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UNITED STATES LOBSTER AND SPINY LOBSTER PRODUCTION (1921-49) AND IMPORTS (1920-49)

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ABSTRACT

UNITED STATES PRODUCTION AND IMPORTS OF LOBSTERS AND SPINY LOBSTERS ARE DISCUSSED IN THIS ARTICLE FOR THE PERIOD 1921-49. THE PRINCIPAL LOBSTER FISHERY IN THE UNITED STATES IS IN THE NEW ENGLAND AREA. ALTHOUGH SOME SPINY LOBSTERS ARE PRODUCED IN FLORIDA AND CALIFORNIA, THE AMOUNT IS NEGLIGIBLE AS COMPARED WITH THE TOTAL PRODUCTION OF LOBSTERS AND SPINY LOBSTERS. THERE HAS BEEN A LARGE INCREASE IN THE UNITED STATES LOBSTER CATCH SINCE 1950, BUT THE INCREASE IN THE IMPORTS OF LOBSTER AND SPINY LOBSTERS HAS BEEN EVEN GREATER. SINCE THERE ARE NO GREAT UNEXPLOITED AREAS IN WHICH TO INITIATE NEW LOBSTER FISHERIES, FURTHER INCREASE IN DOMESTIC PRODUCTION IS DEPENDENT ON THE BIOLOGICAL PRODUCTIVITY OF THE STOCKS IN THE NORTH ATLANTIC REGION. GREATER IMPORTS ARE ANTICIPATED IN THE FUTURE, SINCE EXPANSION OF THE UNITED STATES MARKET FOR LOBSTERS AND SPINY LOBSTERS IS INDICATED.

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INTRODUCTION

United States production and imports of lobsters and spiny lobsters have increased markedly within the last several decades. Several accounts of the magnitude of lobster and spiny lobster imports into this country have been prepared. In 1940 and 1941, at the request of the North Atlantic Lobster Conference (an organization formed by the representatives of government and industry in the various lobster-producing states) the senior author prepared several unpublished reports on lobster imports and their relation to the domestic fishery. Chace and Dumont (1949) discussed the recent trends in the spiny lobster fisheries of the world, and presented data on the imports of these crustaceans. It is the purpose of this article to bring up to date the recent developments in the consumption of lobsters and spiny lobsters in the United States.

The references to "lobster" pertain to the North Atlantic species Homarus americanus and H. vulgaris, the common or northern lobsters of North America and Europe. References to "spiny lobsters" include the crustaceans also known as sea crawfish or sea crayfish. The principal species of spiny lobsters imported into this country are Panulirus argus from the Caribbean area, P. interruptus from the the Pacific coasts of Mexico and Central America, P. longipes from Australia, and Jasus lalandei from Africa, Australia, and New Zealand.

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DOMESTIC LOBSTER PRODUCTION

Northern lobsters in the United States are caught in commercial quantities along the Atlantic seaboard from the offshore waters of North Carolina and Vir-

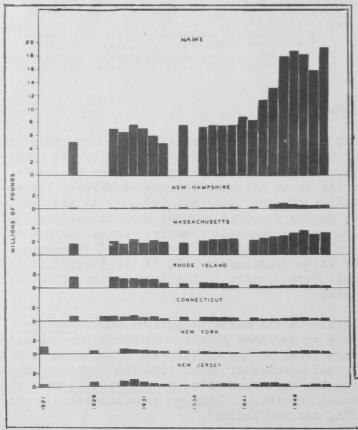
ginia north to the Canadian boundary. Table 1 and Figure 1 show the landings of lobsters in these States since 1921. Note that no statistics are given for northern lobsters caught south of Delaware. The quantities of northern lobsters captured in the waters adjacent to the southern limit of their range is less than 100,000 pounds a year -insignificant in comparison to the total United States production. In 1949, the total U. S. production of northern lobsters amounted to 24,656,000 pounds, valued at \$8,903,000 to the fishermen.



MAINE LOBSTER FISHERMAN SETTING OUT HIS "POTS" OR TRAPS.

The most striking feature of these data is the

great increase in the lobster catch since 1940 when the total United States yield of the lobster fishery was less than 12 million pounds. In 1947, by comparison,



almost 24 million pounds were landed in the New England and Middle Atlantic States alone. Landings dropped to about 21 million pounds in 1948, but the 1949 catch was reported as 24.7 million pounds.

Maine is the greatest producer of lobsters in this country, and the almost spectacular increase in the United States catch has been largely a reflection of the status of the fishery in that State. According to the records, the 1949 catch of over 19 million pounds was the largest since 1889 when 25 million pounds were caught. Both New Hampshire and Massachusetts have shown similar increases in catches since 1940. While lobster production in southern New England and in the Middle Atlantic States has fluctuated considerably since 1921, the production there is too small

to significantly affect the totals.

FIG. 1 - NEW ENGLAND AND MIDDLE ATLANTIC LOBSTER CATCH BY STATES FOR THE YEARS IN WHICH STATISTICAL SURVEYS WERE MADE.

Year	Mai	ne	New Ha	mpshire	N E		NGLA	N D				
Ioai	Pounds	Value (\$)				Massachusetts		Island	Connecticut		Tot	
1921	Founds	Value (4)	Founds	Value (*)	Pounds	Value ()	Pounds	Value (3)	Pounds	Value (3)	Pounds	Value (
	_	_	_	on Tr		-	-	-	7	-	-	-
922				1000	-	-	-	-	-	-	-	-
923	5 513 009	1,772,165	125,600	40,000	3 600 603				-	-	-	-
924	3,515,002	1,772,100	120,000	40,000	1,679,601	557,437	1,696,346	462,000	701,647	240,809	9,716,196	3,072,4
925		_		_	-	-	-	-	-	-	-	-
926			-	-	-	-	-	-	-	-	-	-
927	7 700 770	. 017 451	370 000	40 705	- 4		-	-	673,010	257,720		-
928		2,013,451	130,099	40,785	2,042,331		1,637,659	357,103	693,558	240,981		
929		1,954,346	125,198	41,684	1,630,531		1,353,515	341,568	592,607	. 203,373		
930		2,007,343	180,587	40,363	2,338,234		1,353,107	313,550	734,712	230,266	12,357,322	3,217,4
931		1,633,684	143,289	50,151	2,245,753		1,259,173	269,231	497,494	138,168	11,312,019	
932		1,090,741	219,803	44,479	2,146,371		1,257,204	303,255	589,809	141,148		
933	5,897,585	1,000,094	216,929	48,230	1,928,616	381,649	708,095	113,933	336,800	64,135	9,088,125	1,608,0
934	-	-	-	-	-	-	-	-	-	-	-	-
935	7,687,200	1,767,498	194,400	49,523	1,805,300	448,327	619,000	132,690	546,400	122,186	10,852,300	2,520,
936	-	-	-	-	-	-	-	-	-	-	-	-
937		1,387,436	155,800	37,511	2,134,900	560,291	773,300	173,083	522,900	140,712		
938		1,310,013	170,200	37,272	2,315,100	499,410	709,700	159,876	553,600	136,047		
939	7,570,800		178,900	32,868	2,337,800	472,102	635,800	124,504	588,200	125,115	11,311,500	
940	7,643,000		235,800	44,802	2,438,500		372,600	86,494	475,400	110,865	11,165,300	
941	8,937,182		-	-	-	-	-	-	-	-	-	-
942		1,820,262	292,200	68,159	2,254,000	628,174	432,700	108,177	408,800	115,536	11,791,500	2,740.
943	11,468,000	2,934,303	455,000	136,500	2,518,700		292,400	82,592	230,800	83,081		
944	13,250,100		686,400	171,950	2,741,200		234,200	117,100	291,500	116,125		
945	17,988,200		823,700	347,954	2,873,900		266,700	133,350	314,400	154,771		
946	18,779,000	7,186,325	610,000	273,900		1,408,979	359,800	162,325	400,900	192,583		9.224.
1947	18,277,200		520,000	213,200		1,289,513	392,700	180,701	455,100	217,956		
1948	15,923,000		401,500	248,630		1,379,076	384,600	176,864	305,600	151,870		
1949	19,272,700		415,900	166,360		1,405,385	354,600	155,859	388,300	169,058		
1949	13,572,700	0,550,501						100,000	000,000	105,000	1	
			MI	DDI							New Englan	
Tear	New	York	-	New Jers		Delaw	vare		Total		Middle Atlanti	
	Pounds	Value (1) 196,762	Pour	nds Va	lue (3)	Pounds	Value (₹) 2,600	Pounds	Value		Pounds	Value (
1921	1,037,395	196,762	397	,841	88,588	10,400	2,600	1,445,63	36 287,	930	-	
1922	-	-		-	-		-	_	-		-	-
1923	-	-		-	-	-	-	-			-	-
1924	-	-		-	-	-	-	-	1		-	-
	-	-		-	-	-	-	- 110 1	44 770	500	-	-
1925				,286	193,649	20,640	6,202	1,119,14	44 330,	267	-	-
1926	455,218	130,716	643				0,000					
1926 1927	455,218	130,716	643	-	-	-	-	-	-		-	-
1926 1927 1928	-	-		-	-	-	-	-	-	053		
1926 1927 1928 1929	647,061	173,589	765	5,567	198,882	12,600	3,790	1,425,2			11,747,694	
1926 1927 1928 1929 1930	647,061 536,391	173,589 136,692	765 1,010	5,567	230,110	12,600	3,790 2,620	1,425,22	20 369,	422	13,916,042	3,586,
1926 1927 1928 1929 1930	647,061	173,589 136,692 121,887	765 1,010 653	- ,567 ,579 2,634	230,110	12,600 11,750 11,250	3,780 2,620 2,814	1,425,22 1,558,72 1,148,73	20 369, 30 292,	422 388	13,916,042	3,586,
1926 1927 1928 1929 1930 1931	647,061 536,391 483,846 397,081	173,589 136,692 121,887 70,157	765 1,010 653 470	5,567 5,579 2,634 3,634	230,110 167,687 92,755	12,600 11,750 11,250 11,050	3,780 2,620 2,814 2,763	1,425,22 1,558,72 1,148,73 878,26	20 369, 30 292, 61 165,	422 388 675	13,916,042 12,460,749 11,148,380	3,508, 3,586, 3,010, 2,076,
1926 1927 1928 1929 1930 1931	647,061 536,391 483,846 397,081	173,589 136,692 121,887 70,157	765 1,010 653 470	- ,567 ,579 2,634	230,110	12,600 11,750 11,250	3,780 2,620 2,814	1,425,22 1,558,72 1,148,73	20 369, 30 292, 61 165,	422 388 675	13,916,042	3,586, 3,010, 2,076,
1926 1927 1928 1929 1930 1931 1932	647,061 536,391 483,846	173,589 136,692 121,887	765 1,010 653 470	5,567 5,579 2,634 3,634	230,110 167,687 92,755 67,629	12,600 11,750 11,250 11,050 12,840	3,780 2,620 2,814 2,763 2,568	1,425,22 1,558,72 1,148,73 878,26 723,58	20 369, 30 292, 61 165, 56 137,	422 388 675 453	13,916,042 12,460,749 11,148,380 9,811,681	3,586, 3,010, 2,076, 1,745,
1926 1927 1928 1929 1930 1931 1932 1933	647,061 536,391 483,846 397,081 346,496	173,589 136,692 121,887 70,157	765 1,010 653 470 364	5,567 5,579 2,634 3,634	230,110 167,687 92,755	12,600 11,750 11,250 11,050 12,840	3,790 2,620 2,814 2,763 2,568	1,425,22 1,558,72 1,148,73 878,26	20 369, 30 292, 61 165, 56 137,	422 388 675 453	13,916,042 12,460,749 11,148,380	3,586,
1926 1927 1928 1929 1930 1931 1932 1933 1934 1935	647,061 536,391 483,846 397,081	173,589 136,692 121,887 70,157 67,256	765 1,010 653 470 364	5,567 5,567 2,579 3,634 1,130 4,220	230,110 167,687 92,755 67,629 50,754	12,600 11,750 11,250 11,050 12,840 -4,100 3,600	3,790 2,620 2,814 2,763 2,568 - 1,025 825	1,425,21 1,558,71 1,148,73 878,26 723,55	20 369, 30 292, 61 165, 56 137, 00 138,	422 388 675 453	13,916,042 12,460,749 11,148,380 9,811,681 - 11,495,700	3,586, 3,010, 2,076, 1,745, 2,659,
1926 1927 1928 1929 1930 1931 1932 1933 1934 1935	647,061 536,391 483,846 397,081 346,496 420,500	173,589 136,692 121,887 70,157 67,256	765 1,010 653 470 364	5,567 5,567 2,579 3,634 1,130 4,220	230,110 167,687 92,755 67,629	12,600 11,750 11,250 11,050 12,840	3,780 2,620 2,814 2,763 2,568 - 1,025 825 1,290	1,425,21 1,558,71 1,148,73 878,26 723,55 643,44	20 369, 30 292, 61 165, 56 137, 00 138,	422 388 675 453 946	13,916,042 12,460,749 11,148,380 9,811,681 11,495,700 	3,586, 3,010, 2,076, 1,745, 2,659,
1926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936	647,061 536,391 483,846 397,081 346,496 420,500	173,589 136,692 121,887 70,157 67,256 87,167	765 1,010 653 470 364 218	5,567 1,579 2,579 2,634 1,130 1,220	230,110 167,687 92,755 67,629 50,754	12,600 11,750 11,250 11,050 12,840 - 4,100 3,600 4,300 3,100	3,780 2,620 2,814 2,763 2,568 - 1,025 825 1,290 927	1,425,2: 1,558,7: 1,148,7: 878,2: 723,5: 643,4: 639,9: 574,4:	20 369, 30 292, 61 165, 56 137, 00 138, 00 133, 00 101,	422 388 675 453 946 061 802	13,916,042 12,460,749 11,148,380 9,811,681 11,495,700 11,575,800 11,982,200	3,586, 3,010, 2,078, 1,745, 2,659, 2,437, 2,244,
926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937	647,061 536,391 483,846 397,081 346,496 420,500	173,589 136,692 121,887 70,157 67,256 87,167	765 1,010 653 470 364 218	5,567 5,579 2,634 1,130 4,220 3,800 3,800 5,900	230,110 167,687 92,755 67,629 50,754 56,079	12,600 11,750 11,250 11,050 12,840 4,100 3,600 4,300 3,100 5,900	3,780 2,620 2,814 2,763 2,568 - 1,025 825 1,290	1,425,21 1,558,71 1,148,73 878,21 723,53 643,44 639,90 574,44 672,30	20 369, 30 292, 61 165, 56 137, 00 138, 00 133, 00 101, 00 114,	422 388 675 453	13,916,042 12,460,749 11,148,380 9,811,681 -11,495,700 -11,575,800 11,982,200 11,983,800	3,586, 3,010, 2,078, 1,745, 2,659, 2,437, 2,244, 2,078,
926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1938	647,061 536,391 483,846 397,081 346,496 420,500 366,800 244,400 233,500	173,589 136,692 121,887 70,157 67,256 87,167 - 75,693 53,297 47,743	765 1,010 653 470 364 218 268 326 432	5,567 1,579 2,5634 3,634 3,130 3,220 3,800 3,900 3,900 3,900 3,900	230,110 167,687 92,755 67,629 50,754 56,073 47,578 65,108	12,600 11,750 11,250 11,050 12,840 4,100 3,600 4,300 3,100 5,900	3,780 2,620 2,814 2,763 2,568 - 1,025 825 1,290 927	1,425,2: 1,558,7: 1,148,7: 878,2: 723,5: 643,4: 639,9: 574,4:	20 369, 30 292, 61 165, 56 137, 00 138, 00 133, 00 101, 00 114,	422 388 675 453	13,916,042 12,460,749 11,148,380 9,811,681 11,495,700 11,575,800 11,982,200	3,586, 3,010, 2,078, 1,745, 2,659, 2,437, 2,244, 2,078,
926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1938 1939	647,061 536,391 483,846 397,081 346,496 420,500	173,589 136,692 121,887 70,157 67,256 87,167	765 1,010 653 470 364 218 268 326 432	5,567 5,579 2,634 1,130 4,220 3,800 3,800 5,900	230,110 167,687 92,755 67,629 50,754 56,079 47,578	12,600 11,750 11,250 11,050 12,840 - 4,100 3,600 4,300 3,100	3,780 2,620 2,814 2,763 2,568 - 1,025 825 1,290 927 1,840	1,425,21 1,558,71 1,148,73 878,21 723,53 643,44 639,90 574,44 672,30	20 369, 30 292, 61 165, 56 137, 00 138, 00 133, 00 101, 00 114, 00 129,	422 388 675 453 946 061 802 691 580	13,916,042 12,460,749 11,148,380 9,811,681 11,495,700 11,575,800 11,982,200 11,983,800 11,759,500	3,586, 3,010, 2,078, 1,745, 2,659, 2,437, 2,244, 2,078, 2,130,
926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1938 1939 1940	647,061 536,391 483,846 397,081 346,496 420,500 366,800 244,400 233,500 191,100	173,589 136,692 121,887 70,157 67,256 87,167 75,693 53,297 47,743 48,113	765 1,010 653 470 364 218 268 326 432 401	5,567 1,579 2,634 1,130 1,220 1,220 1,300 1,900 1,900 1,900 1,900 1,900	230,110 167,687 92,755 67,629 50,754 	12,600 11,750 11,250 11,050 12,840 -4,100 3,600 4,300 3,100 5,900 1,200	3,780 2,620 2,814 2,763 2,568 - 1,025 825 1,290 927 1,840	1,425,21 1,558,71 1,148,73 878,21 723,53 643,44 639,90 574,44 672,30	20 369, 30 292, 61 165, 56 137, 00 138, 00 101, 00 101, 00 114, 00 129,	422 388 675 453 946 061 802 691 580	13,916,042 12,460,749 11,148,380 9,811,681 -11,495,700 -11,575,800 11,982,200 11,983,800	3,586, 3,010, 2,078, 1,745, 2,659, 2,437, 2,244, 2,078, 2,130,
926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1938 1939 1940	647,061 536,391 483,846 397,081 346,496 420,500 366,800 244,400 233,500 191,100	173,589 136,692 121,887 70,157 67,256 87,167 75,693 53,297 47,743 48,113	765 1,010 653 470 364 218 268 326 432 401	5,567 5,579 6,634 1,130 1,220 3,800 3,800 1,900 1,900 1,900	230,110 167,687 92,755 67,629 50,754 56,073 47,578 65,108 81,047 72,507	12,600 11,750 11,250 11,050 12,840 - 4,100 3,600 4,300 3,100 5,900 1,200	3,790 2,620 2,814 2,763 2,568 - 1,025 825 1,290 927 1,840 420	1,425,21 1,558,71 1,148,73 878,21 723,55 643,44 639,99 574,44 672,33 594,20	20 369, 30 292, 61 165, 56 137, 00 138, 00 133, 00 101, 00 114, 00 129, 00 111,	422 388 675 453 946 061 802 691 580	13,916,042 12,460,749 11,148,380 9,811,681 11,495,700 11,575,800 11,982,200 11,983,200 11,759,500 12,298,500	3,586, 3,010, 2,078, 1,745, 2,659, 2,437, 2,244, 2,078, 2,130,
1926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1938 1939 1940 1941	647,061 536,391 483,846 397,081 346,496 420,500 366,800 244,400 233,500 191,100	173,589 136,692 121,887 70,157 67,256 - 87,167 75,693 53,297 47,743 48,113	765 1,010 653 470 364 218 268 326 432 401 346 563	5,567 5,579 2,634 1,130 2,220 3,800 9,900 9,900 9,900 1,900 1,900	230,110 167,687 92,755 67,629 50,754 -56,073 47,578 65,108 81,047 -72,507 131,079	12,600 11,750 11,250 11,050 12,840 - 4,100 3,600 4,300 3,100 5,900 1,200 - 3,300 4,500	3,790 2,620 2,814 2,763 2,568 2,568 1,025 825 1,290 927 1,840 420 - 325 1,125	1,425,2; 1,558,7; 1,148,7; 878,2; 878,2; 623,5; 643,4; 639,9; 574,4; 672,3; 594,2; 507,0; 772,7;	20 369, 30 292, 61 165, 56 137, 00 138, 00 101, 00 114, 129, 00 111, 00 205,	422 388 675 453 946 061 802 691 580 980 489	13,916,042 12,460,749 11,148,380 9,811,681 	3,586, 3,010, 2,078, 1,745, 2,659, 2,437, 2,244, 2,078, 2,130, 2,852, 4,233,
1926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1938 1939 1940 1941 1942 1943 1944	647,061 536,391 483,846 397,081 346,496 420,500 244,400 233,500 191,100 156,800 205,000 195,200	173,589 136,692 121,887 70,157 67,256 87,167 75,693 53,297 47,743 48,113 38,648 73,285 70,227	765 1,010 653 470 364 218 268 326 432 401 346 563 525	5,567 1,579 2,534 1,300 1,220 1,300 1,900	230,110 167,687 92,755 67,629 50,754 - 56,079 47,578 65,108 81,047 72,507 131,079 156,808	12,600 11,750 11,250 11,050 12,840 -4,100 3,600 4,300 3,100 5,900 1,200 4,500 4,500	3,790 2,620 2,814 2,763 2,568 1,025 825 1,290 927 1,840 420 - 825 1,125 1,350	1,425,2; 1,558,7; 1,148,7; 878,2; 723,5; 643,44; 639,90; 574,44; 672,30; 507,00; 772,77,725,00;	20	422 388 675 453 946 061 802 691 580 980 489 385	13,916,042 12,460,749 11,148,380 9,811,681 11,495,700 	3,586, 3,010, 2,078, 1,745, 2,659, 2,437, 2,244, 2,078, 2,130, 2,852, 4,233, 4,430,
1926 1927 1928 1929 1930 1931 1932 1933 1935 1936 1937 1938 1939 1940 1941 1942 1943 1944 1944	647,061 536,391 483,846 397,081 346,496 420,500 366,800 244,400 233,500 191,100 156,800 205,000 195,200 140,100	173,589 136,692 121,887 70,157 67,256 87,167 75,693 53,297 47,743 48,113 38,648 73,285 70,227 58,630	765 1,010 653 470 364 218 268 326 432 401 346 563 525	5,567 5,579 2,634 1,130 2,220 3,800 9,900 9,900 9,900 1,900 1,900	230,110 167,687 92,755 67,629 50,754 -56,073 47,578 65,108 81,047 -72,507 131,079	12,600 11,750 11,250 11,050 12,840 - 4,100 3,600 4,300 3,100 5,900 1,200 - 3,300 4,500	3,790 2,620 2,814 2,763 2,568 2,568 1,025 825 1,290 927 1,840 420 - 325 1,125	1,425,2; 1,558,7; 1,148,7; 878,2; 878,2; 623,5; 643,4; 639,9; 574,4; 672,3; 594,2; 507,0; 772,7;	20	422 388 675 453 946 061 802 691 580 980 489 385	13,916,042 12,460,749 11,148,380 9,811,681 	3,586, 3,010, 2,078, 1,745, 2,659, 2,437, 2,244, 2,078, 2,130, 2,852, 4,233, 4,430,
1926 1927 1928 1929 1930 1931 1933 1934 1935 1936 1937 1938 1939 1940 1941 1942 1943 1944 1944	647,061 536,391 483,846 397,081 346,496 420,500 366,800 244,400 233,500 191,100 156,800 205,000 195,200 140,100 309,700	173,589 136,692 121,887 70,157 67,256 87,167 75,693 53,297 47,743 48,113 	765 1,010 653 470 364 218 268 326 432 401 346 563 525 318	,567 ,579 ,634 ,130 ,220 ,300 ,900 ,900 ,900 ,900 ,300 ,300 ,30	230,110 167,687 92,755 67,629 50,754 -56,073 47,578 65,108 81,047 -72,507 131,079 156,808 93,680	12,600 11,750 11,250 11,050 12,840 -4,100 3,600 4,300 3,100 5,900 1,200 4,500 4,500	3,790 2,620 2,814 2,763 2,568 1,025 825 1,290 927 1,840 420 - 825 1,125 1,350	1,425,2; 1,558,7; 1,148,7; 878,2; 723,5; 643,4; 639,9; 574,4; 672,3; 594,2; 507,0; 772,7; 725,0; 460,3;	20 369, 30 292, 61 165, 56 137, 00 138, 00 101, 00 114, 00 129, 00 111, 00 228, 00 228, 00 153	422 388 675 453 946 061 802 691 580 980 489 385 660	13,916,042 12,460,749 11,148,380 9,811,681 11,495,700 11,575,800 11,575,800 11,982,200 11,983,800 11,759,500 12,298,500 15,737,600 17,928,400 22,727,100	3,586, 3,010, 2,078, 1,745, 2,659, 2,437, 2,244, 2,078, 2,130, 2,852, 4,233, 4,430, 9,461,
1926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1940 1941 1942 1943 1944 1944 1944 1944	647,061 536,391 483,846 397,081 346,496 420,500 244,400 233,500 191,100 156,800 205,000 195,200 140,100 309,700 417,300	173,589 136,692 121,887 70,157 67,256 87,167 75,693 53,297 47,743 48,113 38,648 73,285 70,227 56,630 133,661 203,442	765 1,010 653 470 364 218 268 326 432 401 346 563 525 315	5,567 1,579 2,634 1,130 1,220 3,800 - 3,900 1,90	230,110 167,687 92,755 67,629 50,754 - 56,079 47,578 65,108 81,047 - 72,507 131,079 156,808 93,680 69,290	12,600 11,750 11,250 11,050 12,840 -4,100 3,600 4,300 3,100 5,900 1,200 4,500 4,500	3,790 2,620 2,814 2,763 2,568 1,025 825 1,290 927 1,840 420 - 825 1,125 1,350	1,425,21 1,558,72 1,148,77 878,26 723,55 643,44 672,33 594,20 507,00 772,77 725,00 480,21	20 369, 369, 369, 369, 369, 369, 369, 369,	422 423 438 6675 453 675 453 692 691 590 489 385 6660 7732	13,916,042 12,460,749 11,148,380 9,811,681 11,495,700 11,575,800 11,982,200 11,982,200 11,983,800 11,759,500 	3,586, 3,010, 2,078, 1,745, 2,659, 2,437, 2,244, 2,078, 2,130, 2,852, 4,233, 4,430, 9,461, 8,990,
926 927 928 929 930 931 932 933 933 935 936 937 938 939 940 941 942 943 944 1945	647,061 536,391 483,846 397,081 346,496 420,500 366,800 244,400 233,500 191,100 156,800 205,000 195,200 140,100 309,700	173,589 136,692 121,887 70,157 67,256 87,167 75,693 53,297 47,743 48,113 	765 1,010 653 470 364 218 268 326 432 401 346 563 525 315	,567 ,579 ,634 ,130 ,220 ,300 ,900 ,900 ,900 ,200 ,200 ,300 ,300	230,110 167,687 92,755 67,629 50,754 -56,073 47,578 65,108 81,047 -72,507 131,079 156,808 93,680	12,600 11,750 11,250 11,050 12,840 -4,100 3,600 4,300 3,100 5,900 1,200 4,500 4,500	3,790 2,620 2,814 2,763 2,568 1,025 825 1,290 927 1,840 420 - 825 1,125 1,350	1,425,2; 1,558,7; 1,148,7; 878,2; 723,5; 643,4; 639,9; 574,4; 672,3; 594,2; 507,0; 772,7; 725,0; 460,3;	20 369, 202 292, 361, 362, 363, 364, 364, 364, 364, 364, 364, 364	422 423 424 424 425 453 453 453 453 453 453 453 453 453 45	13,916,042 12,460,749 11,148,380 9,811,681 11,495,700 11,575,800 11,575,800 11,982,200 11,983,800 11,759,500 12,298,500 15,737,600 17,928,400 22,727,100	3,586, 3,010, 2,078, 1,745, 2,659, 2,437, 2,244, 2,078, 2,130, 2,852, 4,233, 4,430, 9,461,

LOBSTER IMPORTS FROM CANADA AND NEWFOUNDLAND

In Canada and Newfoundland, the yield of the lobster fisheries has been much greater than in the United States. Table 2 and Figure 2 present the catch of Newfoundland and of the four Canadian lobster-producing provinces since 1920. It is obvious that, during the past few decades, the production there has not increased as markedly as in the United States. The 1945 catch showed an increase of 34 percent over that of 1940, but this augmented figure is much less than the increase of 93 percent in the United States.

While the Canadian and Newfoundland catches have not increased at the same rate as those in this country, the trend each yearhas been towards larger exports to the United States. Figure 3, based on the data in Table 3, illustrates this trend. In the decade 1920 to 1929, imports from Canada were about 58 million pounds, in the next decade (1930 to 1939), about 96 million pounds, and in 1940 to 1949 over 156 million pounds. During the same decades, "not canned" 1 lobster imports from Newfoundland rose from a tenyear total of 57 thousand pounds to about 2 million pounds, and finally in the last decade to over 11 million pounds. In 1949, the imports from Canada were the greatest in history. The recorded imports to this country from Newfoundland have declined in the last few years. This apparent decrease has occurred because Newfoundland has been shipping greater quantities of her lobsters to the United States via Canada. When this occurs, the imports are considered by the United States Bureau of Customs as originating in Canada, rather than in Newfoundland.

There are several reasons for the

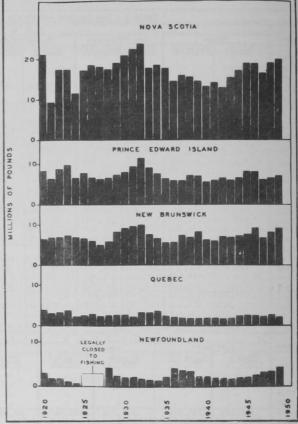


FIG. 2 - CANADIAN (INCLUDING NEWFOUNDLAND)
LOBSTER LANDINGS BY PROVINCES.

increasing importance of the United States
as a market for Canadian and Newfoundland lobsters. The great decline in the
overseas markets has been caused principally by monetary restrictions in other
countries, particularly in Northern Europe. Because of the augmented demand for

Tear	Prince Edv	ard Island	Nova Scotia		New Bru	nswick	- uebec		Newfoundland		Totals	
	Pounds	Value (C3)	Pounds	Value (Ci)	Pounds	Value (C3)	Pounds	Value (CS)	Pounds	Value (Ca)	Pounds	Value (C.
920	8,319,400	703,924	21,393,500	2,768,777	6,434,600	683,585	3,851,000	400,863	3,220,120	-	43,218,620	-
921	6,381,600	255,264	9,311,500	1,622,680	6,846,500	510,388	3,031,100	123,633	1,950,960	-	27,521,660	-
922	8,758,300	651,449	17,370,600	1,953,848	6,955,400	825,919	3,308,200	193,564	1,965,861	-	38,358,361	-
923	9,745,600	378,797	17,272,000	2,239,187	7,368,800	921,831	3,776,400	338,172	1,284,820	-	39,447,620	-
924	6,589,300	564,750	11,527,500	1,367,097	6,830,300	750,495	2,274,200	283,899	759,460	-	27,980,760	-
925	7,857,000	661,095	17,069,800	2,140,228	6,589,400	801,949	2,567,600	210,054	2/	-	34,083,800	-
926	6,629,800	610,757	18,431,600	2,496,006	5,961,100	797,819	2,935,800	251,321	2/	_	33,958,300	-
927	6,280,000	617,057	17,967,300	2,433,107	4,975,200	694,212	2,460,600	217,696	2/2/2/	-	31,683,100	-
928	6,561,300	553,120	17,240,900	2,210,160	5,797,000	632,556	2,644,500	216,126	4,626,121	-	36,869,821	-
929	7,359,000	621,467	19,003,500	2,156,776	8,186,200	853,690	2,733,300	215,063	2,763,282	-	40,045,282	-
930	8,082,000		20,820,100	2,204,153	9,056,700	717,526	2,767,700	216,303	2,401,078	-	43,127,578	-
931	9,415,000	553,676	22,364,900	1,846,037	9,498,800	736,000	2,270,300	119,474	2,416,212	-	45,965,212	-
932	11,457,000	551,731	23,773,000	1,780,026	9,872,200	611,051	3,246,600	164,046	1,999,420	-	50,348,220	-
933	9,154,700	396,248	17,685,800	1,223,980	7,494,000	514,579	3,157,100	161,318	1,793,746	-	39,285,346	-
934	7,658,200	536,012	18,459,000	1,821,419	6,507,300	587,658	3,574,700	264,936	1,580,122	-	37,779,322	-
935	6,387,600	467,804	17,683,600	1,913,774	5,483,100	592,409	2,442,600	196,981	2,417,958	-	34,414,758	-
936	5,928,600	544,365	14,509,100	1,992,170	5,649,900	692,125	2,239,700	223,473	4,523,457	-	32,850,757	-
937	5,823,800	524,847	15,896,100	2,304,302	7,258,600	713,801	2,016,500	206,668	4,140,844	-	35,135,844	-
938	7,121,300	458,762	15,540,500	1,770,722	6,847,400	497,320	1,929,300	137,266	3,885,601	267,923	34,324,101	3,131,9
939	6,997,700	464,429	14,491,000	1,648,483	8,126,200	692,864	1,851,600	128,378	2,756,481	204,516	34,222,981	-3,138,6
940	5,559,900		13,193,500	1,457,279	6,122,500	542,495	1,923,200	117,867	2,679,703	161,732	29,478,803	2,633,34
941	5,995,100	469,153	14,073,400	1,676,447	5,885,000	634,544	1,848,800	131,761	2,378,343	276,201	30,180,643	3,188,1
942	6,445,400	694,816	12,847,100	2,039,954	6,953,000	978,235	1,779,500	175,709	2,136,733	278,775	30,161,733	4,167,4
943	5,971,900	999,930	15,374,300	3,087,766	6,854,500	1,421,915	1,908,500	334,364	1,899,716	245,372	32,008,916	6,089,3
944	6,577,700		17,141,000	4,137,573	7,200,000	1,611,620	2,431,500	430,597	2,292,747	313,936	35,642,947	7,645,4
945	8,115,800	1,503,647	18,894,500	5,819,077	7,585,500	1,940,120	2,584,300	520,130	2,330,112	623,626	39,510,212	
946	7,948,700	1,982,689	18,669,500	6,177,435	9,135,800	2,589,057	2,554,500	615,856	2,790,363	956,466	41,098,863	
947	6,094,000	1,010,000	16,564,000	5,232,000	6,690,000	1,544,000	2,305,000	389,000	3,405,945	850,103	35,058,945	9,025,1
948	6,513,000	1,418,000	19,030,000	5,774,000	8,057,000	2,097,000.	2,665,000	529,000	3,717,551	953,963	39,982,551	10,771,9
949	7,031,000	1,388,000	19,928,000	6,226,000	9,110,000	2,108,000	2,098,000	389,000	4,000,0003	1,000,000	42,167,000	11,111,0

THE 1920-46 STATISTICS FOR PROVINCES OTHER THAN MEMFOUNDLAND OBTAINED FROM ANNUAL FISHERIES STATISTICS OF CANADA AND THOSE FOR 1947-49 TAKEN FROM THE MONTHLY SCYLEY OF CANADA FISHERIES STATISTICS. THE NEMFOUNDLAND STATISTICS FOR 1920-39 OBTAINED FROM TEMPLEMAN 1941, NEWFOUNDLAND GOVERNMEN. RESEARCH BULLETIN NO. 11 (FISHERIES), AND THOSE FROM 7940-48 TAKEN FROM ANNUAL REPORTS OF NEWFOUNDLAND FISHERIES BOARD.

(NO FISHING BY GOVERNMENT ORDER.

[&]quot;NOT CANNED" COMMON OR SPINY LOBSTERS ARE THOSE WHICH ARE SHIPPED INTO THIS COUNTRY NOT HER-METICALLY SEALED IN CANS. COMMON LOBSTERS SO DESIGNATED ARE MAINLY LIVE LOBSTERS, WHILE SPINY LOBSTERS ARE PREDOMINANTLY FROZEN OR COOKED FROZEN MEAT OR TAILS. CANNED COMMON OR SPINY LOBSTERS ARE ALMOST EXCLUSIVELY COOKED MEAT HERMETICALLY SEALED IN CANS.

					C 0	UNT	R Y				
		Newfoundland		British	British		Union of		New	Other	
(ear	Canada	& Labrador	Cuba	West Indies			South Africa2	Australia	Lealand	ountries	Total
	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs-	Lbs.	Lbs.
1920	5,081,901	7	-	440	-	1,107,698	-	-	_	3,134	6,193,18
921	8,138,151	8,130	-	-	-	1,313,064	-	-	-	10,296	9,469,64
1922	4,932,934	3,360	13,295	200	-	829,693	-	200	-	5,853	5,785,53
1923	5,088,518	7,247	25,777	-	-	876,503	9,600	-	-	342,336	6,349,98
1924	4,418,215	6,081	36,075	_	-	829,967	14,248	-	_	7,428	5,312,01
1925	5,810,344	570	25,791	160	15,059	1,065,092	6,000	5,280	-	2,741	6,931,03
1926	5,690,798	72	45,181	-	15,655	779,520		-	-	5,862	6,537,08
1927	5,358,352	-	4,580	2,000	-	1,003,970	-	-	-	490	
1928	5,770,878	18,429	5,720	-	5,067	734.390	2,640	-	-	668	6,537,79
1929	7,537,885	13,442	4,620	-	1,200	1,070,921	-	608	-	150	8,628,82
930	8,830,648	11,926	15,668	-	-	972,633		298	56	-	9,831,22
1931	8,823,442	9,919	75,502	-	-	1,071,560	-	-	-	3,401	
1932	10,928,761	2,319	27,626	70,436	-	665,100	-	-	-		11,694,34
1933	9,900,603	4,960	14,000	81,745	-	621,035	-	-	200	-	10,622,54
1934	8,989,954	-	37,905	285,202		843,766	1,020	-		541	10,158,38
1935	8,363,914	340	76,554	491,389	-	936,334	131,595	-	400		10,020,03
1936	8,812,361	766	161,778	572,348	-	934,353	574,198	-			11,121,53
1937	10,708,460	3,036	207,372	1,071,668	19,777	899,632	1,694,487	-	5,231	101,931	14,711,5
1938	9,974,170	778,874	122,164	999,855	52,273	941,061	1,288,464	-	15,274		14,254,24
1939	10,459,121	1,086,913	156,774	812,209	-	886,798	1,587,270	1,728	-		15,037,61
1940	11,929,091	1,646,728	121,463	711,362	-	894,377	1,928,330	-	-	40,941	17,272,29
1941	12,531,922	1,330,618	938,076	759,545	-	1,181,377	2,751,911	600	-	-	19,494,04
1942	12,034,835	466,755	256,694	815,195	-	758,172	1,140,547		1,650	-	15,473,84
1943	12,549,097	263,400	560,922	981,700	_	915,530	462,800	-	-	-	15,733,44
1944	14,602,168	577,740	571,729	1,164,571	-	827,827	-	-	-	-	17,744,0
1945	18,642,500		353,881	1,487,634	-	1,072,935	433,600	-	-	-	23,033,50
	18,168,887		250,100		79,220	1,671,234		-	-	7,004	25,470,4
	16,138,143	2,262,784	425,201		157,538	1,920,442	2,236,780	97,482	29,256	8,918	24,715,20
	19,058,921	1,791,250	1,150,792			2,052,531	2,657,178	514,290	30,410		28,607,3
	20,794,570		1.449.217			2,053,779	2,384,516	1.644.151	394,252	15,280	30,678,8

lobsters in the United States, due principally to the relatively prosperous conditions prevailing here, Canada and Newfoundland have been encouraged to export

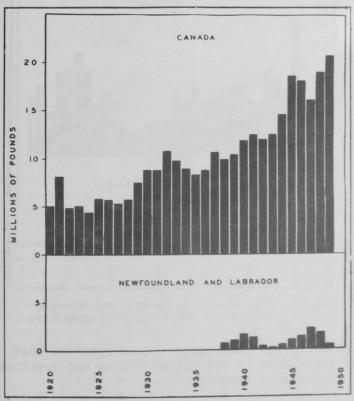


FIG. 3 - U.S. LOBSTER IMPORTS, NOT CANNED, FROM CANADA AND NEWFOUNDLAND (INCLUDING LABRADOR), 1920-49.

greater quantities to this country. This commerce has been encouraged further by modern transportation The use of large refrigmethods. erated trucks and trailers has enabled the Canadians and Newfoundlanders to ship live lobsters to the United States market with relatively small losses. Since the demand for live lobsters is much greater and generally more profitable than that for the canned product, the bulk of the production is sent to the coastal cities in the New England States where the lobsters are marketed or are reshipped to other points in the country. Rockland and Portland in Maine, and Gloucester and Boston in Massachusetts are the principal ports to which the live lobsters are shipped. These cities contain extensive facilities for handling the crustaceans.

The imports of canned lobsters from Canada and Newfoundland have not shown the same trend as those not canned. Figure 4 illustrates the yearly fluctuations in the can-

					C O U	N T	RY			
		Newfoundland		British	British		Union of	United	Other	
Tear	Canada	& Labrador	Cuba	West Indies	Honduras	Japan	South Africa	Kingdom	Countries	Total
	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.
1920	3,056,222	103,945	-	-	-	14,786	43,296	6,140	372	3,224,7
921	1,490,196	41,588	-	-	-	17,004	8,000	30,610	507	1,587,9
922	1,741,851	34,016	10,201	-	-	162,984	54,260	389	80,465	2,084,1
923	2,020,791	15,175	22,912	-	3,460	-	57,880	5,300	21,428	2,146,9
924	1,204,316	2,484	64,463	-	9,900	156	125,512	3,482	11,266	1,421,5
925	1,274,064	2,060	12,251		65,297	200	51,500	11,444	33,781	1,450,5
926	1,586,596	560	35,768	-	40,309	-	72,120	28,973	27,907	1,792,2
927	1,579,512	915	14,532	4,560	56,988	-	100,520	8,215	14,951	1,780,
928	1,473,150	42,551	20,476	-	12,600	-	49,686	1,997	5,526	1,605,9
929	1,304,164	126,376	15,340	-	240	-	43,258	816	-	1,490,
930	1,270,800	32,857	12,822	-	-	1,500	25,200	1,505	473	1,345,
931	1,648,818	22,390	1,640	-	-	106	21,760	237	7,770	1,702,
932	1,257,550	19,764	5,803	-	-	-	1,278	7,493	15,190	1,307,0
933	1,441,982	16,214	7,073	705	175	_	1,071	766	628	1,468,
934	830,967	9,430	63,631	-	-	80	13,673	512	-	918,
935	636,697	4,220	104,122	7,751	-	-	116,707	3,086	25,054	897.
936	683,507	16,675	106,741	10	-	240	48,810	2,250	6,682	864,9
937	591,138	17,020	82,214	16,219	-	14,950	103,222	1,567	8,086	834.
938	505,164	8,526	101,878	23,351	-	89	84,787	1,538	2,065	727.
939	643,142	20,006	212,361	40,907	-	-	25,023	-	5,024	946
940	1,231,177	10,868	314,027	35,962	-	-	56,137	-	5,140	1,653,3
941	1,424,082	5,328	140,034	220,475	-	-	121,250	-	-	1,911,1
942	1,165,181	1,197	321,190	271,340	-	-	64,544	-	-	1,823,
943	1,809,957	7,652	396,686	58,982	-	-		-	-	2,273,
944	2,300,339	56,351	532,077	21,576	-	-	-		2,475	2,912,8
945	1,987,627	88,587	459,375	-	_	-	-	-	_	2,535,
946	1,850,074	120,747	461,529	-	-	-	-	-	, 25	2,432,3
947	982,751	88,950	122,359	-	C - 1	-	1,325	-	The second second	1,213,9
948	1,541,026	97,884	294,449		-	-	722,151	-		2,711,9
949	1,370,780	38,805	166,248	-	-	-	526,004	-		2,105,6

ned lobster imports, and the data in Table 4 show the imports of both canned lobster and spiny lobster. Comparing the past three decades, we find that 17 million pounds were imported in 1920 to 1929; less than 10 million pounds in 1930 to 1939; and 16 million pounds in 1940 to 1949. The trend has been downward since 1944.

DOMESTIC PRODUCTION OF SPINY LOBSTERS

The United States fisheries for spiny lobsters are carried on in the southern parts of Florida and California. Table 5 and Figure 5 show the available statistics of the landings in these two states since 1920. Like the data for the domestic catch of North Atlantic lobsters, the amounts represent the poundages of

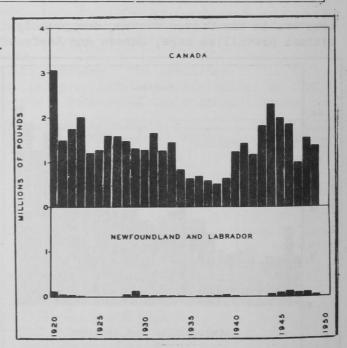


FIG. 4 - U.S. IMPORTS OF CANNED LOBSTERS FROM CANADA AND NEWFOUNDLAND (INCLUDING LABRADOR), 1920-49.

whole crustaceans, live or cooked, landed by the fishermen. It is apparent that the spiny-lobster fishery is of minor importance in the United States and supplies only a small part of these shellfish consumed in this country.

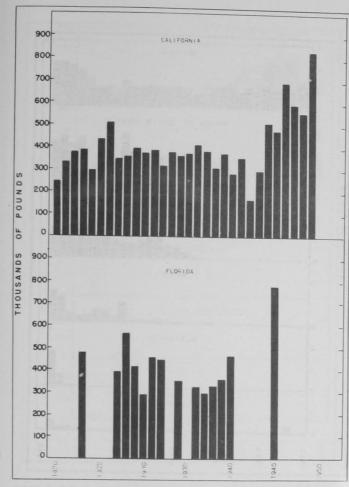


FIG. 5 - CALIFORNIA AND FLORIDA LANDINGS OF SPINY LOBSTERS, 1920-49.

Union of South Africa, Mexico, Cuba, British West Indies, Australia, New Zealand, and British Honduras consist entirely of spiny lobsters.

Figure 6, based on the data in Table 3, presents the yearly imports of "not canned" spiny lobsters from the five principal suppliers to the United States. A remarkable increase can be noted in the shipments since 1935 from the Union of South Africa, from the British West Indies, and from Cuba. Australia began marketing here in 1927 and has greatly augmented her shipments since that time. New Zealand (included with "all others" in Figure 6) has followed Australia's lead and has recently developed her spiny lobster fisheries, with the United States as the primary market.

During the decade 1920 to 1929 the total imports of live, frozen, or cooked spiny lobsters from the five principal sources (Mexico, Union of South Africa, British West Indies,

SPINY LOBSTER IMPORTS

Tables 3 and 4 give the imports of both the lobsters and the spiny lobsters. Since there is no distinction made in the import records between these two crustaceans, is impossible to separate the two groups with certainty, at least from those countries which have welldeveloped foreign commerce and, therefore, may import for export lobsters or spiny lobsters from other countries in which both types of crustaceans are found. Thus, the imports from United Kingdom, Netherlands, Sweden, Belgium, Denmark, Germany, Norway, France, Spain, Portugal, etc., could be either common or spiny lobsters. Fortunately, most imports can be separated with fair accuracy. Imports from Canada, Newfoundland, and Labrador are almost exclusively, if not entirely, the common lobsters, while those from

		Spiny Lobsters by
UI	ited States Fisher	rmen, 1920-49=
Year	California	Florida

Year	Cali	fornia	Florida			
	Pounds	Value (\$)	Pounds	Value (\$)		
1920	247,156	-	- 19	- 1010		
1921	334,271	- 1	METO - GIV	-		
1922	376,310	- Com-	201 - 10	-		
1923	384,381	76,876	477,210	27,685		
1924	294,356	60,375	-	- 1		
1925	432,059	89,207	-	-		
1926	508,123	99,129	-	-		
1927	346,421	71,898	391,253	31,707		
1928	355,800	75,919	564,162	44,522		
1929	396,774	90,610	413,266	36,681		
1930	374,450	74,234	288,309	26,731		
1931	382,611	62,532	455,907	41,530		
1932	319,307	45,061	445,547	32,078		
1933	380,475	53,353	-	-		
1934	366,600	58,349	351,300	17,166		
1935	371,600	64,542	-	-		
1936	414,200	68,153	326,600	20,090		
1937	385,900	71,991	292,500	21,621		
1938	308,400	, 60,916	328,400	23,377		
1939	376,900	71,968	359,200	24,382		
1940	281,100	50,368	463,500	31,501		
1941	357,300	63,549	-	-		
1942	168,600	40,736	-	-		
1943	298,400	93,247	-	-		
1944	512,400	136,551	-	-		
1945	479,100	114,812	777,100	157,427		
1946	691,800	234,140	-	-		
1947	593,400	189,372	-	-		
1948	563,500	229,104	-	-		
1949	834,300	283,325	-	-		
-						

- NOT AVAILABLE.

TFROM DATA PUBLISHED BY THE U.S. FISH AND WILD-LIFE SERVICE AND THE FORMER U.S. BUREAU OF FISH-FRIES. Cuba, and Australia) were about 10 million pounds; in the next decade, the imports rose to 19 million pounds; and in 1940 to 1949, they were over 49 million pounds. In 1949, these five countries shipped about 9 million pounds to this country-almost as much as in the entire decade 1920 to 1929. As the fisheries for these crustaceans are developed in more areas, particularly in the Southern Hemisphere, a further increase in imports may be anticipated.

As Chace and Dumont (1949) have pointed out, the spiny lobster imports from Union of South Africa. Australia, and New Zealand are tails, which represent about one-third the weight of a live animal. Imports from Mexico, British West Indies, Cuba, and British Honduras include both tails and whole lobsters. Therefore, an increase in the poundages of the recorded imports of spiny lobsters from South Africa, Australia, and New Zealand represents a greater contribution of edible food than a similar increase in the imports of mixed whole crawfish and crawfish tails from countries in the Western Hemisphere.

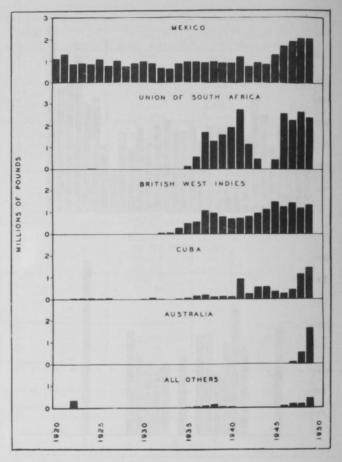


FIG. 6 - U.S. IMPORTS OF SPINY LOBSTERS, NOT CANNED, BY PRINCIPAL COUNTRIES OF ORIGIN, 1920-49.



MAINE LOBSTER FISHERMEN BAITING LOBSTER POTS AT SEA.

Imports of canned spiny lobsters have also increased during the last thirty years. The principal sources of our imports of canned spiny lobsters have been Cuba, Union of South Africa, and the British West Indies. As shown in Table 4, a total of about 8000,000 pounds was imported in the decade 1920 to 1929, increasing in the next decade to a total of 1,200,000 pounds; and increasing again in the period 1940 to 1949 to 5,300,000 pounds (see Figure 7). The increase of imports from Cuba between 1934 and 1944 and the decrease thereafter are also shown. The dominant position of South Africa since 1948 as the principal supplier of their product on the United States market is evident. The yearly totals of imported canned spiny lobsters

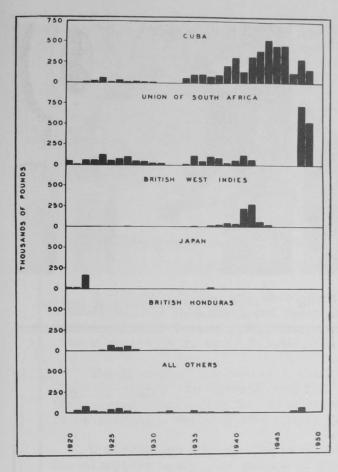


FIG. 7 - U.S. IMPORTS OF CANNED SPINY LOBSTERS BY PRINCIPAL COUNTRIES OF ORIGIN, 1920-49.

are much less than the "not-canned" product, which the American public seems to prefer. With the increasing popularity of frozen foods, the foreign spiny lobster industries are increasing their processing facilities. The canning of these crustaceans will, of course, continue to supply these markets without refrigeration.

EFFECT OF IMPORTS

Many lobstermen, particularly those in New England, believe that the prices which they receive for their catches are greatly influenced by the imports of lobsters, especially those from Canada and Newfoundland. There can be no doubt that the increasing imports of lobsters from these two regions do affect prices. Fortunately, because of the high level of prosperity in the United States, the great quantities of imports and the large domestic production have been absorbed placing undue economic hardships on the New England lobster fishermen. Figure 8 reveals that the estimated total United States production and imports of lobsters and spiny lobsters have risen from a low of about 19 million pounds in 1924 to a high of over 59 million pounds in 1949.

Most New England fishermen are not concerned verymuch about the spiny lobster imports, since relatively few are marketed in New England. The spiny lobsters, how-



USING A DOUBLE-ENDED ROWBOAT, A MAINE LOBSTER FISHERMAN IS HAULING IN A LOBSTER POT OR TRAP.





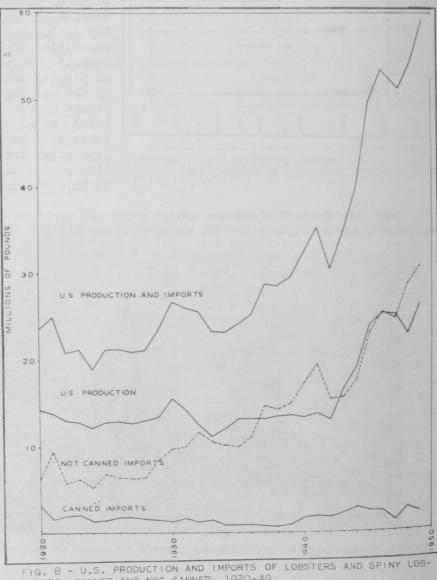
LOBSTER FISHERMAN OFF THE COAST OF MAINE MEASURING A LOBSTER TO SEE WHETHER OR NOT IT COMES WITHIN THE LEGAL-SIZE LIMIT.

PACKING AND WEIGHING LIVE LOBSTERS FOR SHIPMENT.

ever do compete with the common or northern lobster, particularly in restaurants in which various dishes can be prepared from either. Because the frozen spiny-lobster meat or tails can be purchased much more cheaply than the whole northern lobsters or their meat, restaurants are using greater quantities of spiny lobsters. However, the competition has not yet been felt to any great extent in New England where most of the North Atlantic lobsters are marketed. The publichas accepted the spiny lobsters. not necessarily as a substitute for the northern lobster, but rather as a new form of sea food.

OUTLOOK

Further increases in the domestic production of lobsters are dependent upon the biological productivity of the lobster



STERS, CANNED AND NOT CANNED, 1920-49.

populations in the North Atlantic region, for there are no great unexploited areas in which to initiate new fisheries. The spiny lobster fisheries outside the United States, however, are capable of expansion. If our market for these crustaceans continues to develop, we may anticipate greater imports in the future.

LITERATURE CITED

CHACE, FENNER A. JR.; AND DUMONT, WILLIAM H.
1949. SPINY LOBSTERS--IDENTIFICATION, WORLD DISTRIBUTION, AND U.S. TRADE. COMM. FISH.
REV., VOL. 11, NO. 5, (MAY 1949), PP. 1-12, ILLUS.



GROWTH OF SOUTH AFRICAN FISHERIES

The South African and South-West African fishing industries have a total capital investment and reserves of \$21,260,000, having a current market value of \$40,440,000, based on an approximate total annual catch with a wholesale value of \$13,800,000.

The growth of the over-all catch has been significant. Pilchards (Sardina sagax) now outrank crayfish (Jasus lallandii) and stockfish (Merluccius capensis) as the principal catch and local firms are interested in developing a United States market for them.

The crayfish (spiny lobster), third in volume of fish caught in South African waters, is perhaps of most importance to the United States, which has been the major market (over 90 percent of South African crayfish since 1941). Under conservation regulations there is a quota of 6,000,000 pounds of crayfish tails which may be canned or frozen annually for export. The Fisheries Development Corporation estimates that the tail of the South African crayfish is on the average 1/3 of the total weight, which means that the 6,000,000-pound export quota involves a total catch for export of 18,000,000 pounds of crayfish. A further 2,000,000 pounds of crayfish caught for the local market thus brings the gross annual catch in South African waters to 20,000,000 pounds, the remaining 5,000,000 pounds being caught off the shores of South-West Africa.

The South-West African crayfish grounds are being developed rapidly. Four canneries at Luderitz today produce 100,000 24-tonsof offal, valued at \$100,000. A fifth cannery with a cold-storage plant and a fish-oil plant are being erected.

There are currently established by official edict six sanctuaries where the catch of crayfish is prevented—four in the Cape Peninsula area, one at Saldanha Bay, and another at St. Helena Bay. There are also conservation regulations forbidding the taking of soft—shell specimens, of females "in berry," and of crayfish with a carapace—length of less that $3\frac{1}{2}$ inches. The growth of the crayfish industry may be seen in the increase in annual catch from 15,000,000 pounds in 1932 to 25,000,000 pounds in 1947 and the growth of exports of canned and frozen tails from 3,566,000 pounds in 1924 to 6,000,000 pounds in 1947.

--Fishery Leaflet 347