	22	88	46	92	91
105-109	9	5	35	10	15	48	19	56	49
110-114	3	4	19	5	8	23	9	30	19
115-119		2	8	3	2	9	5	14	8
120-124			2	1	1	4	2	3	3
125-129				1	1	1	1	1	1
130-134						1			

Table XIV c¹. Arctic cod. Length distributions by countries and regions 1950-58. Per mille. Region II B.

Year	1950		1951		1952			1953			1954	
	England	USSR	England	USSR	England	Germany (1952/53)	USSR	England	Germany (1953/54)	USSR	England	USSR
10- 14		2		8			4					
15- 19		6		20			15			2		
20- 24		14		30			37			9		4
25- 29		28		32			35			22		11
30- 34		32		46			58			58		30
35- 39		25		79			112			115		77
40- 44		43	6	107	1	69	188	1		163	2	151
45- 49	11	65	33	130	57	415	201	9		156	52	218
50- 54	74	103	99	130	224	289	150	70	45	143	178	164
55- 59	148	133	152	111	219	79	73	196	181	132	226	108
60- 64	208	125	197	99	147	27	36	286	279	86	190	64
65- 69	203	116	180	74	112	15	27	168	193	50	144	53
70- 74	164	100	144	53	91	44	24	124	132	26	105	41
76- 79	94	81	100	40	65	31	18	71	74	15	51	26
80- 84	54	53	55	24	47	17	10	46	46	11	26	16
85- 89	20	36	21	11	20	9	6	18	32	6	15	12
90- 94	11	17	7	3	11	4	4	8	11	3	7	8
95- 99	8	12	3	1	3	1	1	2	5	1	3	6
100-104	3	4	2		2			1	2	1	1	3
105-109	1	3										2
110-114	1	1	1		1							1

- Notes: 1) For method of length grouping and measurement used by each country see table XVII.
 2) German data for seasons 1952/53 and 1953/54 referred to years 1952 and 1953 respectively.

Table XIV c². Arctic cod. Length distributions by countries and regions 1950-58. Per mille. Region II b.

Year	1955			1956			1957			1958		
	England	Germany	USSR	England	Germany	USSR	England	Germany	USSR	England	Germany	USSR
10- 14			9			4			1			
15- 19			15			8			3			
20- 24			6			16			13			2
25- 29			5			13			31			27
30- 34			8			9			37			62
35- 39			16			12			61	1		134
40- 44	1		41	1	2	32	5		64	31	11	199
45- 49	22	3	89	9	19	69	18	8	56	163	53	210
50- 54	143	72	165	82	73	112	65	28	66	255	159	127
55- 59	280	303	240	171	159	163	113	65	97	159	106	59
60- 64	273	322	197	273	277	196	160	122	123	95	93	39
65- 69	130	124	93	208	222	174	154	178	136	72	104	37
70- 74	70	79	53	143	125	97	199	216	124	71	123	36
75- 79	39	48	31	57	68	49	143	166	92	54	148	29
80- 84	23	28	14	32	33	24	87	116	50	49	94	20
85- 89	10	10	7	13	13	13	32	44	23	27	71	11
90- 94	5	4	4	6	6	5	14	25	10	15	21	5
95- 99	3	3	1	3	3	2	6	15	6	5	10	2
100-104	1	2	1	2		1	3	9	4	2	5	1
105-109		1					1	5	4	1	2	
110-114		1						2	1			
115-119								1				

Note: 1) For method of length grouping and measurement used by each country see table XVII.

2) 1956. German data from April/July.

Table XV. Arctic cod. Growth data.

	Region I			Region II b		Region II a
	Norway March-June	Norway Mostly October	USSR	England	USSR	Norway
1			18.10		13.15	
2			27.20		29.47	
3			36.95		38.20	
4	45.83	48.64	43.97		47.19	
5	52.60	57.05	50.99	60.5	54.99	
6	60.86	65.91	59.99	67.2	63.51	68.75
7	70.33	74.55	68.37	74.6	71.50	74.54
8	79.23	83.75	77.61	80.6	79.64	81.90
9			84.54	87.1	86.24	86.92
10			89.48	92.0	90.75	91.72
11			94.29	94.3	97.29	95.53
12			101.44	103.0	98.17	99.02
13			105.71	107.0	109.53	101.65
14			109.71	110.0	109.41	105.98
15				112.0	114.67	
16					115.50	

- Notes:
- 1) Region I. Norwegian data from long lines and trawl 1949-58. Russian data trawl 1950-58.
 - 2) Region II b. In English data (1949-58) years are calendar years, but birthday of fish April 1st. Russian figures based on age/length keys 1950-58.
 - 3) Region II a. Norwegian data from long lines Lofoten 1950-57 comprising all spawning groups.

Table XVI. Arctic cod. Length-weight relations. Kilos. Round fresh weight.

Length (cm)	Weight					USSR (Region I)		
	Germany Region I	Germany Region IIa	Germany Region IIb	Norway Spring ^{x)}	Norway Skrei ^{xx)}	England (Region IIb)	Length (cm)	Weight
35				0.498			22.5	0.125
40				0.639			27.5	0.200
45				0.821			32.5	0.350
50	1.134	1.278	1.139	1.119		1.140	37.5	0.500
55	1.400	1.548	1.506	1.486			42.5	0.720
60	1.663	1.872	1.838	1.905		1.800	47.5	0.950
65	2.235	2.580	2.280	2.394	2.782		52.5	1.300
70	2.801	2.915	2.820	3.049	3.183	3.000	57.5	1.700
75	3.361	3.478	3.432	3.869	3.680		62.5	2.050
80	4.003	4.235	4.324	4.316	4.527	4.500	67.5	2.600
85	5.155	5.033	5.106	5.686	5.283		72.5	3.200
90	6.083	5.875	6.140	6.514	6.293	6.480	77.5	3.800
95	7.345	7.740	7.682	7.876	7.479		82.5	4.800
100	8.904	7.652	8.040	9.854	8.711	8.880	87.5	5.600
105	10.248	7.432	8.758	10.067	9.630		92.5	7.000
110		8.360			10.460	11.520	97.5	8.000
115					11.586		102.5	10.000
120						15.000	107.5	11.000
125							112.5	15.000
130						19.200	117.5	17.000

x) Based on samples taken in Region I in May - June 1958.

xx) Based on samples taken in Region II a in March in the years 1946 - 1955.

Table XVII. Arctic cod. List of length grouping and method of length measurement used by each country.

Fish recorded as "60 - 64" cm.

England: 60.0 to 64.9 cm, midpoint 62.5 cm.

Germany: 60.0 to 64.9 cm, midpoint 62.5 cm.

Norway: 59.5 to 64.4 cm, midpoint 62.0 cm.

USSR: 60.5 to 65.4 cm, midpoint 63.0 cm.

Note. As from Jan. 1st 1958, English measurements are to the nearest cm, and will therefore become identical to Norwegian.

Method of measurement.

All countries measure total length, but in England the tail is smoothed to give maximum possible length.

