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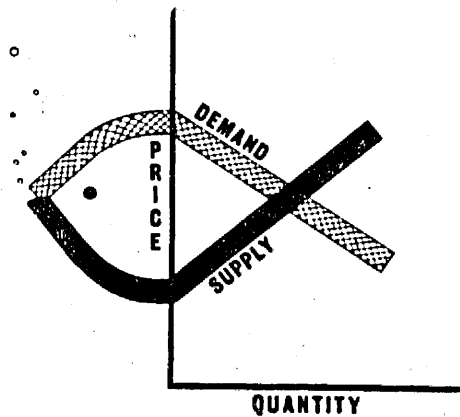
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MAJOR ECONOMIC TRENDS IN SELECTED U.S.

MASTER PLAN FISHERIES:

A GRAPHICAL SURVEY

by

Richard K. Kinoshita

and

Frederick W. Bell

Working Paper No. 37

December 1969

U.S. BUREAU OF COMMERCIAL FISHERIES
DIVISION OF ECONOMIC RESEARCH

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MASTER PLAN FISHERIES: A GRAPHICAL SURVEY

by

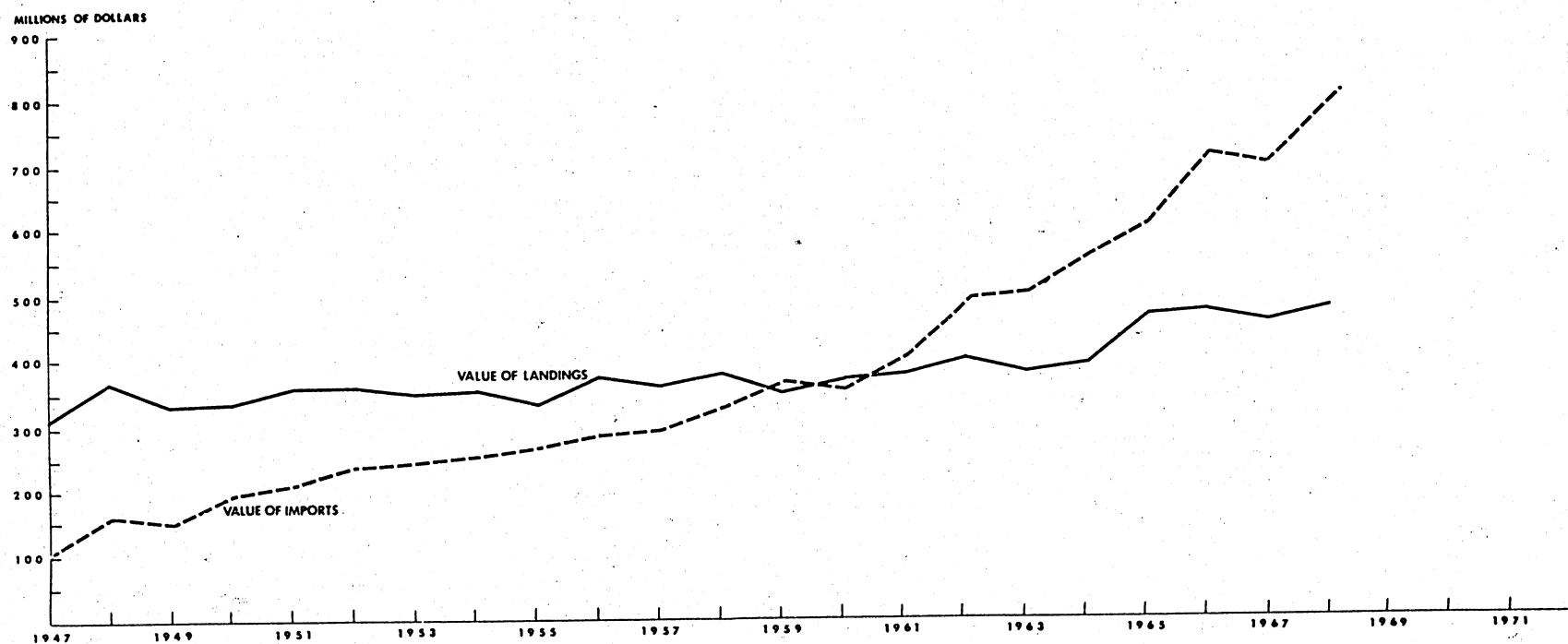
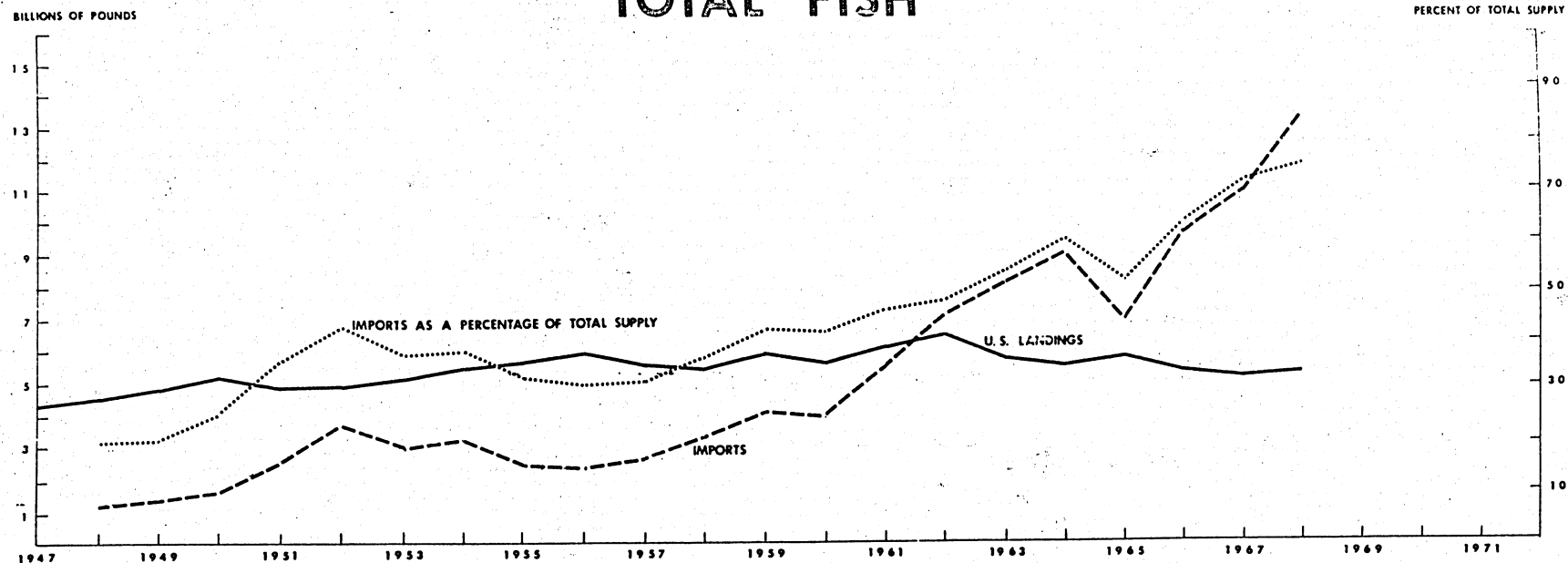
Richard K. Kinoshita and Frederick W. Bell

A graphical presentation provides at a glance the major economic trends for selected U.S. Master Plan fisheries and can serve as a guide to administrators, biologist, economists and others. The figures illustrate the trend in landings, imports, per capita consumption, exvessel price index, fisherman, and vessels and boats. The supporting data appear in the Appendix.

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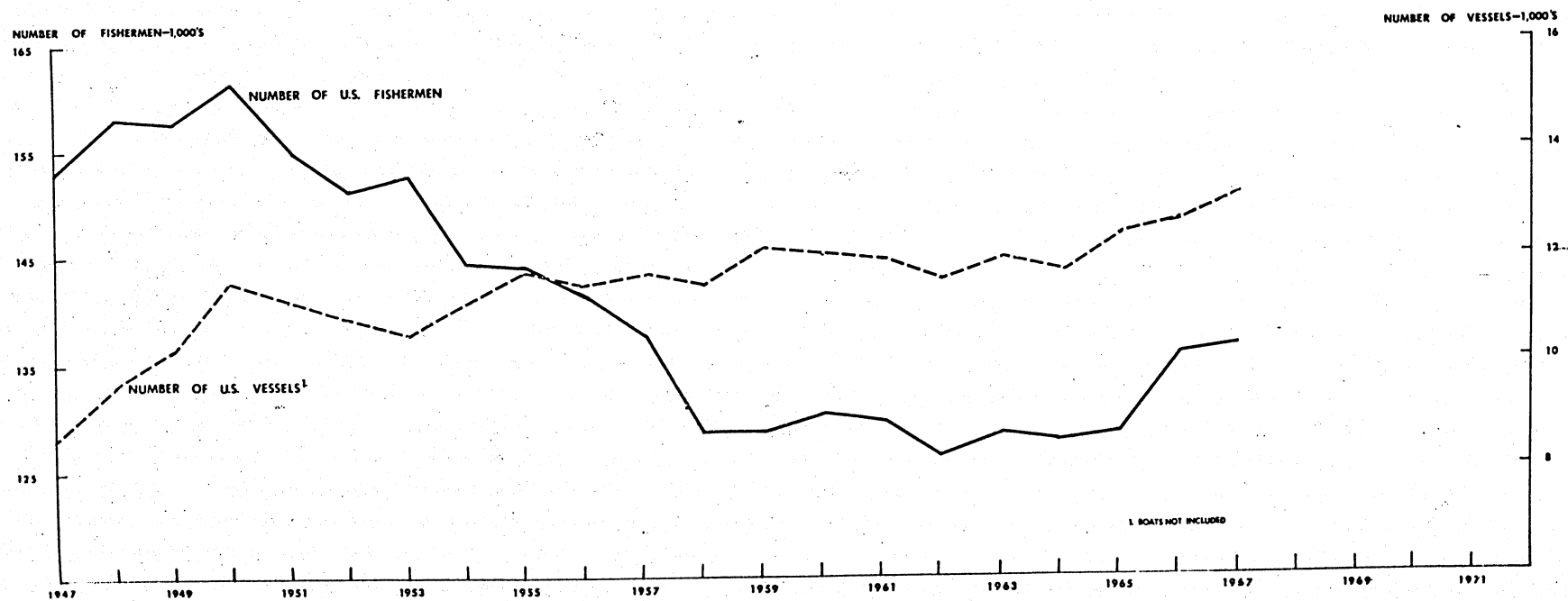
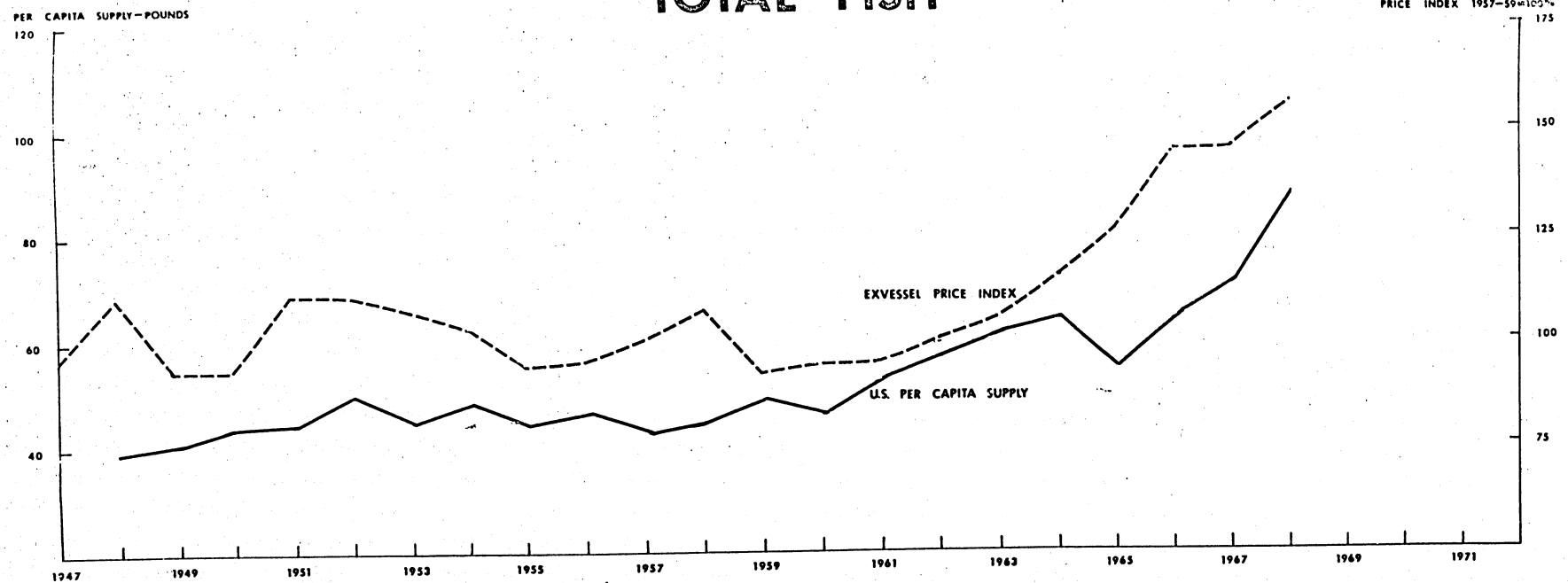
TOTAL FISH



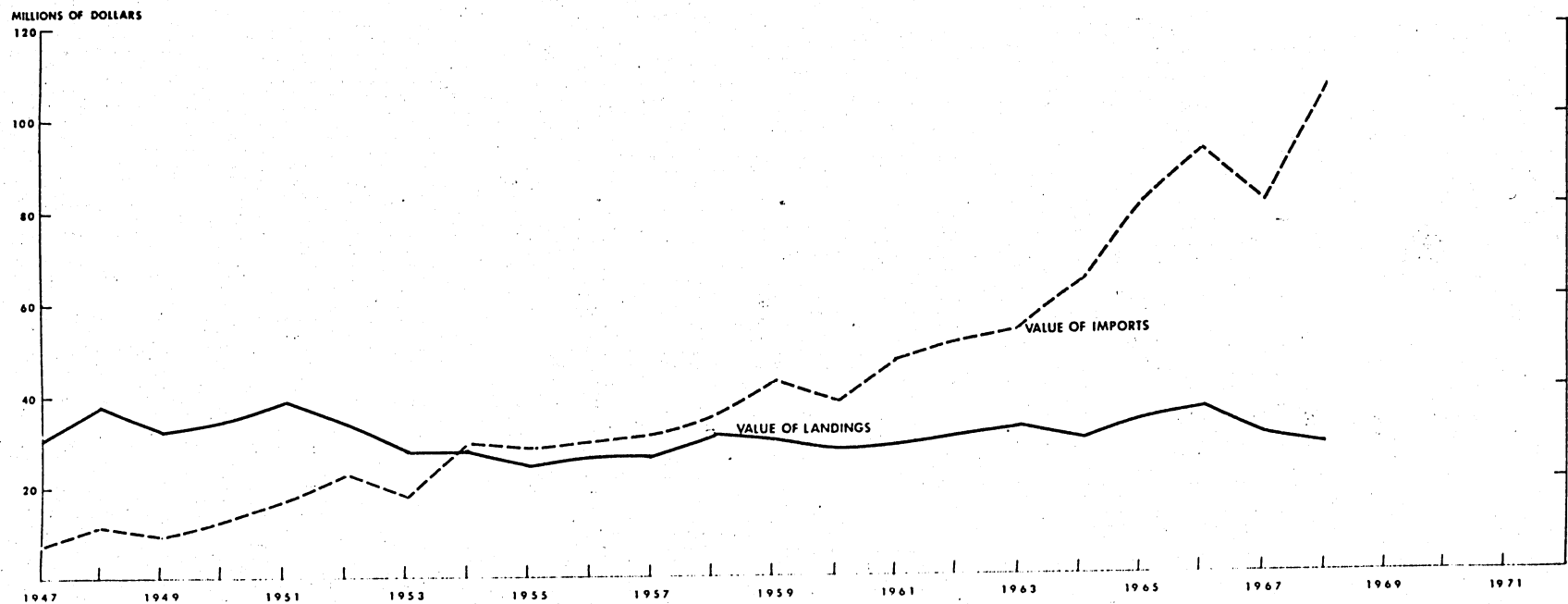
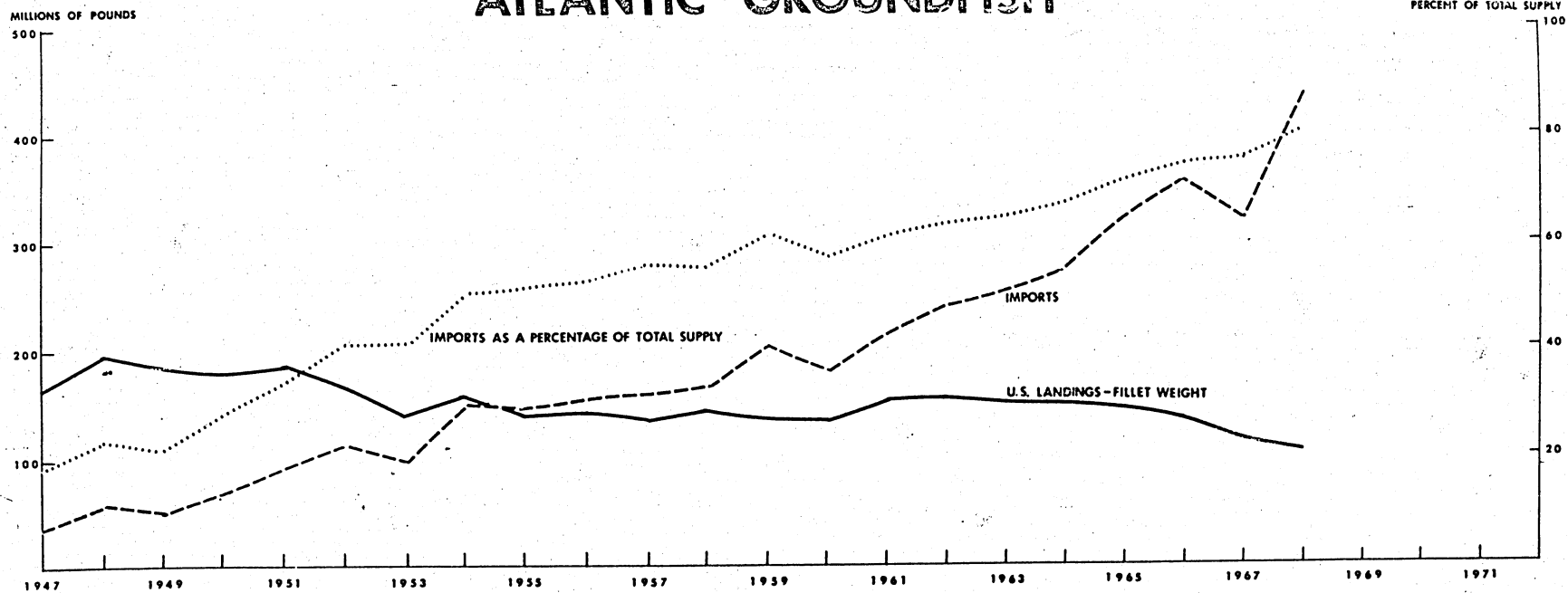
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TOTAL FISH



ATLANTIC GROUNDFISH

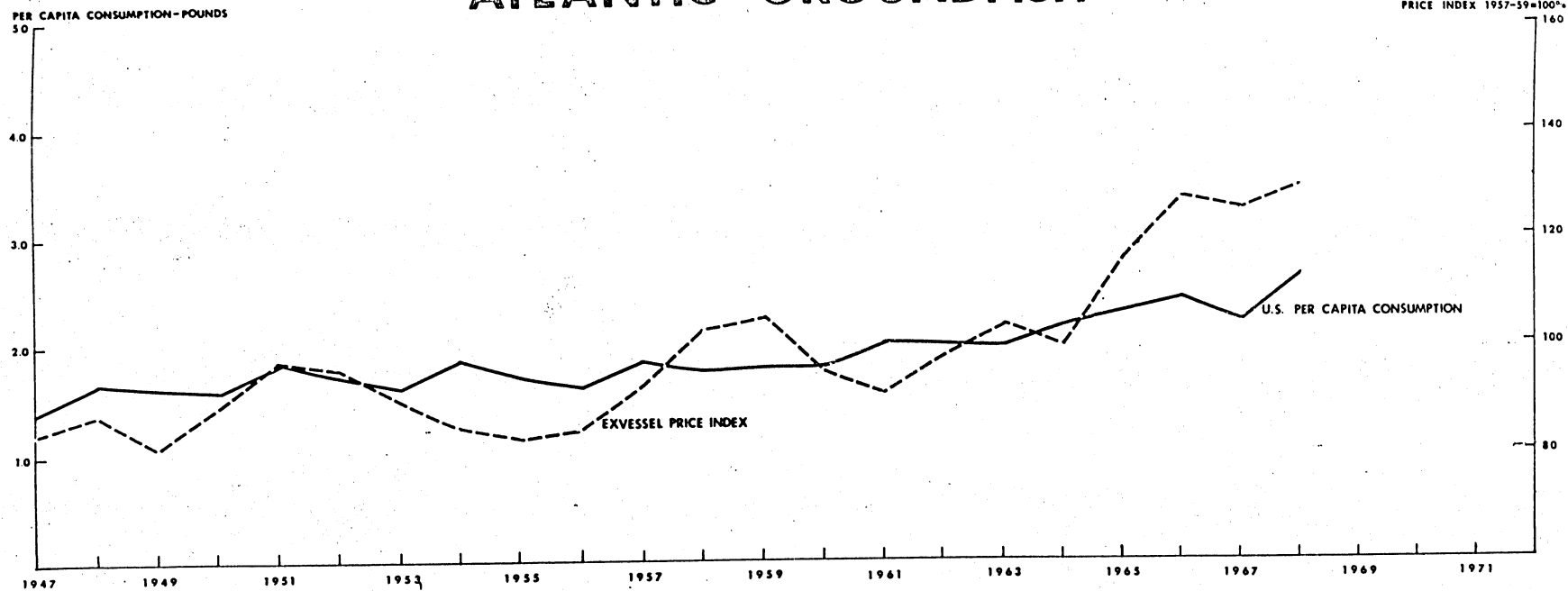


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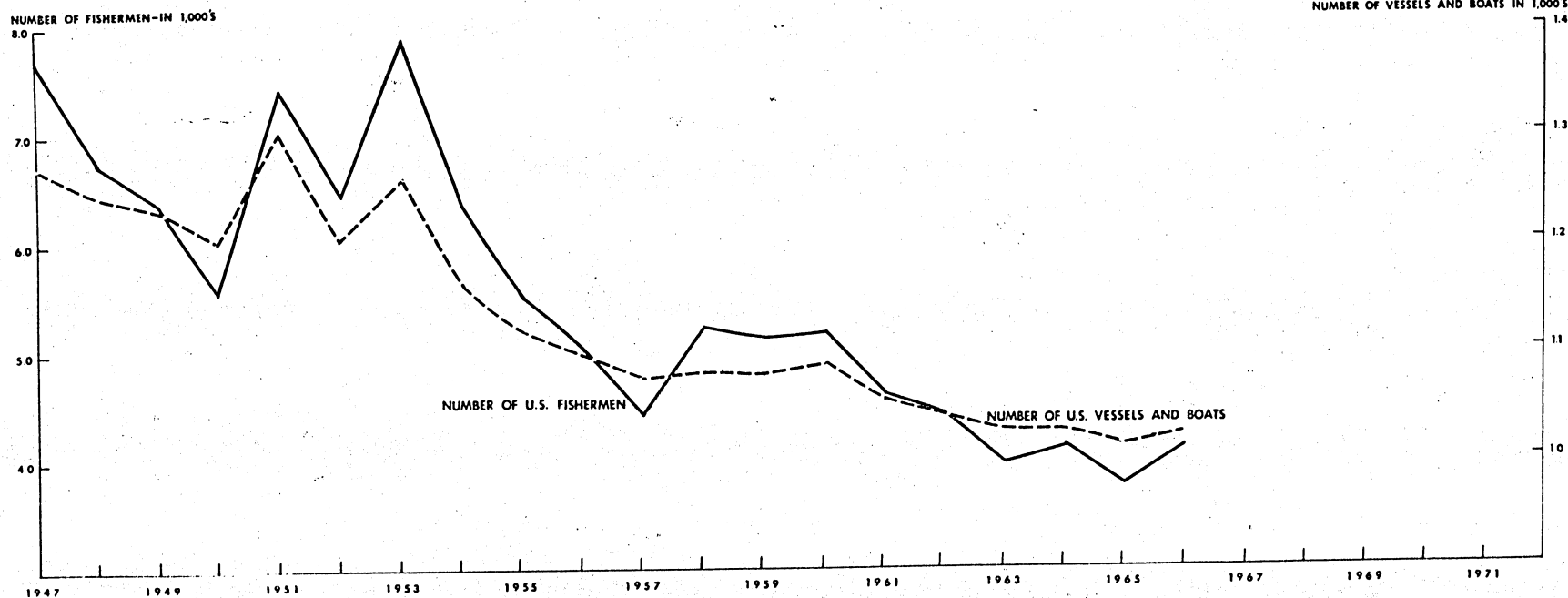
MASTER PLAN FISHERY 50 10 03

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ATLANTIC GROUND FISH

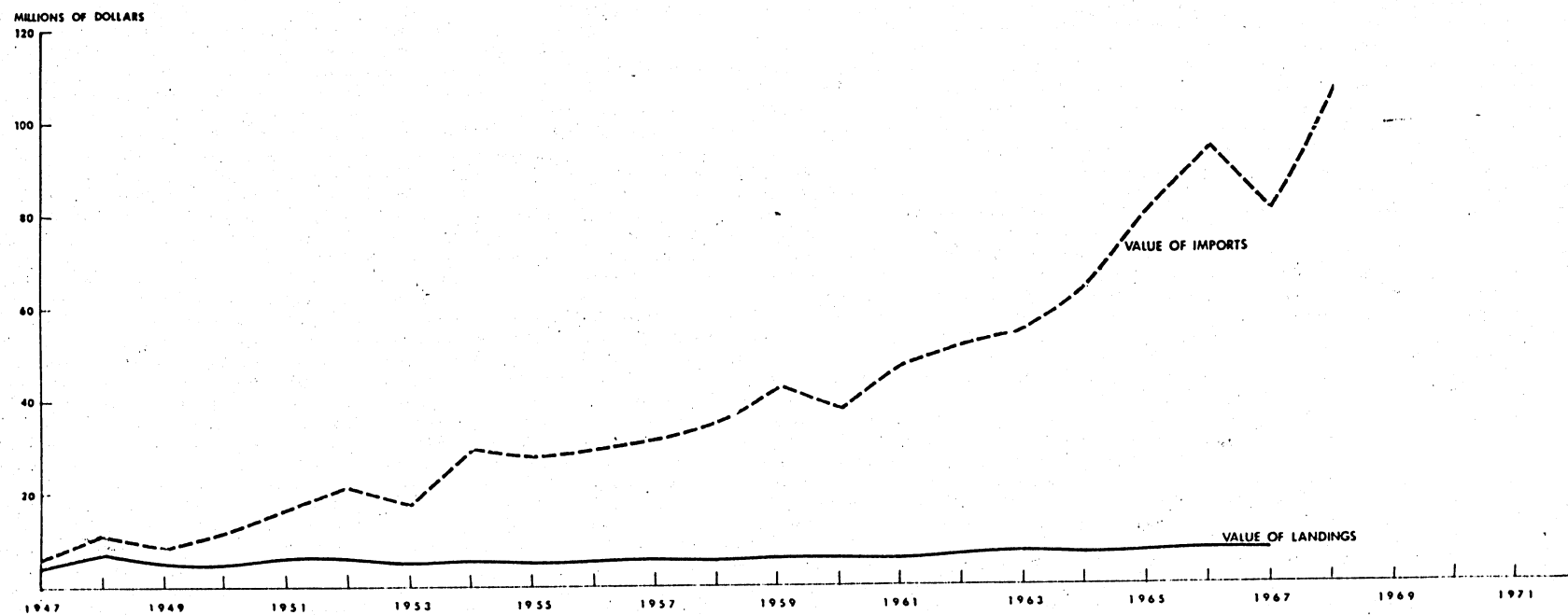
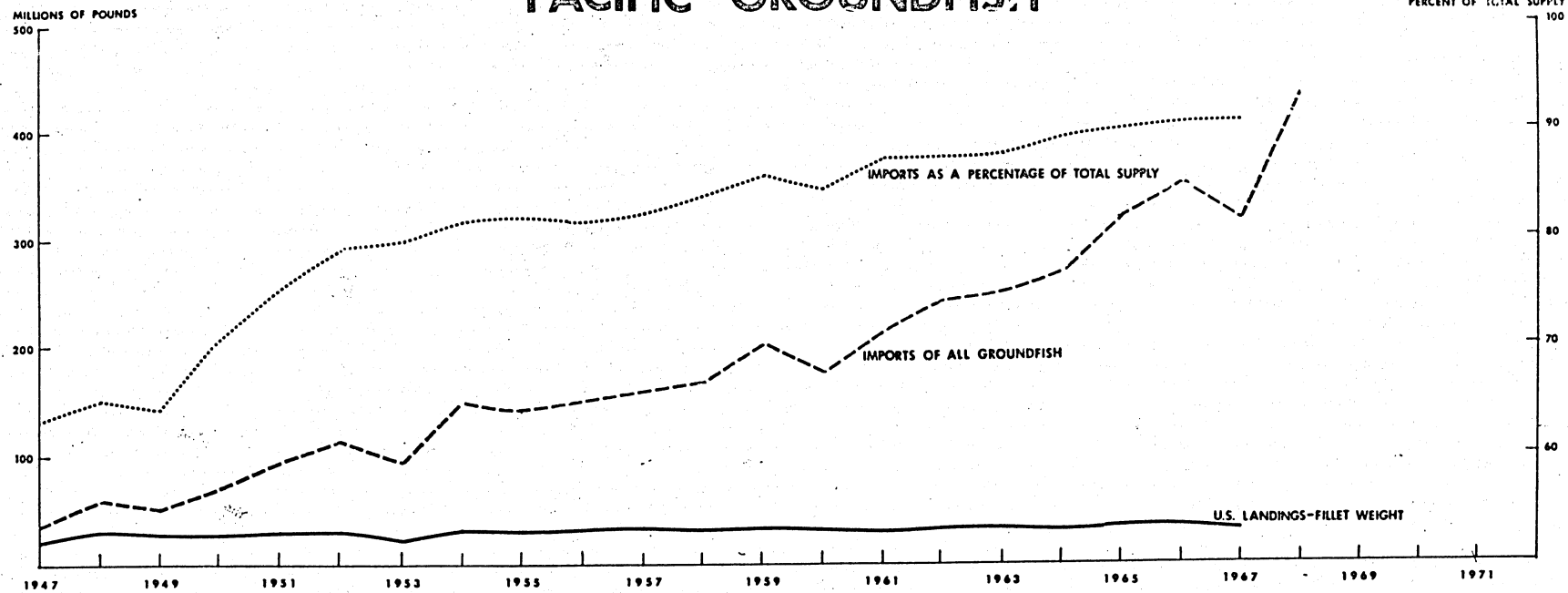


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MASTER PLAN FISHERY 50 10 03

PACIFIC GROUNDFISH

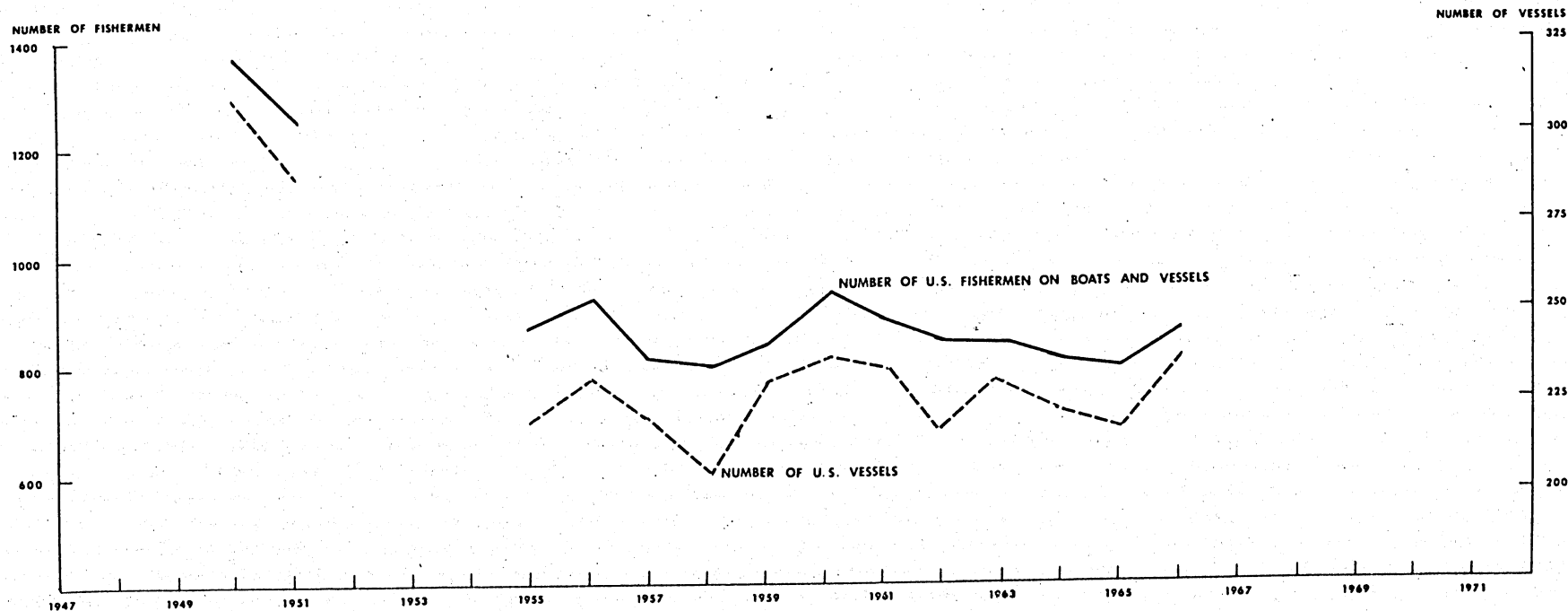
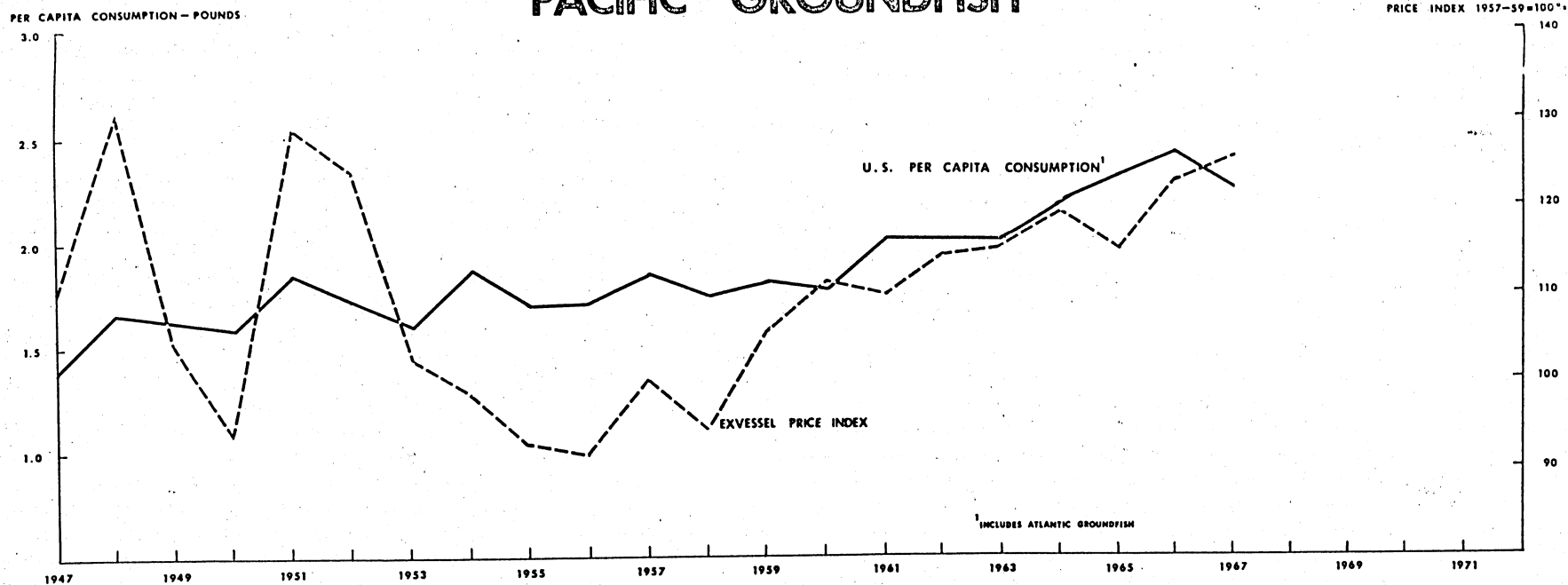


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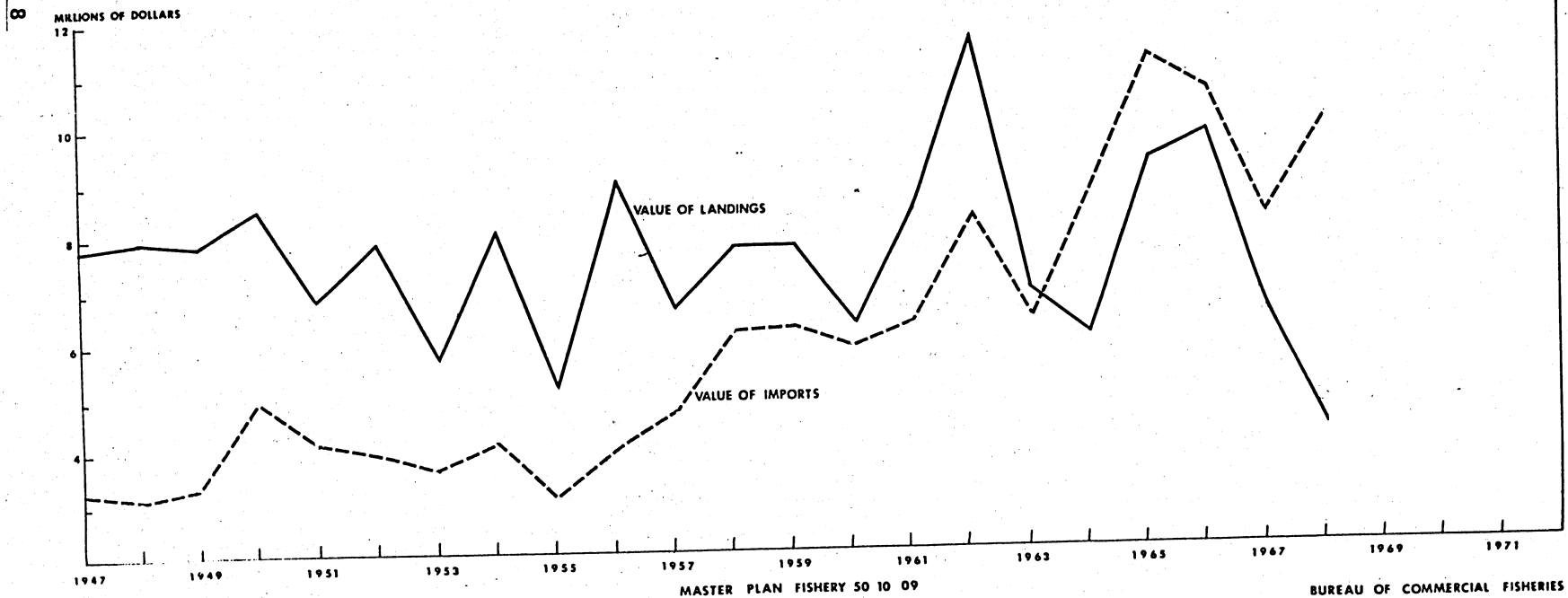
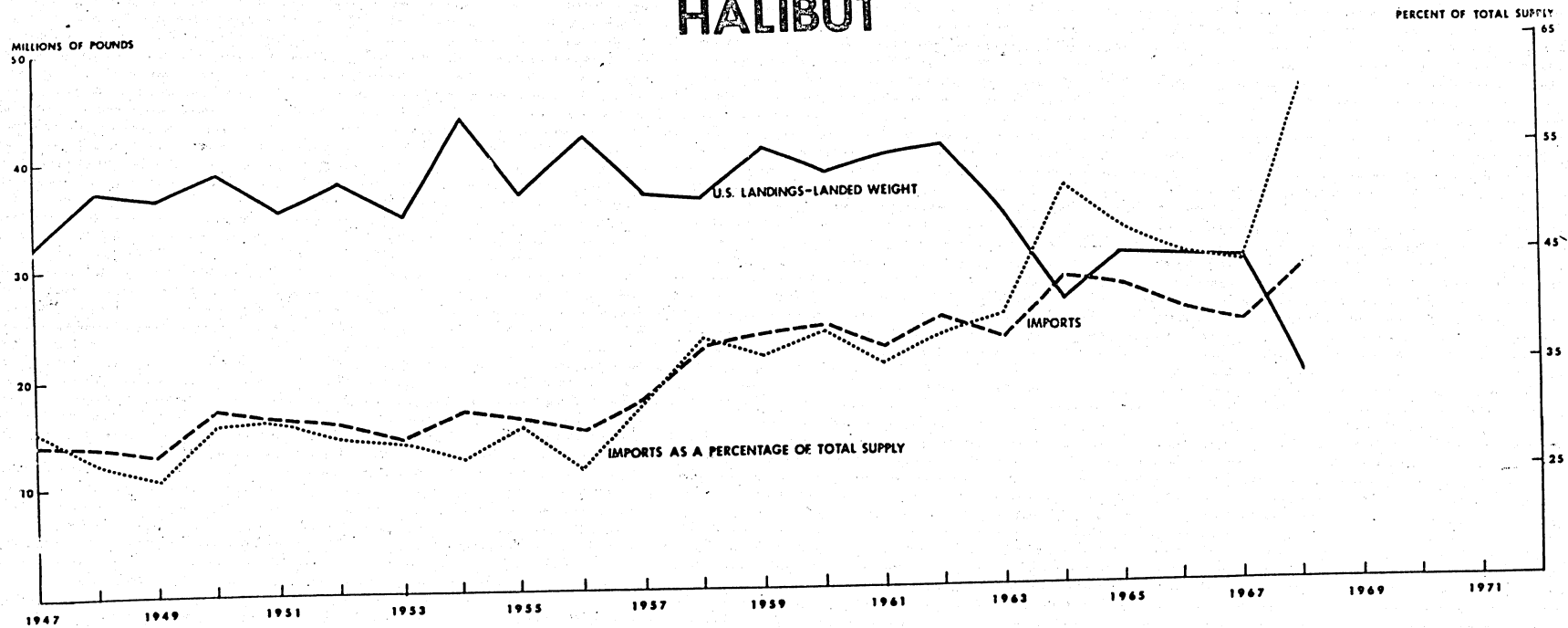
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PACIFIC GROUNDFISH



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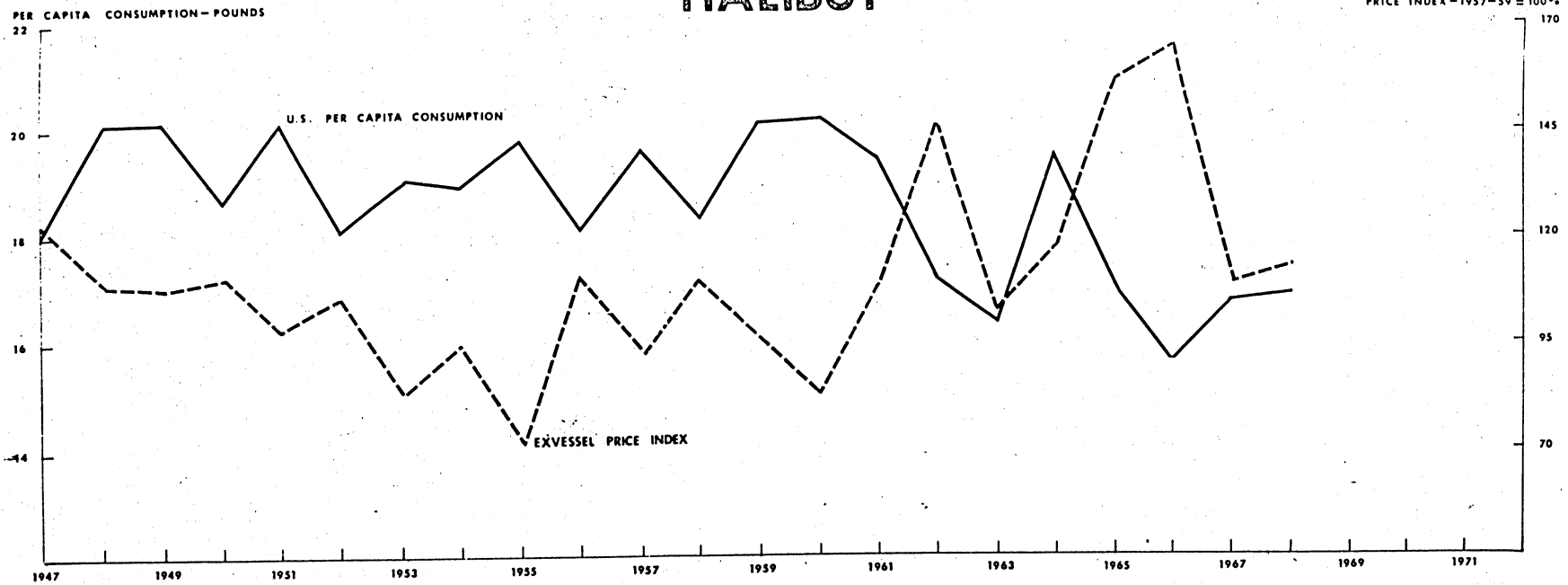


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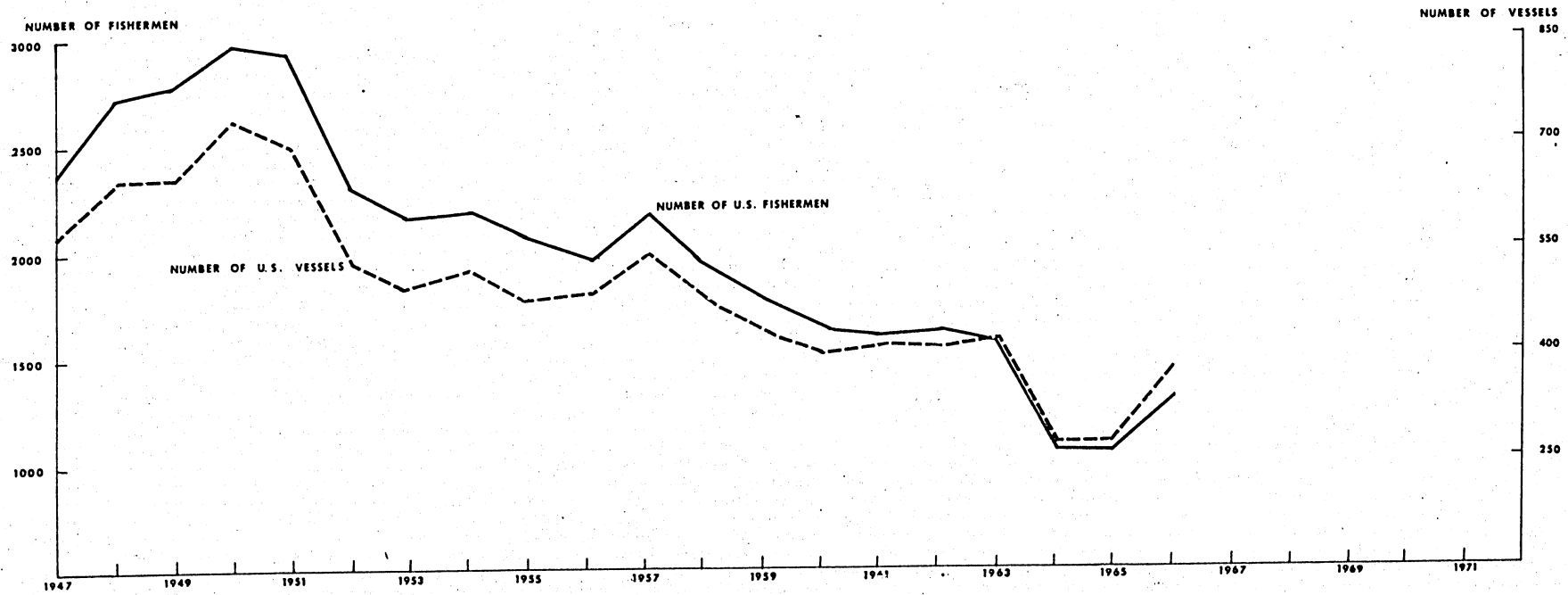
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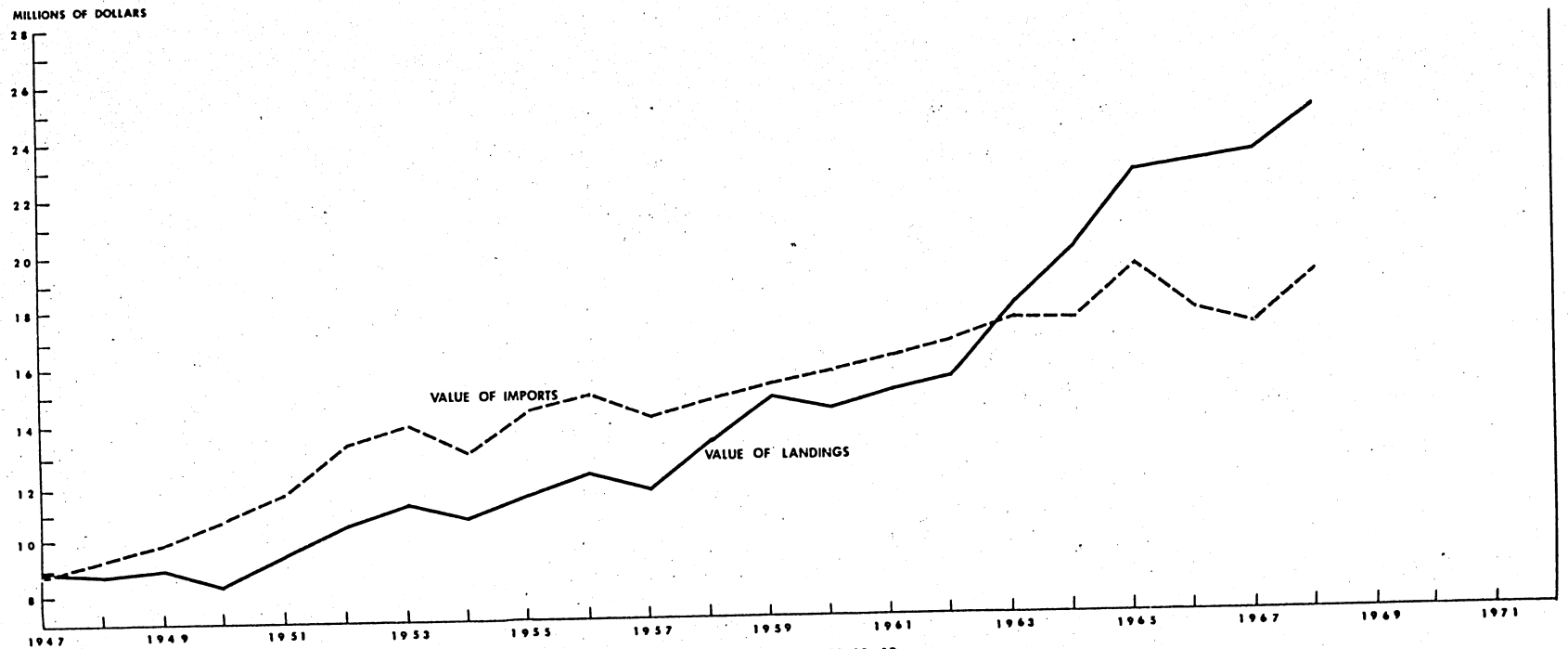
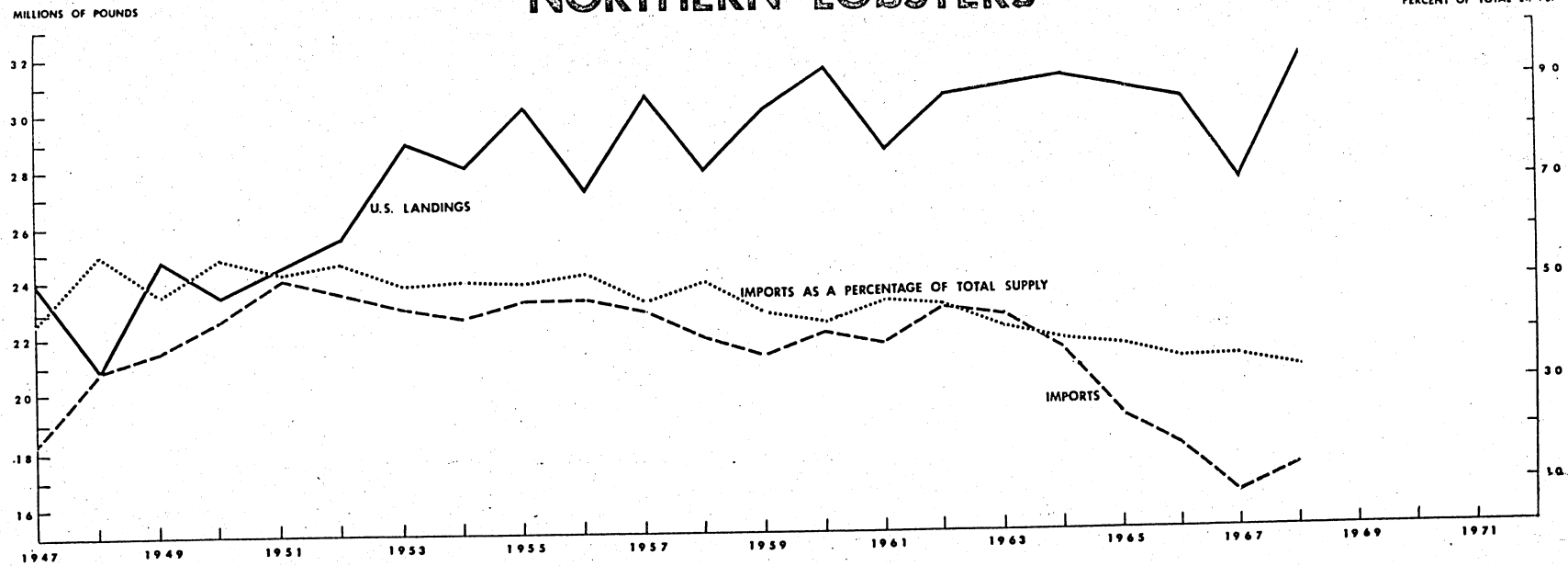
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NORTHERN LOBSTERS

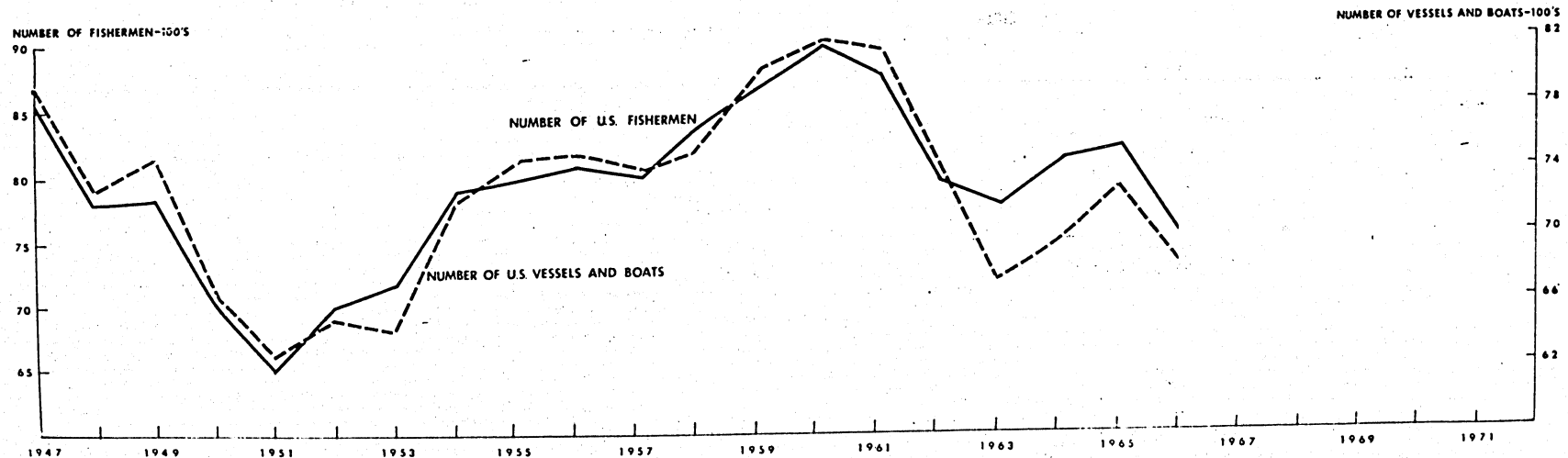
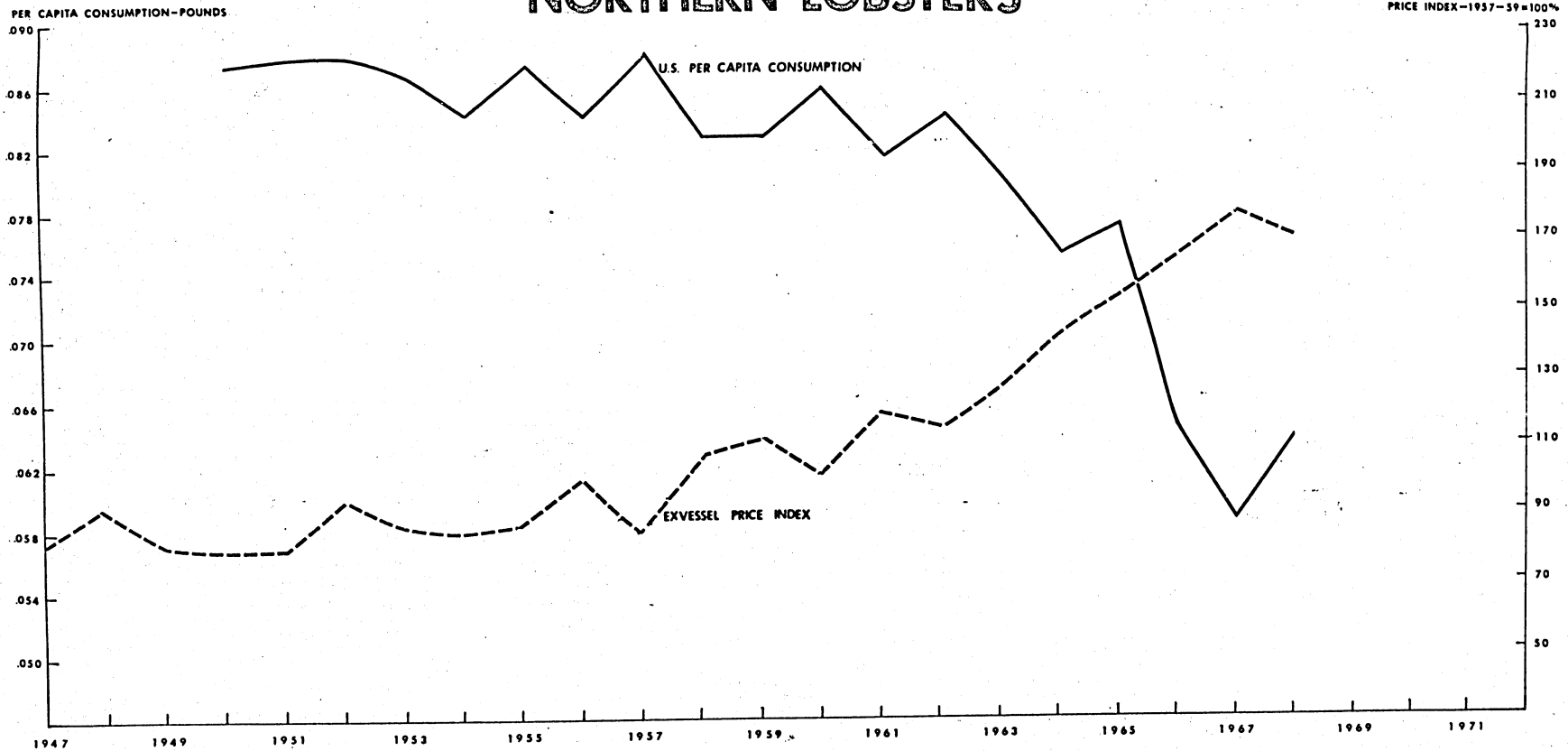


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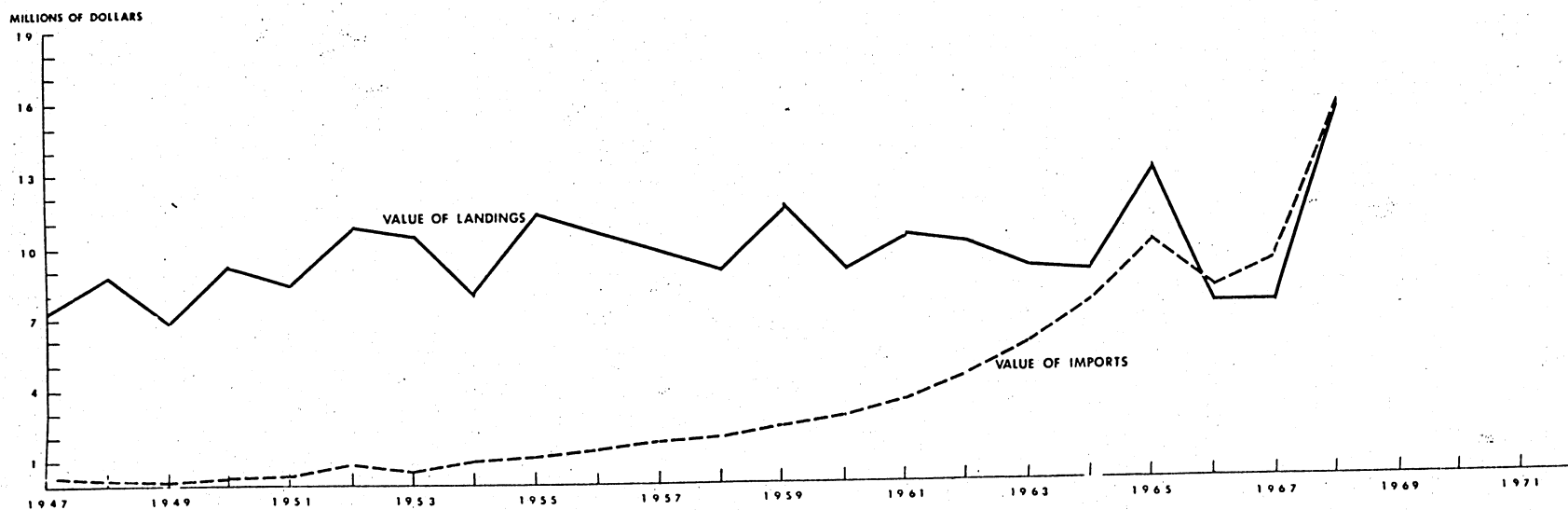
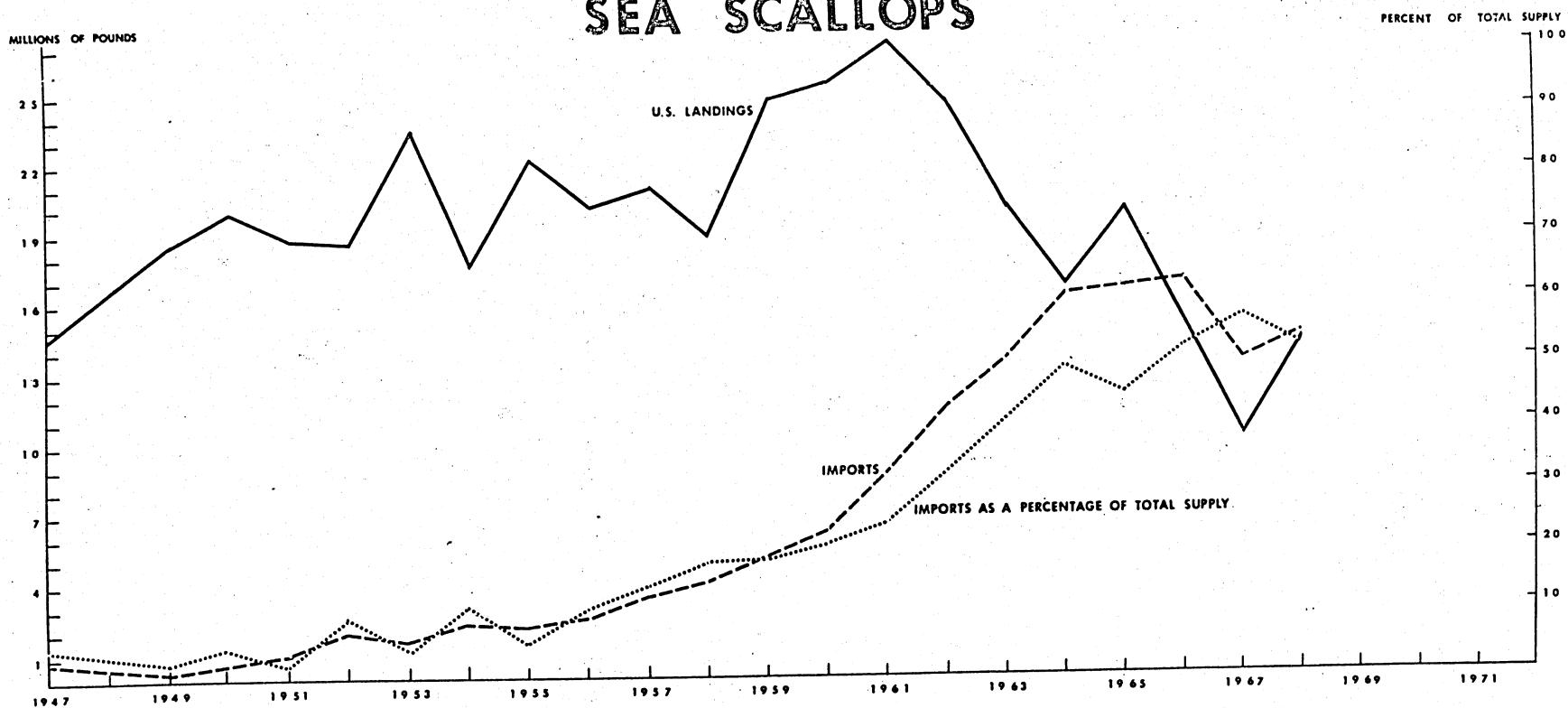
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NORTHERN LOBSTERS



SEA SCALLOPS



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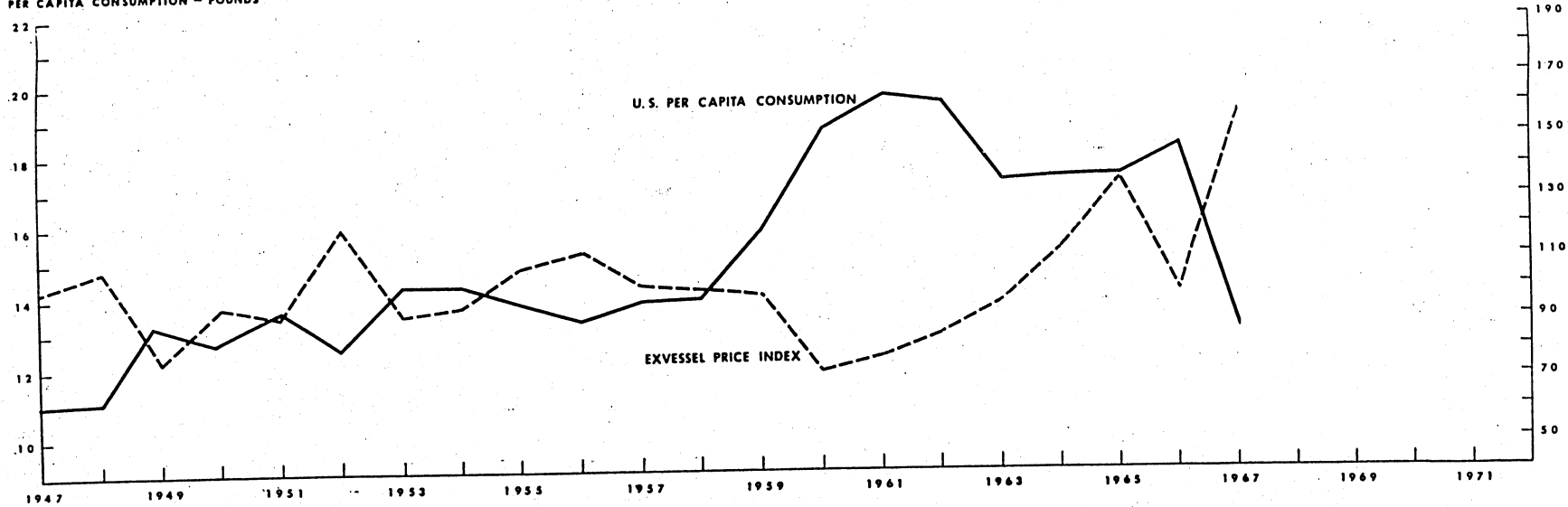
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SEA SCALLOPS

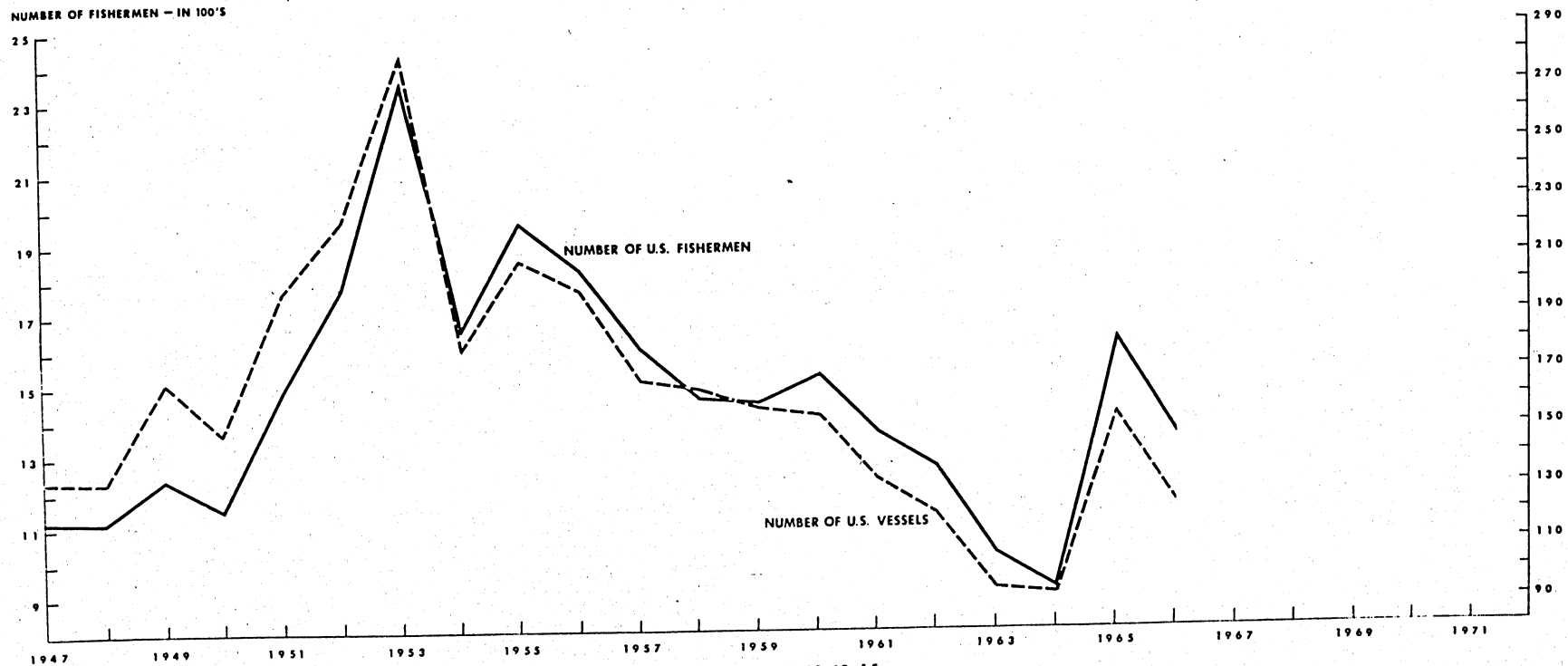
PER CAPITA CONSUMPTION - POUNDS

PRICE INDEX - 1957-59 = 100*



NUMBER OF FISHERMEN - IN 100'S

NUMBER OF VESSELS

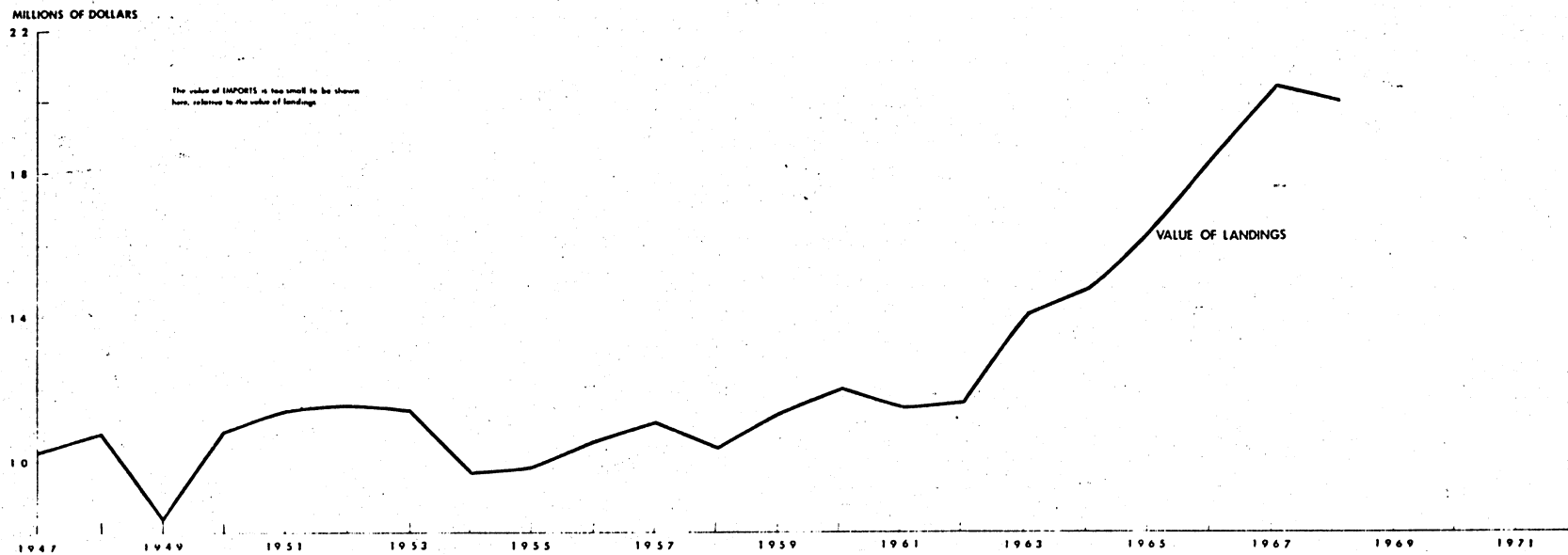
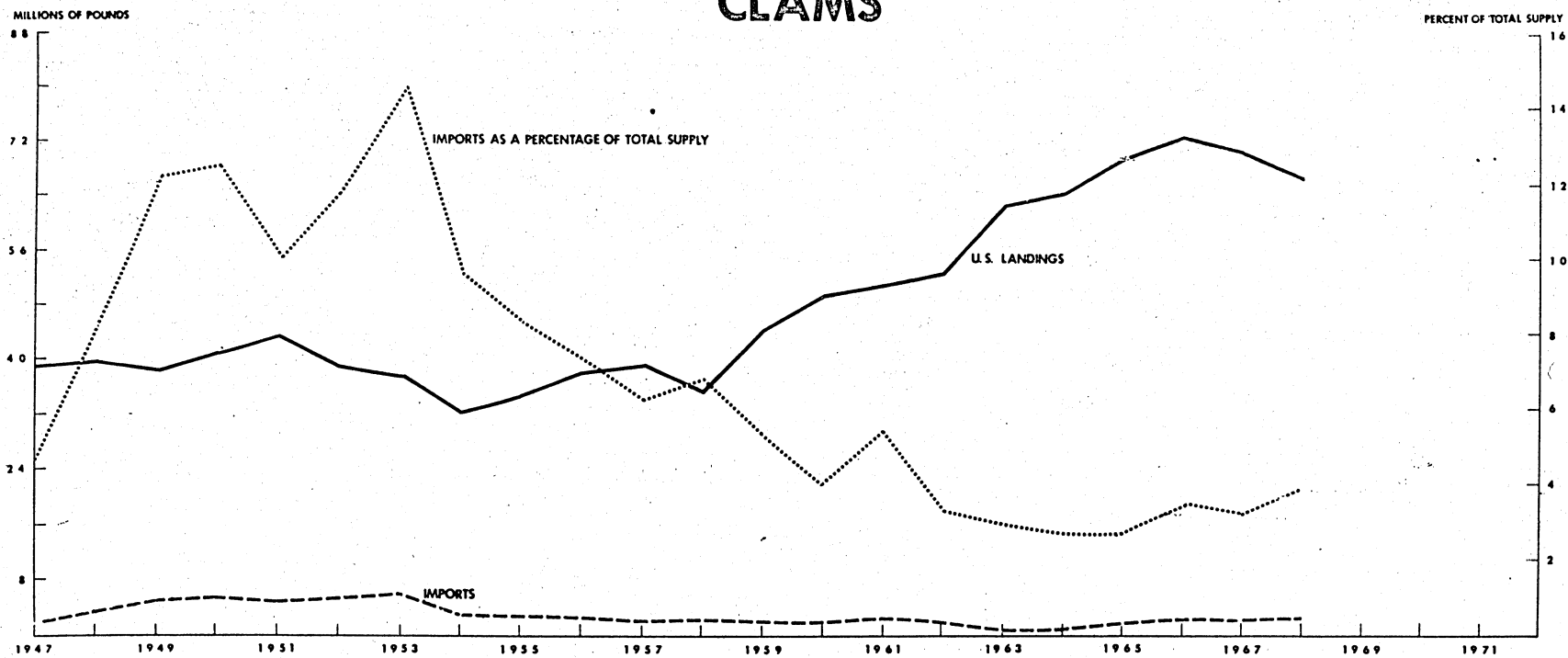


MASTER PLAN FISHERY 50 10 15

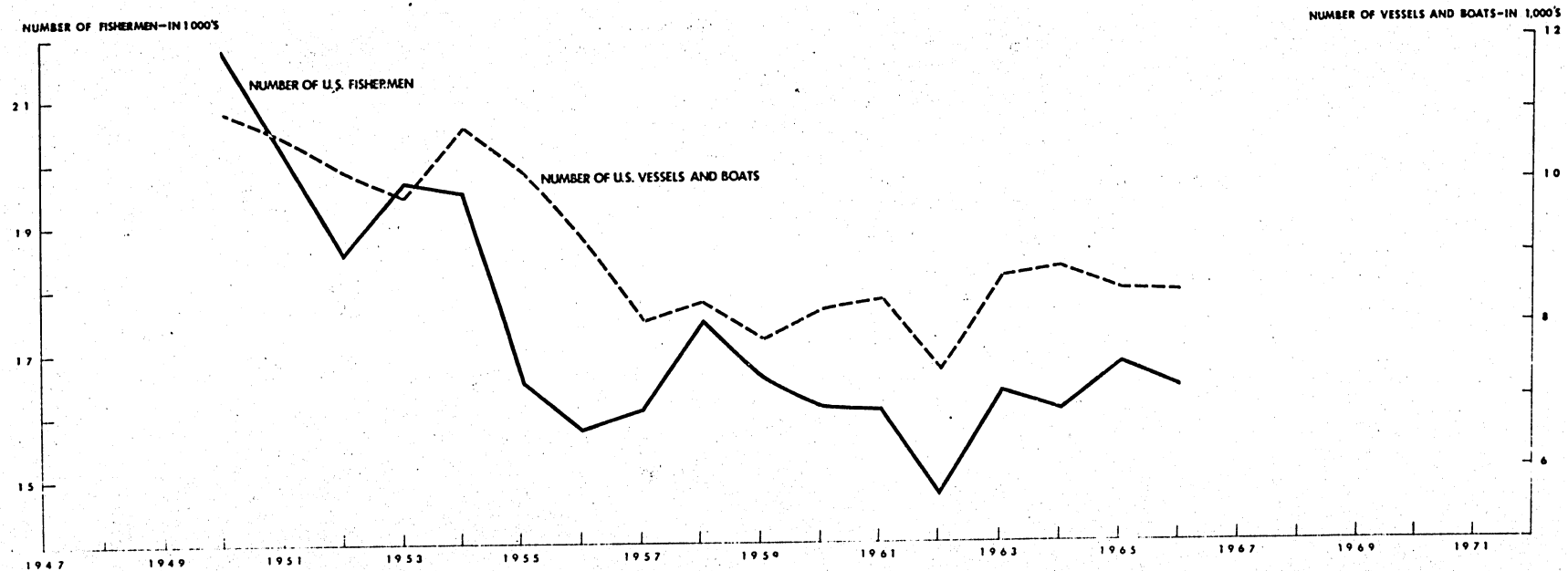
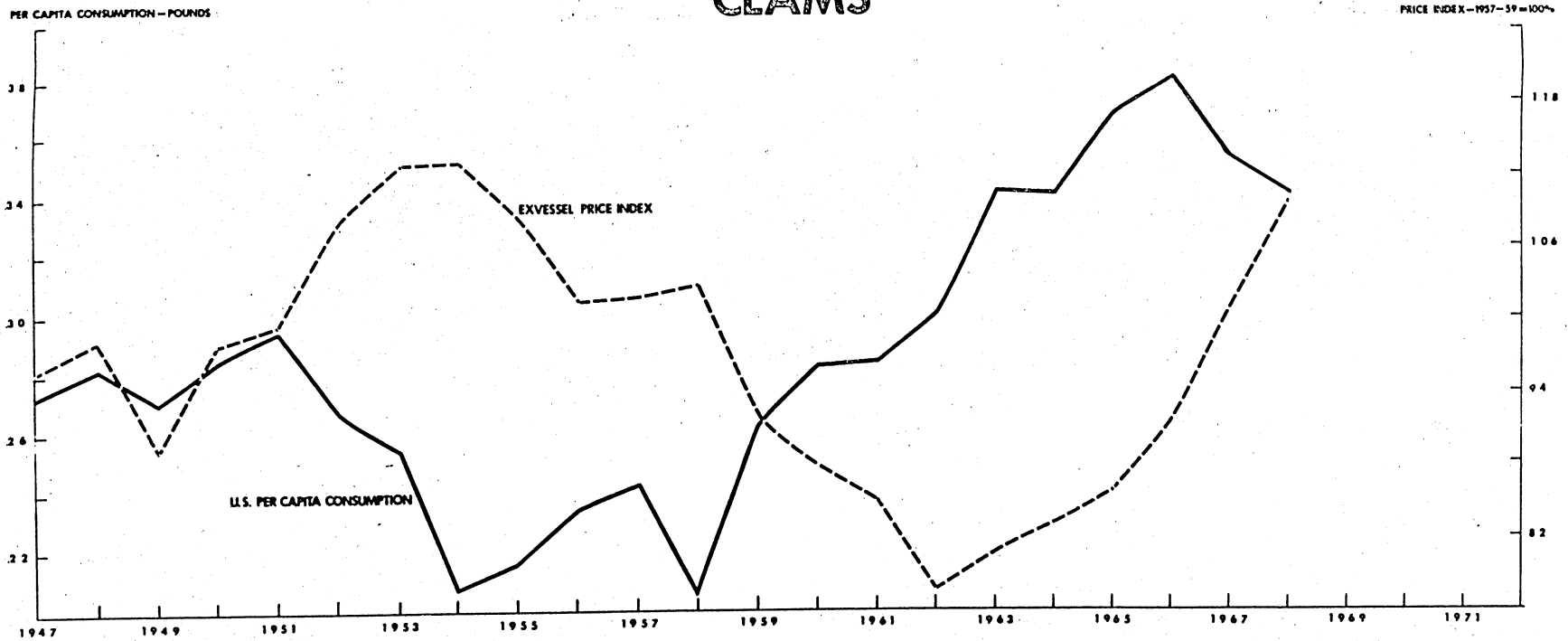
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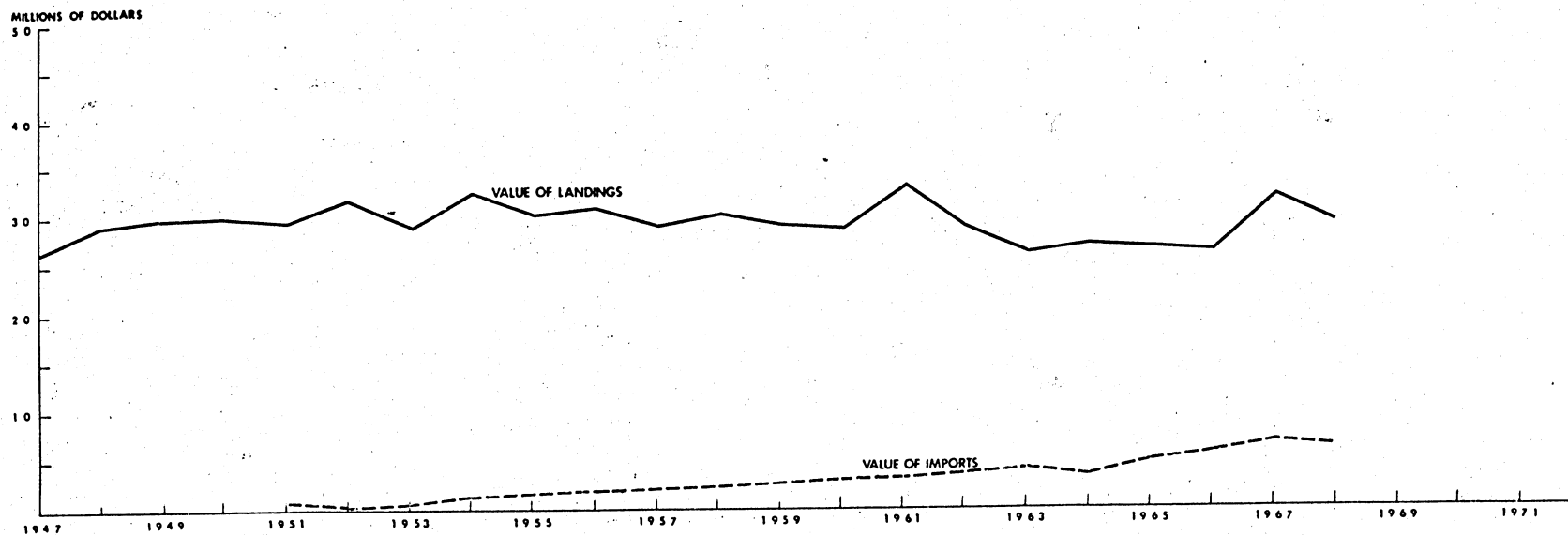
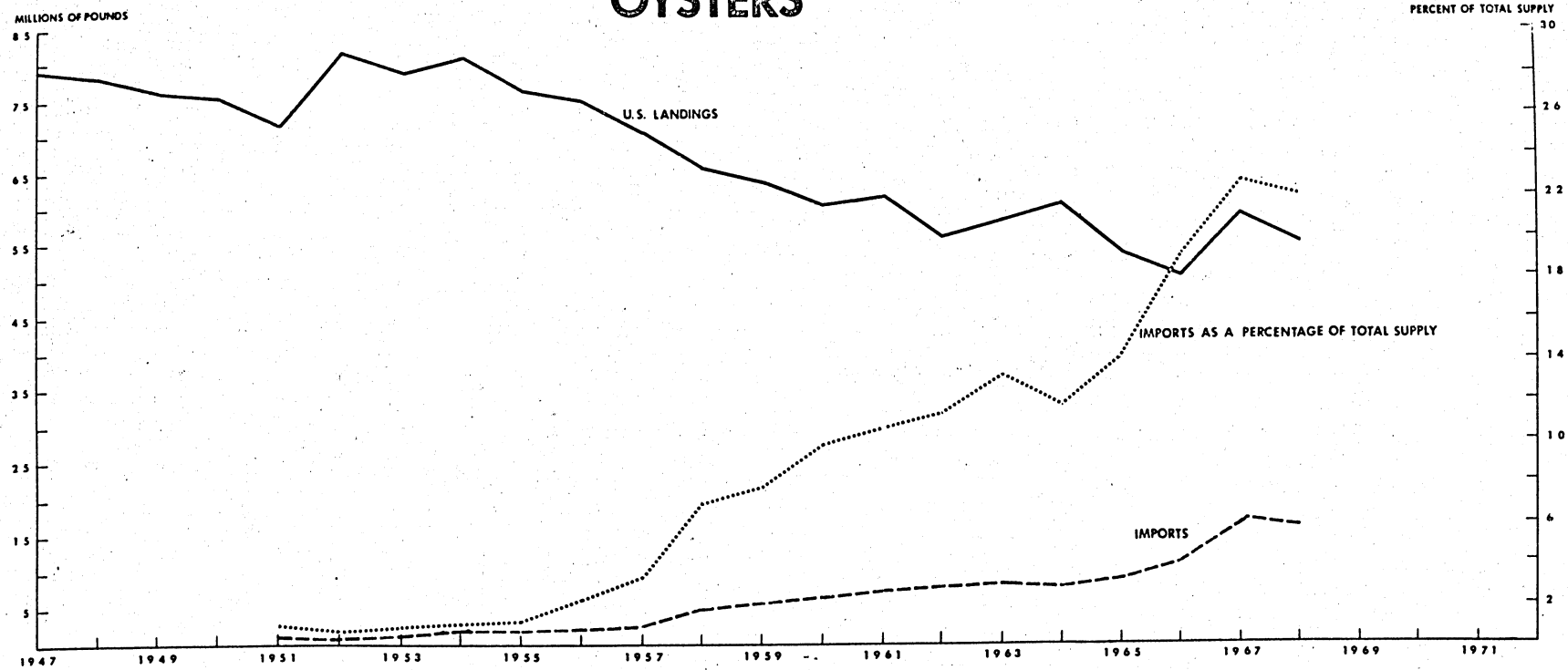
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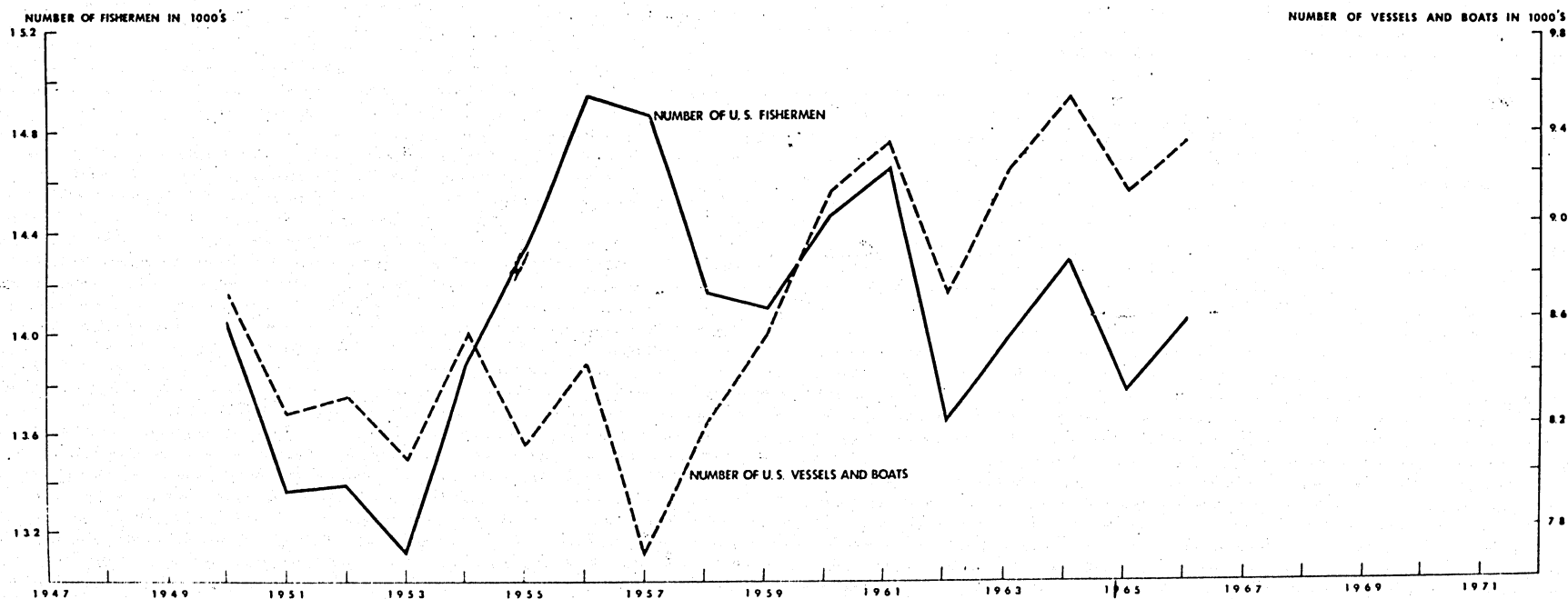
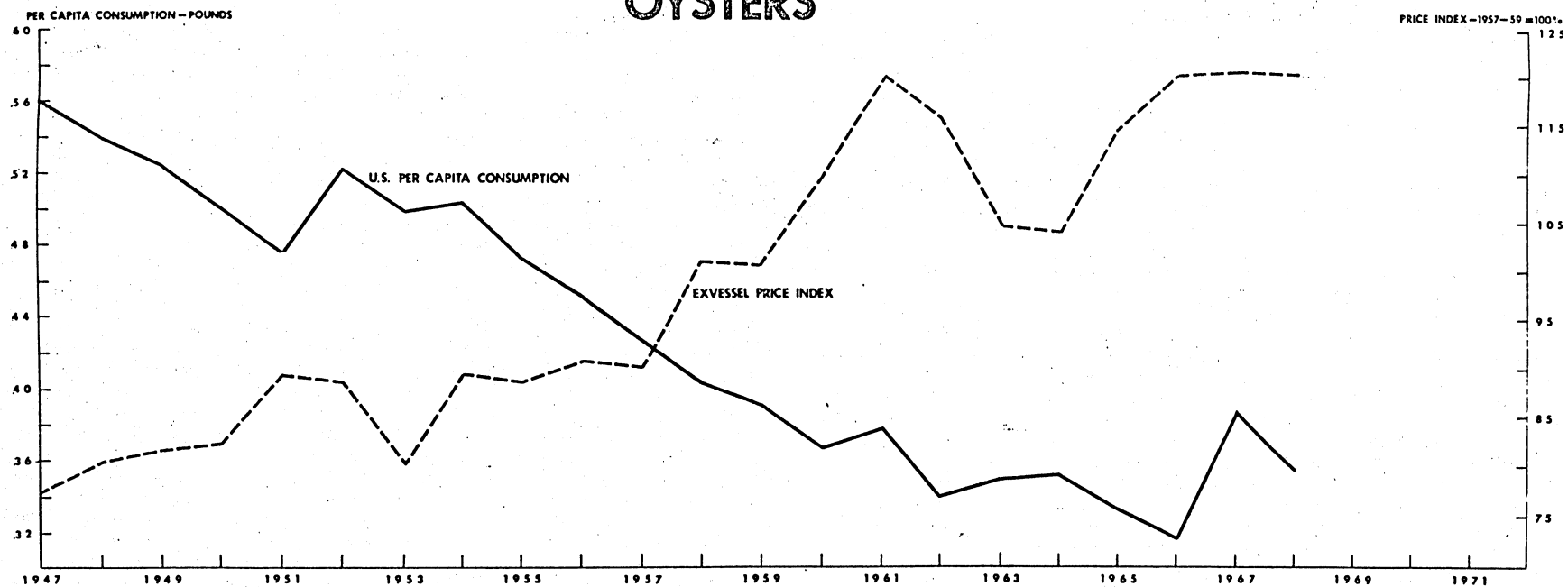
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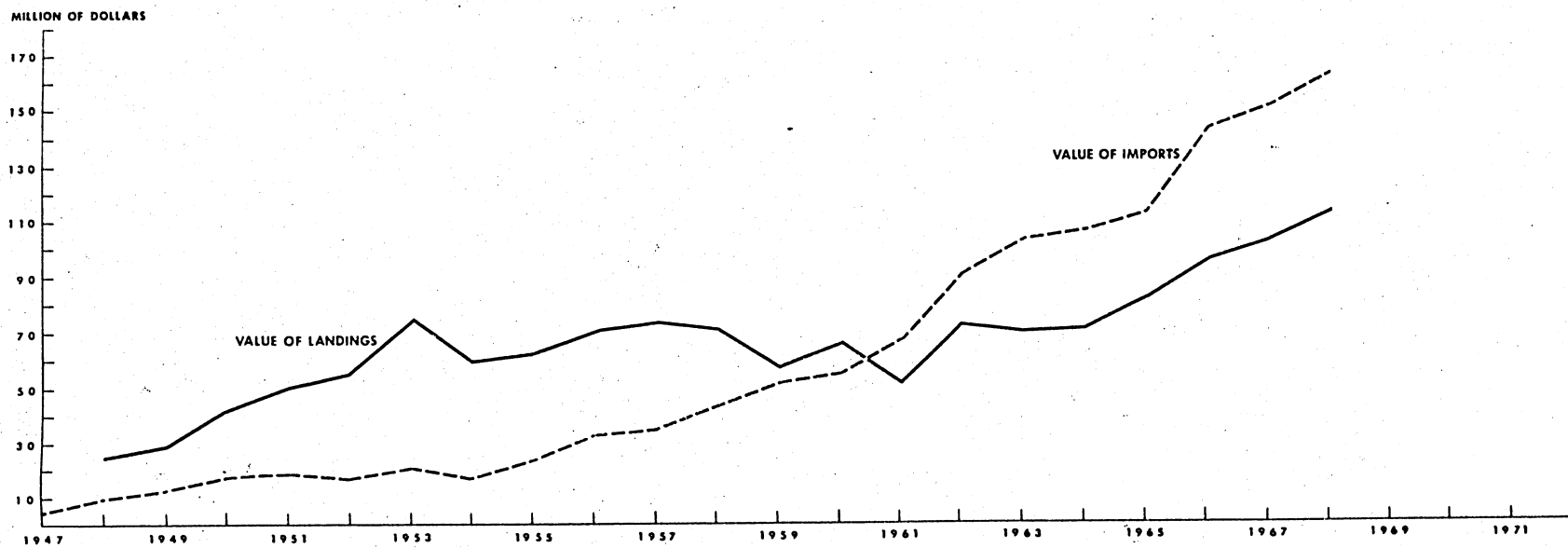
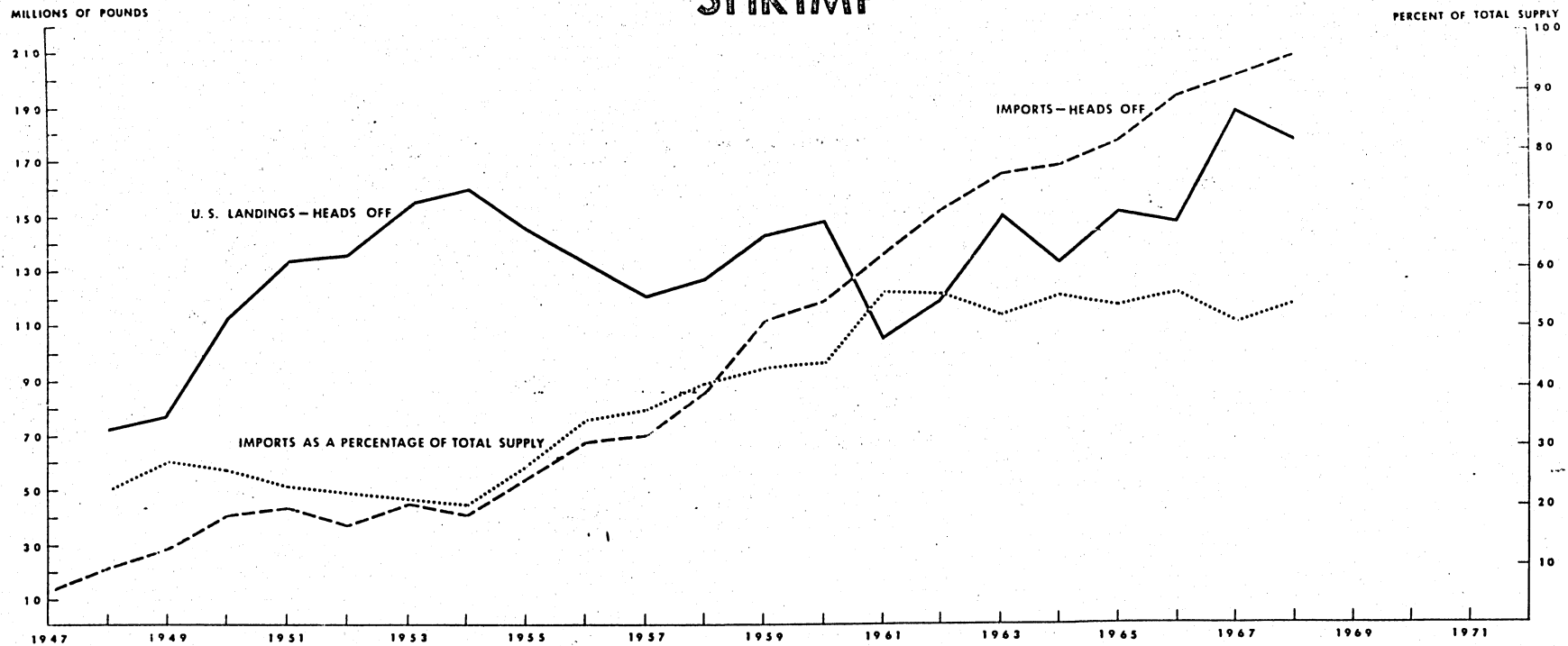
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OYSTERS



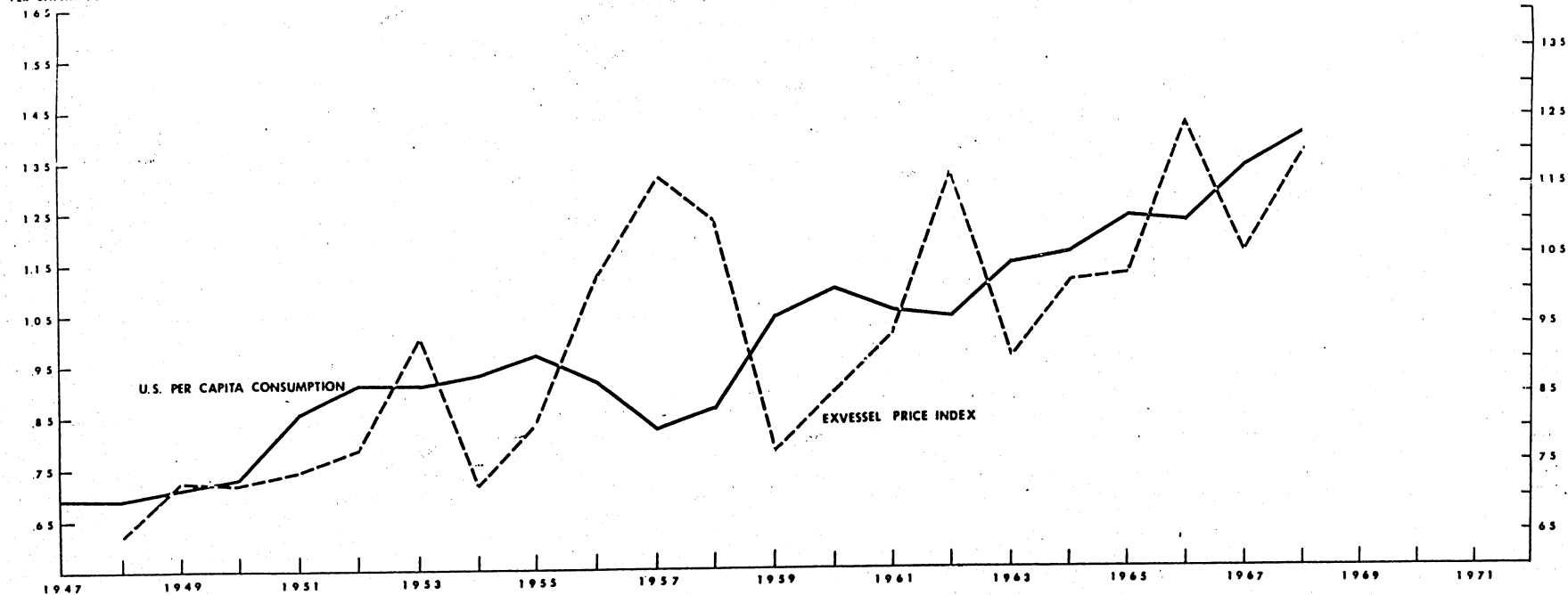
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SHRIMP

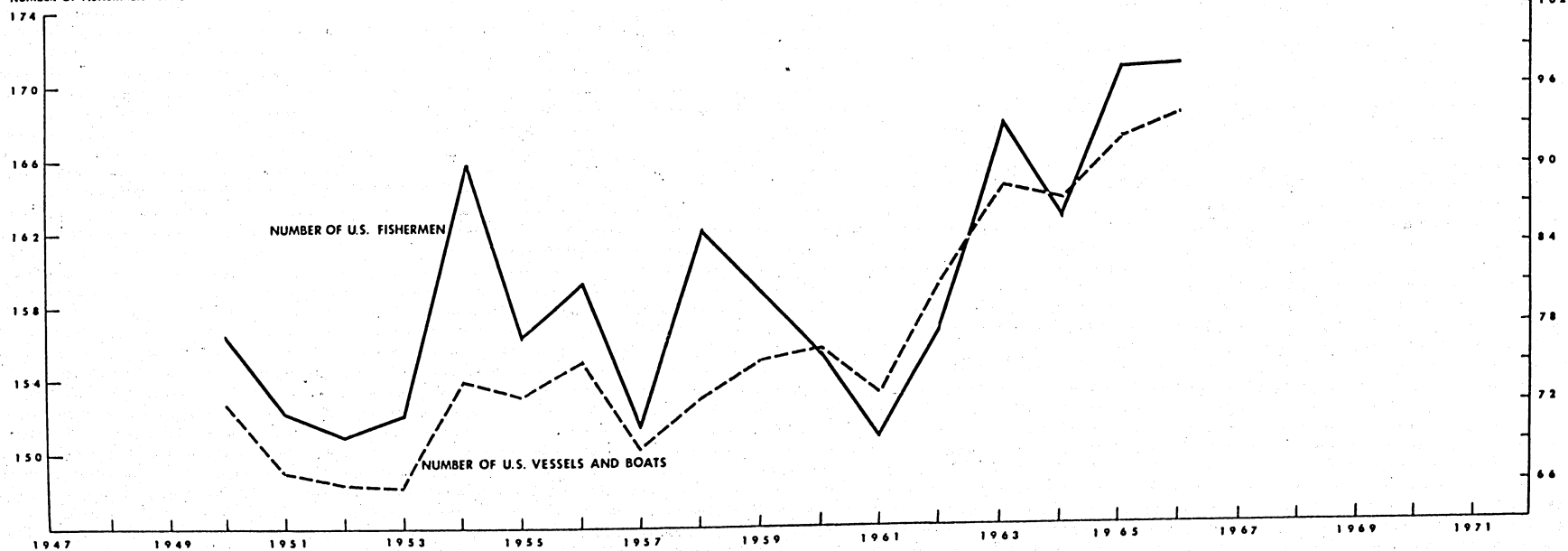
PER CAPITA CONSUMPTION—POUNDS

PRICE INDEX — 1957-59 = 100%



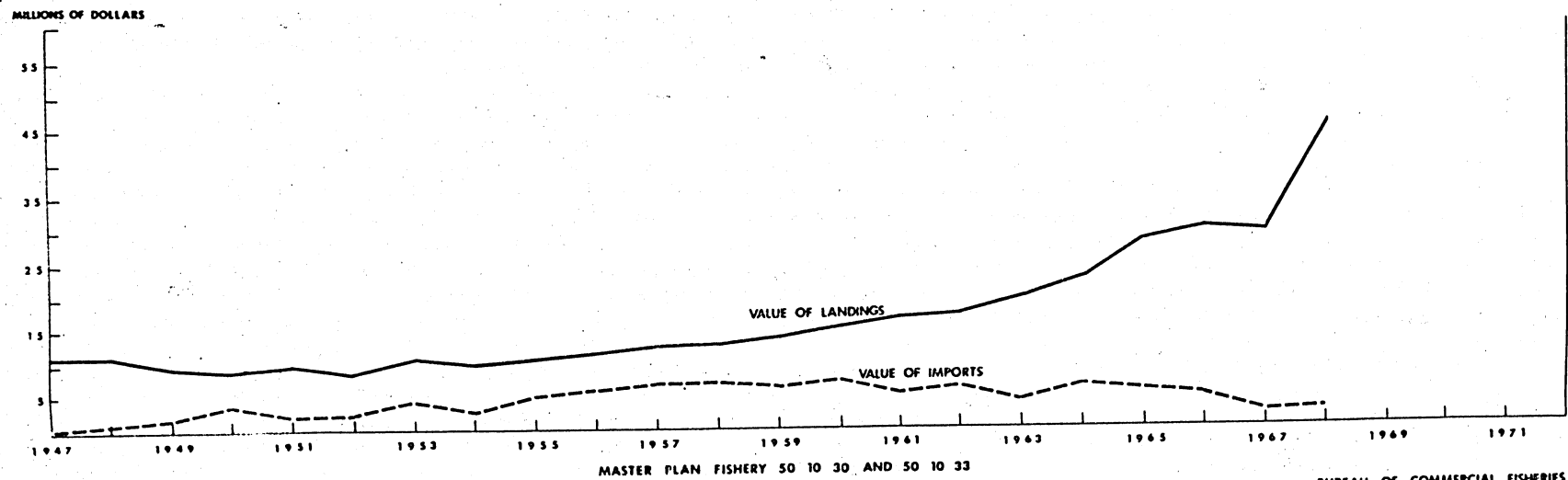
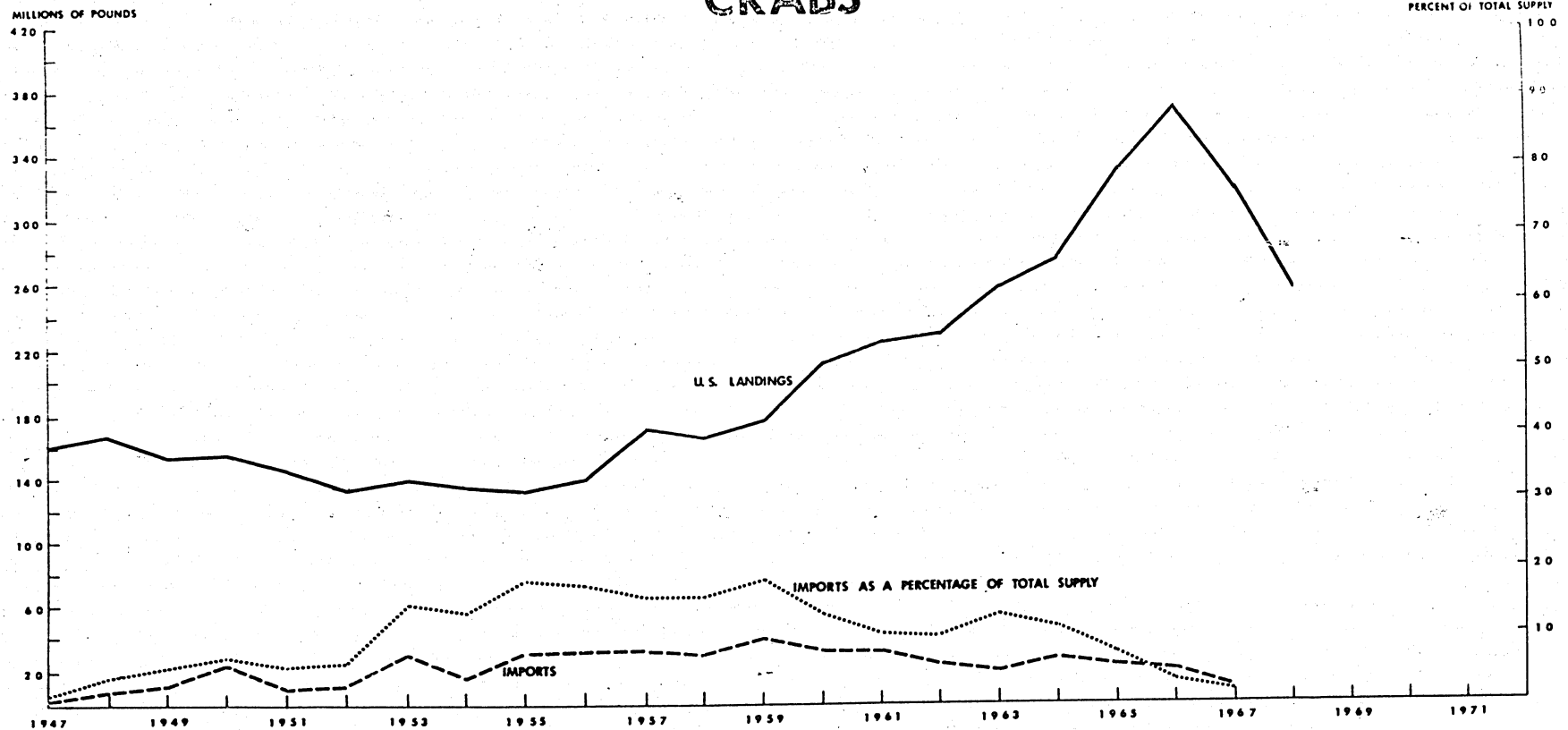
NUMBER OF FISHERMEN—100'S

NUMBER OF VESSELS AND BOATS—100'S



MASTER PLAN FISHERY 50 10 24 AND 50 10 27

CRABS



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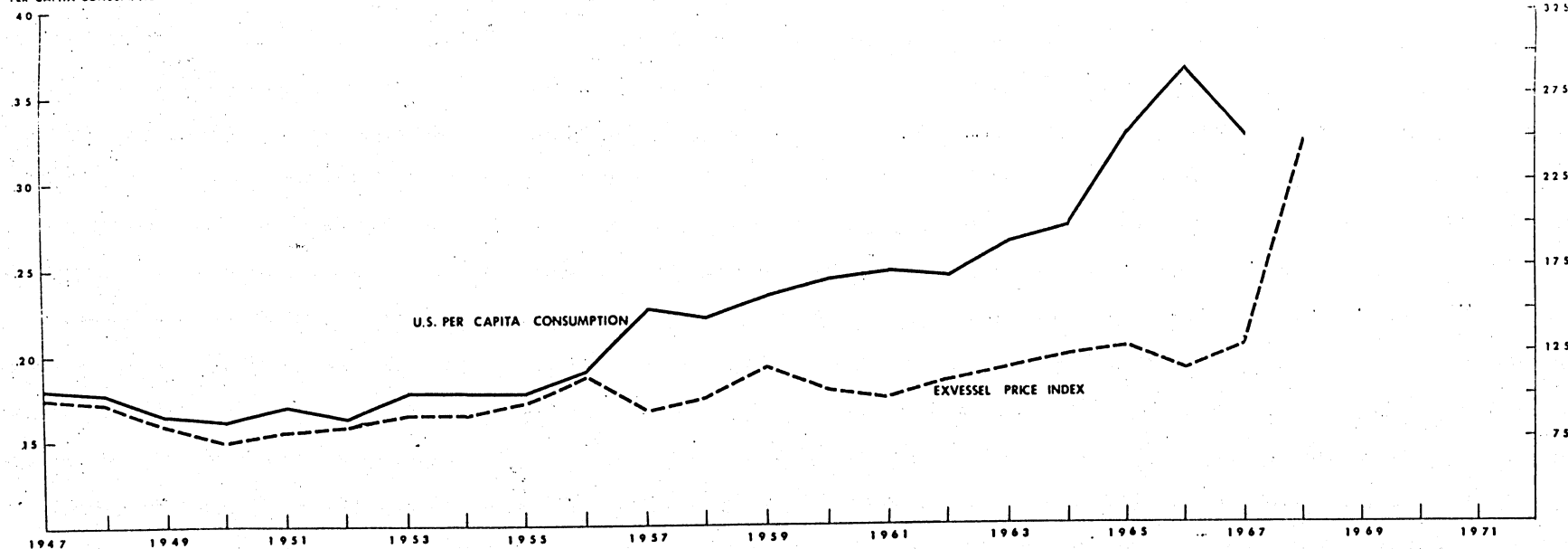
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MASTER PLAN FISHERY 50 10 30 AND 50 10 33

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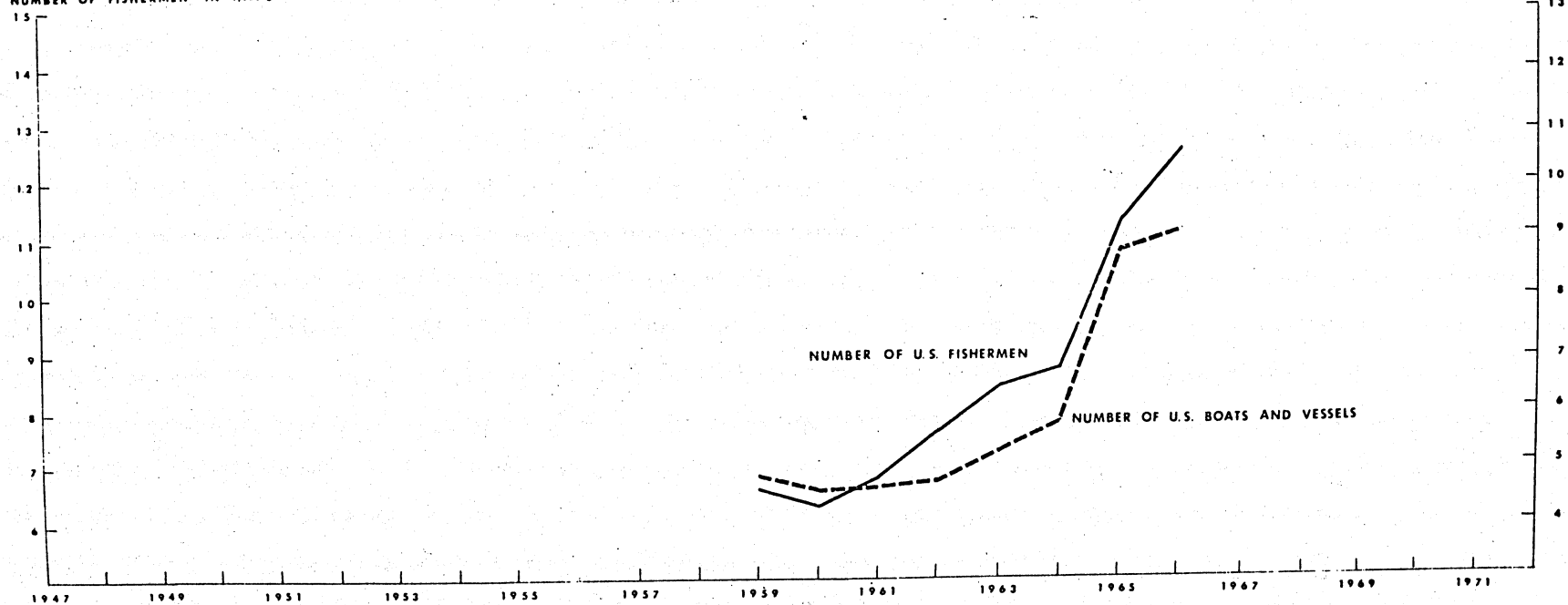
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PRICE INDEX - 1957=100



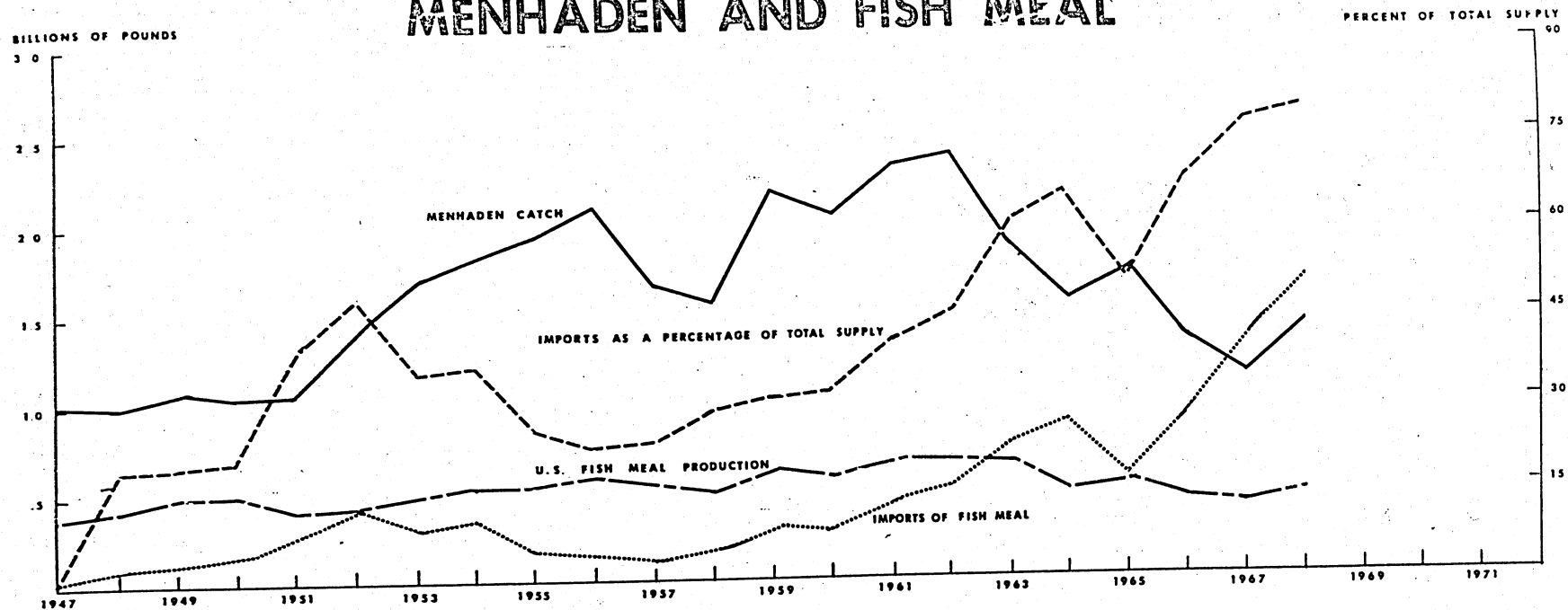
NUMBER OF FISHERMEN - IN 1,000'S

NUMBER OF BOATS AND VESSELS - IN 1,000'S

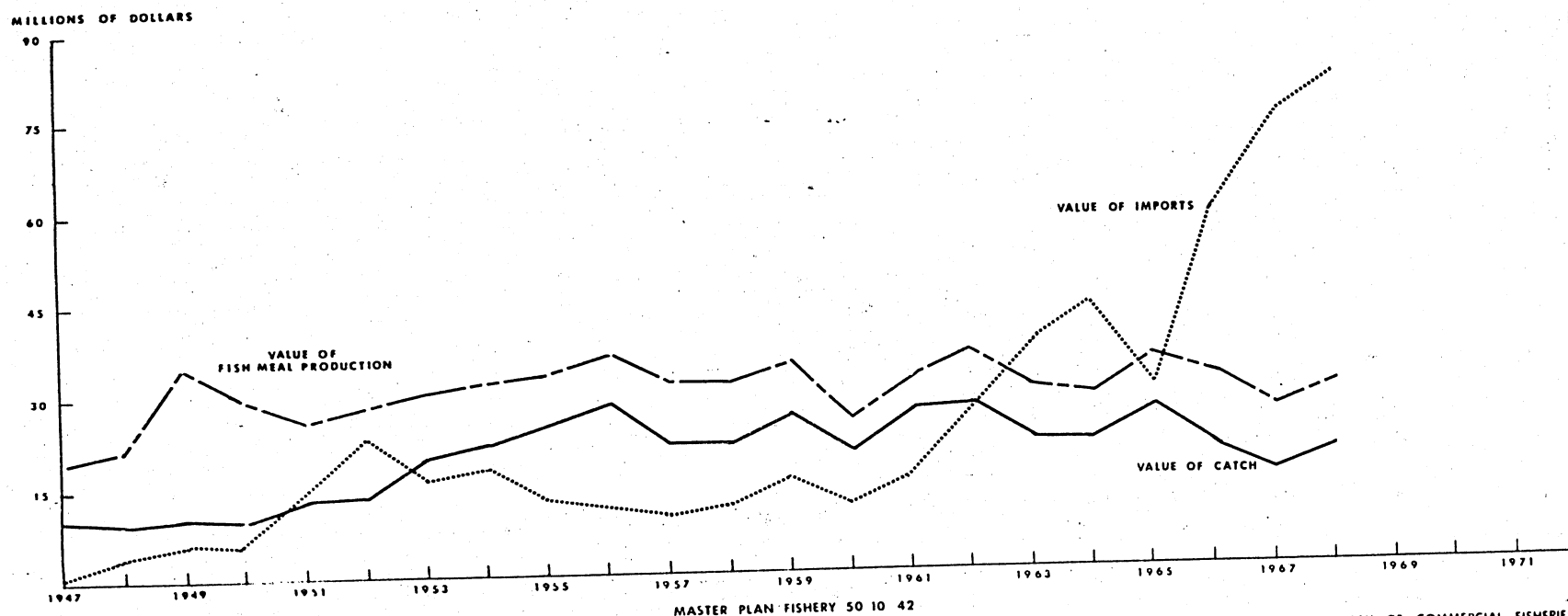


MASTER PLAN FISHERY 50 10 30 AND 50 10 33

MENHADEN AND FISH MEAL



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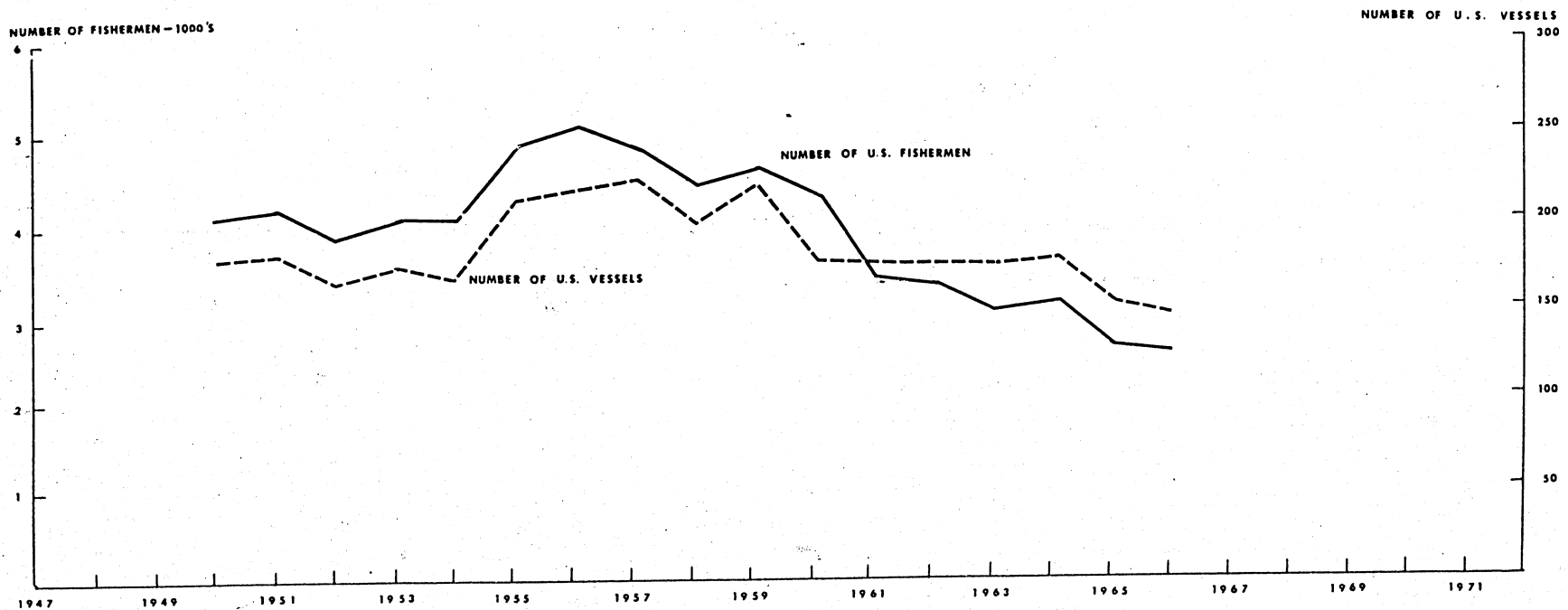
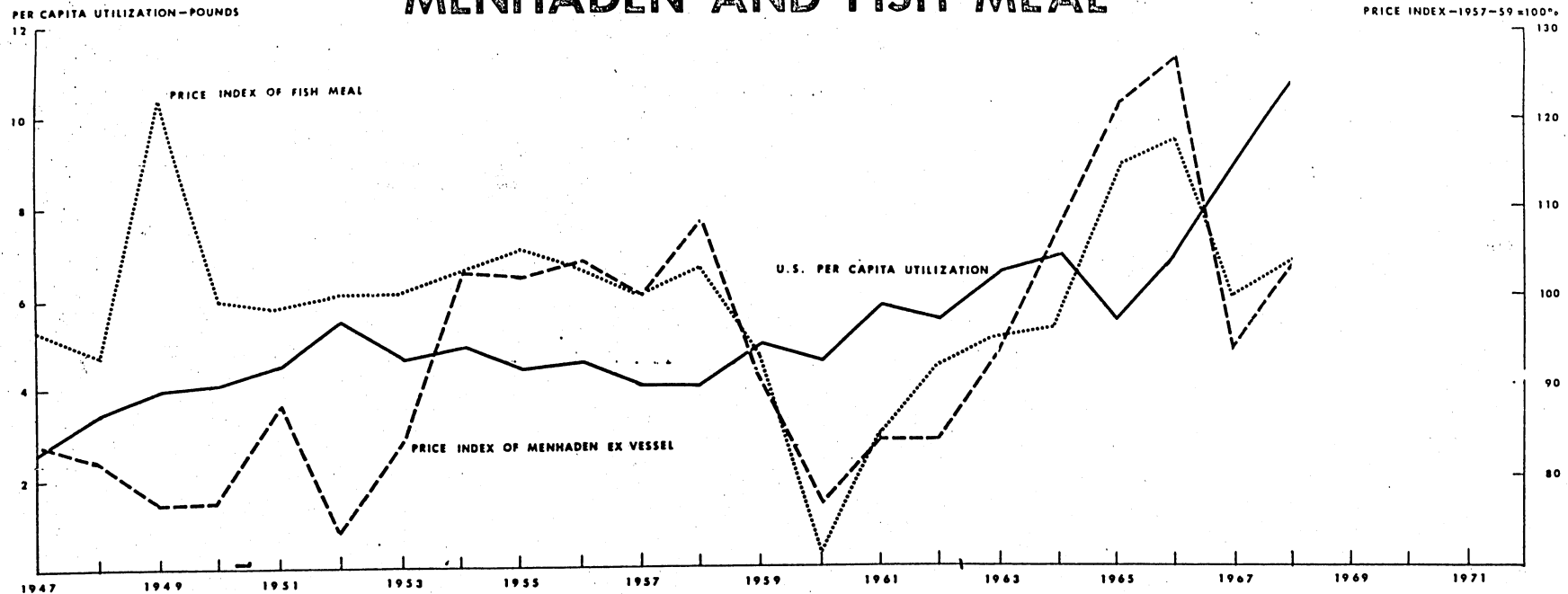


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MASTER PLAN FISHERY 50 10 42

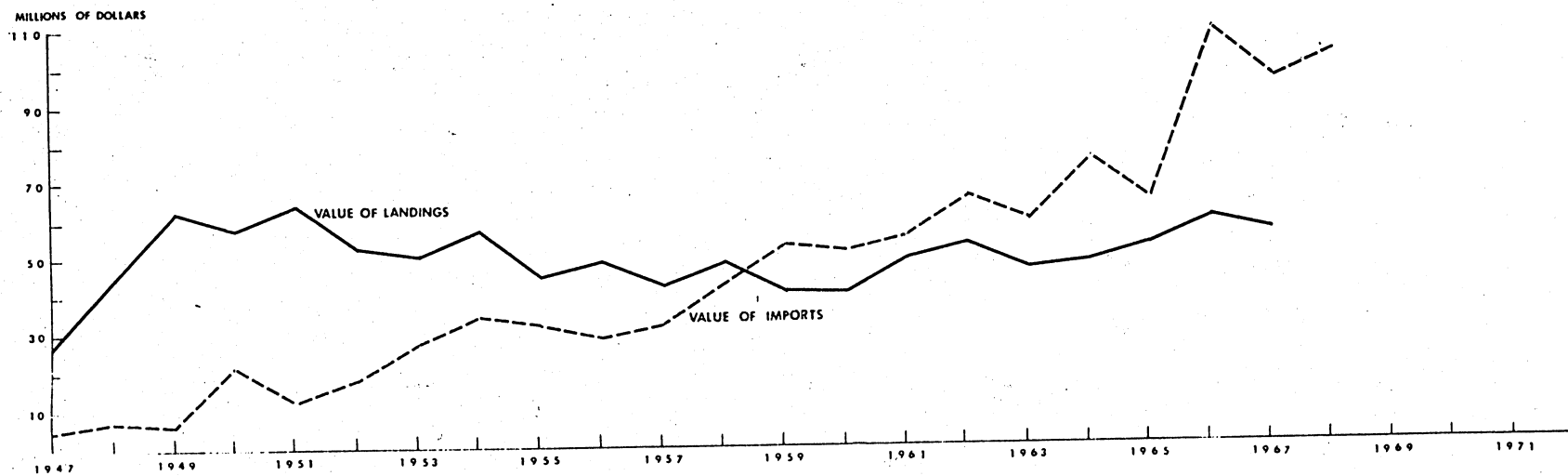
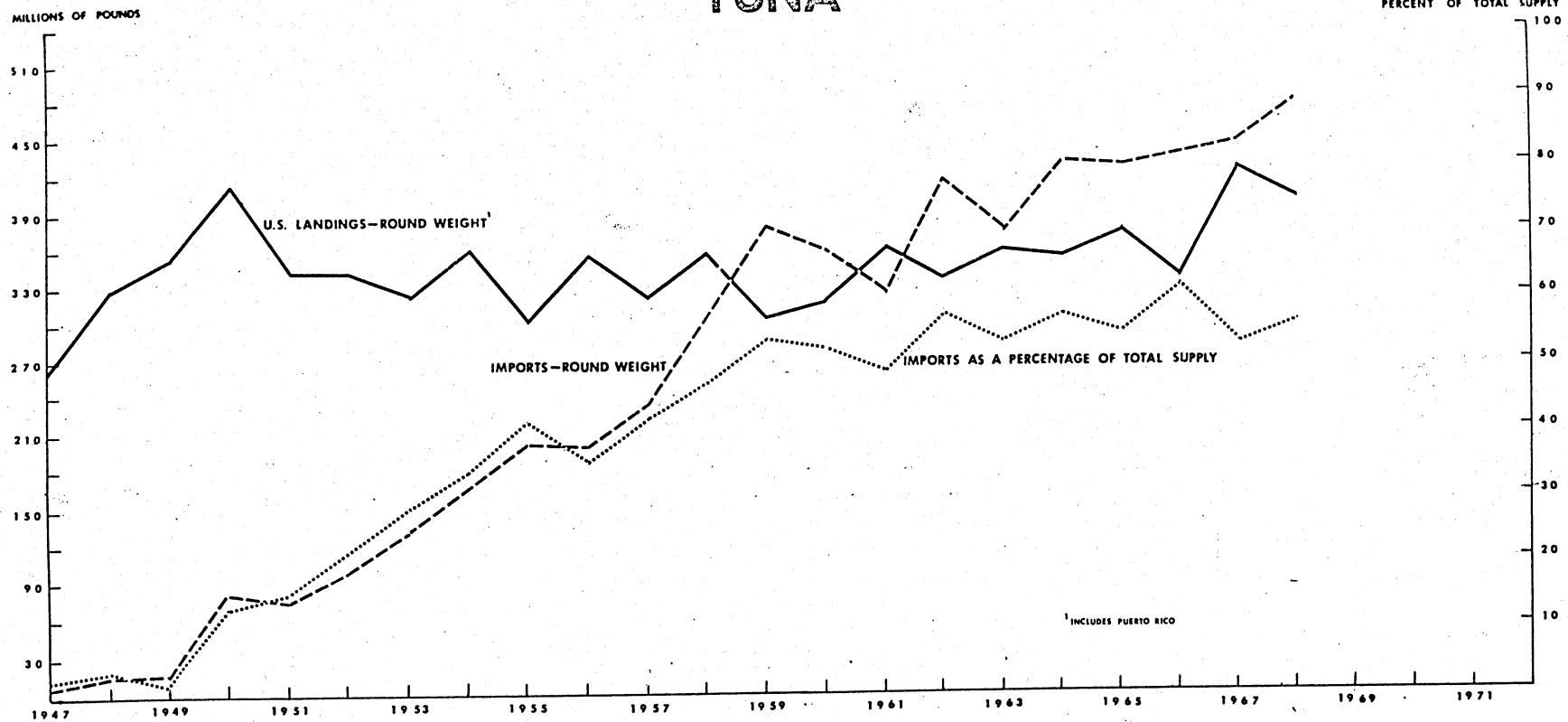
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MENHADEN AND FISH MEAL



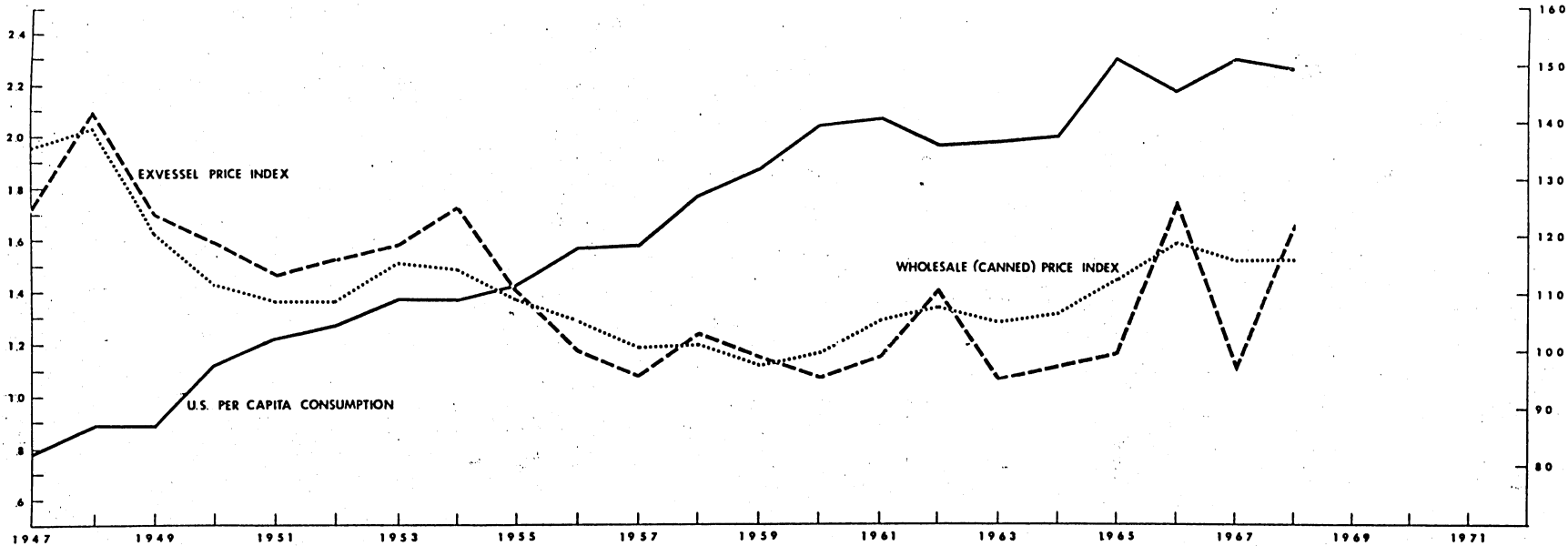
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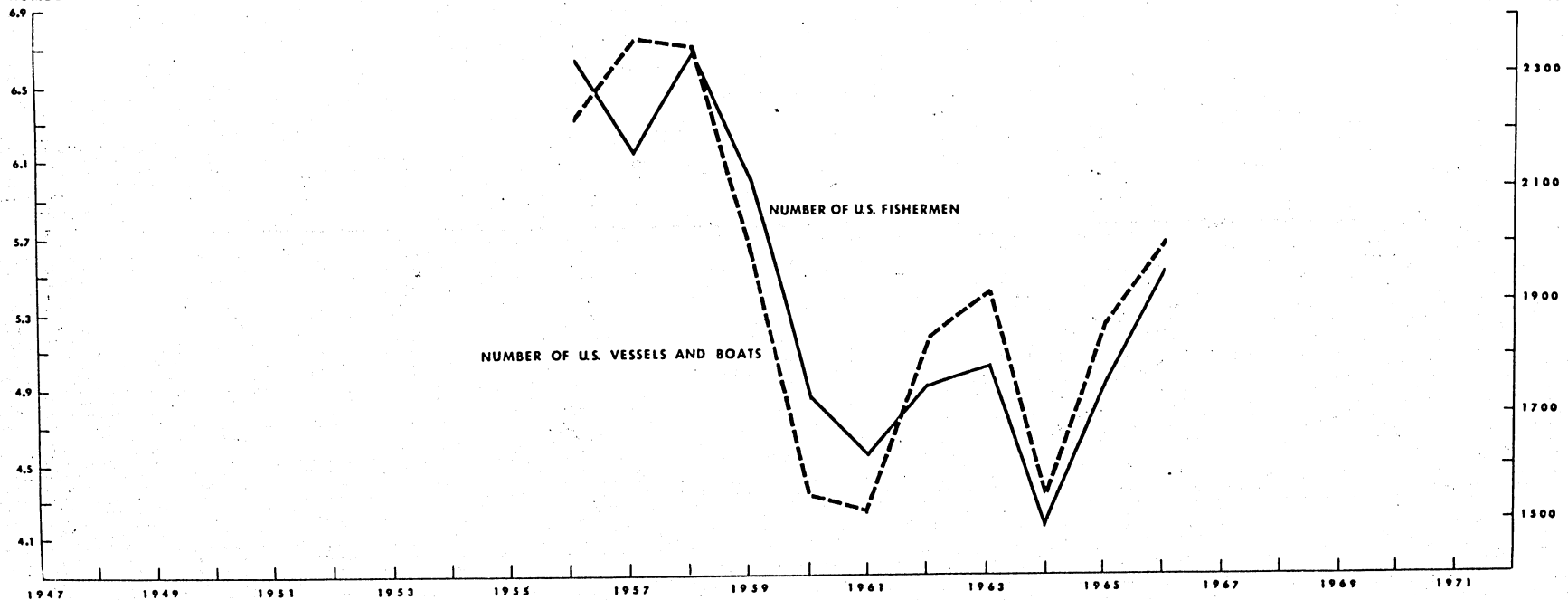


TUNA

PER CAPITA CONSUMPTION—POUNDS

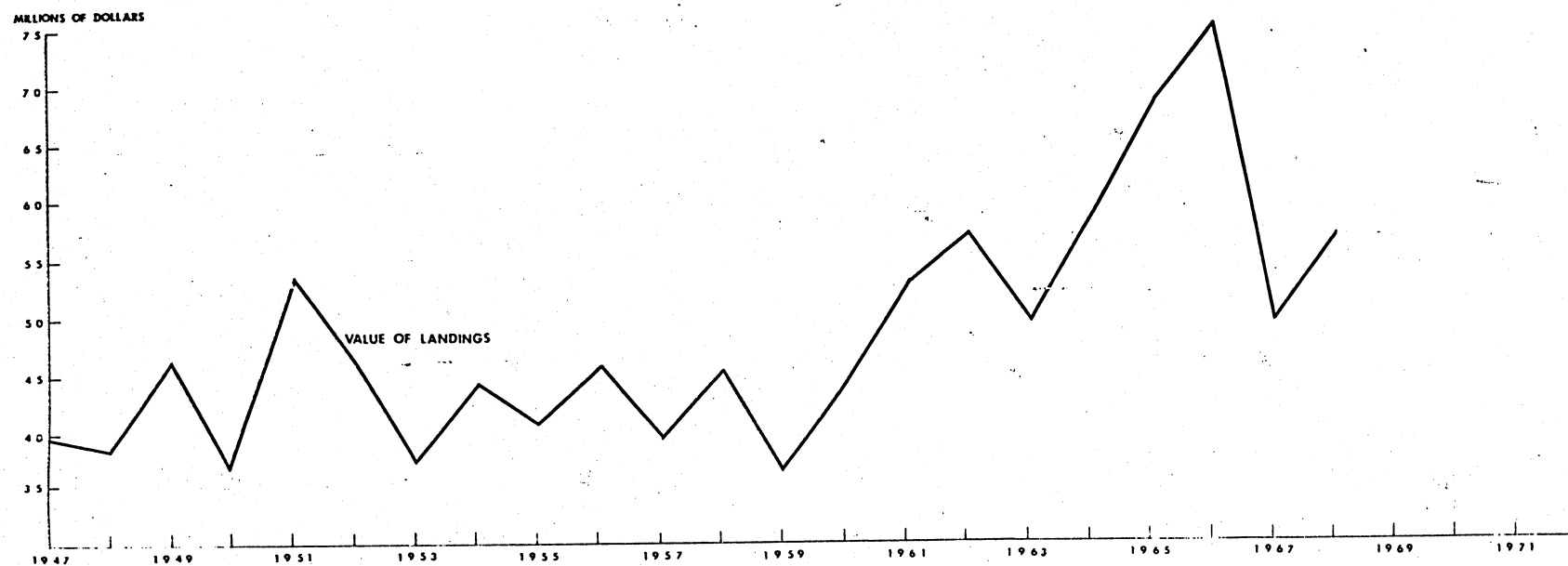
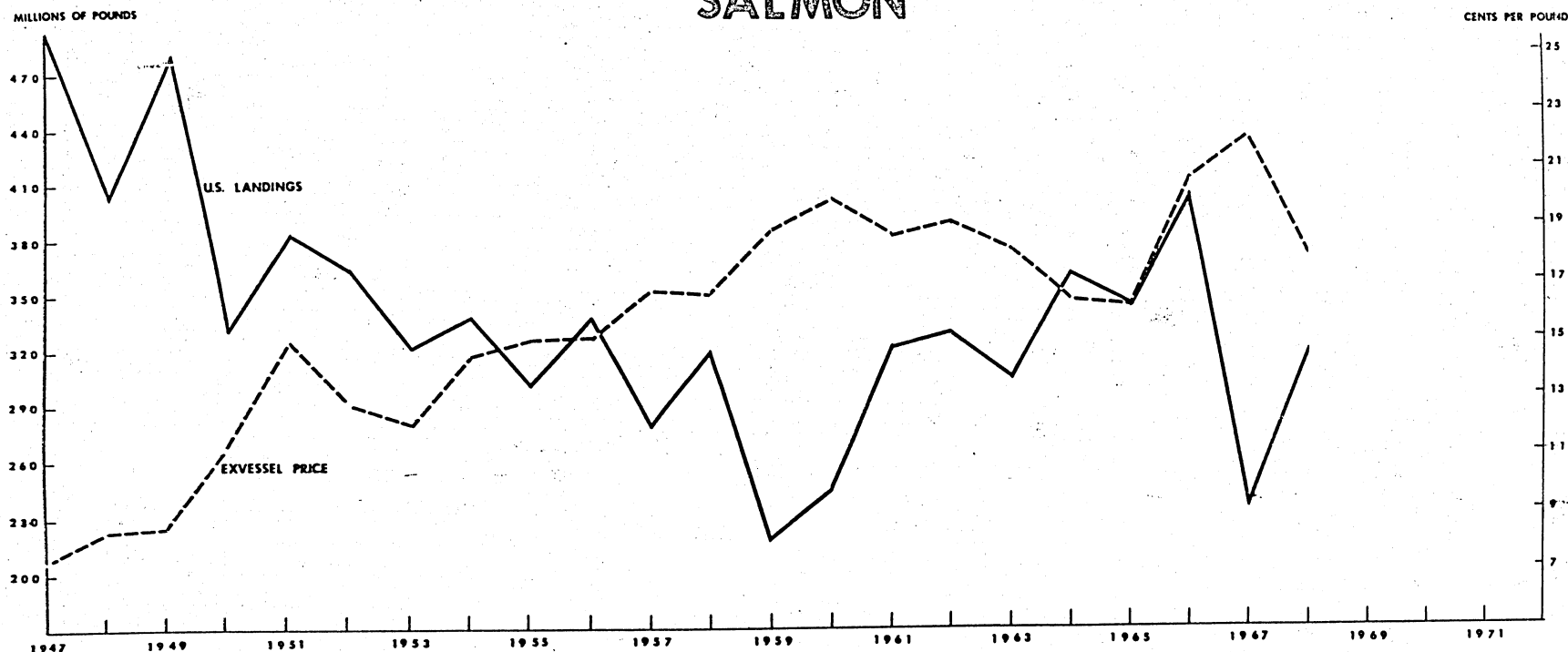


NUMBER OF FISHERMEN—IN 1000'S



MASTER PLAN FISHERY 50 10 45

SALMON

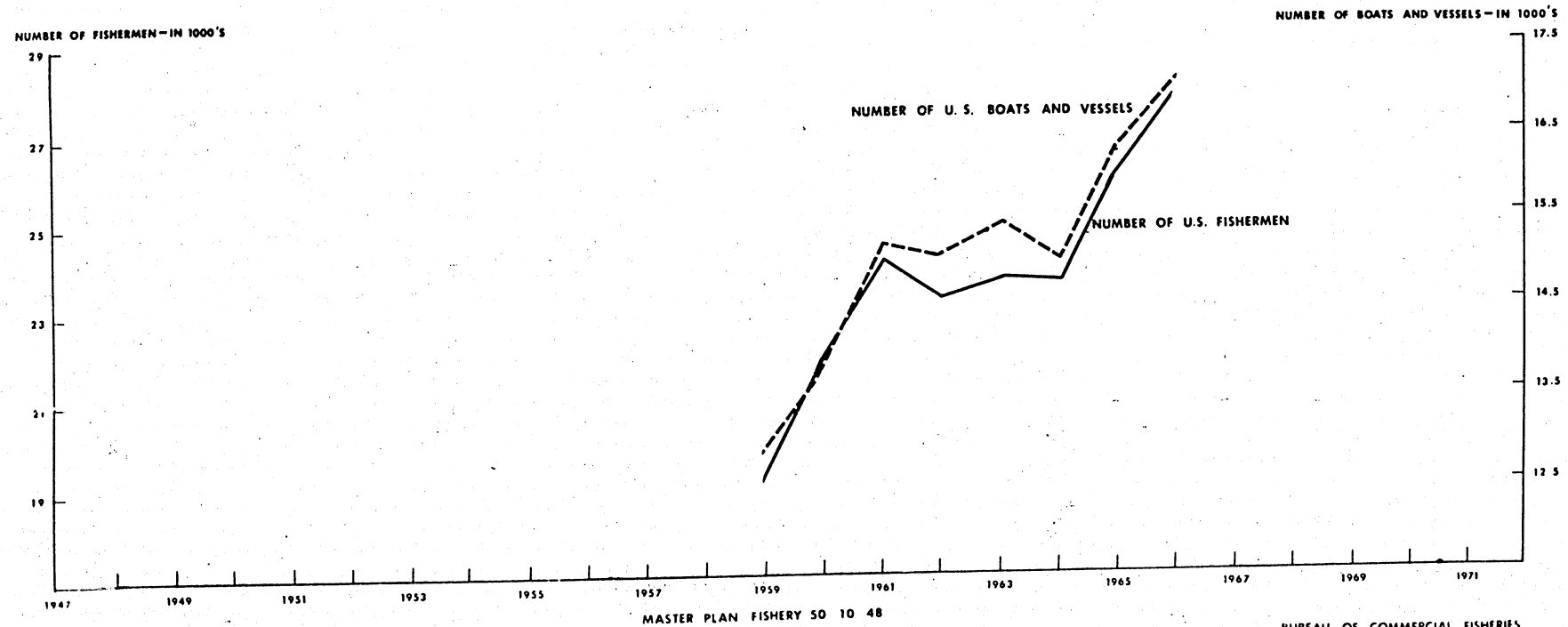
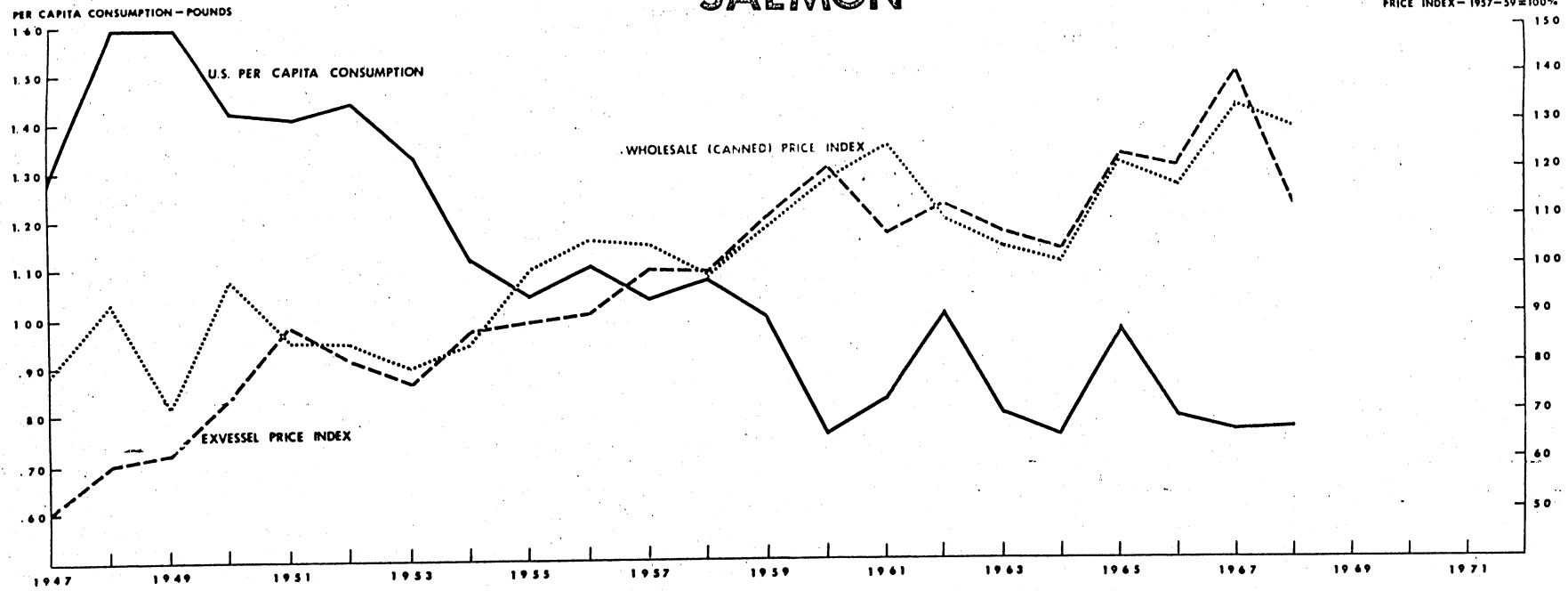


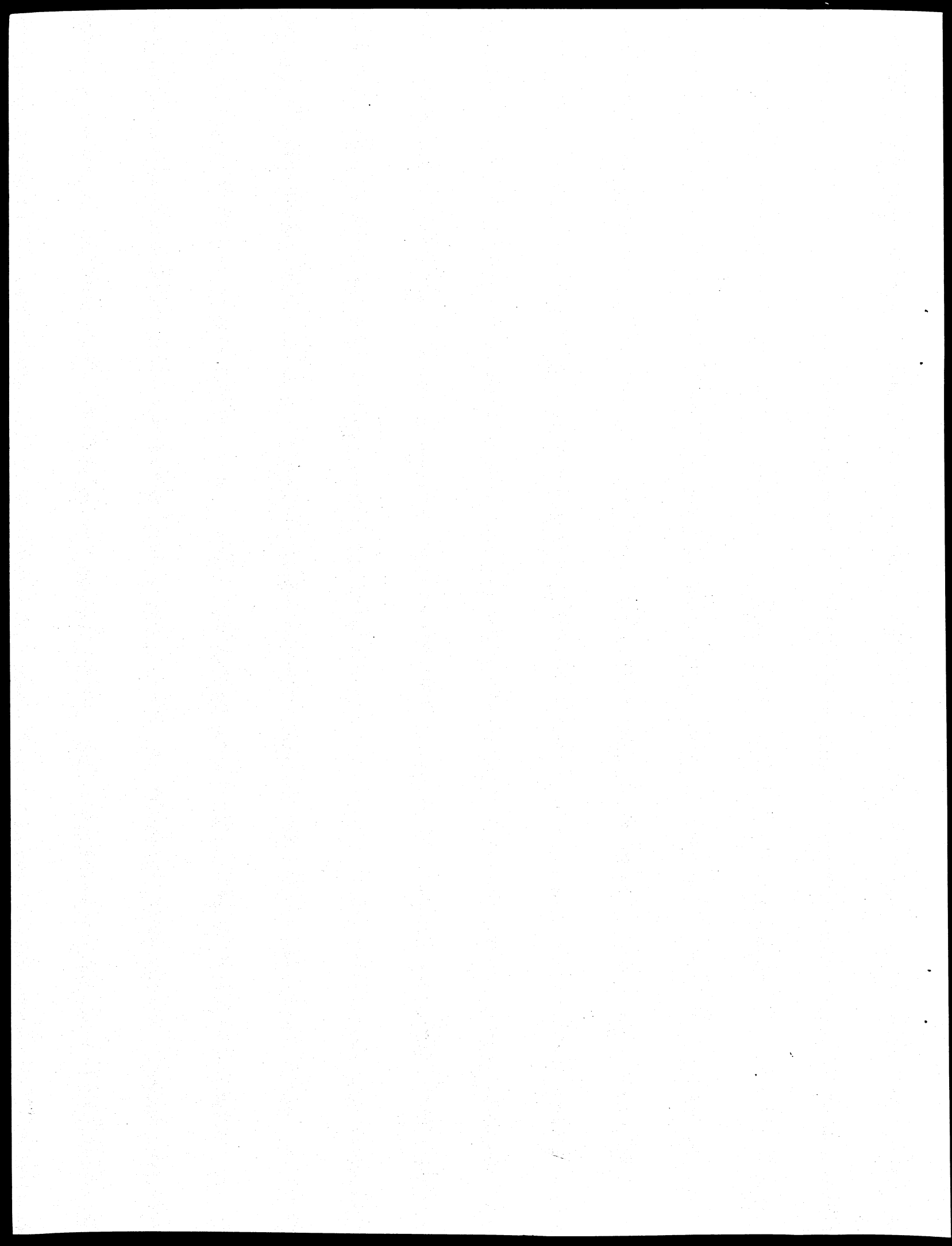
MASTER PLAN FISHERY 50 10 48

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BUREAU OF COMMERCIAL FISHERIES

SALMON





APPENDIX

Table 1--Major economic trends for total fish, 1947-68

Year	Quantity			Value		Exvessel price index 1957-59=100	U.S. per capita supply Pounds	U.S. fishermen Number	U.S. vessels Number
	U.S. landings	Imports	Imports as a percent of total supply	Landings	Imports				
	<u>Billion pounds</u> ^{1/}		<u>Percent</u>	<u>Million dollars</u>					
1947	4.35	n.a.	n.a.	312	101	97.7	n.a.	153,056	8,661
1948	4.51	1.13	20.0	371	157	111.3	39.14	158,001	9,632
1949	4.80	1.24	20.5	343	152	96.4	41.37	157,663	10,273
1950	4.90	1.65	25.1	347	198	96.4	43.96	161,463	11,496
1951	4.43	2.32	34.4	365	212	111.3	44.79	155,403	11,242
1952	4.43	3.20	42.0	364	240	111.3	50.13	151,559	11,065
1953	4.49	2.53	36.0	356	245	107.2	45.32	152,907	10,621
1954	4.76	2.83	37.3	359	252	103.2	48.13	144,645	11,179
1955	4.81	2.30	32.4	339	259	95.0	44.24	144,359	11,796
1956	5.27	2.29	30.3	372	283	96.4	46.13	141,547	11,458
1957	4.79	2.35	32.9	354	299	100.4	42.75	138,171	11,671
1958	4.75	2.78	36.9	373	331	107.2	44.27	128,960	11,496
1959	5.12	3.34	39.5	346	370	92.3	48.87	128,985	12,109
1960	4.94	3.28	39.9	354	363	96.4	46.13	130,431	12,018
1961	5.19	4.38	45.8	362	401	95.0	52.81	129,693	11,964
1962	5.35	5.05	48.6	396	490	100.4	56.58	126,333	11,511
1963	4.85	6.54	56.6	377	501	105.9	61.27	128,470	11,928
1964	4.54	7.49	62.3	389	564	116.7	63.52	127,875	11,747
1965	4.78	5.76	54.7	446	601	126.2	54.92	128,565	12,311
1966	4.37	8.10	65.0	472	720	146.6	64.6	135,636	12,677
1967	4.06	9.94	71.0	440	708	146.6	71.54	136,500	13,100
1968	4.12	13.16	76.2	472	798	156.1	87.36		

Source: Division of Economic Research, Bureau of Commercial Fisheries

^{1/} Round Weight

Table 2--Major economic trends for Atlantic groundfish, 1947-68
(50 10 03)

Year	Quantity			Value		Exvessel price index 1957-59=100	U.S. per capita consumption Pounds ^{3/}	U.S. fisher- men Number	U.S. vessels and boats Number
	U.S. landings	Imports ^{2/}	Imports as a percent of total supply	U.S. landings	Imports				
	Thous. pounds ^{1/}		Percent	Thous. dollars					
1947	165,640	36,959	18.2	30,930	6,392	83.5	1.395	n.a.	n.a.
1948	197,990	58,450	22.8	38,540	11,254	87.1	1.659	n.a.	n.a.
1949	182,000	50,871	21.8	32,940	9,117	80.9	1.624	n.a.	n.a.
1950	178,555	69,934	28.1	35,300	12,313	88.5	1.596	6,032	1,155
1951	183,570	94,975	34.1	39,780	17,530	97.0	1.839	7,034	1,344
1952	165,470	114,306	40.9	35,210	22,871	95.2	1.711	6,036	1,245
1953	139,920	95,894	40.7	28,110	17,979	89.9	1.609	6,600	1,389
1954	152,160	151,003	49.8	28,640	30,221	84.2	1.860	5,614	1,238
1955	138,500	143,145	50.8	25,550	28,821	82.5	1.702	5,188	1,153
1956	142,780	151,271	51.4	26,850	30,092	84.1	1.670	4,973	1,101
1957	131,890	159,158	54.7	27,320	32,122	92.7	1.843	4,765	1,042
1958	140,080	167,120	54.4	32,170	35,422	102.7	1.751	4,815	1,123
1959	132,300	203,287	60.6	30,940	43,577	104.6	1.802	4,787	1,114
1960	134,500	176,198	56.7	28,490	38,983	94.8	1.778	4,878	1,119
1961	140,920	214,769	60.4	28,650	48,207	91.0	2.002	4,545	1,061
1962	143,570	241,550	62.7	31,330	52,869	97.6	2.067	4,420	1,042
1963	141,610	250,214	63.9	32,710	55,590	103.3	2.069	4,269	999
1964	139,060	270,079	66.0	30,980	64,712	99.6	2.188	4,281	1,013
1965	137,380	321,361	70.1	35,570	81,953	115.8	2.324	4,134	977
1966	132,510	352,258	72.7	37,790	94,357	127.6	2.420	4,252	1,012
1967	113,580	319,811	73.8	31,790	81,370	125.1	2.257		
1968	102,410	433,779	80.9	29,590	106,242	129.2	2.657		

Source: Division of Economic Research, Bureau of Commercial Fisheries

^{1/} Fillet weight.

^{2/} Does not include flounder imports before 1954.

^{3/} Edible weight.

Table 3--Major economic trends for Pacific groundfish, 1947-68
(50 10 06)

Year	Quantity			Value		Exvessel price index 1957-59=100	U.S. per ^{2/} capita		U.S. vessels and boats Number
	U.S. landings ^{1/}	Imports ^{2/}	Imports as a percent of total supply	U.S. Landings	Imports		consumption ^{3/}	U.S. fishermen	
	Thousands pounds		Percent	Thousand dollars			Pounds	Number	
1947	21,608	36,959	63.1	4,379	6,392	110.3	1.395	n.a.	n.a.
1948	31,438	58,450	65.0	7,223	11,254	130.4	1.659	n.a.	n.a.
1949	28,140	50,871	64.3	5,416	9,117	104.3	1.624	n.a.	n.a.
1950	29,005	69,934	70.7	5,028	12,313	94.0	1.596	1,377	328
1951	30,755	94,975	75.5	7,262	17,530	128.3	1.839	1,243	305
1952	30,445	114,306	79.0	6,913	22,871	123.4	1.711	n.a.	n.a.
1953	24,646	95,894	79.6	4,631	17,979	102.2	1.609	n.a.	n.a.
1954	33,282	151,003	81.9	6,028	30,221	98.4	1.860	n.a.	n.a.
1955	31,410	143,145	82.0	5,379	28,821	92.9	1.702	888	218
1956	33,719	151,271	81.8	5,686	30,092	91.8	1.700	931	235
1957	34,006	159,158	82.4	6,267	32,112	100.0	1.844	820	224
1958	31,852	167,120	84.0	5,549	35,422	94.6	1.751	805	210
1959	33,030	203,287	86.0	6,413	43,577	105.4	1.802	849	230
1960	32,082	176,198	84.6	6,573	38,983	111.4	1.778	940	239
1961	30,346	214,769	87.6	6,142	48,207	109.8	2.003	897	236
1962	33,728	241,550	87.7	7,099	52,869	114.1	2.067	854	219
1963	34,508	250,214	87.9	7,493	55,590	115.2	2.069	852	232
1964	31,605	270,079	89.5	6,926	64,712	119.0	2.188	816	225
1965	35,415	321,361	90.1	7,523	81,953	115.2	2.325	803	220
1966	35,145	352,258	90.9	7,936	94,357	122.8	2.420	873	243
1967	32,059	319,811	90.9	7,418	81,370	125.5	2.257		
1968		433,779			106,242				

Source: Division of Economic Research, Bureau of Commercial Research

^{1/} Fillet weight.

^{2/} Includes Atlantic groundfish.

^{3/} Edible weight.

Table 4--Major Economic Trends for Pacific Halibut, 1947-68
(50 10 09)

Year	Quantity			Value		Exvessel Price Index 1957-59=100	U.S. Per capita con- sumption Pounds 2/	U.S. Fisher- men Number	U.S. Vessels and boats Number
	U.S. Landings (landed wt)	Imports ^{1/}	Imports as a Percent of Total Supply	U.S. Landings	Value ^{1/} of Imports				
	Thous. pounds		Percent	Thous. dollars					
1947	32,288	14,024	30.3	7,786	3,252	123.0	.180	2372	573
1948	37,336	13,952	27.2	7,904	3,162	108.2	.200	2723	652
1949	36,895	12,773	25.7	7,821	3,317	108.2	.201	2783	652
1950	38,650	17,029	30.6	8,457	4,954	111.7	.186	2982	734
1951	35,329	15,988	31.2	6,886	4,176	99.5	.202	2933	699
1952	38,049	15,856	29.4	7,851	4,039	105.1	.181	2309	538
1953	34,662	14,182	29.0	5,733	3,580	84.2	.190	2167	497
1954	43,680	16,541	27.5	8,140	4,137	94.9	.189	2170	518
1955	36,924	15,988	30.2	5,249	3,187	72.4	.197	2061	473
1956	41,908	15,027	26.4	9,087	4,171	110.7	.181	1947	489
1957	36,641	17,600	32.4	6,631	4,734	92.3	.195	2146	543
1958	36,295	22,280	38.0	7,786	6,134	109.7	.183	1925	484
1959	40,821	23,368	36.4	7,840	6,201	98.0	.201	1765	429
1960	38,350	24,124	38.6	6,302	5,832	83.7	.210	1627	403
1961	40,065	21,963	35.4	8,488	6,330	108.2	.194	1592	412
1962	40,446	24,905	38.1	11,658	8,245	146.9	.172	1604	410
1963	34,291	22,722	39.9	6,972	6,358	103.6	.163	1557	421
1964	26,379	28,136	51.6	6,022	8,831	116.3	.195	1060	270
1965	30,486	27,668	47.6	9,329	11,161	156.1	.171	1053	283
1966	30,319	25,195	45.4	9,827	10,610	165.3	.156	1302	386
1967	29,989	23,944	44.4	6,412	8,215	109.2	.167		
1968	19,300	29,022	60.1	4,300	10,028	113.8	.168		

Source: Division of Economic Research, Bureau of Commercial Fisheries

^{1/} Starting 1964, imports of halibut fillets and steaks are included, before it was classified as halibut and salmon.

^{2/} Edible weight.

Table 5--Major economic trends for Northern Lobster, 1947-68
(50 10 12)

Year	Quantity			Value		Exvessel price index 1957-59=100	U.S. per capita consumption Pounds ^{2/}	U. S. ^{3/} fishermen Number	U. S. ^{4/} vessels and boats Number
	U. S. ^{1/} landings	Imports	Imports as a percent of total supply	U. S. landings	Imports				
	Thous. pounds		percent	Thous. dollars					
1947	23,297	18,401	43.47	8,992	8,902	82.6	n.a.	8,561	8,070
1948	20,987	20,850	49.84	8,728	9,289	91.4	n.a.	7,765	7,260
1949	24,656	21,323	46.38	8,903	9,804	79.3	n.a.	7,779	7,430
1950	23,198	22,046	48.73	8,345	10,693	79.1	.087	7,013	6,737
1951	25,946	23,558	47.59	9,379	11,144	79.6	.088	6,474	6,231
1952	25,032	23,197	48.10	10,556	12,966	92.7	.088	6,949	6,601
1953	28,115	22,610	44.57	10,870	13,279	85.1	.086	7,191	6,449
1954	27,401	22,468	44.98	10,486	12,271	84.0	.084	7,633	7,367
1955	28,954	22,962	44.23	11,302	13,430	85.7	.087	7,735	7,502
1956	26,520	22,484	45.88	11,908	13,722	98.7	.084	7,811	7,506
1957	30,155	22,218	42.42	11,512	13,073	84.0	.088	7,660	7,381
1958	27,227	21,413	44.02	13,218	13,474	106.8	.088	8,006	7,501
1959	29,085	20,635	41.50	14,468	13,802	109.2	.082	8,328	8,086
1960	31,168	21,403	40.71	14,251	14,018	100.4	.085	8,572	8,126
1961	27,998	21,299	43.21	14,572	14,571	114.5	.081	8,380	8,106
1962	29,497	22,101	42.83	14,953	15,000	111.4	.085	7,629	7,316
1963	30,274	21,847	41.92	16,769	16,259	121.8	.080	7,427	6,695
1964	30,958	20,386	39.70	19,856	16,041	140.9	.075	7,779	6,963
1965	30,246	18,597	38.08	21,957	17,421	159.6	.077	7,873	7,251
1966	29,541	17,047	36.59	22,266	15,521	165.7	.065	4,407	6,802
1967	26,745	15,568	36.79	22,389	15,070	184.0	.060		
1968	32,300	16,153	34.30	25,200	16,388	171.4	.066		

Source: Division of Economic Research, Bureau of Commercial Fisheries

^{1/} Round Weight

^{2/} Edible Weight

^{3/} on vessels and boats using pots and traps

^{4/} vessels and boats using pots and traps

Table 6--Major economic trends for Sea Scallops, 1947-68
(50 10 15)

Year	Quantity			Value		Exvessel price index 1957-59=100	U.S. per capita consumption Pounds 2/	U.S. fisher- men Number	U.S. vessels Number
	U.S. 1/ landings	Imports	Imports as a percent of total supply	U.S. landings	Imports				
	Thous. pounds		Percent	Thous. dollars					
1947	14,654	846	5.46	7,218	445	102.3	.110	1,125	136
1948	16,636	504	2.94	8,720	295	108.7	.111	1,120	136
1949	18,296	400	2.14	6,765	204	76.8	.132	1,238	169
1950	19,980	692	3.35	9,204	282	95.6	.129	1,149	152
1951	18,746	748	3.84	8,324	304	92.1	.134	1,485	199
1952	18,630	1,610	7.95	10,832	790	120.5	.126	1,775	224
1953	23,618	1,361	5.45	10,476	646	92.1	.143	2,347	281
1954	17,631	2,017	10.27	7,976	842	93.8	.143	1,650	179
1955	22,125	1,946	8.08	11,449	907	107.5	.138	1,957	210
1956	20,066	2,350	10.48	10,822	1,139	111.8	.133	1,825	198
1957	20,994	3,368	13.82	10,180	1,628	100.6	.139	1,596	167
1958	18,977	3,903	17.06	9,140	1,791	100.0	.140	1,458	164
1959	24,644	5,108	17.17	11,805	2,430	99.4	.159	1,447	160
1960	26,599	6,873	20.53	9,266	2,754	72.2	.188	1,511	155
1961	27,461	8,652	23.96	10,404	3,418	78.6	.198	1,361	133
1962	24,634	11,563	31.94	10,024	4,993	84.4	.196	1,258	121
1963	19,939	13,397	40.18	9,257	6,340	96.3	.173	1,019	95
1964	16,914	16,175	48.88	9,244	8,540	113.5	.174	922	93
1965	20,000	16,495	45.20	13,100	10,643	135.9	.174	1,620	155
1966	15,975	16,712	51.13	7,625	8,375	99.0	.183	1,356	123
1967	10,242	13,461	56.79	7,767	9,314	157.3	.130		
1968	14,100	14,581	50.84	15,700	15,709	231.1	.131		

Source: Division of Economic Research, Bureau of Commercial Fisheries

1/ Meat weight
2/ Edible weight

Table 7--Major economic trends for Clams, 1947-68
(50 10 13)

Year	Quantity			Value		Exvessel price index 1957-59=100	U.S. per capita consumption Pounds ^{2/}	U.S. fisher- men Number	U.S. vessels and boats Number
	U.S. landings	Imports	Imports as a percent of total supply	U.S. landings	Imports				
	Thous. pounds ^{1/}		Percent	Thous. dollars					
1947	37,950	2,163	5.4	10,150	492	96.7	.272	n.a.	n.a.
1948	39,555	3,604	8.4	10,802	665	98.9	.282	n.a.	n.a.
1949	37,641	5,264	12.3	9,295	991	89.5	.270	n.a.	n.a.
1950	40,941	5,774	12.7	10,723	1,244	98.2	.286	21,856	11,071
1951	43,307	4,732	10.2	11,504	1,134	99.6	.294	20,142	10,773
1952	39,786	5,307	12.0	11,685	1,006	108.7	.269	18,671	10,288
1953	37,513	6,358	14.8	11,449	1,347	113.8	.255	19,732	9,969
1954	32,267	3,442	9.8	9,865	813	113.8	.209	17,577	10,913
1955	34,383	3,128	8.6	9,950	813	109.4	.217	16,667	10,270
1956	38,134	3,117	7.6	10,716	963	102.2	.236	15,797	9,303
1957	39,823	2,680	6.3	11,235	860	102.5	.242	16,020	8,064
1958	36,373	2,694	6.9	10,515	812	104.7	.218	17,452	8,418
1959	44,961	2,570	5.4	11,493	1,050	92.8	.264	16,645	7,900
1960	49,519	2,064	4.0	12,027	867	88.0	.283	16,094	8,249
1961	50,303	2,918	5.5	11,650	1,387	84.1	.286	16,080	8,316
1962	53,914	2,099	3.7	11,697	1,023	78.6	.300	14,716	7,488
1963	63,374	1,976	3.0	14,188	976	81.2	.345	16,341	8,777
1964	64,379	1,841	2.8	14,858	1,008	83.7	.345	16,013	8,877
1965	70,725	1,949	2.7	16,683	961	85.5	.372	16,884	8,582
1966	72,685	2,641	3.5	18,525	1,369	92.4	.382	16,459	8,571
1967	71,054	2,384	3.2	20,419	1,231	102.9	.355		
1968	66,200	2,599	3.8	20,100	1,378	110.1	.341		

Source: Division of Economic Research, Bureau of Commercial Fisheries

^{1/} Meat weight
^{2/} Edible weight.

Table 8--Major economic trends for Oysters, 1947-68
(50 10 21)

Year	Quantity			Value		Exvessel price index 1957-59=100	U.S. per capita consumption Pounds ^{2/}	U.S. fisher- men Number	U.S. vessels and boats Number
	U.S. landings ^{1/}	Imports	Imports as a percent of total supply	U.S. landings	Imports				
	Thous. pounds		Percent	Thous. dollars					
1947	79,914	111	0.1	27,691	110	78.6	.560	n.a.	n.a.
1948	78,411	160	0.2	28,675	151	82.9	.540	n.a.	n.a.
1949	77,525	341	0.4	29,543	318	86.3	.525	n.a.	n.a.
1950	76,415	446	0.6	29,596	278	87.7	.502	14,045	8,878
1951	72,990	962	1.3	29,070	544	90.2	.475	13,381	8,275
1952	82,242	595	0.7	32,339	363	89.1	.522	13,390	8,339
1953	79,719	637	0.8	29,054	397	82.5	.499	13,128	8,085
1954	81,922	1,056	1.3	32,796	625	90.6	.508	13,901	8,588
1955	77,515	1,391	1.8	30,476	686	89.1	.473	14,382	8,152
1956	75,134	1,928	2.5	30,884	869	93.1	.452	14,945	8,458
1957	71,658	2,575	3.5	29,407	1,028	92.9	.427	14,862	7,713
1958	66,396	5,015	7.0	30,442	1,587	103.8	.405	14,176	8,233
1959	64,710	5,540	7.9	29,483	1,965	103.3	.392	14,110	8,582
1960	60,010	6,597	9.9	29,242	2,302	110.4	.366	14,464	9,130
1961	62,305	7,261	10.4	33,204	2,496	120.8	.377	14,646	9,379
1962	56,037	7,387	11.6	29,139	2,883	117.8	.339	13,626	8,724
1963	58,444	8,906	13.2	27,105	3,706	105.1	.351	13,985	9,231
1964	60,534	8,154	11.9	27,926	3,320	104.5	.358	14,280	9,541
1965	54,688	9,001	14.1	27,863	3,842	115.6	.331	13,770	9,125
1966	31,223	12,028	19.0	27,373	5,054	121.0	.315	14,061	9,387
1967	59,957	17,672	22.8	32,241	6,912	121.9	.385		
1968	55,600	15,550	21.9	29,800	6,528	121.5	.358		

Source: Division of Economic Research, Bureau of Commercial Fisheries

^{1/} Meat weight

^{2/} Edible weight

Table 9--Major economic trends for Shrimp, 1947-68
(50 10 24 and 50 10 27)

Year	Quantity			Value		Exvessel price index 1957-59=100	U.S. per capita consumption Pounds2/	U.S. fisher- men Number	U.S. vessels and boats Number
	U.S. landings	Imports	Imports as a percent of total supply	U.S. landings	Imports				
	Million pounds1/		Percent	Million dollars					
1947	n.a.	13.3	n.a.	n.a.	5.2	n.a.	0.69	n.a.	n.a.
1948	73.2	21.6	22.8	25.5	10.0	66.0	0.69	n.a.	n.a.
1949	77.3	29.7	27.8	29.5	13.6	72.5	0.71	n.a.	n.a.
1950	113.9	40.2	26.1	43.4	18.8	72.3	0.72	15,654	7,237
1951	133.5	41.8	23.8	51.9	19.4	73.8	0.84	15,202	6,770
1952	135.3	38.5	22.2	55.1	18.5	77.2	0.89	15,080	6,680
1953	155.0	43.1	21.8	76.6	20.9	93.7	0.89	15,178	6,659
1954	159.7	41.5	20.6	60.8	18.6	72.3	0.91	16,386	7,408
1955	145.4	53.8	27.0	61.8	24.5	80.6	0.95	15,509	7,243
1956	133.4	68.6	34.0	70.9	33.0	100.8	0.90	15,965	7,546
1957	121.4	69.7	36.5	73.1	35.5	114.2	0.81	15,109	6,825
1958	127.3	85.4	40.2	72.9	43.2	108.7	0.87	16,163	7,323
1959	143.0	111.7	43.9	58.1	52.3	77.0	1.05	16,207	7,658
1960	148.5	119.1	44.5	66.9	56.4	85.6	1.09	15,496	7,708
1961	103.9	134.6	56.4	51.7	68.5	94.5	1.05	15,054	7,291
1962	119.1	152.5	56.1	73.2	91.9	116.7	1.04	15,665	8,271
1963	150.7	167.3	52.6	70.0	103.2	88.0	1.16	16,528	8,793
1964	133.1	169.5	56.0	70.4	107.3	100.4	1.18	16,133	8,606
1965	152.3	178.9	54.0	82.4	113.7	102.7	1.27	16,790	9,221
1966	148.2	195.0	56.8	96.3	143.1	123.3	1.25	16,797	9,499
1967	189.5	202.0	51.6	103.5	150.8	103.6	1.35		
1968	178.6	209.5	54.0	113.3	161.8	120.3	1.41		

Source: Division of Economic Research, Bureau of Commercial Fisheries

1/ Heads-off weight

2/ Edible weight

Table 10--Major economic trends for Crabs, 1947-68
(50 10 30 and 50 10 33)

Year	Quantity			Value		Exvessel price index 1957-59=100	U.S. per capita consumption Pounds 2/	U.S. fisher- men Number	U.S. vessels and boats Number
	U.S. landings	Imports	Imports as a percent of total supply	U.S. landings	Imports				
	Million pounds 1/		Percent	Million dollars					
1947	159.8	2.5	1.5	11.88	0.33	97.8	.184	n.a.	n.a.
1948	166.7	7.1	4.1	11.89	0.77	93.8	.181	n.a.	n.a.
1949	152.4	11.8	7.2	9.78	1.98	84.5	.165	n.a.	n.a.
1950	155.5	20.8	11.8	9.08	3.71	76.8	.160	7,049	6,085
1951	145.7	10.2	6.5	9.60	2.14	86.7	.176	7,060	6,020
1952	133.5	11.0	7.6	8.92	2.31	87.9	.162	6,408	5,523
1953	141.7	22.1	13.5	9.98	4.31	92.6	.179	6,886	5,814
1954	138.9	17.6	11.2	9.52	3.17	90.1	.170	6,745	5,636
1955	133.8	29.3	18.0	9.37	5.24	97.1	.171	8,093	6,921
1956	141.3	30.3	17.6	11.51	5.52	107.1	.183	8,168	7,213
1957	169.6	31.7	15.7	12.06	6.32	93.6	.214	7,812	6,748
1958	164.2	30.5	15.7	12.16	6.25	97.4	.206	7,905	6,841
1959	175.3	38.2	17.9	14.56	8.13	109.2	.219	8,151	6,990
1960	219.3	26.2	10.7	16.80	5.96	100.8	.239	8,064	6,939
1961	228.9	25.6	8.1	17.04	6.19	97.9	.243	8,060	6,955
1962	231.4	20.7	8.2	18.33	5.22	104.2	.238	8,010	6,933
1963	248.8	29.6	10.6	20.93	6.59	110.7	.254	8,122	6,975
1964	266.8	25.6	8.7	23.33	5.80	115.0	.260	8,487	7,327
1965	331.9	23.4	6.6	30.28	5.18	120.0	.330	8,885	6,805
1966	365.7	12.4	3.3	31.18	2.93	112.2	.362	9,239	7,888
1967	315.1	12.8	3.9	30.22	2.19	126.2	.324		
1968	238.5			44.50		245.5			

Source: Division of Economic Research, Bureau of Commercial Fisheries

1/Round weight

2/Edible weight

Table 11--Major economic trends for Menhaden and Fish Meal, 1947-68
(50 10 42)

Year	Quantity				Value		
	U.S. menhaden landings ^{1/}	U.S. pro- duction of fish meal	Imports of fish meal	Imports as a percent of total supply	U.S. menhaden landings	U.S. fish meal production	Imports
	<u>Mil. lbs.</u>	<u>Mil. lbs.</u>	<u>Mil. lbs.</u>	<u>Percent</u>	<u>Mil. dol.</u>	<u>Mil. dol.</u>	<u>Mil. dol.</u>
1947	1,008	373	17	4.4	11.1	22.4	0.8
1948	991	399	82	17.0	10.6	23.1	5.0
1949	1,076	474	104	18.0	10.9	35.7	7.5
1950	1,026	480	128	21.0	10.4	29.3	7.2
1951	1,127	420	257	38.0	13.0	25.4	14.4
1952	1,384	443	408	47.9	13.2	27.2	24.3
1953	1,696	478	264	35.5	18.6	29.6	15.2
1954	1,738	514	292	36.2	23.5	32.8	18.1
1955	1,868	529	196	27.0	25.0	34.7	13.0
1956	2,097	592	180	23.4	28.4	37.9	11.5
1957	1,690	528	162	23.5	22.2	32.6	9.7
1958	1,549	496	200	28.8	21.9	31.8	11.3
1959	2,203	613	266	30.2	26.2	35.9	15.9
1960	2,018	580	264	31.2	20.3	25.3	11.1
1961	2,315	623	436	41.2	25.6	31.9	16.7
1962	2,348	625	504	44.7	25.9	35.6	24.3
1963	1,816	512	752	59.5	22.4	30.2	37.0
1964	1,569	470	878	65.1	22.1	28.0	44.2
1965	1,726	508	542	51.6	27.1	35.7	30.7
1966	1,308	448	896	67.7	21.8	32.3	59.3
1967	1,164	422	1,302	75.5	14.4	26.0	73.0
1968	1,381	469	1,710	78.5	18.7	30.1	82.5

Source: Division of Economic Research, Bureau of Commercial Fisheries

^{1/} Round weight.

Table 11.--Major economic trends for Menhaden and Fish Meal, 1947-68 (continued)
(50 10 42)

Year	Menhaden exvessel price index <u>1957-59=100</u>	Fish meal price index <u>1957-59=100</u>	U.S. per capita utilization of fish meal <u>Pounds</u>	U.S. fisherman <u>Number</u>	U.S. vessels <u>Number</u>
1947	84.2	97.8	2.73	n.a.	n.a.
1948	81.9	94.6	3.31	n.a.	n.a.
1949	77.3	122.3	3.92	n.a.	n.a.
1950	77.3	99.5	4.04	4,080	182
1951	88.0	98.6	4.48	4,089	183
1952	73.5	100.3	5.54	3,866	170
1953	84.2	101.1	4.75	4,089	181
1954	103.3	103.5	5.05	4,083	174
1955	102.5	106.8	4.47	4,883	212
1956	104.1	104.3	4.67	5,065	219
1957	100.3	100.3	4.10	4,873	227
1958	108.7	104.3	4.06	4,544	201
1959	91.1	95.4	5.04	4,684	222
1960	77.3	70.9	4.73	4,353	183
1961	84.2	84.0	5.83	3,495	180
1962	84.2	92.9	5.58	3,339	180
1963	94.1	96.2	6.78	3,140	179
1964	107.9	97.0	7.15	3,196	183
1965	120.1	114.9	5.47	2,722	161
1966	127.0	117.4	6.93	2,620	153
1967	94.9	100.3	8.81		
1968	103.3	104.3	11.02		

Source: Division of Economic Research, Bureau of Commercial Fisheries

Table 12--Major economic trends for Tuna, 1947-68
(50 10 45)

Year	Quantity			Value		Exvessel price index 1957-59=100	Wholesale price index	U.S. per capita consumption Pounds 3/	U.S. fishermen Number	U.S. vessels and boats Number
	U.S. 1/ landings	Imports	Imports as a percent of total supply	Landings	Imports					
	Million pounds 2/		Percent	Million dollars						
1947	263	9	3.3	43.6	4.5	125.2	135.9	0.78	n.a.	n.a.
1948	329	14	4.1	61.1	6.4	142.0	141.6	0.89	n.a.	n.a.
1949	345	14	3.9	55.9	5.1	124.4	120.1	0.89	n.a.	n.a.
1950	403	80	16.6	63.4	22.1	119.8	112.0	1.13	n.a.	n.a.
1951	335	72	17.7	50.4	12.1	114.5	109.4	1.22	n.a.	n.a.
1952	333	93	21.8	51.3	18.0	116.8	110.0	1.27	n.a.	n.a.
1953	321	131	29.0	49.8	28.5	118.3	116.5	1.37	n.a.	n.a.
1954	346	159	31.5	56.6	34.5	126.0	115.1	1.37	n.a.	n.a.
1955	292	200	40.7	42.8	32.9	111.5	110.4	1.43	n.a.	n.a.
1956	355	198	35.8	47.2	30.3	100.8	106.1	1.57	6,610	2,229
1957	323	234	42.0	41.4	33.8	96.2	101.2	1.58	6,141	2,317
1958	345	309	47.2	46.1	42.3	103.8	101.2	1.77	6,646	2,303
1959	308	368	54.4	40.2	51.4	99.2	97.7	1.88	5,924	1,946
1960	317	357	52.8	40.2	50.6	94.7	99.3	2.05	4,858	1,535
1961	357	328	47.9	46.1	52.2	98.5	105.5	2.08	4,535	1,520
1962	341	421	55.2	48.9	68.4	110.7	108.3	1.97	4,859	1,798
1963	359	378	51.3	43.9	58.7	96.2	106.9	1.98	4,823	1,872
1964	354	434	55.1	44.4	74.0	97.7	107.8	2.01	4,014	1,552
1965	373	430	53.5	47.8	68.8	99.2	112.8	2.32	4,817	1,847
1966	334	511	60.5	57.6	109.3	126.7	118.7	2.20	5,455	1,978
1967	426	452	51.5	55.0	96.6	97.7	115.6	2.32		
1968	402	488	54.8		104.5	122.9	116.6	2.29		

Source: Division of Economic Research, Bureau of Commercial Fisheries.

1/ Includes Puerto Rico

2/ Round weight

3/ Canned tuna, edible weight

Table 13--Major economic trends for Salmon, 1947-68
(50 10 48)

Year	Quantity	Value	Exvessel price index 1957-59=100	Wholesale price index	U.S. per capita consumption Pounds ^{2/}	U.S. fishermen Number	U.S. vessels and boats Number
	U.S. landings Mil. lbs. ^{1/}	U.S. landings Mil. dol.					
1947	498	39.3	49.8	79.3	1.28	n.a.	n.a.
1948	404	38.2	59.9	92.6	1.63	n.a.	n.a.
1949	484	46.7	60.5	69.5	1.60	n.a.	n.a.
1950	329	37.4	71.9	94.2	1.42	n.a.	n.a.
1951	374	52.5	88.3	86.8	1.40	n.a.	n.a.
1952	352	45.2	80.7	81.8	1.43	n.a.	n.a.
1953	313	37.8	76.3	78.0	1.30	n.a.	n.a.
1954	325	44.0	85.1	82.3	1.11	n.a.	n.a.
1955	290	40.7	88.3	91.9	1.04	n.a.	n.a.
1956	324	46.2	89.5	100.7	1.11	n.a.	n.a.
1957	265	39.6	94.6	99.6	1.03	n.a.	n.a.
1958	308	45.9	93.9	92.3	1.07	n.a.	n.a.
1959	202	35.7	111.6	108.1	0.94	19,172	12,894
1960	356	44.7	119.8	115.6	0.72	22,036	13,875
1961	310	52.0	105.9	117.6	0.79	24,199	15,234
1962	315	56.4	112.9	104.2	0.95	23,216	14,976
1963	294	49.0	105.3	99.1	0.77	23,853	15,326
1964	352	56.0	100.3	94.6	0.72	23,708	14,898
1965	327	65.1	125.5	125.4	0.90	26,111	16,399
1966	388	73.5	119.8	115.1	0.76	27,814	17,076
1967	217	48.5	141.2	131.1	0.73		
1968	301	54.9	114.8	128.3	0.73		

Source: Division of Economic Research, Bureau of Commercial Fisheries

^{1/} Round weight

^{2/} Canned, edible weight

(continued from inside front cover)

17. An Economic Evaluation of Columbia River Anadromous Fish Programs
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33. A Survey of Fish Purchases by Socio-Economic Characteristics -
First Quarterly Report - February, March, April, 1969 - by D. Nash
34. A Survey of Fish Purchase by Socio-Economic Characteristics -
Second Quarterly Report - May, June, July, 1969 - By D. Nash
35. A Simplified Guide to Benefit-Cost Analysis for BCF Programs by F. Bell
36. Estimation of the Economic Benefits to Fishermen, Vessels, and Society
from Limited Entry: A Generalized Model Applied to the Northern
Lobster Fishery by F. Bell

37. Major Economic Trends in Selected U.S. Master Plan Fisheries:
A Graphical Survey by R. Kinoshita and F. Bell
38. Market Potential of the San Pedro Wetfish Fishery: A Demand
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