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All-nation Removals of Groundfish, Herring, and Shrimp from the Eastern Bering Sea and Northeast Pacific Ocean, 1964-80

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and
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ALL-NATION REMOVALS OF GROUND FISH,
HERRING, AND SHRIMP FROM THE EASTERN BERING SEA AND
NORTHEAST PACIFIC OCEAN,
1964-80

by

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BACKGROUND

Under provisions of the U.S. Fishery Conservation and Management Act of 1976 (FCMA), all foreign nations permitted to fish in the fishery conservation zone (established by the act) must report catch statistics by given statistical areas (Figure 1). Provisional reports must be submitted weekly by large statistical areas, and by May 30 of the following year, annual catch statistics must be submitted by 1° long. by 1/2° lat. areas of the fishery conservation zone (FCZ). Catches must be shown by designated species or species groups which may change from year to year as requested by the United States. These reporting requirements have led to a more uniform body of catch statistics than heretofore available.

In prior years, catch statistics, if reported at all, were often for large areas and were lacking in detail for scientific use. Forrester et al. (1978) compiled historical catch and effort statistics for the groundfish fishery of the North Pacific Ocean and included statistics for Canada, Japan, the United States, the USSR, and the Republic of Korea (ROK). Catch data of other nations fishing in the northeastern Pacific were not included. A chronology of foreign fishing activities is shown in Table 1.

In attempts to bring together recent statistics for all nations fishing in the North Pacific, Larkins (1975) compiled best estimates of catch data by statistical areas useful for scientists studying trends of various fisheries. These statistics were based on 1) reports submitted to the International North Pacific Fisheries Commission (INPFC) by Canada, Japan, and the United States; 2) from statistics submitted to the Pacific Marine Fisheries Commission; and 3) from data obtained during bilateral meetings with non-member nations of

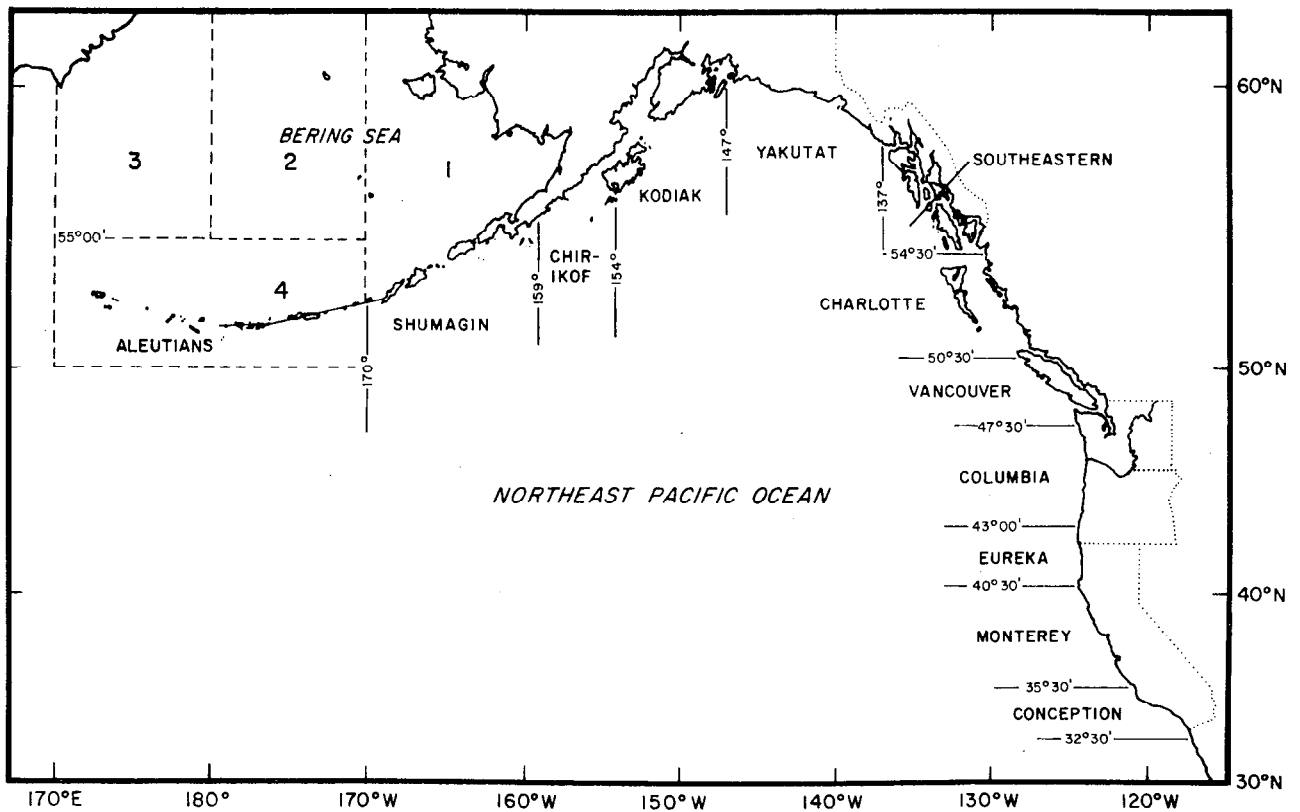


Figure 1.--Statistical areas in the U.S. fishery conservation zone in the Bering Sea and northeast Pacific Ocean.

Table 1.--Chronology of foreign fishing activities off the U.S.
Pacific Coast.

1. Japan 1/
Operated in the North Pacific-Bering Sea areas from 1930 to 1941. Fishing activities stopped during World War II. Resumed Bering Sea Fishery in 1954 and entered the Gulf of Alaska fishery and California-oregon-Washington coastal fishery in 1962.
2. U.S.S.R. 1/
Began fishing operations in 1958 in the eastern Bering Sea and in the Gulf of Alaska and in 1972 off the coasts of Washington, Oregon, and California.
3. Republic of Korea (South Korea) 1/
Began fishing operations in 1966 in the eastern Bering Sea and appeared in the Gulf of Alaska in 1972. Fishing off the coasts of California, Oregon, and Washington started in 1974.
4. Republic of China (Taiwan) 1/
Began fishing operations in the eastern Bering Sea and Gulf of Alaska in 1974. Fishing vessels were reported off the coasts of California, Oregon, and Washington in 1976 and 1977.
5. Republic of Poland 1/
Began fishing operations in 1973 in the Bering Sea (ceased in 1974), Gulf of Alaska and coasts of California, Oregon, and Washington.
6. Federal Republic of Germany (West Germany)
Some fishing activities off the coasts of California, Oregon, and Washington in the years 1974-75 but does not have catch allocation at the present time.
7. German Democratic Republic (East Germany)
Some fishing activities in the years 1973-76 but does not have catch allocation at the present time.
8. Bulgaria
Fished in 1976 but has no catch allocation at the present time.
9. Mexico 1/
Awarded catch allocation from 1978 but did not use the right to fish in 1978.

1/ Countries that were awarded catch allocations and were actively engaged in fishing in 1979.

INPFC. Other fisheries data were based on personal communication with various scientific delegations and from reports issued by the Law Enforcement Branches of the Alaska and Northwest Regional Offices of the National Marine Fisheries Service. These reports cover foreign fishing vessel sightings, boardings, and operations of the enforcement branches. Original statistics of Japanese and Soviet catches of yellowfin sole and other flounders in the Bering Sea were revised by Wakabayashi and Bakkala (1978), and these revised data were included in the compilation presented here. If the totals for the two groups differed from those originally listed, adjustments were made to totals for "other fish" in order to retain the listed grand totals for the nation/area. In 1968 area totals were revised to accommodate revised catch data on flounder.

The purpose of this statistical compilation (Tables 2-20) is to provide in a single document a summary of the best estimate of catches for the years 1964-80, by species and convenient statistical areas, of all available catch data. In addition, data from joint ventures between U.S. fishermen and processing vessels of ROK, Poland, and the USSR are compiled in Tables 18 and 20. This kind of fishery, whereby U.S. vessels delivered catches to foreign processing vessels, started in 1979. The data are not reported as foreign catches nor are they reported as domestic landings. The sources of the 1977-78 data are the annual submissions by foreign nations permitted to fish in the U.S. fishery conservation zone and from records provided by Canada and the various states which report U.S. catch statistics. The 1979-80 data on foreign catches in the FCZ are provisional estimates of the catch based in part on U.S. observer data. The data from Canada for 1979-80 and the United States for 1978-80 are incomplete. It is intended that the provisional catch statistics be updated with official records in future years, as appropriate.

REFERENCES

- Forrester, C. R., A. J. Beardsley, and Y. Takashi. 1978. Groundfish, shrimp and herring fisheries in the Bering Sea and northeast Pacific -- historical catch statistics through 1970. Int. North Pac. Fish. Comm., Bull. 37, 147p.
- Larkins, H. A. 1975. All-nation removals of groundfish and herring from the eastern Bering Sea and northeastern Pacific Ocean, 1967-73. Unpubl. manuscr., 12 p. Northwest and Alaska Fish. Cent., Natl. Mar. Fish. Serv., NOAA, 2725 Montlake Blvd. E., Seattle, WA 98112,
- Wakabayashi, K., and R. Bakkala. 1978. Estimated catches of flounders by species in the Bering Sea -- updated through 1976. Unpubl. manuscr., 14 p. Northwest and Alaska Fish. Cent., Natl. Mar. Fish. Serv., NOAA, 2725 Montlake Blvd. E., Seattle, WA 98112. (Submitted to Int. North Pac. Fish. Comm. as INPFC Doc. 2114).

Table 2.--All-nation catches of groundfish and associated species, 1964.

Region and species	US	Canada	Japan	USSR ^{1/}	Total
<u>Bering Sea</u>					
<u>Aleutian</u>					
Walleye pollock	-	-	175,339	-	175,339
Pacific halibut	648	758	2,282	-	3,688
Yellowfin sole	-	-	51,473	79,000	79,000
Other flounders	-	-	50,074		
Pacific ocean perch	-	-	43,010	76,000	119,010
Other rockfish	-	-	-	-	-
Sablefish	-	-	6,440	-	6,440
Pacific cod	-	-	19,078	-	19,078
Atka mackerel	-	-	-	-	-
Molluscs	-	-	-	-	-
Pacific herring	-	-	42,459	175,000	217,459
Shrimp	-	-	20,475	-	20,475
Others	-	-	1,498	-	1,498
Total	648	758	412,128	330,000	743,534
<u>Gulf of Alaska</u>					
Walleye pollock	-	-	1,127	-	1,127
Pacific halibut	14,041	13,299	-	-	27,340
Other flounders	158	-	870	-	1,028
Pacific ocean perch	-	-	13,389	230,000 ^{2/}	243,389
Other rockfish	-	5	-	-	5
Sablefish	-	238	1,057	-	1,295
Pacific cod	2	-	194	-	196
Atka mackerel	-	-	-	-	-
Squid	-	-	-	-	-
Pacific herring	21,462	-	-	-	21,462
Shrimp	3,502	-	2,371	4,000 ^{2/}	9,873
Others	4	3	817	-	824
Total	39,169	13,545	19,825	234,000 ^{2/}	306,539
<u>Washington-</u>					
<u>California</u>					
Pacific whiting	-	-	-	-	-
Pacific halibut	63	-	-	-	63
Other flounders	13,558	-	-	-	13,558
Pacific ocean perch	3,940	-	-	-	3,940
Other rockfish	-	-	-	-	-
Sablefish	808	-	-	-	808
Jack mackerel	-	-	-	-	-
Shrimp	2,865	-	-	-	2,865
Others	4,263	-	-	-	4,263
Total	25,497	-	-	-	25,497
Total off U.S.	65,314	14,303	431,953	564,000	1,075,570

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Table 2.--All-nation catches of groundfish and associated species, 1964--Cont.

Region and species	us	Canada	Japan	USSR ^{1/}	Total
<u>British Columbia</u>					
Pacific whiting	-	-	-	-	-
Pacific halibut	1,073	6,185	-	-	7,258
Other flounders	4,811	2,838	-	-	7,649
Pacific ocean Perch	5,555	471	-	-	6,026
Other rockfish	-	453	-	-	453
Sablefish	132	400	-	-	532
Pacific herring	-	213,703 ^{3/}	-	-	213,703
Shrimp	1,560	427	-	-	1,987
Others	6,476	12,138	-	-	18,614
Total	19,607	236,615	-	-	256,222
Grand total	84,921	250,918	431,953	564,000	1,331,792

1/ Data from Int. North Pac. Fish. Comm.

2/ For the entire N.E. Pacific region.

3/ Caught in the 1964-65 season.

Table 3.--All-nation catches of groundfish and associated species, 1965.^a

Region and species	us	Canada	Japan	USSR	Total
<u>Bering Sea</u>					
<u>Aleutian</u>					
Walleye pollock	-	-	231,276	-	231,276
Pacific halibut	449	356	2,947	-	3,752
Yellowfin sole	-	-	27,874	35,000	} 77,096
Other flounders	-	-	14,222		
Pacific ocean perch	-	-	46,461	80,000	126,461
Other rockfish	-	-	614	-	614
Sablefish	-	-	7,860	-	7,860
Pacific cod	-	-	17,348	-	17,348
Atka mackerel	-	-	9	-	9
Molluscs	-	-	-	-	-
Pacific herring	-	-	35,555	-	35,555
Shrimp	-	-	8,840	-	8,840
Others	-	-	3,452	-	3,452
Total	449	356	396,458	115,000	512,263
<u>Gulf of Alaska</u>					
Walleye pollock	-	-	2,787	-	2,787
Pacific halibut	17,545	13,423	-	-	30,968
Other flounders	14	-	4,713	-	4,727
Pacific ocean perch	-	-	43,213	340,000 ^{1/}	383,213
Other rockfish	-	4	-	-	4
Sablefish	-	194	2,255	-	2,449
Pacific cod	-	-	599	-	599
Atka mackerel	-	-	-	-	-
Squid	-	-	-	-	-
Pacific herring	11,626	-	-	-	11,626
Shrimp	7,174	-	84	7,000 ^{1/}	14,258
Others	-	2	553	-	555
Total	36,359	13,623	54,204	347,000 ^{1/}	451,186
<u>Washington-</u>					
<u>California</u>					
Pacific whiting	in others	-	-	-	-
Pacific halibut	59	-	-	-	59
Other flounders	13,532	-	-	-	13,532
Pacific ocean perch	6,146	-	-	-	6,146
Other rockfish	5,288	-	-	-	5,288
Sablefish	906	-	-	-	906
Jack mackerel	-	-	-	-	-
Shrimp	1,120	-	-	-	1,120
Others	4,734	-	-	-	4,734
Total	31,785	-	-	-	31,785
Total off U.S.	68,593	13,979	450,662	462,000	995,234

Table 3.--All-nation catches of groundfish and associated species, 1965--Cont.

Region and species	us	Canada	Japan	USSR	Total
----- metric tons -----					
<u>British Columbia</u>					
Pacific whiting	333	-	-	-	333
Pacific halibut	1,207	6,082	-	-	7,289
Other flounders	4,996	3,132	-	-	8,128
Pacific ocean Perch	6,585	1,395	-	-	7,980
Other rockfish	2,999	383	-	-	3,382
Sablefish	86	456	-	-	542
Pacific herring	3,460	165,010 ^{2/}	-	-	168,470
Shrimp	-	793	-	-	793
Others	9,154	15,750	-	-	24,904
Total	<u>28,820</u>	<u>193,001</u>	<u>-</u>	<u>-</u>	<u>221,821</u>
Grand total	97,413	206,980	450,662	462,000	1,217,055

^{1/} Catch is for the entire N.E. Pacific area.

^{2/} Caught in the 1965-66 season.

Table 4.--All-nation catches of groundfish and associated species, 1966.

Region and species	us	Canada	Japan	USSR	ROK ^{1/}	Total
	----- metric tons -----					
<u>Bering Sea</u>						
<u>Aleutian</u>						
Walleye pollock	-	-	263,085	-	-	263,085
Pacific halibut	336	429	3,214	-	-	3,979
Yellowfin sole	-	-	45,505	71,000	-	138,140
Other flounders	-	-	21,635			
Pacific ocean perch	-	-	43,375	29,000	-	72,375
Other rockfish	-	-	2,863	-	-	2,863
Sablefish	-	-	13,534	-	-	13,534
Pacific cod	-	-	19,040	-	-	19,040
Atka mackerel	-	-	-	-	-	-
Molluscs	-	-	-	-	-	-
Pacific herring	-	-	27,503	-	-	27,503
Shrimp	-	-	2,760	-	-	2,760
Others	-	-	3,116	-	-	3,116
Total	336	429	445,630	100,000	-	546,395
<u>Gulf of Alaska</u>						
Walleye pollock	-	-	9,060	-	-	9,060
Pacific halibut	16,763	13,111	-	-	-	29,874
Other flounders	5	-	4,932	-	-	4,937
Pacific ocean perch	-	1	68,976	83,000	-	151,977
Other rockfish	-	1	-	-	-	1
Sablefish	-	335	3,785	-	-	4,120
Pacific cod	-	-	1,376	-	-	1,376
Atka mackerel	-	-	-	-	-	-
Squid	-	-	-	-	-	-
Pacific herring	7,957	-	-	-	-	7,957
Shrimp	12,785	-	474	10,000	-	23,259
Others	-	1	800	-	-	801
Total	37,510	13,449	89,403	93,000	-	233,362
<u>Washington-</u>						
<u>California</u>						
Pacific whiting	1,031	-	-	128,000	-	129,031
Pacific halibut	49	-	-	-	-	49
Other flounders	14,672	-	1	-	-	14,673
Pacific ocean perch	1,711	-	44	41,000	-	42,755
Other rockfish	6,174	-	-	-	-	6,174
Sablefish	971	-	-	-	-	971
Jack mackerel	-	-	-	-	-	-
Shrimp	2,283	-	-	-	-	2,283
Others	3,662	-	91	-	-	3,753
Total	30,553	-	136	169,000	-	199,689
Total off U.S.	68,399	13,878	535,169	362,000	-	

Table 4.--All-nation catches of groundfish and associated species, 1966--Cont.

Region and species	us	Canada	Japan	USSR	ROK ^{1/}	Total
----- metric tons -----						
<u>British Columbia</u>						
Pacific whiting	4,098	-	-	-	-	4,098
Pacific halibut	1,021	5,699	-	-	-	6,720
Other flounders	4,323	4,951	490	-	-	9,764
Pacific ocean Perch	8,247	2,366	3,207	33,000	-	46,820
Other rockfish	4,318	329	-	-	-	4,647
Sablefish	114	635	177	-	-	926
Pacific herring	1,745	123,259 ^{2/}	-	-	-	125,004
Shrimp	-	763	-	-	-	763
Others	9,761	18,476	1,337	-	-	29,574
Total	<u>33,627</u>	<u>156,478</u>	<u>5,211</u>	<u>33,000</u>	<u>-</u>	<u>228,316</u>
Grand total	102,026	170,356	540,380	395,000	-	1,207,762

1/ First year of operation. Catch figures not available.

2/ Caught in the 1966-67 season.

Table 5.--All-nation catches of groundfish and associated species, 1967.

Region and species	US	Canada	Japan	USSR	ROK	Total
----- metric tons -----						
<u>Bering Sea</u>						
<u>Aleutian</u>						
Walleye pollock	-	-	552,897	-	5	552,902
Pacific halibut	785	669	5,733	53	-	7,240
Yellowfin sole	-	-	58,700	122,586	-	181,286
Other flounders	-	-	36,743	-	-	36,743
Pacific ocean perch	-	-	27,313	46,570	-	73,883
Other rockfish	-	-	6,562	-	-	6,562
Sablefish	-	-	14,891	274	-	15,165
Pacific cod	-	-	33,517	-	-	33,517
Atka mackerel	-	-	-	-	-	-
Molluscs	-	-	-	-	-	-
Pacific herring	-	-	33,275	-	-	33,275
Shrimp	-	-	3,302	-	-	3,302
Others	-	-	6,791	8,179	-	14,970
Total	785	669	779,724	177,662	5	958,845
<u>Gulf of Alaska</u>						
Walleye pollock	-	-	6,480	-	-	6,480
Pacific halibut	16,284	9,394	-	-	-	25,678
Other flounders	-	-	4,552	-	-	4,552
Pacific ocean perch	-	-	57,558	66,485	-	124,191
Other rockfish	-	-	148	-	-	148
Sablefish	-	199	4,996	-	-	5,195
Pacific cod	4	1	2,220	-	-	2,225
Atka mackerel	-	-	-	-	-	-
Squid	-	-	-	-	-	-
Pacific herring	5,008	-	-	-	-	5,008
Shrimp	18,963	-	254	11,000	-	30,217
Others	26	1	2,396	10,452	-	12,875
Total	40,285	9,595	78,604	87,937	-	216,421
<u>Washington-</u>						
<u>California</u>						
Pacific whiting	7,436	-	-	195,092	-	202,528
Pacific halibut	45	-	-	-	-	45
Other flounders	13,060	-	414	-	-	13,474
Pacific ocean perch	698	-	5,006	37,611	-	49,444
Other rockfish	5,545	-	584	-	-	6,129
Sablefish	662	-	1,310	-	-	1,972
Jack mackerel	-	-	-	-	-	-
Shrimp	5,130	-	-	-	-	5,130
Others	4,044	-	3,329	3,974	-	11,347
Total	36,620	-	10,643	236,677	-	283,940
Total off U.S.	77,690	10,264	868,971	502,276	5	1,459,206

Table 5.--All-nation catches of groundfish and associated species, 1967--Cont.

Region and species	us	Canada	Japan	USSR	ROK	Total
	----- metric tons -----					
<u>British Columbia</u>						
Pacific whiting	5,489	-	-	11,260	-	16,749
Pacific halibut	852	5,323	-	-	-	6,175
Other flounders	4,469	4,280	939	-	-	9,688
Pacific ocean Perch	6,193	391	12,878	6,575	-	} 29,665
Other rockfish	3,104	352	172	-	-	
Sablefish	84	392	1,192	-	-	1,668
Pacific herring	2,575	18,084 ^{1/}	-	-	-	20,659
Shrimp	2	769	-	-	-	771
Others	9,024	13,650	2,672	3,538	-	28,884
Total	<u>31,792</u>	<u>43,241</u>	<u>17,853</u>	<u>21,373</u>	-	<u>114,259</u>
Grand total	109,482	53,505	886,824	523,649	5	1,573,465

1/ Caught in the 1967-68 season.

Table 6.--All-nation catches of groundfish and associated species, 1968.

Region and species	us	Canada	Japan	USSR	ROK	Total
----- metric tons -----						
<u>Bering Sea</u>						
<u>Aleutian</u>						
Walleye pollock	-	-	706,339	-	1,200	707,539
Pacific halibut	394	407	4,943	305	-	6,049
Yellowfin sole	-	-	31,387	-	-	31,387
Other flounders	-	-	37,865	72,039	-	109,904
Pacific ocean perch	-	-	42,929	-	-	42,929
Other rockfish	-	-	11,449	29,671	-	41,120
Sablefish	-	-	15,228	4,256	-	19,484
Pacific cod	-	-	63,865	-	-	63,865
Atka mackerel	-	-	-	-	-	-
Molluscs	-	-	-	-	-	-
Pacific herring	-	-	44,428	22,255	-	66,683
Shrimp	-	-	12,701	27,704	-	40,405
Others	-	-	4,105	-	-	4,105
Total	394	407	975,239	156,230	1,200	1,133,470
<u>Gulf of Alaska</u>						
Walleye pollock	-	-	6,164	-	-	6,164
Pacific halibut	10,505	11,809	-	-	-	22,314
Other flounders	4	-	3,389	-	-	3,393
Pacific ocean perch	-	-	54,970	45,186	-	101,241
Other rockfish	-	4	1,081	-	-	1,085
Sablefish	-	128	14,767	-	-	14,895
Pacific cod	3	-	1,043	-	-	1,046
Atka mackerel	-	-	-	-	-	-
Squid	-	-	-	-	-	-
Pacific herring	3,073	-	-	-	-	3,073
Shrimp	19,046	-	1,319	3,000	-	23,365
Others	39	3	2,089	14,236	-	16,367
Total	32,670	11,944	84,822	62,422	-	191,858
<u>Washington-</u>						
<u>California</u>						
Pacific whiting	-	-	-	67,896	-	67,896
Pacific halibut	31	-	-	-	-	31
Other flounders	12,816	-	71	-	-	12,887
Pacific ocean perch	346	-	3,346	16,251	-	25,225
Other rockfish	5,056	-	226	-	-	5,282
Sablefish	665	-	421	-	-	1,086
Jack mackerel	-	-	-	-	-	-
Shrimp	6,424	-	-	-	-	6,424
Others	3,365	-	612	8,389	-	12,366
Total	28,703	-	4,676	92,536	-	125,915
<u>Total off U.S.</u>	<u>61,767</u>	<u>12,351</u>	<u>1,064,737</u>	<u>311,188</u>	<u>1,200</u>	<u>1,451,243</u>

Table 6.--All-nation catches of groundfish and associated species, 1968--Cont.

Region and species	US	Canada	Japan	USSR	ROK	Total
	----- metric tons -----					
<u>British Columbia</u>						
Pacific whiting	4,173	-	-	35,804	-	39,977
Pacific halibut	644	5,529	-	-	-	6,173
Other flounders	4,668	4,656	857	-	-	10,181
Pacific ocean Perch	5,725	876	14,784	7,306	-	} 35,905
Other rockfish	5,080	434	1,700	-	-	
Sablefish	74	449	2,402	-	-	2,925
Pacific herring	2,434	1,485 ^{1/}	-	-	-	3,919
Shrimp	-	711	-	-	-	711
Others	3,365	13,712	1,025	11,025	-	29,127
Total	<u>26,163</u>	<u>27,852</u>	<u>20,768</u>	<u>54,135</u>	<u>-</u>	<u>128,918</u>
Grand total	87,930	40,203	1,086,225	365,323	1,200	1,580,161

1/ Caught in the 1968-69 season.

Table 7.--All-nation catches of groundfish and associated species, 1969.

Region and species	us	Canada	Japan	USSR	ROK	Total
----- metric tons -----						
<u>Bering Sea</u>						
<u>Aleutian</u>						
Walleye pollock	-	-	831,400	34,297	11,270	876,967
Pacific halibut	394	403	5,167	336	-	6,300
Yellowfin sole	-	-	83,384	-	-	83,384
Other flounders	-	-	40,156	120,312	-	160,468
Pacific ocean perch	-	-	30,894	23,172	-	56,453
Other rockfish	-	-	2,387	-	-	
Sablefish	-	-	18,783	1,579	-	20,362
Pacific cod	-	-	53,300	-	-	53,300
Atka mackerel	-	-	2	-	-	2
Molluscs	-	-	38	-	-	38
Pacific herring	-	-	36,389	94,491	-	130,880
Shrimp	-	-	9,525	-	-	9,525
Others	-	-	7,581	7,004	-	14,585
Total	394	403	1,119,006	231,191	11,270	1,412,264
<u>Gulf of Alaska</u>						
Walleye pollock	-	-	17,553	-	56	17,609
Pacific halibut	13,937	12,550	-	-	-	26,487
Other flounders	7	-	2,623	-	-	2,630
Pacific ocean perch	-	-	53,639	18,824	-	74,126
Other rockfish	-	-	1,439	-	224	
Sablefish	-	72	18,891	-	-	18,963
Pacific cod	21	-	1,314	-	-	1,335
Atka mackerel	-	-	-	-	-	-
Squid	-	-	-	-	-	-
Pacific herring	5,956	-	-	-	-	5,956
Shrimp	21,523	-	-	5,000	-	26,523
Others	24	4	1,834	1,191	-	3,053
Total	41,468	12,626	97,293	25,015	280	176,682
<u>Washington-</u>						
<u>California</u>						
Pacific whiting	-	-	98	109,225	-	109,323
Pacific halibut	43	-	-	-	-	43
Other flounders	15,549	-	64	-	-	15,523
Pacific ocean perch	303	-	70	2,623	-	8,479
Other rockfish	5,470	-	13	-	-	
Sablefish	1,039	-	905	-	-	1,944
Jack mackerel	-	-	-	-	-	-
Shrimp	6,634	-	-	-	-	6,634
Others	3,223	-	51	3,077	-	6,351
Total	32,171	-	1,201	114,925	-	148,297
Total off U.S.	74,033	13,029	1,217,500	421,131	11,550	1,737,243

Table 7.--All-nation catches of groundfish and associated species, 1969--Cont.

Region and species	us	Canada	Japan	USSR	ROK	Total
----- metric tons -----						
<u>British Columbia</u>						
Pacific whiting	3,758	-	21	52,792	-	56,571
Pacific halibut	566	7,262	-	-	-	7,828
Other flounders	3,857	4,869	731	-	-	9,457
Pacific ocean Perch	5,706	1,504	11,689	1,607	-	30,901
Other rockfish	8,050	935	1,410	-	-	-
Sablefish	62	318	4,728	-	-	5,108
Pacific herring	3,301	3,214 ^{1/}	-	-	-	6,515
Shrimp	103	857	-	-	-	960
Others	5,496	11,709	1,059	18,519	-	36,783
Total	<u>30,899</u>	<u>30,668</u>	<u>19,638</u>	<u>72,918</u>	<u>-</u>	<u>154,123</u>
Grand total	104,932	43,697	1,237,138	494,049	11,550	1,891,366

^{1/} Caught in the 1969-70 season.

Table 8.--All-nation catches of groundfish and associated species, 1970.

Region and species	us	Canada	Japan	USSR	ROK	Total
-----metric tons-----						
<u>Bering Sea</u>						
<u>Aleutian</u>						
Walleye pollock	-	-	1,231,644	45,080	4,620	1,281,344
Pacific halibut	178	428	6,218	164	-	6,988
Yellowfin sole	-	-	59,970	114,931	-	233,247
Other flounders	-	-	58,346	-	-	116,716
Pacific ocean perch	-	-	22,756	53,274	-	76,030
Other rockfish	-	-	3,072	-	-	3,072
Sablefish	-	-	11,363	2,874	-	14,237
Pacific cod	-	-	74,613	-	-	74,613
Atka mackerel	-	-	1	-	-	1
Molluscs	-	-	107	-	-	107
Pacific herring	-	-	28,349	117,202	-	145,551
Shrimp	-	-	140	-	-	140
Others	-	-	17,175	15,558	-	32,733
Total	178	428	1,513,754	349,083	4,620	1,868,063
<u>Gulf of Alaska</u>						
Walleye pollock	-	-	9,343	in others	-	9,343
Pacific halibut	14,984	11,066	-	in others	-	26,050
Other flounders	1	3	3,768	in others	-	3,772
Pacific ocean perch	484	3	44,381	in others	-	44,868
Other rockfish	-	1	745	in others	-	746
Sablefish	13	68	24,384	-	-	24,465
Pacific cod	14	30	1,761	-	-	1,805
Atka mackerel	-	-	-	-	-	-
Squid	-	-	-	-	-	-
Pacific herring	7,473	-	6	-	-	7,479
Shrimp	33,719	-	-	4,000	-	37,719
Others	251	13	913	9,336	-	10,513
Total	56,939	11,184	85,301	13,336	-	166,760
<u>Washington-</u>						
<u>California</u>						
Pacific whiting	-	-	1,400	200,754	-	202,154
Pacific halibut	28	-	-	-	-	28
Other flounders	16,393	63	-	in others	-	16,456
Pacific ocean perch	306	6	22	2,621	-	8,539
Other rockfish	5,556	-	28	-	-	5,584
Sablefish	1,358	3	139	-	-	1,500
Jack mackerel	-	-	-	980	-	980
Shrimp	8,213	-	-	-	-	8,213
Others	2,436	1	3	7,226	-	9,666
Total	34,290	73	1,592	211,581	-	247,536
<u>Total off U.S.</u>	<u>91,407</u>	<u>11,685</u>	<u>1,600,647</u>	<u>574,000</u>	<u>4,620</u>	<u>2,282,359</u>

Table 8.--All-nation catches of groundfish and associated species, 1970--Cont.

Region and species	us	Canada	Japan	USSR	ROK	Total
	----- metric tons -----					
<u>British Columbia</u>						
Pacific whiting	3,948	-	877	25,491	-	30,316
Pacific halibut	362	5,956	-	-	-	6,318
Other flounders	2,795	5,477	451	-	-	8,723
Pacific ocean Perch	5,970	2,096	7,154	186	-	} 22,467
Other rockfish	5,662	930	469	-	-	
Sablefish	73	259	5,154	-	-	5,486
Pacific herring	1,499	5,192 ^{1/}	-	-	-	6,691
Shrimp	271	698	1	-	-	970
Others	4,104	7,228	606	-	-	11,938
Total	24,684	27,836	14,712	25,677	-	92,909
Grand total	116,091	39,521	1,615,359	599,677	4,620	2,375,268

1/ Caught in the 1970-71 season.

Table 9.--All-nation catches of groundfish and associated species, 1971.

Region and species	us	Canada	Japan	USSR	ROK	Total
-----metric tons-----						
<u>Bering Sea</u>						
<u>Aleutian</u>						
Walleye pollock	-	-	1,514,830	236,046	10,000	1,760,876
Pacific halibut	63	331	7,704	349	-	8,447
Yellowfin sole	-	-	83,595	142,654	-	} 302,174
Other flounders	-	-	75,925	-	-	
Pacific ocean perch	-	-	24,589	7,190	-	} 34,004
Other rockfish	-	-	2,225	-	-	
Sablefish	-	-	16,155	3,000	-	19,155
Pacific cod	-	-	46,357	-	-	46,357
Atka mackerel	-	-	166	-	-	166
Molluscs	-	-	41	-	-	41
Pacific herring	18	-	23,262	23,000	-	46,280
Shrimp	-	-	6,726	-	-	6,726
Others	-	-	30,807	8,238	-	39,045
Total	81	331	1,832,382	420,477	10,000	2,263,271
<u>Gulf of Alaska</u>						
Walleye pollock	-	-	9,018	440	-	9,458
Pacific halibut	9,103	7,059	-	in others	-	16,162
Other flounders	-	-	2,370	in others	-	2,370
Pacific ocean perch	20	-	47,807	29,700	-	} 79,090
Other rockfish	26	1	1,536	-	-	
Sablefish	273	15	25,278	in others	-	25,566
Pacific cod	62	-	461	-	-	523
Atka mackerel	-	-	in others	-	-	-
Squid	-	-	in others	-	-	-
Pacific herring	4,868	-	45	-	-	4,913
Shrimp	43,034	-	-	-	-	43,034
Others	16	4	1,157	579	-	1,756
Total	57,402	7,079	87,672	30,719	-	182,872
<u>Washington-</u>						
<u>California</u>						
Pacific whiting	-	-	799	146,726	-	147,525
Pacific halibut	42	9	-	-	-	51
Other flounders	16,106	57	623	1,524	-	18,310
Pacific ocean perch	500	11	276	2,462	-	} 9,272
Other rockfish	5,993	-	30	-	-	
Sablefish	2,144	7	11	762	-	2,924
Jack mackerel	-	-	in others	-	-	-
Shrimp	5,889	-	-	-	-	5,889
Others	4,236	-	66	254	-	4,556
Total	34,910	84	1,805	151,728	-	188,527
Total off U.S.	92,393	7,494	1,921,859	602,924	10,000	2,634,670

Table 9.--All-nation catches of groundfish and associated species, 1971--Cont.

Region and species	US	Canada	Japan	USSR	ROK	Total
----- metric tons -----						
<u>British Columbia</u>						
Pacific whiting	3,407	-	639	-	-	4,046
Pacific halibut	392	4,169	-	-	-	4,561
Other flounders	2,307	5,001	88	-	-	7,396
Pacific ocean Perch	3,991	1,337	4,333	-	-	9,661
Other rockfish	4,956	947	428	-	-	6,331
Sablefish	204	312	3,057	-	-	3,573
Pacific herring	1,323	40,478 ^{1/}	-	-	-	41,801
Shrimp	26	333	-	-	-	359
Others	4,180	8,578	306	-	-	13,064
Total	20,786	61,155	8,851	-	-	90,792
Grand total	113,179	68,649	1,930,710	602,924	10,000	2,725,462

^{1/} caught in the 1971-72 season.

Table 10.--All-nation catches of groundfish and associated species, 1972.

Region and species	US	Canada	Japan	USSR	ROK	Total
-----metric tons-----						
<u>Bering Sea</u>						
<u>Aleutian</u>						
Walleye pollock	-	-	1,652,518	214,761	9,180	1,876,459
Pacific halibut	230	117	4,199	491	-	5,037
Yellowfin sole	-	-	34,939	61,006	-	} 212,632
Other flounders	-	-	116,687	-	-	
Pacific ocean perch	-	-	13,632	24,745	-	} 40,547
Other rockfish	-	-	2,170	-	-	
Sablefish	-	-	15,770	2,406	-	18,176
Pacific cod	-	-	39,934	-	-	39,934
Atka mackerel	-	-	in others	-	-	-
Molluscs	-	-	691	-	-	691
Pacific herring	88	-	6,458	54,000	-	60,546
Shrimp	-	-	5,805	-	-	5,805
Others	-	-	30,968	109,487	-	140,455
Total	318	117	1,923,771	466,896	9,180	2,400,282
<u>Gulf of Alaska</u>						
Walleye pollock	-	-	13,696	20,385	717	34,798
Pacific halibut	8,646	5,670	-	302	-	14,618
Other flounders	69	-	7,522	1,363	-	8,954
Pacific ocean perch	-	2	50,618	24,011	-	} 79,563
Other rockfish	-	-	1,987	-	2,945	
Sablefish	726	15	35,626	535	380	37,282
Pacific cod	-	1	816	2,696	-	3,513
Atka mackerel	-	-	in others	6,282	-	6,282
Squid	-	-	477	-	-	477
Pacific herring	8,217	-	-	-	-	8,217
Shrimp	38,035	1	-	-	-	38,036
Others	-	-	2,017	13,290	-	15,307
Total	55,693	5,689	112,759	68,864	4,042	247,047
<u>Washington-</u>						
<u>California</u>						
Pacific whiting	-	-	307	111,269	-	111,576
Pacific halibut	32	15	-	-	-	47
Other flounders	20,532	9	1,071	2,544	-	24,156
Pacific ocean perch	387	-	-	2,209	-	} 11,004
Other rockfish	7,823	-	585	-	-	
Sablefish	4,036	-	759	299	-	5,094
Jack mackerel	-	-	in others	-	-	-
Shrimp	11,258	-	3,198	-	-	14,456
Others	2,791	-	-	2,939	-	5,730
Total	46,859	24	5,920	119,260	-	172,063
Total off U.S.	102,870	5,830	2,042,450	655,020	13,222	2,819,392

Table 10.--All-nation catches of groundfish and associated species, 1972--Cont.

Region and species	US	Canada	Japan	USSR	ROK	Total
----- metric tons -----						
<u>British Columbia</u>						
Pacific whiting	-	-	113	5,816	-	5,929
Pacific halibut	332	4,386	-	-	-	4,718
Other flounders	2,813	3,761	255	in others	-	6,829
Pacific ocean Perch	3,871	2,327	10,380	401	-	} 24,208
Other rockfish	4,825	1,785	619	-	-	
Sablefish	105	1,088	4,245	in others	-	5,438
Pacific herring	1,566	39,037 ^{1/}	-	-	-	40,603
Shrimp	4	360	-	-	-	364
Others	7,451	12,049	2,421	2,110	-	24,031
Total	20,967	64,793	18,033	8,327	-	112,120
Grand total	123,837	70,623	2,060,483	663,347	13,222	2,931,512

^{1/} Caught in the 1972-73 season.

Table 11.--All-nation catches of groundfish and associated species, 1973.

Region and species	US	Canada	Japan	USSR	Poland	ROK	East- ^{1/} Germany	Total
-----metric tons-----								
<u>Bering Sea</u>								
<u>Aleutian</u>								
Walleye pollock	-	-	1,477,001	289,633	-	3,080		1,769,714
Pacific halibut	86	65	3,761	300	-	-		4,212
Yellowfin sole	-	-	76,046	21,178	-	-		182,972
Other flounders	-	-	85,748		-	-		
Pacific ocean perch	-	-	12,445	3,491	-	-		17,433
Other rockfish	-	-	1,497		-	-		
Sablefish	-	-	8,774	1,254	-	-		10,028
Pacific cod	-	-	45,588	-	-	-		45,588
Atka mackerel	-	-	27	-	-	-		27
Molluscs	-	-	951	-	-	-		951
Pacific herring	78	-	2,395	34,361	-	285		37,119
Shrimp	-	-	152	-	-	-		152
Others	-	-	43,952	32,113	-	-		76,065
Total	164	65	1,758,337	382,330	-	3,365		2,144,261
<u>Gulf of Alaska</u>								
Walleye pollock	-	-	6,706	34,138	-	858		41,702
Pacific halibut	7,521	3,574	-	174	-	-		11,269
Other flounders	450	-	18,502	1,061	-	-		20,013
Pacific ocean perch	-	-	47,373	5,646	-	3,432		63,888
Other rockfish	111	7	7,319		-	-		
Sablefish	866	16	27,351	109	-	42		28,384
Pacific cod	58	-	2,605	3,300	-	-		5,963
Atka mackerel	-	-	in others	10,998	-	-		10,998
Squid	-	-	in others	-	-	-		-
Pacific herring	7,998	-	-	-	-	-		7,998
Shrimp	52,933	-	-	-	-	-		52,933
Others	64	6	4,155	4,096	-	-		8,321
Total	70,001	3,603	114,011	59,522	-	4,332		251,469
<u>Washington-</u>								
<u>California</u>								
Pacific whiting	-	-	3,782	139,060	2,220	-	?	145,062
Pacific halibut	3	-	-	-	-	-		3
Other flounders	20,015	-	29	9	-	-		20,053
Pacific ocean perch	315	-	463	6,125	8	-		23,050
Other rockfish	11,615	-	4,524		-	-		
Sablefish	4,629	-	21	121	-	-		4,771
Jack mackerel	-	-	in others	-	-	-		-
Shrimp	14,047	-	-	-	-	-		14,047
Others	3,475	4	3,462	2,981	208	-		10,130
Total	54,099	4	12,281	148,296	2,436 ^{2/}	-		217,116
Total off U.S.	124,264	3,672	1,884,629	590,148	2,436	7,697		2,612,846

Table 11.--All-nation catches of groundfish and associated species, 1973--Cont.

Region and species	US	Canada	Japan	USSR	Poland	ROK	East- ^{1/} Germany	Total
----- metric tons -----								
<u>British Columbia</u>								
Pacific whiting	-	-	1,285	13,840	-	-	-	15,125
Pacific halibut	235	2,917	-	-	-	-	-	3,152
Other flounders	3,723	3,647	428	in others	-	-	-	7,798
Pacific ocean Perch	2,610	1,398	3,603	} 1,911	-	-	-	} 22,841
Other rockfish	5,559	1,422	6,338					
Sablefish	102	948	2,950	6	-	-	-	4,006
Pacific herring	-	55,622	-	-	-	-	-	55,622
Shrimp	10	784	-	-	-	-	-	794
Others	6,367	15,203	1,165	450	-	-	-	23,185
<u>Total</u>	<u>18,606</u>	<u>81,941</u>	<u>15,760</u>	<u>16,207</u>	-	-	-	<u>132,514</u>
<u>Grand total</u>	<u>142,870</u>	<u>85,613</u>	<u>1,900,389</u>	<u>606,355</u>	<u>2,436</u>	<u>7,697</u>	<u>?</u>	<u>2,745,360</u>

1/ Began operations in August with 1 vessel off Oregon.

2/ May include some catch taken off Alaska.

Table 12.--All-nation catches of groundfish and associated species, 1974.

Region and species	us	Canada	Japan	USSR	Poland: ¹	R	O Germany	^{2/}	Total
-----metric tons-----									
<u>Bering Sea</u>									
<u>Aleutian</u>									
Walleye pollock	-	-	1,256,201	330,959	-	28,600			1,615,760
Pacific halibut	124	122	1,849	127	-	-			2,222
Yellowfin sole	-	-	38,781	38,709	-	-		}	156,854
Other flounders	-	-	79,364						
Pacific ocean perch	-	-	28,133	32,701	-	-		}	63,281
Other rockfish	-	-	2,447						
Sablefish	-	-	7,194	91	-	-			7,285
Pacific cod	-	-	50,422	16,592	-	-			67,014
Atka mackerel	-	-	91	1,377	-	-			1,468
Molluscs	-	-	1,072	in others	-	-			1,072
Pacific herring	114	-	7,185	19,800	-	200			27,299
Shrimp	-	-	102	-	-	-			102
Others	-	-	64,268	14,496	-	5,963			84,727
Total	238	122	1,537,109	454,852	-	34,763			2,027,084
<u>Gulf of Alaska</u>									
Walleye pollock	-	-	30,433	31,000	-	-			61,433
Pacific halibut	5,844	1,395	-	60	-	-			7,299
Other flounders	325	-	7,107	2,334	-	-			9,766
Pacific ocean perch	-	7	36,980	17,194	-	-		}	58,234
Other rockfish	23		4,030						
Sablefish	777	10	24,283	38	-	3,000			28,108
Pacific cod	71	3	2,972	2,136	-	-			5,182
Atka mackerel	-	-	in others	17,531	-	-			17,531
Squid	-	-	in others	-	-	-			-
Pacific herring	17,663	-	-	-	-	-			17,663
Shrimp	49,319	-	-	-	-	-			49,319
Others	401	2	6,501	7,649	-	2,237			16,790
Total	74,423	1,417	112,306	77,942	-	5,237			271,325
<u>Washington-California</u>									
Pacific whiting	-	-	8,259	156,708	44,354	-	?		209,321
Pacific halibut	31	-	-	-	-	-			31
Other flounders	19,688	-	70	5	-	-			19,763
Pacific ocean perch	426	-	12	2,536	120	-		}	20,106
Other rockfish	11,453	-	5,559						
Sablefish	6,022	-	316	148	-	129			6,615
Jack mackerel	-	-	in others	-	-	-			-
Shrimp	10,853	-	-	-	-	-			10,853
Others	3,313	-	3,205	4,835	177	-			11,530
Total	51,786	-	17,421	164,232	44,651 ^{2/}	129			278,219
Total off U.S.	126,447	1,539	1,666,836	697,026	44,651	40,129			2,576,628

Table 12. --All-nation catches of groundfish and associated species, 1974--Cont.

Region and species	US	Canada	Japan	USSR	Poland	ROK	East ^{1/} Germany	Total
----- metric tons -----								
<u>British Columbia</u>								
Pacific whiting	-	-	134	1,799	-	-	-	1,933
Pacific halibut	324	1,826	-	-	-	-	-	2,150
Other flounders	3,998	3,686	35	-	-	-	-	7,719
Pacific ocean Perch	2,444	1,529	10,849	176	-	-	-	31,800
Other rockfish	3,780	1,130	11,917					
Sablefish	227	493 ^{3/}	3,875	16	-	-	-	4,611
Pacific herring	-	44,665 ^{3/}	-	-	-	-	-	44,665
Shrimp	3,507	1,199	-	-	-	-	-	4,706
Others	9,027	13,026	1,696	660	-	-	-	24,409
Total	<u>23,307</u>	<u>67,554</u>	<u>28,506</u>	<u>2,651</u>	-	-	-	<u>122,018</u>
Grand total	149,754	69,093	1,695,342	699,677	44,651	40,129	?	2,698,646

^{1/} Catches from Gulf of Alaska and Washington-California are combined in original data.

^{2/} One vessel in June only.

^{3/} Caught in the 1974-75 season.

Table 13.--All-nation catches of groundfish and associated species, 1975.

Region and species	US	Canada	Japan	USSR	Poland	ROK	Taiwan	East Germany, West Germany ^{1/}	Total
-----metric tons-----									
<u>Bering Sea</u>									
<u>Aleutian</u>									
Walleye pollock	-	-	1,067,711	228,829	-	3,438	in others	-	1,299,978
Pacific halibut	162	79	1,210	140	-	-	-	-	1,591
Yellowfin sole	-	-	59,863	40,415	-	-	in others	-	} 155,707
Other flounders	-	-	55,429		-	-	"	-	
Pacific ocean perch	-	-	13,544	24,612	-	27	"	-	} 39,155
Other rockfish	-	-	972		-		"	-	
Sablefish	-	-	5,357	117	-	9	"	-	5,483
Pacific cod	-	-	38,837	18,486	-	49	"	-	57,372
Atka mackerel	-	-	3	13,326	-	in others	"	-	13,329
Molluscs	-	-	4,863	-	-	-	"	-	4,863
Pacific herring	51	-	1,839	14,206	-	-	"	-	16,096
Shrimp	-	-	3,556	-	-	-	"	-	3,556
Others	-	-	60,618	12,492	-	1,244	~300	-	74,654
Total	213	79	1,313,802	352,623	-	4,767	~300	-	1,671,784
<u>Gulf of Alaska</u>									
Walleye pollock	-	-	13,032	39,949	631	~5,900	-	-	59,512
Pacific halibut	6,813	2,172	-	50	31	-	-	-	9,066
Other flounders	2	-	2,697	2,766	67	in others	-	-	5,532
Pacific ocean perch	94	4	34,131	15,071	-	~2,950	-	-	} 61,865
Other rockfish			9,615		-		-	-	
Sablefish	1,088	16	22,157	33	-	2,188	~100	-	25,582
Pacific cod	127	3	3,280	2,551	784	in others	-	-	6,745
Atka mackerel	-	-	in others	27,776	619	"	-	-	28,395
Squid	-	-	101	-	-	-	-	-	101
Pacific herring	16,081	-	-	-	-	-	-	-	16,081
Shrimp	44,893	-	-	-	-	-	-	-	44,893
Others	48	2	6,129	7,269	-	~2,950	~50	-	16,448
Total	69,146	2,197	91,142	95,465	2,132	~13,988	~150	-	274,220
<u>Washington-California</u>									
Pacific whiting in others	-	-	3,214	155,405	41,542	-	-	~2,000	202,161
Pacific halibut	17	-	-	-	-	-	-	-	17
Other flounders	21,523	-	255	151	in others	-	-	-	21,929
Pacific ocean perch	10,380	-		2,014	2,638	50	-	-	} 15,961
Other rockfish			879				-	-	
Sablefish	7,082	-	152	68	in others	3,664	-	-	10,966
Jack mackerel	-	-	in others	-	-	-	-	-	-
Shrimp	16,578	-	-	-	-	-	-	-	16,578
Others	2,907	-	813	2,136	6,691	-	-	-	12,547
Total	58,487	-	5,313	159,774	50,871	3,714	-	~2,000	280,159
Total off U.S.	127,846	2,276	1,410,257	607,862	53,003	~22,469	~450	~2,000	2,226,163

Table 13.--All-nation catches of groundfish and associated species, 1975--Cont.

Region and species	us	Canada	Japan	USSR	Poland	ROK	Taiwan	East Germany, West Germany ^{1/}	Total
	-----metric tons-----								
<u>British Columbia</u>									
Pacific whiting	-	in others	-	3,493	15,704	-	-	-	19,19
Pacific halibut	386	2,902	-	-	-	-	-	-	3,28
Other flounders	3,509	5,454	118	in others	in others	-	-	-	9,08
Pacific ocean perch	4,290	3,248	5,440	239	12,243	50	-	-	30,26
Other rockfish			4,750				-	-	
Sablefish	541	905 ^{2/}	4,713	12	in others	1,608	-	-	7,77
Pacific herring	-	59,645	-	-	-	-	-	-	59,64
Shrimp	996	784	-	-	-	-	-	-	1,78
Others	8,197	14,368	1,544	70	1,625	-	-	~2,500	29,02
Total	18,639	87,306	16,565	3,814	29,572	1,658	-	~2,500	160,05
Grand total	146,485	89,582	1,426,822	611,676	82,575	~24,127	~450	~4,500	2,386,21

1/ Three vessels from East Germany and 2 vessels from West Germany.

2/ Caught in the 1975-76 season.

Table 14.--All-nation catches of groundfish and associated species, 1976.^{1/}

Region and species	us	Canada	Japan	USSR	Poland	ROK	East Germany	Bulgaria	Total
-----metric tons-----									
<u>Bering Sea</u>									
<u>Aleutian</u>									
Walleye pollock	-	-	991,039	179,212	-	85,478			1,255,729
Pacific halibut	218	70	670	60	-	-			1,018
Yellowfin sole	-	-	52,806	30,480	-	1,334			84,620
Other flounders	-	-	52,728		-				52,728
Pacific ocean perch	-	-	13,994	19,075	-	616			33,685
Other rockfish	-	-	1,689		-				1,689
Sablefish	-	-	4,537	90	-	186			4,813
Pacific cod	-	-	39,453	18,068	-	736			58,257
Atka mackerel	-	-	92	20,737	-	-			20,829
Molluscs	-	-	1,302	-	-	-			1,302
Pacific herring	8	-	15,928	16,812	-	-			32,748
Shrimp	-	-	2,213	-	-	-			2,213
Others	-	-	64,368	11,975	-	1,605			77,948
Total	226	70	1,240,819	296,509	-	89,955			1,627,579
<u>Gulf of Alaska</u>									
Walleye pollock	60	-	11,796	37,825	-	29,720			79,401
Pacific halibut	6,511	2,351	-	26	-	-			8,888
Other flounders	153	-	2,283	2,601	-	1,052			6,089
Pacific ocean perch	126	-	35,353	9,697	-	1,615			46,791
Other rockfish	-	63	9,652	-	-	-			9,715
Sablefish	803	3	21,998	41	-	3,700			26,545
Pacific cod	217	-	3,308	2,995	-	244			6,764
Atka mackerel	-	-	in others	19,933	-	-			19,933
Squid	-	-	in others	-	-	-			-
Pacific herring	-	-	-	-	-	-			-
Shrimp	58,542	-	-	-	-	-			58,542
Others	158	-	5,548	6,755	-	1,083			13,544
Total	66,570	2,417	89,938	79,873	-	37,414			276,212
<u>Washington-California</u>									
Pacific whiting in others	-	-	3,334	154,129	23,568	-	~26,000	~24,200	231,331
Pacific halibut	22	-	-	-	-	-			22
Other flounders	22,650	-	117	142	in others	-			22,909
Pacific ocean perch	14,164	-	61	2,394	427	179			17,225
Other rockfish	-	-	816						816
Sablefish	3,347	-	134	66	in others	13,598			17,145
Jack mackerel	in others	-	in others	in others	-	-			-
Shrimp	14,772	-	-	-	-	-			14,772
Others	3,236	-	824	2,769	1,043	-			7,872
Total	58,191	-	5,286	159,500	25,138	13,777	~26,000	~24,200	312,092
Total off U.S.	124,987	2,487	1,336,043	535,882	25,138	141,146	~26,000	~24,200	2,215,883

Table 14.--All-nation catches of groundfish and associated species, 1976 Cont.

Region and species	US	Canada	Japan	USSR	Poland	ROK	East Germany	Bulgaria	Total
----- metric tons -----									
<u>British Columbia</u>									
Pacific whiting in others				3,918	2,054				5,972
Pacific halibut	299	3,022	-	-	-				3,321
Other flounders	4,331	6,466	242	in others	in others				11,039
Pacific ocean perch	5,623	3,711	3,540	313	4,614	115			17,916
Other rockfish			4,206						4,206
Sablefish	473	380 ^{2/}	3,501	17	in others	3,757			8,128
Pacific herring		81,104 ^{2/}	-	-	-	-			81,104
Shrimp	954	3,503	-	-	-	-			4,457
Others	8,841	13,469	735	84	71	2	2,000		25,202
Total	<u>20,521</u>	<u>111,655</u>	<u>12,224</u>	<u>4,332</u>	<u>6,739</u>	<u>3,874</u>	<u>2,000</u>		
Grand total	145,508	114,142	1,348,267	540,214	31,877	145,020	~28,000	~24,200	2,377,228

1/ Catch data from Taiwan not available; 1 or 2 vessels used.

2/ Caught in the 1976-77 season.

Table 15.--All-nation catches of groundfish and associated species, 1977.

Region and species	US	Canada	Japan	USSR	Poland	ROK	Taiwan	Total
-----metric tons-----								
<u>Bering Sea</u>								
<u>Aleutian</u>								
Walleye pollock	-	-	780,357	65,002	-	40,220	1,349	886,928
Pacific halibut	417	75	1	-	-	-	2	495
Yellowfin sole	-	-	58,240	284	-	-	-	58,524
Other flounders	-	-	59,226	6,211	-	-	-	65,477
Pacific ocean perch	-	-	8,636	876	-	565	2	10,079
Other rockfish	-	-	11,883	-	-	-	-	11,883
Sablefish	-	-	4,577	-	-	96	53	4,726
Pacific cod	-	-	36,315	278	-	1,445	2	38,040
Atka mackerel	-	-	788	20,975	-	-	-	21,763
Molluscs	-	-	6,747	-	-	-	-	6,747
Pacific herring	2,550	-	5,577	13,144	-	-	-	21,271
Shrimp	-	-	647	-	-	-	-	647
Others	-	-	31,777	5,271	-	-	95	37,143
Total	2,967	75	1,004,811	112,041	-	42,326	1,503	1,163,723
<u>Gulf of Alaska</u>								
Walleye pollock	181	-	41,953	41,588	1,256	35,580	-	120,558
Pacific halibut	5,322	1,633	-	-	-	-	-	6,955
Other flounders	684	-	17,750	464	-	-	-	18,898
Pacific ocean perch	12	1	19,247	1,829	-	-	-	21,089
Other rockfish	37	-	2,094	-	-	560	-	2,691
Sablefish	-	3	14,367	4	-	1,586	-	15,960
Pacific cod	164	-	1,479	525	-	100	-	2,268
Atka mackerel	-	-	121	19,220	209	-	-	19,550
Squid	-	-	319	-	-	-	-	319
Pacific herring	-	-	-	-	-	-	-	-
Shrimp	50,952	-	-	-	-	-	-	50,952
Others	128	1	2,749	1,070	-	-	-	3,948
Total	57,480	1,638	100,079	64,700	1,465	37,826	-	263,188
<u>Washington-California</u>								
Pacific whiting	540	-	-	99,938	17,654	-	-	118,132
Pacific halibut	25	-	-	-	-	-	-	25
Other flounders	5,062	-	-	-	-	-	-	5,062
Pacific ocean perch	727	-	-	82	-	-	-	809
Other rockfish	4,194	-	-	-	170	-	-	4,364
Sablefish	340	-	-	7	-	-	-	347
Jack mackerel	-	-	-	517	160	-	-	677
Shrimp	32,208	-	-	-	-	-	-	32,208
Others	1,449	-	-	-	8	-	-	1,457
Total	44,545	-	-	100,544	17,992	-	-	163,081
Total off U.S.	104,992	1,713	1,104,890	277,285	19,457	80,152	1,503	1,589,992

Table 15.--All-nation catches of groundfish and associated species, 1977--Cont.

Region and species	US	Canada	Japan	USSR	Poland	ROK	Taiwan	Total
----- metric tons -----								
<u>British Columbia</u>								
Pacific whiting	20	-	1,931	-	4,532	-	-	6,483
Pacific halibut	180	2,269	-	-	-	-	-	2,449
Other flounders	3,497	5,515	73	-	-	-	-	9,085
Pacific ocean perch	1,961	2,716	2,144	-	-	-	-	6,821
Other rockfish	6,584	5,235	906	-	25	-	-	12,750
Sablefish	431	1,085	2,968	-	-	6	-	4,490
Pacific herring	-	97,171 ^{1/}	-	-	-	-	-	97,171
Shrimp	1,416	2,833	-	-	-	-	-	4,249
Others	7,320	13,104	138	-	503	-	-	21,065
Total	21,409	129,928	8,160	-	5,060	6	-	164,563
Grand total	126,401	131,641	1,113,050	277,285	24,517	80,158	1,503	1,754,555

^{1/} Caught in the 1977-78 season.

Table 16.--All-nation catches of groundfish and associated species, 1978.

Region and species	U S ^{1/}	Canada	Japan	USSR	Poland	ROK	Taiwan	Total
-----metric tons-----								
<u>Bering Sea</u>								
<u>Aleutian</u>								
Walleye pollock	23	-	788,113	92,840	-	59,634	3,057	943,667
Pacific halibut	723	67	-	-	-	-	4	794
Yellowfin sole	-	-	62,796	50,004	-	64	-	112,914
Other flounders	-	-	85,073	36,643	-	152	64	121,932
Pacific ocean perch	-	-	6,819	237	-	682	3	7,741
Other rockfish	-	-	7,913	-	-	124	-	8,037
Sablefish	-	-	1,638	-	-	195	5	1,838
Pacific cod	35	-	44,400	540	-	866	62	45,903
Atka mackerel	-	-	1,548	22,340	-	105	-	23,993
Molluscs	-	-	9,099	-	-	34	31	9,164
Pacific herring	7,038	-	2,277	6,103	-	17	-	15,435
Shrimp	3,002	-	-	-	-	-	-	3,002
Others	5	-	46,656	10,827	-	3,477	-	60,965
Total	10,826	67	1,056,332	219,584	-	65,350	3,226	1,355,385
<u>Gulf of Alaska</u>								
Walleye pollock	-	-	25,900	41,880	1,230	28,198	-	97,208
Pacific halibut	5,375	1,947	-	-	-	-	-	7,322
Other flounders	861	-	15,396	442	13	105	-	16,817
Pacific ocean perch	7	-	3,932	628	2	3,510	-	8,079
Other rockfish	90	-	723	-	9	654	-	1,476
Sablefish	1,235	-	6,923	1	-	612	-	8,771
Pacific cod	791	-	7,345	1,083	14	1,263	-	10,496
Atka mackerel	-	-	1,011	18,472	-	69	-	19,552
Squid	-	-	129	-	1	100	-	230
Pacific herring	9,173	-	-	-	-	-	-	9,173
Shrimp	30,500	-	-	-	-	-	-	30,500
Others	1,318	-	2,828	421	-	2,053	-	6,620
Total	49,350	1,947	64,187	62,927	1,269	36,564	-	216,244
<u>Washington-California</u>								
Pacific whiting	648	-	-	69,550	27,171	-	-	97,369
Pacific halibut	15	-	-	-	-	-	-	15
Other flounders	25,011	-	-	-	-	-	-	25,011
Pacific ocean perch	1,221	-	-	-	-	-	-	1,221
Other rockfish	24,715	-	-	480	131	-	-	25,326
Sablefish	9,442	-	-	14	43	-	-	9,499
Jack mackerel	-	-	-	1,376	188	-	-	1,564
Shrimp	34,458	-	-	-	-	-	-	34,458
Others	4,074	-	-	4	71	-	-	4,149
Total	99,584	-	-	71,424	27,604	-	-	198,612
Total off U.S.	159,760	2,014	1,120,519	353,935	28,873	101,914	3,226	1,770,241

Table 16.--All-nation catches of groundfish and associated species, 1978--Cont.

Region and species	US	Canada	Japan	USSR	Poland	ROK	Taiwan	Total
----- metric tons -----								
<u>British Columbia</u>								
Pacific whiting	7	-	3,366	-	500	-	-	3,873
Pacific halibut	138	1,891	-	-	-	-	-	2,029
Other flounders	3,895	5,456	1	-	-	-	-	9,352
Pacific ocean perch	1,285	-	19	-	-	-	-	1,304
Other rockfish	5,486	10,295	74	-	-	-	-	15,855
Sablefish	948	554	2,108	-	-	-	-	3,610
Pacific herring	-	81,400	-	-	-	-	-	81,400
Shrimp	2,945	-	-	-	-	-	-	2,945
Others	11,650	14,963	39	-	-	-	-	26,652
Total	26,354	114,559	5,607	-	500	-	-	147,020
Grand total	186,114	116,573	1,126,126	353,935	29,373	101,914	3,226	1,917,261

1/ Data from California preliminary.

Table 17.--All-nation catches of groundfish and associated species, 1979.

Region and species	US ^{1/}	Canada:	Japan	USSR	Poland?'	ROK	Taiwan	Total
-----metric tons-----								
<u>Bering Sea</u>								
<u>Aleutian</u>								
Walleye pollock			757,332	60,292	20,162	83,702	1,952	923,440
Pacific halibut			-	-	-	-	-	-
Yellowfin sole			58,133	40,271	-	1,919	3	100,326
Other flounders			75,519	13,479	1	2,366	19	91,384
Pacific ocean perch			6,997	-	1	303	2	7,303
Other rockfish			15,590	32	-	-	-	15,622
Sablefish			1,676	27	1	358	4	2,066
Pacific cod			33,707	2,370	9	2,452	38	38,576
Atka mackerel			1,667	20,211	2	1,147	-	23,027
Molluscs			5,138	1	28	1,360	12	6,539
Pacific herring			1,677	4,986	-	120	-	6,783
Shrimp			-	-	-	-	-	-
Others			38,304	8,950	1	4,939	-	52,194
Total			995,740	150,619	20,205	98,666	2,030	1,267,260
<u>Gulf of Alaska</u>								
Walleye pollock			29,354	18,205	9,368	19,838	-	76,765
Pacific halibut			-	-	-	-	-	-
Other flounders			14,529	156	17	378	-	15,080
Pacific ocean perch			6,512	-	3	753	-	7,268
Other rockfish			2,157	867	15	181	-	3,220
Sablefish			5,894	88	-	743	-	6,725
Pacific cod			11,784	504	50	582	-	12,920
Atka mackerel			427	9,297	1	23	-	9,748
Squid			284	-	8	123	-	415
Pacific herring			-	-	-	-	-	-
Shrimp			-	-	-	-	-	-
Others			2,991	1,357	5	711	-	5,064
Total			73,932	30,474	9,467	23,332	-	137,205
<u>Washington-California</u>								
Pacific whiting			-	101,071	18,473	-	-	119,544
Pacific halibut			-	-	-	-	-	-
Other flounders			-	-	1	-	-	1
Pacific ocean perch			-	-	5	-	-	5
Other rockfish			-	620	57	-	-	677
Sablefish			-	52	5	-	-	57
Jack mackerel			-	402	295	-	-	697
Shrimp			-	-	-	-	-	-
Others			-	68	17	-	-	85
Total			-	102,213	18,853	-	-	121,066
Total off U.S.			1 069 672	283 306	48 525	121 998	2 030	1 525 531

Table 17.--All-nation catches of groundfish and associated species, 1979-Cont.

Region and species	US ^{1/}	Canada ^{2/}	Japan	USSR	Poland	ROK	Taiwan	Total
----- metric tons -----								
<u>British Columbia</u>								
Pacific whiting	-		3,638	-	4,493	-	-	8,131
Pacific halibut	2,935		-	-	-	-	-	2,935
Other flounders	6,323		-	-	-	-	-	6,323
Pacific ocean perch	-		3	-	-	-	-	3
Other rockfish	8,790		67	-	18	-	-	8,875
Sablefish	1,401		1,012	-	-	-	-	2,413
Pacific herring	43,465		-	-	-	-	-	43,465
Shrimp	716		-	-	-	-	-	716
Others	12,545		93	-	37	-	-	12,675
Total	76,175		4,813	-	4,548	-	-	85,536
Grand total	76,175	1,074,485	283,306	53,073	121,999	2,030	1,611,067	

1/ Data not available.

2/ Incomplete.

Table 18.--All-nation catches of groundfish and associated species by joint ventures, 1979. Provisional estimates.

Region and species	US-USSR	US-ROK	Total
-----metric tons-----			
<u>Bering Sea</u>			
<u>Aleutian</u>			
Walleye pollock			
Pacific halibut			
Yellowfin sole			
Other flounders			
Pacific ocean perch			
Other rockfish			
Sablefish			
Pacific cod			
Atka mackerel			
Molluscs			
Pacific herring			
Shrimp			
Others			
Total			
<u>Gulf of Alaska</u>			
Walleye pollock	64	518	582
Pacific halibut	-	-	-
Other flounders	16	61	77
Pacific ocean perch	13	45	58
Other rockfish	15	23	38
Sablefish	2	18	20
Pacific cod	28	684	712
Atka mackerel	-	1	1
Squid	-	0	0
Pacific herring	-	-	-
Shrimp	-	-	-
Others	0	34	34
Total	138	1,384	1,522
<u>Washington-California</u>			
Pacific whiting	8,834	-	8,834
Pacific halibut	-	-	-
Other flounders	0	-	0
Pacific ocean perch			
Other rockfish	71	-	71
Sablefish	51	-	51
Jack mackerel	77	-	77
Shrimp	-	-	-
Others	21	-	21
Total	9,054		9,054

1/ 1979 was the first year of joint-venture fisheries.

2/ Catches of rougheye, shortraker, northern, and sharpchin rockfish were reported combined with Pacific ocean perch in 1979.

Table 19.--All-nation catches of groundfish and associated species, 1980. provisional estimates.

Region and species	US ^{1/} /Canada ^{1/}	Japan	USSR	Poland	ROK	Tai- Wan	West Germany	Total
----- metric tons -----								
<u>Bering Sea</u>								
<u>Aleutian</u>								
Walleye pollock		832,993	2,156	46,146	113,865	4,974	5,996	1,006,130
Pacific halibut			-	-	-	-	-	-
Yellowfin sole		61,295	6	234	16,198	35		77,768
Other flounders		74,151	4	611	13,623	126	15	88,530
Pacific ocean perch		4,103	5	37	740	18	15	4,918
Other rockfish		3,024	2	23	493	9	0	3,551
Sablefish		1,882	-	152	350	38	16	2,438
Pacific cod		29,524	11	628	6,404	200	552	37,319
Atka mackerel		1,719	937	44	17,483	-	42	20,225
Molluscs		4,642	-	19	1,620	39	53	6,373
Pacific herring		329	428	2	23	0	-	782
Shrimp				-	-	-	-	-
Others		39,878	8	198	6,791	69	39	46,983
Total		1,053,540	3,557	48,094	177,590	5,508	6,728	1,295,017
<u>Gulf of Alaska</u>								
Walleye pollock		37,897	37,001	13,085	25,013	-	-	112,996
Pacific halibut			-	-	-	-	-	-
Other flounders		11,923	1,838	0	1,734	-	-	15,495
Pacific ocean perch		10,770	1,239	30	408	-	-	12,447
Other rockfish		4,002	10	4	184	-	-	4,200
Sablefish		4,831	416	-	891	-	-	6,138
Pacific cod		30,581	1,942	54	1,666	-	-	34,243
Atka mackerel		1,896	10,473	57	736	-	-	13,162
Squid		697	37	0	107	-	-	841
Pacific herring		-	-	-	-	-	-	-
Shrimp		-	-	-	-	-	-	-
Others		5,375	1,646	44	1,449	-	-	8,514
Total		107,972	54,602	13,274	32,188	-	-	208,036
<u>Washington-California</u>								
Pacific whiting		-	-	44,023	-	-	-	44,023
Pacific halibut		-	-	-	-	-	-	-
Other flounders		-	-	2	-	-	-	2
Pacific ocean perch		-	-	32	-	-	-	32
Other rockfish		-	-	958	-	-	-	958
Sablefish		-	-	93	-	-	-	93
Jack mackerel		-	-	1,725	-	-	-	1,725
Shrimp		-	-	-	-	-	-	-
Others		-	-	95	-	-	-	95
Total		-	-	46,928	-	-	-	46,928
<u>Total off U.S.</u>		1,161,512	58,159	108,296	209,778	5,508	6,728	1,549,981

1/ Data not available.

Table 20.--All-nation catches of groundfish and associated species, by joint ventures, 1980. provisional estimates.

Region and species	us-ROK	us-USSR	us-Poland	TOTAL
-----metric tons-----				
<u>Bering Sea</u>				
<u>Aleutian</u>				
Walleye pollock	5,845	4,807	-	10,652
Pacific halibut	-	-	-	-
Yellowfin sole	592	9,032	-	9,624
Other flounders	68	2,728	-	2,796
Pacific ocean perch	10	42	-	52
Other rockfish	2	9	-	11
Sablefish	38	1	-	39
Pacific cod	1,176	7,281	-	8,457
Atka mackerel	5	260	-	265
Molluscs	-	-	-	-
Pacific herring	-	-	-	-
Shrimp	-	-	-	-
Others	75	603	-	678
Total	7,811	24,763	-	32,574
<u>Gulf of Alaska</u>				
Walleye pollock	1,058	77	-	1,135
Pacific halibut	-	-	-	-
Other flounders	200	8	-	200
Pacific ocean perch	20	-	-	20
Other rockfish	8	-	-	8
Sablefish	20	-	-	20
Pacific cod	457	8	-	465
Atka mackerel	3	-	-	3
Squid	-	-	-	-
Pacific herring	-	-	-	-
Shrimp	-	-	-	-
Others	49	-	-	49
Total	1,815	93	-	1,908
<u>Washington-California</u>				
Pacific whiting	-	26,553	984	27,537
Pacific halibut	-	-	-	-
Other flounders	-	46	-	46
Pacific ocean perch	-	29	0	29
Other rockfish	-	447	2	449
Sablefish	-	213	1	214
Jack mackerel	-	74	0	74
Shrimp	-	-	-	-
Others	-	121	1	122
Total	-	27,483	988	28,471
Total off U.S.	-	50,770	988	51,758