



NOAA Technical Memorandum NMFS-AFSC-72

Economic Status of the Groundfish Fisheries off Alaska, 1995

by

R. K. Kinoshita, A. Grieg, D. Colpo, and J. M. Terry

U.S. DEPARTMENT OF COMMERCE

National Oceanic and Atmospheric Administration

National Marine Fisheries Service

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ABSTRACT

This report presents data which summarizes various aspects of the economic performance of the domestic groundfish fishery in the U.S. Exclusive Economic Zone (EEZ) off Alaska. Generally, data are presented for 1991 through 1995. Although limited catch, ex-vessel value, and export value data are also included for the fishery during the early or mid-1980s. With the exception of the exports, Pacific halibut (*Hippoglossus stenolepis*) is not included in this report because for management purposes halibut is not part of the groundfish complex.

Compared with the report that was prepared a year ago, there have been major changes in the data that are presented. The changes include a new source of ex-vessel prices for 1991-95, more extensive bycatch data, and more detailed data on the size and level of activity of the groundfish fleet.

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INTRODUCTION

The domestic groundfish fishery off Alaska has become an important segment of the U.S. fishing industry. With a total catch of 2.15 million metric tons (t), a retained catch of 1.83 million t, and an ex-vessel value of \$585 million in 1995, it accounted for 41% of the catch and 15% of the ex-vessel value of the catch off U.S. shores. The value of the 1995 catch after primary processing was estimated at \$1.39 billion.

The fishery management and development policies for the Bering Sea/Aleutian Islands area and Gulf of Alaska groundfish fisheries have resulted in high levels of catch, ex-vessel value, processed product value, exports, employment, and other measures of economic activity. However, open access management and the use of the race for fish as the principal mechanism for allocating the groundfish quotas and prohibited species catch limits among competing fishing operations have increased harvesting and processing costs as well as decreased the quantity and value of the resulting seafood products. Those management actions have resulted in user conflicts that have dominated the North Pacific Fishery Management Council's meeting agendas, decreased the time and resources available to address conservation issues, and increased the complexity, cost, and intrusiveness of fishery management.

This report presents the economic status of groundfish fisheries off Alaska in terms of economic activity and outputs using estimates of catch, ex-vessel prices and value, the size and level of activity of the groundfish fleet, the weight and value of processed products, wholesale prices, exports, and cold storage holdings. The catch, ex-vessel, ex-processor, and fleet size and activity data are for the fishing industry activities that are reflected in Weekly Production Reports, Observer Reports, fish tickets from processors who file Weekly Production Reports, and the annual survey of groundfish processors. All catch data for 1991-95 are now based on the blend estimates of total catch which are used by the National Marine Fisheries Service (NMFS) to monitor groundfish and prohibited species catch (PSC) quotas during each fishing year.

External factors which, in part, determine the economic status of the fisheries are also included. These include foreign exchange rates, the prices and price indexes of products that compete with products from these fisheries, and fishery imports. This report updates last year's document (Kinoshita et al. 1996) and is intended to serve as a reference document for those involved in making decisions with respect to conservation, management, and use of these fishery resources.

A brief overview of the economic status of the fisheries is followed by a more complete description of the status of the domestic fisheries in terms of the types of information listed above. The qualifications made in both the verbal description of the fisheries and the footnotes to the tables are critical in helping to avoid misunderstanding the information contained in this report.

OVERVIEW

The commercial groundfish catch off Alaska totaled 2.15 million t in 1995, off 1.7% from 1994 (Fig. 1). The decrease in catch was more than offset by a 28% increase in the average ex-vessel price of groundfish; and the estimated ex-vessel value of the catch, excluding the value added by at-sea processing, increased by 27% from \$461 million in 1994 to \$585 million in 1995 (Table 1). The value of the 1995 catch after primary processing was an estimated \$1.39 billion. The groundfish fisheries accounted for the largest share of the ex-vessel value of all commercial fisheries off Alaska in 1995 (40%), while the Pacific salmon (*Oncorhynchus* spp.) fishery was second with \$496 million or 33.9% of the total Alaska ex-vessel value (Fig. 2 and Table 1). The value of the shellfish catch amounted to \$195 million or 19.3% of the total for Alaska.

The exports of groundfish products from the Pacific Northwest and Alaska has been the driving force behind the growth of the groundfish fisheries off Alaska. The value of groundfish exports, including Pacific halibut (*Hippoglossus stenolepis*), increased from \$126 million in 1986 to \$1.11 billion in 1992, and totaled \$985 million in 1995 (Fig. 3 and Table 2). Exports of groundfish in 1995

accounted for 45.8% of all edible fishery products from the Pacific Northwest and Alaska, followed by salmon exports with \$792 million or 36.9%, and crab exports, with \$195 million or 9% of the total.

During the last 10 years, the total catch in the commercial groundfish fisheries off Alaska (including foreign and joint venture fisheries as well as the domestic fishery) varied between 1.85 and 2.38 million t (Table 3). The peak catch occurred in 1991, in part, because blend estimates of catch and bycatch were not yet used to monitor most quotas. If they had been, several fisheries would have been closed earlier in the year. There are three reasons why the catch estimates for 1988 through 1990 have a significant downward bias compared to the estimates for the other years. First, the domestic fishery accounted for a large part of total catch in 1988 through 1990. Second, discards were not included in the reported estimates of domestic catch prior to 1991. Based on estimates of the discard rates for 1992 through 1995, discards would have been about 16% of total catch. Finally, the blend estimates of catch net of at-sea discards tend to exceed the estimates based solely on industry reports and prior to 1991 only industry reports were used to estimate retained catch in the domestic fishery. Variations in the catch estimates also reflect changes in the total allowable catch (TAC), area closures, and bycatch restrictions.

Walleye (Alaska) pollock (*Theragra chalcogramma*) has been the dominant species in the commercial groundfish catch off Alaska. The pollock catch in 1995 totaled 1.4 million t and accounted for 65 % of the total groundfish catch of 2.15 million t (Table 3). The pollock catch was down 6.4% from 1994. The next major species, Pacific cod (*Gadus macrocephalus*), accounted for 314,200 t or 14.6% of the total 1995 groundfish catch. With a larger catch quota, the Pacific cod catch was up 30% from a year earlier. The 1995 catch of flatfish, which includes yellowfin sole (*Pleuronectes asper*), rock sole (*Pleuronectes bifineatus*), and arrowtooth flounder (*Atheresthes stomias*) was 264,300 t in 1995, down 8.7% from 1994. Pollock, Pacific cod, and flatfish comprised 92 % of the total 1995 catch. Other important species are sablefish (*Anoplopoma fimbria*), rockfish (*Sebastes and Sebastolobus* spp.), and Atka mackerel (*Pleurogrammus monopterygius*).

Table 4 gives the blend estimate of the retained, discarded, and total catch by gear, area, and groundfish species. Table 5 gives the discards and discard rate of the catch. The differences in discard rates by gear and processing mode are explained, in part, by differences in target species. Tables 6 and 7 break down the catch by area, gear, and target fishery. Tables 8 to 11 have the discards and discard rates by area, species, and gear. The discard rates vary by gear and target species. For the Gulf of Alaska, the overall groundfish discard rates were 12 % , 2%) and 18 % , respectively, for hook and line, pot, and trawl gear in 1995. The corresponding groundfish discard rates in the Bering Sea/Aleutian Islands area were 18 % , 5 % , and 14 % . Tables 12 to 15 have bycatch and bycatch rates of crab, halibut, herring, and salmon by area, target species, and gear.

Exchange rates and world supplies of fishery products play a major role in international trade. Exchange rates change rapidly and can significantly affect the economic status of the groundfish fisheries. There is also considerable uncertainty concerning the future conditions of stocks and the resulting quotas. The management actions taken to allocate the catch between various user groups can significantly affect the economic health of either the domestic fishery as a whole or segments of the fishery. Additional management actions that will decrease groundfish catches or increase operating costs may result from continued concerns with: 1) the bycatch of crab, halibut, salmon, and Pacific herring (*Clupea pullasi*); 2) the discard and utilization of groundfish catch; and 3) the effects of the groundfish fisheries on marine mammals. Relatively low guideline harvest levels for the three largest crab fisheries have resulted in more fishing vessels from the crab fisheries participating in the groundfish fisheries.

DOMESTIC FISHERY

Trawl, hook and line, and pots are the principal types of gear used in the domestic groundfish fishery. Annual catch for virtually every gear group, area, and species increased dramatically from 1985 to 1991 as the domestic fishery replaced the foreign and joint venture fisheries. In the last 5 years, the trawl catch averaged 92.5% of the total catch, while the catch with hook and line gear

accounted for 6.5 % (Table 16). Most species are harvested predominately by one type of gear, which typically accounts for 90% or more of the catch. The one exception is Pacific cod, where in 1995, 51.9% (163,000 t) was taken by trawls, 36.6% (115,000 t) by hook and line gear, and 11.5% (36,000 t) by pots (Table 16).

Catch for at-sea processing increased from 106,200 t in 1986 to 1,659,000 t in 1992, and decreased to 1,498,000 t by 1995 (Table 17). The catch for on-shore processing increased from 61,500 t in 1986 to 621,000 t in 1992 and to 649,000 t in 1995. The relative catch of these two types of operations vary by area and by species. In the Bering Sea/Aleutian Islands area, catch for at-sea processing exceeded that taken for on-shore processing for each species. In the Gulf of Alaska, catch for on-shore processing accounted for 73.5% of the total and, with the exception of flatfish and rockfish, accounted for the majority of the catch of each species.

Catch by residency of vessel owners are presented in Table 18. These data were extracted from the NMFS groundfish fish ticket and blend catch databases and from the State of Alaska vessel registration file which includes the stated residency of each vessel owner. For the domestic groundfish fishery as a whole, 85.1% of the 1995 catch was made by vessels with owners who indicated that they were not residents of Alaska. Vessels with owners who indicated that they were residents of Alaska accounted for 8.5% of the catch and the remaining 6.4% of the catch was taken by vessels for which the residence of the owner was not known. The catches of the two vessel residence groups were much closer to being equal in the Gulf of Alaska where Alaskan vessels accounted for the majority of the Pacific cod catch.

The ex-vessel value of the domestic landings, excluding the value added by at-sea processing, increased from \$548 million in 1991 to \$620 million in 1992, and was \$585 million in 1995 (Fig. 4 and Table 19). The ex-vessel value in 1995 increased by 27% from a year earlier, while catch was down 1.1% . Pollock was the dominant species with 50.8% of the total ex-vessel value, while accounting for

65% of the quantity. Sablefish accounted for 16% of the value compared with only 1.1% of the catch, and Pacific cod represented 19 % of the value and 14.6 % of the catch.

The 1995 ex-vessel value of the landings for at-sea processing and on-shore processing were \$352 million and \$233 million, respectively (Table 20). The dominance of at-sea processing is less when it is measured in terms, of ex-vessel value than when it is measured in terms of catch. Although catch for at-sea processing accounted for almost 70% of the catch, it accounted for only 60% of the ex-vessel value. This is because the on-shore processors have received a product mix with a larger proportion of higher priced species, including sablefish.

The percentage of catch taken by Alaskan vessels is also greater when measured in terms of ex-vessel value rather than in terms of weight. The estimated ex-vessel values of the 1995 catch of Alaskan vessels, other vessels; and vessels of unknown residence were \$93 million (15.9%), \$452.7 million (77.3%), and \$39.5 million (6.7%), respectively (Table 21).

The overall weighted average ex-vessel price, excluding the value added by at-sea processing, increased from 1991 to 1992, declined in 1993, rebounded slightly in 1994, and increased from \$0.113 per pound in 1994 to \$0.145 per pound, round weight in 1995. The average price of pollock increased from \$0.076 per pound in 1994 to \$0.104 in 1995 (Table 22). Average prices of sablefish rose by 34% from 1994. Pacific cod prices were up 22%, and rockfish prices increased by 4.8%. Average prices of flatfish in 1995 were down slightly or 4.7% from 1994.

The number of vessels harvesting groundfish off Alaska declined from a peak of 2,245 vessels in 1992 to 1,792 in 1995 (Table 23). Table 24 breaks out the number of vessels into three classes by the amount of groundfish caught. From 1992 to 1995, the number of trawl vessels that caught more than 25 tons of groundfish declined from 293 in 1992 to 266 in 1995 (Fig. 5). The number of vessels using hook and line gear that caught more than 25 tons of groundfish declined from 412 in 1992 to 314 vessels in 1995. The number of vessels using pot gear that caught more than 25 tons of groundfish decreased from 131 in 1992 to 78 in 1993 and then increased to 159 in 1995.

The numbers of vessels harvesting groundfish are presented by length class in Table 25, by processor category in Table 26, and by residency of vessel owner in Table 27. The seasonality of vessel deployment is depicted in Table 28 which gives the number of vessels that harvested groundfish by month, area, and gear. Tables 29 and 30 give the number of vessel weeks for catcher and catcher-processors.

Data on production of groundfish products by species are shown in Tables 31 to 33. The total product value in 1995 increased by 24% to an estimated \$1.39 billion from \$1.12 billion in 1994. The increase in prices of major groundfish products in 1995, including pollock surimi and pollock roe, accounted for much of the increase in product value for 1995. Production of pollock surimi declined by 2.1% in 1995 to 178,200 t, while the value increased by 19% to \$440 million. Pollock roe production increased by one-third to 15,900 t, and the value rose by more than 50%. With a larger cod quota, production of cod products were higher, and the value was over 40% above year earlier levels.

MARKETS

Annual and monthly wholesale prices for selected groundfish products F.O.B. East Coast are reported in Tables 34 and 35, respectively. After declining in 1993 and 1994, cod block prices increased by 8 % in 1995. Annual average prices of cod fillets in 1995 were down 4.4% from 1994. Domestic pollock block prices in 1995 rebounded by 16% after declining in 1993 and 1994. The Japanese landed and wholesale prices in Tables 36 and 37 were mixed for groundfish products in 1995.

Exports of edible groundfish products from Oregon, Washington, and Alaska customs districts in 1995 amounted to 834 million lb and \$985 million. These exports were just 0.1% higher by quantity and up 14% by value from the previous year. The increase in the value of groundfish exports resulted primarily from higher surimi and pollock roe prices. Groundfish exports in 1995 included \$85 million of cod, \$96 million of sablefish, \$117 million of flatfish (including \$14 million of halibut), \$164 million

of roe, and \$402 million of “other” fishery products which was dominated by \$349 million of surimi (Tables 38 and 39).

Japan continued to dominate the U.S. export market and the top four countries in 1995 purchased 97% of the total. Japan imported \$806 million of Northwest and Alaska edible groundfish products or 82% of the total value of \$985 million. The Republic of Korea was a distant second with purchases of \$76 million or 7.8% of the total. Canada was the third largest importer with \$41 million, followed by People’s Republic of China with \$28 million.

The economic status of these fisheries is also dependent on U.S. imports of competing fishery products. The import data in Table 40 provide information on both the potential level of import substitution that might be possible and the prices with which domestic products compete. Imports of groundfish blocks and fillets in 1995 totaled 442 million pounds (lb) and valued at \$650 million. Imports of blocks and fillets in 1995 were up 3.3 % by quantity and 5.3 % by value from a year earlier and down by about one-half from their peak in 1987.

Changes in the size of the domestic market are reflected by the upward trend in U.S. per capita consumption of fishery products from 12.5 lb per capita in 1980 to 16.2 lb in 1987. Since 1987, per capita consumption has declined, and stood at 15.0 lb in 1995. Per capita consumption of fresh and frozen fish increased from 7.9 lb in 1980 to 10.0 lb in 1995. There was a 0.4 lb decline in the 1995 total per capita consumption of fresh and frozen fish and shellfish from a year earlier, while per capita consumption of canned fish and cured fish increased by 0.2 lb from 1994 (Table 41). Not all seafood products have exhibited an increase in per capita consumption. While per capita consumption of fillets and steaks increased by 29% between 1980 and 1995, consumption of fish sticks and portions declined by 35 % (Table 42). However, since 1987 per capita consumption of fillets and steaks has declined 13.4% to 3.0 lb, and stick and portion consumption has declined 26.6% to 1.27 lb in 1995.

Fishery products from the groundfish fisheries off Alaska compete in domestic markets with other fishery products, meat, poultry, and other food products. The producer and consumer price

indexes for these products are presented in Tables 43 and 44. In 1995, the producer price index (PPI) increased by 3.6% from 1994, while the consumer price index (CPI) rose 2.8% from the previous year. The increase in the CPI was lower than the annual average increase of 4.7% in the 1980s. Consumer price indexes for poultry and fish increased by 1.3% and 4.9%, respectively, in 1995, while meat prices rose by less than 0.1% from 1994.

Due to both the large amount of groundfish that is exported from the fisheries off Alaska and the large quantities of imported products that compete in the domestic market, foreign exchange rates have significant effects on the prices in these fisheries. In 1995, the value of the U.S. dollar was weaker compared to the Japanese yen and the Republic of Korea's won, and gained slightly against the Canadian dollar from the previous year (Tables 45 and 46). The annual value of the U.S. dollar relative to the Japanese yen declined another 8 % to 94.1 yen to the U.S. dollar from 103.2 yen in 1994. The cheaper U.S. dollar makes U.S. exports less expensive in Japan. The U.S. dollar in 1995 was up 0.5% relative to the Canadian dollar and lost 4% relative to the Korean won from 1994.

The levels of fishery product cold storage holdings provide another measure of the condition of groundfish markets. U.S. holdings of selected groundfish blocks and fillets are reported in Tables 47 and 48. U.S. cold storage holdings of groundfish blocks and fillets on 31 December 1995 were down just 2.4% from a year earlier and down 15 % compared with the 1990-94 average 31 December holdings.

While U.S. holdings offer an overall view of the U.S. groundfish market, U.S. West Coast holdings provide a regional view of the supply of West Coast groundfish products (Table 49). Holdings of pollock fillets, cod fillets, surimi, and analog products on the West Coast have grown with increases in production over the last 5 years. Holdings of pollock fillets on 31 December 1995 were down 34% from a year earlier, cod fillets were 134% higher, holdings of surimi were up 15.8%, while analog products were up 2.8 % from a year earlier.

CITATIONS

Kinoshita, R. K., A. Greig, and J. M. Terry. 1996. Economic status of the groundfish fisheries off Alaska, 1994. U.S. Dep. Commer., NOAA Tech. Memo. NMFS-AFSC-62, 108 p.

National Marine Fisheries Service. 1996. Fisheries of the United States, 1995. U.S. Dep. Commer., Current Fish. Stat. No. 9500, July 1996, 126 p. Available Sup. Doc., U.S. Gov. Print. Off., Washington, DC 20402.

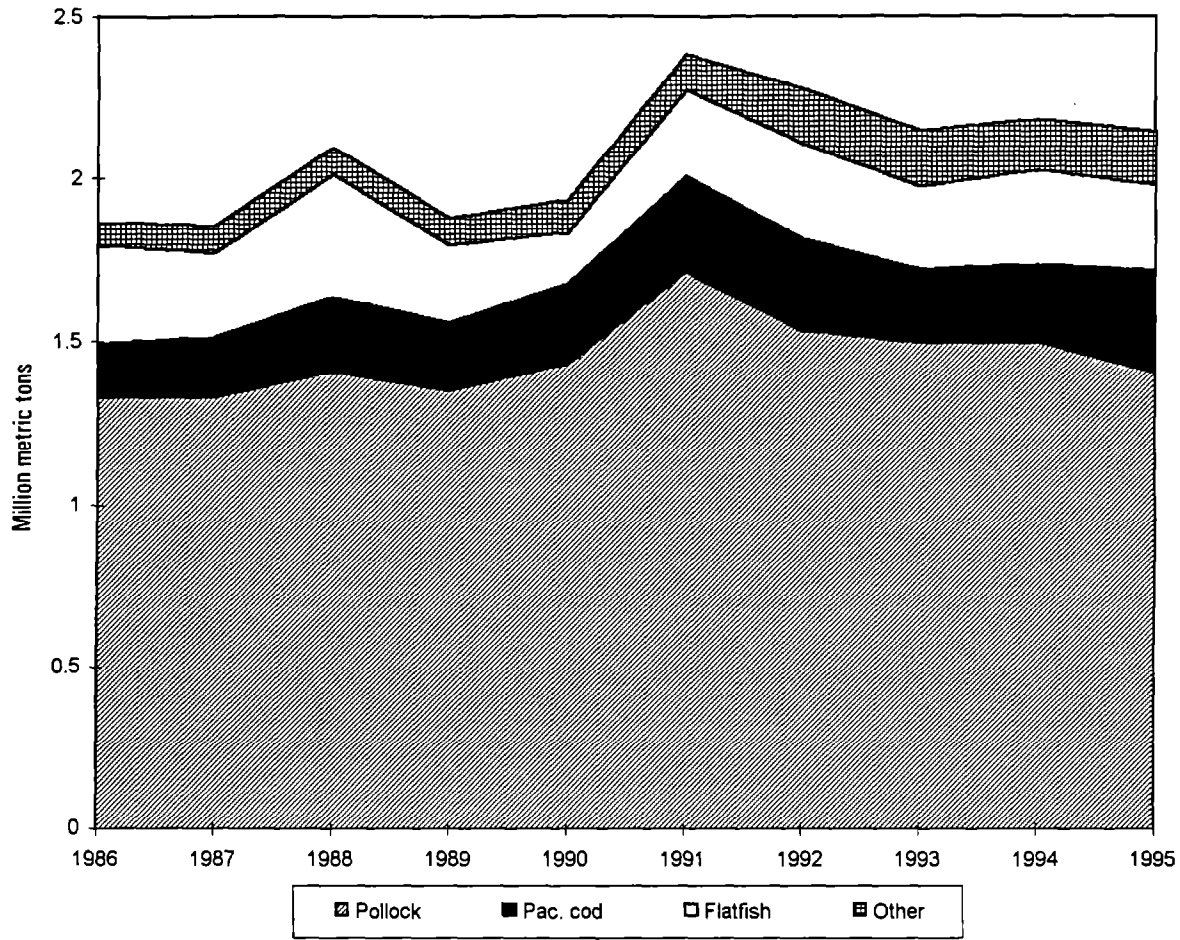


Figure 1.--Groundfish catch in the commercial fisheries off Alaska by species, 1986-95.

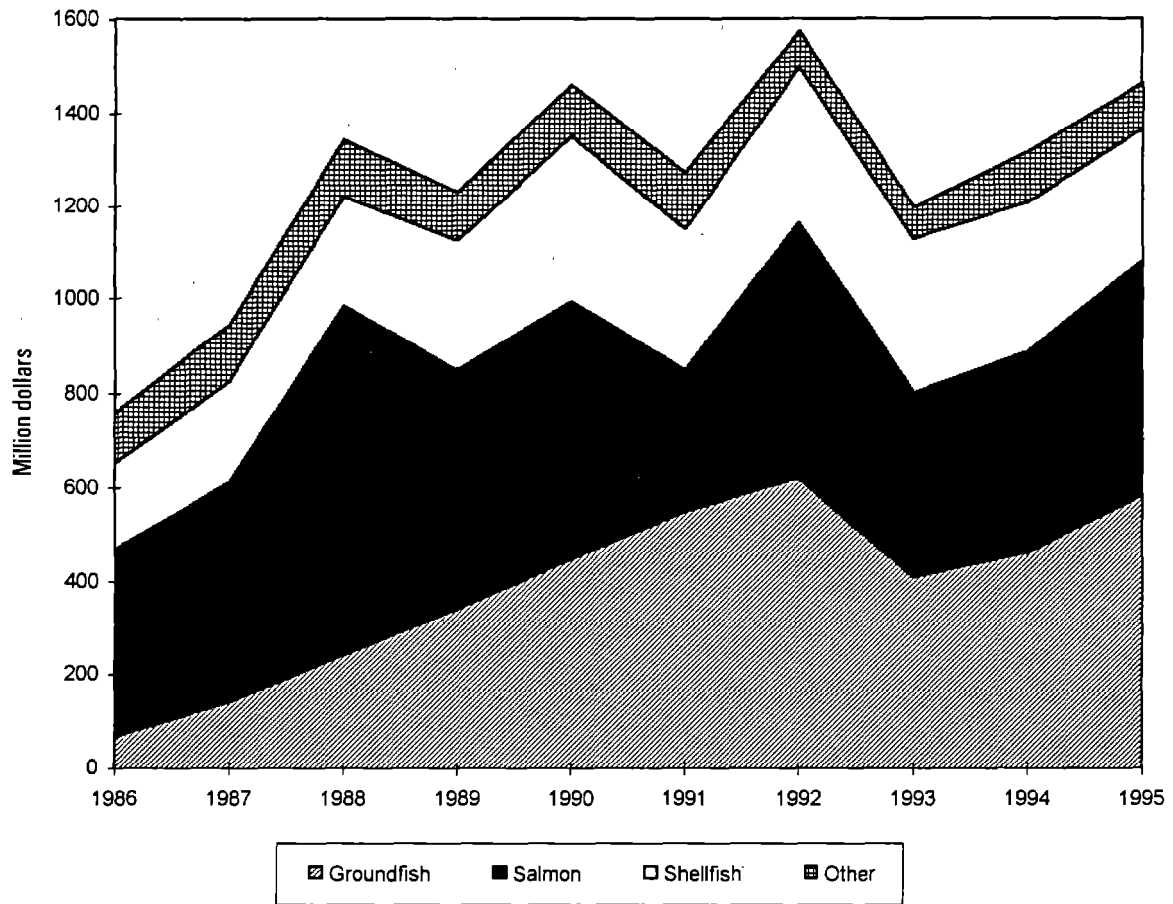


Figure 2.--Ex-vessel value of the domestic fish and shellfish catch off Alaska, 1986-95.

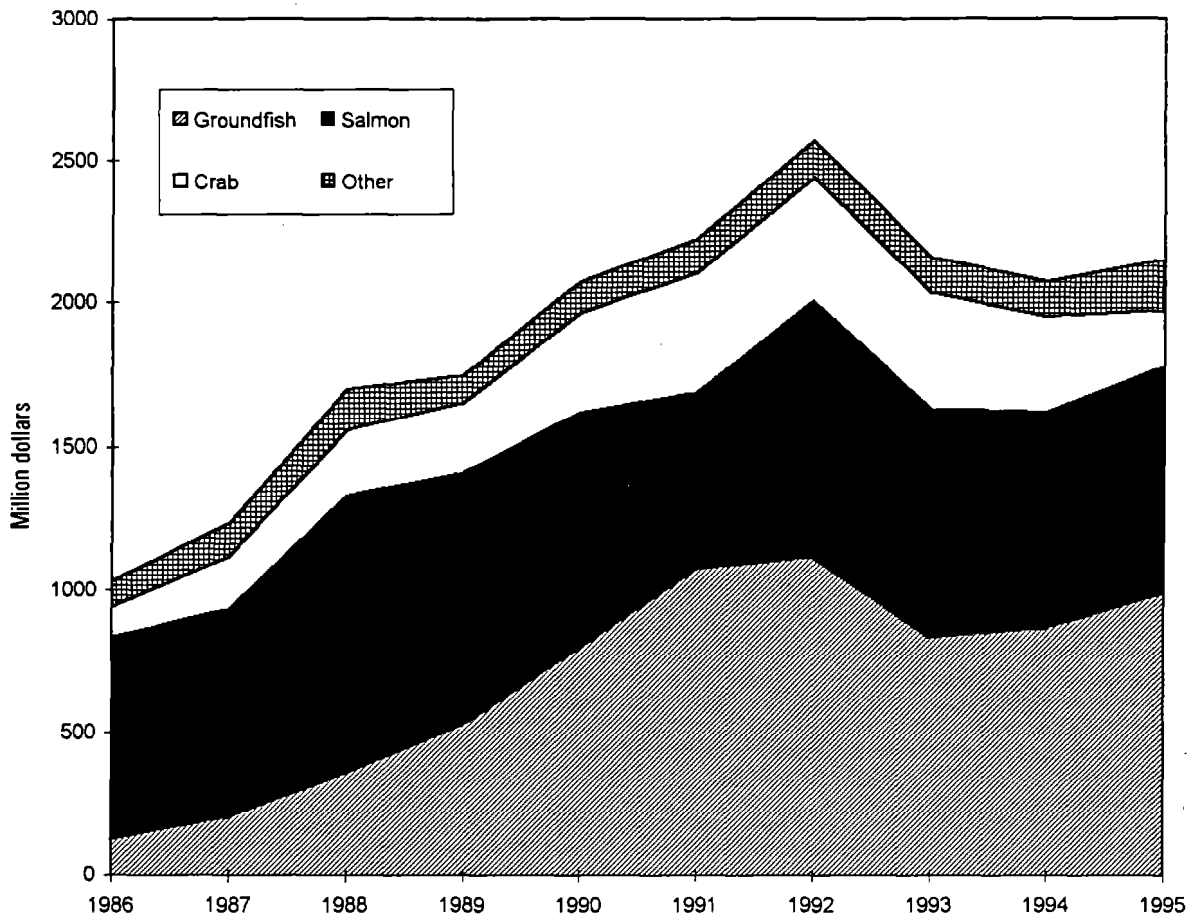


Figure 3.--Pacific Northwest and Alaska exports of edible fishery products by major product groups, 1986-95.

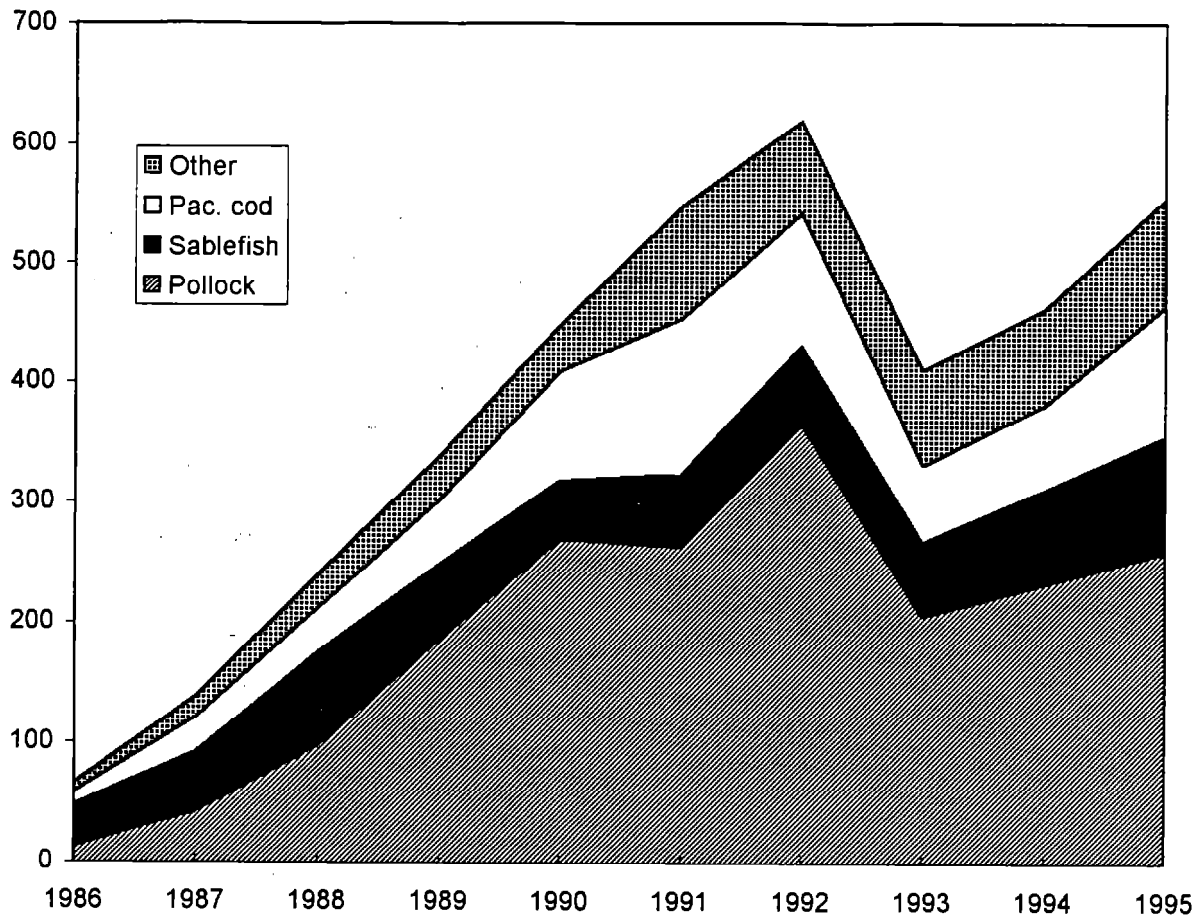


Figure 4.--Ex-vessel value of the domestic groundfish catch off Alaska by species, 1986-95.

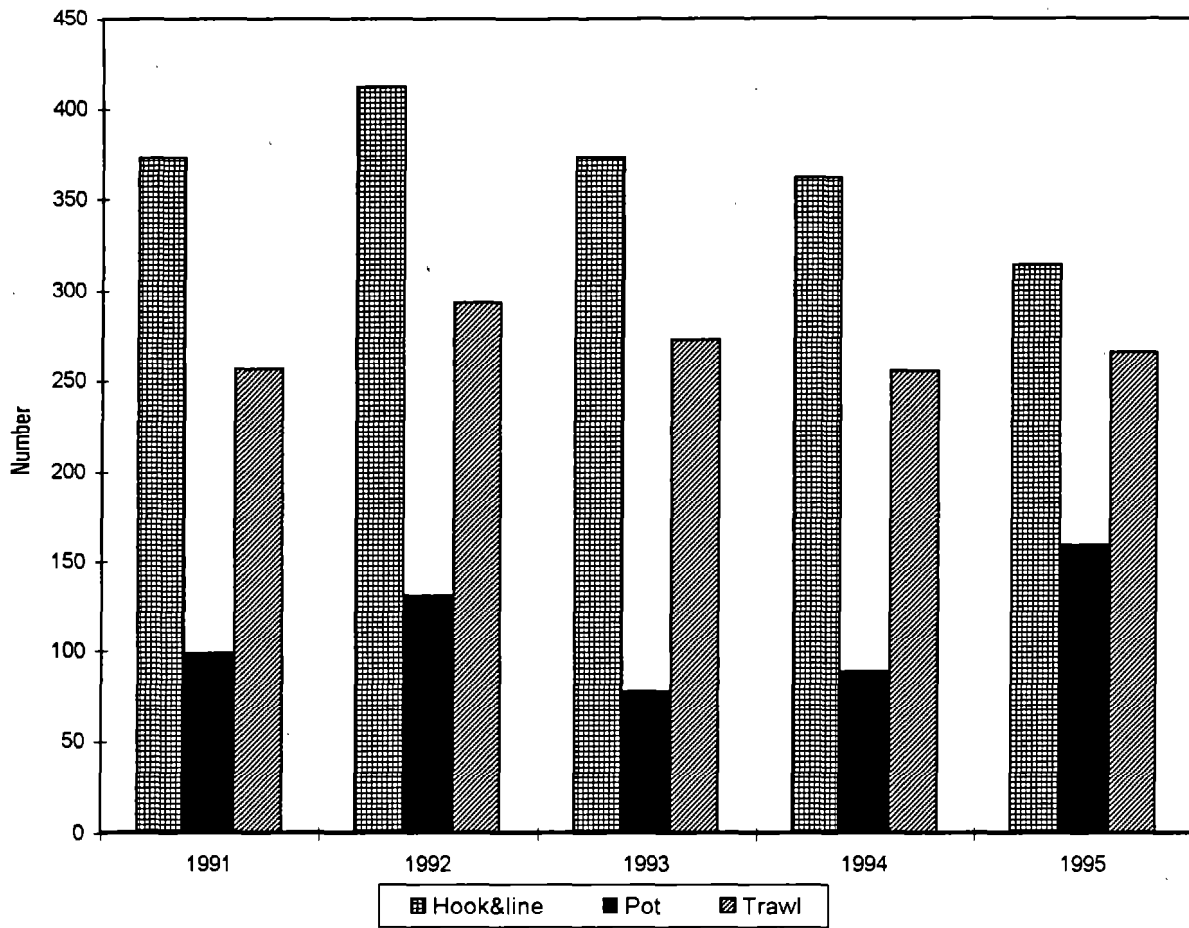


Figure 5.--Number of vessels that landed more than 25 tons of groundfish in the domestic fishery off Alaska by gear type, 1991-95.

Table 1.--Ex-vessel value of the catch in the commercial fisheries off Alaska by species group, 1982-95, (\$ millions and percentage of total).

Year	Shellfish	Salmon	Herring	Halibut	Groundfish	Total
Value (\$ millions)						
1982	216.5	310.7	19.9	25.7	211.0	783.8
1983	147.7	320.6	29.8	43.0	188.0	729.1
1984	103.4	343.0	20.4	19.6	239.4	725.8
1985	106.9	389.6	36.9	37.5	260.1	831.0
1986	183.0	404.1	38.4	70.1	268.6	964.2
1987	215.2	473.0	41.7	76.3	336.7	1,142.9
1988	235.6	744.9	56.0	66.1	444.6	1,547.1
1989	279.2	506.7	18.7	84.4	425.3	1,314.3
1990	355.1	546.7	24.0	86.9	474.9	1,487.6
1991	301.1	300.1	28.6	91.6	548.3	1,269.7
1992	335.1	544.5	27.0	48.0	619.7	1,574.3
1993	328.5	391.1	14.1	53.6	409.3	1,196.6
1994	321.2	424.4	21.6	84.7	460.9	1,312.8
1995	282.9	495.9	39.1	59.5	585.3	1,462.7
Percentage of total						
1982	27.6	39.6	2.5	3.3	26.9	100.0
1983	20.3	44.0	4.1	5.9	25.8	100.0
1984	14.2	47.3	2.8	2.7	33.0	100.0
1985	12.9	46.9	4.4	4.5	31.3	100.0
1986	19.0	41.9	4.0	7.3	27.9	100.0
1987	18.8	41.4	3.6	6.7	29.5	100.0
1988	15.2	48.2	3.6	4.3	28.7	100.0
1989	21.2	38.6	1.4	6.4	32.4	100.0
1990	23.9	36.8	1.6	5.8	31.9	100.0
1991	23.7	23.6	2.3	7.2	43.2	100.0
1992	21.3	34.6	1.7	3.0	39.4	100.0
1993	27.4	32.7	1.2	4.5	34.2	100.0
1994	24.5	32.3	1.6	6.5	35.1	100.0
1995	19.3	33.9	2.7	4.1	40.0	100.0

Note: The value added by at-sea processing is not included in these estimates of ex-vessel value. Includes joint venture and foreign groundfish catch.

Source: National Marine Fisheries Service, Alaska Region; National Marine Fisheries Service office of the Pacific Marine Fisheries Commission, Pacific Fisheries Information Network, 7600 Sand Point Way N.E., BIN C15700, Seattle, WA 98115-0070.

Table 2.--Value of Pacific Northwest and Alaska exports of edible fishery products or product groups (\$ millions and percentage of total), 1982-95.

Year	Salmon	Herring	Other finfish*	Crab	Other	Total
Value (\$ millions)						
1982	531	60	25	87	36	739
1983	510	67	23	40	29	668
1984	480	60	47	36	25	648
1985	597	104	66	53	17	837
1986	707	78	126	107	16	1,034
1987	728	93	204	184	24	1,232
1988	967	115	358	231	29	1,700
1989	878	59	531	242	37	1,747
1990	822	71	795	345	38	2,071
1991	612	76	1,074	417	39	2,218
1992	891	89	1,112	433	45	2,570
1993	798	73	833	403	47	2,154
1994	754	73	863	331	51	2,072
1995	792	103	985	195	73	2,148
Percentage of total						
1982	71.9	8.1	3.3	11.8	4.9	100.0
1983	76.3	10.0	3.4	6.0	4.3	100.0
1984	74.1	9.3	7.2	5.5	3.9	100.0
1985	71.3	12.4	7.9	6.4	2.0	100.0
1986	68.4	7.5	12.2	10.4	1.5	100.0
1987	59.1	7.5	16.6	14.9	1.9	100.0
1988	56.9	6.8	21.0	13.6	1.7	100.0
1989	50.3	3.4	30.4	13.8	2.1	100.0
1990	39.7	3.4	38.4	16.7	1.8	100.0
1991	27.6	3.4	48.4	18.8	1.8	100.0
1992	34.7	3.5	43.3	16.8	1.7	100.0
1993	37.0	3.4	38.7	18.7	2.2	100.0
1994	36.4	3.5	41.6	16.0	2.5	100.0
1995	36.9	4.8	45.8	9.1	3.4	100.0

Notes: * Other fresh, frozen, canned, cured, roe, and processed finfish excluding salmon, herring, and other nongroundfish species. Discrepancies in totals are due to rounding.

Sources: U.S. Dep. Commer., Bur. of the Census; database from National Marine Fisheries Service, Fish. Stat. Div., Silver Spring, MD 20910; Alaska Fisheries Science Center, 7600 Sand Point Way N.E., BIN C15700, Seattle, WA 98115-0070.

Table 3.--Groundfish catch in the commercial fisheries off Alaska by area and species, 1986-95, (1,000 metric tons, round weight).

	Pollock	Sablefish	Pacific cod	Flatfish	Rockfish	Atka mackerel	Total
Gulf of Alaska							
1986	84.0	21.7	24.6	2.6	8.0	.0	140.9
1987	62.7	26.5	31.4	9.9	12.9	.0	143.4
1988	55.9	31.0	32.6	8.8	18.4	.1	146.8
1989	66.6	29.8	41.8	5.2	23.4	.2	167.0
1990	77.8	27.3	74.6	15.4	21.1	.1	216.3
1991	100.5	23.1	76.3	34.1	20.5	1.2	259.9
1992	93.5	23.4	80.1	43.6	24.9	8.6	284.1
1993	108.9	24.8	56.5	39.5	19.7	5.1	261.4
1994	107.3	22.5	47.5	36.0	16.1	3.5	235.8
1995	73.2	20.8	69.1	32.3	19.3	.7	218.8
Bering Sea and Aleutian Islands							
1986	1,245.3	6.6	138.1	301.4	1.6	32.0	1,725.0
1987	1,263.6	7.9	157.6	247.3	3.6	30.0	1,710.0
1988	1,349.0	6.6	197.1	369.5	4.7	22.6	1,949.5
1989	1,281.5	4.5	168.4	230.8	7.3	18.3	1,710.8
1990	1,352.9	4.5	171.0	141.8	25.2	22.2	1,717.6
1991	1,610.3	3.4	220.0	233.6	8.6	26.6	2,125.1
1992	1,438.4	2.1	205.4	248.6	18.2	49.4	1,996.0
1993	1,384.6	2.7	167.4	216.9	24.7	66.0	1,887.2
1994	1,388.6	2.4	193.8	253.4	18.7	65.4	1,947.2
1995	1,327.5	2.1	245.1	232.0	16.8	81.6	1,927.7
All Alaska							
1986	1,329.3	28.3	162.7	304.0	9.6	32.0	1,865.9
1987	1,326.3	34.4	189.0	257.2	16.5	30.0	1,853.4
1988	1,404.9	37.6	229.7	378.3	23.1	22.7	2,096.3
1989	1,348.1	34.3	210.2	236.0	30.7	18.5	1,877.8
1990	1,430.7	31.8	245.6	157.2	46.3	22.3	1,933.9
1991	1,710.8	26.5	296.4	267.7	29.1	27.9	2,384.9
1992	1,531.8	25.5	285.4	292.1	43.2	58.0	2,280.0
1993	1,493.5	27.5	223.9	256.4	44.4	71.2	2,148.6
1994	1,495.9	24.9	241.3	289.4	34.8	68.9	2,183.0
1995	1,400.7	22.9	314.2	264.3	36.1	82.3	2,146.5

Notes: Totals may include additional categories.

Source: Blend estimates for 1991-95. Processor reports and fish tickets for 1986-90. National Marine Fisheries Service, 7600 Sand Point Way N.E., BIN C15700, Seattle, WA 98115-0070.

Table 4.--Retained, discarded, and total groundfish catch off Alaska by area, gear, and species, 1991-95, (1,000 metric tons, round weight).

Area/Species/Year	Fixed			Trawl			All gear		
	Retained	Discard	Total	Retained	Discard	Total	Retained	Discard	Total
Gulf of Alaska									
All groundfish									
1991	40.2	1.0	41.1	183.6	35.1	218.7	223.8	36.1	259.9
1992	47.6	8.1	55.6	175.6	52.7	228.2	223.3	60.7	284.1
1993	41.6	6.7	48.3	167.7	45.2	212.9	209.4	51.9	261.4
1994	37.2	3.2	40.4	155.0	40.3	195.3	192.3	43.5	235.8
1995	46.8	4.3	51.0	132.8	35.0	167.8	179.6	39.3	218.8
Pollock									
1991	.0	.1	.1	91.2	9.2	100.4	91.2	9.3	100.5
1992	.0	.1	.1	77.8	15.5	93.4	77.8	15.6	93.5
1993	.0	.0	.0	100.6	8.2	108.9	100.6	8.3	108.9
1994	.0	.0	.0	101.0	6.3	107.2	101.0	6.3	107.3
1995	.1	.0	.1	65.2	7.9	73.2	65.3	8.0	73.2
Sablefish									
1991	20.5	.0	20.5	2.3	.2	2.5	22.8	.3	23.1
1992	20.3	.4	20.7	2.1	.6	2.7	22.4	1.0	23.4
1993	22.0	.4	22.4	2.0	.4	2.4	23.9	.8	24.8
1994	19.9	.2	20.1	1.9	.5	2.4	21.8	.7	22.5
1995	18.2	.4	18.6	1.5	.7	2.2	19.6	1.2	20.8
Pacific cod									
1991	18.0	.2	18.2	56.9	1.2	58.1	74.9	1.4	76.3
1992	24.9	.7	25.6	51.2	3.1	54.3	76.3	3.8	80.1
1993	17.9	.8	18.7	32.7	5.1	37.8	50.6	5.9	56.5
1994	15.6	.5	16.0	28.8	2.7	31.4	44.4	3.1	47.5
1995	26.6	.6	27.2	38.9	2.9	41.9	65.5	3.5	69.1
Flatfish									
1991	.0	.3	.3	14.7	19.1	33.8	14.7	19.4	34.1
1992	.0	4.7	4.8	14.7	24.1	38.8	14.7	28.9	43.6
1993	.1	3.0	3.0	15.2	21.3	36.5	15.3	24.2	39.5
1994	.1	.9	1.0	10.4	24.7	35.1	10.5	25.5	36.0
1995	.1	1.7	1.8	12.9	17.6	30.5	13.0	19.3	32.3
Rockfish									
1991	1.6	.1	1.7	15.5	3.3	18.8	17.1	3.4	20.5
1992	2.3	.7	2.9	16.8	5.2	22.0	19.1	5.9	24.9
1993	1.6	.7	2.3	10.6	6.7	17.3	12.4	7.3	19.7
1994	1.6	.9	2.6	9.6	3.9	13.6	11.3	4.8	16.1
1995	1.7	.4	2.1	13.6	3.6	17.2	15.3	4.0	19.3
Atka mackerel									
1991	-	.0	.0	1.1	.1	1.2	1.1	.1	1.2
1992	-	.0	.0	8.2	.4	8.6	8.2	.4	8.6
1993	-	.0	.0	4.7	.4	5.1	4.7	.4	5.1
1994	-	.0	.0	3.3	.3	3.5	3.3	.3	3.5
1995	-	.0	.0	.5	.2	.7	.5	.2	.7

Table 4.--Continued.

Area/Species/Year	Fixed		Trawl		All gear				
	Retained	Discard	Total	Retained	Discard	Total	Retained	Discard	Total
Bering Sea and Aleutian Islands									
All groundfish									
1991	90.4	14.3	104.6	1,749.8	270.3	2,020.1	1,840.5	284.6	2,125.1
1992	116.8	21.0	137.8	1,563.3	294.6	1,857.9	1,680.2	315.7	1,996.0
1993	74.6	17.7	92.3	1,516.1	278.6	1,794.7	1,590.8	296.3	1,887.2
1994	96.7	20.0	116.7	1,563.3	266.2	1,829.5	1,660.9	286.3	1,947.2
1995	124.6	23.5	148.1	1,529.0	250.5	1,779.6	1,653.7	274.0	1,927.7
Pollock									
1991	.1	2.4	2.6	1,469.2	138.2	1,607.4	1,469.7	140.6	1,610.3
1992	.1	3.1	3.2	1,307.5	127.7	1,435.2	1,307.6	130.8	1,438.4
1993	.3	1.9	2.2	1,272.1	110.2	1,382.4	1,272.5	112.1	1,384.6
1994	.3	2.5	2.8	1,281.8	103.0	1,384.8	1,283.0	105.6	1,388.6
1995	.4	2.7	3.1	1,228.2	96.1	1,324.4	1,228.7	98.8	1,327.5
Sablefish									
1991	2.8	.0	2.9	.5	.0	.5	3.3	.1	3.4
1992	2.0	.0	2.0	.1	.0	.1	2.1	.0	2.1
1993	2.6	.0	2.6	.1	.0	.1	2.7	.1	2.7
1994	1.9	.0	1.9	.5	.1	.5	2.3	.1	2.4
1995	1.5	.2	1.6	.4	.0	.4	1.9	.2	2.1
Pacific cod									
1991	85.4	1.8	87.2	117.3	15.5	132.8	202.7	17.3	220.0
1992	112.7	2.2	114.9	68.5	21.7	90.3	181.3	24.0	205.4
1993	63.8	4.5	68.3	66.5	32.6	99.1	130.3	37.1	167.4
1994	91.2	3.3	94.5	69.8	29.5	99.3	160.9	32.9	193.8
1995	118.1	5.6	123.8	83.8	37.5	121.3	202.0	43.2	245.1
Flatfish									
1991	.3	3.9	4.3	131.7	97.6	229.3	132.1	101.5	233.6
1992	.5	4.0	4.5	132.5	111.6	244.1	132.9	115.6	248.6
1993	6.2	3.0	9.2	110.4	97.3	207.7	116.7	100.3	216.9
1994	1.7	4.4	6.1	142.5	104.9	247.3	144.2	109.2	253.4
1995	2.7	4.3	6.9	138.1	87.0	225.1	140.8	91.3	232.0
Rockfish									
1991	.3	.1	.3	6.0	2.2	8.3	6.3	2.3	8.6
1992	.6	.5	1.1	13.1	4.0	17.1	13.8	4.5	18.2
1993	.6	.4	1.0	15.9	7.8	23.7	16.5	8.2	24.7
1994	.4	.1	.5	12.2	6.0	18.2	12.5	6.2	18.7
1995	.3	.1	.4	11.4	5.0	16.4	11.6	5.1	16.8
Atka mackerel									
1991	.0	.0	.0	23.2	3.4	26.6	23.2	3.4	26.6
1992	.0	.0	.1	39.8	9.6	49.4	39.8	9.6	49.4
1993	.0	.0	.0	50.2	15.7	66.0	50.2	15.8	66.0
1994	.0	.1	.1	56.0	9.2	65.2	56.0	9.3	65.4
1995	.0	.1	.1	66.7	14.8	81.4	66.7	14.9	81.6

Table 4.--Continued.

Area/Species/Year	Fixed		Trawl			All gear				
	Retained	Discard	Total	Retained	Discard	Total	Retained	Discard	Total	
All Alaska										
All groundfish										
1991	130.5	15.3	145.8	1,933.4	305.4	2,238.8	2,064.3	320.6	2,384.9	
1992	164.4	29.1	193.5	1,738.9	347.3	2,086.2	1,903.6	376.5	2,280.0	
1993	116.2	24.4	140.6	1,683.8	323.9	2,007.6	1,800.3	348.3	2,148.6	
1994	133.9	23.2	157.1	1,718.3	306.5	2,024.8	1,853.2	329.8	2,183.0	
1995	171.4	27.7	199.1	1,661.8	285.5	1,947.4	1,833.2	313.3	2,146.5	
Pollock										
1991	.1	2.6	2.7	1,560.4	147.4	1,707.8	1,560.9	149.9	1,710.8	
1992	.1	3.2	3.3	1,385.3	143.3	1,528.5	1,385.4	146.4	1,531.8	
1993	.3	1.9	2.2	1,372.8	118.4	1,491.2	1,373.1	120.4	1,493.5	
1994	.3	2.5	2.8	1,382.8	109.3	1,492.1	1,384.0	111.9	1,495.9	
1995	.5	2.7	3.2	1,293.5	104.1	1,397.5	1,293.9	106.8	1,400.7	
Sablefish										
1991	23.3	.1	23.4	2.8	.3	3.1	26.2	.3	26.5	
1992	22.3	.4	22.7	2.2	.6	2.8	24.4	1.0	25.5	
1993	24.6	.4	25.0	2.1	.4	2.5	26.6	.9	27.5	
1994	21.8	.2	22.0	2.3	.6	2.9	24.1	.9	24.9	
1995	19.7	.6	20.3	1.8	.8	2.6	21.5	1.4	22.9	
Pacific cod										
1991	103.4	2.0	105.5	174.2	16.7	190.9	277.6	18.7	296.4	
1992	137.6	2.9	140.5	119.8	24.8	144.6	257.6	27.8	285.4	
1993	81.7	5.3	86.9	99.2	37.7	136.9	180.9	43.0	223.9	
1994	106.7	3.8	110.5	98.6	32.2	130.8	205.3	36.0	241.3	
1995	144.7	6.3	151.0	122.8	40.5	163.2	267.5	46.7	314.2	
Flatfish										
1991	.4	4.2	4.6	146.5	116.7	263.1	146.8	120.9	267.7	
1992	.5	8.7	9.2	147.1	135.8	282.9	147.6	144.5	292.1	
1993	6.3	5.9	12.2	125.6	118.6	244.2	131.9	124.5	256.4	
1994	1.8	5.2	7.0	152.9	129.5	282.4	154.7	134.8	289.4	
1995	2.8	5.9	8.7	151.0	104.6	255.6	153.8	110.5	264.3	
Rockfish										
1991	1.9	.2	2.1	21.5	5.5	27.0	23.4	5.7	29.1	
1992	2.9	1.1	4.0	29.9	9.2	39.1	32.8	10.3	43.2	
1993	2.2	1.1	3.3	26.5	14.5	41.0	28.9	15.5	44.4	
1994	2.0	1.1	3.1	21.8	9.9	31.8	23.8	11.0	34.8	
1995	2.0	.6	2.6	25.0	8.6	33.5	26.9	9.1	36.1	
Atka mackerel										
1991	.0	.0	.0	24.4	3.5	27.9	24.4	3.5	27.9	
1992	.0	.0	.1	48.0	10.0	57.9	48.0	10.0	58.0	
1993	.0	.0	.0	55.0	16.1	71.1	55.0	16.2	71.2	
1994	.0	.1	.1	59.3	9.5	68.8	59.3	9.6	68.9	
1995	.0	.1	.1	67.2	15.0	82.1	67.2	15.1	82.3	

Notes: All groundfish and all gear may include additional categories.

Source: Blend estimates, National Marine Fisheries Service, 7600 Sand Point Way N.E., BIN C15700, Seattle, WA 98115-0070.

Table 5.--Discards and discard rate of the groundfish catch off Alaska by area, gear, and processing mode, 1991-95, (1,000 metric tons, round weight).

	At-sea			On-shore		
	Fixed	Trawl	All gear	Fixed	Trawl	All gear
Gulf of Alaska						
Discards						
1991	0	27	27	1	8	9
1992	1	28	29	7	25	32
1993	1	23	25	6	22	27
1994	1	23	24	2	18	20
1995	1	20	21	3	15	18
Discard rate						
1991	.04	.29	.28	.02	.06	.05
1992	.07	.33	.30	.17	.17	.17
1993	.12	.37	.34	.15	.15	.15
1994	.12	.53	.47	.07	.12	.11
1995	.09	.41	.36	.08	.13	.11
Bering Sea and Aleutian Islands						
Discards						
1991	14	254	268	1	16	17
1992	19	281	301	2	13	15
1993	17	237	254	1	42	43
1994	18	234	253	2	32	34
1995	20	222	242	4	28	32
Discard rate						
1991	.14	.16	.16	.16	.04	.04
1992	.15	.19	.19	.22	.04	.04
1993	.19	.17	.18	.18	.10	.10
1994	.17	.18	.18	.21	.06	.07
1995	.15	.17	.17	.18	.06	.07
All Alaska						
Discards						
1991	14	281	295	1	24	26
1992	20	309	330	9	38	47
1993	18	260	278	6	64	70
1994	19	257	276	4	49	54
1995	21	242	263	7	43	51
Discard rate						
1991	.13	.17	.17	.04	.04	.04
1992	.14	.20	.19	.18	.07	.08
1993	.18	.18	.18	.15	.11	.11
1994	.16	.19	.19	.10	.08	.08
1995	.15	.18	.18	.11	.07	.08

Notes: All gear may include additional categories.

Source: Blend estimates, National Marine Fisheries Service, 7600 Sand Point Way N.E., BIN C15700, Seattle, WA 98115-0070.

Table 6.--Gulf of Alaska groundfish catch by species, gear, and target fishery, 1.994-95 (1,000 metric tons, round weight).

	Species											
	Pollock	Sable- fish	Pacific cod	Arrow- tooth	Flathd. sole	Rex sole	Flat deep	Flat shallow	Rock- fish	Atka mack.	Other	Total
Year/Gear/Target												
1994												
Hook and line												
Sablefish	.0	20.1	.3	.8	.0	-	.0	.0	1.6	-	.4	23.2
Pacific cod	.0	.0	6.6	.0	.0	-	.0	.0	.1	.0	.2	6.9
Rockfish	.0	.0	.1	.0	-	-	.0	-	.9	-	.0	1.0
Total	.0	20.1	6.9	.9	.0	.0	.0	.0	2.6	.0	.6	31.1
Pot												
Pacific cod	.0	.0	9.1	.0	-	-	-	.0	.0	.0	.1	9.2
Flat shallow	-	-	-	-	-	-	-	.1	-	-	-	.1
Total	.0	.0	9.1	.0	-	-	-	.1	.0	.0	.1	9.3
Trawl												
Pollock												
bottom	5.7	.0	.7	.7	.1	.0	.0	.1	.0	.0	.0	7.4
pelagic	97.6	.0	.3	.4	.0	.0	.0	.0	.0	.0	.1	98.4
Sablefish	.0	.1	.0	.2	.0	.0	.0	.0	.1	-	.0	.4
Pacific cod	2.2	.0	28.1	3.2	.2	.1	.1	.8	.2	.0	.5	35.5
Arrowtooth	.2	.0	.1	.6	.1	.1	.0	.1	.0	-	.1	1.3
Flathd. sole	.3	.1	.4	1.1	.9	.1	.1	.2	.1	.0	.1	3.2
Rex sole	.7	.5	.8	10.8	.4	2.4	.5	.1	.7	.0	.6	17.5
Flat deep	.0	.6	.3	3.1	.3	.5	2.0	.3	.7	.0	.2	7.9
Flat shallow	.4	.1	.5	1.0	.4	.2	.2	2.2	.1	-	.4	5.6
Rockfish	.1	1.0	.2	1.0	.0	.1	.2	.0	11.5	.3	.1	14.4
Atka mack.	.0	.0	.1	.1	.0	.0	.0	.0	.3	3.3	.0	3.8
Total	107.2	2.4	31.4	22.1	2.5	3.6	3.1	3.8	13.6	3.5	2.1	195.3
All gear												
Total	107.3	22.5	47.5	23.0	2.5	3.6	3.1	3.8	16.1	3.5	2.7	235.8

Table 6.--Continued.

	Species											
	Pollock	Sable- fish	Pacific cod	Arrow- tooth	Flathd. sole	Rex sole	Flat deep	Flat shallow	Rock- fish	Atka mack.	Other	Total
Year/Gear/Target												
1995												
Hook and line												
Sablefish	.0	18.5	.3	1.0	.0	-	.1	.0	1.3	-	.4	21.5
Pacific cod	.1	.0	10.8	.6	.0	.0	.0	.0	.1	.0	.7	12.3
Flat deep	-	.0	-	.0	-	-	.1	-	.0	-	.0	.1
Rockfish	-	.0	.0	.0	-	-	.0	-	.8	-	.0	.8
Total	.1	18.6	11.1	1.6	.0	.0	.1	.0	2.1	.0	1.1	34.8
Pot												
Pacific cod	.0	.0	16.1	.0	-	-	-	.0	.0	.0	.2	16.2
Total	.0	.0	16.1	.0	-	-	-	.0	.0	.0	.2	16.2
Trawl												
Pollock												
bottom	3.7	.0	.4	.1	.1	.0	.0	.0	.0	.0	.1	4.5
pelagic	66.1	.0	.3	.2	.0	.0	.0	.0	.0	.1	.1	66.8
Sablefish	.0	.1	.0	.2	.0	.0	.0	.0	.0	-	.0	.4
Pacific cod	1.7	.1	38.4	2.2	.5	.3	.1	1.8	.3	.2	.3	46.0
Arrowtooth	.4	.4	.3	2.3	.3	.2	.2	.3	.1	-	.2	4.6
Flathd. sole	.1	.0	.3	.8	.4	.1	.0	.0	.0	.0	.1	2.0
Rex sole	.6	.2	.7	7.1	.4	2.8	.5	.0	.7	-	.6	13.5
Flat deep	.1	.2	.2	1.1	.1	.3	.8	.2	.2	.0	.1	3.2
Flat shallow	.4	.1	.9	1.0	.3	.1	.1	2.7	.1	.0	.6	6.2
Rockfish	.2	1.1	.4	1.7	.1	.2	.3	.3	15.4	.2	.1	20.0
Atka mack.	.0	.0	.1	.0	-	-	-	-	.3	.2	.0	.5
Total	73.2	2.2	41.9	16.9	2.2	4.0	2.1	5.4	17.2	.7	2.2	167.8
All gear												
Total	73.2	20.8	69.1	18.4	2.2	4.0	2.2	5.4	19.3	.7	3.4	218.8

Notes: Totals may include additional categories. The target, calculated by AFSC staff, is based on processor, week, processing mode, NMFS area, and gear.

Source: Blend estimates, National Marine Fisheries Service, 7600 Sand Point Way N.E., BIN C15700, Seattle, WA 98115-0070.

Table 7.--Bering Sea and Aleutian Islands groundfish catch by species, gear, and target fishery, 1994-95
(1,000 metric tons, round weight).

	Species												
	Pollock	Sable- fish	Pacific cod	Arrow- tooth	Flathd. sole	Rock sole	Turbot	Yellow fin	Flat other	Rock- fish	Atka mack.	Other	Total
Year/Gear/Target													
1994													
Hook and line													
Sablefish	.0	1.6	.0	.2	.0	.0	2.3	.0	.0	.3	.0	.1	4.5
Pacific cod	2.8	.1	86.2	1.5	.1	.0	.3	.2	.2	.2	.1	10.5	102.0
Turbot	.0	.1	.1	.1	-	.0	1.2	-	.0	.0	.0	.1	1.6
Total	2.8	1.9	86.3	1.8	.1	.0	3.8	.2	.2	.5	.1	10.7	108.3
Pot													
Sablefish	.0	.0	-	.0	-	-	.0	-	.0	.0	-	.0	.1
Pacific cod	.0	.0	8.2	.0	.0	.0	-	.0	.0	.0	.0	.2	8.4
Total	.0	.0	8.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	8.5
Trawl													
Pollock													
bottom	160.3	.0	6.2	1.3	.3	2.6	.0	.9	1.4	.1	.0	.8	173.9
pelagic	1,145.4	.0	7.9	.7	.4	.3	.0	.1	.9	.1	.0	.6	1,156.5
Sablefish	.0	.1	.0	.2	.0	-	.2	-	.0	.0	.0	.0	.5
Pacific cod	21.1	.0	53.0	2.0	.5	7.7	.1	1.2	2.4	.4	.2	2.3	91.0
Rock sole	14.9	.0	5.6	.6	.4	39.6	.0	5.3	3.2	.0	.0	2.7	72.5
Turbot	.0	.3	.0	1.3	.0	.0	5.5	.0	.0	.1	.0	.1	7.4
Yellowfin	39.7	-	17.4	1.7	2.5	8.5	.0	131.2	11.2	.0	-	4.2	216.4
Flat, other	2.5	.0	1.8	4.0	1.3	.8	.2	.8	4.2	.3	.0	2.4	18.4
Rockfish	.4	.1	.4	.6	.0	.0	.3	.0	.0	11.6	1.3	.1	15.1
Atka mack.	.3	.0	6.9	.1	.0	.1	.0	.0	.0	5.6	63.6	.4	77.1
Total	1,384.8	.5	99.3	12.5	5.4	59.6	6.4	139.9	23.5	18.2	65.2	14.0	1,829.5
All gear													
Total	1,388.6	2.4	193.8	14.3	5.5	59.6	10.3	140.0	23.7	18.7	65.4	24.9	1,947.2

Table 7.--Continued.

	Species											Total	
	Pollock	Sable- fish	Pacific cod	Arrow- tooth	Flathd. sole	Rock sole	Turbot	Yellow fin	Flat other	Rock- fish	Atka mack.		Other
Year/Gear/Target													
1995													
Hook and line													
Sablefish	.0	1.3	1.3	.3	.0	.0	1.7	-	.0	.2	.0	.3	5.2
Pacific cod	3.1	.0	102.1	1.8	.3	.0	.3	.1	.0	.1	.1	10.7	118.5
Turbot	.0	.2	.1	.2	.0	.0	2.2	-	.0	.0	.0	.4	3.2
Rockfish	.0	.0	.0	.0	-	-	.0	-	.0	.1	-	.0	.1
Total	3.1	1.6	103.5	2.2	.3	.0	4.2	.1	.0	.4	.1	11.5	127.1
Pot													
Pacific cod	.0	.0	20.2	.0	.0	.0	.0	.1	.0	.0	.1	.6	21.0
Total	.0	.0	20.2	.0	.0	.0	.0	.1	.0	.0	.1	.6	21.0
Trawl													
Pollock													
bottom	125.5	.0	9.7	.6	1.1	1.7	.0	.8	.3	.0	.1	.5	140.5
pelagic	1,135.6	.0	10.1	.5	1.1	.5	.1	.1	.2	.2	.1	.8	1,149.5
Sablefish													
Pacific cod	.0	.0	.0	.1	.0	-	.1	-	.0	.0	.0	.0	.2
Arrowtooth	.0	.0	.0	.0	.0	.0	.0	-	.0	-	-	.0	.1
Flathd. sole	1.8	.0	1.1	.7	3.2	.8	.0	1.3	.7	.0	-	.7	10.4
Rock sole	7.7	.0	9.7	.2	1.1	29.2	.0	6.7	1.7	.0	.0	1.6	58.0
Turbot	.0	.3	.1	1.9	.1	.0	3.2	.0	.1	.2	.0	.1	5.9
Yellowfin	27.0	.0	13.1	.3	3.9	7.4	.1	108.0	12.2	.0	-	2.9	174.9
Flat, other	3.6	.0	1.8	.5	1.1	1.3	.0	6.9	4.1	.0	-	.8	20.1
Rockfish	.4	.0	.2	.4	.0	.0	.4	-	.0	10.8	1.2	.1	13.5
Atka mack.	.4	.0	4.5	.1	.0	.1	.0	.0	.0	4.9	79.8	.5	90.3
Total	1,324.4	.4	121.3	7.1	14.5	54.8	4.0	124.6	20.2	16.4	81.4	10.6	1,779.6
All gear													
Total	1,327.5	2.1	245.1	9.3	14.7	54.9	8.2	124.7	20.2	16.8	81.6	22.7	1,927.7

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Notes: Totals may include additional categories. The target, calculated by AFSC staff, is based on processor, week, processing mode, NMFS area, and gear.

Source: Blend estimates, National Marine Fisheries Service, 7600 Sand Point Way N.E., BIN C15700, Seattle, WA 98115-0070.

Table 8.--Gulf of Alaska groundfish discards by species, gear, and target fishery, 1994-95 (1,000 metric tons, round weight).

	Species											
	Pollock	Sable- fish	Pacific cod	Arrow- tooth	Flathd. sole	Rex sole	Flat deep	Flat shallow	Rock- fish	Atka mack.	Other	Total
Year/Gear/Target												
1994												
Hook and line												
Sablefish	.0	.2	.2	.8	.0	-	.0	.0	.9	-	.4	2.6
Pacific cod	.0	.0	.2	.0	.0	-	.0	.0	.0	.0	.2	.4
Rockfish	.0	.0	.0	.0	-	-	.0	-	.0	-	.0	.0
Total	.0	.2	.4	.9	.0	.0	.0	.0	.9	.0	.6	3.0
Pot												
Pacific cod	.0	.0	.1	.0	-	-	-	.0	.0	.0	.0	.1
Flat shallow	-	-	-	-	-	-	-	.0	-	-	-	.0
Total	.0	.0	.1	.0	-	-	-	.0	.0	.0	.0	.1
Trawl												
Pollock												
bottom	.2	.0	.1	.7	.0	.0	.0	.0	.0	.0	.0	1.2
pelagic	2.6	.0	.1	.4	.0	.0	.0	.0	.0	.0	.1	3.1
Sablefish	.0	.0	.0	.2	.0	.0	.0	.0	.1	-	.0	.3
Pacific cod	2.0	.0	.5	3.2	.1	.0	.0	.4	.1	.0	.5	6.8
Arrowtooth	.1	.0	.1	.3	.0	.0	.0	.0	.0	-	.0	.6
Flathd. sole	.3	.0	.3	1.1	.2	.0	.0	.0	.0	.0	.1	2.0
Rex sole	.7	.1	.6	10.8	.2	.1	.2	.0	.4	.0	.6	13.8
Flat deep	.0	.2	.2	3.1	.2	.1	.3	.1	.5	.0	.2	4.8
Flat shallow	.3	.0	.5	1.0	.1	.1	.1	.4	.0	-	.4	2.9
Rockfish	.1	.1	.1	1.0	.0	.1	.1	.0	2.5	.0	.1	4.1
Atka mack.	.0	.0	.1	.1	.0	.0	.0	.0	.3	.2	.0	.7
Total	6.3	.5	2.7	21.7	.8	.4	.7	1.1	3.9	.3	2.0	40.3
All gear												
Total	6.3	.7	3.1	22.5	.8	.4	.8	1.1	4.8	.3	2.7	43.5

Table 8.--Continued.

	Species											
	Pollock	Sable- fish	Pacific cod	Arrow- tooth	Flathd. sole	Rex sole	Flat deep	Flat shallow	Rock- fish	Atka mack.	Other	Total
Year/Gear/Target												
1995												
Hook and line												
Sablefish	.0	.4	.1	1.0	.0	-	.1	.0	.4	-	.4	2.4
Pacific cod	.0	.0	.4	.6	.0	.0	.0	.0	.0	.0	.6	1.6
Flat deep	-	.0	-	.0	-	-	.0	-	.0	-	.0	.0
Rockfish	-	.0	.0	.0	-	-	.0	-	.0	-	.0	.0
Total	.0	.4	.5	1.5	.0	.0	.1	.0	.4	.0	1.0	4.0
Pot												
Pacific cod	.0	.0	.1	.0	-	-	-	.0	.0	.0	.1	.2
Total	.0	.0	.1	.0	-	-	-	.0	.0	.0	.1	.2
Trawl												
Pollock												
bottom	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.2
pelagic	5.0	.0	.1	.2	.0	.0	.0	.0	.0	.0	.1	5.4
Sablefish	.0	.1	.0	.2	.0	.0	.0	.0	.0	-	.0	.3
Pacific cod	1.4	.0	1.5	1.8	.2	.1	.0	.7	.1	.2	.3	6.3
Arrowtooth	.3	.3	.1	1.3	.0	.1	.0	.0	.0	-	.1	2.3
Flathd. sole	.1	.0	.2	.7	.1	.0	.0	.0	.0	.0	.1	1.3
Rex sole	.5	.0	.5	7.1	.2	.2	.2	.0	.5	-	.6	9.8
Flat deep	.1	.1	.1	1.1	.0	.0	.1	.0	.1	.0	.1	1.7
Flat shallow	.3	.0	.3	.9	.0	.0	.0	.6	.1	.0	.6	2.7
Rockfish	.2	.2	.2	1.2	.0	.0	.1	.1	2.5	.0	.1	4.7
Atka mack.	.0	.0	.0	.0	-	-	-	-	.2	.0	.0	.3
Total	7.9	.7	2.9	14.6	.6	.4	.4	1.6	3.6	.2	2.0	35.0
All gear												
Total	8.0	1.2	3.5	16.2	.6	.4	.5	1.6	4.0	.2	3.1	39.3

Notes: Totals may include additional categories. The target, calculated by AFSC staff, is based on processor, week, processing mode, NMFS area, and gear.

Source: Blend estimates, National Marine Fisheries Service, 7600 Sand Point Way N.E., BIN C15700, Seattle, WA 98115-0070.

Table 9.--Bering Sea and Aleutian Islands groundfish discards by species, gear, and target fishery, 1994-95
(1,000 metric tons, round weight).

	Species											Total	
	Pollock	Sable- fish	Pacific cod	Arrow- tooth	Flathd. sole	Rock sole	Turbot	Yellow fin	Flat other	Rock- fish	Atka mack.		Other
Year/Gear/Target													
1994													
Hook and line													
Sablefish	.0	.0	.0	.2	.0	.0	2.1	.0	.0	.0	.0	.1	2.6
Pacific cod	2.5	.0	3.1	1.2	.0	.0	.2	.2	.2	.1	.1	9.2	16.8
Turbot	.0	.0	.0	.1	-	.0	.1	-	.0	.0	.0	.1	.3
Total	2.5	.0	3.1	1.6	.0	.0	2.4	.2	.2	.1	.1	9.4	19.6
Pot													
Sablefish	.0	.0	-	.0	-	-	.0	-	.0	.0	-	.0	.0
Pacific cod	.0	.0	.2	.0	.0	.0	-	.0	.0	.0	.0	.2	.4
Total	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	.4
Trawl													
Pollock													
bottom	8.0	.0	3.6	1.2	.2	2.0	.0	.7	.9	.1	.0	.7	17.7
pelagic	20.1	.0	4.6	.6	.2	.3	.0	.1	.5	.1	.0	.5	27.0
Sablefish	.0	.0	.0	.2	.0	-	.2	-	.0	.0	.0	.0	.4
Pacific cod	20.0	.0	5.4	2.0	.3	7.2	.0	.6	2.0	.3	.2	2.3	40.2
Rock sole	13.9	.0	3.7	.6	.2	23.1	.0	3.5	2.5	.0	.0	2.7	50.3
Turbot	.0	.0	.0	1.2	.0	.0	.3	.0	.0	.0	.0	.1	1.8
Yellowfin	37.7	-	9.3	1.6	1.2	5.8	.0	29.6	8.1	.0	-	4.1	97.3
Flat, other	2.4	.0	.7	4.0	.3	.4	.2	.4	1.4	.3	.0	2.4	12.5
Rockfish	.4	.0	.2	.5	.0	.0	.0	.0	.0	1.2	.4	.1	2.9
Atka mack.	.3	.0	2.1	.1	.0	.1	.0	.0	.0	4.1	8.6	.4	15.6
Total	103.0	.1	29.5	12.1	2.5	38.9	.8	35.0	15.5	6.0	9.2	13.4	266.2
All gear													
Total	105.6	.1	32.9	13.7	2.6	38.9	3.2	35.1	15.7	6.2	9.3	23.0	286.3

Table 9.--Continued.

	Species											Total	
	Pollock	Sable- fish	Pacific cod	Arrow- tooth	Flathd. sole	Rock sole	Turbot	Yellow fin	Flat other	Rock- fish	Atka mack.		Other
Year/Gear/Target													
1995													
Hook and line													
Sablefish	.0	.0	1.3	.3	.0	.0	1.5	-	.0	.1	.0	.3	3.5
Pacific cod	2.7	.0	4.0	1.6	.2	.0	.2	.1	.0	.1	.1	9.2	18.1
Turbot	.0	.1	.0	.1	.0	.0	.1	-	.0	.0	.0	.4	.8
Rockfish	.0	.0	.0	.0	-	-	.0	-	.0	.0	-	.0	.0
Total	2.7	.2	5.4	2.0	.2	.0	1.8	.1	.0	.1	.1	9.9	22.5
Pot													
Pacific cod	.0	.0	.3	.0	.0	.0	.0	.1	.0	.0	.1	.5	1.0
Total	.0	.0	.3	.0	.0	.0	.0	.1	.0	.0	.1	.5	1.0
Trawl													
Pollock													
bottom	5.7	.0	7.4	.6	.8	1.3	.0	.6	.2	.0	.1	.5	17.3
pelagic	35.7	.0	6.9	.5	1.0	.4	.1	.1	.1	.2	.1	.7	45.9
Sablefish	.0	.0	.0	.1	.0	-	.1	-	.0	.0	.0	.0	.1
Pacific cod	20.3	.0	8.1	1.6	2.3	11.4	.1	.3	.7	.2	.1	2.6	47.8
Arrowtooth	.0	.0	.0	.0	.0	.0	.0	-	.0	-	-	.0	.0
Flathd. sole	1.6	.0	.6	.7	.5	.5	.0	.6	.4	.0	-	.7	5.7
Rock sole	6.7	.0	5.2	.2	.6	13.6	.0	1.9	1.1	.0	.0	1.6	30.9
Turbot	.0	.0	.0	1.8	.0	.0	.2	.0	.0	.0	.0	.1	2.3
Yellowfin	22.0	.0	6.5	.3	1.4	4.9	.1	21.2	7.9	.0	-	2.6	67.0
Flat, other	3.2	.0	1.0	.5	.3	.8	.0	3.1	1.3	.0	-	.8	10.9
Rockfish	.3	.0	.1	.4	.0	.0	.0	-	.0	.8	.7	.1	2.5
Atka mack.	.4	.0	1.6	.1	.0	.1	.0	.0	.0	3.7	13.7	.5	20.1
Total	96.1	.0	37.5	6.8	6.9	33.1	.6	27.9	11.7	5.0	14.8	10.1	250.5
All gear													
Total	98.8	.2	43.2	8.8	7.2	33.1	2.4	28.0	11.8	5.1	14.9	20.5	274.0

Notes: Totals may include additional categories. The target, calculated by AFSC staff, is based on processor, week, processing mode, NMFS area, and gear.

Source: Blend estimates, National Marine Fisheries Service, 7600 Sand Point Way N.E., BIN C15700, Seattle, WA 98115-0070.

Table 10.--Gulf of Alaska groundfish discard rate by species, gear, and target fishery, 1994-95.

	Species											
	Pollock	Sable- fish	Pacific cod	Arrow- tooth	Flathd. sole	Rex sole	Flat deep	Flat shallow	Rock- fish	Atka mack.	Other	Total
Year/Gear/Target												
1994												
Hook and line												
Sablefish	100%	1%	78%	98%	100%	-	99%	100%	58%	-	99%	11%
Pacific cod	99%	4%	3%	100%	19%	-	17%	100%	6%	100%	100%	6%
Rockfish	0%	14%	16%	100%	-	-	100%	-	1%	-	97%	3%
Total	97%	1%	6%	98%	76%	0%	98%	69%	37%	100%	99%	10%
Pot												
Pacific cod	99%	100%	1%	100%	-	-	-	100%	53%	100%	77%	1%
Flat shallow	-	-	-	-	-	-	-	0%	-	-	-	0%
Total	99%	100%	1%	100%	-	-	-	0%	53%	100%	75%	1%
Trawl												
Pollock												
bottom	4%	66%	22%	95%	17%	18%	22%	19%	97%	100%	77%	16%
pelagic	3%	9%	39%	97%	61%	11%	48%	51%	51%	2%	99%	3%
Sablefish	100%	14%	75%	100%	10%	11%	33%	16%	85%	-	100%	76%
Pacific cod	90%	17%	2%	100%	43%	5%	21%	52%	52%	62%	100%	19%
Arrowtooth	70%	42%	98%	51%	18%	9%	9%	19%	41%	-	70%	49%
Flathd. sole	95%	27%	68%	100%	20%	12%	23%	16%	40%	100%	97%	62%
Rex sole	97%	30%	83%	100%	39%	5%	38%	67%	61%	36%	100%	79%
Flat deep	47%	42%	59%	100%	55%	21%	16%	28%	70%	100%	96%	61%
Flat shallow	66%	8%	96%	96%	32%	31%	36%	18%	37%	-	99%	52%
Rockfish	97%	8%	69%	96%	69%	54%	66%	52%	22%	10%	100%	28%
Atka mack.	100%	0%	65%	100%	56%	16%	7%	100%	99%	8%	100%	20%
Total	6%	22%	8%	98%	32%	11%	24%	28%	29%	8%	98%	21%
All gear												
Total	6%	3%	7%	98%	32%	11%	25%	27%	30%	8%	98%	18%

Table 10.--Continued.

Year/Gear/Target	Species											
	Pollock	Sable- fish	Pacific cod	Arrow- tooth	Flathd. sole	Rex sole	Flat deep	Flat shallow	Rock- fish	Atka mack.	Other	Total
1995												
Hook and line												
Sablefish	100%	2%	56%	100%	100%	-	96%	96%	32%	-	97%	11%
Pacific cod	31%	21%	3%	96%	86%	100%	44%	96%	5%	100%	89%	13%
Flat deep	-	0%	-	100%	-	-	0%	-	0%	-	100%	7%
Rockfish	-	20%	1%	0%	-	-	0%	-	2%	-	98%	3%
Total	33%	2%	5%	98%	87%	100%	52%	35%	21%	100%	90%	12%
Pot												
Pacific cod	100%	100%	1%	95%	-	-	-	100%	79%	100%	76%	2%
Total	100%	100%	1%	95%	-	-	-	100%	79%	100%	75%	2%
Trawl												
Pollock												
bottom	1%	0%	5%	65%	39%	38%	13%	23%	3%	100%	87%	5%
pelagic	8%	7%	33%	97%	96%	95%	100%	59%	59%	7%	99%	8%
Sablefish	100%	59%	42%	100%	48%	8%	7%	100%	21%	-	100%	75%
Pacific cod	83%	31%	4%	80%	34%	16%	12%	42%	49%	97%	95%	14%
Arrowtooth	71%	75%	37%	57%	7%	25%	15%	12%	38%	-	82%	50%
Flathd. sole	100%	2%	68%	98%	18%	18%	17%	36%	60%	100%	99%	67%
Rex sole	99%	19%	68%	100%	44%	7%	37%	89%	71%	-	100%	72%
Flat deep	96%	38%	40%	96%	45%	5%	9%	14%	40%	100%	100%	52%
Flat shallow	81%	32%	36%	82%	14%	17%	4%	21%	76%	89%	89%	44%
Rockfish	99%	20%	52%	72%	37%	23%	29%	43%	16%	8%	95%	24%
Atka mack.	100%	100%	1%	100%	-	-	-	-	77%	0%	100%	47%
Total	11%	34%	7%	87%	29%	10%	19%	29%	21%	28%	93%	21%
All gear												
Total	11%	6%	5%	88%	29%	10%	21%	29%	21%	28%	91%	18%

Notes: Totals may include additional categories. The target, calculated by AFSC staff, is based on processor, week, processing mode, NMFS area, and gear.

Source: Blend estimates, National Marine Fisheries Service, 7600 Sand Point Way N.E., BIN C15700, Seattle, WA 98115-0070.

Table 11.--Bering Sea and Aleutian Islands groundfish discard rate by species, gear, and target fishery, 1994-95.

	Species												
	Pollock	Sable- fish	Pacific cod	Arrow- tooth	Flathd. sole	Rock sole	Turbot	Yellow fin	Flat other	Rock- fish	Atka mack.	Other	Total
Year/Gear/Target													
1994													
Hook and line													
Sablefish	100%	1%	52%	100%	100%	0%	92%	100%	100%	11%	100%	100%	56%
Pacific cod	89%	7%	4%	86%	80%	94%	56%	100%	92%	49%	98%	88%	16%
Turbot	100%	2%	3%	100%	-	100%	7%	-	100%	8%	100%	100%	16%
Total	89%	2%	4%	88%	81%	90%	62%	100%	92%	26%	98%	88%	18%
Pot													
Sablefish	100%	9%	-	100%	-	-	100%	-	100%	43%	-	100%	47%
Pacific cod	100%	100%	2%	100%	0%	100%	-	100%	81%	100%	100%	96%	4%
Total	100%	9%	2%	100%	0%	100%	100%	100%	82%	45%	100%	96%	5%
Trawl													
Pollock													
bottom	5%	97%	58%	96%	94%	78%	100%	72%	68%	95%	10%	98%	10%
pelagic	2%	34%	58%	82%	62%	95%	97%	85%	56%	61%	74%	76%	2%
Sablefish	100%	17%	57%	100%	100%	-	94%	-	55%	63%	100%	80%	81%
Pacific cod	95%	16%	10%	99%	49%	94%	71%	46%	83%	83%	75%	97%	44%
Rock sole	93%	24%	66%	96%	62%	58%	76%	65%	78%	100%	0%	98%	69%
Turbot	100%	13%	4%	95%	52%	96%	5%	66%	60%	22%	75%	99%	24%
Yellowfin	95%	-	53%	96%	48%	69%	100%	23%	72%	100%	-	97%	45%
Flat, other	97%	51%	40%	100%	22%	45%	90%	49%	34%	91%	100%	100%	68%
Rockfish	96%	13%	34%	90%	99%	92%	10%	52%	94%	10%	29%	100%	19%
Atka mack.	83%	4%	30%	100%	100%	84%	30%	100%	100%	73%	13%	95%	20%
Total	7%	16%	30%	97%	46%	65%	13%	25%	66%	33%	14%	96%	15%
All gear													
Total	8%	5%	17%	96%	47%	65%	31%	25%	66%	33%	14%	92%	15%

Table 11.--Continued.

	Species												
	Pollock	Sable- fish	Pacific cod	Arrow- tooth	Flathd. sole	Rock sole	Turbot	Yellow fin	Flat other	Rock- fish	Atka mack.	Other	Total
Year/Gear/Target													
1995													
Hook and line													
Sablefish	100%	1%	97%	100%	100%	100%	91%	-	100%	34%	100%	100%	68%
Pacific cod	87%	34%	4%	89%	96%	90%	59%	99%	100%	72%	99%	85%	15%
Turbot	100%	50%	26%	90%	54%	24%	5%	-	100%	4%	100%	99%	26%
Rockfish	100%	34%	99%	100%	-	-	13%	-	100%	2%	-	100%	20%
Total	87%	9%	5%	90%	96%	86%	43%	99%	100%	33%	99%	86%	18%
Pot													
Pacific cod	98%	100%	1%	100%	6%	18%	100%	92%	99%	100%	99%	96%	5%
Total	98%	6%	1%	100%	6%	18%	100%	92%	99%	73%	99%	95%	5%
Trawl													
Pollock													
bottom	5%	100%	76%	92%	73%	77%	100%	67%	74%	74%	100%	99%	12%
pelagic	3%	66%	68%	93%	94%	84%	99%	97%	56%	73%	92%	86%	4%
Sablefish	100%	1%	100%	99%	31%	-	94%	-	100%	58%	100%	100%	71%
Pacific cod	91%	15%	11%	98%	81%	83%	95%	50%	86%	96%	100%	98%	41%
Arrowtooth	100%	0%	66%	18%	0%	0%	100%	-	48%	-	-	76%	32%
Flathd. sole	91%	100%	50%	100%	14%	67%	93%	47%	60%	100%	-	100%	55%
Rock sole	87%	94%	53%	98%	55%	46%	100%	29%	62%	96%	100%	98%	53%
Turbot	95%	7%	69%	95%	73%	61%	7%	26%	48%	29%	100%	100%	40%
Yellowfin	82%	0%	50%	95%	36%	66%	95%	20%	65%	100%	-	90%	38%
Flat, other	91%	13%	56%	100%	27%	62%	99%	44%	30%	53%	-	100%	54%
Rockfish	86%	4%	45%	95%	25%	82%	6%	-	86%	8%	59%	97%	18%
Atka mack.	100%	49%	37%	98%	91%	81%	28%	48%	77%	75%	17%	100%	22%
Total	7%	10%	31%	96%	48%	60%	16%	22%	58%	31%	18%	95%	14%
All gear													
Total	7%	9%	18%	95%	49%	60%	29%	22%	58%	31%	18%	91%	14%

Notes: Totals may include additional categories. The target, calculated by AFSC staff, is based on processor, week, processing mode, NMFS area, and gear.

Source: Blend estimates, National Marine Fisheries Service, 7600 Sand Point Way N.E., BIN C15700, Seattle, WA 98115-0070.

Table 12.--Prohibited species bycatch in the Gulf of Alaska by species, gear, and groundfish target fishery, 1994-95. Reported in metric tons (t) and in numbers of crabs and salmon x 1,000.

Year/Gear/Target	Halibut	Herring	Red king	Other	Bairdi	Other	Chinook	Other
	mort.		crab	k.crab		tanner		salmon
	t	t	1,000s	1,000s	1,000s	1,000s	1,000s	1,000s
1994								
Hook and line								
Sablefish	751.1	.0	.0	.6	.8	6.7	.0	.1
Pacific cod	160.4	.0	.0	.0	.2	.1	.0	.0
Rockfish	11.4	.0	.0	.0	.0	.0	.0	.0
Total	922.9	.0	.0	.6	1.0	6.8	.0	.1
Pot								
Pacific cod	12.6	.0	.0	.0	15.3	1.6	.0	.0
Flat shallow	.0	.0	.0	.0	.0	.0	.0	.0
Total	12.6	.0	.0	.0	15.3	1.6	.0	.0
Trawl								
Pollock								
bottom	19.3	1.8	.0	.0	.5	.1	.9	1.7
pelagic	31.8	98.1	.0	.1	.5	.4	6.3	34.7
Sablefish	13.9	.0	.0	.0	.1	.0	.0	.0
Pacific cod	644.0	.1	.0	.0	4.4	.0	1.8	.0
Arrowtooth	81.3	.1	.0	.0	3.8	.0	.1	.0
Flathd. sole	94.5	.0	.0	.0	6.7	.0	.0	.0
Rex sole	499.9	.0	.0	.1	4.5	.5	3.9	.1
Flat deep	368.8	.0	.0	.2	2.4	.4	.1	.0
Flat shallow	240.0	.0	.0	.0	8.2	.0	.1	.1
Rockfish	113.7	.0	.0	5.1	2.9	2.9	.2	.3
Atka mack.	18.6	.0	.0	.0	.1	.0	.1	.2
Total	2,125.8	100.2	.0	5.5	34.1	4.4	13.6	37.2
All gear								
Total	3,061.4	100.2	.1	6.1	50.4	12.8	13.6	37.3

Table 12.--Continued.

	Halibut mort.	Herring	Red king crab	Other k.crab	Bairdi	Other tanner	Chinook	Other salmon
	t	t	1,000s	1,000s	1,000s	1,000s	1,000s	1,000s
Year/Gear/Target								
1995								
Hook and line								
Sablefish	n.a.	.0	.0	.3	.6	9.6	.0	.2
Pacific cod	n.a.	.0	.0	.0	.2	.3	.0	.0
Arrowtooth	n.a.	.0	.0	.0	.0	.0	.0	.0
Flat deep	n.a.	.0	.0	.0	.0	2.5	.0	.0
Flat shallow	n.a.	.0	.0	.0	.0	.0	.0	.0
Rockfish	n.a.	.0	.0	.0	.0	.0	.0	.0
Total	n.a.	.0	.0	.3	.8	12.4	.0	.2
Pot								
Pacific cod	18.4	.0	.0	.0	52.5	1.4	.0	.0
Total	18.4	.0	.0	.0	52.5	1.4	.0	.0
Trawl								
Pollock								
bottom	18.7	.0	.0	.0	2.0	.0	.6	.1
pelagic	86.0	48.3	.0	.4	1.9	2.0	4.3	62.0
Sablefish	12.7	.0	.0	.1	.2	.0	.0	.0
Pacific cod	473.0	.0	.0	.5	15.2	1.0	1.5	.0
Arrowtooth	167.5	.0	.0	.0	3.2	.5	.1	.5
Flathd. sole	78.4	.0	.1	.0	3.5	.0	.0	.0
Rex sole	484.0	.0	.0	.3	2.1	1.0	1.3	.5
Flat deep	87.0	.0	.0	.0	1.0	.4	1.4	1.1
Flat shallow	350.7	.3	.1	.0	18.5	.0	.3	.2
Rockfish	301.3	.0	.0	.9	.2	1.9	5.1	.3
Atka mack.	1.3	.0	.0	.0	.0	.0	.0	.0
Total	2,063.6	48.7	.2	2.3	47.9	6.8	14.6	64.8
All gear								
Total	2,082.0	48.7	.3	2.6	101.1	20.6	14.7	65.0

Notes: Totals may include additional categories. The target, calculated by AFSC staff, is based on processor, week, processing mode, NMFS area, and gear. International Pacific Halibut Commission halibut discard mortality rate estimates are used to estimate halibut mortality. Beginning in 1995, the halibut Individual Fishing Quota (IFQ) program allowed retention of halibut in the hook and line groundfish fisheries. No estimate of halibut bycatch is provided for the 1995 hook and line fishery because it is difficult to differentiate between halibut catch and bycatch in that fishery.

Source: Blend estimates, National Marine Fisheries Service, 7600 Sand Point Way N.E., BIN C15700, Seattle, WA 98115-0070.

Table 13.--Prohibited species bycatch in the Bering Sea and Aleutian Islands by species, gear, and groundfish target fishery, 1994-95. Reported in metric tons (t) or in numbers of crabs and salmon x 1,000.

	Halibut mort.	Herring	Red king crab	Other k.crab	Bairdi	Other tanner	Chinook	Other salmon
	t	t	1,000s	1,000s	1,000s	1,000s	1,000s	1,000s
Year/Gear/Target								
1994								
Hook and line								
Sablefish	111.3	.0	.1	1.5	.0	.8	.0	.0
Pacific cod	1,039.8	.0	.2	.4	24.2	104.6	.1	.0
Turbot	46.8	.0	.0	.2	.0	.2	.0	.0
Rockfish	.9	.0	.0	.0	.0	.0	.0	.0
Total	1,198.9	.0	.3	2.2	24.2	105.6	.1	.0
Pot								
Sablefish	.5	.0	.0	.0	.0	.0	.0	.0
Pacific cod	4.6	.0	.6	2.3	23.7	23.4	.0	.0
Total	5.1	.0	.6	2.3	23.7	23.4	.0	.0
Trawl								
Pollock								
bottom	472.0	109.0	41.7	1.3	360.6	885.4	1.6	9.3
pelagic	272.3	1,511.9	1.0	.0	13.6	9.7	32.1	83.3
Sablefish	6.4	.0	.0	.3	.6	7.0	.0	.0
Pacific cod	1,320.1	3.0	1.1	2.0	218.8	44.6	6.5	1.2
Rock sole	619.8	11.3	204.6	21.9	588.4	723.4	.3	.0
Turbot	583.6	.0	.3	6.0	1.9	278.0	.1	.0
Yellowfin	590.4	86.2	16.9	13.1	1,241.7	9,606.9	.1	.2
Flat, other	238.3	1.7	1.4	1.7	72.6	649.7	.7	.1
Rockfish	56.0	.0	1.6	25.8	.1	.0	.1	.1
Atka mack.	161.6	.0	.0	1.4	.0	.0	2.1	.2
Total	4,320.7	1,723.3	268.7	73.4	2,502.7	12,252.8	43.5	94.4
All gear								
Total	5,528.7	1,723.3	269.6	78.0	2,550.6	12,381.8	43.7	94.5

Table 13.--Continued.

	Halibut mort.	Herring	Red king crab	Other k.crab	Bairdi	Other tanner	Chinook	Other salmon
	t	t	1,000s	1,000s	1,000s	1,000s	1,000s	1,000s
Year/Gear/Target								
1995								
Hook and line								
Sablefish	n.a.	.0	.0	1.0	.0	.6	.0	.0
Pacific cod	798.8	.0	.2	.9	24.6	75.5	.7	.0
Flathd. sole	.1	.0	.0	.0	.0	.0	.0	.0
Turbot	81.2	.0	.0	.4	.0	.7	.0	.0
Rockfish	6.0	.0	.0	.0	.0	.0	.0	.0
Total	888.8	.0	.3	2.4	24.6	76.8	.7	.1
Pot								
Sablefish	1.1	.0	.0	.0	.0	.0	.0	.0
Pacific cod	10.4	.0	3.0	.7	62.3	153.5	.0	.0
Total	11.5	.0	3.0	.7	62.3	153.5	.0	.0
Trawl								
Pollock								
bottom	298.9	160.2	5.9	.8	150.4	204.4	5.1	3.3
pelagic	96.2	744.3	.0	.2	6.8	6.2	10.1	16.2
Sablefish	20.7	.0	.0	.2	.0	.5	.0	.3
Pacific cod	1,511.2	8.2	3.6	.9	244.6	46.2	7.1	.7
Arrowtooth	.2	.0	.0	.0	.0	.2	.0	.0
Flathd. sole	138.3	.5	.1	2.3	56.9	450.8	.1	.0
Rock sole	736.5	8.5	22.3	1.8	356.3	330.5	.4	.8
Turbot	267.0	.0	1.0	3.0	3.8	52.2	.0	.0
Yellowfin	548.5	43.3	8.1	1.9	1,342.9	3,192.5	.0	.3
Flat, other	38.3	5.3	1.1	4.2	51.1	879.2	.0	.1
Rockfish	73.8	.0	2.6	3.3	.0	.1	.2	.2
Atka mack.	23.2	.1	.3	.7	.0	2.8	.0	.1
Total	3,755.2	970.5	44.9	19.4	2,212.8	5,165.6	23.1	22.1
All gear								
Total	4,655.5	970.5	48.2	22.5	2,299.7	5,395.9	23.8	22.2

Notes: Totals may include additional categories. The target, calculated by AFSC staff, is based on processor, week, processing mode, NMFS area, and gear. International Pacific Halibut Commission halibut discard mortality rate estimates are used to estimate halibut mortality. Beginning in 1995, the halibut Individual Fishing Quota (IFQ) program allowed retention of halibut in the hook and line groundfish fisheries. No estimate of halibut bycatch is provided for the 1995 hook and line fishery because it is difficult to differentiate between halibut catch and bycatch in that fishery.

Source: Blend estimates, National Marine Fisheries Service, 7600 Sand Point Way N.E., BIN C15700, Seattle, WA 98115-0070.

Table 14.--Prohibited species bycatch rates in the Gulf of Alaska by species, gear, and groundfish target fishery, 1994-95. Reported in metric ton (t) of bycatch per metric ton of groundfish catch for halibut and herring and number of animals per metric ton of groundfish catch for crab and salmon.

	Halibut mort.	Herring	Red king crab	Other k.crab	Bairdi	Other tanner	Chinook	Other salmon
	t/t	t/t	No./t	No./t	No./t	No./t	No./t	No./t
Year/Gear/Target								
1994								
Hook and line								
Sablefish	.032	.000	.000	.024	.034	.290	.000	.005
Pacific cod	.023	.000	.000	.000	.025	.018	.000	.000
Rockfish	.011	.000	.000	.018	.000	.000	.000	.000
Total	.030	.000	.000	.019	.031	.220	.000	.004
Pot								
Pacific cod	.001	.000	.002	.000	1.661	.172	.000	.000
Flat shallow	.000	.000	.000	.000	.000	.000	.000	.000
Total	.001	.000	.002	.000	1.651	.171	.000	.000
Trawl								
Pollock								
bottom	.003	.000	.000	.004	.072	.014	.122	.233
pelagic	.000	.001	.000	.001	.005	.004	.064	.353
Sablefish	.036	.000	.000	.000	.180	.023	.034	.000
Pacific cod	.018	.000	.000	.000	.124	.001	.051	.001
Arrowtooth	.064	.000	.000	.000	3.005	.009	.111	.000
Flathd. sole	.029	.000	.000	.000	2.101	.008	.000	.000
Rex sole	.029	.000	.000	.004	.258	.027	.223	.008
Flat deep	.047	.000	.000	.027	.306	.056	.014	.002
Flat shallow	.043	.000	.008	.002	1.473	.006	.018	.021
Rockfish	.008	.000	.000	.353	.202	.201	.017	.024
Atka mack.	.005	.000	.000	.000	.034	.011	.015	.040
Total	.011	.001	.000	.028	.175	.023	.070	.191
All gear								
Total	.013	.000	.000	.026	.214	.054	.058	.158

Table 14.--Continued.

	Halibut mort.	Herring	Red king crab	Other k.crab	Bairdi	Other tanner	Chinook	Other salmon
	t/t	t/t	No./t	No./t	No./t	No./t	No./t	No./t
Year/Gear/Target								
1995								
Hook and line								
Sablefish	n.a.	.000	.002	.013	.028	.446	.000	.008
Pacific cod	n.a.	.000	.000	.000	.015	.024	.000	.000
Arrowtooth	n.a.	.000	.000	.000	.000	.000	.000	.000
Flat deep	n.a.	.000	.000	.000	.000	29.757	.000	.000
Flat shallow	n.a.	.000	.000	.000	.000	.000	.000	.000
Rockfish	n.a.	.000	.000	.007	.000	.000	.000	.000
Total	n.a.	.000	.001	.008	.023	.358	.000	.005
Pot								
Pacific cod	.001	.000	.001	.002	3.233	.084	.000	.000
Total	.001	.000	.001	.002	3.232	.084	.000	.000
Trawl								
Pollock								
bottom	.004	.000	.000	.000	.448	.000	.130	.033
pelagic	.001	.001	.000	.006	.029	.029	.065	.928
Sablefish	.031	.000	.000	.153	.523	.002	.116	.116
Pacific cod	.010	.000	.000	.012	.330	.022	.033	.000
Arrowtooth	.036	.000	.000	.003	.698	.114	.023	.102
Flathd. sole	.040	.000	.031	.000	1.762	.000	.000	.023
Rex sole	.036	.000	.000	.025	.157	.073	.095	.034
Flat deep	.027	.000	.000	.005	.323	.110	.432	.339
Flat shallow	.057	.000	.024	.008	2.987	.004	.046	.031
Rockfish	.015	.000	.000	.045	.010	.096	.255	.016
Atka mack.	.002	.000	.000	.000	.000	.000	.000	.000
Total	.012	.000	.001	.014	.285	.040	.087	.386
All gear								
Total	.010	.000	.001	.012	.462	.094	.067	.297

Notes: Totals may include additional categories. The target, calculated by AFSC staff, is based on processor, week, processing mode, NMFS area, and gear. International Pacific Halibut Commission halibut discard mortality rate estimates are used to estimate halibut mortality. Beginning in 1995, the halibut Individual Fishing Quota (IFQ) program allowed retention of halibut in the hook and line groundfish fisheries. No estimate of halibut bycatch is provided for the 1995 hook and line fishery because it is difficult to differentiate between halibut catch and bycatch in that fishery.

Source: Blend estimates, National Marine Fisheries Service, 7600 Sand Point Way N.E., BIN C15700, Seattle, WA 98115-0070.

Table 15.--Prohibited species bycatch rates in the Bering Sea and Aleutian Islands by species, gear, and groundfish target fishery, 1994-95. Reported in metric ton (t) of bycatch per metric ton of groundfish catch for halibut and herring and number of animals per metric ton of groundfish catch for crab and salmon.

	Halibut mort.	Herring	Red king crab	Other k.crab	Bairdi	Other tanner	Chinook	Other salmon
	t/t	t/t	No./t	No./t	No./t	No./t	No./t	No./t
Year/Gear/Target								
1994								
Hook and line								
Sablefish	.024	.000	.026	.336	.005	.176	.001	.005
Pacific cod	.010	.000	.002	.004	.237	1.025	.001	.000
Turbot	.029	.000	.008	.142	.000	.124	.004	.000
Rockfish	.069	.000	.030	1.556	.000	.007	.000	.000
Total	.011	.000	.003	.020	.223	.976	.001	.000
Pot								
Sablefish	.010	.000	.000	.211	.000	.143	.000	.005
Pacific cod	.001	.000	.076	.277	2.817	2.781	.000	.000
Total	.001	.000	.075	.277	2.798	2.763	.000	.000
Trawl								
Pollock								
bottom	.003	.001	.240	.007	2.074	5.093	.009	.054
pelagic	.000	.001	.001	.000	.012	.008	.028	.072
Sablefish	.013	.000	.000	.549	1.201	14.158	.000	.005
Pacific cod	.015	.000	.012	.022	2.404	.490	.071	.013
Rock sole	.009	.000	2.824	.302	8.119	9.982	.004	.000
Turbot	.078	.000	.044	.811	.258	37.387	.008	.000
Yellowfin	.003	.000	.078	.060	5.739	44.401	.000	.001
Flat, other	.013	.000	.077	.091	3.946	35.325	.039	.003
Rockfish	.004	.000	.108	1.706	.009	.001	.008	.006
Atka mack.	.002	.000	.000	.018	.000	.000	.028	.003
Total	.002	.001	.147	.040	1.368	6.697	.024	.052
All gear								
Total	.003	.001	.138	.040	1.310	6.359	.022	.049

Table 15.--Continued.

	Halibut mort.	Herring	Red king crab	Other k.crab	Bairdi	Other tanner	Chinook	Other salmon
	t/t	t/t	No./t	No./t	No./t	No./t	No./t	No./t
Year/Gear/Target								
1995								
Hook and line								
Sablefish	n.a.	.000	.005	.203	.004	.110	.001	.006
Pacific cod	.007	.000	.002	.008	.207	.637	.006	.000
Flathd. sole	.172	.000	.000	.000	.000	.000	.000	.000
Turbot	.026	.000	.016	.127	.007	.205	.000	.003
Rockfish	.070	.000	.010	.275	.000	.116	.000	.000
Total	.007	.000	.002	.019	.194	.604	.006	.000
Pot								
Sablefish	.061	.000	.000	.190	.000	1.610	.000	.060
Pacific cod	.000	.000	.142	.035	2.966	7.305	.000	.000
Total	.001	.000	.142	.036	2.962	7.298	.000	.000
Trawl								
Pollock								
bottom	.002	.001	.042	.006	1.071	1.455	.037	.024
pelagic	.000	.001	.000	.000	.006	.005	.009	.014
Sablefish	.102	.000	.000	1.230	.000	2.529	.000	1.663
Pacific cod	.013	.000	.031	.008	2.104	.397	.061	.006
Arrowtooth	.003	.000	.000	.000	.000	3.242	.000	.000
Flathd. sole	.013	.000	.009	.218	5.469	43.335	.012	.000
Rock sole	.013	.000	.384	.031	6.147	5.702	.007	.014
Turbot	.046	.000	.165	.517	.655	8.914	.000	.000
Yellowfin	.003	.000	.046	.011	7.679	18.256	.000	.002
Flat, other	.002	.000	.056	.210	2.539	43.663	.000	.006
Rockfish	.005	.000	.193	.244	.000	.006	.012	.013
Atka mack.	.000	.000	.003	.008	.000	.031	.000	.001
Total	.002	.001	.025	.011	1.243	2.903	.013	.012
All gear								
Total	.002	.001	.025	.012	1.193	2.799	.012	.012

Notes: Totals may include additional categories. The target, calculated by AFSC staff, is based on processor, week, processing mode, NMFS area, and gear. International Pacific Halibut Commission halibut discard mortality rate estimates are used to estimate halibut mortality. Beginning in 1995, the halibut Individual Fishing Quota (IFQ) program allowed retention of halibut in the hook and line groundfish fisheries. No estimate of halibut bycatch is provided for the 1995 hook and line fishery because it is difficult to differentiate between halibut catch and bycatch in that fishery.

Source: Blend estimates, National Marine Fisheries Service, 7600 Sand Point Way N.E., BIN C15700, Seattle, WA 98115-0070.

Table 16.--Groundfish catch off Alaska by area, gear, and species, 1991-95
(1,000 metric tons, round weight).

Species/Year	Gulf of Alaska			Bering Sea and Aleutian			All Alaska		
	H & L	Pot	Trawl	H & L	Pot	Trawl	H & L	Pot	Trawl
All groundfish									
1991	31	11	219	98	7	2,020	128	17	2,239
1992	45	10	228	123	14	1,858	169	25	2,086
1993	38	10	213	90	2	1,795	129	12	2,008
1994	31	9	195	108	8	1,829	139	18	2,025
1995	35	16	168	127	21	1,780	162	37	1,947
Pollock									
1991	0	0	100	3	0	1,607	3	0	1,708
1992	0	0	93	3	0	1,435	3	0	1,529
1993	0	0	109	2	0	1,382	2	0	1,491
1994	0	0	107	3	0	1,385	3	0	1,492
1995	0	0	73	3	0	1,324	3	0	1,398
Sablefish									
1991	21	-	3	3	0	1	23	0	3
1992	21	0	3	2	0	0	23	0	3
1993	22	0	2	3	-	0	25	0	3
1994	20	0	2	2	0	1	22	0	3
1995	19	0	2	2	0	0	20	0	3
Pacific cod									
1991	8	10	58	81	7	133	88	17	191
1992	16	10	54	101	14	90	117	24	145
1993	9	10	38	66	2	99	75	12	137
1994	7	9	31	86	8	99	93	17	131
1995	11	16	42	104	20	121	115	36	163
Flatfish									
1991	0	0	34	4	0	229	5	0	263
1992	5	0	39	4	0	244	9	0	283
1993	3	0	36	9	0	208	12	0	244
1994	1	0	35	6	0	247	7	0	282
1995	2	0	30	7	0	225	9	0	256
Rockfish									
1991	2	0	19	0	0	8	2	0	27
1992	3	0	22	1	0	17	4	0	39
1993	2	0	17	1	0	24	3	0	41
1994	3	0	14	0	0	18	3	0	32
1995	2	0	17	0	0	16	3	0	34
Atka mackerel									
1991	0	-	1	0	0	27	0	0	28
1992	0	0	9	0	0	49	0	0	58
1993	0	0	5	0	0	66	0	0	71
1994	0	0	4	0	0	65	0	0	69
1995	0	0	1	0	0	81	0	0	82

Notes: "H & L" is hook and line. All groundfish include additional species categories.

Source: Blend estimates, National Marine Fisheries Service., 7600 Sand Point Way N.E.,
BIN C15700, Seattle, WA 98115-0070.

Table 17.--Groundfish catch off Alaska by area, processor category, and species, 1991-95, (1,000 metric tons, round weight).

Species/Year	Gulf of Alaska			Bering Sea and Aleutian			All Alaska		
	At-sea	On-shore	Total	At-sea	On-shore	Total	At-sea	On-shore	Total
All groundfish									
1991	93	167	260	1,663	462	2,125	1,756	629	2,385
1992	97	187	284	1,561	435	1,996	1,659	621	2,280
1993	60	201	261	1,397	490	1,887	1,457	691	2,149
1994	50	185	236	1,439	508	1,947	1,489	694	2,183
1995	57	161	219	1,440	487	1,928	1,498	649	2,147
Pollock									
1991	24	76	100	1,217	393	1,610	1,241	469	1,711
1992	9	84	93	1,040	399	1,438	1,049	483	1,532
1993	1	108	109	947	438	1,385	948	545	1,494
1994	2	105	107	950	438	1,389	952	544	1,496
1995	3	70	73	919	409	1,327	922	479	1,401
Sablefish									
1991	4	19	23	2	1	3	6	21	26
1992	5	18	23	1	1	2	7	19	25
1993	5	20	25	2	1	3	7	20	28
1994	4	18	23	2	0	2	6	19	25
1995	4	17	21	1	1	2	5	18	23
Pacific cod									
1991	20	57	76	176	44	220	196	100	296
1992	24	56	80	180	25	205	204	81	285
1993	9	48	56	128	40	167	137	87	224
1994	6	41	47	147	47	194	153	89	241
1995	14	55	69	188	57	245	202	112	314
Flatfish									
1991	23	11	34	211	22	234	234	33	268
1992	22	22	44	241	7	249	263	29	292
1993	20	20	40	207	10	217	227	30	256
1994	20	16	36	234	20	253	254	36	289
1995	18	14	32	214	18	232	232	32	264
Rockfish									
1991	18	2	21	8	0	9	26	3	29
1992	21	3	25	18	1	18	39	4	43
1993	17	3	20	25	0	25	41	3	44
1994	13	3	16	18	0	19	31	3	35
1995	16	3	19	16	0	17	33	3	36
Atka mackerel									
1991	1	0	1	26	0	27	28	0	28
1992	9	0	9	49	0	49	58	0	58
1993	5	0	5	66	0	66	71	0	71
1994	4	0	4	65	0	65	69	0	69
1995	0	0	1	81	0	82	82	0	82

Note: Processor category, at-sea and on-shore, refer to where processing occurred. This is NOT the same as inshore/offshore for cod and pollock allocation. All groundfish include additional species categories.

Source: Blend estimates, National Marine Fisheries Service, 7600 Sand Point Way N.E., BIN C15700, Seattle, WA 98115-0070.

Table 18.--Groundfish catch off Alaska by area, residency, and species, 1991-95, (1,000 metric tons, round weight).

Species/Year	Gulf of Alaska			Bering Sea and Aleutian			All Alaska		
	Alaska	Other	Unknown	Alaska	Other	Unknown	Alaska	Other	Unknown
All groundfish									
1991	91	168	0	105	2,016	4	196	2,185	4
1992	118	163	3	182	1,811	3	299	1,974	6
1993	124	137	0	196	1,691	0	321	1,828	0
1994	102	123	11	194	1,685	69	295	1,808	80
1995	82	123	14	101	1,704	122	183	1,827	136
Pollock									
1991	27	74	0	33	1,574	3	60	1,648	3
1992	34	59	0	66	1,372	1	100	1,431	1
1993	46	63	0	60	1,325	0	105	1,388	0
1994	39	61	7	55	1,294	40	94	1,355	47
1995	24	47	2	43	1,247	38	67	1,294	40
Sablefish									
1991	12	11	0	1	2	0	13	13	0
1992	13	10	0	1	1	0	14	11	0
1993	16	9	0	1	2	0	16	11	0
1994	14	8	1	1	2	0	14	10	1
1995	10	10	2	0	1	0	10	11	2
Pacific cod									
1991	35	41	0	23	196	0	59	237	0
1992	35	43	3	31	173	2	65	215	5
1993	33	23	0	27	141	0	60	164	0
1994	29	18	1	31	153	9	60	171	11
1995	35	29	5	28	198	19	63	227	24
Flatfish									
1991	9	25	0	37	197	0	46	221	0
1992	17	26	0	51	197	0	69	223	0
1993	17	23	0	65	152	0	82	175	0
1994	13	23	0	63	177	13	76	200	14
1995	10	21	2	16	179	37	26	200	38
Rockfish									
1991	6	15	0	1	8	0	6	23	0
1992	9	16	0	8	10	0	17	26	0
1993	7	13	0	10	15	0	17	27	0
1994	4	11	1	8	9	1	13	20	2
1995	2	14	3	1	13	2	4	27	5
Atka mackerel									
1991	0	1	0	8	19	0	8	20	0
1992	6	3	0	18	31	0	24	34	0
1993	1	4	0	28	38	0	30	41	0
1994	1	2	0	31	30	4	33	32	4
1995	0	1	0	10	48	23	10	49	23

Notes: Catch delivered to motherships is classified by the residence of the owner of the mothership. All other catch is classified by the residence of the owner of the fishing vessel. All groundfish include additional species categories.

Source: Blend estimates, fish tickets, CFEC vessel data, National Marine Fisheries Service, 7600 Sand Point Way N.E., BIN C15700, Seattle, WA 98115-0070.

Table 19.--Ex-vessel value of the groundfish catch off Alaska by area, gear, and species, 1992-95 (\$ millions).

Species/Year	Gulf of Alaska			Bering Sea and Aleutian			All Alaska		
	Fixed	Trawl	Total	Fixed	Trawl	Total	Fixed	Trawl	Total
All groundfish									
1992	68.5	60.5	129.0	59.8	430.9	490.7	128.3	491.4	619.7
1993	61.8	40.4	102.3	34.3	272.8	307.1	96.1	313.2	409.4
1994	75.2	39.8	115.0	41.2	304.8	345.9	116.3	344.6	460.9
1995	98.0	47.6	145.6	62.0	377.7	439.7	160.0	425.3	585.3
Pollock									
1992	.0	19.8	19.8	.0	345.6	345.6	.0	365.4	365.5
1993	.0	15.7	15.7	.0	189.6	189.7	.0	205.3	205.3
1994	.0	17.0	17.0	.1	215.0	215.1	.1	232.0	232.1
1995	.0	15.5	15.5	.1	281.5	281.6	.1	297.0	297.1
Sablefish									
1992	54.0	4.7	58.7	5.2	.1	5.3	59.2	4.9	64.0
1993	51.9	3.1	55.0	6.1	.1	6.2	57.9	3.2	61.1
1994	66.8	5.7	72.5	5.1	.7	5.8	71.9	6.3	78.3
1995	81.8	5.2	87.0	6.2	.5	6.8	88.0	5.7	93.7
Pacific cod									
1992	13.1	21.4	34.5	53.9	24.2	78.0	66.9	45.6	112.5
1993	8.6	11.1	19.7	24.4	19.9	44.2	32.9	31.0	63.9
1994	6.7	9.2	15.9	34.7	19.2	53.9	41.3	28.5	69.8
1995	13.9	16.5	30.3	52.5	28.2	80.7	66.4	44.6	111.0
Flatfish									
1992	.0	2.1	2.1	.2	41.1	41.4	.2	43.2	43.5
1993	.0	4.4	4.4	3.5	38.1	41.6	3.5	42.5	46.0
1994	.0	3.4	3.4	.8	53.3	54.1	.9	56.6	57.5
1995	.0	5.0	5.0	1.5	48.2	49.8	1.5	53.2	54.7
Rockfish									
1992	1.4	7.7	9.2	.4	5.4	5.8	1.9	13.1	15.0
1993	1.3	4.0	5.3	.4	5.4	5.8	1.7	9.5	11.1
1994	1.7	3.6	5.3	.4	4.0	4.4	2.1	7.6	9.8
1995	2.3	5.2	7.5	.4	3.7	4.1	2.7	8.9	11.6
Atka mackerel									
1992	-	3.0	3.0	.0	13.9	13.9	.0	16.9	16.9
1993	-	2.1	2.1	.0	19.6	19.6	.0	21.7	21.7
1994	-	.9	.9	.0	12.6	12.6	.0	13.5	13.5
1995	-	1	1	.0	15.5	15.5	.0	15.7	15.7

Note: Ex-vessel value is calculated using prices on table 22. Please refer to Table 22 for a description of the price derivation. All groundfish include additional species categories.

Source: Blend estimates, CFEC adjusted fish tickets, annual processor survey, weekly processor reports, National Marine Fisheries Service, 7600 Sand Point Way N.E., BIN C15700, Seattle, WA 98115-0070.

Table 20.--Ex-vessel value of the groundfish catch off Alaska by area, processor category, and species, 1992-95, (\$ millions).

Species/Year	Gulf of Alaska			Bering Sea and Aleutian			All Alaska		
	At-sea	On-shore	Total	At-sea	On-shore	Total	At-sea	On-shore	Total
All groundfish									
1992	36.5	92.5	129.0	375.6	115.1	490.7	412.1	207.6	619.7
1993	21.5	80.8	102.3	234.1	73.0	307.1	255.6	153.8	409.4
1994	21.3	93.7	115.0	258.6	87.4	345.9	279.9	181.0	460.9
1995	27.8	117.8	145.6	324.5	115.2	439.7	352.3	233.0	585.3
Pollock									
1992	1.4	18.4	19.8	243.3	102.4	345.6	244.7	120.7	365.5
1993	.1	15.6	15.7	128.3	61.4	189.7	128.3	77.0	205.3
1994	.1	16.9	17.0	144.6	70.5	215.1	144.6	87.4	232.1
1995	.4	15.1	15.5	191.4	90.1	281.6	191.8	105.3	297.1
Sablefish									
1992	11.8	46.9	58.7	3.4	1.9	5.3	15.2	48.8	64.0
1993	10.3	44.7	55.0	4.9	1.3	6.2	15.2	46.0	61.1
1994	13.1	59.3	72.5	4.7	1.1	5.8	17.8	60.5	78.3
1995	13.9	73.1	87.0	3.7	3.0	6.8	17.7	76.1	93.7
Pacific cod									
1992	10.5	24.0	34.5	69.1	8.9	78.0	79.6	33.0	112.5
1993	3.2	16.5	19.7	34.5	9.7	44.2	37.8	26.2	63.9
1994	2.1	13.8	15.9	41.2	12.7	53.9	43.3	26.6	69.8
1995	5.8	24.5	30.3	61.8	18.9	80.7	67.6	43.4	111.0
Flatfish									
1992	.7	1.4	2.1	39.9	1.5	41.4	40.6	2.9	43.5
1993	1.7	2.7	4.4	41.1	.5	41.6	42.8	3.2	46.0
1994	1.5	1.8	3.4	51.2	2.9	54.1	52.7	4.8	57.5
1995	2.4	2.6	5.0	46.9	2.9	49.8	49.3	5.4	54.7
Rockfish									
1992	7.5	1.7	9.2	5.3	.4	5.8	12.9	2.1	15.0
1993	4.0	1.3	5.3	5.7	.1	5.8	9.8	1.4	11.1
1994	3.6	1.7	5.3	4.3	.1	4.4	7.9	1.8	9.8
1995	5.1	2.4	7.5	3.8	.3	4.1	9.0	2.6	11.6
Atka mackerel									
1992	3.0	-	3.0	13.9	.0	13.9	16.9	.0	16.9
1993	2.1	-	2.1	19.6	.0	19.6	21.7	.0	21.7
1994	.9	.0	.9	12.6	.0	12.6	13.5	.0	13.5
1995	.1	.0	.1	15.5	.0	15.5	15.6	.0	15.7

Note: Ex-vessel value, is calculated using prices on table 22. Please refer to Table 22 for a description of the price derivation. Processor category, at-sea and on-shore, refer to where processing occurred. This is NOT the same as inshore/offshore for cod and pollock allocation. All groundfish include additional species categories.

Source: Blend estimates, CFEC adjusted fish tickets, annual processor survey, weekly processor reports, National Marine Fisheries Service, 7600 Sand Point Way N.E., BIN C15700, Seattle, WA 98115-0070.

Table 21.--Ex-vessel value of the groundfish catch off Alaska by area, residency, and species, 1992-95, (\$ millions).

Species/Year	Gulf of Alaska			Bering Sea and Aleutian			All Alaska		
	Alaska	Other	Unknown	Alaska	Other	Unknown	Alaska	Other	Unknown
All groundfish									
1992	63.5	64.0	1.5	47.3	442.6	.8	110.9	506.5	2.3
1993	58.7	43.3	.2	43.7	263.4	.0	102.4	306.7	.3
1994	65.2	45.2	4.6	39.5	293.0	13.4	104.7	338.2	18.0
1995	65.7	68.2	11.7	27.5	384.5	27.8	93.1	452.7	39.5
Pollock									
1992	7.2	12.6	.0	14.4	331.1	.2	21.6	343.7	.2
1993	6.8	8.9	.0	6.7	182.9	.0	13.5	191.8	.0
1994	6.4	9.5	1.1	5.4	203.9	5.7	11.8	213.4	6.9
1995	5.1	10.0	.4	9.0	266.2	6.3	14.1	276.2	6.8
Sablefish									
1992	34.0	24.4	.3	1.6	3.7	.0	35.6	28.1	.3
1993	34.9	19.8	.2	1.3	4.9	.0	36.3	24.7	.2
1994	45.4	24.5	2.7	1.7	4.0	.2	47.0	28.4	2.8
1995	40.5	39.1	7.4	1.6	4.4	.7	42.1	43.5	8.1
Pacific cod									
1992	15.3	18.1	1.1	12.9	64.5	.7	28.2	82.6	1.8
1993	12.1	7.6	.0	7.8	36.5	.0	19.9	44.0	.0
1994	9.8	5.7	.4	9.1	41.9	2.9	18.9	47.6	3.3
1995	16.0	11.9	2.4	10.4	64.1	6.2	26.5	76.0	8.6
Flatfish									
1992	1.0	1.2	.0	10.5	30.8	.0	11.5	32.0	.0
1993	2.1	2.3	.0	15.9	25.7	.0	18.0	28.0	.0
1994	1.5	1.9	.0	14.8	35.8	3.5	16.3	37.7	3.5
1995	1.9	2.8	.2	3.9	36.7	9.2	5.8	39.5	9.4
Rockfish									
1992	3.5	5.7	.0	2.6	3.1	.0	6.1	8.8	.0
1993	2.1	3.2	.0	2.5	3.3	.0	4.6	6.6	.0
1994	1.9	3.2	.3	2.2	1.9	.4	4.0	5.1	.6
1995	2.0	4.3	1.2	.3	3.3	.5	2.3	7.6	1.7
Atka mackerel									
1992	2.1	.9	.0	5.1	8.8	.0	7.2	9.7	.0
1993	.6	1.5	.0	9.5	10.1	.0	10.1	11.6	.0
1994	.3	.5	.1	6.3	5.5	.8	6.6	6.0	.8
1995	.0	.1	.0	1.9	9.1	4.5	1.9	9.3	4.5

Note: Ex-vessel value is calculated using prices on table 22. Please refer to Table 22 for a description of the price derivation. Catch delivered to motherships is classified by the residence of the owner of the mothership. All other catch is classified by the residence of the owner of the fishing vessel. All groundfish include additional species categories.

Source: Blend estimates, CFEC adjusted fish tickets, annual processor survey, weekly processor reports, CFEC vessel data, National Marine Fisheries Service, 7600 Sand Point Way N.E., BIN C15700, Seattle, WA 98115-0070.

Table 22.--Ex-vessel prices* in the groundfish fisheries off Alaska by area, gear, and species, 1992-95 (\$/lb, round weight).

	Gulf of Alaska		Bering Sea and Aleutian		All Alaska
	Fixed	Trawl	Fixed	Trawl	All gear****
Pollock					
1992	.116 ***	.116	.120 ***	.120	.120
1993	.071 ***	.071	.068 ***	.068	.068
1994	.076 ***	.076	.076 ***	.076	.076
1995	.108 ***	.108	.104 ***	.104	.104
Sablefish					
1992	1.207	1.021	1.185	.774 **	1.188
1993	1.072	.702	1.055	.666 **	1.041
1994	1.521	1.381	1.260	.659 **	1.474
1995	2.041	1.618	1.892	.659 **	1.978
Pacific cod					
1992	.238	.190	.217	.160	.198
1993	.217	.154	.173	.136	.160
1994	.195	.145	.172	.125	.154
1995	.237	.192	.202	.152	.188
Flatfish					
1992	.123 ***	.123	.272	.140 **	.134
1993	.137 ***	.137	.260	.165 **	.158
1994	.139 ***	.139	.261	.179 **	.169
1995	.162 ***	.162	.285	.159 **	.161
Rockfish					
1992	.392	.211 **	.547	.185 **	.207
1993	.443	.175 **	.620	.165 **	.175
1994	.474	.170 **	.760	.155 **	.186
1995	.648	.157 **	.730	.150 **	.195
Atka mackerel					
1992	.167 ***	.167 **	.159 ***	.159 **	.160
1993	.202 ***	.202 **	.177 ***	.177 **	.179
1994	.122 ***	.122 **	.102 ***	.102 **	.103
1995	.134 ***	.134 **	.106 ***	.106 **	.106

* Prices do not include the value added by at-sea processing; therefore, they reflect prices prior to processing. Prices do reflect the value added by dressing fish at sea, where the fish have not been frozen. Except where noted unfrozen landings price is calculated as landed value divided by estimated or actual round weight.

** Since this category is not well represented by on-shore landings, a price was calculated from product survey prices. The price in this case is the value of the product divided by the calculated round weight and multiplied by a constant .4 to correct for value added by processing. 1994 survey data was used for 1995.

*** The trawl price was used for this category.

****This column is the weighted average of the other columns.

Source: Blend estimates, CFEC adjusted fish tickets, annual processor survey, weekly processor reports, National Marine Fisheries Service, 7600 Sand Point Way N.E., BIN C15700, Seattle, WA 98115-0070.

Table 23.--Number and total registered net tons of vessels that caught groundfish off Alaska by area and gear, 1991-95.

Gear/Year	Gulf of Alaska		Bering Sea and Aleutian		All Alaska	
	Number of vessels	Registered net tons	Number of vessels	Registered net tons	Number of vessels	Registered net tons
Hook and line						
1991	1,676	41,605	195	18,248	1,730	52,520
1992	1,810	54,674	163	22,076	1,847	64,026
1993	1,515	48,566	115	19,086	1,537	53,063
1994	1,636	53,968	138	17,822	1,659	57,113
1995	1,351	42,874	175	18,395	1,403	48,988
Pot						
1991	165	8,652	37	4,440	198	12,650
1992	226	11,822	74	14,057	278	23,071
1993	103	4,867	21	2,956	118	7,282
1994	112	5,811	40	5,253	138	9,831
1995	191	14,069	126	16,457	266	24,549
Trawl						
1991	218	60,005	182	84,039	267	90,001
1992	233	48,546	204	87,268	303	93,404
1993	193	37,107	183	80,257	283	87,784
1994	188	34,268	167	77,830	260	84,586
1995	220	49,797	184	80,253	268	86,072
All gear						
1991	1,936	101,678	398	102,729	2,054	142,475
1992	2,117	104,808	411	115,193	2,245	162,327
1993	1,718	84,329	310	98,993	1,838	139,090
1994	1,822	86,776	338	98,381	1,937	141,787
1995	1,640	98,516	464	111,955	1,792	148,072

Note: Registered net tons totals exclude mainly smaller vessels for which data were unavailable. The percent of vessels missing are: 1991 - 9%, 1992 - 8%, 1993 - 7%, 1994 - 6%, 1995 - 5%.

Source: Blend estimates, fish tickets, Norpac data, federal permit file, CFEC vessel data, National Marine Fisheries Service, 7600 Sand Point Way N.E., BIN C15700, Seattle, WA 98115-0070.

Table 24.--Number of vessels that caught groundfish off Alaska by area, tonnage caught, and gear, 1991-95.

Gear/Year	Gulf of Alaska			Bering Sea and Aleutian			All Alaska		
	Tonnage caught			Tonnage caught			Tonnage caught		
	Less than 2 t	2 t to 25 t	More than 25 t	Less than 2 t	2 t to 25 t	More than 25 t	Less than 2 t	2 t to 25 t	More than 25 t
Hook and line									
1991	756	581	339	35	86	74	766	591	373
1992	787	650	373	26	58	79	788	647	412
1993	606	555	354	10	31	74	607	557	373
1994	661	644	331	20	34	84	658	639	362
1995	678	391	282	38	67	70	680	409	314
Pot									
1991	25	57	83	9	11	17	33	66	99
1992	50	81	95	9	23	42	54	93	131
1993	8	29	66	3	3	15	9	31	78
1994	18	30	64	3	5	32	19	30	89
1995	12	60	119	13	48	65	20	87	159
Trawl									
1991	4	12	202	1	5	176	4	7	256
1992	0	8	225	1	5	198	1	9	293
1993	1	10	182	0	3	180	0	10	273
1994	2	4	182	0	2	165	1	4	255
1995	1	5	214	0	1	183	1	1	266
All gear									
1991	732	599	605	40	99	259	744	610	700
1992	771	674	672	35	72	304	773	673	799
1993	591	550	577	12	36	262	592	553	693
1994	648	626	548	21	41	276	645	621	671
1995	652	416	572	44	109	311	657	448	687

Source: Blend estimates, fish tickets, Norpac data, federal permit file, CFEC vessel data, National Marine Fisheries Service, 7600 Sand Point Way N.E., BIN C15700, Seattle, WA 98115-0070.

Table 25.--Numbers, mean length, and mean registered tons of vessels that caught groundfish off Alaska by area, vessel length class (feet), catcher type, and gear, 1991-95.

	Gulf of Alaska				Bering Sea and Aleutian				All Alaska			
	Vessel length class				Vessel length class				Vessel length class			
	<60	60- 124	125- 230	>230	<60	60- 124	125- 230	>230	<60	60- 124	125- 230	>230
Number of vessels												
Catcher vessels (excluding catcher-processors)												
Fixed												
1991	1399	190	2	0	101	70	4	0	1421	214	6	0
1992	1527	207	7	0	64	75	11	0	1536	237	15	0
1993	1250	148	0	0	36	36	3	0	1258	163	3	0
1994	1351	190	2	0	63	48	5	0	1364	212	6	0
1995	1149	198	9	0	86	136	19	0	1180	254	23	0
Trawl												
1991	42	106	10	0	3	91	11	0	45	129	11	0
1992	59	109	15	0	6	97	28	1	62	131	28	1
1993	62	86	9	0	8	87	22	0	67	126	22	0
1994	62	82	18	0	3	77	26	0	62	110	26	0
1995	57	108	20	0	4	95	22	1	59	122	24	1
All gear												
1991	1422	262	12	0	103	156	14	0	1445	304	16	0
1992	1558	295	22	0	70	167	39	1	1567	342	43	1
1993	1290	218	9	0	43	123	25	0	1302	273	25	0
1994	1379	247	20	0	66	125	31	0	1392	297	32	0
1995	1173	285	29	0	90	225	40	1	1203	348	46	1
Catcher-processors												
Fixed												
1991	1	16	3	0	0	23	25	0	1	23	25	0
1992	4	24	23	0	0	28	47	0	4	30	49	0
1993	4	27	23	0	1	31	31	0	4	32	31	0
1994	3	30	21	0	2	33	26	0	3	35	26	0
1995	5	18	16	0	2	28	27	0	5	29	27	0
Trawl												
1991	0	7	35	10	0	7	44	19	0	8	44	19
1992	0	8	28	6	0	12	40	19	0	13	40	19
1993	0	8	22	5	0	9	37	21	0	9	38	21
1994	0	5	17	4	0	5	34	21	0	6	34	21
1995	0	8	20	8	0	10	35	22	0	10	36	22
All gear												
1991	1	23	38	10	0	29	65	19	1	30	65	19
1992	4	31	49	6	0	33	79	19	4	36	80	19
1993	4	34	43	5	1	39	62	21	4	40	62	21
1994	3	35	38	4	2	38	58	21	3	41	58	21
1995	5	26	36	8	2	36	60	22	5	37	61	22
All catchers												
All gear												
1991	1422	285	48	10	103	180	77	19	1445	329	77	19
1992	1558	321	70	6	70	198	109	20	1567	371	113	20
1993	1291	247	52	5	43	157	85	21	1303	302	85	21
1994	1380	271	58	4	68	156	86	21	1393	321	87	21
1995	1175	306	63	8	91	248	96	22	1205	370	101	22

Table 25.--Continued.

	Gulf of Alaska				Bering Sea and Aleutian				All Alaska			
	Vessel length class				Vessel length class				Vessel length class			
	<60	60- 124	125- 230	>230	<60	60- 124	125- 230	>230	<60	60- 124	125- 230	>230
Mean vessel length (feet)												
Catcher vessels (excluding catcher-processors)												
Fixed												
1991	41	73	153	-	45	79	143	-	41	76	146	-
1992	41	76	155	-	43	84	148	-	41	79	150	-
1993	41	74	-	-	47	80	127	-	41	76	127	-
1994	42	75	137	-	43	83	141	-	42	77	142	-
1995	42	78	132	-	45	87	140	-	42	83	139	-
Trawl												
1991	50	89	153	-	44	95	154	-	50	89	154	-
1992	52	88	154	-	50	96	159	363	51	90	159	363
1993	51	87	146	-	40	97	158	-	50	91	158	-
1994	51	91	151	-	55	98	156	-	51	92	156	-
1995	54	94	157	-	44	99	161	280	53	94	161	280
All gear												
1991	41	79	153	-	45	88	153	-	41	81	153	-
1992	41	80	154	-	44	91	156	363	41	83	156	363
1993	42	79	146	-	46	92	154	-	42	83	154	-
1994	42	80	150	-	44	92	154	-	42	83	154	-
1995	42	84	149	-	45	92	151	280	42	87	150	280
Catcher-processors												
Fixed												
1991	58	98	153	-	-	103	158	-	58	103	158	-
1992	53	98	154	-	-	101	160	-	53	99	162	-
1993	55	99	155	-	57	102	159	-	55	101	159	-
1994	54	98	155	-	57	98	162	-	54	96	162	-
1995	50	96	153	-	47	101	159	-	50	100	159	-
Trawl												
1991	-	100	180	285	-	104	179	294	-	103	179	294
1992	-	103	177	300	-	97	184	296	-	96	184	296
1993	-	103	180	265	-	104	185	293	-	104	184	293
1994	-	99	179	264	-	104	189	288	-	102	189	288
1995	-	103	187	272	-	103	188	287	-	103	188	287
All gear												
1991	58	99	178	285	-	104	172	294	58	103	172	294
1992	53	99	166	300	-	102	171	296	53	100	171	296
1993	55	99	168	265	57	102	174	293	55	101	174	293
1994	54	98	166	264	57	98	176	288	54	97	176	288
1995	50	98	172	272	47	101	175	287	50	101	175	287
All catchers												
All gear												
1991	41	80	173	285	45	90	169	294	41	83	169	294
1992	41	82	163	300	44	92	166	299	41	85	166	299
1993	42	82	164	265	46	94	168	293	42	85	168	293
1994	42	82	161	264	44	94	168	288	42	84	167	288
1995	42	86	161	272	45	93	165	287	42	88	164	287

Table 25.--Continued.

	Gulf of Alaska				Bering Sea and Aleutian				All Alaska			
	Vessel length class				Vessel length class				Vessel length class			
	<60	60- 124	125- 230	>230	<60	60- 124	125- 230	>230	<60	60- 124	125- 230	>230
Mean registered net tons												
Catcher vessels (excluding catcher-processors)												
Fixed												
1991	20	80	279	-	28	83	130	-	20	85	180	-
1992	21	83	194	-	27	95	247	-	21	90	227	-
1993	21	80	-	-	30	86	153	-	21	83	153	-
1994	22	84	135	-	23	93	212	-	22	88	199	-
1995	22	86	190	-	28	103	183	-	22	95	190	-
Trawl												
1991	46	122	388	-	18	133	374	-	44	124	374	-
1992	51	118	299	-	36	131	333	2196	49	122	333	2196
1993	52	119	213	-	32	131	336	-	49	124	336	-
1994	53	125	244	-	80	132	273	-	53	126	273	-
1995	55	125	295	-	40	132	297	898	53	125	317	898
All gear												
1991	21	93	370	-	27	111	322	-	21	98	317	-
1992	21	94	265	-	28	114	309	2196	21	100	296	2196
1993	22	94	213	-	30	118	314	-	22	101	314	-
1994	22	95	233	-	25	117	263	-	22	100	259	-
1995	23	99	262	-	29	115	245	898	23	105	256	898
Catcher-processors												
Fixed												
1991	52	120	249	-	-	166	398	-	52	166	398	-
1992	43	142	364	-	-	169	372	-	43	163	382	-
1993	47	143	393	-	63	158	410	-	47	156	410	-
1994	48	143	404	-	57	137	440	-	48	133	440	-
1995	30	117	451	-	23	139	425	-	30	139	425	-
Trawl												
1991	-	167	622	1831	-	166	623	2078	-	163	623	2078
1992	-	150	552	1939	-	165	650	2042	-	158	650	2042
1993	-	150	609	1452	-	148	615	1870	-	148	609	1870
1994	-	125	677	1056	-	145	709	1773	-	132	709	1773
1995	-	134	650	1820	-	130	641	1750	-	130	635	1750
All gear												
1991	52	134	592	1831	-	167	534	2078	52	167	534	2078
1992	43	137	465	1939	-	162	507	2042	43	155	504	2042
1993	47	138	510	1452	63	151	527	1870	47	149	527	1870
1994	48	141	526	1056	57	138	580	1773	48	133	580	1773
1995	30	122	561	1820	23	140	545	1750	30	139	543	1750
All catchers												
All gear												
1991	21	96	550	1831	27	119	506	2078	21	104	506	2078
1992	21	98	404	1939	28	122	441	2050	21	105	432	2050
1993	22	99	459	1452	30	126	455	1870	22	107	455	1870
1994	22	100	425	1056	26	124	466	1773	22	104	462	1773
1995	23	101	420	1820	28	119	432	1750	23	108	420	1750

Source: Blend estimates, fish tickets, Norpac data, federal permit file, CFEC vessel data, National Marine Fisheries Service, 7600 Sand Point Way N.E., BIN C15700, Seattle, WA 98115-0070.

Table 26.--Number of vessels that caught groundfish off Alaska by area, processor category, target, and gear, 1991-95.

	Gulf of Alaska			Bering Sea and Aleutian			All Alaska		
	At-sea	On-shore	Total	At-sea	On-shore	Total	At-sea	On-shore	Total
Gear/Target/Year									
All gear									
All groundfish									
1991	86	1,861	1,936	147	273	398	153	1,930	2,054
1992	98	2,032	2,117	172	263	411	180	2,102	2,245
1993	88	1,638	1,718	168	177	310	172	1,712	1,838
1994	81	1,754	1,822	160	213	338	164	1,820	1,937
1995	83	1,570	1,640	179	345	464	183	1,680	1,792
Hook and line									
Sablefish									
1991	16	922	936	15	75	89	18	929	944
1992	26	1,068	1,087	16	63	79	31	1,070	1,094
1993	48	875	916	31	46	73	53	886	929
1994	51	1,098	1,136	27	40	63	55	1,102	1,139
1995	25	663	684	15	78	90	28	668	690
Pacific cod									
1991	11	612	623	39	120	155	40	695	730
1992	36	708	742	56	69	124	64	754	815
1993	17	442	458	53	9	62	54	449	502
1994	12	312	324	48	43	91	48	333	381
1995	20	505	525	44	57	100	46	549	594
Flatfish									
1991	0	2	2	2	2	4	2	4	6
1992	1	5	6	4	3	7	5	7	12
1993	1	2	3	44	26	70	44	26	70
1994	0	1	1	21	16	36	21	17	37
1995	3	0	3	37	8	44	38	8	45
Rockfish									
1991	0	602	602	4	4	8	4	604	608
1992	8	640	647	2	3	5	9	643	651
1993	5	588	593	12	7	19	15	593	608
1994	5	597	602	3	2	5	8	599	607
1995	1	582	582	3	18	21	4	595	598
All groundfish									
1991	19	1,660	1,676	42	158	195	43	1,695	1,730
1992	47	1,771	1,810	59	105	163	67	1,789	1,847
1993	54	1,468	1,515	60	59	115	64	1,484	1,537
1994	52	1,597	1,636	57	87	138	60	1,617	1,659
1995	35	1,323	1,351	47	136	175	51	1,363	1,403
Pot									
Pacific cod									
1991	1	162	163	12	25	37	12	184	196
1992	4	221	225	19	54	73	19	257	276
1993	0	102	102	3	17	20	3	114	117
1994	2	109	111	5	34	38	5	131	135
1995	4	187	190	11	116	124	11	258	265
All groundfish									
1991	1	164	165	12	25	37	12	186	198
1992	4	222	226	20	54	74	20	258	278
1993	0	103	103	3	18	21	3	115	118
1994	2	110	112	6	35	40	6	133	138
1995	4	188	191	11	118	126	11	259	266

Table 26.--Continued.

Gear/Target/Year	Gulf of Alaska			Bering Sea and Aleutian			All Alaska		
	At-sea	On-shore	Total	At-sea	On-shore	Total	At-sea	On-shore	Total
Trawl									
Pollock									
1991	26	92	116	76	65	137	81	104	179
1992	12	118	130	89	94	169	91	146	220
1993	1	99	100	95	82	154	95	139	208
1994	2	115	117	83	76	139	83	131	192
1995	10	129	138	102	84	156	102	139	199
Sablefish									
1991	1	2	3	12	1	13	13	3	16
1992	1	0	1	2	0	2	3	0	3
1993	2	4	6	1	0	1	3	4	7
1994	8	7	15	8	4	12	14	11	25
1995	3	1	4	4	2	6	7	3	10
Pacific cod									
1991	29	134	160	60	71	124	61	165	219
1992	27	140	165	49	66	111	56	174	225
1993	10	120	130	48	70	117	50	171	220
1994	7	114	121	39	70	107	40	167	205
1995	17	138	154	59	72	123	62	172	225
Flatfish									
1991	29	35	62	63	24	86	67	56	120
1992	20	44	63	62	34	90	63	73	130
1993	24	49	72	54	0	54	57	49	104
1994	13	43	56	42	28	70	43	68	110
1995	22	44	65	65	24	88	65	66	128
Rockfish									
1991	24	4	28	20	2	22	36	6	42
1992	24	3	26	31	2	33	39	5	43
1993	16	1	17	25	0	25	29	1	30
1994	13	5	18	14	0	14	18	5	23
1995	21	6	27	14	0	14	22	6	28
Atka mack.									
1991	0	0	0	29	0	29	29	0	29
1992	0	0	0	31	3	34	31	3	34
1993	0	0	0	23	0	23	23	0	23
1994	12	0	12	15	0	15	17	0	17
1995	2	0	2	17	0	17	18	0	18
All groundfish									
1991	66	160	218	100	99	182	105	183	267
1992	50	186	233	112	113	204	113	214	303
1993	37	157	193	112	102	183	113	205	283
1994	27	161	188	101	94	167	102	186	260
1995	44	181	220	126	104	184	126	194	268

Note: Processor category, at-sea and on-shore, refer to where processing occurred. This is NOT the same as inshore/offshore for cod and pollock allocation. A target is calculated based on vessel, week, processing mode, NMFS area, and gear.

Source: Blend estimates, fish tickets, Norpac data, federal permit file, CFEC vessel data, National Marine Fisheries Service, 7600 Sand Point Way N.E., BIN C15700, Seattle, WA 98115-0070.

Table 27.--Number of vessels that caught groundfish off Alaska by area, residency, target, and gear, 1991-95.

	Gulf of Alaska			Bering Sea and Aleutian			All Alaska		
	Alaska	Other	Unk.	Alaska	Other	Unk.	Alaska	Other	Unk.
Gear/Target/Year									
All gear									
All groundfish									
1991	1,487	414	33	121	268	9	1,513	500	40
1992	1,622	457	37	110	293	8	1,645	555	45
1993	1,348	357	10	63	243	3	1,361	463	13
1994	1,378	376	66	88	227	21	1,398	464	74
1995	1,193	348	79	134	297	32	1,229	454	91
Hook and line									
Sablefish									
1991	709	216	11	34	53	2	711	221	12
1992	831	243	13	30	49	0	834	247	13
1993	703	207	6	20	52	1	706	216	7
1994	845	254	37	18	43	2	845	257	37
1995	510	141	33	30	55	5	511	146	33
Pacific cod									
1991	551	64	8	77	76	2	598	122	10
1992	634	102	6	51	73	0	663	146	6
1993	415	42	1	16	46	0	425	76	1
1994	290	27	7	42	43	6	314	56	11
1995	457	50	18	52	41	7	493	77	24
Flatfish									
1991	1	1	0	2	2	0	3	3	0
1992	5	1	0	4	3	0	8	4	0
1993	1	2	0	17	53	0	17	53	0
1994	0	1	0	5	28	3	5	29	3
1995	0	2	1	6	34	4	6	34	5
Rockfish									
1991	526	67	9	4	4	0	528	71	9
1992	567	71	9	4	1	0	571	71	9
1993	527	60	6	6	13	0	532	70	6
1994	511	65	26	1	4	0	512	69	26
1995	493	59	30	4	16	1	495	73	30
All groundfish									
1991	1,367	280	28	93	99	3	1,389	310	30
1992	1,464	317	28	62	101	0	1,479	339	28
1993	1,247	258	9	32	82	1	1,253	273	10
1994	1,287	291	57	57	71	8	1,302	297	59
1995	1,060	205	65	78	86	11	1,089	225	68
Pot									
Pacific cod									
1991	140	21	2	5	30	2	143	49	4
1992	197	26	2	16	57	0	201	73	2
1993	92	8	2	6	14	0	93	22	2
1994	97	9	5	13	23	2	100	28	7
1995	154	30	6	38	78	8	163	91	11
All groundfish									
1991	142	21	2	5	30	2	145	49	4
1992	197	27	2	16	57	0	201	74	2
1993	93	8	2	6	14	0	94	22	2
1994	98	9	5	14	24	2	102	29	7
1995	154	30	7	39	78	8	163	91	12

Table 27.--Continued.

Gear/Target/Year	Gulf of Alaska			Bering Sea and Aleutian			All Alaska		
	Alaska	Other	Unk.	Alaska	Other	Unk.	Alaska	Other	Unk.
Trawl									
Pollock									
1991	33	81	2	17	117	3	43	132	4
1992	41	87	2	27	136	6	55	157	8
1993	43	57	0	24	128	2	57	149	2
1994	43	67	7	15	113	11	49	131	12
1995	38	94	6	19	127	10	42	145	12
Sablefish									
1991	2	1	0	3	10	0	5	11	0
1992	0	1	0	1	1	0	1	2	0
1993	4	2	0	0	1	0	4	3	0
1994	6	9	0	3	8	1	9	15	1
1995	2	2	0	1	5	0	3	7	0
Pacific cod									
1991	74	85	1	11	112	1	79	138	2
1992	80	81	4	13	96	2	88	131	6
1993	73	57	0	11	106	0	82	138	0
1994	72	44	5	7	94	6	75	120	10
1995	71	75	8	14	101	8	77	133	15
Flatfish									
1991	27	35	0	9	76	1	30	89	1
1992	27	35	1	11	79	0	35	94	1
1993	32	40	0	8	46	0	38	66	0
1994	29	25	2	8	57	5	35	69	6
1995	26	35	4	6	75	7	29	89	10
Rockfish									
1991	6	22	0	4	18	0	9	33	0
1992	7	19	0	6	27	0	9	34	0
1993	4	13	0	7	18	0	8	22	0
1994	5	12	1	6	7	1	9	13	1
1995	4	20	3	1	10	3	4	21	3
Atka mack.									
1991	0	0	0	4	25	0	4	25	0
1992	0	0	0	9	25	0	9	25	0
1993	0	0	0	7	16	0	7	16	0
1994	5	6	1	6	8	1	6	10	1
1995	0	2	0	1	12	4	1	13	4
All groundfish									
1991	86	128	3	25	153	4	90	171	6
1992	92	133	7	36	160	8	102	186	15
1993	86	105	0	26	155	2	93	188	2
1994	82	95	10	20	136	11	85	161	14
1995	76	129	13	24	146	14	81	168	19

Note: A target is calculated based on vessel, week, processing mode, NMFS area, and gear. Vessels are classified by the residency of the owner of the fishing vessel.

Source: Blend estimates, fish tickets, Norpac data, federal permit file, CFEC vessel data, National Marine Fisheries Service, 7600 Sand Point Way N.E., BIN C15700, Seattle, WA 98115-0070.

Table 28.--Number of vessels that caught groundfish off Alaska by month, area, catcher type, and gear, 1991-95.

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Area/Catcher type/Gear/Year													
Gulf of Alaska													
Catcher vessels (excluding catcher-processors)													
Hook and line													
1991	57	91	246	233	1225	519	75	54	508	30	50	33	1660
1992	97	185	316	215	919	1089	229	90	522	406	40	26	1771
1993	63	113	161	67	811	953	62	32	472	152	40	30	1468
1994	98	131	131	56	827	924	60	38	923	151	36	34	1597
1995	130	122	199	282	520	445	229	246	364	273	179	2	1323
Pot													
1991	44	58	112	92	20	2	0	1	0	6	21	34	164
1992	63	119	161	103	0	1	1	1	15	14	0	0	222
1993	11	74	97	7	4	2	0	0	0	0	0	0	103
1994	34	76	77	6	4	0	0	0	0	1	8	18	110
1995	112	108	144	13	6	4	0	3	5	12	11	8	188
Trawl													
1991	71	94	120	71	17	34	76	20	21	43	4	0	165
1992	75	124	158	75	25	51	79	26	3	59	21	2	192
1993	36	101	124	42	4	63	64	41	8	72	21	8	159
1994	80	106	117	36	11	56	66	20	5	81	6	0	162
1995	71	91	137	34	24	81	65	0	0	102	0	0	186
All gear													
1991	171	241	470	388	1250	552	151	74	527	79	74	66	1866
1992	217	424	625	386	941	1139	309	115	540	474	61	28	2037
1993	110	285	377	115	817	1012	126	72	480	224	61	38	1640
1994	209	308	324	98	838	970	126	58	926	233	50	49	1755
1995	302	314	471	326	548	524	293	248	369	385	187	10	1575
Catcher-processors													
Hook and line													
1991	6	4	6	1	13	11	6	0	2	0	0	0	19
1992	20	14	16	3	22	21	13	13	19	14	1	0	47
1993	13	10	10	0	48	38	0	0	2	1	0	0	54
1994	6	10	11	1	50	10	1	0	6	2	0	0	52
1995	6	13	15	4	11	14	7	4	6	6	5	1	35
Pot													
1991	0	0	0	0	0	0	0	0	0	0	1	1	1
1992	1	0	0	0	0	1	0	2	0	0	0	0	4
1994	0	0	0	0	1	0	0	0	1	0	0	0	2
1995	0	0	3	0	0	0	0	0	0	1	0	0	4
Trawl													
1991	4	8	31	20	12	3	12	7	13	27	0	0	53
1992	7	12	29	22	18	0	17	14	0	16	9	0	42
1993	0	9	22	27	0	0	19	8	1	8	2	2	35
1994	1	1	17	9	0	1	19	11	4	9	0	0	26
1995	2	8	13	12	7	0	22	0	2	21	0	0	36
All gear													
1991	10	12	37	21	25	14	18	7	15	27	1	1	73
1992	28	26	45	25	40	22	30	29	19	30	10	0	90
1993	13	19	32	27	48	38	19	8	3	9	2	2	86
1994	7	11	28	10	51	11	20	11	11	11	0	0	80
1995	8	21	31	16	18	14	29	4	8	28	5	1	75

Table 28.--Continued.

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Area/Catcher type/Gear/Year													
Bering Sea and Aleutian Islands													
Catcher vessels (excluding catcher-processors)													
Hook and line													
1991	2	6	8	17	16	21	75	101	12	5	13	14	158
1992	2	0	5	23	24	33	44	66	5	2	0	0	105
1993	1	4	5	11	22	21	23	22	5	0	0	1	59
1994	1	1	2	12	26	22	26	36	20	19	15	16	87
1995	11	8	11	21	38	38	44	34	37	17	18	8	136
Pot													
1991	0	0	1	1	0	1	7	6	6	6	5	4	25
1992	8	6	2	7	21	13	12	18	7	0	0	0	54
1993	0	0	2	17	11	0	0	0	0	0	0	0	18
1994	0	0	11	15	12	0	0	0	6	22	3	0	35
1995	2	13	50	48	37	18	5	8	20	14	12	19	118
Trawl													
1991	75	77	58	54	47	70	61	71	68	7	0	0	113
1992	72	97	97	56	42	80	95	101	82	3	0	17	142
1993	52	93	83	81	32	4	2	86	89	73	0	0	120
1994	79	81	76	60	38	7	5	85	92	72	6	1	110
1995	70	92	92	74	26	7	1	102	112	19	1	0	124
All gear													
1991	77	83	67	72	62	91	142	177	86	18	17	18	287
1992	80	103	103	86	84	126	151	183	94	5	0	17	291
1993	53	97	90	108	65	25	25	108	94	73	0	1	195
1994	80	82	89	87	76	29	31	121	118	112	24	17	229
1995	83	113	152	140	100	62	49	143	168	48	29	26	363
Catcher-processors													
Hook and line													
1991	13	18	22	22	21	23	33	30	29	30	29	29	42
1992	28	27	40	43	47	39	48	54	40	0	0	0	59
1993	39	37	47	51	47	41	19	8	6	5	4	4	60
1994	34	38	50	50	46	13	14	12	40	38	4	5	57
1995	29	32	36	40	40	5	4	5	35	36	25	21	47
Pot													
1991	0	1	2	2	0	0	5	5	6	5	3	3	12
1992	0	0	0	0	11	11	13	15	12	0	0	0	20
1993	0	0	1	2	1	0	1	0	0	0	0	0	3
1994	0	0	2	2	3	0	0	0	2	4	1	1	6
1995	0	1	6	3	6	5	4	5	5	4	0	0	10
Trawl													
1991	59	63	63	44	52	63	59	54	56	21	3	0	71
1992	59	65	55	49	45	59	48	57	27	17	14	19	71
1993	64	65	55	48	32	27	20	56	53	32	17	15	67
1994	53	54	53	33	23	21	21	51	53	41	24	7	60
1995	60	62	57	46	35	1	24	58	55	35	4	0	67
All gear													
1991	72	82	87	68	73	86	96	89	91	56	35	32	118
1992	83	91	95	87	96	109	109	123	78	17	14	19	131
1993	99	102	102	100	80	68	40	64	59	37	21	19	123
1994	87	92	103	85	72	34	35	63	95	83	28	12	119
1995	89	95	98	88	80	11	32	67	95	75	29	21	120

Table 28.--Continued.

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Area/Catcher type/Gear/Year													
All Alaska													
Catcher vessels (excluding catcher-processors)													
Hook and line													
1991	59	97	254	248	1234	526	128	150	517	35	63	46	1695
1992	99	185	319	234	927	1109	258	134	527	408	40	26	1789
1993	64	117	166	78	821	965	85	53	476	152	40	31	1484
1994	99	132	133	67	842	940	83	72	940	167	44	47	1617
1995	141	130	208	301	549	469	254	270	387	287	195	10	1363
Pot													
1991	44	58	113	92	20	3	7	6	6	12	26	38	186
1992	70	124	161	106	21	14	13	19	21	14	0	0	258
1993	11	74	98	23	14	2	0	0	0	0	0	0	115
1994	34	76	88	21	16	0	0	0	6	22	10	18	133
1995	114	119	182	54	38	21	5	11	24	26	23	27	259
Trawl													
1991	141	158	151	113	62	96	98	90	85	43	4	0	197
1992	144	199	198	124	67	121	131	121	82	60	21	19	241
1993	87	188	190	119	36	65	65	109	93	117	21	8	220
1994	157	181	182	90	48	59	69	102	95	110	12	1	202
1995	137	171	190	102	49	84	65	102	112	109	1	0	209
All gear													
1991	243	311	510	445	1303	621	232	244	606	90	91	83	1944
1992	292	504	667	457	1007	1242	401	270	629	477	61	45	2127
1993	162	376	449	218	869	1026	150	161	569	269	61	39	1727
1994	287	384	402	178	900	989	152	174	1039	298	66	63	1836
1995	381	413	570	451	632	567	322	381	520	416	214	36	1692
Catcher-processors													
Hook and line													
1991	15	20	23	23	25	28	33	30	30	30	29	29	43
1992	39	38	43	46	51	53	53	57	50	14	1	0	67
1993	46	44	48	51	56	50	19	8	8	6	4	4	64
1994	37	42	50	50	53	22	14	12	41	39	4	5	60
1995	33	36	41	42	41	15	8	8	38	38	26	21	51
Pot													
1991	0	1	2	2	0	0	5	5	6	5	3	3	12
1992	1	0	0	0	11	11	13	15	12	0	0	0	20
1993	0	0	1	2	1	0	1	0	0	0	0	0	3
1994	0	0	2	2	3	0	0	0	2	4	1	1	6
1995	0	1	6	3	6	5	4	5	5	4	0	0	10
Trawl													
1991	60	64	66	56	53	63	63	60	63	35	3	0	72
1992	61	66	65	58	47	59	60	58	27	31	22	19	72
1993	64	65	64	55	32	27	34	58	53	32	19	16	68
1994	53	54	54	36	23	21	30	56	55	44	24	7	61
1995	60	62	61	51	37	1	30	58	55	41	4	0	68
All gear													
1991	75	85	91	81	78	91	100	95	99	70	35	32	120
1992	95	103	108	99	102	123	126	127	88	45	23	19	139
1993	106	109	111	107	87	77	53	66	61	38	23	20	127
1994	90	96	104	88	79	43	44	68	98	87	28	12	123
1995	93	99	107	95	83	21	42	70	98	83	30	21	125

Source: Blend estimates, fish tickets, Norpac data, federal permit file, CFEC vessel data, National Marine Fisheries Service, 7600 Sand Point Way N.E., BIN C15700, Seattle, WA 98115-0070.

Table 29.--Catcher vessel (excluding catcher-processors) weeks of fishing groundfish off Alaska by area, vessel length class (feet), gear, and target, 1991-95.

	Gulf of Alaska			Bering Sea and Aleutian			All Alaska		
	Vessel length class			Vessel length class			Vessel length class		
	<60	60- 124	>124	<60	60- 124	>124	<60	60- 124	>124
Gear/Target/Year									
Hook and line									
Sablefish									
1991	1,853	390	1	70	79	1	1,923	469	2
1992	2,098	435	-	49	58	-	2,146	493	-
1993	1,639	252	-	54	41	-	1,693	293	-
1994	2,081	366	-	41	34	-	2,122	400	-
1995	1,399	464	2	67	82	-	1,466	546	2
Pacific cod									
1991	1,448	93	-	181	72	2	1,629	165	2
1992	1,891	112	1	119	35	-	2,010	146	1
1993	964	49	-	12	0	-	976	49	-
1994	710	44	-	245	8	-	956	52	-
1995	1,060	97	-	360	4	-	1,420	101	-
Flatfish									
1991	1	0	-	2	-	-	3	0	-
1992	4	0	-	0	2	-	4	2	-
1993	0	0	-	37	14	-	38	14	-
1994	1	-	-	8	12	-	9	12	-
1995	-	-	-	6	7	-	6	7	-
Rockfish									
1991	1,232	25	0	2	1	-	1,234	26	0
1992	1,342	37	-	3	1	-	1,345	38	-
1993	1,189	30	-	5	2	-	1,194	32	-
1994	1,260	25	-	1	1	-	1,261	26	-
1995	1,384	23	-	7	11	-	1,391	34	-
All groundfish									
1991	4,538	508	1	257	153	4	4,794	661	4
1992	5,345	583	1	172	95	-	5,516	678	1
1993	3,795	331	-	109	57	-	3,903	388	-
1994	4,059	435	-	301	55	-	4,360	490	-
1995	3,894	588	2	440	105	-	4,334	693	2
Pot									
Pacific cod									
1991	553	429	-	2	62	1	555	491	1
1992	713	347	10	3	167	31	716	514	40
1993	349	159	-	-	47	13	349	207	13
1994	403	156	1	13	122	24	416	278	25
1995	716	341	10	68	383	69	783	724	79
All groundfish									
1991	554	429	-	2	62	1	557	491	1
1992	716	348	10	3	171	31	719	519	40
1993	350	161	-	-	48	13	350	210	13
1994	404	156	1	13	124	24	417	280	25
1995	716	342	10	68	384	69	783	726	79

Table 29.--Continued.

	Gulf of Alaska			Bering Sea and Aleutian			All Alaska		
	Vessel length class			Vessel length class			Vessel length class		
	<60	60- 124	>124	<60	60- 124	>124	<60	60- 124	>124
Trawl									
Pollock									
1991	28	385	9	4	931	176	32	1,316	185
1992	62	413	26	9	1,245	385	72	1,657	411
1993	79	488	27	7	860	320	86	1,348	348
1994	100	416	48	1	781	340	101	1,197	388
1995	91	301	39	6	933	248	97	1,234	288
Pacific cod									
1991	341	537	12	2	454	52	343	991	65
1992	402	368	16	2	288	40	404	656	56
1993	327	275	0	7	362	30	334	638	30
1994	335	229	1	11	367	57	346	597	58
1995	246	268	7	-	368	37	246	636	44
Flatfish									
1991	7	207	-	1	84	61	8	291	61
1992	23	269	-	-	72	20	23	342	20
1993	34	314	-	-	8	-	34	322	-
1994	22	259	1	-	40	20	22	300	21
1995	24	198	1	-	88	15	24	287	17
Rockfish									
1991	6	3	-	-	2	-	6	5	-
1992	-	5	-	-	2	-	-	7	-
1993	-	1	-	-	2	-	-	3	-
1994	-	4	1	-	-	-	-	4	1
1995	-	8	2	-	-	-	-	8	2
All groundfish									
1991	383	1,134	22	7	1,473	290	390	2,607	312
1992	488	1,058	42	11	1,615	448	499	2,673	490
1993	439	1,086	27	14	1,233	350	453	2,318	378
1994	458	917	51	12	1,193	417	470	2,110	468
1995	363	781	51	6	1,391	300	369	2,172	351
All gear									
All groundfish									
1991	5,475	2,070	22	266	1,689	294	5,741	3,759	317
1992	6,549	1,990	53	186	1,881	478	6,735	3,870	531
1993	4,584	1,578	27	123	1,338	363	4,707	2,916	391
1994	4,921	1,509	52	326	1,371	441	5,247	2,880	493
1995	4,972	1,710	62	514	1,881	370	5,486	3,591	432

Notes: A vessel which fished more than one category in a week is apportioned a partial week based on catch weight. A target is calculated based on vessel, week, processing mode, NMFS area, and gear. Totals may include additional categories.

Source: Blend estimates, fish tickets, Norpac data, federal permit file, CFEC vessel data, National Marine Fisheries Service, 7600 Sand Point Way N.E., BIN C15700, Seattle, WA 98115-0070.

Table 30.--Catcher-processor vessel weeks of fishing groundfish off Alaska by area, vessel length class (feet), gear, and target, 1991-95.

	Gulf of Alaska			Bering Sea and Aleutian			All Alaska		
	Vessel length class			Vessel length class			Vessel length class		
	<60	60- 124	125- 230	<60	60- 124	125- 230	<60	60- 124	125- 230
Gear/Target/Year									
Hook and line									
Sablefish									
1991	1	64	7	-	131	18	1	194	25
1992	12	100	18	-	114	11	12	214	28
1993	7	76	50	4	204	18	11	280	68
1994	8	59	41	14	172	18	22	231	59
1995	17	54	37	-	71	8	17	125	45
Pacific cod									
1991	6	24	7	-	547	345	6	572	352
1992	12	122	45	-	432	672	12	554	717
1993	5	68	2	-	251	382	5	318	384
1994	7	60	-	0	335	526	7	395	526
1995	0	69	9	2	289	574	2	358	582
Flatfish									
1991	-	-	-	-	1	1	-	1	1
1992	-	1	-	-	3	0	-	3	0
1993	-	-	1	2	66	72	2	66	73
1994	-	-	-	-	16	10	-	16	10
1995	1	1	1	-	34	28	1	35	29
Rockfish									
1991	-	-	-	-	4	-	-	4	-
1992	1	7	2	-	0	-	1	7	2
1993	-	3	2	0	7	2	0	10	4
1994	1	2	1	-	1	0	1	3	1
1995	0	-	-	-	1	0	0	1	0
All groundfish									
1991	7	89	14	-	687	364	7	777	378
1992	25	232	67	-	552	685	25	784	752
1993	12	148	56	6	528	473	18	675	529
1994	16	120	42	15	527	557	31	647	599
1995	19	125	46	2	400	612	21	525	658
Pot									
Pacific cod									
1991	-	-	3	-	5	77	-	5	80
1992	-	-	2	-	2	193	-	2	196
1993	-	-	-	-	1	9	-	1	9
1994	-	0	0	-	7	27	-	7	27
1995	0	0	2	1	62	55	1	62	57
All groundfish									
1991	-	-	3	-	5	78	-	5	81
1992	-	-	2	-	2	193	-	2	196
1993	-	-	-	-	1	9	-	1	9
1994	-	0	0	-	10	28	-	10	28
1995	0	0	2	1	62	55	1	62	57

Table 30.--Continued.

	Gulf of Alaska			Bering Sea and Aleutian			All Alaska		
	Vessel length class			Vessel length class			Vessel length class		
	60- 124	125- 230	>230	60- 124	125- 230	>230	60- 124	125- 230	>230
Trawl									
Pollock									
1991	1	13	9	6	454	454	7	467	463
1992	3	0	2	8	303	358	11	303	360
1993	-	0	-	9	236	315	9	236	315
1994	-	-	0	-	223	303	-	223	303
1995	-	2	0	1	176	290	1	179	291
Sablefish									
1991	-	2	-	9	3	0	9	5	0
1992	-	0	-	2	-	-	2	0	-
1993	-	0	-	-	-	1	-	0	1
1994	2	1	-	0	2	0	2	2	0
1995	1	0	-	1	1	0	2	2	0
Pacific cod									
1991	8	28	4	37	175	32	46	203	36
1992	20	15	1	16	123	18	36	138	18
1993	5	6	-	8	108	27	13	114	27
1994	2	6	1	11	46	16	13	52	17
1995	4	9	1	20	79	28	24	88	29
Flatfish									
1991	37	66	1	71	533	64	108	599	64
1992	63	30	-	86	536	55	149	566	55
1993	65	58	3	113	468	62	178	526	65
1994	58	35	-	61	485	59	119	520	59
1995	73	31	-	94	377	73	167	408	73
Rockfish									
1991	1	99	6	0	38	5	1	136	11
1992	4	106	0	2	59	5	6	166	5
1993	5	58	2	3	56	6	8	113	8
1994	1	51	-	-	27	5	1	79	5
1995	3	61	2	-	34	-	3	95	2
Atka mack.									
1991	-	-	-	3	68	15	3	68	15
1992	-	-	-	3	82	21	3	82	21
1993	-	-	-	2	99	21	2	99	21
1994	3	10	1	0	105	21	3	114	22
1995	-	2	0	-	128	16	-	130	16
All groundfish									
1991	47	215	23	128	1,275	570	176	1,490	593
1992	90	186	7	116	1,113	456	206	1,299	463
1993	76	140	7	138	970	434	215	1,110	441
1994	66	103	2	73	889	404	139	992	406
1995	81	105	3	117	797	407	198	902	410

Table 30.--Continued.

	Gulf of Alaska				Bering Sea and Aleutian				All Alaska			
	Vessel length class				Vessel length class				Vessel length class			
	<60	60- 124	125- 230	>230	<60	60- 124	125- 230	>230	<60	60- 124	125- 230	>230
All gear												
All groundfish												
1991	7	137	232	23	-	821	1,717	570	7	957	1,949	593
1992	25	322	255	7	-	671	1,992	456	25	993	2,246	463
1993	12	224	196	7	6	667	1,452	434	18	891	1,648	441
1994	16	186	145	2	15	610	1,474	404	31	796	1,619	406
1995	20	207	154	3	2	578	1,464	407	22	785	1,618	410

Notes: A vessel which fished more than one category in a week is apportioned a partial week based on catch weight. A target is calculated based on vessel; week, processing mode, NMFS area, and gear. Totals may include additional categories.

Source: Blend estimates, fish tickets, Norpac data, federal permit file, CFEC vessel data, National Marine Fisheries Service, 7600 Sand Point Way N.E., BIN C15700, Seattle, WA 98115-0070.

Table 31.--Production of groundfish products in the fisheries off Alaska by species, 1991-95,
(1,000 metric tons product weight and million dollars).

	1991		1992		1993		1994		1995	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Pollock										
Whole fish	2.0	\$1.0	3.8	\$2.7	4.3	\$1.3	1.6	\$1.2	2.8	\$2.6
H&G	3.1	\$2.7	3.9	\$2.9	1.3	\$0.7	0.9	\$0.7	0.9	\$0.7
Roe	21.7	\$216.3	17.5	\$200.9	11.9	\$126.4	11.8	\$134.0	15.9	\$217.9
Deep-skin fillets	-	-	-	-	-	-	19.5	\$49.0	34.9	\$89.6
Other fillets	72.2	\$218.3	42.3	\$112.7	68.0	\$130.3	35.3	\$70.2	24.7	\$59.8
Surimi	139.8	\$450.9	162.8	\$544.7	150.4	\$251.0	182.0	\$369.7	178.2	\$440.0
Minced fish	10.7	\$16.9	14.8	\$16.6	16.4	\$14.3	10.9	\$9.1	9.8	\$9.0
Fish meal	57.3	\$32.1	59.9	\$31.3	54.0	\$27.0	52.1	\$25.5	50.9	\$28.4
Other products	7.2	\$1.0	8.3	\$1.9	11.4	\$2.1	12.2	\$3.3	15.1	\$5.4
All products		\$939.1		\$913.9		\$553.0		\$662.7		\$853.4
Pacific cod										
Whole fish	17.4	\$18.2	7.3	\$6.3	10.2	\$9.1	5.2	\$4.4	3.7	\$5.2
H&G	63.7	\$129.5	68.3	\$114.8	37.3	\$60.2	51.8	\$85.7	60.9	\$90.7
Salted/split	11.2	\$40.3	4.7	\$15.9	6.6	\$16.3	4.2	\$6.4	7.6	\$18.5
Fillets	18.3	\$91.8	14.9	\$66.2	12.5	\$49.8	12.3	\$45.8	19.2	\$78.3
Other products	14.4	\$19.1	11.8	\$15.1	7.9	\$9.7	8.3	\$10.8	17.2	\$24.1
All products		\$298.9		\$218.3		\$145.1		\$153.1		\$216.9
Sablefish										
H&G	15.6	\$95.9	14.8	\$91.1	16.3	\$97.1	16.1	\$112.2	12.4	\$109.3
Other products	0.6	\$2.0	0.3	\$0.8	0.1	\$0.3	0.6	\$3.2	0.2	\$1.2
All products		\$97.9		\$91.9		\$97.4		\$115.4		\$110.5

Table 31.--Continued.

	1991		1992		1993		1994		1995	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Flatfish										
Whole fish	34.2	\$29.4	30.6	\$21.5	28.7	\$22.8	42.9	\$34.9	55.8	\$54.3
H&G	28.4	\$69.9	33.8	\$55.4	36.5	\$57.6	30.3	\$68.2	28.7	\$60.3
Kiriti	14.9	\$44.2	14.1	\$17.0	12.8	\$24.8	17.5	\$25.4	6.3	\$10.3
Fillets	1.2	\$5.2	3.2	\$10.5	2.0	\$9.3	1.6	\$7.6	2.1	\$10.1
Other products	1.9	\$2.5	2.0	\$1.7	1.3	\$.8	1.8	\$1.8	3.1	\$2.5
All products		\$151.3		\$106.1		\$115.3		\$137.9		\$137.5
Rockfish										
Whole fish	4.2	\$6.2	2.2	\$2.5	5.1	\$4.8	2.8	\$2.3	1.4	\$1.7
H&G	8.4	\$16.1	14.6	\$32.2	11.6	\$22.5	9.4	\$17.4	11.5	\$27.6
Other products	0.8	\$1.0	0.5	\$1.1	0.4	\$.8	0.5	\$1.3	0.6	\$1.9
All products		\$23.2		\$35.9		\$28.1		\$21.0		\$31.2
Atka mackerel										
Whole fish	3.8	\$5.2	11.5	\$12.8	14.2	\$11.7	9.6	\$7.4	6.4	\$5.3
H&G	11.3	\$22.0	19.5	\$32.1	24.8	\$42.2	23.7	\$23.3	28.6	\$36.3
Other products	0.2	\$.1	1.0	\$2.1	.0	\$.0	1.5	\$2.2	1.4	\$2.6
All products		\$27.3		\$46.9		\$54.0		\$32.8		\$44.3
Total		\$1,537.7		\$1,412.8		\$992.8		\$1,122.9		\$1,393.8

Source: Weekly processor report data 1991-95, annual processor price survey, 1991-94, National Marine Fisheries Service, 7600 Sand Point Way N.E., BIN C15700, Seattle, WA 98115-0070.

Table 32.--Production of groundfish products in the fisheries off Alaska by species, product and area, 1991-95,
(1,000 metric tons product weight).

	Bering Sea and Aleutians					Gulf of Alaska				
	1991	1992	1993	1994	1995	1991	1992	1993	1994	1995
Pollock										
Whole fish	.4	2.4	4.0	1.5	2.7	1.6	1.3	.2	.1	.0
H&G	2.7	3.1	1.2	.9	.9	.4	.8	.1	.1	.0
Roe	21.3	17.2	11.4	10.7	15.3	.3	.3	.4	1.1	.6
Fillets	65.5	35.7	56.5	45.1	51.6	6.7	6.6	11.5	9.7	8.1
Surimi	131.9	154.9	144.3	172.9	170.8	7.9	7.9	6.0	9.1	7.4
Minced fish	9.1	13.8	13.2	9.8	9.3	1.6	1.0	3.2	1.1	.5
Fish meal	55.1	58.8	52.8	51.4	49.7	2.2	1.1	1.1	.7	1.3
Other products	6.8	8.2	11.0	11.9	14.5	.5	.1	.4	.3	.7
Pacific cod										
Whole fish	8.7	1.4	2.5	1.9	1.8	8.7	5.9	7.7	3.3	1.9
H&G	53.2	57.4	32.7	48.8	55.1	10.5	10.9	4.6	3.0	5.8
Salted/split	9.2	-	-	-	7.1	2.0	-	-	-	.5
Fillets	9.7	7.9	6.9	5.6	9.0	8.6	7.0	5.6	6.6	10.1
Other products	7.3	5.5	5.2	5.3	10.1	7.2	6.3	2.7	3.0	7.1
Sablefish										
H&G	2.0	1.2	1.6	1.3	1.3	13.6	13.6	14.6	14.8	11.1
Other products	.0	.0	.0	.0	.0	.5	.3	.1	.6	.2
Flatfish										
Whole fish	29.4	27.4	24.4	39.0	51.9	4.8	3.2	4.3	3.9	3.9
H&G	25.8	31.4	34.6	29.3	27.4	2.6	2.4	1.9	.9	1.2
Kiriimi	14.8	13.9	12.8	17.4	6.1	.1	.3	.0	.2	.2
Fillets	.1	1.4	.0	.4	.2	1.1	1.9	2.0	1.2	1.9
Other products	1.9	1.8	1.3	1.7	3.1	.0	.2	.0	.0	.1
Rockfish										
Whole fish	1.4	.4	.3	.7	.2	2.9	1.8	4.8	2.2	1.2
H&G	2.6	6.6	8.2	5.7	5.2	5.8	8.0	3.3	3.7	6.2
Other products	.2	.0	.1	.0	.0	.5	.5	.3	.5	.6
Atka mackerel										
Whole fish	-	-	-	9.6	-	-	-	-	-	.0
H&G	9.6	12.4	20.9	21.7	28.2	1.6	7.2	3.9	2.0	.4
Other products	.2	1.0	.0	1.5	1.4	-	-	.0	-	.0

Source: Weekly processor report, National Marine Fisheries Service, 7600 Sand Point Way N.E., BIN C15700, Seattle, WA 98115-0070.

Table 33.--Production of groundfish products in the fisheries off Alaska by species, product and processing mode, 1991-95, (1,000 metric tons product weight).

	On-shore					At-sea				
	1991	1992	1993	1994	1995	1991	1992	1993	1994	1995
Pollock										
Whole fish	1.3	2.0	.3	.2	.1	.7	1.8	4.0	1.4	2.7
H&G	.0	.6	.1	.1	-	3.0	3.3	1.2	.9	.9
Roe	2.8	4.6	1.7	4.0	4.4	18.9	12.9	10.1	7.8	11.5
Filletts	11.0	8.4	15.4	14.0	11.6	61.1	33.9	52.6	40.8	48.0
Surimi	51.4	71.3	75.3	88.7	84.7	88.5	91.5	75.1	93.3	93.6
Minced fish	1.3	1.0	2.4	1.2	.6	9.4	13.8	14.0	9.7	9.2
Fish meal	21.7	27.6	27.5	30.7	27.4	35.6	32.3	26.5	21.4	23.5
Other products	7.0	7.2	9.9	11.7	14.4	.2	1.1	1.6	.4	.8
Pacific cod										
Whole fish	13.8	5.1	8.3	4.2	3.1	3.6	2.2	1.9	1.0	.6
H&G	9.6	3.6	2.9	3.7	4.0	54.1	64.6	34.5	48.1	56.9
Salted/split	9.3	-	-	-	6.9	1.9	-	-	-	.7
Filletts	8.4	7.4	8.4	10.0	14.0	9.9	7.5	4.0	2.3	5.2
Other products	8.7	7.4	5.2	6.5	12.2	5.8	4.4	2.7	1.8	5.0
Sablefish										
H&G	12.3	11.2	12.1	12.8	9.9	3.3	3.7	4.2	3.4	2.5
Other products	.4	.2	.0	.5	.2	.2	.0	.1	.1	.1
Flatfish										
Whole fish	2.6	.5	.4	2.8	4.1	31.6	30.0	28.4	40.2	51.7
H&G	.3	.6	.7	.7	.7	28.1	33.2	35.8	29.5	28.0
Kirimi	.1	.3	.0	.3	.2	14.8	13.8	12.8	17.3	6.1
Filletts	1.1	1.9	2.0	1.3	1.9	.1	1.3	.0	.4	.2
Other products	1.0	.6	.0	1.0	1.2	1.0	1.5	1.3	.7	1.9
Rockfish										
Whole fish	.9	.5	.3	.4	.4	3.3	1.7	4.8	2.4	1.0
H&G	.4	.6	.4	.3	.5	8.0	14.0	11.2	9.2	11.0
Other products	.7	.4	.3	.5	.6	.0	.2	.1	.0	.0
Atka mackerel										
Whole fish	-	-	-	-	.0	-	-	-	9.6	-
H&G	-	-	-	-	-	11.3	19.5	24.8	23.7	28.6
Other products	-	.0	.0	.0	.0	.2	1.0	.0	1.5	1.4

Source: Weekly processor report, National Marine Fisheries Service, 7600 Sand Point Way N.E., BIN C15700, Seattle, WA 98115-0070.

Table 34.--Annual wholesale prices of frozen fish blocks and fillets,
F.O.B. East Coast, 1976-95, in cents/lb.

Year	Blocks				Fillets			
	Cod	Minced cod	Alaska pollock	Whiting	Cod (Canada)	Cod (Iceland)	Flounder	Ocean perch
1976	74.1	31.1	43.0	42.4	NA	111.2	106.1	84.9
1977	97.8	36.1	60.7	54.4	NA	126.7	116.7	93.1
1978	100.0	37.7	68.6	59.8	NA	130.0	126.3	98.1
1979	103.9	50.4	68.8	67.2	NA	155.0	148.1	106.7
1980	105.6	51.8	69.5	74.1	NA	160.0	144.5	101.8
1981	109.2	51.1	80.5	74.3	NA	172.3	118.2	101.0
1982	110.9	51.3	72.4	66.2	127.5	180.0	141.0	108.1
1983	116.9	39.9	65.6	61.2	126.5	180.0	144.9	104.2
1984	104.0	30.4	67.9	56.8	130.0	180.0	158.5	101.4
1985	110.6	45.9	58.0	62.7	125.6	180.0	179.6	108.2
1986	141.7	60.5	78.9	69.0	165.0	196.4	186.0	141.0
1987	186.7	55.2	104.5	96.8	212.5	245.2	199.6	154.4
1988	163.2	66.5	85.8	93.2	154.2	241.5	202.9	132.2
1989	155.0	72.8	80.7	85.8	167.7	230.0	204.5	125.6
1990	199.0	64.3	94.5	91.7	216.0	253.8	NA	NA
1991	229.6	82.0	137.0	123.7	251.0	314.2	224.0	123.5
1992	215.6	69.6	81.0	88.3	239.0	310.0	230.4	133.9
1993	183.1	46.7	72.0	87.2	218.9	287.0	205.0	140.8
1994	175.2	44.2	67.0	87.5	217.5	285.0	215.4	181.1
1995	189.2	45.3	73.8	87.5	207.9	285.0	220.5	180.0

NA - Not available.

Source: Fishery Market News Report, Natl. Mar. Fish. Serv.,
408 Atlantic Ave., Boston, MA 02210-2203.

Table 35.--Monthly wholesale prices of selected frozen fish blocks and fillets, F.O.B. East Coast, 1993-95, in cents/lb.

Month	Blocks					Fillets			
	Cod	Minced cod	Alaska pollock		Whiting	Cod (Canada)	Cod (Iceland)	Flounder	Ocean perch
			Imported	Domestic					
1993									
Jan.	207.5	51.0	80.5	102.5	86.0	235.0	310.0	205.0	130.0
Feb.	207.5	41.5	76.5	97.5	84.0	232.5	285.0	202.5	130.0
Mar.	185.0	47.5	74.0	TFQ	84.0	230.0	285.0	202.5	130.0
Apr.	185.0	47.5	71.5	82.5	TFQ	225.0	285.0	202.5	137.5
May	180.0	47.5	71.5	85.0	TFQ	220.0	285.0	202.5	132.5
Jun.	180.0	47.5	71.5	85.0	88.5	212.5	285.0	NQ	147.5
Jul.	180.0	50.0	71.5	85.0	89.5	212.5	285.0	NQ	147.5
Aug.	177.5	47.5	71.5	85.0	88.0	212.5	285.0	NQ	150.0
Sep.	177.5	45.0	71.5	85.0	88.0	212.5	285.0	NQ	145.0
Oct.	172.5	45.0	71.5	85.0	88.0	212.5	285.0	215.0	145.0
Nov.	172.5	45.0	66.5	85.0	88.0	210.0	285.0	NQ	145.0
Dec.	172.5	45.0	66.5	85.0	88.0	212.5	285.0	NQ	150.0
1994									
Jan.	172.5	45.0	66.5	85.0	NQ	220.0	285.0	NQ	155.0
Feb.	172.5	45.0	66.5	81.0	TFQ	220.0	285.0	NQ	160.0
Mar.	172.0	45.0	66.5	81.0	TFQ	212.5	285.0	NQ	TFQ
Apr.	170.0	TFQ	67.5	80.0	TFQ	212.5	285.0	NQ	TFQ
May	170.0	44.0	67.5	80.0	NQ	212.5	285.0	NQ	NQ
Jun.	172.5	44.0	67.5	80.0	NQ	225.0	285.0	220.0	190.0
Jul.	172.5	44.0	67.5	80.0	TFQ	225.0	285.0	TFQ	190.0
Aug.	175.0	44.0	67.5	79.0	87.5	225.0	285.0	215.0	192.5
Sep.	177.5	44.0	66.5	79.0	87.5	217.5	285.0	215.0	185.0
Oct.	177.5	44.0	66.5	81.0	87.5	215.0	285.0	210.0	185.0
Nov.	182.5	43.5	66.5	82.5	87.5	210.0	285.0	215.0	190.0
Dec.	187.5	43.5	67.5	86.5	87.5	215.0	285.0	217.5	182.5
1995									
Jan.	187.5	43.5	67.5	86.5	87.5	215.0	285.0	217.5	192.5
Feb.	187.5	43.5	69.0	87.5	87.5	212.5	285.0	217.5	192.5
Mar.	190.0	43.5	69.0	88.5	NQ	210.0	285.0	217.5	192.5
Apr.	192.5	43.5	71.5	88.5	NQ	210.0	285.0	217.5	182.5
May	192.5	43.5	71.5	92.5	NQ	207.5	285.0	TFQ	177.5
Jun.	190.0	44.0	71.5	93.0	NQ	207.5	285.0	TFQ	177.5
Jul.	190.0	44.0	73.5	95.5	NQ	207.5	285.0	TFQ	177.5
Aug.	190.0	44.0	76.0	101.0	NQ	205.0	285.0	TFQ	172.5
Sep.	187.5	47.5	79.0	107.5	NQ	205.0	285.0	TFQ	177.5
Oct.	187.5	47.5	79.0	107.5	NQ	205.0	285.0	TFQ	172.5
Nov.	187.5	47.5	79.0	107.5	NQ	205.0	285.0	TFQ	172.5
Dec.	187.5	52.0	79.0	81.5	NQ	205.0	285.0	232.5	172.5

Notes: NQ - No quote. TFQ - Too few quotes.

Source: Fishery Market News Report, Natl. Mar. Fish. Serv., 408 Atlantic Ave., Boston, MA 02210-2203.

Table 36.--Monthly Japanese landing market price of selected groundfish by species, 1986-95, in yen/kilogram (weighted average).

Species	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
Flatfish, fresh												
1986	585	692	606	510	438	402	532	498	478	518	550	603
1987	671	721	659	488	440	439	518	492	504	518	543	547
1988	586	695	716	630	523	496	568	497	528	547	546	587
1989	634	712	645	588	505	542	590	486	515	552	613	692
1990	674	704	701	665	497	515	615	629	597	637	687	801
1991	695	840	785	640	548	598	684	699	535	737	752	688
1992	739	799	749	687	567	558	605	584	556	587	600	570
1993	638	746	681	611	487	515	475	651	486	576	512	490
1994	603	592	534	573	585	467	541	542	508	474	454	505
1995	499	510	485	540	478	473	523	511	464	362	415	424
Cod, fresh												
1986	129	174	140	115	90	87	106	97	82	130	155	178
1987	160	144	122	108	74	63	50	110	89	146	182	155
1988	176	112	124	89	90	90	130	114	88	180	223	229
1989	170	155	168	119	105	87	132	129	121	211	204	325
1990	282	230	180	148	123	124	153	113	151	192	242	343
1991	296	279	216	148	124	137	136	128	173	261	398	366
1992	332	316	180	164	128	119	135	134	175	221	366	299
1993	281	285	207	167	118	128	154	215	175	305	319	366
1994	261	272	170	132	98	129	117	115	204	311	288	287
1995	244	185	188	103	64	110	146	146	197	257	401	315
Cod, frozen												
1986	292	--	275	257	213	298	--	327	295	359	358	426
1987	315	305	332	319	317	--	284	340	348	380	334	304
1988	313	274	199	191	215	--	--	224	227	348	--	330
1989	280	300	308	238	236	--	132	202	201	350	384	377
1990	374	427	326	347	411	--	--	373	353	--	320	300
1991	331	290	307	325	312	342	--	332	391	410	456	440
1992	369	324	281	251	264	270	298	322	339	348	315	163
1993	278	148	171	164	206	288	259	148	329	387	260	278
1994	309	258	112	245	264	124	217	258	258	246	264	228
1995	232	182	154	177	196	109	135	184	138	134	259	249
Alaska pollock, fresh												
1986	152	139	91	59	74	70	65	73	76	87	77	60
1987	81	81	45	60	48	43	34	41	40	48	48	39
1988	85	113	69	52	35	40	39	38	33	38	32	58
1989	96	117	67	49	47	43	36	35	31	42	48	70
1990	121	121	76	64	57	58	55	57	50	53	66	94
1991	150	172	168	108	81	87	91	111	89	115	135	146
1992	144	201	132	68	35	33	59	64	51	57	64	74
1993	107	157	141	91	54	56	51	51	37	60	62	72
1994	76	125	118	88	45	46	52	51	44	55	67	74
1995	104	132	131	101	40	38	66	59	40	47	74	72

Table 36.--Continued.

Species	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
Atka mackerel, fresh												
1986	60	93	93	103	149	99	124	73	86	62	49	55
1987	57	44	54	76	67	45	42	41	36	71	42	50
1988	40	41	80	59	86	63	87	90	44	48	37	33
1989	41	37	42	40	47	36	31	55	46	106	53	44
1990	42	54	45	50	42	48	59	61	57	64	79	85
1991	65	93	111	90	101	120	168	143	93	79	80	57
1992	47	36	65	85	88	91	136	95	87	94	84	48
1993	66	41	33	33	24	44	57	56	40	66	46	26
1994	25	28	21	20	28	30	49	50	42	49	35	30
1995	35	31	29	29	37	49	109	98	39	36	27	19
Rockfish, fresh												
1986	1478	1611	1446	1299	1005	1157	1333	1436	1390	1463	1454	1576
1987	1825	1591	1337	957	1118	1282	1466	1518	1393	1420	1318	1427
1988	1703	1378	1395	1375	1309	1431	1573	1366	1275	1256	1419	1628
1989	1760	1493	1670	1583	1513	1765	1935	1835	1588	1682	1830	2056
1990	2058	1975	1919	1896	1803	2049	2316	1961	1643	1948	2017	2231
1991	2328	2054	2074	1937	2035	2145	2553	2328	2003	2320	2513	2630
1992	2992	2653	3281	2204	1951	2174	2383	2307	1786	2177	2808	2613
1993	2847	2987	2452	2480	2053	2004	2050	2140	1783	2010	2445	2633
1994	2687	2861	1944	2363	2205	2433	2230	2118	2069	2075	2323	2778
1995	3214	2725	2360	2545	2142	1993	2234	2189	2149	2373	3179	3119

Source: Monthly Stat. of Agriculture, Forestry, and Fisheries, Stat. and Info. Dept., Ministry of Agriculture, Forestry, and Fishery, Government of Japan. Available from Alaska Fish. Sci. Cen., 7600 Sand Point Way N.E., BIN C15700, Seattle, WA 98115-0070.

Table 37.--Monthly Tokyo wholesale prices of selected products, 1986-95,
in yen/kilogram (weighted average).

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
Flatfish, frozen												
1986	479	473	423	503	563	552	545	496	586	569	603	580
1987	528	502	593	594	580	557	601	496	518	624	499	531
1988	496	503	462	451	442	437	408	424	407	419	396	392
1989	409	357	349	421	343	433	410	457	462	472	480	459
1990	496	433	439	463	509	616	570	578	637	526	592	552
1991	449	512	572	570	520	541	565	573	509	543	482	485
1992	499	486	517	511	530	491	423	433	499	437	460	413
1993	412	386	404	427	431	447	431	406	418	423	407	414
1994	423	426	403	450	460	433	470	394	414	433	422	455
1995	446	435	450	455	427	443	447	464	440	466	475	500
Cod, frozen												
1986	431	434	404	382	371	402	376	395	432	466	436	518
1987	486	384	365	404	398	352	444	433	464	552	557	418
1988	499	515	552	505	482	483	472	525	531	507	495	479
1989	472	451	341	600	529	474	511	608	174	529	506	577
1990	566	635	623	588	601	678	690	748	708	684	620	726
1991	702	681	694	704	737	694	764	771	780	800	721	742
1992	798	741	774	770	764	741	750	726	734	665	658	647
1993	643	663	670	671	666	707	614	602	604	587	639	644
1994	610	612	635	648	625	614	665	700	633	652	656	656
1995	644	646	628	649	623	583	571	605	614	527	458	567
Surimi												
1992	683	624	591	541	576	555	504	438	443	438	445	415
1993	360	340	347	348	364	350	367	326	332	295	295	309
1994	322	315	309	302	311	320	309	316	310	319	333	350
1995	340	337	332	335	338	341	356	343	368	353	348	335

Note: Beginning in 1988, prices are for six large cities wholesale market.

Source: Monthly Stat. of Agriculture, Forestry, and Fisheries, Stat. and Info. Dep., Ministry of Agriculture, Forestry, and Fisheries, Government of Japan. Available from Alaska Fish. Sci. Cen., 7600 Sand Point Way N.E., BIN C15700, Seattle, WA 98115-0070.

Table 38.--Annual exports of groundfish from Alaska, Washington, and Oregon customs districts, quantity (1,000 lb), value (\$1,000), and average price (\$/lb), 1990-95.

Product	Quantity	Value	Average price
Whole or dressed			
Cod			
1990	160,584	\$115,938	\$0.72
1991	177,223	144,389	.81
1992	124,986	94,527	.76
1993	73,117	55,013	.75
1994	85,876	76,044	.89
1995	83,246	83,675	1.01
Flounders and soles			
1990	51,269	36,082	.70
1991	159,230	104,172	.65
1992	114,803	56,407	.49
1993	133,323	62,457	.47
1994	170,456	103,043	.60
1995	171,088	102,704	.60
Pollock			
1990	3,313	2,447	.74
1991	626	459	.73
1992	2,346	1,293	.55
1993	2,145	999	.47
1994	2,995	1,212	.40
1995	5,654	2,741	.48
Sablefish			
1990	42,149	70,997	1.68
1991	39,981	95,180	2.38
1992	32,689	77,037	2.36
1993	44,106	88,490	2.01
1994	33,514	87,165	2.60
1995	35,535	95,736	2.69
Total whole or dressed			
1990	445,119	395,324	.89
1991	485,147	447,028	.92
1992	492,941	403,945	.82
1993	430,290	338,853	.79
1994	421,966	363,219	.86
1995	434,220	388,178	.89
Filletts and steaks			
Cod			
1990	2,562	3,007	1.17
1991	2,215	2,607	1.18
1992	3,167	3,156	1.00
1993	1,698	3,106	1.83
1994	3,070	3,310	1.08
1995	1,470	2,199	1.50

Table 38.--Continued.

Product	Quantity	Value	Average price
Halibut			
1990	2,032	\$ 4,490	\$2.21
1991	514	1,233	2.40
1992	1,163	2,106	1.81
1993	1,564	3,133	2.00
1994	749	2,600	3.47
1995	582	1,716	2.95
Other			
1990	14,745	15,340	1.04
1991	25,689	27,491	1.07
1992	14,109	16,519	1.17
1993	13,738	18,695	1.36
1994	14,730	17,305	1.17
1995	16,529	23,318	1.41
Total fillets and steaks			
1990	19,338	22,837	1.18
1991	28,223	31,331	1.11
1992	18,439	21,781	1.18
1993	17,000	24,934	1.47
1994	18,549	23,216	1.25
1995	18,581	27,233	1.46
Other			
Fish roe, excluding herring and salmon			
1990	37,457	104,563	2.79
1991	50,566	191,793	3.79
1992	46,586	202,371	4.34
1993	32,661	124,787	3.82
1994	27,782	109,140	3.93
1995	39,826	164,328	4.13
Fish, dried, salted, smoked			
1990	12,236	16,788	1.37
1991	14,986	22,323	1.49
1992	1,676	3,287	1.96
1993	1,494	2,314	1.55
1994	2,282	3,074	1.35
1995	3,124	3,427	1.10
Fish, other			
1990	340,374	257,200	.76
1991	287,521	381,970	1.33
1992	331,303	480,799	1.45
1993	372,940	342,588	.92
1994	361,525	363,443	1.01
1995	337,956	401,503	1.19

Source: U.S. Dep. Commer., Bur. of the Census; and Natl. Mar. Fish. Serv. data base from Alaska Fish. Sci. Cent., 7600 Sand Point Way N.E., BIN C15700, Seattle, WA 98115-0070.

Table 39.--Exports of groundfish from Alaska, Washington, and Oregon customs, districts to major countries, quantity (1,000 lb), percent change from 1994 to 1995, and average price (\$/lb), 1994-95.

Product/Country	Quantity		% Change 94 to 95	Average price	
	1994	1995		1994	1995
Whole or dressed					
Cod					
Total	85,876	83,246	-3.1	\$0.89	\$1.01
Japan	72,478	65,255	-10.0	.87	1.01
Rep. of Korea	5,295	5,694	7.5	1.01	1.17
Flounders and soles					
Total	170,456	171,088	0.4	.60	.60
Japan	86,601	61,434	-29.1	.83	.95
Peo. Rep. China	32,459	60,163	85.4	.39	.43
Rep. of Korea	46,147	46,168	.0	.33	.35
Sablefish					
Total	33,514	35,535	6.0	2.60	2.69
Japan	32,948	34,349	4.3	2.59	2.71
Total	421,966	434,220	0.5	.86	.89
Japan	281,966	262,301	-7.0	1.01	1.13
Rep. of Korea	81,769	83,863	2.6	.42	.42
Canada	10,785	11,529	6.9	1.67	1.42
Filletts					
Total	18,549	18,581	0.2	1.25	1.47
Japan	4,535	13,212	191.4	1.28	1.38
Canada	5,064	3,428	-12.4	1.84	1.95
Roe					
Total	27,782	39,826	43.4	3.92	4.13
Japan	23,307	35,556	52.6	4.01	4.27
Rep. of Korea	3,898	2,614	-33.0	3.11	3.28
Salted, dried, or smoked					
Total	2,282	3,124	36.9	1.35	1.10
Surimi					
Total	307,410	294,806	-4.1	1.02	1.18
Japan	263,747	259,328	-1.7	1.04	1.20
Rep. of Korea	28,459	23,708	-16.7	.90	1.07

Source: U.S. Dep. Commer., Bur. of the Census; and Natl. Mar. Fish. Serv. database from Alaska Fish. Sci. Cent., 7600 Sand Point Way N.E., BIN C15700, Seattle, WA 98115-0070.

Table 40.--U.S. imports of groundfish fillets, steaks, and blocks, 1976-95, quantity in million lbs, product weight and value in million dollars.

Year	Fillets and steaks		Blocks		Total	
	Quantity	Value	Quantity	Value	Quantity	Value
1976	337	\$273	379	\$211	716	\$484
1977	321	305	385	292	706	597
1978	333	341	406	325	739	666
1979	340	385	408	337	748	722
1980	297	341	336	289	633	630
1981	346	415	344	301	690	716
1982	371	458	319	274	690	732
1983	355	449	384	339	739	788
1984	373	459	316	263	689	722
1985	388	500	334	275	722	775
1986	366	542	364	380	730	922
1987	408	759	403	539	812	1,298
1988	323	568	303	382	626	950
1989	333	578	282	325	616	903
1990	262	482	264	373	526	856
1991	255	526	290	444	545	970
1992	221	437	229	304	450	741
1993	236	452	212	219	447	671
1994	229	433	200	184	428	617
1995	232	437	210	213	442	650

Source: U.S. Dep. Commer., Bur. of the Census, Washington, D.C. 20233; and Fisheries of the United States, Natl. Mar. Fish. Serv., Fish. Stat. Div., 1315 East-West Highway, Silver Spring, MD 20910, various issues.

Table 41.--U.S. per capita consumption of fish and shellfish, 1970-95, population in millions and consumption in lbs, edible weight.

Year	Total civilian population	Per capita consumption			
		Fresh and frozen	Canned	Cured	Total
1970	201.9	6.9	4.5	.4	11.8
1971	204.9	6.7	4.3	.5	11.5
1972	207.5	7.1	4.9	.5	12.5
1973	209.6	7.4	5.0	.4	12.8
1974	211.6	6.9	4.7	.5	12.1
1975	213.8	7.5	4.3	.4	12.2
1976	215.9	8.2	4.2	.5	12.9
1977	218.1	7.7	4.6	.4	12.7
1978	220.5	8.1	5.0	.3	13.4
1979	223.0	7.8	4.8	.4	13.0
1980	225.6	7.9	4.3	.3	12.5
1981	227.8	7.8	4.6	.3	12.7
1982	230.0	7.9	4.3	.3	12.5
1983	232.1	8.4	4.7	.3	13.4
1984	234.1	9.0	4.9	.3	14.2
1985	236.2	9.8	5.0	.3	15.1
1986	238.4	9.8	5.4	.3	15.5
1987	240.6	10.7	5.2	.3	16.2
1988	242.8	10.0	4.9	.3	15.2
1989	245.1	10.2	5.1	.3	15.6
1990	247.8	9.6	5.1	.3	15.0
1991	250.5	9.7	4.9	.3	14.9
1992	253.5	9.9	4.6	.3	14.8
1993	256.4	10.2	4.5	.3	15.0
1994	259.2	10.4	4.5	.3	15.2
1995	261.4	10.0	4.7	.3	15.0

Note: Per capita consumption represents pounds of edible meat consumed from domestically-caught and imported fish and shellfish adjusted for beginning and ending inventories, and exports, divided by the civilian population of the United States as of July 1 of each year. Population estimates for 1980-91 were revised to reflect changes from the 1990 decennial population enumeration. Changes did not significantly alter pounds per capita.

Source: Fisheries of the United States, 1995. Natl. Mar. Fish. Serv., 1315 East-West Highway, Silver Spring, MD 20910, CFS No. 9500, July 1996.

Table 42.--U.S. consumption of all fillets and steaks, and fish sticks and portions, total in 1,000 lb and per capita in pounds, product weight, 1980-95.

Year	Fillets and steaks ¹		Fish sticks and portions	
	Total	Per capita ²	Total	Per capita ²
1980	535,361	2.35	442,892	1.95
1981	555,378	2.42	414,149	1.80
1982	573,436	2.47	400,455	1.72
1983	637,900	2.72	413,858	1.77
1984	703,075	2.98	430,895	1.82
1985	768,128	3.22	419,547	1.76
1986	787,106	3.27	431,511	1.79
1987	849,724	3.50	419,250	1.73
1988	767,938	3.13	365,415	1.49
1989	757,958	3.06	376,384	1.52
1990	892,125	3.57	315,161	1.26
1991	806,288	3.19	256,049	1.01
1992	810,359	3.18	264,417	1.04
1993	786,709	3.05	278,575	1.08
1994	848,635	3.26	260,863	1.00
1995 p	794,921	3.03	332,828	1.27

¹Series revised in 1993 to reflect deduction of fillet production used to produce blocks, exports of foreign fillets and steaks, and changes in population estimates from 1990 decennial population enumeration.

²Total divided by total U.S. population.

p - preliminary.

Source: Computed from data from U.S. Dep. of Commerce, Bur. of the Census; and Fisheries of the United States, Natl. Mar. Fish. Serv., Fish. Stat. Div., 1315 East-West Highway, Silver Spring, MD 20910, various issues.

Table 43.--Annual U.S. economic indicators: Selected producer and consumer price indexes, 1976-95.

Year	Producer price index (Index 1982=100)					Consumer price index (Index 1982-84=100)			
	All items	Meat	Poultry	Fish	Petrl. products	All items	Meat	Poultry	Fish
1976	61.1	69.3	93.0	64.5	36.3	56.9	66.4	76.4	60.2
1977	64.9	68.1	96.9	69.7	40.5	60.6	64.9	76.9	66.6
1978	69.9	83.6	108.5	74.1	42.2	65.2	77.0	84.9	73.0
1979	78.7	93.3	105.5	90.9	58.4	72.6	90.1	89.1	80.1
1980	89.8	94.1	108.1	87.8	88.6	82.4	92.7	93.7	87.5
1981	98.0	95.4	108.1	89.5	105.9	90.9	96.0	97.5	94.8
1982	100.0	100.0	100.0	100.0	100.0	96.5	100.7	95.8	98.2
1983	101.3	94.3	103.6	105.4	89.9	99.6	99.5	97.0	99.3
1984	103.7	94.5	115.2	112.7	87.4	103.9	99.8	107.3	102.5
1985	103.2	90.8	110.5	116.5	83.2	107.6	98.9	106.2	107.5
1986	100.2	93.9	116.2	125.6	53.2	109.6	102.0	114.2	117.4
1987	102.8	100.3	103.4	141.9	56.8	113.6	109.6	112.6	129.9
1988	106.9	99.6	111.5	157.5	53.8	119.4	113.0	121.8	139.9
1989	112.2	104.7	120.4	149.2	61.2	124.0	116.7	132.6	143.6
1990	116.2	116.9	113.6	153.7	74.8	130.6	128.4	132.5	146.7
1991	116.5	113.3	109.8	155.7	67.0	136.2	133.1	131.5	148.3
1992	117.1	106.5	109.2	155.6	64.6	140.3	130.6	131.5	151.8
1993	118.8	110.0	111.7	154.0	62.1	144.5	134.6	136.9	156.6
1994	120.4	104.4	114.7	161.4	59.2	148.2	135.4	141.5	163.7
1995	124.7	102.7	114.2	169.8	60.8	152.4	135.5	143.4	171.7

Source: Producer prices and price indexes, and Consumer price indexes, U.S. Dep. of Labor, Bur. of Labor Statistics.

Table 44.--Monthly U.S. economic indicators: Selected producer and consumer price indexes, 1993-95.

Month	Producer price index (Index 1982=100)					Consumer price index (Index 1982-84=100)			
	All items	Meat	Poultry	Fish	Petrl. products	All items	Meat	Poultry	Fish
1993									
Jan.	118.0	107.9	108.3	146.7	61.5	142.6	132.3	134.6	157.2
Feb.	118.2	108.5	108.5	149.8	62.4	143.1	132.1	133.1	157.5
Mar.	118.7	110.6	109.4	168.6	64.0	143.6	133.1	135.7	157.8
Apr.	119.2	113.0	110.0	160.6	65.3	144.0	133.8	135.2	159.7
May	119.7	113.9	111.4	159.0	66.7	144.2	134.7	136.6	154.7
Jun.	119.6	113.4	111.4	156.2	64.6	144.4	134.9	136.5	154.8
Jul.	119.3	111.2	110.1	147.2	61.7	144.4	135.5	136.0	153.2
Aug.	118.8	109.9	112.9	146.2	60.3	144.8	135.6	137.5	154.1
Sep.	118.7	110.2	115.3	147.9	60.9	145.1	135.5	138.0	155.4
Oct.	119.1	108.1	115.9	155.1	63.9	145.7	135.9	139.2	157.4
Nov.	118.9	107.4	113.7	154.6	60.6	145.8	136.3	139.7	158.9
Dec.	118.4	106.3	113.0	156.2	53.0	145.8	135.9	141.1	158.7
1994									
Jan.	119.0	106.1	112.9	171.7	52.7	146.2	136.1	140.5	163.2
Feb.	119.2	108.4	112.9	155.1	56.4	146.7	136.0	140.4	160.9
Mar.	119.7	109.9	116.3	162.1	56.1	147.2	136.4	140.1	161.8
Apr.	119.8	109.4	117.2	159.2	56.9	147.2	136.6	140.9	163.7
May	119.9	106.6	116.9	158.1	58.2	147.5	136.2	141.8	161.6
Jun.	120.4	103.5	117.1	160.1	59.2	148.0	135.4	143.6	162.7
Jul.	120.6	101.2	116.8	159.1	62.1	148.4	134.7	144.1	163.2
Aug.	121.2	104.8	115.2	160.7	66.0	149.0	135.1	141.7	163.6
Sep.	120.9	102.2	115.9	162.2	62.8	149.4	135.0	143.3	164.9
Oct.	120.9	100.5	114.9	161.3	60.0	149.5	135.0	141.5	164.8
Nov.	121.5	100.5	111.0	165.5	61.9	149.7	134.6	140.2	167.0
Dec.	121.8	99.9	109.1	162.2	59.2	149.7	133.7	140.4	166.9
1995									
Jan.	122.6	102.8	109.8	170.2	57.2	150.3	134.9	140.2	169.0
Feb.	123.5	104.3	110.6	175.2	58.4	150.9	134.9	141.4	170.4
Mar.	123.7	104.8	109.8	175.1	58.2	151.4	135.5	143.3	171.2
Apr.	124.6	100.7	109.7	179.6	63.6	151.9	134.9	134.9	171.6
May	125.0	100.1	109.3	167.1	67.0	152.2	134.7	141.6	171.9
Jun.	125.3	100.9	110.9	164.0	65.9	152.5	134.0	142.9	172.1
Jul.	125.3	103.9	113.8	168.7	62.0	152.5	134.2	142.5	170.4
Aug.	125.0	103.0	117.2	170.9	60.9	152.9	135.1	142.8	170.9
Sep.	125.2	102.1	121.7	166.3	60.7	153.2	135.5	145.9	173.5
Oct.	125.0	103.3	119.5	168.7	58.2	153.7	137.1	146.1	173.8
Nov.	125.3	103.0	119.5	166.1	57.4	153.6	137.7	145.8	173.3
Dec.	125.5	103.2	118.5	165.1	59.8	153.5	137.3	146.0	172.3

Source: Producer prices and price indexes, and Consumer price indexes, U.S. Dep. of Labor, Bur. of Labor Statistics.

Table 45.--Annual foreign exchange rates for selected countries, 1976-95,
in national currency units per U.S. dollar.

Year	Canada (dollar)	Denmark (kroner)	Japan (yen)	ROK (won)	New Zeal. (dollar)	Iceland (kronur)	Norway (kroner)	U.K. (pound)
1976	0.9860	6.0450	296.55	484.00	1.0036	1.822	5.4565	0.5536
1977	1.0635	6.0032	268.51	484.00	1.0301	1.989	5.3235	.5729
1978	1.1407	5.5146	210.44	484.00	.9636	2.711	5.2423	.5210
1979	1.1714	5.2610	219.14	484.00	.9776	3.526	5.0641	.4713
1980	1.1692	5.6359	226.74	607.43	1.0265	4.798	4.9392	.4299
1981	1.1989	7.1234	220.54	681.03	1.4194	7.224	5.7395	.4931
1982	1.2337	8.3324	249.08	731.08	1.3300	12.352	6.4540	.5713
1983	1.2324	9.1450	237.51	775.75	1.4952	24.843	7.2964	.6592
1984	1.2951	10.3566	237.52	805.98	1.7286	31.694	8.1615	.7483
1985	1.3655	10.5964	238.54	870.02	2.0064	41.508	8.5970	.7714
1986	1.3895	8.0910	168.52	881.45	1.9088	41.104	7.3947	.6971
1987	1.3260	6.8400	144.64	822.57	1.6886	38.677	6.7375	.6102
1988	1.2307	6.7320	128.15	731.47	1.5244	43.014	6.5170	.5614
1989	1.1840	7.3100	137.96	671.46	1.6708	57.042	6.9045	.6099
1990	1.1668	6.1890	144.79	707.76	1.6750	58.284	6.2597	.5603
1991	1.1457	6.3960	134.71	733.35	1.7265	58.996	6.4829	.5652
1992	1.2087	6.0360	126.65	780.65	1.8580	57.546	6.2145	.5664
1993	1.2901	6.4840	111.20	802.67	1.8494	67.603	7.0941	.6658
1994	1.3656	6.3610	102.21	803.44	1.6844	69.944	7.0576	.6529
1995	1.3724	5.6020	94.06	771.27	1.5235	64.692	6.3352	.6335

ROK - Republic of Korea. U.K. - United Kingdom.

Source: Intl. Financial Statistics, Intl. Mon. Fund, Washington, D.C.

Table 46.--Monthly foreign exchange rates for selected countries, 1993-95, in national currency units per U.S. dollar.

Month	Canada (dollar)	Denmark (kroner)	Japan (yen)	ROK (won)	New Zeal. (dollar)	Iceland (kronur)	Norway (kroner)	U.K. (pound)
1993								
Jan.	1.278	6.24	125.0	792.0	1.949	63.79	6.88	0.653
Feb.	1.260	6.30	121.0	796.6	1.939	64.87	6.98	.696
Mar.	1.247	6.33	117.1	793.2	1.887	64.99	7.00	.685
Apr.	1.262	6.13	112.4	795.8	1.853	63.14	6.76	.645
May	1.270	6.18	110.4	800.0	1.842	63.22	6.79	.646
Jun.	1.279	6.23	107.4	802.7	1.849	65.13	6.98	.612
Jul.	1.282	6.64	107.7	806.2	1.822	71.71	7.31	.668
Aug.	1.309	6.92	103.7	810.2	1.809	71.51	7.36	.670
Sep.	1.321	6.64	105.3	808.6	1.813	69.36	7.08	.656
Oct.	1.326	6.63	106.9	810.2	1.810	69.94	7.16	.665
Nov.	1.318	6.77	107.8	807.1	1.826	71.64	7.39	.675
Dec.	1.331	6.71	109.7	809.4	1.800	71.95	7.42	.671
1994								
Jan.	1.317	6.77	111.5	810.5	1.777	72.97	7.48	.670
Feb.	1.342	6.77	106.2	806.6	1.741	72.96	7.49	.676
Mar.	1.364	6.32	105.1	807.7	1.748	72.05	7.35	.671
Apr.	1.382	6.67	103.5	808.5	1.756	72.10	7.36	.674
May	1.381	6.49	103.7	806.6	1.713	70.86	7.19	.665
Jun.	1.384	6.39	102.7	806.6	1.691	70.10	7.08	.656
Jul.	1.382	6.17	98.5	805.1	1.666	68.43	6.87	.647
Aug.	1.378	6.19	99.8	803.4	1.662	68.53	6.86	.648
Sep.	1.354	6.11	98.8	800.7	1.658	67.91	6.80	.640
Oct.	1.350	5.95	98.4	798.8	1.642	67.10	6.62	.623
Nov.	1.365	6.02	98.0	796.3	1.612	67.56	6.73	.629
Dec.	1.388	6.16	100.1	791.9	1.570	68.77	6.86	.641
1995								
Jan.	1.413	6.03	99.8	790.5	1.560	67.85	6.70	.635
Feb.	1.400	5.93	98.2	790.9	1.575	66.48	6.59	.636
Mar.	1.407	5.63	90.8	778.4	1.548	64.11	6.29	.625
Apr.	1.376	5.43	83.7	761.4	1.498	62.94	6.19	.622
May	1.361	5.50	85.1	761.4	1.497	63.76	6.29	.630
Jun.	1.377	5.47	84.5	761.0	1.493	63.22	6.24	.627
Jul.	1.361	5.41	87.2	757.0	1.483	92.91	6.17	.627
Aug.	1.355	5.60	94.6	768.0	1.520	64.90	6.34	.637
Sep.	1.351	5.67	100.5	772.4	1.526	65.61	6.40	.642
Oct.	1.346	5.49	100.6	767.4	1.517	64.63	6.24	.633
Nov.	1.353	5.49	101.9	769.4	1.532	64.57	6.25	.639
Dec.	1.370	5.58	101.9	771.1	1.536	65.32	6.35	.650

ROK - Republic of Korea. U.K. - United Kingdom.

Source: Intl. Financial Statistics, Intl. Mon. Fund, Washington, D-C., and Seattle Post-Intelligencer, Seattle, WA.

Table 47.--Monthly U.S. cold storage holdings of selected groundfish blocks, 1993-95, in 1,000 lb (end of month).

Month	Cod	Flounder	Alaska pollock	Pollock, other	Whiting	Minced	Total*
1993							
Jan.	11,862	1,253	13,024	6,367	3,655	12,385	54,990
Feb.	9,709	1,169	11,738	6,957	3,396	9,590	47,220
Mar.	6,722	944	10,670	9,089	1,934	10,071	43,469
Apr.	4,810	823	16,186	2,821	1,875	10,374	39,718
May	5,367	769	22,052	4,627	1,584	10,753	47,669
Jun.	5,860	881	17,536	5,826	1,352	11,120	45,224
Jul.	7,749	926	18,141	4,498	1,476	12,344	48,713
Aug.	7,870	790	13,517	5,537	1,528	11,053	44,371
Sep.	7,370	602	12,225	6,567	1,206	10,858	43,867
Oct.	7,944	908	14,373	5,199	2,001	9,322	45,245
Nov.	6,418	838	12,263	4,335	1,115	8,175	38,874
Dec.	4,639	938	10,454	5,539	1,335	4,728	34,579
1994							
Jan.	3,529	859	11,126	3,258	594	6,681	31,765
Feb.	4,029	761	10,145	3,174	746	5,661	29,289
Mar.	3,444	562	9,663	4,051	553	6,875	29,544
Apr.	3,599	637	12,460	3,846	743	7,974	33,113
May	3,706	747	17,771	2,923	715	8,327	37,778
Jun.	5,086	645	18,899	2,442	1,377	12,801	44,640
Jul.	5,197	310	13,616	3,602	1,012	13,907	40,437
Aug.	4,924	553	16,459	3,234	719	13,129	43,576
Sep.	3,549	560	11,497	2,273	946	13,728	36,231
Oct.	3,678	561	10,234	3,068	1,210	14,737	38,679
Nov.	4,441	526	8,762	3,664	977	12,453	36,457
Dec.	4,635	423	11,449	4,686	710	11,805	40,396
1995							
Jan.	3,357	513	8,364	6,021	485	10,369	35,486
Feb.	2,948	459	12,569	4,490	833	7,568	36,300
Mar.	3,165	520	12,864	1,875	536	7,711	33,122
Apr.	3,463	548	11,921	4,163	615	4,401	32,157
May	4,650	515	12,129	4,384	599	4,920	32,854
Jun.	4,494	829	9,998	4,955	634	8,898	35,505
Jul.	4,487	755	8,499	4,019	585	10,063	33,815
Aug.	8,151	742	6,873	2,614	312	7,340	30,651
Sep.	5,547	881	15,536	2,979	370	5,087	35,508
Oct.	5,468	824	11,746	4,454	401	4,751	32,313
Nov.	5,800	975	8,467	6,510	200	5,047	31,787
Dec.	6,382	1,490	10,881	8,167	442	3,464	36,802

Notes: * Total includes other species not listed.

Source: Natl. Mar. Fish. Serv., Fish. Stat. Div., Silver Spring, MD 20910.

Table 48.--Monthly U.S. cold storage holdings of selected groundfish fillets, 1993-95, in 1,000 lb (end of month).

Month	Cod	Flounder	Ocean perch	Alaska pollock	Pollock, other	Whiting	Total*
1993							
Jan.	16,409	9,170	2,184	16,023	5,184	3,183	55,102
Feb.	15,273	8,258	2,867	15,989	3,821	2,954	51,747
Mar.	20,447	8,001	1,567	19,733	3,959	2,467	57,634
Apr.	27,237	7,049	1,228	22,462	3,582	2,077	65,126
May	27,730	6,988	1,335	20,996	3,361	1,863	64,139
Jun.	24,526	5,780	683	19,165	2,519	1,490	55,939
Jul.	29,956	5,930	1,358	18,814	2,604	2,460	63,538
Aug.	29,657	6,645	1,705	19,000	3,356	2,805	65,443
Sep.	26,798	5,495	1,292	24,457	2,938	3,222	65,695
Oct.	27,085	6,543	1,586	32,082	3,204	6,154	78,890
Nov.	28,613	8,346	1,659	35,523	3,359	5,187	81,270
Dec.	31,306	7,815	1,988	25,285	3,522	5,570	77,127
1994							
Jan.	28,874	4,937	1,899	20,454	3,148	4,553	66,339
Feb.	26,193	3,958	1,451	23,974	2,195	3,694	63,180
Mar.	23,901	2,929	1,159	26,968	2,258	2,918	62,396
Apr.	25,969	3,688	1,239	27,602	2,131	2,962	65,892
May	26,935	3,962	1,025	25,058	2,449	2,027	69,730
Jun.	25,392	4,576	1,768	21,991	3,072	2,488	67,686
Jul.	25,125	3,571	2,813	20,343	4,214	2,030	63,029
Aug.	21,321	3,419	2,902	15,867	3,892	2,246	54,003
Sep.	19,357	4,052	2,166	15,162	3,661	2,187	49,533
Oct.	17,922	3,342	2,897	28,681	3,577	2,626	62,137
Nov.	18,437	3,850	3,473	24,899	3,618	2,561	59,988
Dec.	17,128	2,448	3,903	16,238	3,438	4,085	51,522
1995							
Jan.	16,250	2,345	3,343	12,264	2,758	3,139	44,690
Feb.	14,568	2,400	3,091	13,171	2,042	5,890	45,598
Mar.	19,685	2,683	2,423	18,387	1,166	4,380	52,320
Apr.	23,064	3,121	2,121	17,323	1,346	3,141	53,609
May	25,464	3,564	2,005	13,289	2,266	2,240	52,593
Jun.	22,375	3,468	2,582	10,347	2,258	3,160	48,153
Jul.	21,043	3,293	3,318	8,438	2,260	2,501	45,030
Aug.	15,515	3,779	3,603	5,797	2,874	3,025	38,909
Sep.	20,023	5,292	4,723	13,722	2,802	3,482	55,502
Oct.	19,038	4,515	4,702	18,342	2,991	4,441	60,103
Nov.	18,828	4,736	5,263	13,960	3,000	4,973	56,330
Dec.	18,526	4,541	5,938	11,118	2,772	3,519	52,894

Notes: * Total includes other species not listed.

Source: Natl. Mar. Fish. Serv., Fish. Stat. Div., Silver Spring, MD 20910.

Table 49.--Monthly U.S. West Coast cold storage holdings of selected groundfish products, 1993-95, in 1,000 lb (end of month).

Month	Alaska pollock blocks	Fillets			Sablefish	Surimi	Analog products
		Cod	Flounder	Pollock			
1993							
Jan.	1,094	3,292	5,024	13,549	1,304	24,173	6,694
Feb.	1,438	3,396	4,439	14,165	862	24,220	3,128
Mar.	2,502	8,978	4,583	19,103	466	31,186	3,313
Apr.	3,723	13,581	3,786	21,119	370	27,160	4,767
May	3,641	13,642	4,279	19,295	1,733	30,484	4,851
Jun.	3,585	12,250	4,091	17,450	1,267	25,262	3,241
Jul.	2,332	11,798	3,485	17,433	1,081	20,602	3,389
Aug.	729	10,078	3,542	17,484	1,885	20,060	4,009
Sep.	470	8,396	3,294	22,447	1,951	20,396	4,264
Oct.	3,074	7,312	2,982	30,417	1,655	24,348	4,356
Nov.	2,148	8,992	4,817	31,364	1,027	22,915	4,506
Dec.	1,206	9,717	4,645	23,445	753	19,825	3,304
1994							
Jan.	853	6,799	1,913	20,222	761	16,808	3,940
Feb.	789	6,011	1,566	21,272	148	19,157	4,699
Mar.	2,729	5,053	1,194	25,890	134	24,338	5,062
Apr.	3,341	6,830	1,157	26,947	75	23,500	6,253
May	2,794	6,220	1,469	22,187	2,401	23,651	6,403
Jun.	2,744	5,214	1,292	20,048	2,340	18,151	4,997
Jul.	2,749	4,568	1,304	17,933	839	16,560	4,086
Aug.	2,621	3,561	1,419	12,950	586	13,185	3,581
Sep.	1,870	3,585	1,222	13,736	1,816	16,575	4,044
Oct.	961	3,068	1,435	26,981	1,407	23,056	3,700
Nov.	749	2,521	1,120	23,412	1,301	21,245	4,364
Dec.	582	2,131	695	15,430	1,214	16,943	4,340
1995							
Jan.	437	2,066	595	11,261	327	12,797	4,943
Feb.	5,605	2,079	548	11,969	198	18,563	4,640
Mar.	6,627	7,312	818	16,746	219	22,813	4,352
Apr.	4,312	9,573	941	15,932	206	19,922	4,508
May	3,677	11,545	1,789	11,873	784	16,431	4,623
Jun.	3,095	9,987	1,469	9,563	1,441	14,199	4,427
Jul.	2,390	9,355	1,801	7,690	1,758	15,659	4,528
Aug.	901	8,196	2,587	5,430	2,878	19,302	5,259
Sep.	8,898	7,869	2,986	11,897	3,113	11,098	5,531
Oct.	3,952	7,204	2,258	17,086	3,354	14,768	5,157
Nov.	3,914	6,150	2,376	13,480	1,864	21,849	5,312
Dec.	3,256	4,978	1,817	10,155	1,144	19,626	4,463

Notes: Includes domestic and foreign products,

Source: Natl. Mar. Fish. Serv., Fish. Stat. Div., Silver Spring, MD 20910.

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