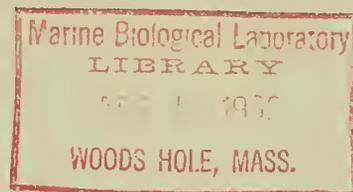


**LENGTH AND AGE FREQUENCY SAMPLES  
COLLECTED FROM GEORGES BANK  
AND GULF OF MAINE HADDOCK  
LANDINGS, 1956-60**



**SPECIAL SCIENTIFIC REPORT-FISHERIES No. 439**

UNITED STATES DEPARTMENT OF THE INTERIOR  
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UNITED STATES DEPARTMENT OF THE INTERIOR, Stewart L. Udall, *Secretary*  
FISH AND WILDLIFE SERVICE, Clarence F. Pautzke, *Commissioner*  
BUREAU OF COMMERCIAL FISHERIES, Donald L. McKernan, *Director*

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by

James A. McCann and Frank A. Dreyer



United States Fish and Wildlife Service  
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# LENGTH AND AGE FREQUENCY SAMPLES COLLECTED FROM GEORGES BANK AND GULF OF MAINE HADDOCK LANDINGS, 1956-1960

by

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## ABSTRACT

The expansion in 1956 of the North Atlantic haddock investigation is discussed, and 100 tables containing the length and age frequency samples collected from the 1956-60 Georges Bank and Gulf of Maine commercial haddock landings are presented.

## INTRODUCTION

Since 1931, biologists of the Bureau of Commercial Fisheries have collected statistics of the commercial landings of haddock in the major New England ports. From 1931-55, interviews were conducted, and length and age frequency samples were collected from vessels which fished only the Georges Bank area (fig. 1).

In 1956 the haddock program was expanded to collect more samples from the Georges Bank landings and to extend the area sampled to the Gulf of Maine. The methods for the collection of data, interviews, and biological sampling were described by Schuck (1951), Rounsefell (1948, 1957), and Clark and Dreyer (1961).

Schuck (1951) also presented the length frequency, by 3-cm. length groups, of the

estimated numbers of haddock landed seasonally from Georges Bank for 1931-48. Clark and Dreyer (1961) presented the length frequency and age distribution (estimated numbers in the commercial landings) for Georges Bank and the Gulf of Maine fishery for 1956. The increased number of samples from Georges Bank after 1955 made possible the subdivision of this area into east and west statistical subareas and enabled a more complete presentation of the data. The Gulf of Maine data were divided into two statistical subareas, north and south, and were presented by season and 1-cm. groups for the length frequency samples and by season and 3-cm. groups for age distribution.

McCann and Dreyer (1962) have presented the basic sample data from Georges Bank for 1931-55. The purpose of this publication is to present all of the basic sample data for

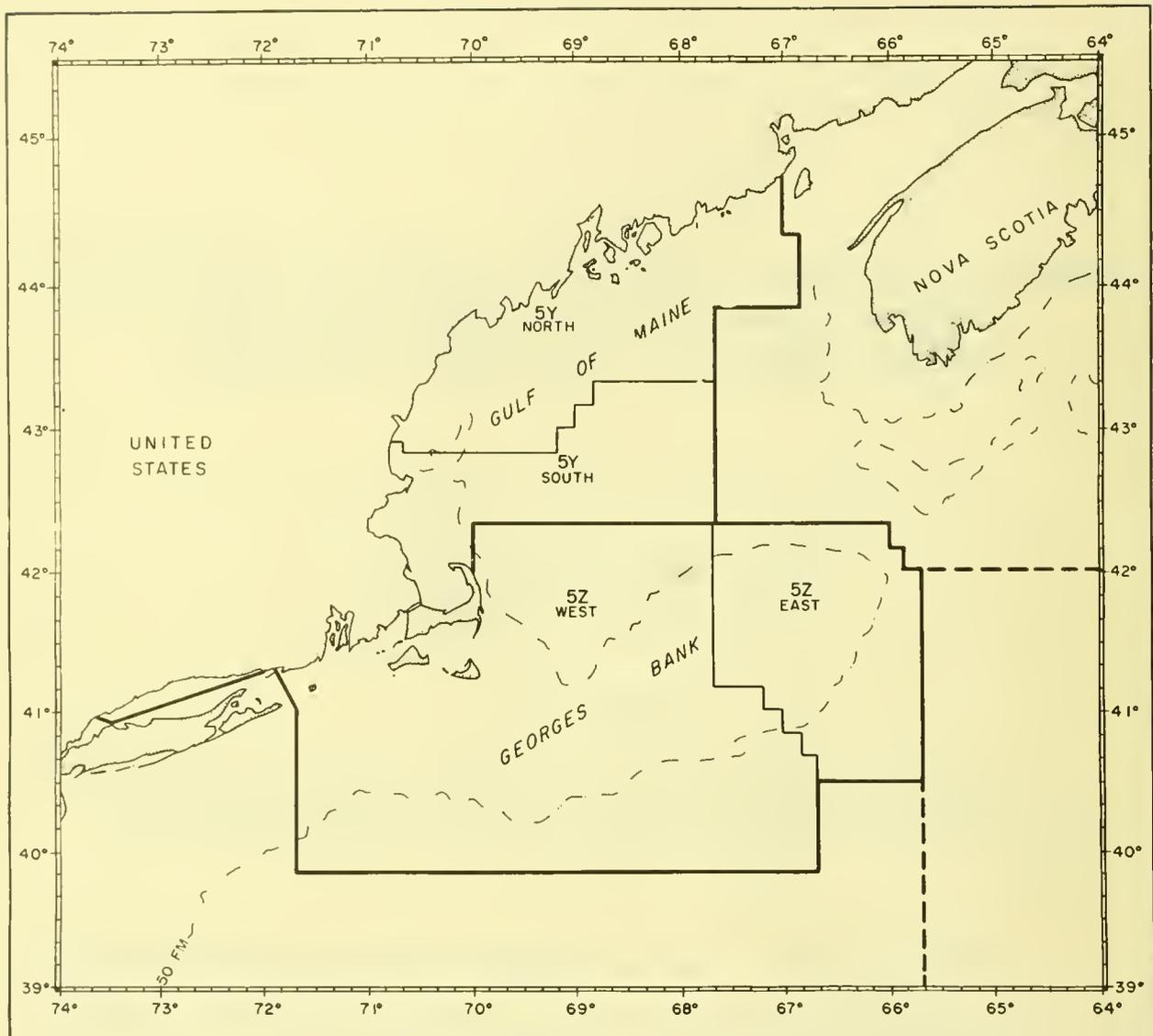


Figure 1.--Statistical subdivisions of Georges Bank and the Gulf of Maine, (ICNAF areas 5Y and 5Z).

the commercial landings from Georges Bank and the Gulf of Maine for 1956-60, thereby completing publication of all of the basic haddock data available for Georges Bank and the Gulf of Maine since 1931.

#### DEFINITION OF TERMS

The terminology used to describe various aspects of the North Atlantic haddock investigation has been presented in detail in the publications cited above. To assist the reader to understand the tables presented here, however, brief explanations are offered for the basic terms employed.

The statistical areas of the International Commission for the Northwest Atlantic Fisheries, ICNAF 5Y and 5Z, referred to in the tables and shown in figure 1, correspond to previously published area designation as follows: ICNAF 5Y for areas in the north Gulf of Maine (XXII B, C, and D) and the south Gulf of Maine (XXII E and F); and ICNAF 5Z for areas in the east Georges Bank (XXII J and M) and the west Georges Bank (XXII G, H, N, O, Q, R, S, and T).

Terms used here for time periods are "haddock years" and "haddock seasons." The "haddock year" differs from a calendar year

by 1 month, i.e., beginning February 1 and ending January 31 of the following year (Clark and Dreyer, 1961). The seasons of the "haddock year" are composed of 3-month periods with February through April for spring, May through July for summer, and so forth.

The market categories for haddock are "large" and "scrod." Large haddock weigh more than 2 1/2 pounds (gutted), and scrod haddock weigh 1 1/2 pounds to 2 1/2 pounds (gutted). Fish smaller than this are called "snapper haddock" if brought in to be sold, or "undersized haddock" when they are discarded at sea as being too small for commercial purposes.

Length frequency samples were taken only from haddock caught by vessels which fished in a clearly defined statistical division (such as east Georges Bank). A sample consists of measurements of 100 large haddock or 50 scrod randomly selected from the catch of a vessel.

Scale samples for the age frequency data were collected by sampling the entire range of sizes equally. Scales were taken from 20 large haddock or 15 scrod per sample.

Reference in the tables to "actual pounds landed in thousands" means the total pounds of haddock landed for each market category in the United States for the statistical areas mentioned. The manipulation of the sample

data to obtain the "estimated numbers in thousands" has been described by Clark and Dreyer (1961).

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1957. A method of estimating abundance of groundfish on Georges Bank. U.S. Fish and Wildlife Service, Fishery Bulletin 113, vol. 57, p. 265-278.
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Table 1.--Monthly length frequency samples, estimated numbers and actual pounds of large and scrod haddock landed from east Georges Bank (ICNAF 5Z East) 1956 haddock year<sup>1/</sup>

Length (cm.)	Large												Total
	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	
27													
8													
9													
30													
1													
2													
3													
4													
5													
6													
7													
8													
9	1												1
40	--												--
1	--								1				1
2	--								--				--
3	--						1		1		1		4
4	--						--		1	--	--		1
5	1						3	1	--	2	1	1	12
6	2				2	2	6	4	2	5	1	--	25
7	1	5			2	2	6	8	3	7	1	2	41
8	4	5			8	7	25	34	5	12	1	2	110
9	15	11	4	8	13	44	58	9	24	4	1	18	209
50	19	14	1	18	19	69	74	15	32	8	2	16	287
1	45	27	4	29	36	88	97	37	47	14	5	33	462
2	55	21	--	30	42	95	111	23	49	11	4	32	473
3	48	28	5	38	47	91	128	34	31	7	3	29	489
4	53	34	6	42	37	62	93	29	49	7	1	29	442
5	46	30	4	40	33	63	104	29	44	4	3	38	438
6	29	36	5	29	13	74	61	21	22	3	1	17	339
7	38	24	4	38	14	36	41	23	23	3	1	19	264
8	51	20	9	19	8	34	45	14	13	2	--	19	234
9	43	25	5	20	6	14	39	14	9	4	5	16	200
60	33	12	1	12	3	16	13	6	5	2	2	15	120
1	25	22	4	11	2	13	16	5	7	3	3	7	118
2	24	12	2	15	5	15	13	14	2	2	3	6	113
3	24	15	--	11	--	6	8	5	1	--	2	12	84
4	23	7	2	5	--	6	6	8	2	--	1	8	68
5	15	9	--	10	--	3	2	6	--	--	--	5	50
6	18	4	--	2	--	1	1	6	--	1		5	38
7	11	4	1	2	2	9	3	4	2	--		4	42
8	8	2	--	3		4	1	--	1	--		6	25
9	3	1	--	1		1	--	1	1	--		2	10
70	14	2	--	1		3	2	2		1		2	27
1	10	3	--			1	1	3	--	--		2	20
2	4	--	--			2	--	1	--	--		1	8
3	3	--	--			1	--	1	--	--		1	6
4	6	--	1				1	--	--	--		2	10
5	--	--						--	--	--		1	1
6	--	--						1	--	--		1	2
7	--	--							--	--			--
8		2							--	--			2
9									--	--			--
80									--	--			--
1									--	--			--
2										1			1
3													
4													
5													
Number measured	702	375	56	398	291	792	965	323	392	81	43	359	4777
Est. sample weight	2838	1417	202	1323	819	2418	2996	1160	1241	276	154	1331	16175
Actual lbs. landed (thousands)	3596	2939	399	1373	1090	1362	1332	645	790	536	561	692	15315
Est. number landed (thousands)	889	778	111	413	387	446	429	180	250	157	157	187	4384

<sup>1/</sup> The haddock year is February through January.

Table 1.--Monthly length frequency samples, estimated numbers and actual pounds of large and scrod haddock landed from east Georges Bank (ICNAF 5Z East) 1956 haddock year (continued)

Length (cm.)	Scrod												Total
	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	
27													
8													
9													
30													
1													
2						1							1
3						1	1			1			3
4						5	2			1	--		8
5	1				2	10	3	1	5	1	2	1	26
6	1			4	1	20	7	2	9	2	13	3	62
7	5			2	14	30	16	5	14	7	12	8	113
8	7			5	10	49	23	12	20	9	34	11	180
9	6		3	14	21	58	47	19	40	11	55	20	294
40	9	2	2	16	43	67	52	23	53	19	69	34	389
1	17	3	2	19	45	79	60	26	67	29	88	50	485
2	25	2	7	25	27	69	55	36	56	26	62	33	423
3	23	8	6	24	26	85	66	34	64	32	63	37	468
4	32	11	8	24	47	87	48	25	59	32	32	46	451
5	39	16	6	37	26	89	44	18	48	21	41	44	429
6	43	17	3	28	39	106	54	13	47	17	25	41	433
7	43	20	10	29	35	89	39	20	37	13	28	34	397
8	47	19	5	26	37	78	43	17	25	13	10	24	344
9	41	18	5	31	35	65	38	9	14	6	4	24	290
50	38	15	10	26	18	40	14	8	12	7	5	16	209
1	25	8	3	11	23	22	11	11	5	2	1	6	128
2	28	7	2	12	9	4	8	3	4	3	2	3	85
3	9	7	--	5	3	2	--	--	2	1		3	32
4	4	4	3		3	3	1	1	1	1		1	22
5	4	1			2	1	1	--					9
6	1	2			--			1					4
7					1								1
8													
9													
60													
1													
2													
3													
4													
5													
6													
7													
8													
9													
70													
1													
2													
3													
4													
5													
6													
7													
8													
9													
80													
1													
2													
3													
4													
5													
Number measured	448	160	75	338	467	1060	633	284	583	253	546	439	5286
Est. sample weight	983	370	153	636	802	1826	1109	515	1022	452	887	820	9575
Actual lbs. landed (thousands)	2268	2143	378	1803	1784	2867	3238	1613	2818	1177	929	538	21556
Est. number landed (thousands)	1034	926	185	958	1038	1664	1848	889	1608	660	572	288	11670

Table 2.--Monthly length frequency samples, estimated numbers and actual pounds of large and scrod haddock landed from west Georges Bank (ICNAF 5Z West) 1956 haddock year

Length (cm.)	Large												Total
	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	
27													
8													
9													
30													
1													
2													
3													
4													
5													
6								1					1
7								--					--
8								--					--
9							2	--	1				3
40							3	--	--	1			4
1				1			4	2	--	--			7
2				2			8	1	1	--			12
3				1			15	3	--	--	2		21
4				1		1	13	1	--	--	4		20
5				3	4	2	12	--	5	1	2		29
6				1	4	8	20	2	6	1	4		48
7	8	1	2	8	4	10	26	9	25	3	13	1	110
8	20	1	5	14	17	12	57	9	26	10	17	3	191
9	18	3	11	36	21	27	44	15	60	19	43	4	301
50	24	--	20	49	61	45	61	30	94	62	76	9	531
1	47	4	31	100	95	54	82	23	105	74	106	21	742
2	40	11	52	150	107	85	107	34	153	80	144	35	998
3	37	20	64	130	160	100	113	39	143	105	139	47	1097
4	37	14	71	160	139	117	127	39	141	114	181	61	1201
5	27	16	64	157	161	111	121	38	174	126	186	37	1218
6	33	23	64	136	137	117	87	36	121	122	176	63	1115
7	18	14	40	128	108	111	93	20	139	133	161	46	1011
8	30	23	33	118	81	109	55	25	113	108	142	59	896
9	23	23	37	113	82	80	69	19	105	89	137	48	825
60	22	16	19	68	65	77	54	22	76	82	92	32	625
1	16	14	20	63	55	67	31	25	65	77	68	28	529
2	16	12	29	54	53	60	25	13	47	48	75	24	456
3	10	15	19	52	56	38	26	12	53	50	70	28	429
4	20	7	23	50	37	39	23	7	33	42	48	26	355
5	10	12	19	44	32	38	14	9	35	36	42	13	304
6	13	6	17	36	33	30	18	8	31	34	28	15	269
7	5	7	9	38	34	28	19	6	20	18	29	6	219
8	11	4	12	30	36	25	10	4	18	28	22	13	213
9	9	1	10	19	23	22	10	4	18	14	22	5	157
70	3	4	7	22	17	15	1	7	6	14	12	4	112
1	1	2	6	16	5	12	1	1	13	11	11	5	84
2	3	--	12	14	13	10	2	--	15	9	8	5	91
3	2	--	3	4	1	7	1	1	4	15	9	1	48
4	1	1	--	3	--	1	1	--	4	6	7	3	27
5		--	1	4	2	1	--	--	1	4	3	--	16
6		1	2	2	2	2	1	--	1	3	1	--	15
7		1		3	1	2	--	1	--	2	1	1	12
8				--	1	1	1	--	--	3	1	1	8
9				2	1	--		1	--	1	1	1	7
80				--	1	1			1		--	1	4
1				--	1						--		1
2				1							--		1
3				--							--		--
4				1							--		1
86											1		1
Number measured	506	256	702	1834	1650	1465	1357	467	1853	1545	2084	646	14365
Est. sample weight	1932	1087	2676	6280	5752	5560	4507	1712	6969	6395	8351	2672	53893
Actual lbs. landed (thousands)	1507	1211	1228	3837	4807	2499	2235	1976	1890	2652	3034	2219	29095
Est. number landed (thousands)	395	285	322	1046	1378	671	673	539	503	641	757	537	7747

Table 2. --Monthly length frequency samples, estimated numbers and actual pounds of large and scrod haddock landed from west Georges Bank (ICNAF 5Z West) 1956 haddock year (continued)

Length (cm.)	Scrod												Total
	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	
27													
8													
9													
30													
1													
2													
3	1			1		2							4
4	--			1		1		1					3
5	1			7	3	1		--	4	2	2		20
6	2		1	12	10	2	1	4	8	5	2	1	48
7	7	2	1	18	16	10	8	4	6	5	9	3	89
8	9	1	2	32	23	18	12	17	20	13	7	2	156
9	15	6	3	40	44	32	29	28	36	20	23	5	281
40	12	3	17	47	53	40	34	55	54	31	27	17	390
1	9	5	20	61	67	47	47	56	87	42	64	24	529
2	15	5	17	46	67	32	42	70	88	59	70	40	551
3	15	2	18	52	73	37	65	87	96	50	88	47	630
4	21	3	8	47	80	34	75	89	107	68	84	48	664
5	24	7	9	30	65	31	73	70	94	65	100	52	620
6	33	12	24	46	71	23	50	68	67	67	88	48	597
7	32	11	12	55	72	35	42	58	64	45	60	51	537
8	27	12	28	55	59	39	65	42	44	46	53	33	503
9	25	16	26	56	71	53	42	15	36	19	38	35	432
50	24	12	26	54	77	43	36	11	28	20	34	22	387
1	16	12	18	47	49	40	31	5	28	17	27	23	313
2	5	7	14	23	29	45	23	2	9	8	21	11	197
3	4	6	5	15	18	26	13	1	8	3	7	7	113
4	4	6	8	5	4	21	10	2	8	3	5	4	80
5		9	5	3	3	14	3	1	1	--	1	10	50
6		7	6	2	--	10	--		6	5	2	4	42
7		8	2		--	8	--				1	2	21
8		7	3		1	2	--				1	4	18
9		3	1			1	1					2	8
60		1	1			--						1	3
1			1			1						--	2
2			1			1						1	3
3													
4													
5													
6													
7													
8													
9													
70													
1													
2													
3													
4													
5													
6													
7													
8													
9													
80													
1													
2													
3													
4													
5													
Number measured	301	163	277	755	955	649	702	686	899	591	814	499	7291
Est. sample weight	620	424	607	1388	1698	1326	1379	1253	1707	1147	1626	1023	14198
Actual lbs. landed (thousands)	968	1174	1234	2956	3379	1408	3107	6388	2749	1911	1950	1312	28536
Est. number landed (thousands)	470	452	563	1608	1901	689	1581	3498	1448	985	976	640	14811

Table 3.--Sample age composition of large and scrod haddock landings from east Georges Bank (ICNAF 5Z East) February-April 1956

Length (cm.)	Age in years										Scrod									
	Large									Total	Scrod									Total
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+	Total	
27																				
8																				
9																				
30																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				2
9												1	2							3
40												--	--	3	1					4
1												1	3	2	--					6
2												--	--	1	--					1
3												--	--	4	1					4
4												--	--	1	1	1				3
5												--	--	2	2	--				4
6												--	--	1	5	1	1			8
7												--	--	4	1	--				5
8												--	--	6	2	--				8
9												--	--	7	1	1				9
50																				
1				5	3			1	9					8	1	--				9
2				7	5	3	--		15					5	--	1				8
3		1		5	4	3	--		13					2	--	--	1			3
4				7	6	3	--		16					5	1	--				6
5				8	5	6	3		22					--	--	1				1
6				5	3	8	--		16					1	1					2
7				4	1	6	--		11											
8				3	--	8	--		11											
9				--	1	6	1		8											
60				4	1	6	7	1	19											
1					3	5	3	--	11											
2					1	2	3	2	8											
3					2	3	2	5	13											
4					--	5	3	3	11											
5					--	3	2	1	6											
6					--	1	--	2	4											
7					1	1	--	4	6											
8						1	1	1	3											
9							1	1	3											
70							1	1	2											
1							1	--	1											
2								1	--											
3								1	--											
4									1											
5									--											
6									--											
7									--											
8									1											
9									1											
80																				
1																				
2																				
3																				
4																				
5																				
Total		1	49	38	70	29	24	10	221		2	13	58	10	5	1				89

Table 4.--Sample age composition of large and scrod haddock landings from west Georges Bank (ICNAF 5Z West)  
February-April 1956

Length (cm.)	Age in years										Scrod									
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+	Total	
27																				
8																				
9																				
30																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
40																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
50																				
1																				
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6																				
7																				
8																				
9																				
60																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
70																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
80																				
1																				
2																				
3																				
4																				
5																				
Total		2	70	27	56	19	14	7	195		16	32	52	4	1					105

Table 5.--Sample age composition of large and scrod haddock landings from east Georges Bank (ICNAF 5Z East) May-July 1956

Length (cm.)	Large									Scrod									
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+	Total
27																			
8																			
9																			
30																			
1																			
2																			
3																			
4												2							2
5												--							--
6												2							2
7												3							3
8												7	1						8
9												11	1						12
40												13	1						14
1												11	1						12
2												9	2	1					12
3												5	1	2					8
4												6	4	2	1				13
5	1								1			4	5	7	--				16
6									--			1	9	8	--	1			19
7									--			1	9	4	--	--			14
8				1					1			1	2	5	--	--			8
9				--					2			7	7	1	--	1			16
50		1	7	--					8			4	5	--	--				9
1	--	10	--						10			6	4	1	--				11
2	--	10	4	2					16			3	4	--	--				7
3	--	2	11	1	1				15			1	3	--	--				4
4	--	17	4	2	3	1			27				1	2	--				3
5	1	8	6	2	--	--			17						1				1
6	--	4	3	3	--	--			10										
7	--	1	5	3	1	--			11										
8	--	2	2	4	1	--			9										
9	--	3	2	1	1	--			7										
60	1	1	2	1	--	1			6										
1	--	--	1	--	2	1			4										
2			1	1	3	2	--		7										
3					--	--			--										
4					--	1	1		2										
5					--	--	--		--										
6					--	--	1		1										
7					--	--	--		--										
8					--	--	--		--										
9					--	--	1		1										
70					1				1										
1									--										
2								1	1										
3																			
4																			
5																			
6																			
7																			
8																			
9																			
80																			
1																			
2																			
3																			
4																			
5																			
Total	1	6	77	32	23	12	6	1	158		76	57	53	5	2	1			194

Table 6.--Sample age composition of large and scrod haddock landings from west Georges Bank (ICNAF 5Z West)  
May-July 1956

Length (cm.)	Age in years									Scrod										
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+	Total	
27																				
8																				
9																				
30																				
1																				
2																				
3																				
4																				
5																				
6														1						1
7														7						7
8														5						5
9														8	1					9
40														21	--					21
1														31	4					35
2														15	7	1				23
3														17	3	3				23
4														16	2	4				22
5														3	2	2				7
6														9	6	4				19
7		1							1					5	9	9				23
8		--							--					3	6	11	1			21
9		1	2						3					2	10	9	1			22
50		--	4						4						5	19	1			25
1		2	9	2	2				15						4	8	1			13
2		3	12	4	--	1			20						9	13	--			22
3		1	17	6	3	1			28						3	6	2			11
4		--	22	5	2	1			30						3	5	2			10
5		--	37	1	2	1			41						1	3				4
6		--	27	10	8	--			45						1	2				3
7		--	25	5	6	3			39							1				1
8		--	11	11	10	1			33											
9		--	7	7	10	1			25											
60		--	11	3	9	5			28											
1		--	4	2	10	4			20											
2		1	--	5	9	6	3		24											
3		--	4	9	5	--			18											
4		2	1	11	4	2			20											
5			1	7	9	4	2		23											
6			2	9	6	3	1		21											
7			--	3	4	5	--		12											
8			--	9	4	2	1		16											
9			--	6	2	1	1		10											
70			--	3	5	6	--		14											
1			--	--	1	2	1		4											
2			--	5	3	3	1		12											
3			--	1	4	2	--		7											
4			--	1	--	1	2		4											
5			--	--	--	2	1		3											
6			--	--	2	1	1		4											
7			--	1	1	2	4		4											
8			--	--	--	--	--		--											
9			--	--	--	--	--		--											
80			--	--	--	--	--		--											
1			--	--	--	--	--		--											
2			--	--	--	--	--		--											
3			--	--	--	--	--		--											
4			--	--	--	--	--		--											
5			--	--	--	--	--		--											
Total		9	191	76	137	70	35	14	532		143	76	100	8						327

Table 7. --Sample age composition of large and scrod haddock landings from east Georges Bank (ICNAF 5Z East) August-October 1956

Length (cm.)	Large									Scrod										
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+	Total	
27																				
8																				
9																				
30																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
40																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
50																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
60																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
70																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
80																				
1																				
2																				
3																				
4																				
5																				
Total	1	4	97	54	40	15	5	2	218	116	56	41								212

Table 8. --Sample age composition of large and scrod haddock landings from west Georges Bank (ICNAF 5Z West) August-October 1956

Length (cm.)	Age in years										Scrod									
	Large									Total	Scrod									Total
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+	Total	
27																				
8																				
9																				
30																				
1																				
2																				
3																				
4																				
5																				
6																				
7																			3	
8																			5	
9																			6	
40																			13	
1																			20	
2																			14	
3																			21	
4																			22	
5																			24	
6																			19	
7																			15	
8																			16	
9																			16	
50																			9	
1																			7	
2																			3	
3																			--	
4																			1	
5																			1	
6																			3	
7																			--	
8																			--	
9																			--	
60																			--	
1																			--	
2																			--	
3																			--	
4																			1	
5																			4	
6																			7	
7																			1	
8																			3	
9																			3	
70																			2	
1																			2	
2																			3	
3																			1	
4																			--	
5																			--	
6																			--	
7																			--	
8																			--	
9																			--	
80																			1	
1																			1	
2																			--	
3																			--	
4																			--	
5																			--	
Total	15	27	106	35	33	12	3	4	235		149	36	30	4					219	

Table 9.--Sample age composition of large and scrod haddock landings from east Georges Bank (ICNAF 5Z East) November 1956 - January 1957

Length (cm.)	Age in years									Scrod										
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+	Total	
27																				
8																				
9																				
30																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				2
8												1	1							1
9												5	--							5
40												3	--							3
1												5	--							5
2												3	1							4
3												7	--	1						8
4												15	1	--						16
5												6	--	--						6
6												6	2	--						8
7												3	--	2						5
8	1								1			1	1	1						3
9									--			3	2							5
50									--			1	1							2
1		1							1			2	1							3
2		--	3	2					5				--							--
3		--	3	1	1				5				1							1
4		1	3	2	--				6											
5			2	2	2				6											
6			3	4	1	1			9											
7			--	1	--	--			1											
8			--	1	1	1			3											
9			3	2	3	1			9											
60			--	--	--	1			1											
1			1	1	--	--			2											
2				1	2	--			3											
3				1	--	1			2											
4					1			1	2											
5						1	1		2											
6							--	--	--											
7						2	--		2											
8						1	1		2											
9									--											
70									--											
1								1	1											
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
80																				
1																				
2																				
3																				
4																				
5																				
Total	1	2	18	18	11	9	3	1	63		55	12	9	1						77

Table 10. --Sample age composition of large and scrod haddock landings from west Georges Bank (ICNAF 5Z West) November 1956-January 1957

Length (cm.)	Large									Scrod									
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+	Total
27																			
8																			
9																			
30																			
1																			
2																			
3																			
4																			
5																			
6										1	2								3
7											1								1
8											2								2
9											13	1							14
40											13	--							13
1											17	--							17
2											17	--							17
3	1		1						2		29	--							29
4	--		--						--		17	1							18
5	--		--						--		30	1							31
6	--		--						--		32	2							34
7	--		--						--		12	2	2						16
8	--		--						--		25	1	1						27
9	1	3	3						7		10	4	5						19
50	--	4	5	4					13		8	5	4						17
1	4	5	11	3					23		2	3	--						5
2	--	10	23	6	1				40		1	1	--						2
3	1	7	20	9	3				40		1	3	1						5
4		4	23	7	2				36										
5		9	14	9	1				33										
6		1	26	10	5	2			44										
7		1	20	7	3	1			32										
8		2	19	12	7	2	1		43										
9	--		15	12	8	2	--		37										
60		1	11	6	10	5	--		33										
1	--		5	8	8	2	2	1	26										
2		1	9	6	6	5	2	--	29										
3			6	7	12	4	--		29										
4			1	3	8	1	1	--	14										
5			1	4	4	4	2	--	15										
6			2	2	6	3	--	--	13										
7				1	3	6	--	--	10										
8				4	6	4	1	--	15										
9			--	1	2	--	--	--	3										
70			--	1	--	--	--	--	1										
1			1	4	3	--	--	--	8										
2				2	1	2	1	--	6										
3					--	2	2	1	5										
4					3	1	1	--	5										
5						--	1	--	1										
6						1	1	2	4										
7						--		1	1										
8						2		--	2										
9								--	--										
80								1	1										
1																			
2																			
3																			
4																			
5																			
Total	7	48	215	121	104	53	16	7	571	1	232	24	13						270

Table 11.--Seasonal length frequency samples, estimated numbers and actual pounds of large and scrod haddock landed from north Gulf of Maine (ICNAF 5Y North) 1956 haddock year

Length (cm.)	Large					Scrod				
	Spring	Summer	Fall	Winter	Total	Spring	Summer	Fall	Winter	Total
27										
8										
9										
30										
1						1				1
2						--				--
3						--				--
4						--	1			1
5						2	1	3	1	7
6						1	2	10	3	16
7						3	3	24	1	31
8						9	5	42	2	58
9						20	10	64	7	101
40						24	26	70	7	127
1						41	32	107	14	194
2						53	51	85	9	198
3	2				2	65	54	81	14	214
4	1		3		4	97	85	91	33	306
5	2		2		4	105	98	86	27	316
6	7		7		14	155	129	111	26	421
7	17		15		32	163	117	139	35	454
8	28	6	39	3	76	175	106	133	38	452
9	52	9	48	10	119	158	111	165	38	472
50	79	25	67	13	184	113	86	155	45	399
1	123	56	129	28	336	58	83	151	26	318
2	141	66	159	36	402	61	56	126	17	260
3	152	90	165	56	463	21	38	117	11	187
4	132	95	173	62	462	15	20	65	6	106
5	123	91	177	74	465	8	20	49	5	82
6	156	112	197	55	520	--	15	22	2	39
7	111	81	181	58	431	1	10	14		25
8	114	95	149	55	413	--	3	14		17
9	106	79	159	38	382	--	2	6		8
60	82	86	172	33	383	1	8	3		12
1	85	72	132	34	329			2		2
2	67	63	139	31	300					
3	64	56	121	37	278					
4	39	48	88	14	189					
5	30	47	92	21	190					
6	23	30	65	23	141					
7	22	23	62	23	130					
8	14	25	56	8	103					
9	17	20	45	9	91					
70	15	15	29	5	64					
1	5	13	14	10	42					
2	6	12	20	4	42					
3	4	6	15	3	28					
4	4	9	13	6	32					
5	1	6	12	1	20					
6	--	1	8		9					
7	1	1	3		5					
8	--	1	--		1					
9	--		1		1					
80	1		1		2					
1										
2										
3										
4										
5										
Number measured	1,837	1,339	2,758	755	6,689	1,350	1,171	1,936	367	4,824
Est. sample weight	6,504	5,280	11,403	3,141	26,328	2,723	2,402	4,329	805	10,259
Actual lbs. landed (thousands)	2,483	683	366	321	3,853	1,902	502	192	147	2,743
Est. number landed (thousands)	701	173	88	77	1,039	943	245	86	67	1,341

Table 12. --Seasonal length frequency samples, estimated numbers and actual pounds of large and scrod haddock landed from south Gulf of Maine (ICNAF 5Y South) 1956 haddock year

Length (cm.)	Large					Scrod				
	Spring	Summer	Fall	Winter	Total	Spring	Summer	Fall	Winter	Total
27										
8										
9										
30										
1										
2										
3										
4										
5						2				2
6						2				2
7						5		1		6
8						14		--		14
9						13		--		13
40						17	1	1		19
1						10	1	3	1	15
2						29	--	4	4	37
3						11	5	7	5	28
4						26	7	11	6	50
5						20	17	17	7	61
6				1	1	24	21	28	12	85
7				--	--	22	11	22	18	73
8	1	--	1	--	2	22	20	36	27	105
9	2	3	7	5	17	21	13	34	28	96
50	8	4	12	13	37	23	9	26	25	83
1	20	9	10	17	56	20	14	27	26	87
2	20	18	24	34	96	16	15	16	22	69
3	15	21	27	40	103	13	4	10	19	46
4	20	21	29	56	126	2	5	5	9	21
5	25	35	45	39	144	2	2	2	4	10
6	22	31	51	38	142	1	2		2	5
7	21	29	35	47	132		--		1	1
8	22	43	33	56	154		--			--
9	16	15	47	35	113		--			--
60	17	14	32	28	91		1			1
1	9	23	18	26	76		1			1
2	9	22	24	22	77					
3	14	16	25	16	71					
4	5	25	19	18	67					
5	7	15	20	10	52					
6	4	13	14	10	41					
7	4	15	16	8	43					
8	3	8	3	10	24					
9	1	5	6	8	20					
70	2	7	4	5	18					
1		3	2	--	5					
2		2	4	--	6					
3		4	3	3	10					
4		1	1	--	2					
5			--	1	1					
6			1		1					
7			1		1					
8										
9										
80										
1										
2										
3										
4										
5										
Number measured	267	403	517	548	1,735	315	149	250	216	930
Est. sample weight	964	1,633	2,145	2,201	6,943	556	304	547	510	1,917
Actual lbs. landed (thousands)	1,554	686	1,416	357	4,013	1,175	285	852	450	2,762
Est. number landed (thousands)	430	169	341	89	1,029	665	139	390	191	1,385

Table 13. --Sample age composition of large and scrod haddock landings from north Gulf of Maine (ICNAF 5Y North) February-April 1956

Length (cm.)	Age in years										Scrod									Total
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+	Total	
27																				
8																				
9																				
30																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
40																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
50																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
60																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
70																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
80																				
1																				
2																				
3																				
4																				
5																				
Total		3	108	63	116	51	14	4	359			46	236	30	5					317

Table 14.--Sample age composition of large and scrod haddock landings from north Gulf of Maine (ICNAF 5Y North) May-July 1956

Length (cm.)	Age in years									Age in years									
	Large									Scrod									
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+	Total
27																			
8																			
9																			
30																			
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
40																			
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
50																			
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
60																			
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
70																			
1																			
2																			
3																			
4																			
5																			
8																			
9																			
80																			
1																			
2																			
3																			
4																			
5																			
Total		10	58	53	70	51	19	13	274		9	97	174	34	5	1			320

Table 15. --Sample age composition of large and scrod haddock landings from north Gulf of Maine (ICNAF 5Y North) August-October 1956

Length (cm.)	Large										Scrod									
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+	Total	
27																				
8																				
9																				
30																				
1																				
2																				
3																				
4																				
5																				
6																				
7																			2	
8																			2	
9																			5	
40																			4	
1																			4	
2																			10	
3																			9	
4																			14	
5																			15	
6		1	1		1				3										29	
7		2	--		--				2										22	
8		2	2		--				4										23	
9		1	4		--				5										31	
50		3	7	2	--				12										25	
1		6	2	3	--				11										26	
2		--	8	3	--				11										16	
3		3	13	3	1				20										13	
4		2	9	3	2	1			17										8	
5		1	9	2	--	--			12										11	
6		1	8	6	5	1			21										5	
7		1	7	4	4	1			17										5	
8		--	2	3	5	1	1		12										--	
9		1	6	6	7	--	--		20										--	
60		--	9	1	6	1	--		17										2	
1		1	3	8	3	1	1	1	18											
2			1	5	9	--	2	--	17											
3			1	4	8	3	--	--	16											
4			--	5	5	3	--	--	13											
5			1	2	1	4	1	--	9											
6				3	14	5	2	1	25											
7				2	5	6	--	2	15											
8				1	2	4	1	--	8											
9				--	1	3	1	1	6											
70				1	2	--	2	1	6											
1				2	2	--	--	2	6											
2				--	2	2	--	1	5											
3				1	2	1	1	2	7											
4					1	4		--	5											
5								3	3											
6								--	--											
7								--	--											
8								--	--											
9								1	1											
80								1	1											
1																				
2																				
3																				
4																				
5																				
Total		25	93	70	88	41	12	16	345		17	79	144	31	8	2			281	

Table 16. -- Sample age composition of large and scrod haddock landings from north Gulf of Maine (ICNAF 5Y North) November 1956-January 1957

Length (cm.)	Age in years									Scrod									
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+	Total
27																			
8																			
9																			
30																			
1																			
2																			
3																			
4																			
5																			
6																			1
7																			1
8																			--
9																			--
40																			--
1																			2
2																			2
3																			2
4																			5
5																			5
6																			6
7																			1
8																			--
9																			--
50																			2
1																			2
2																			1
3																			5
4																			5
5																			2
6																			2
7																			3
8																			5
9																			2
60																			2
1																			2
2																			1
3																			2
4																			1
5																			5
6																			3
7																			2
8																			1
9																			2
70																			1
1																			1
2																			1
3																			1
4																			1
5																			1
6																			1
7																			1
8																			1
9																			1
80																			1
1																			1
2																			1
3																			1
4																			1
5																			1
Total		11	33	17	11	5	2		79		11	26	21	1					59

Table 17.--Sample age composition of large and scrod haddock landings from south Gulf of Maine (ICNAF 5Y South) February-April 1956

Length (cm.)	Age in years									Scrod									Total
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+	
27																			
8																			
9																			
30																			
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8												2							2
9												1	1						2
40												3	1						4
1												5	1						6
2												3	3						6
3												2	5						7
4												8	4						12
5												5	6	1					12
6			1						1			3	12	1					16
7			1						1			2	9	--					11
8			1						1			1	4	1					6
9		1	--						1			--	11	2					13
50		--	4	2					6			1	11	--					12
1									4				5	--	2				7
2		2	2	--					4				4	--					4
3		1	9	3	2	1			16				4	--					4
4		1	9	4	2	--			16				1	--					1
5		1	6	1	3	4	1		16					1					1
6			7	5	4	--	--		16					1					1
7			5	5	6	2	--		18										
8			4	1	8	2	--		15										
9			1	5	6	1	--		13										
60			1	1	2	1	1		6										
1			2	--	8	3	1		14										
2				3	5	--	--		8										
3				2	2	3	--	1	8										
4				--	5	1	--	--	6										
5				--	4	--	--	--	4										
6				--	3	--	1	--	4										
7				3	2	5	--	1	11										
8				1	--	--	--	--	1										
9				--	1	1	--	1	3										
70				1	--	2	--	--	3										
1					1	--	--	1	2										
2						--	--	1	1										
3						1			1										
4									1										
5									1										
80																			
1																			
2																			
3																			
4																			
5																			
Total		6	53	37	64	27	5	4	196			36	78	7	2				123

Table 18.--Sample age composition of large and scrod haddock landings from south Gulf of Maine (ICNAF 5Y South) May-July 1956

Length (cm.)	Age in years										Scrod								
	Large					Scrod					Scrod								
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+	Total
27																			
8																			
9																			
30																			
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
40																			
1																			
2												2	4						6
3											--	--							--
4											--	2							2
5				1					1		4	3							7
6			--						--		2	2							4
7			--						--		--	1							1
8			--						--		1	5							6
9			--						--			8							8
50			--						--			2							2
1			--		1				1			2							2
2			--		--				--										--
3			2		--				2					1	1	1			3
4		1	--	1	--				2					--	1	--			1
5			--	3	1				4					1	--	--			1
6			3	1	1				5						--	1			1
7			3	--	3	1			7						1				1
8			3	1	1	1			6										
9			--	3	2	--			5										
60			1	--	1	1			3										
1			1	1	6	--	1		9										
2			--	--	2	2	--		4										
3			--	--	1	2	--		3										
4				1	2	3	--		6										
5				1	3	4	--		8										
6			--	--	--	1	--		1										
7				1	2	1	--		4										
8					1	--	--		1										
9					1	--	1		2										
70									--										
1									--										
2									3										
3																			
4																			
5																			
6																			
7																			
8																			
9																			
80																			
1																			
2																			
3																			
4																			
5																			
Total		1	14	13	28	19	2		77			9	29	2	3	2			45

Table 19.--Sample age composition of large and scrod haddock landings from south Gulf of Maine (ICNAF 5Y South) August-October 1956

Length (cm.)	Large									Scrod									Total	
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+		Total
27																				
8																				
9																				
30																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
40																				2
1																				1
2																				4
3																				3
4																				5
5																				6
6																				9
7																				4
8																				9
9																				13
50																				23
1																				12
2																				7
3																				3
4																				1
5																				19
6																				25
7																				18
8																				13
9																				15
60																				13
1																				15
2																				17
3																				11
4																				15
5																				10
6																				5
7																				6
8																				5
9																				6
70																				2
1																				1
2																				--
3																				--
4																				--
5																				--
6																				--
7																				--
8																				1
9																				--
80																				1
1																				
2																				
3																				
4																				
5																				
Total	1	13	64	78	53	36	6	8	259		4	37	48	13	3					105

Table 20.--Sample age composition of large and scrod haddock landings from south Gulf of Maine (ICNAF 5Y South)  
November 1956-January 1957

Length (cm.)	Age in years										Scrod					Total					
	Large										1	2	3	4	5		6	7	8	9+	
27																					
8																					
9																					
30																					
1																					
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9												2									2
40												5									5
1												2									2
2												2									2
3												2	1								3
4												2	2								4
5												1	5	1							7
6												1	2	--							3
7												--	9	--							9
8												--	8	7	1						16
9			4									1	2	4	1						8
50			3										4	7							11
1		1	2	1									1	2							3
2		2	7	--																	9
3			1	--																	1
4			1	2	3																6
5			--	1	1																2
6			4	2	--																6
7			3	1	1																5
8			1	--	3																4
9			2	4	2																8
60			1	1	--																2
1			1	2	1																4
2				1	--																1
3				1	2																3
4				1	2																3
5				--	3	1															4
6				3	2	1															6
7				1	1	--															2
8				--	--	--															--
9				1		1															2
70						--															--
1						--															--
2						--															--
3						--															--
4						--															--
5						1															1
6																					
7																					
8																					
9																					
80																					
1																					
2																					
3																					
4																					
5																					
Total		3	30	22	21	4				80		18	34	21	2						75

Table 21.--Monthly length frequency samples, estimated numbers and actual pounds of large and scrod haddock landed from east Georges Bank (ICNAF 5Z East) 1957 haddock year

Length (cm.)	Large												Total
	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	
27													
8													
9													
30													
1													
2													
3													
4													
5													
6													
7													
8													
9													
40													
1													
2				1									1
3			--		1	2							3
4	2		2		1	2				1	1		9
5	--		--		1	4	1	2		--	--		8
6	4	3	2		1	1	2	2	2	--	--		17
7	9	1	2		4	4	3	3	2	1	--		29
8	11	6	9		7	33	7	17	6	11	2	2	111
9	28	5	4		27	52	29	29	13	16	7	3	213
50	49	14	10	1	37	71	65	60	34	22	10	11	384
1	55	27	11	1	59	90	63	93	41	40	22	17	519
2	85	44	21	2	87	102	79	100	56	34	18	36	664
3	101	50	30	9	66	116	69	95	65	29	14	33	677
4	87	80	39	3	74	108	62	95	79	25	12	32	696
5	114	83	33	8	60	88	39	80	66	29	13	33	646
6	106	113	41	10	60	84	32	66	80	19	9	32	652
7	93	88	40	12	61	73	21	52	47	7	5	21	520
8	96	77	44	9	43	36	16	48	59	12	10	19	469
9	81	68	37	8	38	31	13	35	47	4	2	16	380
60	75	62	25	5	27	30	18	25	34	4	5	11	321
1	62	58	31	4	17	16	12	24	41	5	1	12	283
2	62	48	22	4	14	10	10	19	32	2	1	14	238
3	45	41	15	1	13	8	9	12	21	1	--	8	174
4	38	27	13	8	14	4	6	13	17	1	1	6	148
5	42	24	9	2	9	3	12	9	13	1	--	4	128
6	31	23	9	2	6	6	4	11	9	2	--	3	106
7	16	17	9	1	6	--	2	5	13	--	--	3	72
8	21	10	10	3	1	1	3	4	9	--	--	2	64
9	11	7	5	--	2	1	3	7	9	1	--	2	48
70	11	8	5	--	1	--	1	1	4		1	3	85
1	6	4	--	--	1	--	2	4	4		--		21
2	8	7	1	1	1	--	--	1	5			2	26
3	--	2	1			1	--	1	4				9
4	4	3				--	1	1	2				11
5	1	1				--	--	--	2				4
6	1	1				1	--	--	4				7
7		2					1	1	1				5
8		1						1	--				2
9								1	1				2
80													
1													
2													
3													
4													
5													
Number measured	1355	1005	481	94	739	978	585	917	822	267	134	325	7702
Est. sample weight	5306	3890	1662	345	2370	2992	1869	3135	3140	830	434	1213	27186
Actual lbs. landed (thousands)	2658	2912	821	1106	1295	1278	1263	1375	920	347	412	459	14846
Est. number landed (thousands)	679	752	237	301	404	417	396	402	241	111	127	123	4196

Table 21.--Monthly length frequency samples, estimated numbers and actual pounds of large and scrod haddock landed from east Georges Bank (ICNAF 5Z East) 1957 haddock year (continued)

Length (cm.)	Scrod												Total
	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	
27													
8													
9													
30													
1													
2													
3						1	3		1				5
4					2	3		1				1	8
5	2				3	7	4	6	5	2		1	30
6	4	2	1	1	5	11	12	8	2	5		--	51
7	5	--	--	--	21	18	12	18	8	12	1	--	95
8	9	5	2	2	28	41	21	26	13	18	1	4	170
9	27	9	9	1	56	39	32	28	19	16	3	6	245
40	35	13	2	4	46	58	54	52	24	24	5	7	324
1	33	15	8	11	54	68	56	78	35	40	3	10	411
2	55	21	15	11	54	72	76	73	38	38	7	11	471
3	75	32	13	9	64	80	82	72	44	36	12	22	541
4	81	35	12	9	67	84	62	59	39	32	23	24	527
5	94	56	32	6	73	87	52	69	42	35	11	31	588
6	86	44	14	12	70	79	54	50	45	44	18	29	545
7	91	69	27	6	58	82	56	60	36	42	15	28	570
8	88	50	13	12	57	80	43	46	27	33	8	21	478
9	80	62	20	8	56	67	56	51	38	37	10	24	509
50	65	50	14	4	49	61	27	33	29	23	5	17	377
1	42	35	10	7	31	31	15	28	24	24	6	8	261
2	33	30	10	4	18	16	4	11	10	11	3	3	153
3	19	22	7	1	12	12	4	3	4	3	2	--	89
4	13	13	4		3	5	1	1	4	3	1	--	48
5	6	4	5					--		--	--	--	15
6	--	4	3					1		1	1	1	11
7	--	1	1										2
8	1	1											2
9		1											1
60													
1													
2													
3													
4													
5													
6													
7													
8													
9													
70													
1													
2													
3													
4													
5													
6													
7													
8													
9													
80													
1													
2													
3													
4													
5													
Number measured	944	574	222	101	828	1004	723	775	486	480	135	248	6527
Est. sample weight	1965	1165	427	180	1481	1802	1318	1479	920	919	279	511	12447
Actual lbs. landed (thousands)	1828	1777	662	1330	2611	3420	6042	4039	2234	641	561	351	25496
Est. number landed (thousands)	878	874	344	797	1461	1905	3315	2117	1180	335	271	170	13647

Table 22. --Monthly length frequency samples, estimated numbers and actual pounds of large and scrod haddock landed from west Georges Bank (ICNAF 5Z West) 1957 haddock year

Length (cm.)	Large												Total
	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	
27													
8													
9													
30													
1													
2													
3													
4													
5													
6													
7													
8													
9													
40													
1													
2		2											2
3		1			1		1						3
4		1			--		2						3
5		--		1	--		2	5		2	1		11
6		3		--	--		5	3		--	2		15
7		2	1	--	1	1	11	1		--	6	1	24
8		8	5	3	--	3	28	6	1	4	6		71
9		23	11	5	4	4	46	6	5	8	16	1	134
50		34	18	12	10	6	67	19	8	25	23	6	242
1		47	35	23	13	12	89	31	22	44	42	9	408
2		66	62	41	25	27	79	37	36	56	45	17	536
3		80	73	37	42	33	81	46	47	79	69	27	690
4		88	92	66	46	39	75	44	51	126	71	36	783
5		115	94	74	48	54	71	46	64	95	72	51	851
6		101	101	57	59	70	50	45	69	84	76	52	834
7		103	70	68	45	52	55	40	57	70	72	38	732
8		87	79	53	38	65	36	32	61	61	72	48	689
9		72	66	73	36	75	46	37	60	62	53	25	869
60		57	58	43	35	60	39	23	67	51	64	29	567
1		53	73	38	33	62	32	19	37	58	61	37	551
2		55	48	39	41	56	28	29	35	40	61	36	509
3		44	52	28	32	48	24	20	41	40	40	21	425
4		34	39	31	21	49	12	12	27	38	31	26	347
5		31	43	28	29	39	11	18	35	41	35	9	355
6		29	28	20	15	34	12	7	32	35	31	14	283
7		23	23	16	17	28	8	7	15	27	19	22	228
8		20	21	17	18	18	9	9	25	16	18	14	204
9		19	23	16	7	24	7	10	12	12	15	8	166
70		9	16	10	11	11	--	6	8	12	16	10	118
1		7	17	9	4	9	6	3	7	8	15	6	98
2		7	9	3	2	9	2	1	6	7	15	6	75
3		4	9	4	4	8	6	2	4	4	5	4	57
4		2	6	4	5	9	--	1	10	7	6	5	55
5		1	7	1	3	5	1	1	1	3	5	3	34
6		2	6	--	--	3	--	1	--	2	3	3	21
7		--	1	--	2	3	--	--	1	1	--	1	11
8		1	3	2	--	1	1	1	1	1	1	2	15
9			3	--	1	1			2	--	1	--	8
80			3	1	--	--				--		1	5
1			--	1	1	1				2		1	6
2			--	--	--	--							--
3			--	--	--	--							--
87			--	--	1								1
88			1										1
Number measured	1231	1196	824	649	920	942	568	847	1121	1068	568	903	10837
Est. sample weight	4953	4981	2996	2504	3965	3226	2167	3659	4684	4591	2571	3818	44115
Actual lbs. landed (thousands)	2047	3323	1615	4210	2343	2858	1872	1822	2426	2098	2236	2757	29607
Est. number landed (thousands)	509	798	444	1091	544	834	491	422	580	488	494	652	7347

Table 22. --Monthly length frequency samples, estimated numbers and actual pounds of large and scrod haddock landed from west Georges Bank (ICNAF 5Z West) 1957 haddock year (continued)

Length (cm )	Scrod												Total
	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	
27													
8													
9													
30													
1													
2													
3											1	1	2
4											3	--	3
5				1	2						3	1	3
6	4	1	1	7	2					1	3	1	--
7	2	3	2	12	2	1	2	4	4	8	7	4	51
8	10	3	5	11	6	4	5	3	6	9	6	4	72
9	11	8	6	15	13	2	4	7	22	14	9	5	116
40	15	10	10	11	24	15	8	34	43	34	10	6	220
1	31	11	13	21	23	15	15	44	65	43	10	12	303
2	32	24	17	23	29	32	32	71	79	35	27	37	436
3	47	43	25	35	17	20	18	57	67	33	27	24	418
4	73	59	47	36	29	40	27	82	86	32	25	37	573
5	78	57	43	45	28	28	24	75	87	46	35	42	588
6	77	90	36	44	32	38	19	57	52	36	27	42	550
7	66	71	47	47	41	50	27	66	39	41	26	27	548
8	70	72	35	45	39	51	30	65	55	37	29	39	567
9	50	64	41	42	31	55	26	63	40	31	30	40	513
50	38	63	27	44	35	51	23	62	33	35	20	30	461
1	23	38	29	35	22	34	17	48	35	21	27	40	369
2	23	26	24	21	21	22	8	39	26	14	24	29	277
3	11	19	17	16	21	23	6	18	10	13	11	15	180
4	8	8	7	6	16	5	6	8	18	2	4	10	98
5	6	2	5	2	5	5	1	3	8	--	5	12	54
6	1		4	1	1	1	1	3	--	2	4	4	22
7			1	2	1	2	1	1	--	1	1	2	12
8			1	2					1		1	1	6
9			--	1									1
60			--										--
1			--										--
2			1										1
3													
4													
5													
6													
7													
8													
9													
70													
1													
2													
3													
4													
5													
6													
7													
8													
9													
80													
1													
2													
3													
4													
5													
Number measured	676	872	445	526	438	494	300	810	777	502	368	465	6473
Est. sample weight	1371	1424	822	982	854	1044	596	1655	1500	964	772	1017	13001
Actual lbs. landed (thousands)	1545	2069	1044	2492	1469	2196	1846	1524	1828	1165	946	1179	19303
Est. number landed (thousands)	762	977	565	1335	753	1038	929	746	946	606	451	539	9647

Table 23.--Sample age composition of large and scrod haddock landings from east Georges Bank (ICNAF 5Z East) February-April 1957

Length (cm.)	Age in years									Scrod										
	1	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+	Total
27																				
8																				
9																				
30																				
1																				
2																				
3																				
4																				
5																				
6																				2
7																				--
8																				3
9																				1
40																				4
1																				4
2																				3
3																				3
4																				4
5																				5
6																				5
7																				5
8																				5
9																				3
50																				3
1																				1
2																				1
3																				1
4																				1
5																				1
6																				1
7																				1
8																				1
9																				1
60																				1
1																				1
2																				1
3																				1
4																				1
5																				1
6																				1
7																				1
8																				1
9																				1
70																				1
1																				1
2																				1
3																				1
4																				1
5																				1
6																				1
7																				1
8																				1
9																				1
80																				1
1																				1
2																				1
3																				1
4																				1
5																				1
Total			1	6	46	54	44	9	18	178				46	29	26	3	1		105

Table 24. -- Sample age composition of large and scrod haddock landings from east Georges Bank (ICNAF 5Z East) May-July 1957

Length (cm.)	Age in years									Age in years									
	Large									Scrod									
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+	Total
27																			
8																			
9																			
30																			
1																			
2																			
3																			
4																			
5											1								1
6											--								--
7											1								1
8											2	1							3
9											11	--							11
40											7	3							10
1											8	4							12
2											2	6							8
3											7	6	1						14
4											1	7	2						10
5											3	10	--						13
6											--	10	1						11
7											1	7	--	1					9
8												8	2	--					10
9		1							1			7	2	--					9
50		2		1					3			5	2	1					8
1		1	4	6					11			5	--	1					6
2		7	2	3					12			2	--	--	1				3
3		5	5	3	1	2			16			--	1	3					4
4		2	3	7	--	1			13			1	2						3
5		2	3	5	1	1			12			1	1						2
6		1	1	7	1	2			12										
7		1	1	9	--	--			11										
8			1	7	2	--			10										
9				8	--	4	1		13										
60				1	2	1	--		4										
1				2	4	--	--		6										
2				--	1	--	--	1	2										
3				1	1	--	--	--	2										
4				1	1	1	--	--	3										
5				1	--	--	--	--	2										
6				--	--	--	--	--	--										
7				1	--	--	1	--	2										
8					--	--	--	--	--										
9					--	--	--	--	--										
70					--	--	--	--	--										
1					--	--	--	--	--										
2					--	--	--	--	--										
3					--	--	--	--	--										
4					--	--	--	--	--										
5					1	--	--	--	1										
6					--	--	--	--	--										
7					--	--	--	--	--										
8					--	--	--	--	--										
9					--	--	--	--	--										
80					--	--	--	--	--										
1					--	--	--	--	--										
2					--	--	--	--	--										
3					--	--	--	--	--										
4					--	--	--	--	--										
5					--	--	--	--	--										
6					--	--	--	--	--										
7					--	--	--	--	--										
8					--	--	--	--	--										
9					--	--	--	--	--										
Total		22	20	64	15	13	2	3	139		44	83	14	6	1				148

Table 25.--Sample age composition of large and scrod haddock landings from east Georges Bank (ICNAF 5Z East) August-October 1957

Length (cm.)	Age in years										Scrod									
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+	Total	
27																				
8																				
9																				
30																				
1																				
2																				
3																				
4																				
5																				
6																			2	
7																			--	
8																			2	
9																			7	
40																			7	
1																			3	
2																			7	
3																			7	
4																			3	
5																			7	
6																			5	
7																			1	
8																			--	
9																			2	
50																			9	
1																			1	
2																			6	
3																			1	
4																			6	
5																			7	
6																			5	
7																			1	
8																			9	
9																			1	
60																			2	
1																			3	
2																			4	
3																			2	
4																			7	
5																			2	
6																			4	
7																			6	
8																			3	
9																			2	
70																			1	
1																			--	
2																			1	
3																			1	
4																			1	
5																			1	
6																			1	
7																			1	
8																			--	
9																			1	
80																			1	
1																			--	
2																			2	
3																			--	
4																			--	
5																			--	
6																			--	
7																			--	
8																			--	
9																			1	
90																			1	
1																			--	
2																			--	
3																			--	
4																			--	
5																			--	
Total		61	29	71	26	7	2	2	198		50	61	9						120	

Table 26. --Sample age composition of large and scrod haddock landings from east Georges Bank (ICNAF 5Z East) November 1957-January 1958

Length (cm.)	Large									Scrod									
	1	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+	Total
27																			
8																			
9																			
30																			
1																			
2																			
3																			
4																			
5																			
6												1							1
7												2	2						4
8												1	--						1
9												1	--						1
40												1	2						3
1												--							--
2												3	1						4
3												3	--						3
4		1								1		6	2						8
5		--								--		5	2						7
6		--								--		4	3						7
7		--								--		4	4						8
8		2								2		4	5						9
9		1				1				2		3	9		1				13
50		3				--				3		3	8	--					11
1		6	2			--				8			6	2					8
2		8	1	2		--				11			1	--					1
3		7	5	--	--		1			13				1					1
4		4	4	3		--				11									
5		5	5	1	3	--				14									
6		6	6	4	--	1				17									
7		--	--	3	--	1				4									
8		--	--	3	1	--				4									
9		1	--	1	--	--				2									
60			2	2	1	--				5									
1			--	1	--	--				1									
2			1	2	2	--				5									
3			--	--	--	--		1		2									
4			--	--	--	--	1	1		2									
5			--	--	--	--	--	--		--									
6			--	1	2	--	--	--		3									
7			--	--	--	--	--	--		--									
8			--	--	--	--	1	--		1									
9			--	1		--	--	--		1									
70								2		2									
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
80																			
1																			
2																			
3																			
4																			
5																			
Total		44	26	24	11	5	3	1	114	6	39	41	4						90

Table 27. --Sample age composition of large and scrod haddock landings from west Georges Bank (ICNAF 5Z West) February-April 1957

Length (cm.)	Age in years										Scrod								
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+	Total
27																			
8																			
9																			
30																			
1																			
2																			
3																			
4																			
5													1						1
6													1	--					1
7													--	--					--
8													--	--					--
9													1	1					2
40													2	1					3
1												1	5	--					6
2													9	1					10
3													11	1					12
4													14	3	1	1			19
5		1							1				9	2	1	--			12
6		--							--				17	2	1	--			20
7		--							--				26	4	1	--			31
8		1	1	1					3				14	3	2	--			19
9		1	--	--					1				14	2	4	--			20
50		3	--	1	1				5				10	4	3	--			17
1		--	4	1	--				5				6	3	2	--			11
2		3	3	3	--	1			10				2	1	2	--			5
3		--	1	8	3	--	1		13				--	3	3	2	1		9
4		3	6	7	2	1	--		19				--	1	3				4
5			3	5	2	1	--		11				1	2	1				4
6			4	13	8	3	--		28					--	2				2
7			1	8	5	3	--		17					--					--
8			3	8	7	4	1		23					--					--
9			8	17	5	1	2		33				1						1
60			--	5	4	4	1		14										
1			--	7	2	2	1		12										
2			2	2	7	--	2		13										
3			--	2	--	3	3	1	9										
4			--	3	4	5	4	--	16										
5			1	--	--	2	1	--	4										
6			--	--	--	1	1	--	2										
7				1	--	2	--	1	4										
8				2	1	5	1	--	9										
9				1	--	1	1	--	3										
70				1	2	--	--	--	2										
1				--	2	--	--	--	2										
2				--	1	3	--	--	4										
3					3	2	1	--	6										
4					--	--	--	1	1										
5						1	--	--	1										
6							3	--	3										
7							--	1	1										
8							1	--	1										
9								1	1										
80																			
1																			
2																			
3																			
4																			
5																			
Total		12	37	95	56	45	27	5	277		1	142	36	26	3	1			209

Table 28. --Sample age composition of large and scrod haddock landings from west Georges Bank (ICNAF 5Z West) May-July 1957

Length (cm.)	Age in years										Scrod								
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+	Total
27																			
8																			
9																			
30																			
1																			
2																			
3																			
4																			
5																			
6													1						1
7													--						--
8													3						3
9													2						2
40													4						4
1													12						12
2													9						9
3													15						15
4													2						2
5													2						2
6													3						3
7													11						11
8													14						14
9													5						5
50													--						--
1													14						14
2													--						--
3													17						17
4													6						6
5													8						8
6													5						5
7													2						2
8													1						1
9													--						--
60													13						13
1													8						8
2													5						5
3													2						2
4													1						1
5													2						2
6													1						1
7													--						--
8													15						15
9													2						2
70													17						17
1													6						6
2													8						8
3													5						5
4													2						2
5													1						1
6													--						--
7													10						10
8													--						--
9													14						14
80													1						1
1													13						13
2													6						6
3													8						8
4													5						5
5													2						2
6													1						1
7													--						--
8													1						1
9													--						--
90													17						17
1													6						6
2													8						8
3													5						5
4													2						2
5													1						1
6													--						--
7													1						1
8													--						--
9													13						13
100													6						6
1													8						8
2													5						5
3													2						2
4													1						1
5													--						--
6													1						1
7													--						--
8													15						15
9													2						2
Total		23	38	97	46	47	6	14	271		54	133	29	6	1				223

Table 29.--Sample age composition of large and scrod haddock landings from west Georges Bank (ICNAF 5Z West) August-October 1957

Length (cm.)	Age in years										Scrod									
	Large					Scrod					Scrod					Scrod				
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+	Total	
27																				
8																				
9																				
30																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
40																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
50																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
60																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
70																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
80																				
1																				
2																				
3																				
4																				
5																				
Total	2	74	50	96	24	13	5	5	269		121	78	9	1					209	

674472

Table 30.--Sample age composition of large and scrod haddock landings from west Georges Bank (ICNAF 5Z West) November 1957-January 1958

Length (cm.)	Large									Scrod									
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+	Total
27																			
8																			
9											1								1
30											1								1
1											2								2
2											3								3
3											4	1							5
4											2	--							2
5											2	1							3
6											2	--							2
7											4	--							4
8											3	3							6
9											2	3							5
40												10							10
1												12							12
2												18	3						21
3												16	--						16
4												13	2						15
5												8	3						11
6												14	4	2					20
7												4	6	--					10
8												3	12	--					15
9													9	1					10
50		1								1			10	3					13
1		4								4			7	1					8
2		10								10			2	2					4
3		6	1							7			2	2					4
4		9	1							10			3	--					3
5		7	--	3	1					11				1					1
6		11	3	5	--					19				--					--
7		7	3	4	--					14			1						1
8		13	4	8	--					25									
9		1	3	7	--			1		12									
60		1	--	2	1			--		4									
1			2	10	1			--		13									
2			2	4	3	1	1			11									
3			2	8	1	1	--			12									
4			2	8	2	1	--			13									
5			1	3	2	1	1			8									
6				4	5	--	--			9									
7				--	1	--	--			1									
8				7	1	2	--			10									
9				--	3	1	1			5									
70				1	--	1	--			2									
1				--	1	--	1	1		3									
2				1	1	--	2		1	4									
3					1	1	1			3									
4						--	--			--									
5						1	--			1									
6								1		1									
7								1		1									
8																			
9																			
80																			
1																			
2																			
3																			
4																			
5																			
Total		70	24	75	24	10	10	1	214	26	106	63	13						208

Table 31. --Seasonal length frequency samples, estimated numbers and actual pounds of large and scrod haddock landed from north Gulf of Maine (ICNAF 5Y North) 1957 haddock year

Length (cm.)	Large					Scrod				
	Spring	Summer	Fall	Winter	Total	Spring	Summer	Fall	Winter	Total
27										
8										
9										
30										
1										
2										
3								1		1
4								--	2	2
5						1		2	--	3
6						12	2	7	--	21
7						15	7	16	3	41
8						48	9	27	1	85
9						62	22	29	6	119
40						91	42	52	15	200
1						112	64	57	28	261
2		1			1	142	81	47	33	303
3		--			--	156	89	77	35	357
4		--	1		1	147	100	112	39	398
5	1	--	5		6	109	136	147	52	444
6	1	3	19	1	24	97	111	202	46	456
7	3	4	30	1	38	105	127	200	47	479
8	10	31	42	3	86	88	130	226	49	493
9	25	51	79	19	174	85	104	223	51	463
50	52	61	109	37	259	64	94	229	41	428
1	74	90	131	57	352	43	101	156	26	326
2	83	114	183	84	464	22	62	140	13	237
3	107	141	236	82	566	23	58	115	6	202
4	90	169	257	93	609	12	42	66	4	124
5	109	205	298	85	697	6	20	35	3	64
6	93	190	356	80	719	4	8	13	2	27
7	74	190	289	81	634	1	3	9	1	14
8	60	178	298	75	611		2	3		5
9	46	163	263	57	529		1	--		1
60	42	149	239	58	488		1	1		2
1	26	141	213	57	437					
2	31	116	191	43	381					
3	14	119	162	31	326					
4	18	85	141	27	271					
5	14	77	109	21	221					
6	11	55	107	24	197					
7	8	42	80	18	148					
8	4	45	68	12	129					
9	4	29	60	6	99					
70	3	21	48	6	78					
1	--	16	34	6	56					
2	1	16	21	--	38					
3	2	12	22	2	38					
4	--	12	12	3	27					
5	--	3	4	--	7					
6	1	2	1	1	5					
7	--	1	3	1	5					
8	--	1	1		2					
9	--	--			--					
80	--	--			--					
1	--	1			1					
2	--				--					
3	--				--					
4	--				--					
96	1				1					
Number measured	1, 008	2, 534	4, 112	1, 071	8, 725	1, 445	1, 416	2, 192	503	5, 556
Est. sample weight	3, 398	9, 752	16, 808	4, 195	34, 153	2, 505	2, 807	4, 977	1, 034	11, 323
Actual lbs. landed (thousands)	1, 321	666	617	380	2, 984	642	362	341	295	1, 640
Est. number landed (thousands)	392	172	152	97	813	370	183	149	144	846

Table 32.--Seasonal length frequency samples, estimated numbers and actual pounds of large and scrod haddock landed from south Gulf of Maine (ICNAF 5Y South) 1957 haddock year

Length (cm.)	Large					Scrod				
	Spring	Summer	Fall	Winter	Total	Spring	Summer	Fall	Winter	Total
27										
8										
9										
30										
1									1	1
2									--	--
3									--	--
4									--	--
5									--	--
6						2	3		2	7
7						--	4	1	4	9
8						5	15	2	2	24
9						11	26	1	11	49
40						10	24	5	11	50
1						11	27	8	24	70
2						16	49	14	19	98
3						27	60	7	38	132
4						29	74	13	39	155
5						15	72	26	22	135
6						20	72	20	45	157
7						25	77	16	53	171
8	2	5	15	11	33	18	89	13	47	167
9	10	19	10	22	61	23	74	7	38	142
50	18	19	21	29	87	19	72	18	25	134
1	23	35	20	36	114	14	53	27	24	118
2	26	62	21	52	161	4	42	12	14	72
3	35	79	25	69	208	1	36	7	5	49
4	51	88	52	81	272		22	6	1	29
5	36	122	42	74	274		5	1	1	7
6	34	100	37	80	251		3	4		7
7	23	117	39	76	255		1	1		2
8	32	105	47	60	244		1	1		2
9	23	122	37	60	242		2			2
60	15	117	37	56	225					
1	10	96	26	40	172					
2	8	78	34	40	160					
3	10	61	26	39	136					
4	8	62	23	24	117					
5	7	50	11	26	94					
6	8	30	16	21	75					
7	2	35	10	15	62					
8	3	27	9	11	50					
9	3	13	3	3	22					
70	2	14	3	8	27					
1	--	7	2	6	15					
2	--	11	1	6	18					
3	1	8	2	2	13					
4		4	--	--	4					
5		2	1	1	4					
6		2	1		3					
7										
8										
9										
80										
1										
2										
3										
4										
5										
Number measured	390	1,492	596	952	3,430	250	903	210	426	1,789
Est. sample weight	1,348	5,891	2,337	3,786	13,362	457	1,766	465	863	3,551
Actual lbs. landed (thousands)	1,349	877	1,122	610	3,958	766	597	946	784	3,093
Est. number landed (thousands)	390	222	286	154	1,052	419	305	428	387	1,539

Table 33.--Sample age composition of large and scrod haddock landings from north Gulf of Maine (ICNAF 5Y North) February-April 1957

Length (cm.)	Age in years									Scrod									Total
	Large									Scrod									
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+	Total
27																			
8																			
9																			
30																			
1																			
2																			2
3													2						2
4												1							1
5												--							--
6												2							2
7												3							3
8												8							8
9												14	2						16
40												28	3						31
1												18	4						22
2												17	4	1					22
3												15	7	--					22
4												8	7	3					18
5												9	6	--					15
6												7	8	6					21
7												3	11	3					17
8					1	1			2			--	7	6					13
9				1	1	--			2			2	2	12					16
50				--	4	1			5			3	4	1					8
1				--	7	1			8			1	9	--					10
2					4	6	--	1	11			1	2	--					3
3					2	9	4	1	16			--	2	--					2
4					4	10	4	2	20				1	1	--				2
5			1		4	6	3	1	16					1	--				1
6					1	7	3	3	15						--				--
7					1	5	4	--	10						1				1
8					2	4	2	2	10										
9						4	2	2	8										
60						3	--	3	7										
1						1	3	2	6										
2						1	--	4	6										
3						--	3	--	6										
4						--	2	2	6										
5						--	1	2	3										
6						--	1	2	6										
7							1	1	3										
8							1	--	2										
9						--		1	1										
70							1	--	1										
1									1										
2									1										
3									--										
4									--										
5									1										1
6									--										
7									--										
8									--										
9									--										
80									--										
1									--										
2									--										
3									--										
4									--										
5									--										
96									1										1
Total		1	19	72	35	28	12	7	174				137	67	50	2			256



Table 35.--Sample age composition of large and scrod haddock landings from north Gulf of Maine (ICNAF 5Y North)  
August-October 1957

Length (cm.)	Age in years										Age in years									
	Large					Scrod					Large					Scrod				
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+	Total	
27																				
8																				
9																				
30																				
1																				
2																				
3																			1	
4																			--	
5																			--	
6																			--	
7																			2	
8																			2	
9																			2	
40																			6	
1																			10	
2																			10	
3																			14	
4																			20	
5																			19	
6									4										34	
7									1										23	
8									3										42	
9									3										34	
50									9										32	
1									14										29	
2									17										22	
3									20										17	
4									27										19	
5									21										11	
6									32										10	
7									34										4	
8									38										--	
9									36										2	
60									40										--	
1									34										--	
2									24										--	
3									35										--	
4									20										--	
5									24										--	
6									20										--	
7									25										--	
8									16										--	
9									14										--	
70									25										1	
1									16											
2									7											
3									9											
4									4											
5									2											
6									5											
7									1											
8																				
9																				
80																				
1																				
2																				
3																				
4																				
5																				
Total		38	85	198	148	97	33	19	618		17	173	123	45	8				366	

Table 36.--Sample age composition of large and scrod haddock landings from north Gulf of Maine (ICNAF 5Y North) November 1957-January 1958

Length (cm.)	Age in years										Scrod									
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+	Total	
27																				
8																				
9																				
30																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																			1	
40																			2	
1																			7	
2																			3	
3																			1	
4																			5	
5																			7	
6																			3	
7																			7	
8		1							1										6	
9		2	1						3										3	
50		2	2		1				5										3	
1		4	--		--				4										4	
2		2	2	4	--				8										--	
3		--	2	--	--				2										1	
4		1	3	5	--				9											
5		1	3	4	--				8											
6		--	2	2	2				6											
7		1	3	6	--	1			11											
8			2	8	1	1			12											
9			1	3	--	--			4											
60			--	5	1	5			11											
1			--	4	2	--			6											
2			1	2	--	2		1	6											
3			1	3	1	--	1	--	6											
4				1	--	3	--	--	4											
5					3	1	1	--	5											
6					1	2	1	--	4											
7					1	1	1	--	3											
8					1	--	1	--	2											
9						--	--	--	--											
70						2	--	1	3											
1						1	--	--	1											
2							--	--	--											
3							1	--	1											
4								1	1											
5																				
6																				
7																				
8																				
9																				
80																				
1																				
2																				
3																				
4																				
5																				
Total		14	23	47	14	19	6	3	126		13	21	19						53	

Table 37. --Sample age composition of large and scrod haddock landings from south Gulf of Maine (ICNAF 5Y South) February-April 1957

Length (cm.)	Large									Scrod									Total			
	1	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8		9+	Total	
27																						
8																						
9																						
30																						
1																						
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
40																						
1																						6
2																						3
3																						3
4																						3
5																						5
6																						7
7																						8
8																						11
9																						11
40																						10
1																						3
2																						3
3																						3
4																						5
5																						7
6																						8
7																						11
8																						11
9																						10
50																						10
1																						3
2																						5
3																						5
4																						3
5																						3
6																						2
7																						2
8																						5
9																						5
60																						2
1																						2
2																						4
3																						4
4																						3
5																						3
6																						5
7																						5
8																						2
9																						2
70																						2
1																						1
2																						1
3																						1
4																						1
5																						1
6																						1
7																						1
8																						1
9																						1
80																						1
1																						1
2																						1
3																						1
4																						1
5																						1
6																						1
7																						1
8																						1
9																						1
Total		1	6	23	22	16	10	2	80					32	29	11						72



Table 39.--Sample age composition of large and scrod haddock landings from south Gulf of Maine (ICNAF 5Y South) August-October 1957

Length (cm.)	Age in years									Scrod									Total	
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+		Total
27																				
8																				
9																				
30																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				1
9																				--
40																				3
1																				3
2																				1
3																				2
4																				6
5																				4
6																				2
7																				3
8																				4
9																				2
50																				5
1																				3
2																				3
3																				1
4																				1
5																				6
6																				13
7																				6
8																				10
9																				14
60																				11
1																				12
2																				--
3																				14
4																				10
5																				9
6																				9
7																				7
8																				9
9																				1
70																				5
1																				3
2																				1
3																				1
4																				1
5																				9
6																				5
7																				3
8																				1
9																				1
80																				--
1																				1
2																				1
3																				1
4																				1
5																				1
6																				1
7																				1
8																				1
9																				1
90																				--
1																				1
2																				1
3																				1
4																				1
5																				1
Total	1	14	32	57	41	11	6		162		4	21	14	5						44

Table 40. --Sample age composition of large and scrod haddock landings from south Gulf of Maine (ICNAF 5Y South) November 1957-January 1958

Length (cm.)	Age in years										Scrod									
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+	Total	
27																				
8																				
9																				
30																				
1																				
2																				
3																				
4																				
5																				
6																				
7																			1	
8																			--	
9																			1	
40																			4	
1																			3	
2																			--	
3																			3	
4																			8	
5																			3	
6																			4	
7																			4	
8																			4	
9																			4	
50																			5	
1																			2	
2																			8	
3																			3	
4																			8	
5																			2	
6																			2	
7																			2	
8																			1	
9																			5	
60																			4	
1																			1	
2																			3	
3																			1	
4																			3	
5																			2	
6																			2	
7																			1	
8																			1	
9																			1	
70																			1	
1																			1	
2																			1	
3																			1	
4																			1	
5																			1	
6																			1	
7																			1	
8																			1	
9																			1	
80																			1	
1																			1	
2																			1	
3																			1	
4																			1	
5																			1	
Total		6	27	52	29	13	5	3	135		32	60	9	1	2				104	

Table 41. --Monthly length frequency samples, estimated numbers and actual pounds of large and scrod haddock landed from east Georges Bank (ICNAF 5Z East) 1958 haddock year

Length (cm.)	Large												Total
	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	
27													
8													
9													
30													
1													
2													
3													
4													
5													
6													
7													
8													
9													
40													
1													
2													
3													
4													
5							1						1
6					1	1	1	1					4
7				1	2	2	3	5	5	1			15
8				3	8	5	13	21	32	7	2	2	41
9			2										95
9			--		5	9	21	30	40	68	13	7	197
50		5	8	1	8	25	32	52	81	107	24	12	360
1		2	17	4	15	39	68	79	105	126	30	15	504
2		9	38	8	12	52	87	107	118	159	34	8	650
3		5	57	12	18	53	96	121	108	138	22	13	659
4		9	68	21	25	67	91	90	93	135	23	11	647
5		19	60	25	30	70	86	79	67	90	10	12	562
6		8	68	16	14	46	76	75	52	68	7	7	456
7		21	52	19	29	46	51	44	49	62	6	10	410
8		12	74	29	21	35	41	35	37	41	5	8	349
9		11	60	16	30	38	33	30	26	31	7	7	293
60		11	47	13	27	34	22	12	24	28	2	9	237
1		14	64	9	15	27	14	13	15	24	3	10	214
2		10	45	10	14	26	8	16	8	16	--	10	169
3		14	45	5	21	10	8	8	15	12	1	8	153
4		8	44	5	14	18	9	5	3	8		8	123
5		9	31	4	13	8	6	7	6	5		3	95
6		4	22	1	8	6	6	2	5	1		4	60
7		7	25	1	3	10	2	4	2	4		3	62
8		4	18	3	3	4	--	5	3	3		6	51
9		6	20	1	--	5	--	2	1	2		2	39
70		2	13		1	3	--	1	--	1		3	25
1		2	4		2	2	1	1	3	2		--	19
2		1	7		--	2		--	3			--	13
3		2	9		1	1		2	2			1	19
4		3	2		1	2			--				8
5		--	2						--				2
6		1	2						1				4
7		--	2						--				2
8		--	2						--				2
9		--	--						1				1
80		1	1										2
1													
2													
3													
4													
5													
Number measured	200	909	203	334	650	767	840	906	1186	197	179	172	6543
Est. sample weight	890	3829	688	1201	2226	2152	2675	2922	3749	587	714	645	22278
Actual lbs. landed (thousands)	1349	2414	683	1872	1550	984	1117	800	782	442	354	320	12667
Est. number landed (thousands)	304	573	201	521	455	353	351	248	248	149	89	85	3577

Table 41.--Monthly length frequency samples, estimated numbers and actual pounds of large and scrod haddock landed from east Georges Bank (ICNAF 5Z East) 1958 haddock year (continued)

Length (in.)	Scrod												Total
	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	
27													
8													
9													
30													
1													
2								3	1				4
3						1		1	2	1			5
4					5	1	5	5	5	4	3		28
5				2	6	5	8	3	9	6	4		43
6			1	3	9	17	20	15	23	7	4		99
7		1		3	14	26	27	24	32	3	2	1	133
8	1	2	1	2	24	35	35	34	41	6	4	1	166
9	2	7	--	3	25	71	40	51	53	3	6	3	264
40	3	10	3	14	29	50	44	48	74	14	7	1	297
1	7	12	4	9	35	76	48	63	74	13	9	3	353
2	5	29	2	18	41	79	73	70	71	19	15	6	428
3	6	37	7	10	20	81	68	87	70	18	23	6	433
4	7	39	12	26	54	74	75	65	81	28	29	14	504
5	18	52	22	41	41	75	55	55	73	21	35	14	502
6	13	58	11	37	45	69	76	63	80	12	24	24	512
7	14	51	17	30	43	59	72	69	49	21	28	19	472
8	12	48	15	30	54	64	54	42	55	23	19	13	429
9	17	71	17	36	55	51	41	33	38	24	13	14	410
50	14	63	25	30	54	47	43	28	18	20	3	8	353
1	14	53	18	13	34	20	16	13	19	14	4	3	221
2	8	33	28	24	26	10	12	7	8	11	2	3	172
3	7	36	12	7	13	3	9	4	6	5	3	2	107
4	2	26	6	4	7	2	2		5	1	--	2	57
5	3	13	4	3	5	1	1			2	--	1	33
6	1	13	3							1	1	1	20
7	--	11										--	11
8	3	3										--	6
9		3										--	3
60		2										1	3
1													
2													
3													
4													
5													
6													
7													
8													
9													
70													
1													
2													
3													
4													
5													
6													
7													
8													
9													
80													
1													
2													
3													
4													
5													
Number measured	157	674	207	345	640	916	824	783	887	277	238	140	6088
Est. sample weight	362	1552	442	664	1207	1547	1503	1385	1557	548	462	306	11535
Actual lbs. landed (thousands)	790	1169	615	1761	2280	2121	2790	2354	2332	708	386	220	17532
Est. number landed (thousands)	342	506	288	914	1210	1255	1529	1330	1329	359	199	101	9362

Table 42.--Monthly length frequency samples, estimated numbers and actual pounds of large and scrod haddock landed from west Georges Bank (ICNAF 5Z West) 1958 haddock year

Length (cm.)	Large												Total	
	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan		
27														
8														
9														
30														
1														
2														
3														
4														
5														
6														
7														
8														
9														
40														
1														
2														
3														
4													2	
5								2		1			7	
6								4	6	5	4	1	--	20
7	1		3		1	1	3	13	16	1	2	1	1	43
8	1	1	4		2	4	7	23	29	5	11	2	2	89
9	6	3	10	2	2	3	17	61	45	24	15	9		197
50	11	3	29	4	14	19	15	68	73	19	29	24		308
1	14	8	30	8	24	31	24	116	87	33	45	42		462
2	29	10	34	26	24	48	26	113	95	79	48	54		586
3	44	9	62	37	35	53	37	122	86	100	67	70		722
4	45	14	89	42	34	54	55	110	87	95	78	99		802
5	39	10	108	42	40	72	57	97	55	93	75	110		798
6	66	11	74	54	29	79	60	73	60	89	70	89		754
7	48	7	68	58	34	84	66	57	48	83	75	90		718
8	58	4	85	69	39	76	58	39	51	66	75	93		713
9	34	5	80	75	39	71	44	28	44	72	56	81		629
60	37	6	64	61	24	65	38	29	28	40	54	61		507
1	32	1	55	68	34	52	47	28	25	37	58	58		495
2	35	5	68	58	28	64	26	25	15	37	68	64		493
3	15	1	53	53	22	59	48	19	22	43	59	55		449
4	20	2	50	37	12	37	31	13	17	22	41	59		341
5	23	3	43	35	20	39	33	8	15	31	37	40		327
6	15	1	40	37	10	39	16	10	10	32	30	33		273
7	17	1	23	36	10	24	15	8	10	23	32	26		275
8	14		25	29	6	25	16	1	6	13	21	26		182
9	6		13	23	11	24	12	3	2	13	24	19		150
70	11		15	23	9	9	10	2	7	10	11	12		119
1	3		8	13	8	8	10	3	4	9	12	10		88
2	5		8	12	--	9	7	--	4	9	10	5		69
3	2		5	12	2	10	3	1	3	5	10	4		57
4	2		3	8	2	1	9	--	3	4	6	7		45
5	--		4	6	1	--	2	2	--	3	1	--		19
6	1		1	6	2	--	--	--	1	2	4	--		17
7	3			6	1	--	1	1	1	3	--	--		16
8				--	1	2	--			1	--	--		4
9				1	--	--	--				1	--		2
80				--	1		1					2		4
1				--										--
2				--										--
3				--										--
4				--										--
5				1										1
Number measured	637	105	1154	942	521	1062	800	1079	955	1104	1127	1247		10733
Est. sample weight	2678	354	4211	3992	2060	4424	3305	3624	3388	4491	4866	5286		42679
Actual lbs. landed (thousands)	2028	555	2395	4610	2223	1915	1862	1296	875	1061	1384	2574		22778
Est. number landed (thousands)	484	165	658	1084	563	457	451	386	246	260	320	607		5681

Table 42. --Monthly length frequency samples, estimated numbers and actual pounds of large and scrod haddock landed from west Georges Bank (ICNAF 5Z West) 1958 haddock year (continued)

Length (cm.)	Scrod												Total
	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	
27													
8													
9													
30													
1													
2													
3								1					1
4							--			3		2	5
5							--			4	1	6	11
6							2		4	4	6	12	28
7			1	1	1	1	1	2	7	2	3	19	38
8	4	5	7	7	--	4	3	5	12	2	9	40	98
9	1	4	10	5	8	11	10	12	18	7	20	39	145
40	3	5	11	13	5	23	18	33	29	9	12	26	187
1	2	6	29	14	7	26	29	40	34	13	13	36	249
2	10	10	22	21	8	32	32	62	55	19	23	59	353
3	7	8	42	11	13	23	30	90	53	32	23	67	399
4	4	8	32	28	12	19	41	92	72	38	23	63	432
5	14	14	49	23	16	23	36	92	67	35	27	75	471
6	11	12	42	30	24	26	30	75	58	31	31	74	444
7	7	8	38	48	15	21	24	59	54	32	31	72	409
8	7	11	49	46	21	18	34	39	70	35	45	80	455
9	10	10	45	44	20	26	20	30	44	24	30	63	366
50	6	11	44	18	19	18	24	29	47	18	29	57	320
1	5	8	44	22	5	10	16	18	26	17	33	35	239
2	2	4	25	15	2	18	11	7	14	9	23	31	161
3	6	4	12	8	2	12	12	8	13	5	19	26	127
4	1	3	10	2	1	9	7	2	5	2	8	9	59
5		1	4	4			4		6	--	2	3	24
6		1	3	1			3			1	1	--	10
7		1	2				2				4	1	10
8												1	1
9													
60													
1													
2													
3													
4													
5													
6													
7													
8													
9													
70													
1													
2													
3													
4													
5													
6													
7													
8													
9													
80													
1													
2													
3													
4													
5													
Number measured	100	135	521	361	179	319	390	695	688	342	416	896	5042
Est. sample weight	204	257	952	686	334	617	759	1290	1351	674	856	1749	9729
Actual lbs. landed (thousands)	1202	359	1287	2417	1414	833	1770	1948	1065	1002	698	1684	15679
Est. number landed (thousands)	589	189	704	1271	759	431	910	1050	542	509	339	863	8156



Table 44. --Sample age composition of large and scrod haddock landings from east Georges Bank (ICNAF 5Z East) May-July 1958

Length (cm.)	Age in years										Total								
	Large					Scrod													
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+	Total
27																			
8																			
9																			
30																			
1																			
2																			
3																			
4																			1
5																			--
6																			1
7																			2
8																			2
9																			3
40																			5
1																			10
2																			11
3																			10
4																			11
5																			19
6																			12
7																			16
8																			17
9																			14
50																			15
1																			15
2																			12
3																			5
4																			4
5																			1
6																			2
7																			2
8																			--
9																			--
60																			1
1																			8
2																			6
3																			3
4																			3
5																			5
6																			--
7																			2
8																			1
9																			1
70																			1
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
80																			
1																			
2																			
3																			
4																			
5																			
Total		22	84	58	34	7	2	1	208		38	72	65	15	1				191

Table 45.--Sample age composition of large and scrod haddock landings from east Georges Bank (ICNAF 5Z East) August-October 1958

Length (cm.)	Age in years										Scrod					Total					
	Large									Total	1	2	3	4	5		6	7	8	9+	
27																					
8																					
9																					
30																					
1																					
2																					
3																					
4												2	1								3
5											--	1									1
6											--	8									8
7											2	5	1								8
8											--	7	--								7
9											--	15	--								15
40											--	14	1								15
1											1	19	1								21
2											1	24	3								28
3											1	18	7								26
4											1	8	7	2							18
5											2	10	13	3							28
6										1	1	2	10	--							13
7	1	2	--							3	1	2	19	4							26
8	--	3	2	1						6			11	2	2						15
9	2	7	4	--						13			6	4							10
50	1	11	3	--	2					17			3	2							5
1	--	12	8	5	--					25			2	1							3
2	--	13	7	2	1					23				2							2
3	1	13	10	5	1					30				1							1
4		5	14	4	3					26											
5		3	9	8	3	1				24											
6		2	2	6	2	--				12											
7		--	5	6	2	--				13											
8		1	6	1	2	1	1			12											
9			3	2	1	--				6											
60			2	1	--	1				4											
1			--	--	3	--				3											
2			1	--	1	--				2											
3			--	1	--	--				1											
4			1	1					1	3											
5							1		1	2											
6							--			--											
7							--			--											
8							1			1											
9																					
70																					
1																					
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
80																					
1																					
2																					
3																					
4																					
5																					
Total	5	72	78	43	21	5	1	2	227	12	134	84	21	2							253

Table 46. --Sample age composition of large and scrod haddock landings from east Georges Bank (ICNAF 5Z East) November 1958-January 1959

Length (cm.)	Age in years									Scrod									
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+	Total
27																			
8																			
9																			
30																			
1																			
2																			
3																			
4																			
5																			
6											2								2
7											1								1
8											--								--
9											1	1							2
40												--							--
1												1							1
2												2							2
3												7							7
4												15	1						16
5												10	2						12
6												5	1						6
7				1					1			6	1						7
8	1			--					1			5	2						7
9	2	1		--					3			4	6			1			11
50	4	1	1						6			1	5						6
1		5	--						5				4						4
2		10	1						11				--						--
3		5	2						7				1	2					3
4		6	2	1					8					--					--
5		3	2	2	--				7					1					1
6		6	2	--	1				9										
7		2	1	--	--				3										
8		1	3	2	--				6										
9			1	--	1				2										
60			4	--	1				5										
1			2	--					2										
2				2					2										
3				1					1										
4							1		1										
5								1	1										
6									--										
7						1			1										
8																			
9																			
70																			
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
80																			
1																			
2																			
3																			
4																			
5																			
Total	7	45	24	9	4	1	1	1	92	4	57	23	3	1					88

Table 47.--Sample age composition of large and scrod haddock landings from west Georges Bank (ICNAF 5Z West) February-April 1958

Length (cm.)	Age in years										Age in years									
	Large									Total	Scrod									Total
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+	Total	
27																				
8																				
9																				
30																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
40																				
1																			2	
2																			2	
3																			4	
4																			4	
5																			6	
6																			5	
7																			11	
8																			12	
9																			7	
40																			9	
1																			13	
2																			11	
3																			16	
4																			4	
5																			7	
6																			7	
7																			9	
8																			13	
9																			11	
50																			16	
1																			4	
2																			7	
3																			1	
4																			1	
5																			1	
6																			2	
7																				
8																				
9																				
50																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
60																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
70																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
80																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
Total		2	68	92	71	41	15	4	293		2	41	52	20	3				118	

Table 48.--Sample age composition of large and scrod haddock landings from west Georges Bank (ICNAF 5Z West) May-July 1958

Length (cm.)	Large									Scrod									
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+	Total
27																			
8																			
9																			
30																			
1																			
2																			1
3																			--
4																			--
5																			--
6																			1
7																			2
8																			1
9																			8
40																			8
1																			10
2																			15
3																			11
4																			12
5																			13
6																			11
7																			9
8																			16
9																			17
50																			16
1																			10
2																			11
3																			10
4																			6
5																			1
6																			
7																			
8																			
9																			
60																			
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
70																			
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
80																			
1																			
2																			
3																			
4																			
5																			
Total	1	23	84	92	106	40	21	6	373		52	67	53	8	1				181

Table 49. --Sample age composition of large and scrod haddock landings from west Georges Bank (ICNAF 5Z West) August-October 1958

Length (cm.)	Age in years									Scrod									Total	
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+		Total
27																				
8																				
9																				
30																				
1																				
2																				
3																				
4											2									2
5																				--
6												2								2
7												5								5
8												4								4
9												8								8
40												10								10
1												15								15
2												18								18
3												26								26
4												18								18
5												12								12
6	1									1		12								13
7	2	1								4		11								15
8	3	1	--							4		8								12
9	6	5	3							14		4								19
50	4	15	2							21		4								26
1	5	8	4							17		1								18
2	1	15	2							18		2								20
3	2	21	5							29		3								32
4		13	9	1						23		2								25
5		17	14	4						35										35
6		12	17	4	1	--				34										34
7		5	15	3	2	--				25										25
8		1	7	4	7	2				21										21
9		2	13	2	1	--				18										18
60		1	7	1	2	1				12										12
1			11	4	1	2				18										18
2			5	1	--	2				8										8
3			3	4	2	2			1	12										15
4			5	5	4	1			--	15										15
5			1	5	2	1			1	10										10
6			2	2	4	3			--	11										11
7			--	3	3	2			2	10										10
8			1	2	2	2			--	7										7
9					1	2			2	6										6
70					3	2			--	5										5
1					2	3			--	6										6
2					1	--			2	5										5
3						1			1	2										2
4						2			2	4										4
5									--	3										3
6									1	--										1
7									--	--										--
8									--	--										--
9									1	1										1
80																				
1																				
2																				
3																				
4																				
5																				
Total	24	117	127	46	38	29	10	10	401	2	148	57	12	1						220

Table 50. --Sample age composition of large and scrod haddock landings from west Georges Bank (ICNAF 5Z West) November 1958-January 1959

Length (cm.)	Large									Scrod										
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+	Total	
27																				
8																				
9																				
30																				
1																				
2																				
3																				
4																				
5																				
6											3									3
7										5	1									6
8										4	--									4
9										3	2									5
40											4									4
1											11									11
2											7	1								8
3											16	--								16
4											15	3								18
5	1	1							2		11	--								11
6	--	--							--		15	4								19
7	--	--							--		15	4								19
8	4	--							4		12	7								19
9	4	2							6		8	6		1						15
50	3	3	1						7		9			1						11
1	3	7	--						10		3	1	1							5
2	1	8	2						11		4	2	--							6
3		9	4	2					15		5	3	--							8
4		10	6	1					17		2	2	--							4
5		5	9	5					19		1	2	--							3
6		10	7	6					23		--	--	--							--
7		3	11	2		1			17		1	1	--							2
8		1	10	4	2	--			17		1	1	1							2
9			9	10	4	--			23		--	--	--							--
60			1	8	2	1			12		1	1								2
1			3	5	2	--			10				1							1
2			--	7	1	3			11				4	2						6
3			1	9	3	--			13				--	1						1
4			1	2	7	--			10				--	1						1
5			1	5	6	--	1		13				--	--						--
6			--	3	3	--	--	1	7				--	1						1
7			--	1	8	3	--	--	12				--	--						--
8			1	1	2	1	--	--	5				--	1						1
9				1	4	--	1	--	6				--	--						--
70					2	--	1	--	3				--	1						1
1					1	2	1	--	4				--	--						
2						3	2	--	5				--	--						
3							1	--	1				--	--						
4							2	--	2				--	--						
5								--	--				--	--						
6								1	1				--	--						
7													--	--						
8													--	--						
9													--	--						
80													--	--						
1													--	--						
2													--	--						
3													--	--						
4													--	--						
5													--	--						
Total	16	59	67	72	47	14	9	2	286	15	118	50	13	11	6					213

Table 51.--Seasonal length frequency samples, estimated numbers and actual pounds of large and scrod haddock landed from north Gulf of Maine (ICNAF 5Y North) 1958 haddock year

Length (cm.)	Large					Scrod				
	Spring	Summer	Fall	Winter	Total	Spring	Summer	Fall	Winter	Total
27										
8										
9										
30						1				1
1						--				--
2						--				--
3						--		1		1
4						--		--		--
5						--	1	4		5
6						--	1	6	1	8
7						1	8	33	11	53
8						2	24	75	20	121
9						21	35	90	17	163
40						45	61	119	28	253
1						65	86	113	57	321
2						142	103	128	89	462
3			1		1	212	115	110	86	523
4	2		1		3	261	119	117	117	614
5	6	1	14	1	22	275	138	126	105	644
6	9	8	27	2	46	332	113	181	113	739
7	33	17	44	21	115	306	123	154	112	695
8	85	28	69	35	217	257	121	169	100	647
9	129	69	111	95	404	256	115	131	84	586
50	242	101	139	133	615	239	94	110	50	493
1	305	145	178	177	805	179	67	106	41	393
2	328	172	191	271	962	127	44	83	33	287
3	402	181	198	251	1,032	83	31	50	11	175
4	365	192	230	239	1,026	51	17	42	3	113
5	359	198	227	216	1,000	27	9	24	5	65
6	322	242	205	193	962	16	1	14	1	32
7	283	187	222	196	888	1		5	1	7
8	251	212	248	195	906	1		2	1	4
9	193	184	192	144	713			2		2
60	157	169	175	128	629					
1	146	157	158	86	547					
2	91	146	150	95	482					
3	84	111	119	91	405					
4	66	96	102	74	338					
5	60	75	104	57	296					
6	42	73	72	69	256					
7	25	57	60	55	197					
8	23	48	64	39	174					
9	19	41	43	23	126					
70	10	23	32	26	91					
1	6	19	25	20	70					
2	6	16	20	12	54					
3	7	5	8	12	32					
4	6	3	15	8	32					
5	2	1	3	4	10					
6	2	4	3	2	11					
7	--	1		1	2					
8	--	--			--					
9	--	--			--					
80	1	--			1					
1		--			--					
2		--			--					
3		--			--					
4		1			1					
5										
Number measured	4,067	2,983	3,450	2,971	13,471	2,900	1,426	1,995	1,086	7,407
Est. sample weight	13,489	11,186	12,456	11,474	48,605	4,905	2,659	3,961	2,141	13,666
Actual lbs. landed (thousands)	2,779	576	433	432	4,220	1,802	369	317	301	2,789
Est. number landed (thousands)	838	156	121	113	1,228	1,064	198	160	153	1,575

Table 52.--Seasonal length frequency samples, estimated numbers and actual pounds of large and scrod haddock landed from south Gulf of Maine (ICNAF 5Y South) 1958 haddock year

Length (cm.)	Lsrge					Scrod				
	Spring	Summer	Fall	Winter	Total	Spring	Summer	Fall	Winter	Total
27										
8										
9										
30										
1										
2										
3										
4										
5										
6										
7						1			1	2
8						--			2	2
9						2		1	10	13
40						5	3	9	19	36
1						6	3	2	28	39
2						19	7	13	41	80
3						18	12	12	35	77
4				2	2	15	14	29	56	114
5				2	2	15	21	35	56	127
6	1		1	4	6	17	33	25	35	110
7	1	1	1	2	5	10	27	34	27	98
8	2	1	2	3	8	23	36	42	33	134
9	8	1	8	10	27	13	39	49	23	124
50	16	6	12	11	45	12	30	42	24	108
1	20	10	18	38	86	14	29	32	6	81
2	49	10	32	44	135	11	15	19	6	51
3	60	15	55	50	180	9	22	21	6	58
4	67	14	65	67	213	5	11	8	1	25
5	76	30	68	75	249	3	2	3	1	9
6	58	28	64	71	221		--	1	1	2
7	63	35	65	60	223		1	3		4
8	51	34	68	54	207					
9	60	26	40	54	180					
60	66	33	56	51	206					
1	51	27	48	36	162					
2	33	19	43	30	125					
3	26	19	35	34	114					
4	23	22	43	29	117					
5	18	9	27	25	79					
6	3	8	26	20	57					
7	8	9	24	20	61					
8	10	7	17	9	43					
9	1	8	14	10	33					
70	3	2	14	6	25					
1	11	3	4	1	19					
2	2	3	5	4	14					
3	5	1	2	4	12					
4	6	3	--	1	10					
5	3	1	1	2	7					
6				1	1					
7										
8										
9										
80										
1										
2										
3										
4										
5										
Number measured	801	385	858	830	2,874	198	305	380	411	1,294
Est. sample weight	2,947	1,495	3,345	3,214	11,001	518	628	805	748	2,699
Actual lbs. landed (thousands)	1,008	1,185	618	657	3,468	593	826	400	563	2,382
Est. number landed (thousands)	274	305	159	169	907	227	401	189	310	1,127

Table 53.--Sample age composition of large and scrod haddock landings from north Gulf of Maine (ICNAF 5Y North) February-April 1958

Length (cm.)	Age in years										Scrod									
	Large									Total	Scrod									Total
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+	Total	
27																				
8																				
9																				
30																				
1																				
2																				
3																				
4																				
5														1					1	
6													1						1	
7													2						2	
8													3						3	
9													9	1					10	
40													23	3					26	
1													28	3					31	
2													30	13					43	
3													38	14	1				53	
4													30	26	--				56	
5				1					1				20	31	2	1			54	
6				--					--				9	32	6	--			47	
7		1	4	--					5				12	37	3	--			52	
8		--	10	2					12				2	54	5	--			61	
9		--	9	3	1				13				1	34	9	--			44	
50		2	25	10	5	1			43					16	9	--			25	
1		--	20	8	4	--			32					8	6	3			17	
2		--	25	14	9	1			49					10	3	1			14	
3		1	22	21	22	2		1	69					--	--				--	
4			22	24	13	3			62					2	--				2	
5			16	14	19	4	1	--	54					1	--				1	
6			13	16	18	2	1	--	50						--				--	
7			8	11	18	8	2	--	47						1				1	
8			7	11	13	7	1	--	39											
9			5	14	18	6	2	1	46											
60			3	2	17	2	4	--	28											
1			1	4	7	2	3	--	17											
2			--	2	7	4	3	--	16											
3			1	1	4	3	1	--	10											
4			1	--	5	2	3	--	11											
5				1	3	2	3	--	9											
6				1	1	4	3	1	10											
7				1	2	2	2	--	7											
8						2	--	--	2											
9						1	1	2	4											
70						1	--	--	1											
1						--	--	3	3											
2						2	1	--	3											
3							--	1	1											
4							1		1											
5																				
6																				
7																				
8																				
9																				
80																				
1																				
2																				
3																				
4																				
5																				
Total		4	192	161	186	61	32	9	645			209	285	45	5				544	

Table 54.--Sample age composition of large and scrod haddock landings from north Gulf of Maine (ICNAF 5Y North) May-July 1958

Length (cm.)	Age in years									Age in years									
	Large									Scrod									
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+	Total
27																			
8																			
9																			
30																			
1																			
2																			
3																			
4																			
5																			
6																			
7											2	1							3
8											3	2							5
9											3	1							4
40											2	8	1						11
1											1	13	--						14
2											2	10	--						12
3											1	12	3						16
4											2	21	4						27
5												6	6	1					13
6												12	4	3					19
7												7	13	5					25
8												6	16	1					23
9												7	20	5					32
50												5	16	2					23
1												2	10	3	1				16
2													5	5					10
3													1	7					8
4													1	3					4
5													1	3		1			5
6														1	1				1
7														2					2
8																			
9																			
60																			
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
70																			
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
80																			
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
Total		10	85	113	88	71	29	24	420		16	113	101	41	1	1			273

Table 55.--Sample age composition of large and scrod haddock landings from north Gulf of Maine (ICNAF 5Y North) August-October 1958

Length (cm.)	Age in years									Scrod									
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+	Total
27																			
8																			
9																			
30																			
1																			
2																			
3																			
4																			
5															2				2
6															3				3
7															4				4
8															5				5
9															5	1			6
40															7	2			9
1															5	3			8
2															8	4	1		13
3															5	12	--		17
4			1						1						7	8	1		16
5			1	1	1				3						4	19	4		27
6			1	1	2				4						2	23	9		34
7			2	1	--				3						13	7	2		22
8			2	6	1				9						12	14	1		27
9			4	7	1	1			13						12	8	1		21
50			--	14	5	--			19						6	14	1		21
1			3	9	3	--			15						5	13	3		21
2			3	11	6	4	1		25						1	6	1		8
3			2	11	9	6	--		28							2	6		8
4			--	6	13	9	1	1	30							3	5		8
5			1	4	11	9	2	1	28							--	4		4
6			--	5	12	13	3	1	34							1	1	1	3
7			2	9	10	10	5	3	39								--		--
8				5	11	13	5	--	34								1		1
9				1	8	13	9	3	34										
60				1	6	19	7	1	1	35									
1					4	5	5	2	5	21									
2					4	10	13	3	2	32									
3					2	4	6	4	--	16									
4					2	13	6	5	4	30									
5					2	7	6	5	3	23									
6					1	3	6	2	2	14									
7						1	6	8	3	18									
8						1	5	4	6	16									
9						1	3	4	2	10									
70						--	6	3	2	11									
1						--	2	3	2	7									
2						1	--	3	3	7									
3							--	1	4	5									
4							--	1	3	4									
5							--		3	3									
6								1	--	1									
7									1	1									
8																			
9																			
80																			
1																			
2																			
3																			
4																			
5																			
Total		22	92	114	143	98	58	46	573		57	121	83	26	1				288

Table 56. --Sample age composition of large and scrod haddock landings from north Gulf of Maine (ICNAF 5Y North) November 1958-January 1959

Length (cm.)	Large									Scrod									
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+	Total
27																			
8																			
9																			
30																			
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
40																			
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
50																			
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
60																			
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
70																			
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
80																			
1																			
2																			
3																			
4																			
5																			
Total		43	133	88	92	45	19	12	432		43	146	36	4					229

Table 57.--Sample age composition of large and scrod haddock landings from south Gulf of Maine (ICNAF 5Y South) February-April 1958

Length (cm.)	Age in years									Scrod										
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+	Total	
27																				
8																				
9																				
30																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
40																				
1																				
2																				
3												1	2							3
4												1	3							4
5												1	2							3
6												--	2		1					3
7												--	2		1					3
8												2	1	--						3
9			1									1	2	1						4
50													1	--						1
1																				
2			1																	
3			--	1																
4			3	1																
5			6	5	2															
6			3	5	--															
7			4	2	1															
8			2	4	1	1														
9			--	7	3	1														
60																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
70																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
80																				
1																				
2																				
3																				
4																				
5																				
Total		1	25	41	26	15	4	1	113			6	17	6	1					30

Table 58. --Sample age composition of large and scrod haddock landings from south Gulf of Maine (ICNAF 5Y South) May-July 1958

Length (cm.)	Age in years																		
	Large									Scrod									
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+	Total
27																			
8																			
9																			
30																			
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
40												1	1						2
1												--	--						--
2												1	--						1
3												--	2	1					3
4												--	--	--					--
5												1	3	--					4
6													4	1					5
7													3	1					4
8													9	4					13
9									1				5	4					9
50									1				5	2			1		8
1									3					2	1				3
2									2					3	1				4
3									7					1	--				1
4									5					1	1				2
5									4					--	--				--
6									9				1						1
7									7										7
8									9										9
9									2										2
60									6										6
1									7										7
2									8										8
3									4										4
4									10										10
5									4										4
6									7										7
7									4										4
8									7										7
9									4										4
70									--										--
1									2										2
2									1										1
3									--										--
4									2										2
5									4										4
6									2										2
7									2										2
8									4										4
9									4										4
80									--										--
1									2										2
2									1										1
3									--										--
4									1										1
5									2										2
Total		3	30	33	24	21	4	1	116		3	32	21	4					60

Table 59. --Sample age composition of large and scrod haddock landings from south Gulf of Maine (ICNAF 5Y South) August-October 1958

Length (cm.)	Age in years										Scrod									
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+	Total	
27																				
8																				
9																				
30																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				1
9																				1
40																				1
1																				1
2																				5
3																				6
4																				3
5																				7
6																				3
7																				10
8																				17
9																				11
50																				9
1			1																	7
2			--																	2
3			--																	2
4			--																	3
5			1																	
6			--																	
7			--																	
8			--																	
9			--																	
60			1																	
1			--																	
2			--																	
3			--																	
4			--																	
5			--																	
6			--																	
7			--																	
8			--																	
9			--																	
70			1																	
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
80																				
1																				
2																				
3																				
4																				
5																				
Total			2	8	17	27	28	18	10	110			9	46	31	3				89

Table 60.--Sample age composition of large and scrod haddock landings from south Gulf of Maine (ICNAF 5Y South) November 1958-January 1959

Length (cm.)	Age in years																			
	Large									Total	Scrod									Total
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+	Total	
27																				
8																				
9																				
30																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				1
9																				1
40																				5
1																				4
2																				10
3																				7
4																				15
5																				7
6																				10
7																				7
8		1	2						3											8
9		--	--	1					1											6
50		1	1	1					3											3
1		1	1	1					3											1
2		1	5	--					6											2
3		--	8	1					9											1
4		2	2	1	1	1			7											1
5		--	6	5	4	--			15											
6		2	7	4	2	--			15											
7			3	4	2	1			10											
8			2	4	3	--			9											
9			--	3	1	--	1		5											
60			4	1	1	--	--		6											
1			1	2	2	2	--		7											
2			1	--	2	--	1		4											
3				1	2	1	2	1	7											
4				3	2	2	1	--	8											
5				2	1	1	1	--	5											
6				--	1	--	1	--	2											
7				--	1	2	1	--	4											
8				--	--	1	2	--	3											
9				--	--	--	--	--	--											
70				--	1	--	--	--	1											
1				--		1	--	--	1											
2				1			--	--	1											
3							--	--	--											
4							--	--	--											
5							--	--	--											
6							--	1	1											
7							1		1											
8																				
9																				
80																				
1																				
2																				
3																				
4																				
5																				
Total		8	43	35	26	12	11	2	137		39	32	17	1						89

Table 61. --Monthly length frequency samples, estimated numbers and actual pounds of large and scrod haddock landed from east Georges Bank (ICNAF 5Z East) 1959 haddock year

Length (cm.)	Large												Total
	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	
27													
8													
9													
30													
1													
2													
3													
4													
5													
6													
7													
8													
9													
40													
1													
2													
3													
4													
5							1						1
6					1		3		3				7
7			1		1	--	1	7	1				11
8	4	--		2	2	5	6	2	1		3	1	26
9	2	1	4	4	12	8	9	18	6		8	--	72
50	5	5	5	3	24	20	25	32	13	6	11	1	151
1	11	14	7	8	37	37	41	47	22	10	24	7	265
2	27	13	13	24	65	55	61	88	33	20	28	6	433
3	43	35	28	29	86	69	61	126	44	34	35	11	601
4	56	72	34	33	114	81	66	128	54	39	35	13	731
5	62	97	36	44	114	68	53	131	80	36	38	10	761
6	75	79	55	40	100	77	51	99	62	44	39	19	740
7	74	95	53	47	86	59	42	96	74	51	48	12	737
8	60	101	57	59	98	68	25	59	56	37	30	27	677
9	54	75	73	39	69	51	18	54	42	39	27	22	574
60	57	81	47	32	78	51	18	48	46	28	17	23	526
1	55	73	38	35	58	38	14	49	34	32	16	20	462
2	50	59	37	42	42	33	10	45	33	36	15	15	417
3	44	46	35	34	40	28	8	15	18	19	17	13	317
4	43	48	36	34	32	22	9	14	20	7	17	16	298
5	34	43	44	28	24	26	8	15	23	14	12	27	298
6	25	37	29	17	30	9	3	11	7	7	8	14	197
7	20	24	23	15	11	11	1	8	13	6	8	12	160
8	15	20	22	8	8	6	1	3	11	3	8	6	111
9	20	17	14	4	8	12	--	6	4	5	9	9	108
70	17	17	15	6	5	3	1	2	6	1	5	3	81
1	16	12	11	8	6	9	1	6	6	2	8	6	91
2	10	11	4	3	2	6	--	5	4	5	5	7	62
3	10	11	8	--	4	4	2	1	--	3	7	6	56
4	6	6	3	2	2	1		1	3	--	2	2	28
5	5	6	4	1	2	1		1	1	1	3	3	28
6	1	--	1	2		1		--		--	1	--	6
7	3	2	--	1				--		1		3	10
8	1		--					--		1		2	4
9			--					--				1	1
80			1					--					1
1			1					1					2
2			--										--
3			1										1
4													
5													
Number measured	914	1101	742	610	1161	863	535	1121	717	487	484	317	9052
Est. sample weight	3879	4504	2800	2237	4177	3029	1690	3849	2696	1889	1917	1471	34138
Actual lbs. landed (thousands)	1579	1871	1164	1782	1220	1615	1445	1226	700	789	750	1098	15239
Est. number landed (thousands)	372	457	309	486	339	460	458	356	187	203	189	237	4053

Table 61. -- Monthly length frequency samples, estimated numbers and actual pounds of large and scrod haddock landed from east Georges Bank (ICNAF 5Z East) 1959 haddock year (continued)

Length (cm.)	Scrod												Total
	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	
27													
8													
9													
30													
1													
2					1								1
3					1	1	1		2				5
4			1		6	2	1		6	1		1	18
5		1	1	3	13	5	3	7	2	5	2	4	46
6		--	1	7	11	19	4	6	7	5	1	7	68
7	4	3	6	8	22	27	8	12	11	9	2	8	120
8	12	2	13	16	21	39	18	23	19	8	6	8	185
9	11	5	12	19	15	62	27	32	23	11	10	14	241
40	25	9	12	33	21	58	37	47	36	15	12	8	313
1	13	6	19	45	27	105	42	70	62	19	11	15	434
2	28	20	21	34	26	87	50	63	71	39	20	15	474
3	30	27	20	45	50	129	48	78	75	33	20	20	575
4	24	27	16	45	53	120	54	99	97	46	35	15	631
5	29	37	31	55	54	117	56	87	86	45	31	32	660
6	31	40	36	51	48	106	39	71	95	56	46	33	652
7	37	55	42	64	52	107	30	67	77	51	40	34	656
8	35	62	40	52	59	107	42	75	63	44	33	49	661
9	38	51	30	51	45	72	35	49	46	41	39	48	545
50	34	41	28	39	45	64	24	39	37	32	36	44	463
1	31	47	32	26	30	48	17	28	23	28	21	26	357
2	19	40	30	26	27	26	13	13	14	14	9	17	246
3	16	34	27	23	12	13	5	5	6	6	12	14	173
4	6	23	16	13	9	8	3	2	2	1	4	8	95
5	1	6	11	3			1			2	3	1	28
6	2	3	9	2			1				1	2	20
7	--	1	4	4			1						10
8	2		1	2									5
9			1										1
60			1										1
1			1										1
2													
3													
4													
5													
6													
7													
8													
9													
70													
1													
2													
3													
4													
5													
6													
7													
8													
9													
80													
1													
2													
3													
4													
5													
Number measured	428	540	462	666	648	1325	557	873	860	511	394	423	7687
Est. sample weight	912	1229	930	1232	1205	2384	1038	1646	1628	1022	854	930	15011
Actual lbs. landed (thousands)	904	942	776	1875	1562	2622	2959	3357	1470	1082	693	641	18883
Est. number landed (thousands)	425	414	385	1014	839	1458	1588	1780	776	541	320	291	9831

Table 62. --Monthly length frequency samples, estimated numbers and actual pounds of large and scrod haddock landed from west Georges Bank (ICNAF 5Z West) 1959 haddock year

Length (cm.)	Large												Total
	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	
27													
8													
9													
30													
1													
2													
3													
4													
5													
6													
7													
8													1
9													--
40													1
1													--
2													--
3													--
4						1							1
5					--								1
6		1			2			1					--
7	--	2	2	--	--	1	2	5	2				5
8	--	6	1	--	--	1	6	14	3	1			9
9	4	8	2	5	6	6	6	22	6	2			13
50	11	23	5	7	17	7	16	34	9	11	2	11	153
1	20	26	10	28	38	10	23	70	13	15	1	22	276
2	30	54	24	35	45	21	17	59	12	24	7	31	359
3	39	55	28	60	55	15	34	96	16	36	12	37	483
4	58	74	28	58	50	9	42	71	18	46	19	53	526
5	64	65	24	96	53	13	30	70	19	55	20	55	564
6	65	59	34	79	69	12	35	53	21	49	16	57	549
7	69	59	31	80	65	11	25	58	16	50	20	50	534
8	54	65	29	73	62	9	33	51	20	68	17	48	529
9	50	52	28	91	64	4	20	37	14	44	13	38	455
60	58	42	37	84	57	4	16	29	11	38	13	41	430
1	38	40	27	86	50	3	12	16	8	44	12	38	374
2	36	46	26	51	54	3	8	18	11	39	13	24	329
3	32	27	25	59	35	3	6	12	8	39	16	33	295
4	31	20	31	61	36	4	4	16	10	27	13	25	278
5	37	18	26	55	29	--	8	5	4	26	6	25	239
6	18	14	21	55	27	1	3	6	4	22	17	18	206
7	12	13	28	35	27	4	1	2	3	30	6	16	177
8	16	8	26	38	21	2	--	5	2	24	8	7	157
9	18	7	17	41	15	--	--	2	--	16	7	13	136
70	14	6	25	22	20	1	--	3	2	12	7	10	122
1	9	3	18	19	9	1	3	2	1	13	5	6	89
2	5	4	14	18	6	1	2	3	1	14	4	5	77
3	6	2	11	12	7	--	--	--	1	10	2	4	55
4	4	1	17	11	4	--	1	--		6	4	3	51
5	5	1	13	3	2	1	1	--		4		7	37
6	2		7	4	3	1		--		4		2	23
7	--		7	1	--			1		1		3	13
8	2		9	3	--					2		1	17
9	1		3	2	--					1		--	7
80			--	2	--					1		1	4
1			2		1							1	4
2			1										1
3			--										--
4			2										2
86			1										1
Number measured	809	801	640	1275	930	148	354	761	235	774	260	716	7703
Est. sample weight	3516	3002	2849	5249	3763	625	1250	2668	916	3591	1217	3076	31622
Actual lbs. landed (thousands)	1803	1102	1624	4045	2836	1317	1427	1857	832	1149	1742	1830	21564
Est. number landed (thousands)	415	294	365	982	701	371	404	529	213	248	372	426	5320

Table 62. --Monthly length frequency samples, estimated numbers and actual pounds of large and scrod haddock landed from west Georges Bank (ICNAF 5Z West) 1959 haddock year (continued)

Length (cm.)	Scrod												Total
	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	
27													
8													
9													
30													
1											2		2
2											1		1
3										--	1		1
4	3			1	1			1	1		1	2	10
5	2	1		2	1	3		1	--	1	1	8	20
6	--	--	1	6	3	3		1	3	3	3	9	32
7	4	5	1	6	8	10	2	2	4	9	5	18	74
8	12	11	6	20	12	12	1	2	5	16	6	21	124
9	7	6	8	31	25	17	6	11	13	23	7	33	187
40	13	11	12	27	27	34	9	11	9	19	8	26	206
1	13	17	16	30	20	51	19	22	17	37	18	23	283
2	21	23	18	36	26	57	24	38	22	41	16	24	346
3	23	33	11	30	24	70	45	35	26	48	27	22	394
4	34	28	26	40	33	56	43	42	30	72	22	29	455
5	34	31	31	52	32	49	37	53	20	80	23	43	485
6	29	29	33	61	43	47	41	32	25	72	26	51	489
7	43	27	41	45	33	39	34	50	33	80	24	52	501
8	32	27	43	58	39	43	40	52	18	84	25	54	515
9	41	25	40	52	43	28	41	41	28	99	14	37	489
50	19	16	58	62	33	33	42	33	22	84	13	42	457
1	21	13	49	45	30	26	37	21	18	51	18	42	371
2	17	11	44	42	22	18	19	19	14	45	16	25	292
3	15	11	26	32	25	3	8	12	12	27	7	14	192
4	6	3	26	17	15	6	5	3	10	13	4	14	122
5	1		9	24	8	1		--	1	8	2	4	58
6	2		4	12	5	1		1	3	3	1	4	36
7	2		3	11	4					--		2	22
8										1			1
9													
60													
1													
2													
3													
4													
5													
6													
7													
8													
9													
70													
1													
2													
3													
4													
5													
6													
7													
8													
9													
80													
1													
2													
3													
4													
5													
Number measured	394	328	506	742	512	607	453	483	334	920	289	597	6165
Est. sample weight	815	597	1007	1450	992	1108	918	980	686	1944	576	1207	12280
Actual lbs. landed (thousands)	1185	780	913	2413	817	997	1181	1485	629	682	693	888	13663
Est. number landed (thousands)	572	428	460	1236	937	546	582	731	306	323	347	439	6907

Table 63.--Sample age composition of large and scrod haddock landings from east Georges Bank (ICNAF 5Z East) February-April 1959

Length (cm.)	Age in years									Scrod									Total
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+	
27																			
8																			
9																			
30																			
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
40																			
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
50																			
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
60																			
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
70																			
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
80																			
1																			
2																			
3																			
4																			
5																			
Total		5	41	141	89	77	16	21	390		12	96	108	49	7	1			273

Table 64. --Sample age composition of large and scrod haddock landings from east Georges Bank (ICNAF 5Z East) May-July 1959

Length (cm.)	Age in years										Age in years														
	Large					Scrod					Large					Scrod									
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
27																									
8																									
9																									
30																									
1																									
2																									
3																									
4																									
5																									
6																									
7																									
8																									
9																									
40																									
1																									
2																									
3																									
4																									
5																									
6																									
7																									
8																									
9																									
50																									
1																									
2																									
3																									
4																									
5																									
6																									
7																									
8																									
9																									
60																									
1																									
2																									
3																									
4																									
5																									
6																									
7																									
8																									
9																									
70																									
1																									
2																									
3																									
4																									
5																									
6																									
7																									
8																									
9																									
80																									
1																									
2																									
3																									
4																									
5																									
6																									
7																									
8																									
9																									
Total		34	107	125	80	43	16	6	411		124	222	83	25	5										459

Table 65. --Sample age composition of large and scrod haddock landings from east Georges Bank (ICNAF 5Z East) August-October 1959

Length (cm.)	Age in years									Scrod									
	Large									Scrod									
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+	Total
27																			
8																			
9																			
30																			
1																			
2																			
3																			
4											1	1							2
5											1	--							1
6											3	1							4
7											2	3							5
8												7	1						8
9												7	--						7
40												6	1						7
1												15	5						20
2												14	5						19
3												24	6						30
4												27	6						33
5			1						1			21	5						26
6			--						--			17	8	1					26
7	2		--						2			10	8	2					20
8	3		5						8			5	8	--					13
9	1		5						6			1	7	--	1				9
50	2		13	7					22			12	3	2					17
1	--		17	4	1				22			6	2						8
2	--		17	12	6	2			37			2	3						5
3	--		6	10	5	--			21				--						--
4	1		19	13	4	1			38				1						1
5			10	5	3	4			22				1						1
6			5	10	4	1			20										
7			4	11	9	--			24										
8			2	10	3	2	1		18										
9			1	15	6	1	1	1	25										
60			1	5	8	2	1	1	18										
1			--	6	--	--	--	--	1										7
2			1	2	2	--	--	--	5										
3				3	2	2	--	--	7										
4				2	1	--	--	--	1										4
5				2	2	--	--	--	1										5
6				2	2	--	--	--	4										4
7					2	--	--	--	1										3
8					--	1	--	--	1										1
9					--	--	--	--	--										--
70					1	1	1	--	3										
1						2	1	1	4										
2								1	1										
3																			
4																			
5																			
6																			
7																			
8																			
9																			
80																			
1																			
2																			
3																			
4																			
5																			
Total	9	106	103	66	25	9	3	7	328	7	159	80	13	3					262

Table 66.--Sample age composition of large and scrod haddock landings from east Georges Bank (ICNAF 5Z East)  
November 1959-January 1960

Length (cm.)	Age in years										Total								
	Large					Scrod													
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+	Total
27																			
8																			
9																			
30																			
1																			
2																			
3																			
4																			
5										4									4
6										--	1								1
7										--	1								1
8										--	2								2
9										--	--								--
40										1	3								4
1											4								5
2											5	1							6
3											7	3							10
4											7	1	1						9
5											4	10	--						14
6											7	9	--						16
7											9	8	1						18
8	3								3		10	17	3						30
9	1			1					2		9	11	1						21
50	6	1	--						7	--	--	8	2						10
1	4	5	--	2					11		2	9	4						15
2	3	8	5	1					17			5	1						6
3		9	1	--					10			3	--						3
4		12	5	3	1				21			2	1						3
5		2	--	3	--				5										
6		3	6	3	--	1			13										
7		2	5	1	1	--			9										
8		2	3	1	--	--			6										
9		1	1	4	--	--			6										
60			--	2	--	--			2										
1			2	3	2	--			7										
2			1	2	2	3			8										
3			1	2	2	--			5										
4			--	1	3	--			4										
5			1	3	2	2			8										
6				--	--	1			1										
7				1	4	1			6										
8					2	1		1	4										
9					1	--			1										
70					1	2	1	2	6										
1						1	--		1										
2						--	1		1										
3						--			--										
4							1		1										
5																			
6																			
7																			
8																			
9																			
80																			
1																			
2																			
3																			
4																			
5																			
Total	17	45	32	32	21	13	2	4	166	5	71	88	14						178

Table 67. --Sample age composition of large and scrod haddock landings from west Georges Bank (ICNAF 5Z West) February-April 1959

Length (cm.)	Large									Scrod									Total	
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+		Total
27																				
8																				
9																				
30																				
1																				
2																				
3																				
4																				
5																				
6																				1
7																				--
8																				--
9																				2
40																				3
1																				8
2																				14
3																				6
4																				12
5																				18
6																				31
7																				20
8																				20
9																				16
50																				35
1																				20
2																				22
3																				10
4																				12
5																				6
6																				--
7																				1
8																				3
9																				3
60																				
1																				17
2																				19
3																				14
4																				21
5																				11
6																				11
7																				14
8																				4
9																				7
70																				
1																				5
2																				2
3																				6
4																				5
5																				2
6																				5
7																				5
8																				2
9																				2
80																				
1																				1
2																				1
3																				2
4																				2
5																				2
6																				2
7																				5
8																				5
9																				2
90																				
1																				1
2																				1
3																				1
4																				1
5																				1
Total		4	49	112	49	62	30	19	325					12	113	93	37	5		260

Table 68.--Sample age composition of large and scrod haddock landings from west Georges Bank (1CNAF 5Z West) May-July 1959

Length (cm.)	Age in years										Scrod									
	Large					Total					1	2	3	4	5	6	7	8	9+	Total
27																				
8																				
9																				
30																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
40																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
50																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
60																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
70																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
80																				
1																				
2																				
3																				
4																				
5																				
Total		19	57	103	63	69	30	22	363	1	145	139	70	19	2					376



Table 70. --Sample age composition of large and scrod haddock landings from west Georges Bank (ICNAF 5Z West) November 1959-January 1960

Length (cm.)	Age in years										Scrod								
	Large					Scrod					Scrod								
	1	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+	Total
27																			
8																			
9																			
30																			
1																			
2																			
3																			
4																			
5																			
6										3	1								4
7										3	2								5
8										5	2								7
9										2	7								9
40										1	4	1							6
1										1	12	1							14
2											15	1							16
3											20	1							21
4											14	3							17
5	1								1		11	4	2	1					18
6	--								--		17	11	1	--					29
7	1								1		10	10	2	1					23
8	1								1		7	11	3	--					21
9	1								1		17	--	1						21
50	2	5							7			10	4	--					14
1	1	2	1						4			6	2	1					9
2	4	5	--						9			3	1						4
3	2	7	1	1					11			5	3						8
4	1	5	3	--					9			1	--						1
5		8	2	1					11				--						--
6		4	2	--	1				7				1						1
7		5	6	--	--				11										
8		4	8	3	--				15										
9		1	5	1	--				7										
60			7	4	--				11										
1			5	6	--	1			12										
2			4	1	1	2			8										
3			2	2	--	--			4										
4				3	1	1			5										
5				4	3	--			7										
6				1	1	1			3										
7				1	2	3			6										
8				1	1	1			3										
9				1	3	1	1		6										
70				1	1	--	--		2										
1					--	1	3	1	5										
2					--	1	1	--	2										
3						1	2	--	3										
4							--	--	--										
5							2	--	2										
6								1	1										
7																			
8																			
9																			
80																			
1																			
2																			
3																			
4																			
5																			
Total	14	46	46	31	15	12	9	2	175	15	125	85	19	4					248

Table 71. --Seasonal length frequency samples, estimated numbers and actual pounds of large and scrod haddock landed from north Gulf of Maine (ICNAF 5Y North) 1959 haddock year

Length (cm.)	Large					Scrod				
	Spring	Summer	Fall	Winter	Total	Spring	Summer	Fall	Winter	Total
27										
8										
9										
30										
1										
2										
3										
4									1	1
5						2			--	2
6						2	3		2	7
7						9	17	1	3	30
8						29	13	6	8	56
9						58	29	20	7	114
40						80	42	35	20	177
1						131	50	56	41	278
2						101	53	52	44	250
3						131	65	64	85	345
4						154	60	69	76	359
5	1	1	3		5	126	54	87	70	337
6	3	5	3	4	15	154	78	74	91	397
7	13	15	7	3	38	123	65	93	72	353
8	34	26	22	7	89	128	64	79	68	339
9	74	62	56	25	217	98	55	74	58	285
50	86	85	60	49	280	51	40	41	37	169
1	141	82	107	82	412	37	22	46	18	123
2	151	126	135	106	518	30	12	22	14	78
3	148	131	149	112	540	13	16	12	--	41
4	162	128	161	127	578	5	10	10	1	26
5	153	125	176	91	545	2	2	4		8
6	128	127	154	113	522	2				2
7	120	134	141	97	492					
8	122	106	128	94	450					
9	101	114	106	61	382					
60	74	105	108	38	325					
1	66	82	95	43	286					
2	47	80	80	46	253					
3	30	64	57	24	175					
4	39	62	55	17	173					
5	32	40	43	20	135					
6	20	45	18	12	95					
7	14	34	25	11	84					
8	7	29	28	5	69					
9	11	29	19	5	64					
70	4	21	11	2	38					
1	8	10	7	3	28					
2	7	8	5	2	22					
3	3	3	5	1	12					
4	--	4	5	1	10					
5	1	1	4	1	7					
6				--	--					
7				1	1					
8										
9										
80										
1										
2										
3										
4										
5										
Number measured	1,800	1,884	1,973	1,203	6,860	1,466	750	845	716	3,777
Est. sample weight	6,173	6,924	7,641	4,328	25,066	2,474	1,354	1,682	1,388	6,898
Actual lbs. landed (thousands)	937	562	501	350	2,350	511	331	349	277	1,468
Est. number landed (thousands)	274	188	130	98	690	304	183	176	143	806

Table 72. --Seasonal length frequency samples, estimated numbers and actual pounds of large and scrod haddock landed from south Gulf of Maine (ICNAF 5Y South) 1959 haddock year

Length (cm.)	Large					Scrod				
	Spring	Summer	Fall	Winter	Total	Spring	Summer	Fall	Winter	Total
27										
8										
9										
30										
1										
2										
3										
4										
5								2		2
6								1		1
7						2		9		11
8						3	2	3	3	11
9						7	3	16	2	28
40						14	13	10	8	45
1						14	13	21	10	58
2						17	15	20	17	69
3						29	16	23	21	89
4						24	15	31	36	106
5	1		1		2	25	22	53	31	131
6	3	2	--		5	26	27	47	43	143
7	1	3	7	3	14	25	28	46	28	127
8	9	2	9	5	25	23	15	39	37	114
9	26	14	21	19	80	16	23	31	36	106
50	32	11	25	24	92	15	17	25	27	84
1	39	23	42	31	135	13	12	11	19	55
2	48	36	51	31	166	5	18	14	21	58
3	60	47	66	47	220	1	10	1	9	21
4	67	49	62	49	227	1	6	2	14	23
5	61	59	61	46	227	2	4		10	16
6	69	77	82	40	268		4		1	5
7	66	54	63	33	216		2		3	5
8	52	59	76	27	214		2		1	3
9	40	57	60	32	189		2			2
60	35	46	57	18	156					
1	17	55	65	20	157					
2	25	55	60	15	155					
3	16	56	55	9	136					
4	12	36	53	7	108					
5	6	28	30	13	77					
6	9	20	27	2	58					
7	8	11	25	--	44					
8	6	11	27	5	49					
9	5	7	10	2	24					
70	1	11	11	1	24					
1	2	10	13	3	28					
2	2	5	5	2	14					
3	1	4	3	--	8					
4		2	5	1	8					
5		--	1	--	1					
6		2		--	2					
7		1		--	1					
8				--	--					
9				--	--					
80				--	--					
1				1	1					
2										
3										
4										
5										
Number measured	719	853	1,073	486	3,131	262	269	405	377	1,313
Est. sample weight	2,562	3,366	4,485	1,792	12,205	479	546	785	833	2,643
Actual lbs. landed (thousands)	723	788	993	736	3,240	431	342	388	546	1,707
Est. number landed (thousands)	203	200	237	200	840	236	168	200	248	852



Table 74. --Sample age composition of large and scrod haddock landings from north Gulf of Maine (ICNAF 5Y North) May-June 1959

Length (cm.)	Age in years									Scrod									
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+	Total
27																			
8																			
9																			
30																			
1																			
2																			
3																			
4																			
5																			1
6																			1
7																			1
8																			2
9																			4
40																			10
1																			12
2																			11
3																			15
4																			19
5																			9
6									1										13
7									1										8
8									4										13
9									6										10
50									6										10
1									14										10
2									13										9
3									20										6
4									19										5
5									18										1
6									16										
7									17										
8									18										
9									16										
60									14										
1									15										
2									19										
3									11										
4									10										
5									11										
6									9										
7									10										
8									6										
9									8										
70									10										
1									7										
2									12										
3									4										
4									7										
5									2										
6									3										
7									4										
8									7										
9									2										
80									4										
1									7										
2									7										
3									2										
4									--										
5									1										
6									1										
7									1										
8																			
9																			
90																			
1																			
2																			
3																			
4																			
5																			
Total	--	2	31	101	75	46	30	28	313	--	7	68	60	24	1				160

Table 75. --Sample age composition of large and scrod haddock landings from north Gulf of Maine (ICNAF 5Y North) August-October 1959

Length (cm.)	Age in years									Age in years									Total
	Large									Scrod									
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+	Total
27																			
8																			
9																			
30																			
1																			
2																			
3																			
4																			
5																			
6																			1
7																			1
8																			1
9																			4
40																			7
1																			11
2																			15
3																			9
4																			7
5																			17
6																			11
7																			17
8																			13
9																			12
50																			6
1																			5
2																			4
3																			2
4																			1
5																			--
6																			--
7																			--
8																			--
9																			--
60																			--
1																			--
2																			--
3																			--
4																			--
5																			1
6																			3
7																			3
8																			3
9																			1
70																			--
1																			--
2																			--
3																			--
4																			--
5																			--
6																			1
7																			--
8																			--
9																			--
80																			--
1																			--
2																			--
3																			--
4																			--
5																			--
6																			1
7																			--
8																			--
9																			--
Total		24	105	82	22	10	2	3	248		18	85	34	8					145

Table 76. --Sample age composition of large and scrod haddock landings from north Gulf of Maine (ICNAF 5Y North) November 1959-January 1960

Length (cm.)	Age in years										Scrod									Total
	Large																			
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+	Total	
27																				
8																				
9																				
30																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
40																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
50																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
60																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
70																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
80																				
1																				
2																				
3																				
4																				
5																				
Total		24	105	81	22	10	2	3	247		26	67	18							111



Table 78. --Sample age composition of large and scrod haddock landings from south Gulf of Maine (ICNAF 5Y South) May-July 1959

Length (cm.)	Age in years									Age in years									
	Large									Scrod									
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+	Total
27																			
8																			
9																			
30																			
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9											1								1
40											1								1
1											3								3
2																			1
3												1							1
4												5	1						6
5												3	--						3
6												4	1						5
7												5	--						5
8			1						1			3	--						3
9			--						--			2	2						4
50			--	2	1				3			4	1						5
1			1	3	--				4			--	3	1					4
2			3	1	--				4			2	3	--					5
3			1	4	--				5			1	3	--					4
4			2	3	2				7			1	2	--					3
5			2	--	--				2				2	--					2
6			--	6	2				8				1	--					1
7			2	5	1	1			9				1	--	2				3
8			3	5	2	1	1		12										
9			--	8	3	2	--		13										
60			2	5	4	1	2		14										
1				2	3	1	--		6										
2				6	6	4	--		16										
3				--	5	2	1		8										
4				--	5	3	1		9										
5				1	4	2	2		9										
6					3	3	3		9										
7					1	4	1		6										
8						1	--		1										
9						--	--	1	1										
70						--	--	1	1										
1						1	2	--	3										
2							2	--	2										
3								--	1										
4								--	--										
5								1	1										
6																			
7																			
8																			
9																			
80																			
1																			
2																			
3																			
4																			
5																			
Total				17	51	42	26	15	4	155		5	31	20	3				59

Table 79. --Sample age composition of large and scrod haddock landings from south Gulf of Maine (ICNAF 5Y South) August-October 1959

Length (cm.)	Large									Scrod									Total	
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+		Total
27																				
8																				
9																				
30																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
40																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
50																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
60																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
70																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
80																				
1																				
2																				
3																				
4																				
5																				
Total		8	20	32	10	3	1		74		10	66	31	13						120

Table 80. --Sample age composition of large and scrod haddock landings from south Gulf of Maine (ICNAF 5Y South) November 1959-January 1960

Length (cm.)	Age in years										Scrod								
	Large					Scrod					Scrod								
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+	Total
27																			
8																			
9																			
30																			
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8											1								1
9											3								3
40											1								1
1											6	1							7
2											6	5	1						12
3											3	5	--						8
4											3	15	--						18
5												--	1						1
6												--	--	1					1
7												1	--	--					1
8				1					1			--	2	--					2
9		1	--	1					2			1	--	--					1
50		3	1	1					5			--	1						1
1		1	--	1					2			1	--						1
2		1	2	1					4			1	--						1
3		--	3	1	1				5			1	1	1					3
4		--	1	4	--				5				1						1
5		--	2	--	--				2					1					1
6		--	6	3	--				9					1					1
7		--	2	8	--				10										
8		1	2	1	--				4										
9				6	1				7										
60				3	1				4										
1				--	--				--										
2				--	1	2			3										
3				1	1	--			2										
4				--	3	--			3										
5				1	--	--			1										
6					--	--	1		1										
7					1	--			1										
8					--	--			--										
9					--	--			--										
70					1	--			1										
1						--			--										
2							1		1										
3																			
4																			
5																			
80																			
1																			
2																			
3																			
4																			
5																			
Total		7	20	32	10	3	1		73		23	28	7	5	1				64

Table 81.--Monthly length frequency samples, estimated numbers and actual pounds of large and scrod haddock landed from east Georges Bank (ICNAF 5Z East) 1960 haddock year

Length (cm.)	Large												Total
	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	
27													
8													
9													
30													
1													
2													
3													
4													
5													
6													
7													
8													
9													
40													
1													
2													
3													
4													
5							1	1					2
6							--	3	2	1		1	7
7		3	3	1			1	8	2	--		2	20
8		1	--	--	4	1	6	16	17	1	1	2	49
9		5	7	2	6	3	32	28	23	7	1	4	130
50		8	4	5	13	7	51	75	37	7	5	9	246
1		10	11	9	13	30	94	118	69	18	24	10	426
2		35	22	28	25	26	123	165	98	22	25	24	621
3		43	36	27	31	65	100	168	99	24	43	22	696
4		63	46	50	37	73	135	172	86	38	41	25	806
5		48	48	50	33	72	105	152	94	37	34	35	741
6		61	67	69	30	87	96	121	112	34	44	32	799
7		61	59	56	27	65	66	103	77	19	29	25	627
8		59	46	55	31	75	53	75	60	22	32	19	573
9		61	46	56	20	50	48	63	51	18	34	16	500
60		46	60	62	18	47	38	35	48	16	27	17	444
1		44	39	55	20	35	30	30	38	12	26	17	378
2		35	41	43	17	39	23	25	28	9	16	20	328
3		35	45	32	12	36	22	19	15	8	9	7	265
4		42	30	37	14	23	16	14	18	4	10	9	241
5		25	34	41	9	20	12	10	18	8	4	7	192
6		34	25	20	16	19	12	4	10	1	11	5	168
7		23	24	20	9	14	11	7	8	2	3	5	147
8		22	25	21	9	17	10	6	5	5	3	2	146
9		22	10	21	9	11	11	3	8	4	--	2	104
70		15	14	21	5	10	10	5	2	1	2	2	96
1		20	10	10	12	5	4	3	2	3	--	5	83
2		12	17	6	7	2	8	1	1	--	2	1	64
3		12	6	5	3	--	5	1	--	--	--	2	34
4		10	4	6	3	1	5	4	2	--	--	--	39
5		5	8	5	1	2	6	1	--	--	--	1	24
6		2	1	1	4		2	2	--	--	1		13
7		--	1	--			4	1	1	--	--		7
8		--	--	3			2	2		1	--		8
9		--	--	--			1	--			1		2
80		--	1	1			2	1					5
1		1		1			1						3
2							2						2
3													
4													
5													
Number measured	863	790	819	438	835	1148	1435	1037	322	427	322	620	9056
Est. sample weight	3859	3450	3196	1658	3109	4015	4716	3727	1194	1631	1285	2630	34470
Actual lbs. landed (thousands)	2168	2041	851	1052	1310	1420	1357	1166	827	779	885	1189	15045
Est. number landed (thousands)	485	467	218	277	351	406	413	324	223	204	222	280	3870

Table 81.--Monthly length frequency samples, estimated numbers and actual pounds of large and scrod haddock landed from east Georges Bank (ICNAF 5Z East) 1960 haddock year (continued)

Length (cm.)	Scrod												Total
	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	
27													
8													
9													
30													
1												1	1
2												2	4
3						2		1	--		1	1	6
4					2	--	1	2	--	3	5	7	20
5				2	9	9	4	5	7	4	12	9	61
6	1			3	22	18	13	7	11	8	16	9	108
7	3	2		3	25	51	29	22	18	11	28	12	204
8	1	2		7	37	54	64	37	29	32	37	14	314
9	4	1		17	75	79	95	63	46	35	35	26	476
40	8	7	7	15	76	130	154	81	48	61	38	24	649
1	14	10	12	19	77	113	178	104	57	95	74	30	783
2	20	7	20	22	84	108	194	99	74	109	64	39	840
3	37	22	25	21	79	102	194	91	70	127	91	56	915
4	41	36	35	27	54	71	150	85	66	120	78	61	824
5	63	29	42	18	43	57	120	80	48	102	82	46	730
6	64	37	41	33	43	39	85	51	36	80	61	40	610
7	60	55	46	36	52	40	53	43	39	66	41	39	570
8	61	55	55	32	50	24	43	30	21	49	33	18	471
9	70	51	66	32	57	32	33	31	15	54	27	22	490
50	68	57	47	17	43	17	34	19	9	53	16	4	384
1	56	45	40	20	25	17	14	15	12	19	7	7	277
2	47	33	41	10	20	7	10	9	10	14	10	4	215
3	27	21	26	5	7	5	3	9	4	13	2	2	124
4	19	14	25	3	2	1	2	3	2	4	5	3	83
5	13	7	8	1		2		1		2	1	--	35
6	5	6	4	1							1	--	17
7	1	2	1									1	5
8			1										1
9			1										1
60													
1													
2													
3													
4													
5													
6													
7													
8													
9													
70													
1													
2													
3													
4													
5													
6													
7													
8													
9													
80													
1													
2													
3													
4													
5													
Number measured	683	499	543	344	882	978	1473	888	623	1061	767	477	9218
Est. sample weight	1588	1141	1132	624	1486	1522	2493	1541	1073	1961	1366	858	16785
Actual lbs. landed (thousands)	1244	1205	620	993	1611	3483	4963	4038	2620	1443	1452	1699	25371
Est. number landed (thousands)	535	526	298	547	956	2238	2932	2326	1521	781	815	945	14420

Table 82. --Monthly length frequency samples, estimated numbers and actual pounds of large and scrod haddock landed from west Georges Bank (ICNAF 5Z West) 1960 haddock year

Length (cm.)	Large												Total
	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	
27													
8													
9													
30													
1													
2													
3													
4													
5													
6													
7													
8													
9													
40													
1													
2													
3													
4													
5				1									1
6				2		1							3
7				4		1		2				1	8
8			1	8		2	5	3	2			2	23
9		2	--	10		3	10	8	2	3	2	2	44
50	10	3	14	--	20	17	21	14	12	1	3	3	118
1	17	7	32	10	40	32	27	16	20	7	7	9	224
2	13	6	36	18	52	84	69	24	38	14	12	14	380
3	32	18	64	49	88	99	84	30	36	8	9	29	546
4	33	25	78	60	125	102	112	29	34	18	8	22	646
5	44	33	78	66	132	88	103	36	48	26	17	33	704
6	30	28	83	78	143	88	118	42	62	31	22	39	764
7	49	32	97	91	126	80	106	30	51	28	15	39	744
8	39	32	77	107	124	87	98	27	55	24	12	43	725
9	34	19	85	104	136	82	94	31	57	33	22	36	733
60	36	26	91	90	115	61	89	28	59	28	13	37	673
1	32	24	77	119	122	73	64	32	41	27	13	25	649
2	32	23	76	83	101	44	97	15	51	16	10	39	587
3	19	24	57	96	97	43	69	24	29	18	16	49	541
4	20	35	74	73	87	32	54	12	35	12	12	30	476
5	21	22	59	67	85	44	48	9	19	11	8	23	416
6	18	26	65	58	78	38	49	8	19	11	10	24	404
7	18	21	35	57	76	27	45	10	13	9	2	28	341
8	11	15	43	59	61	30	42	5	9	8	1	30	314
9	7	8	33	51	60	28	43	4	20	9	2	25	290
70	12	9	29	32	56	16	26	1	14	3	2	10	210
1	13	5	22	36	30	13	26	--	8	4	4	14	175
2	7	3	11	23	36	16	20	1	6	2	--	9	134
3	7	3	10	25	30	5	13	--	5	2	1	13	114
4	1	4	6	24	23	7	12	1	7	2	1	8	96
5	2	1	6	15	14	6	11	1	5	1		9	71
6	1	2	9	7	9	1	12	1	3	2		3	50
7	2	1	4	2	5	2	4		2	2		1	25
8	--	3	3	--	2	3	4		3			1	19
9	1		2	3	3	--	2		1			1	13
80	1		3	--	2	2	1		1			1	11
1				2	3							--	5
2				--	--							--	--
3				--	1							1	2
4					1							1	2
5													
Number measured	564	459	1384	1509	2096	1263	1570	436	765	357	227	651	11281
Est. sample weight	2516	2039	5447	6638	9212	5191	6882	1738	3435	1612	972	3243	48925
Actual lbs. landed (thousands)	1838	691	3319	2453	3282	1926	1574	1153	1259	1293	877	1442	21107
Est. number landed (thousands)	412	155	843	557	746	468	360	288	281	286	205	289	4890

Table 82. -- Monthly length frequency samples, estimated numbers and actual pounds of large and scrod haddock landed from west Georges Bank (ICNAF 5Z West) 1960 haddock year (continued)

Length (cm )	Scrod											Total	
	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec		Jan
27													
8													
9													
30													
1													
2													
3													
4				4			1		1	1		2	9
5			10		3	2	--		1	2	1	--	19
6		2	18	3	14	6	1	2	5	8	2	3	64
7	1	3	33	4	22	13	17	9	16	9	1	10	138
8	--	6	51	21	49	36	36	15	27	26	3	18	288
9	5	13	60	38	88	69	59	13	33	36	3	30	447
40	8	9	69	60	131	112	109	38	62	46	7	37	688
1	6	10	71	74	125	152	170	67	84	48	10	35	852
2	7	8	66	78	106	145	195	59	137	74	17	58	950
3	11	8	52	86	83	155	219	82	159	72	32	79	1038
4	10	12	61	71	75	102	173	94	176	89	26	79	968
5	18	13	63	44	54	90	147	66	166	70	26	81	838
6	19	10	56	48	67	48	116	49	132	65	26	71	707
7	23	12	76	64	59	42	76	39	70	39	26	78	604
8	24	13	69	61	51	34	67	25	47	37	22	66	516
9	19	18	59	73	60	31	57	15	29	24	17	40	442
50	11	7	55	76	50	23	36	15	11	28	7	31	350
1	17	7	53	58	51	12	33	7	8	21	8	31	306
2	20	8	38	62	45	11	20	4	4	12	2	30	256
3	15	3	27	28	32	7	13	5	1	9	4	21	165
4	8	3	16	20	18	4	12	1	1	3	--	7	93
5	4		9	15	4	1	1	1	1	1	--	10	47
6	5		1	5	4	--	4				6	4	30
7	--		1	1	2	1	2			1		1	8
8	1		1	2		4						2	10
9	2					--							2
60						1							1
1													
2													
3													
4													
5													
6													
7													
8													
9													
70													
1													
2													
3													
4													
5													
6													
7													
8													
9													
80													
1													
2													
3													
4													
5													
Number measured	234	165	1019	992	1193	1101	1564	606	1171	721	246	824	9836
Est. sample weight	540	296	1652	1832	2010	1852	2692	1049	2015	1288	481	1619	17326
Actual lbs. landed (thousands)	905	448	1913	1436	1682	1716	1904	1747	3236	1387	850	724	17947
Est. number landed (thousands)	392	249	1179	776	999	1019	1106	1010	1879	776	435	368	10188

Table 83. --Sample age composition of large and scrod haddock landings from east Georges Bank (ICNAF 5Z East) February-April 1960

Length (cm.)	Age in years										Scrod						Total		
	Large					Scrod					Scrod								
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+	Total
27																			
8																			
9																			
30																			
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			1
9																			--
40																			1
1																			2
2																			6
3																			9
4																			14
5																			11
6																			21
7																			21
8																			25
9																			48
50																			24
1																			28
2																			25
3																			20
4																			7
5																			8
6																			2
7																			7
8																			
9																			
60																			
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
70																			
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
80																			
1																			
2																			
3																			
4																			
5																			
Total	--	9	50	87	81	52	28	13	320	--	6	116	98	44	13	3			280

Table 84. --Sample age composition of large and scrod haddock landings from east Georges Bank (ICNAF 5Z East) May-July 1960

Length (cm.)	Age in years										Scrod					Total								
	Large					Scrod					1	2	3	4	5		6	7	8	9+				
27																								
8																								
9																								
30																								
1																								
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
40																								
1																								
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
50																								
1																								
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
60																								
1																								
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
70																								
1																								
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
80																								
1																								
2																								
3																								
4																								
5																								
Total	1	82	114	94	58	29	13	18	409		1	298	109	42	19									469

Table 85. --Sample age composition of large and scrod haddock landings from east Georges Bank (ICNAF 5Z East) August-October 1960

Length (cm.)	Age in years										Scrod									Total
	Large					Scrod					Scrod									
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+	Total	
27																				
8																				
9																				
30																				
1																				
2											1									1
3											--									--
4											--									--
5											2									2
6												2								2
7												7								7
8												15								15
9												26								26
40												38	2							40
1												28	1							29
2												52	--							52
3												52	1	1						54
4												43	5	--						48
5												33	2	--	1					36
6												20	9	--	--					29
7												12	2	--	--					14
8												7	10	2	--					19
9	1	3	2	2					8			2	9	3	--					14
50	--	4	3	1					8											14
1	1	11	4	2					18			10	2	1	1					4
2	--	24	12	--					36			4	--	--						6
3	--	16	7	6	1				30			2	2	1						5
4	1	20	8	1	--				30				1	--						1
5		20	14	3	2				39					1						1
6		13	15	4	--				32											1
7		3	14	5	2				24											
8		2	12	3	1			1	19											
9		2	12	3	--			--	17											
60		3	7	7	--			--	17											
1		1	2	2	1			--	7											
2		--	3	4	4			--	11											
3		--	2	2	1	1		--	6											
4		2	1	2	2	--	3	1	11											
5				2	--	--	--	1	3											
6				1	--	1	--	--	2											
7				3	1	--	--	--	4											
8				--	--	--	--	--	--											
9				2	--	--	--	2	4											
70					1	--	1	--	2											
1					1	1	1	--	3											
2					--	--	--	--	--											
3					--	--	--	--	--											
4									--											
5					1				1	2										
6									--	--										
7									1	1										
8									1	1										
9									1	1										
80																				
1																				
2																				
3																				
4																				
5																				
Total	3	124	118	55	18	3	8	6	335	3	337	60	14	4	1					419

Table 86. --Sample age composition of large and scrod haddock landings from east Georges Bank (ICNAF 5Z East)  
November 1960 - January 1961

Length (cm.)	Age in years										Scrod									
	Large					Scrod					Scrod					Scrod				
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+	Total	
27																				
8																				
9																				
30																				
1																				
2																				
3																				
4											2								2	
5											2								2	
6											6								6	
7											6	2							8	
8											6	--							6	
9											--	9							9	
40											2	9							11	
1											1	16							17	
2												20							20	
3												28							28	
4												33							33	
5												17	2						19	
6												17	--						17	
7												12	3						15	
8												11	2						13	
9												9	2						11	
50												7	3	1					11	
1		2	1						3			1	1	--					2	
2		2	5	1					8			2	1						3	
3		2	4	1					7			--		1					1	
4		5	5	2					12			3		1					4	
5		3	4	1					8											
6		--	3	--					3											
7		3	7	4			1		15											
8		1	3	3	1	--			8											
9		1	1	3	--	--			5											
60		--	5	1	2	--			8											
1		1	3	3	1	--			8											
2			3	2	1	--			6											
3				--	--	--			--											
4				2	1	--		1	4											
5				1	3	--			4											
6					1	1	1		3											
7					1	1	1		3											
8					--	--	1		1											
9					--	--	1		1											
70					1	1	--		2											
1					1		--		1											
2							--		--											
3							1		1											
4							--		--											
5							--		--											
6							--		--											
7							--		--											
8							--		--											
9							1		1											
80							1		1											
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
Total		20	44	24	13	4	6	1	112		25	191	18	2	2				238	



Table 88. --Sample age composition of large and scrod haddock landings from west Georges Bank (ICNAF 5Z West) May-July 1960

Length (cm.)	Age in years									Scrod									
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+	Total
27																			
8																			
9																			
30																			
1																			
2																			
3																			
4																			
5																			
6														3					3
7														--					--
8														8					8
9														23					23
40														36					36
1														60	1				61
2														58	4	2			64
3														81	--	--			81
4														60	3	--			63
5														51	10	4	1		66
6														20	10	9	1		40
7														8	23	2	1		34
8														11	15	5	2		33
9				2					2					6	16	3	1		26
50			2	--					2					1	25	13	1		40
1			4	--					4						22	6	3		31
2			9	2	3	1			15						21	10	4	1	36
3			14	8	3	1			26						8	11	2	1	22
4			10	9	3	1			23						6	11	1	2	20
5			14	18	4	1			37						3	10	2	--	15
6			11	22	15	5			53							4	2	--	6
7			7	25	16	1			49							1	1	--	2
8			3	27	15	3	1		49							1		--	1
9			1	26	16	5	--		48									--	--
60			2	17	27	9	1		56								1		1
1			2	15	20	10	--	2	49										
2				10	24	13	2	--	49										
3				8	20	9	4	--	41										
4				4	13	6	1	1	26										
5				2	14	20	12	1	49										
6					13	21	5	2	41										
7					8	16	1	1	26										
8					3	15	13	6	37										
9					1	16	3	5	25										
70					1	8	5	2	16										
1						6	8	3	19										
2						2	8	3	15										
3							3	3	13										
4							3	1	8										
5							1	3	10										
6							2	2	7										
7							1	--	4										
8							--	2	3										
9							--	--	1										
80							1	--	2										
1								1	--										
2									--										
3									1										
4																			
5																			
Total		79	195	219	169	75	38	34	809		426	167	92	22	5				712

Table 89. --Sample age composition of large and scrod haddock landings from west Georges Bank (ICNAF 5Z West) August-October 1960

Length (cm.)	Age in years																			
	Large					Scrod														
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+	Total	
27																				
8																				
9																				
30																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
40																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
50																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
60																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
70																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
80																				
1																				
2																				
3																				
4																				
5																				
Total	7	95	110	86	66	27	21	6	418	1	98	14	6						119	

Table 90. --Sample age composition of large and scrod haddock landings from west Georges Bank (ICNAF 5Z West)  
November 1960 - January 1961

Length (cm.)	Age in years									Scrod									
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+	Total
27																			
8																			
9																			
30																			
1																			
2																			
3																			
4																			
5																			
6										1									1
7																			--
8											1								1
9											3								3
40											1								1
1											8								8
2											10								10
3											14								14
4											14								14
5											12								12
6											10								10
7											9								9
8			2						2		8		1						9
9			1						1		4		3						7
50	1	--							1		1		1						2
1	1	2				1			4		3		1						4
2	1	--	1			--			2				2						2
3		5	3			--			8				1						3
4		--	1			--			1				4		2				6
5		5	5	1		1			12						1				1
6		3	5	4		--			12										1
7		6	2	4		--			12					1					1
8		2	9	4		--			15										
9		2	9	1		--	1		13										
60			7	2		--	2		11										
1			3	1		--	--		4										
2			4	3	1		1		9										
3			1	5	3		1		10										
4			1	2	2		1		7		1								
5			--	3	1		--		4										
6			1	3	4		3	1	12										
7				1	4		2	1	9										
8				1	--		2	3	6										
9				--	6		2	--	8										
70				1	3		--	1	5										
1							3	1	4										
2							1	--	1										
3								--	--										
4								1	1										
5									1										
6									--										
7									1										
8																			
9																			
80																			
1																			
2																			
3																			
4																			
5																			
Total	3	28	52	36	26	19	8	5	177	1	98	14	6						119

Table 91: --Seasonal length frequency samples, estimated numbers and actual pounds of large and scrod haddock landed from north Gulf of Maine (ICNAF 5Y North) 1960 haddock year

Length (cm.)	Large					Scrod				
	Spring	Summer	Fall	Winter	Total	Spring	Summer	Fall	Winter	Total
27										
8										
9										
30										
1										
2									3	3
3									4	4
4									8	8
5						1			7	8
6						--	3	4	14	21
7						3	5	3	10	21
8						11	8	6	41	66
9						32	25	14	46	117
40						45	26	39	46	156
1						76	44	28	51	199
2						99	53	53	55	260
3						103	52	74	65	294
4			1		1	105	49	65	67	286
5	6	1	4		11	120	50	92	75	337
6	8	1	5	5	19	85	62	81	63	291
7	15	6	15	14	50	99	55	95	50	299
8	27	4	43	28	102	88	39	94	68	289
9	49	10	47	34	140	89	29	65	44	227
50	66	21	67	87	241	65	50	62	32	209
1	89	29	94	76	288	46	28	23	13	110
2	116	51	117	129	413	18	25	32	13	88
3	115	59	149	108	431	9	9	12	3	33
4	107	53	140	107	407	1	6	9		16
5	159	77	128	68	432	1	4	2		7
6	137	89	128	79	433			--		--
7	134	77	137	65	413			1		1
8	105	84	107	57	353					
9	100	77	89	51	317					
60	75	69	76	28	248					
1	67	50	68	26	211					
2	62	42	51	25	180					
3	44	50	50	24	168					
4	29	39	37	21	126					
5	22	35	27	11	95					
6	27	18	31	17	93					
7	17	20	22	5	64					
8	11	20	25	8	64					
9	6	12	13	4	35					
70	6	10	9	4	29					
1	5	3	5	3	16					
2	4	10	4	--	18					
3	3	3	3	1	10					
4	3	2	1	1	7					
5		1	4	1	6					
6		--	--		--					
7		1	--		1					
8			1		1					
9										
80										
1										
2										
3										
4										
5										
Number measured	1,614	1,024	1,698	1,087	5,423	1,096	622	854	778	3,350
Est. sample weight	5,631	3,973	6,349	3,819	19,772	1,983	1,123	1,728	1,370	6,204
Actual lbs. landed (thousands)	1,222	596	646	402	2,866	422	323	325	410	1,480
Est. number landed (thousands)	349	156	173	114	792	231	189	161	233	814

Table 92. --Seasonal length frequency samples, estimated numbers and actual pounds of large and scrod haddock landed from south Gulf of Maine (ICNAF 5Y South) 1960 haddock year

Length (cm.)	Large					Scrod				
	Spring	Summer	Fall	Winter	Total	Spring	Summer	Fall	Winter	Total
27										
8										
9										
30										
1										
2										
3										
4										
5										
6						1				1
7						--	3	6	3	12
8						--	3	4	1	8
9						3	4	5	3	15
40						10	22	11	6	49
1						24	17	16	7	64
2						17	23	20	13	73
3						23	26	31	7	87
4						23	26	29	10	88
5						29	15	43	28	115
6						33	20	37	22	112
7	2				2	50	27	41	14	132
8	6		1		7	30	17	44	14	105
9	12		6		18	34	14	32	11	91
50	24	1	16		41	34	6	30	13	83
1	56	3	39		98	23	12	21	9	65
2	64	2	53	1	120	22	5	16	9	52
3	75	1	62	5	143	4	6	12	4	26
4	97	2	68	9	176	3	1	7	2	13
5	80	6	59	11	156	2	2	3		7
6	49	10	59	11	129	2				2
7	79	13	77	9	178					
8	67	12	60	14	153					
9	48	22	65	17	152					
60	41	21	47	16	125					
1	32	15	66	10	123					
2	33	13	47	8	101					
3	25	12	43	3	83					
4	20	9	37	8	74					
5	20	10	33	7	70					
6	8	12	26	3	49					
7	7	6	13	7	33					
8	5	8	26	2	41					
9	7	5	13	4	29					
70	4	7	13	4	28					
1	1	4	15	3	23					
2	1	3	9	2	15					
3	1	1	4	1	7					
4		2	4	1	7					
5		4	3	--	7					
6		1	1	1	3					
7		1		1	2					
8					1					
9										
80										
1										
2										
3										
4										
5										
Number measured	864	207	965	158	2,194	367	249	408	176	1,200
Est. sample weight	2,888	924	3,893	707	8,412	690	408	797	336	2,231
Actual lbs. landed (thousands)	563	654	768	603	2,588	200	262	423	701	1,586
Est. number landed (thousands)	168	146	190	135	639	106	160	216	367	849

Table 93.--Sample age composition of large and scrod haddock landings from north Gulf of Maine (ICNAF 5Y North) February - April 1960

Length (cm.)	Age in years									Scrod									
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+	Total
27																			
8																			
9																			
30																			
1																			
2																			
3																			
4																			
5																			
6																			
7																			2
8																			2
9																			5
40																			10
1																			16
2																			21
3																			21
4																			15
5																			32
6									2										23
7									1										21
8									1										21
9									1										24
50									8										11
1									12										5
2									23										5
3									28										1
4									22										--
5									39										--
6									25										--
7									26										--
8									21										--
9									29										1
60									17										
1									13										
2									17										
3									17										
4									7										
5									9										
6									1										
7									2										
8									6										
9									2										
70									1										
1									1										
2									2										
3																			
4																			
5																			
Total			3	34	132	115	35	9	5	333		15	89	111	18	3			236

Table 94. --Sample age composition of large and scrod haddock landings from north Gulf of Maine (ICNAF 5Y North)  
May-July 1960

Length (cm.)	Age in years										Scrod						Total		
	Large					Scrod					Scrod								
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+	Total
27																			
8																			
9																			
30																			
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8											1								1
9											--								1
40												2							3
1											1	2							5
2											--	8							9
3											2	14							18
4											1	7							10
5											--	9							14
6											--	6							12
7											--	4							12
8		1	1						2		--	5							13
9		--	--						--		--	2							11
50		--	--						--		1	4							12
1		--	3	2					5			2							12
2		1	1	1					3			1							6
3			4	4	2	1			11										7
4			1	8	8	2			19										3
5			1	5	5	1			12			2							3
6				5	3	--	2		10										
7				7	13	3	4	1	28										
8				4	10	2	1	2	19										
9				2	8	6	1	--	17										
60				4	11	8	4	--	27										
1				3	6	6	--	2	17										
2				2	7	5	3	1	19										
3				2	2	4	1	--	7										
4				2	5	3	1	1	12										
5				1	3	5	--	1	10										
6					4	3	--	--	7										
7					3	1	--	--	4										
8					3	3	1	--	7										
9					--	2	--	1	3										
70					1	--	1	--	2										
1						1	2	--	3										
2								1	--										
3								1	1										
4																			
5																			
6																			
7																			
8																			
9																			
80																			
1																			
2																			
3																			
4																			
5																			
Total		8	49	81	58	35	11	5	247		6	66	53	19	5				149

Table 95.--Sample age composition of large and scrod haddock landings from north Gulf of Maine (ICNAF 5Y North) August-October 1960

Length (cm.)	Large									Age in years										Total
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+	Total	
27																				
8																				
9																				
30																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				2
8																				2
9																				2
40																				10
1																				3
2																				15
3																				14
4																				14
5																				18
6																				27
7																				21
8																				25
9																				10
50																				15
1																				9
2																				4
3																				2
4																				2
5																				2
6																				
7																				
8																				
9																				
60																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
70																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
80																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
Total		15	112	86	49	18	15	6	301		19	87	69	18	2					195

Table 96. --Sample age composition of large and scrod haddock landings from north Gulf of Maine (ICNAF 5Y North) November 1960-January 1961

Length (cm.)	Age in years									Age in years									
	Large									Scrod									
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+	Total
27																			
8																			
9																			
30																			
1																			
2																			
3												1							1
4												1							1
5												1							1
6												3							3
7												6							6
8												5	1						6
9												4	1						5
40												12	3						15
1												9	4						13
2												7	9						16
3												7	4		1				12
4												2	13		2				17
5												1	15		--				16
6												3	14		2				19
7		1							1				9		2				11
8		--	1						1				10		2				12
9		--	--						--				5		2				7
50		1	1	3	1				6			3	4		2				9
1		3	6	4	--				13			--	1	--					1
2		4	7	1	1				13				1		1				3
3		3	12	4	3				22			1			2				2
4		--	9	6	--				15										
5		2	10	11	1				24										
6		1	8	7	--				16										
7			9	4	2				15										
8			6	6	2	1			15										
9			2	7	2	1			12										
60			3	3	1	1			8										
1			--	2	1	2			5										
2			1	4	--	1			6										
3				1	2	--			3										
4				1	--	1			2										
5				1	1	2			4										
6				1	1	1	2		5										
7				--	1	1	2		2										
8				1	1	1			3										
9					1	1			2										
70									--										
1									--										
2									--										
3									--										
4									--										
5									--										
6						1			1										
7																			
8																			
9																			
80																			
1																			
2																			
3																			
4																			
5																			
Total		15	75	66	21	14	2		193		63	92	17	5					177

Table 97. --Sample age composition of large and scrod haddock landings from south Gulf of Maine (ICNAF 5Y South) February-April 1960

Length (cm.)	Age in years															Total			
	Large					Scrod													
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+	Total
27																			
8																			
9																			
30																			
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			1
9																			--
40																			--
1																			1
2																			--
3																			1
4																			--
5																			1
6																			--
7																			4
8																			4
9																			3
50																			1
1																			2
2																			4
3																			2
4																			9
5																			2
6																			3
7																			1
8																			2
9																			4
60																			2
1																			2
2																			1
3																			3
4																			8
5																			5
6																			2
7																			3
8																			1
9																			3
70																			3
1																			2
2																			1
3																			3
4																			8
5																			5
6																			2
7																			9
8																			4
9																			6
80																			1
1																			2
2																			5
3																			7
4																			9
5																			12
6																			4
7																			6
8																			1
9																			3
90																			1
1																			2
2																			4
3																			7
4																			9
5																			12
6																			4
7																			6
8																			1
9																			3
100																			1
1																			2
2																			4
3																			7
4																			9
5																			12
6																			4
7																			6
8																			1
9																			3
Total				17	41	42	12	3	3	118		2	10	35	7	6			60

Table 98. --Sample age composition of large and scrod haddock landings from south Gulf of Maine (ICNAF 5Y South) May-July 1960

Length (cm.)	Age in years										Scrod									
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+	Total	
27																				
8																				
9																				
30																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																			1	
9																			--	
40																			1	
1																			--	
2																			1	
3																			--	
4																			1	
5																			--	
6																			1	
7																			--	
8																			1	
9																			--	
50				2					2										--	
1				--					--										--	
2				--					--										--	
3																			1	
4			1	1	1				3										--	
5			--	2	1				3										--	
6			1	--	--				1										--	
7			--	2	1			1	4										--	
8			2	2	1			--	5										--	
9			1	4	1			--	6										--	
60			2	3	1	1		--	7										--	
1			--	1	3	--		--	4										--	
2			1	2	--	--		--	4										--	
3				1	1	2		--	4										--	
4				1	--	--		--	2										--	
5				--	--	--		--	--										--	
6				1	1	--		--	2										--	
7				--	--	--		--	--										--	
8					1	1	2	--	4										--	
9					1	2	--	--	3										--	
70					--	--		--	--										--	
1					--	--		--	--										--	
2					1	--		--	2										--	
3						--		--	2										--	
4						--		--	--										--	
5						--		--	--										--	
6						--		--	--										--	
7							1	--	1										--	
8								--	--										--	
9								--	--										--	
80								--	--										--	
1								--	--										--	
2								--	--										--	
3								--	--										--	
4								--	--										--	
5								--	--										--	
Total		1	10	20	13	6	8	4	59		3	25	21	7	3				59	

Table 99.--Sample age composition of large and scrod haddock landings from south Gulf of Maine (ICNAF 5Y South)  
August - October 1960

Length (cm.)	Age in years									Scrod										
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+	Total	
27																				
8																				
9																				
30																				
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8												1								1
9												1								1
40												1								1
1													1							1
2												4	1							5
3												1	4							5
4												1	2	2						5
5												1	3							4
6												2	1	3						6
7												--	4		1					5
8												1	5		1					7
9													5	2	2					9
50													2		1					3
1													1							1
2													1	3						4
3																				1
4																				--
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80																				
1																				
2																				
3																				
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6																				
7																				
8																				
9																				
Total		3	18	27	14	9	2	3	76		13	30	12	5						60

Table 100. --Sample age composition of large and scrod haddock landings from south Gulf of Maine (ICNAF 5Y South) November 1960 - January 1961

Length (cm.)	Age in years										Scrod									Total
	Large																			
	2	3	4	5	6	7	8	9+	Total	1	2	3	4	5	6	7	8	9+	Total	
27																				
8																				
9																				
30																				
1																				
2																				
3																				
4																				
5																				
6																				
7																			1	
8																			1	
9																			1	
40																				
1																			--	
2																			3	
3																			2	
4																			1	
5																			5	
6																			7	
7																			2	
8																			5	
9			1																4	
50			1																2	
1				1															2	
2				4	--	2													7	
3				1	1	4													--	
4				4	2	1													--	
5				3	8	2													1	
6				--	5	1													6	
7				2	1	2													6	
8				1	2	3													7	
9				--	5	--													6	
60				--	1	3													4	
1				2	4	2													10	
2					2	2													5	
3					--	--													1	
4					2	3													5	
5					1	--													2	
6					1	2													3	
7						2													2	
8						--													--	
9						1													1	
70						1													1	
1																			1	
2																			1	
3																				
4																				
5																				
6																				
7																				
8																				
9																				
80																				
1																				
2																				
3																				
4																				
5																				
Total		2	17	36	31	5	3	3	97		9	14	15	5	1				44	

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As the Nation's principal conservation agency, the Department works to assure that nonrenewable resources are developed and used wisely, that park and recreational resources are conserved for the future, and that renewable resources make their full contribution to the progress, prosperity, and security of the United States--now and in the future.

