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Relation Weight-Size of Haddock in Subarea 3

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The material of haddock Melanogrammus aeglefinus (L.) used for the present study was collected from Spanish fishing vessels operating on the Grand Bank in 1955.

The results of the weighings carried out on board the fishing vessels at sea were found to be too inaccurate to furnish a satisfactory base for the determination of the relation weight-size. Therefore they were discarded and substituted by weighings carried out in the laboratory (onshore). The smaller haddock were weighed on a small scale allowing an exactitude of around 1 gram, the larger on a bigger scale and with an exactitude of around 14 grams. The number of specimens weighed and measured is 1,583.

The table below gives the weight in grams corresponding to each centimeter length, and the difference in weight between males and females of the same centimeter length (from 29 cm. and upwards).

Based on the data in the tables the curve: relation weight-length presented in the figure attached has been elaborated. The relation curve has the form of a parabola, with some small deviations for the sizes 54-62 cm; these deviations are, however, so insignificant that they do not affect the main result.

The smallest male found weighed 210 g. and the largest 2,721; for the females the corresponding figures are 240 g. and 2,040 g.

Table: Haddock. Relation Weight-Size

Length Cms.	Weights Grams			Extreme Variation
	Minimum	Mean	Maximum	
12	22	25	28	6
13	25	26	27	2
14	27	31	35	8
15	33	35	38	5
16	40	42	45	5
18		52		
22		99		
26	180	231	283	103
27	180	185	190	10
28	187	215	227	40
29	112	218	255	143
30	143	234	285	142
31	153	254	397	244
32	278	320	368	90
33	290	352	398	108
34	247	382	482	235
35	320	392	482	162
36	326	411	510	184
37	368	460	623	255
38	311	498	652	341

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Table (continued)

Length Cms.	Weights Grams			Extreme Variation
	Minimum	Mean	Maximum	
39	300	515	623	323
40	397	570	708	311
41	453	598	772	319
42	481	673	879	398
43	538	707	849	311
44	500	752	906	406
45	567	822	1,049	482
46	679	866	992	313
47	800	944	1,105	305
48	906	1,066	1,105	299
49	973	1,122	1,500	527
50	1,020	1,042	1,049	29
51	1,219	1,285	1,334	115
52		1,389		
53		1,360		
55		1,360		
56	1,559	1,780	2,000	441
57	1,332	1,403	1,474	142
58		1,644		
59	1,644	1,757	1,870	226
60		2,182		
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62		2,040		
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64		2,721		
67		3,000		
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72		4,500		

Average Weights of Males and Females

Cms.	Average Weights		Cms.	Average Weights	
	Males	Females		Males	Females
29	223.5		46	884	859
30	232	254	47	878	913
31	227	265	48	963	991
32	353	317	49	1,048	1,162
33		372	50		1,049
34	390	391	51	1,038	1,205
35	416	430	52	1,000	1,389
36	422	453	53		
37	482	495	54		
38	522	368	55	1,359	1,360
39	518	554	56	1,559	
40	605	583	57	1,403	
41	651	628	58		1,644
42	664	670	59		1,871
43	674	725	60		2,182
44	749	778	62		2,040
45	794	779	64	2,721	

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Relation weight/size of haddock from Sabarus 3, 1955, 1,583 specimens



