

Serial No. 388Document No. 28ANNUAL MEETING - JUNE 1956Fishery Statistics of Haddock, Year 1955

by Alfonso Rojo, PYSBE, Spain

The Spanish vessels fishing in the region of Newfoundland catch principally cod and only secondly the haddock. Therefore the total production of haddock as well as the related yields of haddock per hour in the statistics have smaller values than the quantities of cod caught and the demands of trade. They are, therefore, not sure indices of the natural reserves of the sea.

In order to study this problem, we have made use of the diaries from the fishery of ten vessels day for day during the year 1955, and from these data we have calculated the total fishery of these vessels by months and by subdivisions and the yield per hour in the same periods and localities.

In order that these figures be as real as possible, we have given them in the same way as those for the cod caught under identical conditions and for yield per hour together with those for the cod. The data are approximately 1/3 of the total as the number of boats is around 30.

It should be noted that the quantities stated in the diaries of the fishery are estimated by the captains in a rather rough manner, being far from exact. The experience of the captains in judging the fishery and the amount of fish makes these data good enough to give an acceptable view of the results, even if they are not exact from a rigorous scientific point of view.

Subdivision 3N had the highest production, and thereafter followed in decreasing order 3P, 3O and 4V (Figs. 1, 2 and 3). The figures given are the landings in tons converted fresh round by using the Conversion factor 3.0. The periods of maximum production are March, April and May, and following these, another season with good fishery in July and August.

The yield per hour has, on the whole, been highest in 3N but the data with the highest catch was in 4V in the month of March (Figs. 4, 5 and 6).

The months March-April and September-October have also been considered.

It is an interesting fact that in spite of the fact that the cod and haddock are species of the same family and are fished in identical areas, one finds a disagreement in the yields per hour for these two species. One should think that there would be a biological agreement because both species live together. However, one finds an ecological disagreement when we take this term in its broadest sense.

This anomaly cannot be explained just by the fact that the captains when they catch large quantities of cod are not interested in haddock, because the data of this year, 1955, were collected from vessels which did not make any selection as to

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species and which used both species completely. The figures represent the quantities as coming from the sea because the landings have been multiplied by 3, i.e. the conversion factor for landed fish.

The total catch towards the end of the year was around 20,000 tons landed in port which multiplied by the conversion factor reaches 60,000 tons as coming from the sea. This figure refers to the year 1955 and comprises Subdivisions 3N, 3O, 3P and 4V.

Quantities Fished in Different Subdivisions

<u>Subdivision</u>	<u>Tons</u>	<u>Yield per Hour</u>
4V	853.242	430 Kgs./hr.
3O	4,156.215	741
3P	6,051.645	1,169
3N	6,979.770	705
Total	18,040.872	

The following table gives the total catches per month and the monthly yields per hour.

QUANTITIES OF HADDOCK CAUGHT IN THE VARIOUS MONTHS AND YIELD PER HOUR BY MONTHS

<u>Month</u>	<u>Tons</u> <u>(Con. Fact. 2.9)</u>	<u>Tons</u> <u>(Con. Fact. 3)</u>	<u>No. of</u> <u>hours trawled</u>	<u>Yield per</u> <u>hour trawled</u>
January	15.428	15.960	43.33	368
February	1,382.069	1,432.830	2,144.32	668
March	1,730.069	1,696.557	2,073.88	818
April	2,448.136	2,400.135	3,065.90	783
May	3,113.364	3,052.320	2,189.49	1,395
June	1,018.649	1,074.465	1,120.91	359
July	2,151.089	2,225.265	2,381.50	934
August	2,161.138	2,235.660	3,037.08	736
September	1,453.581	1,503.705	3,368.00	446
October	1,316.860	1,362.270	1,557.24	875
November	745.213	770.910	1,267.58	508
December	261.768	270.795	210.55	1,281
TOTAL	17,797.782	18,040.872	22,459.78	Average 803

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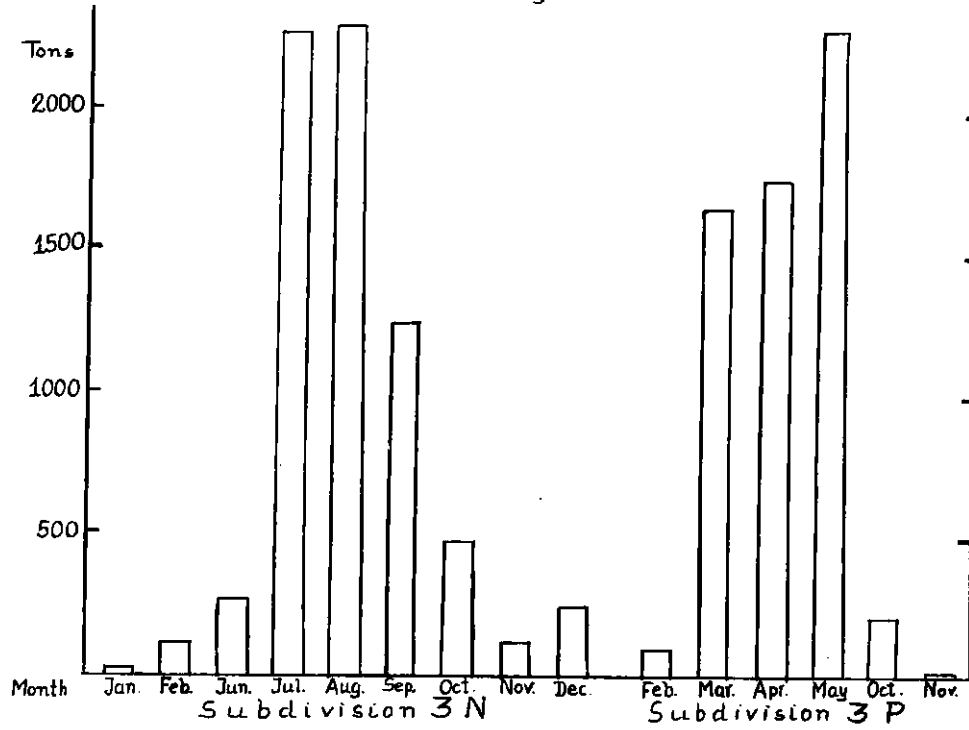


Figure 1. Monthly catches of haddock, 1955, in Subdivisions 3N and 3P.

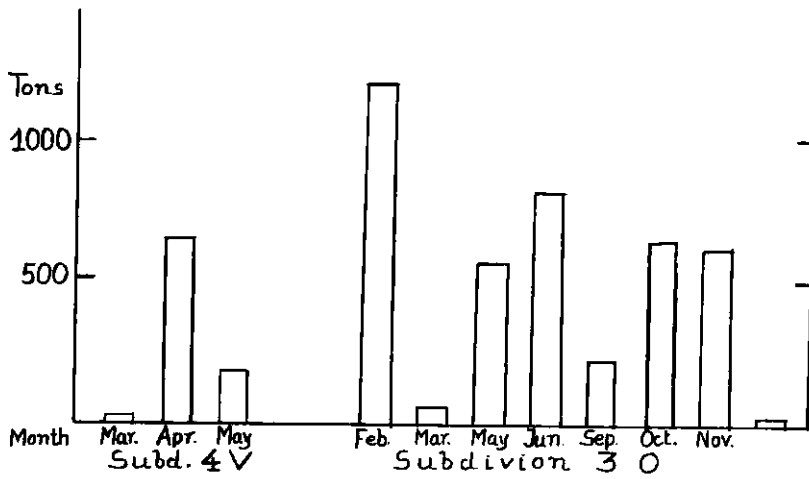


Figure 2. Monthly catches of haddock, 1955 in Subdivisions 4V and 30.

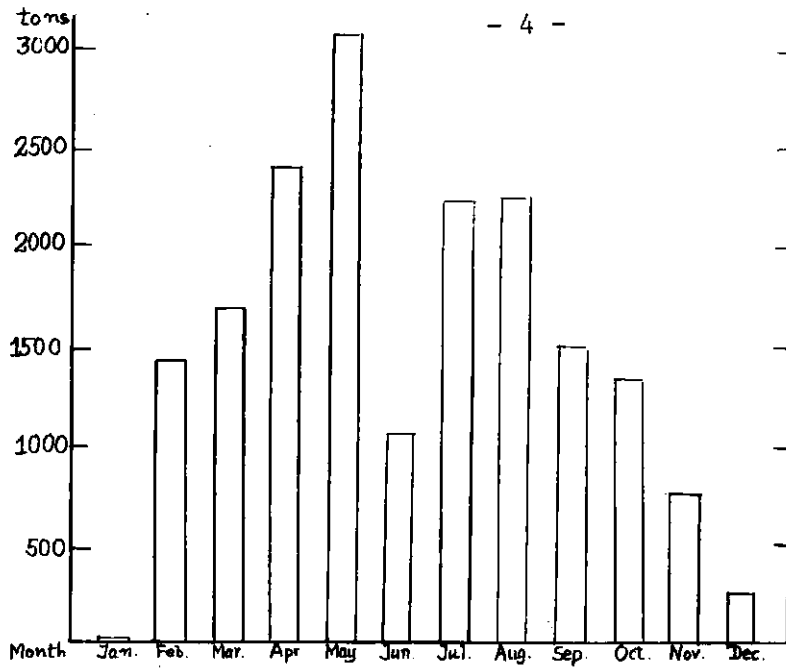


Figure 3. Monthly catches of haddock, 1955, in Subdivisions 3O, 3P, 3N, and 4V. The figure refers to only 10 trawlers = 1/3 of the Spanish fleet. The conversion factor is 3.0.

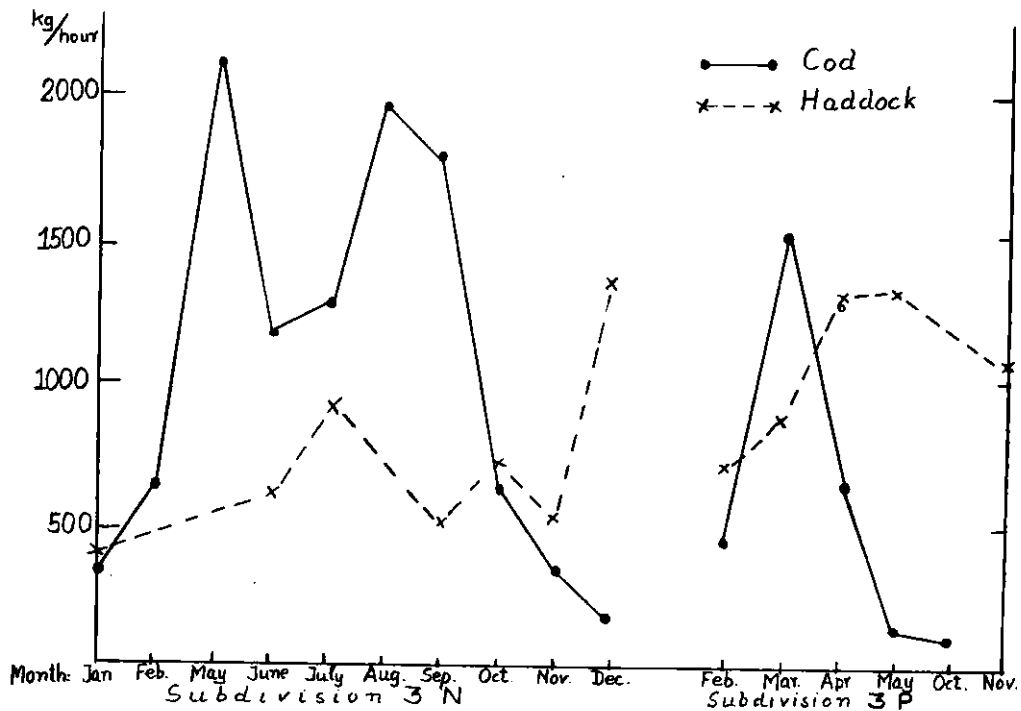


Figure 4. Monthly yields per hour of the fishery of cod and haddock in 1955 in Subdivisions 3N and 3P. Only 10 trawlers considered.

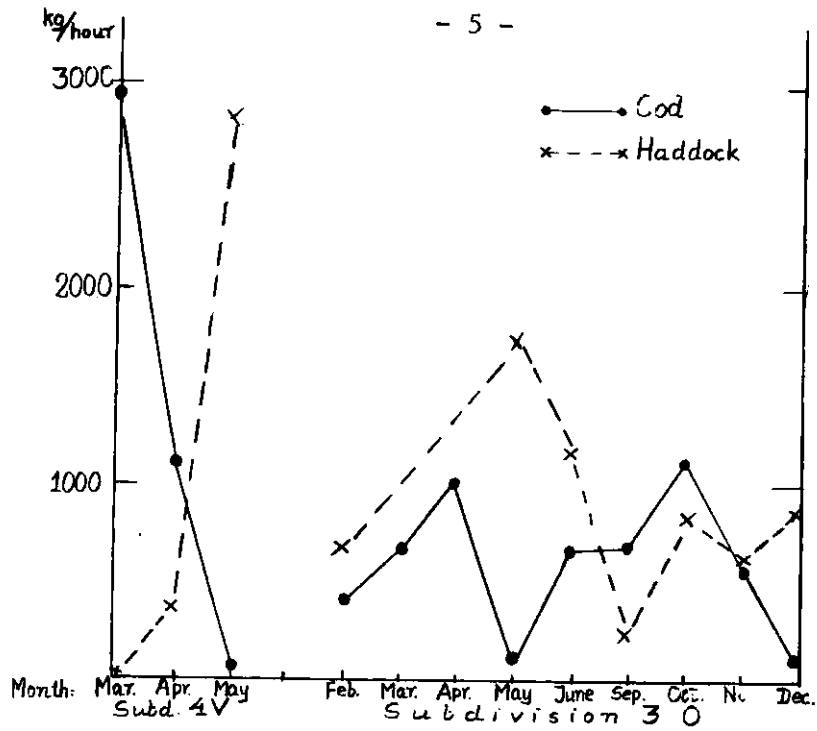


Figure 5. Monthly yields per hour of the fishery of cod and haddock in 1955 in Subdivisions 4V and 30.

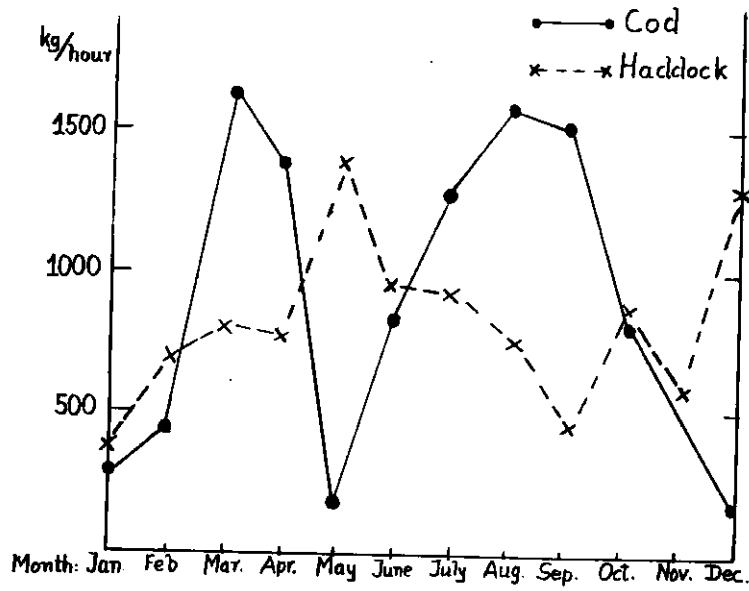


Figure 6. Monthly yields per hour of the fishery of cod and haddock from 10 Spanish trawlers in 1955.

