

ANNUAL MEETING - JUNE 1955Canadian Report on Conversion Factors

Conversion factors used for ICNAF publications of Canadian fisheries statistics have been reviewed in the light of Canadian studies by the Fisheries Research Board and the Department of Fisheries. Summaries, the results of conversion factor experiments, are appended. Revised conversion factors are proposed for use in converting current Canadian statistics submissions.

Conversion Factors to Fresh Weight (Cod and Haddock)

	<u>Used Previously</u>		<u>Proposed</u>	
	<u>guttled</u>	<u>round</u>	<u>guttled</u>	<u>round</u>
<u>Canada (excl. Nfld.)</u>				
head on, fresh gutted	-	1.22	-	1.2
heavy salted, wet	2.0	2.44	2.3	2.7
<u>Newfoundland</u>				
head on, fresh gutted	-	1.22	-	1.2
heavy salted, wet	2.20	2.68	2.3	2.7
light salted, dry	4.00	4.88	4.0	4.8

It is proposed that the Canadian groundfish conversion factors to round fresh weight should be tentatively amended to 1.2 for fresh gutted, 2.7 for heavy salted wet and 4.8 for light salted dry. Canadian statistics of landings are now presented to the Commission in these categories.

- THE END -

CONVERSION FACTOR SUMMARY FOR ICNAF OF STUDIES BY
FISHERIES RESEARCH BOARD OF CANADA

A. NEWFOUNDLAND FISHERIES RESEARCH STATION

Table I - Cod

as submitted ICNAF, 1953

Area	No. of Fish	Weight in Pounds			Per Cent Gills of Evisc. Gills In	Conversions	
		Round	Eviscerated Gills Out	Gills		Evisc. Gills Out to Round	Evisc. Gills In to Round
Grand Bank	1058	8420.41	6628.34	329.920	4.74	1.27	1.21
Flemish Cap	120	1060.3	861.7	46.548	5.12	1.23	1.17
Off Cape Breton	78	353.30	296.14	14.379	4.63	1.19	1.14
Fortune Bay	66	236.25	194.94	8.922	4.38	1.21	1.16
St. John's	103	548.7	448.3	20.309	4.33	1.22	1.17
TOTAL	1425	10618.95	8429.42	420.078	4.75	1.26	1.20
St. John's	1574	8813.17	7013.33			1.26	1.20
Bonavista	219	976.2	758.4			1.29	1.23
S.W. Coast, Nfld.	408	2038.1	1667.1		4.75*	1.22	1.16
Labrador	635	2086.3	1625.5			1.28	1.22
TOTAL	2836	13913.77	11064.33			1.26	1.20

*Eviscerated, gill in weight, calculated using 4.75 for per cent that gill weight is of eviscerated, gill in weight

Table II - Cod

Domino, Labrador -- 40 fish

<u>State of Fish</u>	<u>Per Cent Waste</u>	<u>Per Cent of Round Weight</u>
Round, fresh	0	100
Head on, eviscerated with gills	17.6	82.4
Head off, eviscerated	38.9	61.1
Fresh, split	45.9	54.1

1
3
1

Table III - Haddock

<u>Area</u>	<u>No. of Fish</u>	<u>Weight in Pounds</u>			<u>Per Cent Gills of Evisc., Gills in</u>	<u>Conversions Evisc., Evisc., Gills Out Gills in to Round to Round</u>
		<u>Round</u>	<u>Eviscerated Gills Out</u>	<u>Eviscerated Gills In</u>		
Grand Bank	218	698.43	585.05	23.35	3.84	1.19 1.15
				608.40		

B. ATLANTIC BIOLOGICAL STATION
not previously reported to ICNAP

Table IV

Area	Date	Observer	No. Fish	Weight in Pounds			Conversion Factors	
				Round	Evisc-erated Gills		to Round	Evisc-erated Gills
					Out	In		
<u>Cod</u>								
Lockeport, N. S.	Oct./53	Fitzgerald	78	565.6	444.1	465.7	1.27	1.21
East Ferry, Digby Co., N.S.	June- July/54	Fitzgerald	170	1968		1775		1.11
Lockeport, N.S.	Oct.- Nov./54	Fitzgerald	155	879.5	752.8	785.7	1.17	1.12
At sea "Judith Irene"	Oct.- Nov./47	Fraser	301	4894.1		4207.4		1.16
<u>Haddock</u>								
Digby Co., N.S.	June- July/54	Fitzgerald	180	489		431		1.13
Lockeport N.S.	Oct.- Nov./54	Fitzgerald	104	357.9	299.5	308.8	1.20	1.16

Table V

Salted Cod - Dory schooner "Judith Irene" sailed Oct. 3/47, landed Nov. 11/47 - landed 274,000 lb.
 Green salted cod (172,000 lb. from sub-area 3 followed by 102,000 lb. from sub-area 4).
 Individual fish tagged and weighed* from round through to dry state by M.F. Fraser.

Area	No. Fish	Weight in Pounds			Conversion Factors to Round		
		Round	Split	Green salted as landed	Split	Green salted	Heavy salted dry
Sub-area 3	142	2461.9	1482.3		1.66		
Sub-area 4	159	2432.2	1511.0		1.61		
TOTAL	301	4894.1	2993.3		1.64		
Sub-area 3	117	1985.9		724.4		2.74	
Sub-area 4	116	1840.0		676.1		2.72	
TOTAL	233	3825.9		1400.5		2.73	
Sub-area 3	129	2156.1					4.05
Sub-area 4	139	2190.3					4.08
TOTAL	268	4346.4					4.07

*Weights of round, gutted and split fish subject to unknown errors caused by motion and vibration of vessel at sea. Green salted and dry weights taken onshore are more accurate.
 Dial spring balance used throughout.

C. GROUND FISH CONVERSION FACTORS

Summarized by Markets and Economics Service,
Department of Fisheries, Canada, 1955

Table VI

Newfoundland

Light Salted Hard Dried

	Original Data (1) (lbs)	Basis Round = 100 (lbs)	Conversion to Round
Round	447	100.0	-
Split	275	61.5	1.63
Saltbulk, Kench	200	44.0	2.27
(to 41% M.C.	100	22.0	4.47
Dried (to 38% M.C.	-	20.9	4.78

Heavy Salted Hard Dried

	Original Data (1) (lbs)	Basis Round = 100 (lbs)	Conversion to Round
Round	377	100.0	-
Split	232	61.5	1.63
Saltbulk, Kenched	123	32.5	3.08
(47% M.C.	100	26.4	3.77
Dried (45% M.C.	-	25.4	3.94
(40% M.C.	-	23.3	4.29

Maritime Provinces

Salted Groundfish

	Original Data (2) (lbs)	Conversion to Round
Round	100.0	-
Split	60.0	1.67
Saltbulk, pickled		
Light salted	50.0	2.00
Heavy salted	42.0	2.38

- (1) Figures taken from "The Dried Codfish Industry" by Norman L. MacPherson, St. John's, Newfoundland, 1935, table 6, page 40.
- (2) Taken from a Note of Dr. H. Fougere, "Salting Codfish, III-A quantitative study of Yields" published in Progress Reports of the Atlantic Coast Stations, Fisheries Research Board of Canada, No. 52, January 1952, p.22 and following.