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CATCH AND EFFORT STATISTICS OF UNITED STATES
DOMESTIC AND JOINT-VENTURE FISHERIES
IN THE BERING SEA AND NORTHEAST PACIFIC OCEAN
1987 (PRELIMINARY)

by

Renold E. Narita

Northwest and Alaska Fisheries Center
National Marine Fisheries Service
National Oceanic and Atmospheric Administration
Building 4, BIN C15700
7600 Sand Point Way N. E.
Seattle, Washington 98115

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INTRODUCTION

This document presents preliminary catch and effort statistics from the groundfish fisheries in the Bering Sea and Northeast Pacific Regions (Figure 1) for:

- 1.) the U. S. domestic fishery (also including halibut, shrimp, and herring) for 1987
- 2.) the U. S. joint-venture fishery for 1987

Statistics were collected from the following data sources:

Groundfish catch-----Pacific Coast Fishery
Information Network
(PacFIN)

Vessel, herring, and shrimp data----Fisheries agencies of
Alaska, Washington,
Oregon, and California

Halibut catch and effort-----International Pacific
Halibut Commission

Joint-venture catch and effort-----National Marine Fisheries
Service (Seattle).

The Pacific Coast Fisheries Information Network (PacFIN) is a data collection and reporting system which collects catch data from the state agencies in support of regional in-season management functions. The groundfish catch data should be regarded as the best available, to be finalized in the future when each state agency supplies further information.

Data are summarized by two major areas: the Bering Sea Region and the Northeast Pacific Region. For joint-venture data, the Northeast Pacific Region has been further subdivided into the Gulf

of Alaska Region and the Washington-Oregon-California Coast Region. Catch and effort for all areas are also given by International North Pacific Fishery Commission (I.N.P.F.C.) statistical areas (Figure 1).

U.S. DOMESTIC CATCH (1000s t)

BERING SEA	
Groundfish	295.9
Halibut	2.7
Herring	--

N.E. PACIFIC	
Groundfish	231.6
Halibut	31.8
Herring	21.4
Shrimp	31.1

U.S. JOINT VENTURE CATCH (1000s t)

BERING SEA	
Total Groundfish	351.9

N.E. PACIFIC	
Total Groundfish	138.6

Table 1.--Number of vessels, by geartype, fishing for groundfish, shrimp, and herring in the Bering Sea Region, 1987.

Geartype	1987
Gillnet	5
Longline	491
Trawl	96
Purse seine	9
Pots	20

Table 2.--Domestic INPFC area report for the Bering Sea Region;
commercial groundfish catch (tonnes) landed in 1987 by
all geartypes.

SPECIES	AREA 5	AREA 2	AREA 1	TOTAL
BLACKCOD	3766.4	362.7	3656.3	7785.4
ALL FLATFISH	3537.9	1746.2	18881.4	24165.5
ARROWTOOTH FLOUNDER	45.1	3.0	19.0	67.1
GREENLAND TURBOT	3035.2	1180.5	4264.1	8479.8
DOVER SOLE	—	—	0.1	0.1
PETRALE SOLE	—	—	11.5	11.5
REX SOLE	—	—	88.8	88.8
ROCK SOLE	434.3	141.8	8548.7	9124.8
OTHER FLATFISH	—	1.8	47.6	49.4
UNSP. FLATFISH	23.3	419.1	5901.7	6344.1
PACIFIC COD	2771.7	391.4	41545.0	44708.1
WALLEYE POLLOCK	249.3	4930.1	210290.5	215469.9
ALL ROCKFISH	867.6	632.3	1205.5	2705.9
PACIFIC OCEAN PERCH	712.8	489.8	788.6	1991.2
OTHER ROCKFISH	154.8	142.5	416.9	714.7
OTHER GROUND FISH	30.1	—	1024.3	1054.4
ALL GROUND FISH	11223.1	8062.8	276603.1	295889.0

Table 3.--United States fishing effort and catch (tonnes, round weight) of halibut, by area in the Bering Sea Region, 1987.

	180-170W	E of 170W	Aleutian	Total
Skates x1000	N.A.	N.A.	N.A.	N.A.
Catch	776	933	993	2702

N.A. = Data not available.

Table 4.--Number of vessels, by geartype, fishing for groundfish, shrimp, and herring in the Northeast Pacific Region, 1987.

Geartype	1987
Gillnet	498
Longline	4537
Trawl	833
Purse seine	125
Pots	145

Table 5.--Domestic INPFC area report for the Northeast Pacific region; commercial groundfish catch (tonnes) landed in 1987 by all gear types.

SPECIES	SHUMAGIN	CHIRIKOF	KODIAK	YAKUTAT S.	EASTERN	UNK-ALASKA	CHARLOTTE
BLACKCOD	3646.4	2813.6	7846.4	5534.1	6508.2	1.6	81.3
ALL FLATFISH	199.4	205.1	1771.1	20.1	492.5	—	281.5
ARROWTOOTH FLOUNDER	1.0	—	9.0	—	129.3	—	174.3
GREENLAND TURBOT	56.3	6.0	1.7	0.2	TR	—	—
DOVER SOLE	—	—	22.1	—	0.4	—	23.1
ENGLISH SOLE	—	—	11.0	—	4.3	—	29.2
PETRALE SOLE	—	—	—	—	0.2	—	22.5
REX SOLE	—	—	43.2	—	0.1	—	0.1
ROCK SOLE	7.3	42.3	653.9	15.5	10.0	—	31.7
STARRY FLOUNDER	—	—	81.2	—	322.6	—	0.3
OTHER FLATFISH	—	—	250.6	—	24.4	—	0.3
UNSP. FLATFISH	134.8	156.8	684.0	4.2	1.3	—	—
LINGCOD	—	—	18.1	17.7	195.5	3.4	294.2
PACIFIC COD	1954.8	1940.8	25139.5	29.6	389.0	30.5	691.3
WALLEYE POLLOCK	3341.9	188.1	36226.7	TR	114.2	0.6	17.1
ALL ROCKFISH	2197.3	232.2	2890.9	4630.0	2743.5	6.5	3734.8
PACIFIC OCEAN PERCH	1352.0	56.5	1371.6	1120.6	921.3	—	866.2
OTHER ROCKFISH	845.3	175.7	1519.3	3509.4	1822.2	6.5	2868.6
OTHER GROUND FISH	—	—	—	—	0.4	—	14.7
ALL GROUND FISH	11367.5	5379.8	73932.8	10231.8	10487.0	42.7	5162.6

Only the trawl-caught portion of the entire jack mackerel harvest is represented in the "Other Groundfish" category.

TR => landed catch less than 0.05 tonnes or tonnes per hour less than 0.005.

Table 5.--Domestic INPFC area report for the Northeast Pacific Region; commercial
(Cont'd) groundfish catch (tonnes) landed in 1987 by all geartypes.

SPECIES	VNCVR-BC	GRGIA	STRT	PUGET	SND	VNCVR-US	COLUMBIA
BLACKCOD	25.7		0.1		17.2	1589.9	6293.2
ALL FLATFISH	92.2		1.7		681.1	3096.7	10092.9
ARROWTOOTH FLOUNDER	45.4				4.2	1675.4	1102.8
DOVER SOLE	12.7		TR		22.0	902.5	5972.7
ENGLISH SOLE	8.6		0.2		368.7	320.5	791.3
PETRALE SOLE	13.3				0.1	151.8	1098.7
REX SOLE					0.2	11.7	348.5
ROCK SOLE	10.0		1.5		31.3	1.9	2.0
STARRY FLOUNDER	0.3				227.5	22.4	163.7
OTHER FLATFISH	2.0				27.0	10.6	613.3
UNSP. FLATFISH							
LINGCOD	160.0		0.6		54.9	487.3	1131.0
PACIFIC COD	206.3		6.5		797.1	1093.7	1088.2
PACIFIC WHITING	2950.8		9567.5		302.5		277.5
WALLEYE POLLOCK			23.8		34.7	24.3	2.2
ALL ROCKFISH	2697.8		204.1		59.3	3379.5	19663.5
PACIFIC OCEAN PERCH	151.2		0.3			295.6	577.8
OTHER ROCKFISH	2546.6		203.8		59.3	3083.9	19085.7
OTHER GROUND FISH	3.9		2.3		355.3	37.5	105.4
ALL GROUND FISH	7525.4		10465.0		3765.4	9880.2	38681.5

Only the trawl-caught portion of the entire jack mackerel harvest is represented in the "Other Groundfish" category.

TR => Landed catch less than 0.05 tonnes or tonnes per hour less than 0.005.

Table 5.--Domestic INPFC area report for the Northeast Pacific Region; commercial (Cont'd) groundfish catch (tonnes) landed in 1987 by all geartypes.

SPECIES	COL RIVER	EUREKA	MONTEREY	CONCEPTION	UNKN INPFC	TOTAL
BLACKCOD	—	1929.9	2806.8	63.9	46.4	39204.7
ALL FLATFISH	8.8	6926.2	8450.8	294.5	11.8	32626.5
ARROWTOOTH FLOUNDER	—	51.7	0.3	—	TR	3193.5
DOVER SOLE	—	5097.5	6322.9	134.4	10.7	18521.1
ENGLISH SOLE	—	622.6	697.3	49.4	TR	2903.1
PETRALE SOLE	—	399.7	500.2	53.9	0.2	2240.6
REX SOLE	—	358.2	462.0	19.4	0.5	1243.7
ROCK SOLE	—	TR	4.1	TR	—	811.6
STARRY FLOUNDER	8.8	42.2	51.9	1.5	—	922.4
OTHER FLATFISH	—	333.3	377.8	4.0	0.1	1657.8
UNSP. FLATFISH	—	20.9	34.2	31.8	0.3	1068.4
LINGCOD	TR	324.0	625.2	17.4	0.7	3330.1
PACIFIC COD	—	81.6	9.7	0.1	—	33458.5
PACIFIC WHITING	—	4508.0	8.9	0.8	—	17616.1
WALLEYE POLLOCK	—	—	—	—	—	39973.7
ALL ROCKFISH	TR	6216.8	8846.1	2222.2	82.2	59806.4
PACIFIC OCEAN PERCH	—	100.9	1.2	0.2	0.4	6815.7
OTHER ROCKFISH	TR	6115.9	8532.6	2222.0	81.8	52990.7
OTHER GROUND FISH	0.1	3.0	35.5	102.1	5.1	5542.3
ALL GROUND FISH	869.4	20088.2	20826.6	2705.9	146.9	231558.5

Only the trawl-caught portion of the entire jack mackerel harvest is represented in the "Other Groundfish" category.

TR => Landed catch less than 0.05 tonnes or tonnes per hour less than 0.005.

Table 6.--United States fishing effort and catch (tonnes, round weight) of halibut, by area in the Northeast Pacific Region, 1987.

Catch	Area				
	Shumagin	Chirikof	Kodiak	Yakutat	South-eastern
Skates x1000	N.A.	N.A.	N.A.	N.A.	N.A.
Catch	3395	2737	17045	1847	6446

Catch	Area			
	Charlotte	Vancouver	Columbia	Total
Skates x1000	N.A.	N.A.	N.A.	N.A.
Catch		200	158	31828

Table 7.--United States catch (tonnes, round weight)
of shrimp, by area, in the Northeast
Pacific Region, 1987.

INPFC Area	1987
Shumagin	
Chirikof	
Kodiak	171.0
Yakutat	
Southeastern	23.2
Charlotte	0
Vancouver *	318.5
Puget Sound	64.5
Columbia	26302.5
Eureka	3863.1
Monterey	304
Conception	302
Unknown Area	6.8
TOTAL	31,291.1

* Includes Puget Sound.

Table 8.--United States fishing effort (landings), by gear, and
catch (tonnes, round weight) of herring, by area in the
Northeast Pacific Region, 1987.

INPFC Area	State	Catch	Effort (landings)			
			Purse seine	Gillnet	Pot and trap	Other gear
Shumagin	AK					
Chirikof	AK					
Kodiak	AK	11942.8	380	99		65
Yakutat	AK					
Southeastern	AK					
Charlotte						
Vancouver *	WA	540.2	159			83
Puget Sound	WA	540.2	159			83
Columbia	OR	223.4	N.A.			
Eureka	CA	64		34		
Monterey	CA	8336	470	2047		
Conception						
Unk. area	AK					
Total		21423.2	1160	2180	0	231

* Includes Puget Sound.
N.A. = Not available.

Table 9.--United States joint-venture catches (tonnes) in the Bering Sea by species and area, 1987. a/

	Total	Area 1	Area 2	Area 3	Area 5
Total	1351904.1	943431.7	336417.7	690.9	71363.8
Pollock	1040539.6	692582.4	318795.1	690.9	28471.2
Yellowfin sole	179609.0	179111.5	497.4	0	0.1
Turbots b/	58.4	8.8	15.0	0	34.6
Arrowtooth flounder	1670.8	1277.0	279.4	0	114.4
Pacific cod	58132.6	39933.9	7763.5	0	10435.2
Other flounders c/	34225.9	26077.7	7873.9	0	274.3
Atka mackerel	30061.7	10.5	2.1	0	30049.1
Sablefish	123.5	56.1	12.1	0	55.3
Pacific ocean perch d/	549.9	11.4	38.5	0	500.0
Other rockfish	320.9	55.2	3.5	0	262.2
Squid	35.3	11.7	0.2	0	23.4
Herring	468.1	445.5	22.6	0	0
Other fishes e/	6108.4	3850.0	1114.4	0	1144.0
Number of processor days	10496	7832	1639	13	1012

a/ Joint-venture fisheries in the Bering Sea in 1987 were conducted by U.S.-U.S.S.R., U.S.-R.O.K., U.S.-Poland, U.S.-Japan, and U.S.-People's Republic of China.

b/ Greenland turbot and Kamchatka flounder.

c/ Excluding halibut.

d/ Pacific ocean perch, sharpchin rockfish, shortraker rockfish, northern rockfish, and roughey rockfish.

e/ Sculpins, sharks, skates, eulachon, smelts, capelin, and octopus.

Source: National Marine Fisheries Service, Seattle.

Table 10 . --United States joint-venture catches (tonnes) in
in Northeast Pacific Region, by species,
1987. a/

Species	1987
Total	138621.4
Pollock	2 2822.5
Pacific cod	1978.1
Pacific hake	105996.7
Jack mackerel	16.2
All flounders b/	7207.9
Atka mackerel	1.3
Sablefish	182.7
Pacific ocean perch	112.9
Other rockfish	97.5
Shortspine thornyhead	20.0
Squid	3.8
Other fishes c/	181.8
Number of processor days	2244

a/ Joint-venture fisheries in the Northeast Pacific Region in 198 were conducted by U.S.-U.S.S.R., U.S.-R.O.K., U.S.-Poland, U.S.-Japan, and U.S.-People's Republic of China.

b/ Excluding halibut.

c/ Squid, octopus, and other species of finfish not listed above excluding salmon, herring, and halibut.

Source: National Marine Fisheries Service, Seattle.

Table 11.--United States joint-venture catches (tonnes) in the Gulf of Alaska by species and area, 1987. a/

	Total	Shumagin	Chirikof	Kodiak
Total	32526.1	25653.2	1627.1	5245.8
Pollock	22822.5	22656.7	25.3	140.5
Pacific cod	1978.1	518.2	436.9	1023.0
Atka mackerel	1.3	1.3	0	0
Sablefish	180.3	165.8	1.0	13.5
Pacific ocean perch b/	112.5	108.4	0.3	3.8
Rockfish w/o POP	21.8	14.2	0.8	6.8
Shortspine thornyhead	20.0	20.0	0	0
All flounders c/	7207.7	2072.5	1133.8	4001.4
Squid	3.8	3.8	0	0
Other fishes d/	178.1	92.3	29.0	56.8
Number of processor days	374	152	47	175

a/ Joint-venture fisheries in the Gulf of Alaska in 1987 were conducted by U.S.-R.O.K., U.S.-Japan, and U.S.-People's Republic of China.

b/ Pacific ocean perch, sharpchin rockfish, shortraker rockfish, northern rockfish, and roughey rockfish.

c/ Excluding halibut.

d/ Sculpins, sharks, skates, eulachon, smelts, capelin, and octopus.

Source: National Marine Fisheries Service, Seattle.

Table 12.--United States joint-venture catches (tonnes) off the Washington, Oregon, and California coast by species and by area, 1987. a/

Species	Total	Vancouver	Columbia
Total	106095.3	6984.2	99111.1
Pacific hake	105996.7	6973.3	99023.4
Jack mackerel	16.2	0	16.2
Sablefish	2.4	0	2.4
Pacific ocean perch	0.4	0	0.4
Rockfish w/o POP	75.7	10.9	64.8
All flounders b/	0.2	0	0.2
Other fishes c/	3.7	0	3.7
Number of processor days	1870	113	1757

a/ Joint-venture fisheries off the W.O.C. coast in 1987 were conducted by U.S.-U.S.S.R., U.S.-R.O.K., U.S.-Poland, U.S.-People's Republic of China.

b/ Excluding halibut.

c/ Squid, octopus, and other species of finfish not listed above excluding salmon, herring, and halibut.

Source: National Marine Fisheries Service, Seattle.

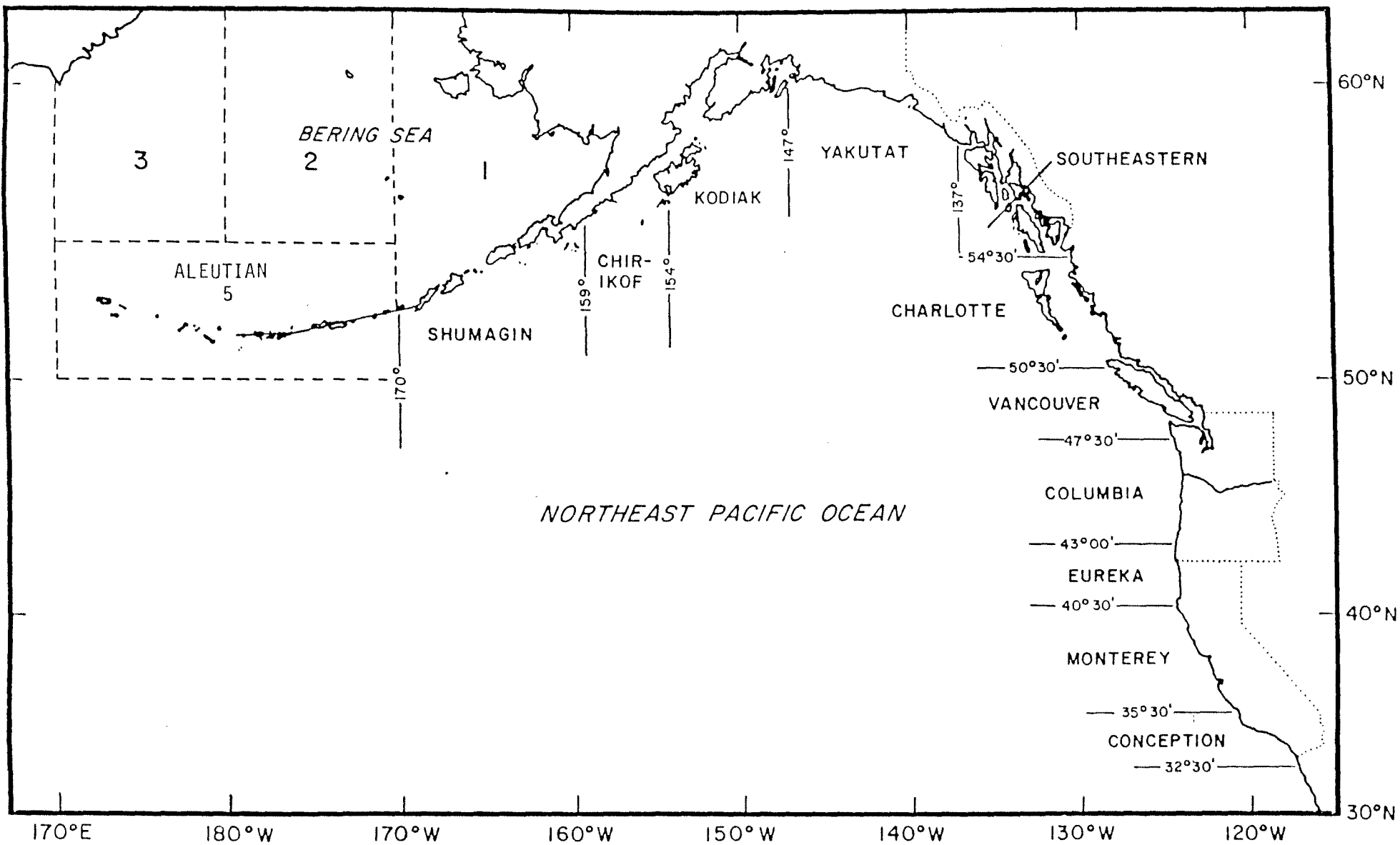


Figure 1.--Statistical areas of the Bering Sea and Northeast Pacific.