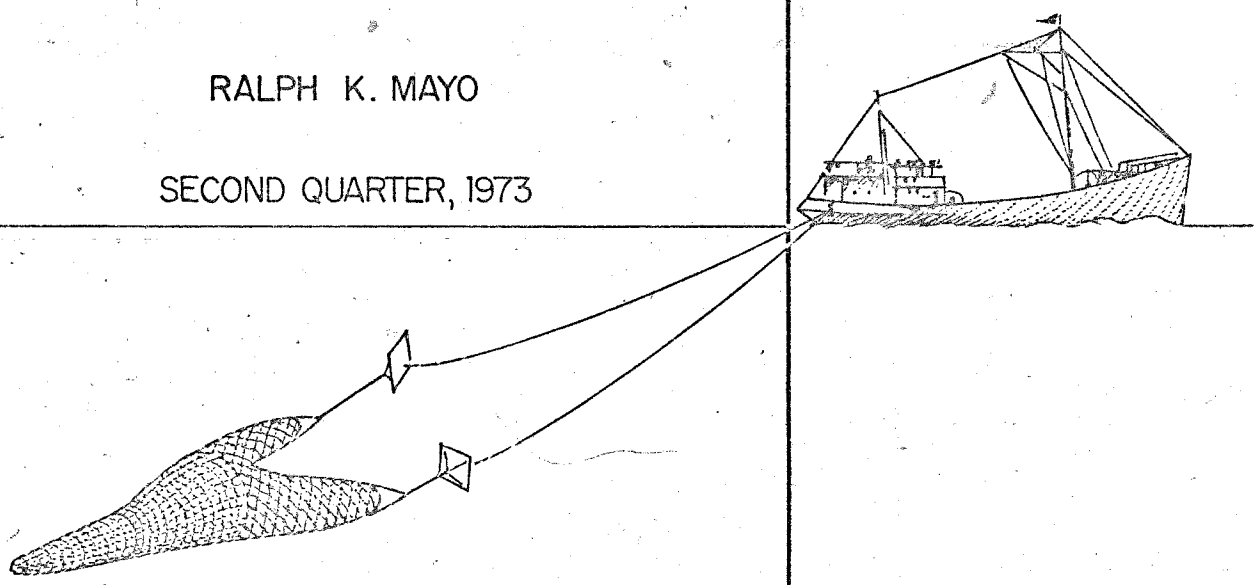
73-7

STOCK CATALOGUE OF THE NEW ENGLAND FISHERIES

RALPH K. MAYO

SECOND QUARTER, 1973



NATIONAL MARINE FISHERIES SERVICE
NORTHEAST FISHERIES CENTER
WOODS HOLE, MASSACHUSETTS, 02543

Reference No 73-7

Section I - U.S. Statistics

Haddock

Total haddock landings for the second quarter declined by 30% as compared to the same period in 1972 (Table 1). Cumulative landings for the first two quarters are also down by 35% from the 1972 level. The largest drop was noted in the landings of large haddock from Georges Bank.

The overall Georges Bank adjusted commercial catch per unit of effort index continued to increase slightly in the second quarter. The scrod haddock index increased while the large haddock category index declined by 50% over the same period in 1972.

Cod

Cod second quarter landings by U.S. fishermen from all ICNAF divisions remained relatively constant as compared to the same period in 1972 (Table 1). Cumulative 1973 landings were also approximately equal to the 1972 level. The Georges Bank landings per day index increased in relation to the 1972 second quarter value.

Pollock

Total U.S. pollock landings for the second quarter and cumulative pollock landings in 1973 were approximately equal to the 1972 levels (Table 1). The Georges Bank abundance index for the second quarter increased over the 1972 index for the same period.

Redfish

Redfish landings for the second quarter of 1973 were 16% lower than for the same period in 1972 (Table 2). The major portion of the second quarter landings in 1973 was taken from the Gulf of Maine while the majority in 1972 came from the Nova Scotian shelf.

Cumulative totals, however, show that most of the redfish landed by U.S. fishermen to date in 1973 was caught on the Nova Scotian shelf.

Redfish landings per day indices for the second quarter of 1973 are equal to or slightly less than those reported for the same period in 1972.

Silver Hake

Silver hake landings in the second quarter of 1973 were up 56% over the same period in 1972. Cumulative landings increased by a similar amount (Table 2). Landings from the Gulf of Maine and from southern New England accounted for the majority of second quarter landings.

Red Hake

Red hake statistics in 1973 reveal a 36% increase in second quarter landings and a 52% increase in cumulative landings over the same period in 1972 (Table 2). The increase in cumulative red hake landings is attributed to an increase in the red hake in industrial landings from the Middle Atlantic area for the second quarter and from the southern New England area for the first quarter of 1973.

Yellowtail

Second quarter yellowtail flounder landings showed little change between 1972 and 1973. Landings from Georges Bank were slightly greater in 1972 while those from southern New England and Middle Atlantic areas exhibited a slight decline (Table 3).

Cumulative catch statistics for the first two quarters show that 51% of the 15,000 metric ton quota from East of 69°, and 59% of the 9,000 metric ton quota from West of 69° has been caught.

Second quarter relative abundance indices were similar in 1973 and 1972 except for a drop in the southern New England index in 1973.

Other Flounders

Second quarter landings of flounders other than yellowtail increased in all ICNAF divisions in 1973 (Table 3). Total second quarter landings were up 148% over the same period in 1972. Cumulative landings for the first two quarters showed a similar increase.

Sea Herring

Second quarter sea herring landings in 1973 decreased by 43% from the 1972 value (Table 4). Cumulative landings, however, are similar in both years. Ninety-nine percent of the second quarter landings were from the Gulf of Maine in both 1973 and 1972.

Mackerel

Mackerel landings in the second quarter of 1973 were approximately equal to the 1972 level (Table 4). Cumulative 1973 landings, however, are up 64% over 1972 and indicate a substantial increase in first quarter landings from the Southern New England grounds.

Sea Scallops

Total second quarter sea scallop landings were similar in 1972 and 1973 (Table 5). The second quarter statistics reveal an increase in both landings and landings per day fished on Georges Bank and a similar decline in the Middle Atlantic area. These trends indicate a shift in fishing effort from the Middle Atlantic area in 1972 to Georges Bank in 1973.

Squid

The U.S. fishery for squid (*Loligo* and *Ilex*) is conducted primarily in the southern New England area. Total 1973 second quarter squid landings increased by 49% over the same period in 1972 (Table 5). Cumulative landings also increased by a similar percentage.

Industrial Fishery

Industrial landings in the second quarter of 1973 increased by 86% over the second quarter of 1972 in the Southern New England area. Second quarter landings from the Middle Atlantic area were similar in both years (Table 6).

The fishery continues to be dominated by ocean pout, red hake and sculpin. The percentage of skates was approximately equal to the 1972 value while yellowtail showed a substantial decline.

Table 1. United States haddock, cod, and pollock statistics (metric tons, live wt.) for the 2nd quarter, 1973-72.

Species/Area/Mkt. Cat.	Landings		Landings/Day		Cumulative Landings	
	1973	1972	1973	1972	1973	1972
Haddock						
Georges Bank(5Z)	1,059	1,477	1.80*	1.70*	1,538	2,307
Scrod	339	199	1.37*	1.09*	434	307
Large	720	1,278	0.56*	1.14*	1,104	2,000
Gulf of Maine(5Y)	185	241			325	561
Scrod	9	2			13	26
Large	176	239			312	535
E. Scotian Shelf (4W)	72	3			172	231
Scrod	46	1			90	118
Large	26	2			82	113
Browns Bank (4X)	92	91			261	239
Scrod	41	46			107	92
Large	51	45			154	147
TOTAL	1,408	1,812			2,296	3,338
Scrod	435	248			644	543
Large	973	1,564			1,652	2,795
Cod						
Georges Bank(5Z)	4,238	3,701	3.12	2.31	6,485	6,409
Gulf of Maine(5Y)	2,022	2,255			3,395	3,782
E. Scotian Shelf(4W)	--	9			34	262
Browns Bank(4X)	49	41			115	87
Mid-Atlantic(SA6)	24	35			40	85
TOTAL	6,333	6,401			10,069	10,625
Pollock						
Nova Scotian Shelf(4X)	301	96			446	140
Gulf of Maine(5Y)	487	363			837	635
Georges Bank (5Ze)	368	447	1.00	0.42	915	1,117
TOTAL	1,156	906			2,198	1,892

*Georges Bank abundance indices adjusted for closed area during April and May.

Table 2. United States redfish, silver hake, and red hake statistics (metric tons, live wt.) for the 2nd quarter, 1973-1972.

Spp/Area	Landings		Landings/Day		Cumulative Landings	
	1973	1972	1973	1972	1973	1972
REDFISH						
Nova Scotian Shelf (4VWX)	2696	4722	11.6	14.1	6686	8712
Gulf of Maine (5Y)	3267	2573	6.7	6.7	4873	3301
Georges Bank (5Z)	1916	2146	4.9	6.0	3642	3085
Total	7879	9441			14626	15098
SILVER HAKE						
Gulf of Maine (5Y)	979	441			1014	460
Georges Bank (5Ze)	293	30			293	34
So. New England (5Zw)	993	924			1103	1006
Industrial Est.	531	73			564	73
Food	462	851			539	933
Mid-Atlantic	200	242			213	258
Industrial Est.	59	44			59	44
Food	141	141			154	214
Total	2465	1580			2623	1754
RED HAKE						
Gulf of Maine (5Y)	21	14			35	28
Georges Bank (5Ze)	5	18			6	19
So. New England (5ZW)	680	617			1239	648
Industrial Est.	643	586			1150	592
Food	37	31			89	56
Mid-Atlantic	198	14			203	20
Industrial Est.	193	10			193	10
Food	5	4			10	10
Total	904	663			1483	715

Table 3. United States flounder statistics (metric tons, live wt.) for 2nd quarter, 1973-72.

Species Group/Area	Landings		Landings/Day		Cumulative Landings	
Yellowtail Catch	1973	1972	1973	1972	1973	1972
East of 69°						
Food	3608	3277	1.7	1.7	6888	5749
Discard Est.	303	529			703	696
Total	3911	3806			7591	6445
West of 69°						
So. N. England						
Food	1097	1312	1.7	2.6	3827	4610
Discard Est.	141	404			401	1032
Industrial Est.	103	219			147	261
Total	1341	1935			4375	5903
Cape Cod Gnds.						
Food	446	346	2.0	2.3	832	760
Discard Est.	57	106			87	170
Total	503	452			919	930
Total	1844	2387			5294	6833
Mid-Atlantic						
Food	650	983	4.5	4.0	1139	1857
Discard Est.	-	-			-	-
Industrial Est.	24	55			24	58
Total	674	1018			1163	1915
Other Flounders*						
Gulf of Maine	1013	483			1563	778
Georges Bank	2971	1402			3845	1850
So. N. England	1838	429			2230	632
Food	1349	270			1670	449
Industrial Est.	489	159			560	183
Mid-Atlantic	354	174			391	216
Food	313	143			349	181
Industrial Est.	41	31			42	35

*Am. plaice (dab), summer flounder (fluke), winter flounder (blackback, lemon sole), and witch (greysole).

Table 4. United States sea herring and mackerel statistics (metric tons, live wt.) for 2nd quarter, 1973-72

Species/Area	Landings		Cumulative Landings	
SEA HERRING	1973	1972	1973	1972
Gulf of Maine (5Y)	2851	4973	2968	4975
Georges Bank (5Ze)	1	-	1	-
So. N.England (5Zw)	2	45	3885	2009
Food	1	28	3884	1977
Industrial est.	1	17	1	32
Mid-Atlantic (SA6)	1	12	286	84
Food	-	-	285	72
Industrial est.	1	12	1	12
Total	2855	5030	7140	7068
MACKEREL				
Gulf of Maine (5Y)	164	150	164	150
Georges Bank (5Ze)	-	6	-	6
So. N. England (5Zw)	94	73	208	77
Mid-Atlantic (SA6)	5	2	30	12
Total	263	231	402	245

Table 5. United States sea scallop and squid statistics (metric tons, live wt.) for 2nd quarter, 1973-72.

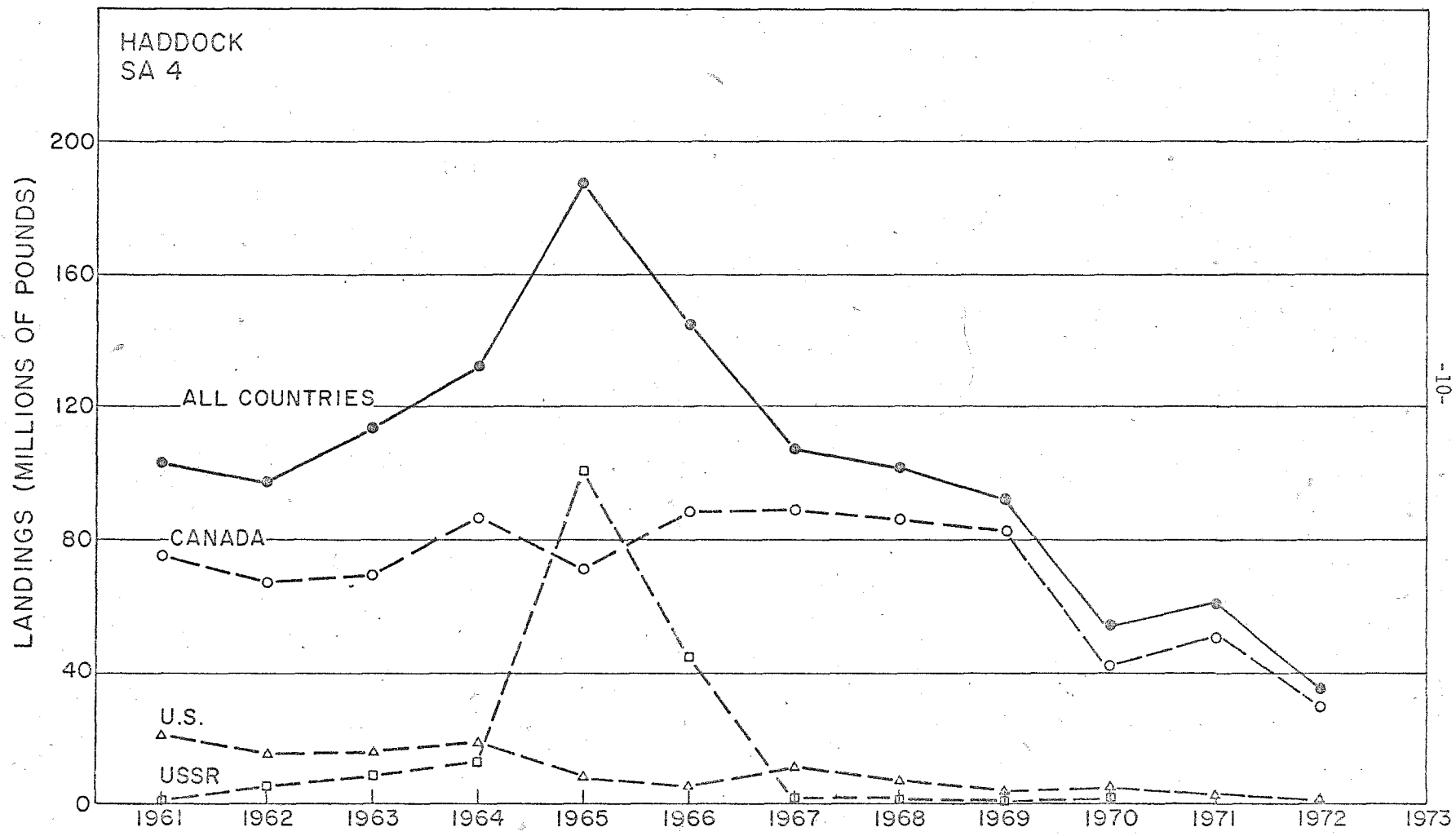
Species/Area	Landings		Landings/Day		Cumulative landings	
	1973	1972	1973	1972	1973 1/	1972
Sea scallops						
Gulf of Maine (5Y)	623	836	0.2	0.3	2505	2432
Georges Bank (5Ze)	2886	471	0.6	0.4	4762	2448
Mid-Atlantic (SA6)	1074	3226	0.4	0.6	1568	3603
TOTAL	4583	4533			8835	8483
Squid						
Gulf of Maine (5Y)	1	*			1	*
Georges Bank (5Ze)	2	3			2	6
So. New England (5Zw)	463	311			543	327
Food	461	300			541	316
Industrial	2	11			2	11
Mid Atlantic (SA6)	42	45			52	45
Food	42	45			52	45
Industrial	*	--			*	--
TOTAL	508	359			598	378

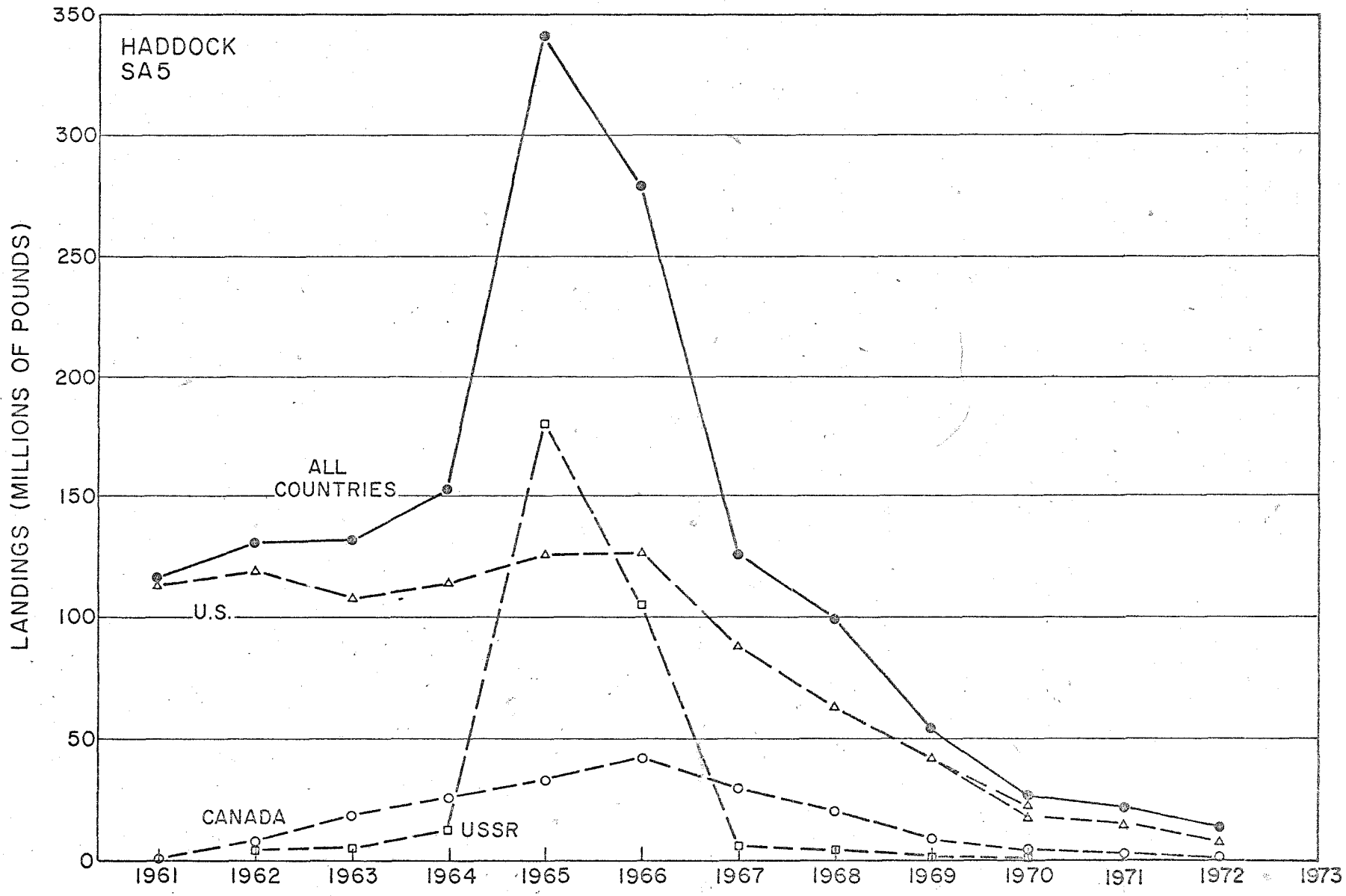
1/ Corrected for erroneous value reported in 1973, quarter 1.

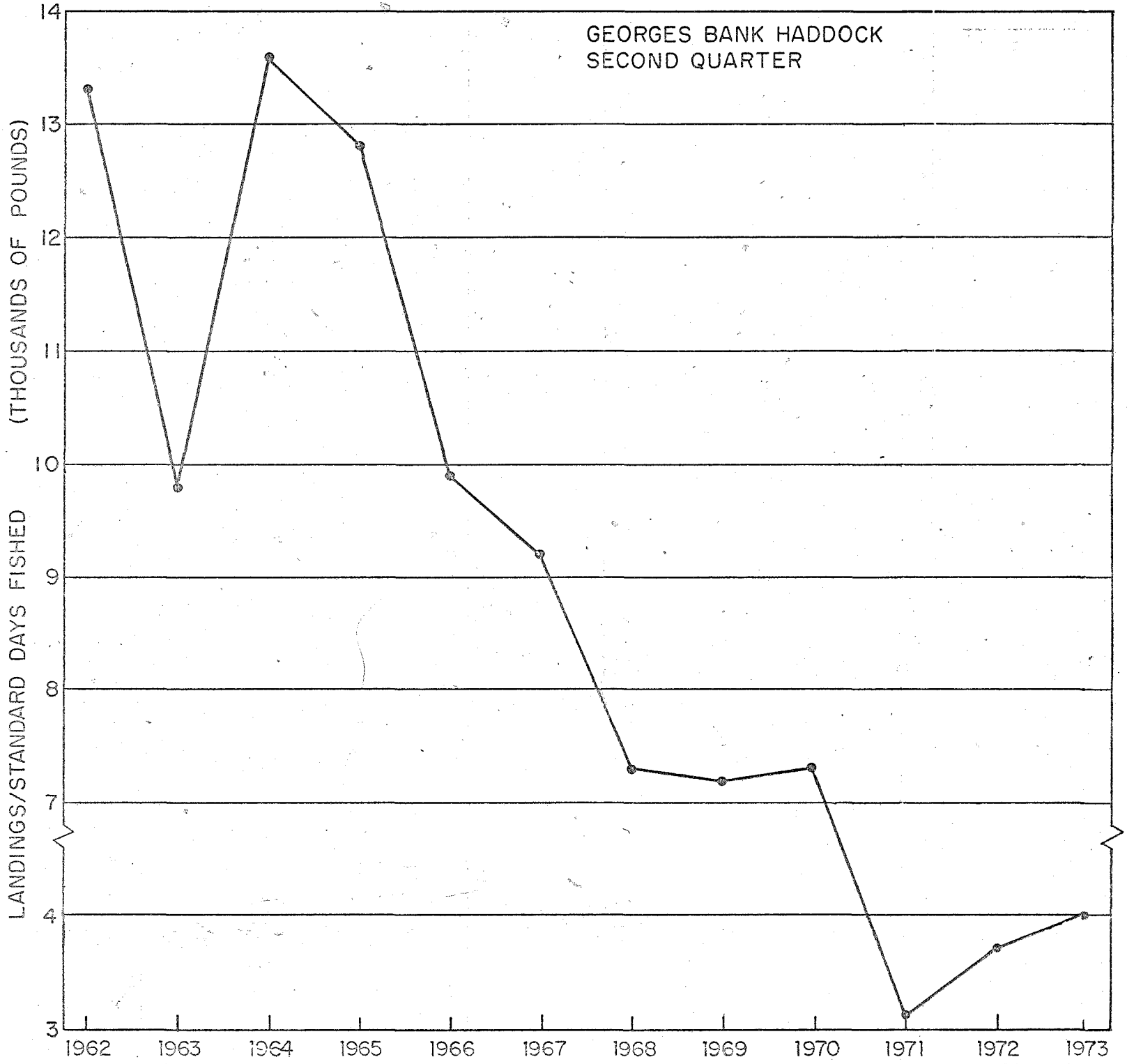
* <1

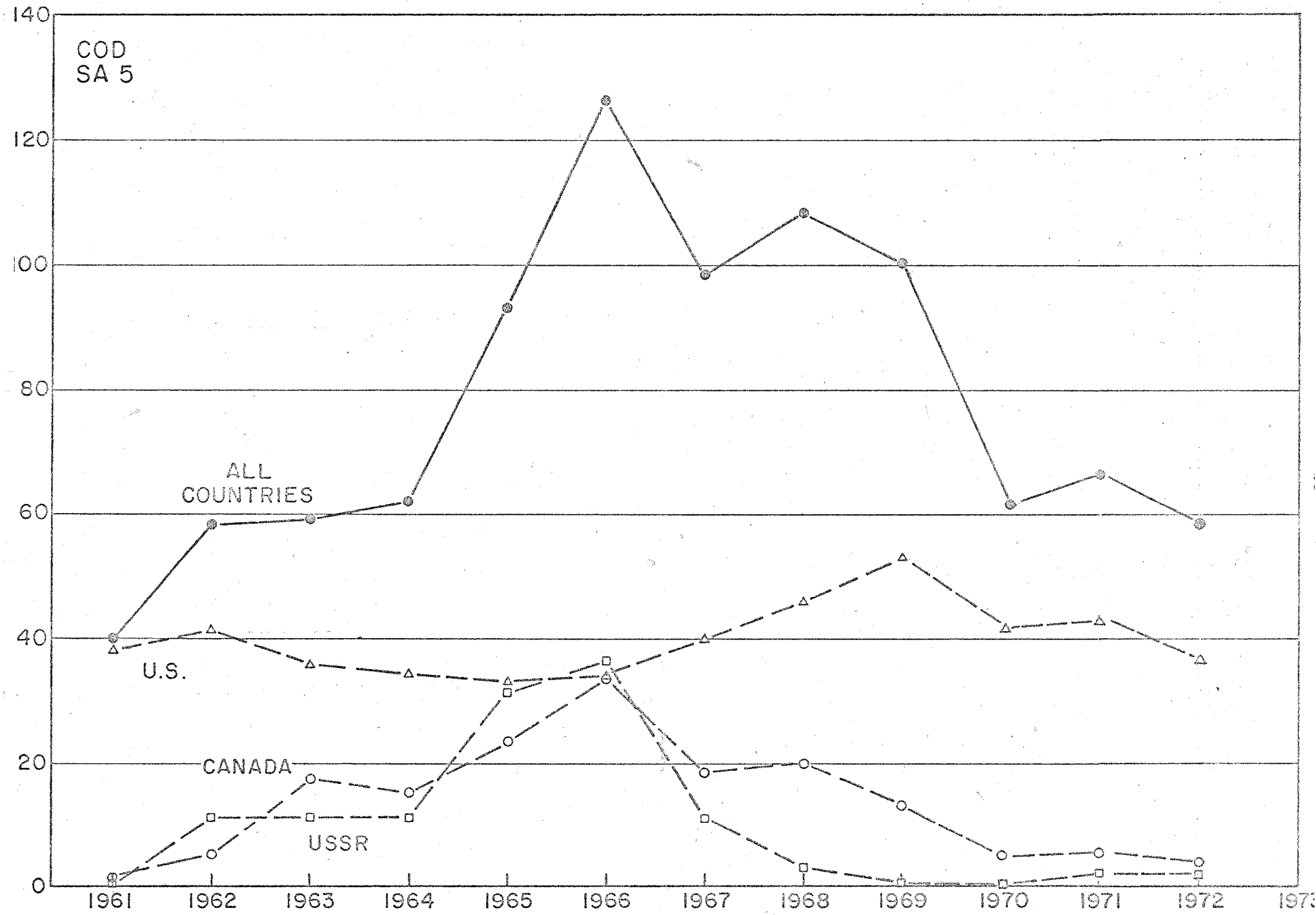
Table 6. Species composition (%), landings (metric tons, live wt.) and effort for mixed industrial fishery, 2nd quarter, 1973-1972

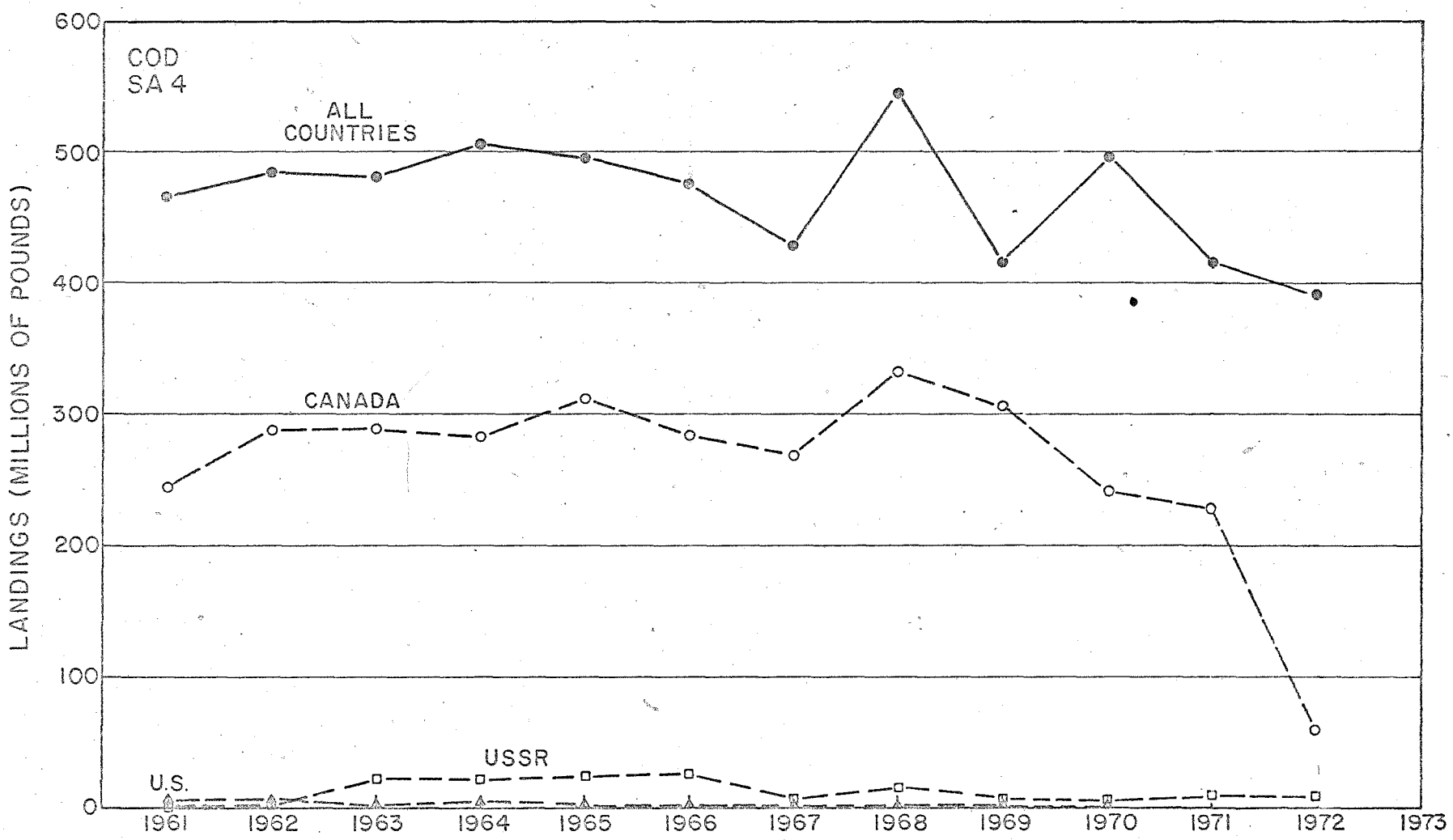
Area/Species	Percent of Landings		Percent of Cumulative Landings	
	1973	1972	1973	1972
So. New England (5ZW)				
Eel pout	24.1	37.4	33.6	41.4
Red hake	11.5	19.5	14.7	13.1
Skates	8.6	10.6	8.0	12.6
Flounder (except Y.T.)	8.7	5.2	7.1	4.1
Sculpin	31.6	7.3	23.4	13.2
Yellowtail	1.8	7.3	1.9	5.9
Silver hake	9.5	2.4	7.2	1.6
Sea herring	0.0	0.5	0.5	0.7
Others	4.2	9.8	3.6	6.8
Total Landings (Met. Tons)	5613	3011	7847	4532
Landings / Day	38.1	34.6	38.5	28.4
Days Fished	147	87	204	161
Mid-Atlantic (SA6)				
Eel Pout	28.0	39.3	29.9	43.0
Sculpin	26.7	7.8	27.1	9.2
Skate	6.8	7.1	6.8	7.0
Flounders (except Y.T.)	4.7	3.7	4.5	3.6
Sea robin	0.1	0.7	0.1	0.6
Yellowtail	2.8	6.3	2.6	5.8
Red hake	22.2	26.4	20.8	22.7
Silver hake	6.8	5.1	6.4	4.4
Sea herring	0.1	1.4	0.1	1.2
Others	1.8	2.2	1.7	2.1
Total Landings (Met Tons)	870	868	925	1010
Landings / Day	31.5	50.7	27.2	29.7
Days Fished	28	17	34	34
UNSAMPLED Industrial Landings				
Gulf of Maine (5Y)	28.9	47.0	35.9	51.0
Georges Bank (5Ze)	50.0	-	50.0	62.0

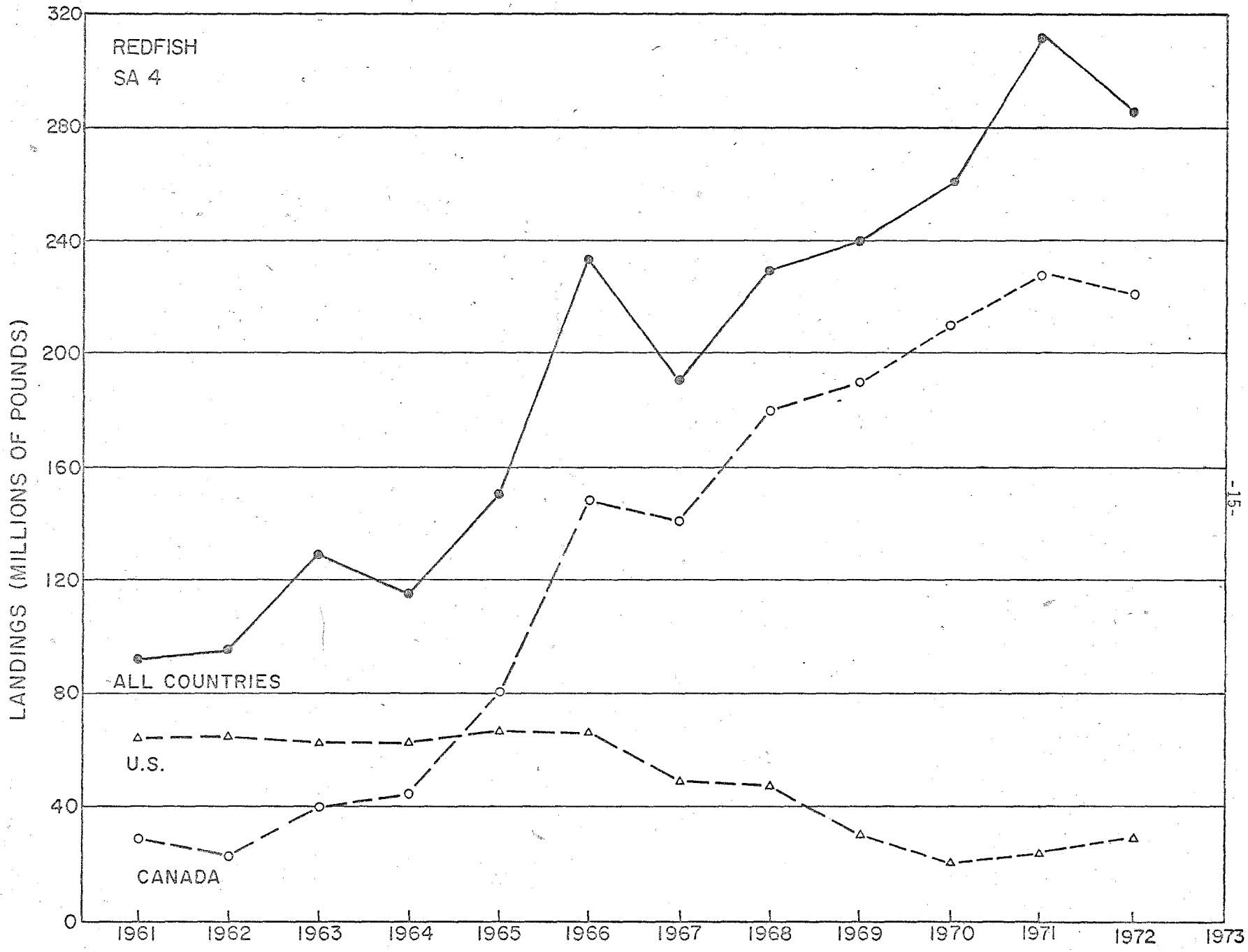

HADDOCK
SA 4
LANDINGS (MILLIONS OF POUNDS)
200
160
120
80
40
0
ALL COUNTRIES
CANADA
U.S.
USSR
1961
1962
1963
1964
1965
1966
1967
1968
1969
1970
1971
1972
1973

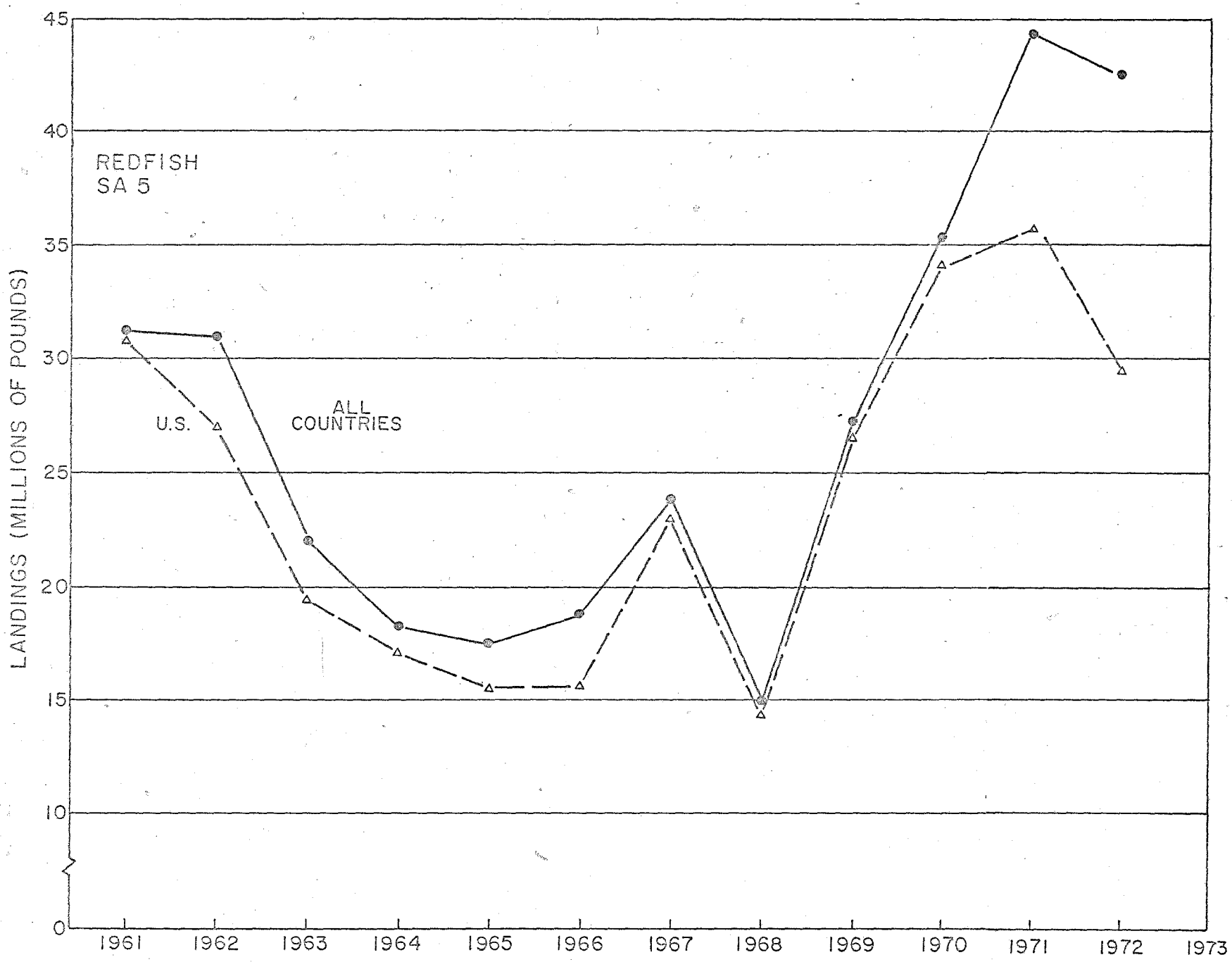

HADDOCK
SA5
LANDINGS (MILLIONS OF POUNDS)
350
300
250
200
150
100
50
0
ALL
COUNTRIES
U.S.
CANADA
USSR
1961
1962
1963
1964
1965
1966
1967
1968
1969
1970
1971
1972
1973

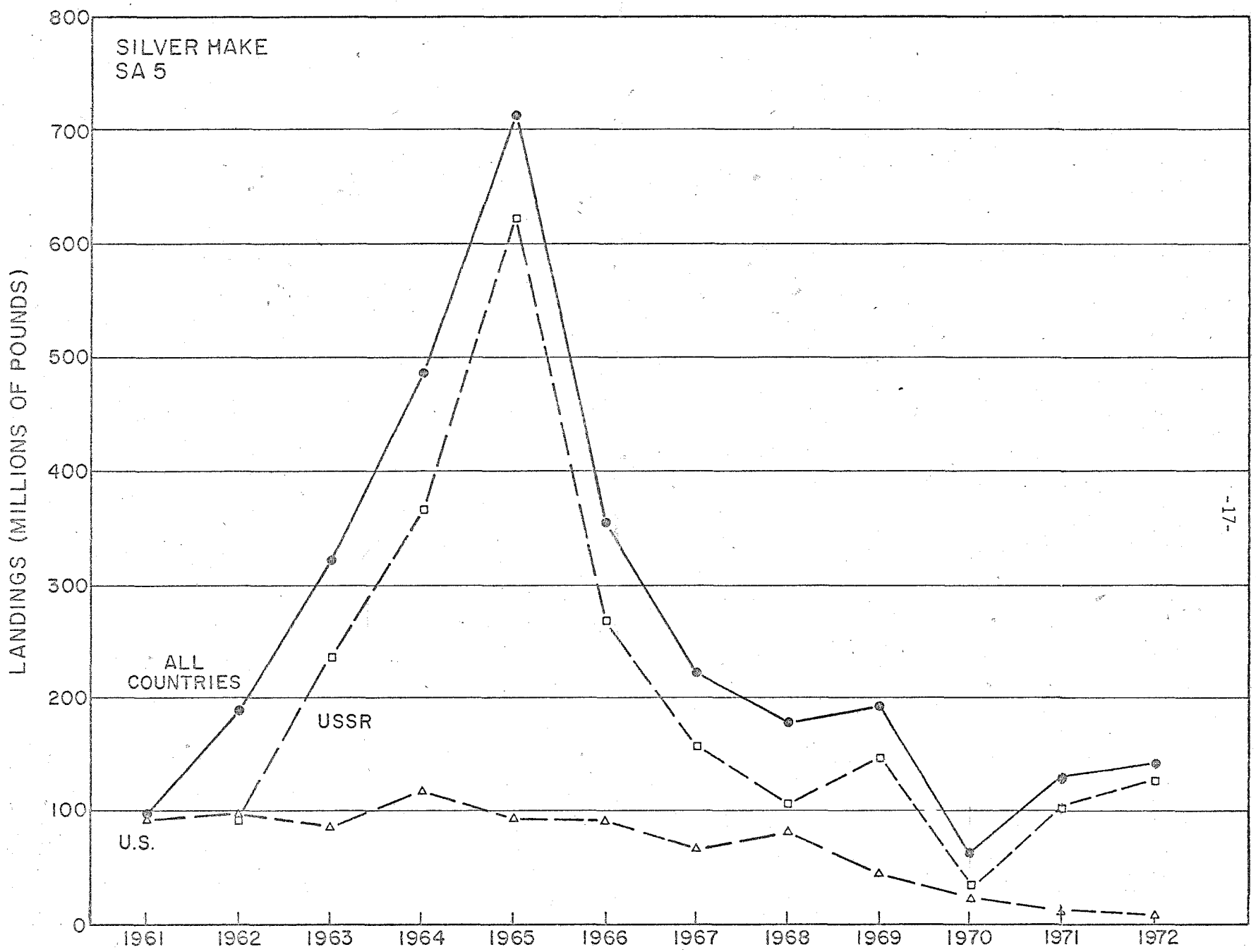

GEORGES BANK HADDOCK
SECOND QUARTER
LANDINGS/STANDARD DAYS FISHED (THOUSANDS OF POUNDS)
14
13
12
11
10
9
8
7
4
3
1962
1963
1964
1965
1966
1967
1968
1969
1970
1971
1972
1973

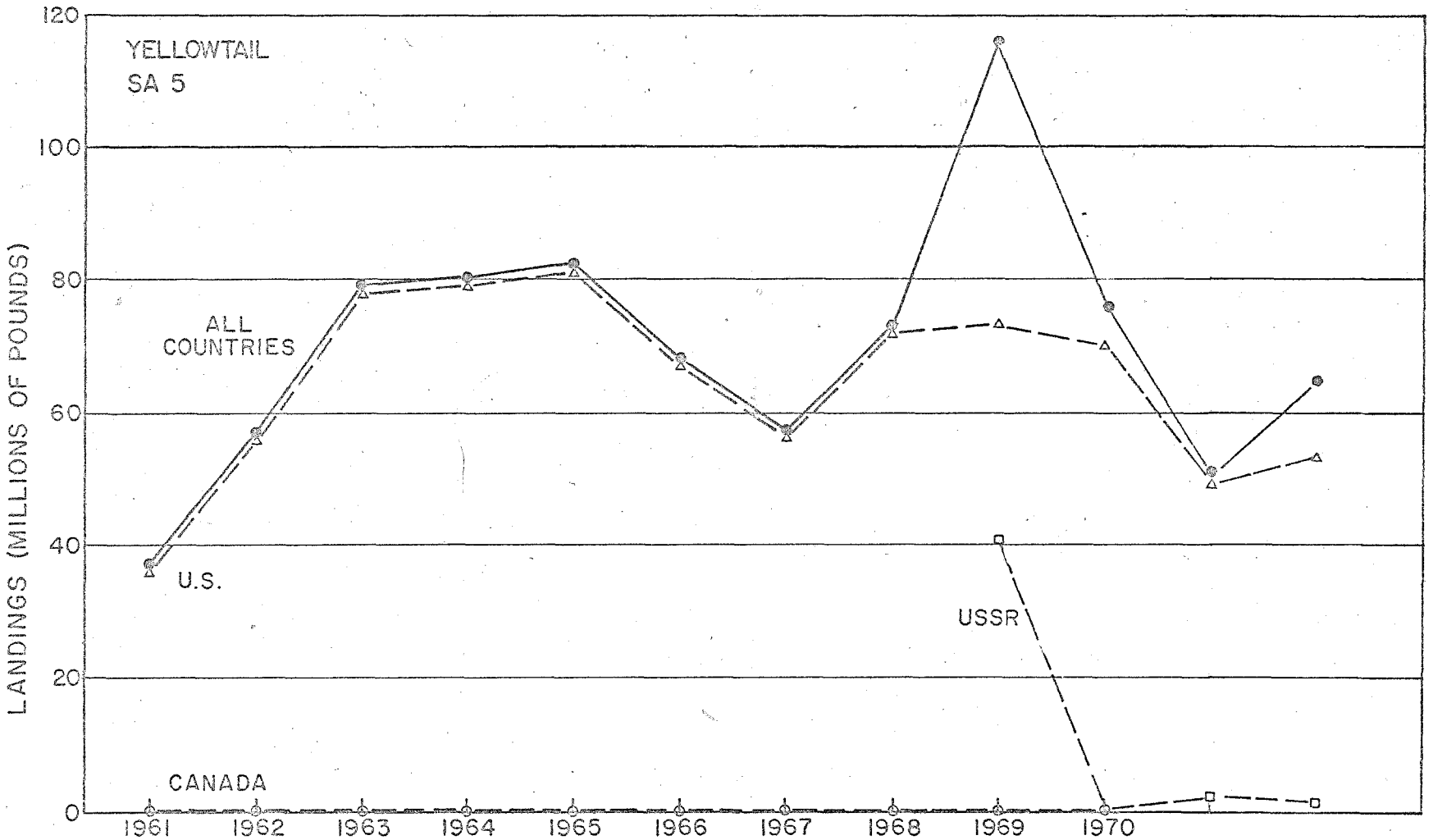

COD
SA 5
ALL
COUNTRIES
U.S.
CANADA
USSR
140
120
100
80
60
40
20
0
1961
1962
1963
1964
1965
1966
1967
1968
1969
1970
1971
1972
1973


COD
SA 4
ALL
COUNTRIES
CANADA
USSR
U.S.
LANDINGS (MILLIONS OF POUNDS)
600
500
400
300
200
100
0
1961
1962
1963
1964
1965
1966
1967
1968
1969
1970
1971
1972
1973

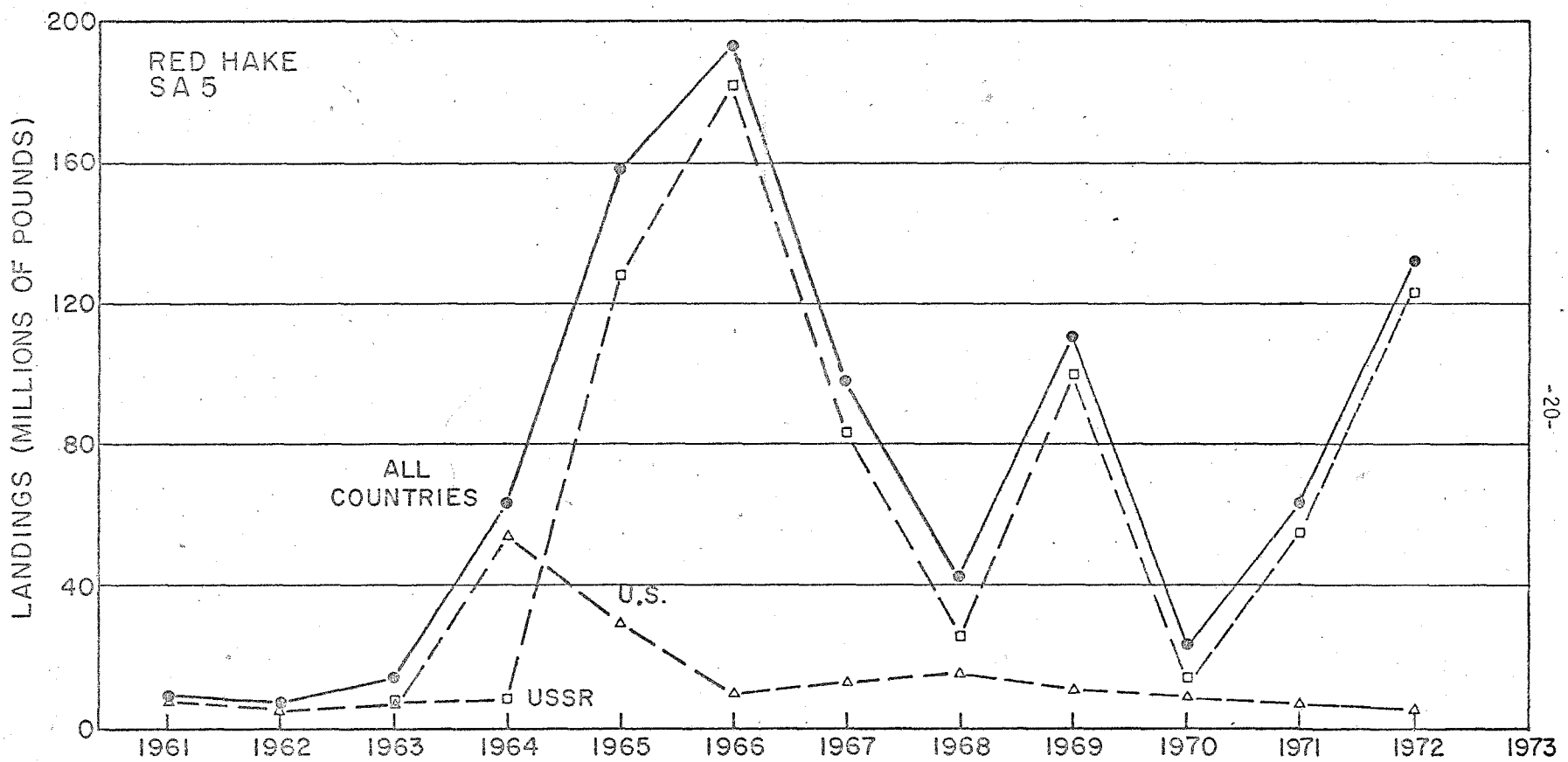

REDFISH
SA 4
LANDINGS (MILLIONS OF POUNDS)
320
280
240
200
160
120
80
40
0
ALL COUNTRIES
U.S.
CANADA
1961
1962
1963
1964
1965
1966
1967
1968
1969
1970
1971
1972
1973

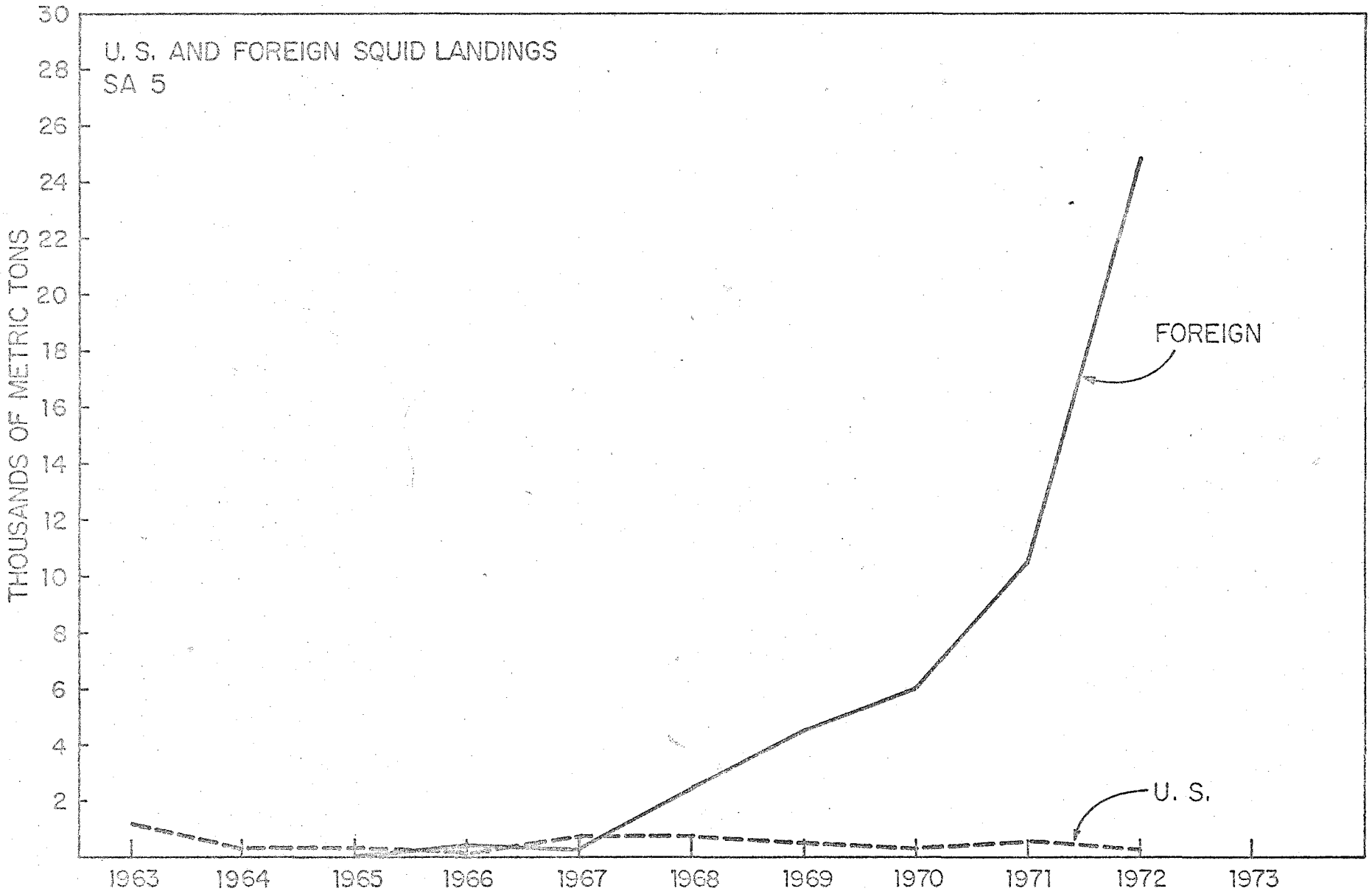

REDFISH
SA 5
U.S.
ALL
COUNTRIES
LANDINGS (MILLIONS OF POUNDS)
45
40
35
30
25
20
15
10
0
1961
1962
1963
1964
1965
1966
1967
1968
1969
1970
1971
1972
1973

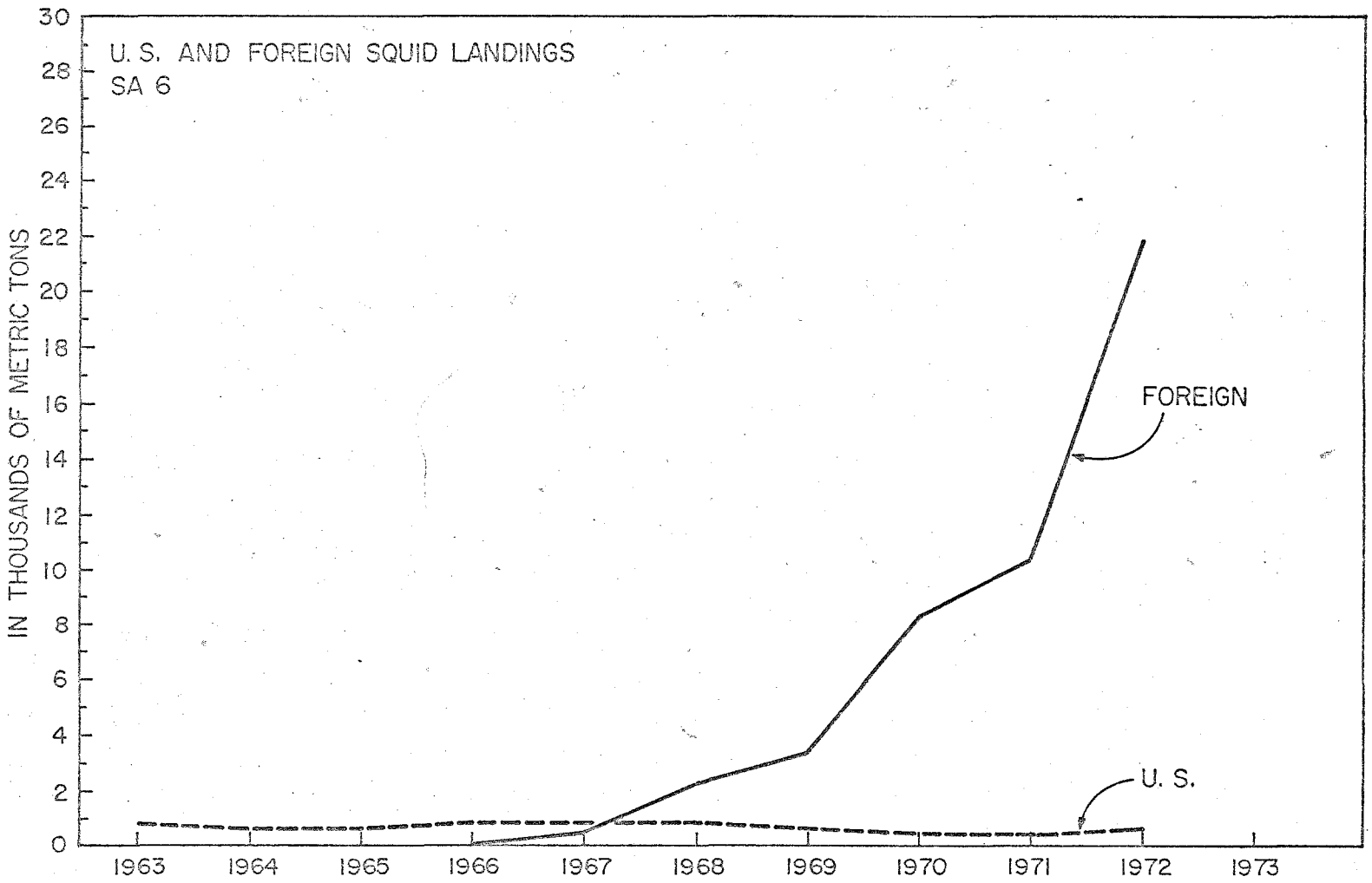

SILVER HAKE
SA 5
LANDINGS (MILLIONS OF POUNDS)
800
700
600
500
400
300
200
100
0
ALL COUNTRIES
USSR
U.S.
1961
1962
1963
1964
1965
1966
1967
1968
1969
1970
1971
1972


YELLOWTAIL
SA 5
LANDINGS (MILLIONS OF POUNDS)
120
100
80
60
40
20
0
ALL
COUNTRIES
U.S.
USSR
CANADA
1961
1962
1963
1964
1965
1966
1967
1968
1969
1970

HERRING
SA 5
ALL
COUNTRIES
USSR
U.S.
CANADA
LANDINGS (MILLIONS OF POUNDS)
900
750
600
450
300
150
0
1961
1962
1963
1964
1965
1966
1967
1968
1969
1970
1971
1972
1973


RED HAKE
SA 5
LANDINGS (MILLIONS OF POUNDS)
200
160
120
80
40
0
ALL
COUNTRIES
U.S.
USSR
1961
1962
1963
1964
1965
1966
1967
1968
1969
1970
1971
1972
1973


U. S. AND FOREIGN SQUID LANDINGS
SA 5
THOUSANDS OF METRIC TONS
30
28
26
24
22
20
18
16
14
12
10
8
6
4
2
1963
1964
1965
1966
1967
1968
1969
1970
1971
1972
1973
FOREIGN
U. S.


U. S. AND FOREIGN SQUID LANDINGS
SA 6
IN THOUSANDS OF METRIC TONS
30
28
26
24
22
20
18
16
14
12
10
8
6
4
2
0
1963
1964
1965
1966
1967
1968
1969
1970
1971
1972
1973
FOREIGN
U. S.

SECTION II

1972 Landings from the ICNAF Convention Area

Preliminary 1972 nominal catch data have been released by ICNAF (Table 7).

Total landings of all species during 1972 in the Convention area were 3.16 million metric tons, a decrease of 3.8% compared to 1971. Total landings of groundfish and flounders in 1972 were 2.03 million metric tons, also a 3.8% decrease from the 1971 value.

Total landings of groundfish and flounders from Subarea 5 were 212,484 metric tons, a 23% decrease from the 1971 level.

Finfish and squid landings (exclusive of menhaden, billfishes, tunas, and sharks) from subareas 5 and 6 in 1972 were 1.14 million metric tons, a 1.6% decrease from the 1971 level.

Trends in fishing effort and catch for the years 1961-1972 for domestic and foreign fleets are presented in Figures 2-13.

Table 7

LANDINGS IN THE ICNAF CONVENTION AREA FOR 1972 BY COUNTRY

AND FOR DIVISIONS MOST COMMONLY FISHED BY THE U.S.

(Landings in metric tons, live wt.)

Country and Species	4RST Gulf of St. Lawrence	4VW Nova Scotian	4X Shelf	Total Subarea 4	5Y Gulf of Maine	5Ze Georges Bank	5Zw Southern New England	Total Subarea 5	Total Convention Area Subareas 1-5
Cod									
Canada	64317	33844	20479	118640	52	2541	5	2598	218796
Germany (FR)					13		4	17	46937
Denmark									23402
Norway									39332
Poland		1		1		159	15	174	42159
Portugal	8977	3894		12871					129705
Romania						14		14	2710
Spain	1694	35436	1547	39254		5666	1034	6700	218156
U.S.S.R.		4646	30	4676	11	1773	53	1837	178031
U.K.	612	568		1180					13295
U.S.A.		342	323	665	6564	12478	662	19704	20369
Germany (DR)		35		35	65	47	15	127	27470
Bulgaria						53	21	74	270
Cuba		1		1		1	1	2	3
Total [1]	89829	96385	22381	208595	6705	22827	1811	31343	1036370
Haddock									
Canada	242	2879	12570	15691	23	609		632	17148
Spain		1468	470	1949		1097		1097	5594
U.S.S.R.		106	10	116	4	126	11	141	599
U.S.A.		73	448	521	901	3867	3	4771	5292
Total	242	4526	13571	18277	928	5699	14	6641	28633

Table 7
(Continued)

Country and Species	4RST Gulf of St. Lawrence	4VW	4X Nova Scotian Shelf	Total Subarea 4	5Y Gulf of Maine	5Ze Georges Bank	5Zw Southern New England	Total Subarea 5	Total Convention Area Subareas 1-5
Redfish									
Canada	78935	19373	2494	100802	13	111		124	107793
Germany (FR)							3	3	3454
Germany (DR)		1560		1560	20	95	12	127	4467
Japan		2270	3	2273		15		15	3031
Poland		65		65		1		1	3182
U.S.S.R.		11085	773	11858	60	5559	20	5639	129862
U.S.A.	1111	6636	5702	13476	7150	6011		13161	26637
Total	80046	40989	8972	130034	7243	11792	35	19070	278426
Silver hake									
Japan		6	57	63		104	11	115	192
U.S.S.R.		108657	5117	113774	857	73882	19412	94151	207925
U.S.A.					5548	879	1609	8036	8036
Germany (DR)					92	110	16	218	218
Bulgaria						1914	1433	3347	3347
Cuba		171	30	201		354	474	828	1029
Total		108834	5204	114038	6497	77243	22955	106695	220747
Yellowtail									
Canada	1	853	154	1008	1	8		9	28193
Romania						32		32	32
U.S.S.R.		439	6	445	3	3809	1006	4818	17194
U.S.A.			4	4	1005	18833	4368	24206	24210
Bulgaria						298	263	561	594
Total	1	1292	164	1457	1009	22980	5637	29626	70223

Table 7
(Continued)

Country and Species	4RST Gulf of St. Lawrence	4VW Nova Scotian	4X Shelf	Total Subarea 4	5Y Gulf of Maine	5Ze Georges Bank	5Zw Southern New England	Total Subarea 5	Total Convention Area Subareas 1-5
Red hake									
Japan			2	2		185	1	186	190
U.S.S.R.		1269	119	1388	5	37960	18664	56629	58017
U.S.A.			1	1	373	160	1178	1711	1712
Bulgaria						1043	465	1508	1508
Total		1269	122	1391	378	39348	20308	80342	61427
Herring									
Canada	66698	30377	135348	232423	11638	53		11691	296691
Germany (FR)		590		590	2930	71	27633	30634	31334
Japan		607	919	1526		1159		1159	3296
Poland		28		28	100	39800	1324	41224	41252
Romania						2055	5	2060	2060
U.S.S.R.		16568	7393	23961	256	39293	4215	43764	67725
U.S.A.					38211	11	2251	40473	40473
Germany (DR)		93	91	184	8898	37603	228	46729	46913
Bulgaria						1490	749	2239	2239
Total	66698	48263	143751	258712	62033	121535	36405	219973	531983

1/ Total includes all ICNAF countries.