



NOAA Technical Memorandum NMFS-AFSC-85

Economic Status of the Groundfish Fisheries off Alaska, 1996

by
R. K. Kinoshita, A. Grieg, and J. M. Terry

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Marine Fisheries Service
Alaska Fisheries Science Center

February 1998

NOAA Technical Memorandum NMFS

The National Marine Fisheries Service's Alaska Fisheries Science Center uses the NOAA Technical Memorandum series to issue informal scientific and technical publications when complete formal review and editorial processing are not appropriate or feasible. Documents within this series reflect sound professional work and may be referenced in the formal scientific and technical literature.

The NMFS-AFSC Technical Memorandum series of the Alaska Fisheries Science Center continues the NMFS-F/NWC series established in 1970 by the Northwest Fisheries Center. The new NMFS-NWFSC series will be used by the Northwest Fisheries Science Center.

This document should be cited as follows:

Kinoshita, R. K., A. Grieg, and J. M. Terry. 1998. Economic status of the groundfish fisheries off Alaska, 1996. U.S. Dep. Commer., NOAA Tech. Memo. NMFS-AFSC-85,91 p.

Reference in this document to trade names does not imply endorsement by the National Marine Fisheries Service, NOAA.



NOAA Technical Memorandum NMFS-AFSC-85

Economic Status of the Groundfish Fisheries off Alaska, 1996

by
R. K. Kinoshita, A. Grieg, and J. M. Terry

Socioeconomic Task
Resource Ecology and Fisheries Management Division
Alaska Fisheries Science Center
7600 Sand Point Way N.E., BIN C-15700
Seattle, WA 98115-0070

U.S. DEPARTMENT OF COMMERCE

William M. Daley, Secretary

National Oceanic and Atmospheric Administration

D. James Baker, Under Secretary and Administrator

National Marine Fisheries Service

Rolland A. Schmitt, Assistant Administrator for Fisheries

February 1998



This document is available to the public through:

National Technical Information Service
U.S. Department of Commerce
5285 Port Royal Road
Springfield, VA 22161

www.ntis.gov

Notice to Users of this Document

This document is being made available in .PDF format for the convenience of users; however, the accuracy and correctness of the document can only be certified as was presented in the original hard copy format.

ABSTRACT

This report presents data which summarize various aspects of the economic performance of the domestic groundfish fishery off Alaska. Generally, data are presented for 1992 through 1996. Limited catch, ex-vessel value, and export value data are included from the early or mid-1980s through 1996 to depict the rapid development of the domestic groundfish fishery in the 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 to 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 1992-96, more extensive bycatch data, and more detailed data on the size and level of activity of the groundfish fleet.

CONTENTS

	Page
Abstract	iii
List of Figures	vii
List of Tables	viii
Introduction	1
Overview	2
Domestic Fishery	5
Markets	8
Citations	11

List of Figures

1. Groundfish catch in the commercial fisheries off Alaska by species, 1988-96.
2. Ex-vessel value of the domestic fish and shellfish catch off Alaska, 1988-96.
3. Pacific Northwest and Alaska exports of edible fishery products by major product groups, 1988-96.
4. Ex-vessel value of the domestic groundfish catch off Alaska by species, 1988-96.
5. Number of vessels that landed more than 25 tons of groundfish in the domestic fishery off Alaska by gear type, 1992-96

List of Tables

1. Ex-vessel value of the catch in the commercial fisheries off Alaska by species group, 1982-96.
2. Value of Pacific Northwest and Alaska exports of edible fishery products or product groups, 1982-96.
3. Groundfish catch in the commercial fisheries off Alaska by area and species, 1987-96.
4. Retained, discarded, and total groundfish catch off Alaska by area, gear, and species, 1992-96.
5. Discards and discard rate of the groundfish catch by area, gear, and processing mode, 1992-96.
6. Gulf of Alaska groundfish catch by species, gear, and target fishery, 1995-96.
7. Bering Sea and Aleutian Islands groundfish catch by species, gear, and target fishery, 1995-96.
8. Gulf of Alaska groundfish discards by species, gear, and target fishery, 1995-96.
9. Bering Sea and Aleutian Islands groundfish discards by species, gear, and target fishery, 1995-96.
10. Gulf of Alaska groundfish discard rate by species, gear, and target fishery, 1995-96.
11. Bering Sea and Aleutian Islands groundfish discard rate by species, gear, and target fishery, 1995-96.

12. Prohibited species bycatch in the Gulf of Alaska by species, gear, and groundfish target fishery, 1995-96.
13. Prohibited species bycatch in the Bering Sea and Aleutian Islands by species, gear, and groundfish target fishery, 1995-96.
14. Prohibited species bycatch rates in the Gulf of Alaska by species, gear, and groundfish target fishery, 1995-96.
15. Prohibited species bycatch rates in the Bering Sea and Aleutian Islands by species, gear, and groundfish target fishery, 1995-96.
16. Groundfish catch off Alaska by area, gear, and species, 1992-96.
17. Groundfish catch off Alaska by area, processor category, and species, 1992-96.
18. Groundfish catch off Alaska by area, residency, and species, 1992-96.
19. Ex-vessel value of the groundfish catch off Alaska by area, gear, and species, 1992-96.
20. Ex-vessel value of the groundfish catch off Alaska by area, processor category, and species, 1992-96.
21. Ex-vessel value of the groundfish catch off Alaska by area, residency, and species, 1992-96.
22. Ex-vessel prices in the groundfish fisheries off Alaska by area, gear, and species, 1992-96.
23. Number and total registered net tons of vessels that caught groundfish off Alaska by area and gear, 1992-96.
24. Number of vessels that caught groundfish off Alaska by area, tonnage caught, and gear, 1992-96.
25. Numbers, mean length, and mean registered tons of vessels that caught groundfish off Alaska by area, vessel length class, catcher type, and gear, 1992-96.
26. Number of vessels that caught groundfish off Alaska by area, processor category, target, and gear, 1992-96.
27. Number of vessels that caught groundfish off Alaska by area, residency, target, and gear, 1992-96.
28. Number of vessels that caught groundfish off Alaska by month, area, catcher type, and gear, 1992-96.

29. Catcher vessel weeks of fishing groundfish off Alaska by area, vessel length class, gear, and target, 1992-96.
30. Catcher-processor vessel weeks of fishing groundfish off Alaska by area, vessel length class, gear, and target, 1992-96.
31. Production of groundfish products in the fisheries off Alaska by species, 1992-96.
32. Production of groundfish products in the fisheries off Alaska by species, product, and area, 1992-96.
33. Production of groundfish products in the fisheries off Alaska by species, product, and processing mode, 1992-96.
34. Annual wholesale prices of frozen fish blocks and fillets, F.O.B. East Coast, 1976-96.
35. Monthly wholesale prices of selected frozen fish blocks and fillets, F.O.B. East Coast, 1994-96.
36. Monthly Japanese landing market price of selected groundfish by species, 1987-96.
37. Monthly Tokyo wholesale prices of selected products, 1987-96.
38. Annual exports of groundfish from Alaska, Washington, and Oregon customs districts, quantity, value, and average price, 1991-96.
39. Exports of groundfish from Alaska, Washington, and Oregon customs districts to major countries, quantity, percent change from 1995 to 1996, and average price, 1995-96.
40. U.S. imports of groundfish fillets, steaks, and blocks, 1976-96, quantity and value.
41. U.S. per capita consumption of fish and shellfish, 1970-96.
42. U.S. consumption of all fillets and steaks, and fish sticks and portions, 1980-96.
43. Annual U.S. economic indicators: Selected producer and consumer price indexes, 1976-96.
- 44.** Monthly U. S . economic indicators: Selected producer and consumer price indexes, 1994-96.
45. Annual foreign exchange rates for selected countries, 1976-95 in national currency units per U.S. dollar.

46. Monthly foreign exchange rates for selected countries, 1994-96 in national currency units per U.S. dollar.
47. Monthly U.S. cold storage holdings of selected groundfish blocks, 1994-96.
48. Monthly U.S. cold storage holdings of selected groundfish fillets, 1994-96.
49. Monthly West Coast cold storage holdings of selected groundfish products, 1994-96.

INTRODUCTION

The domestic groundfish fishery off Alaska has become an important segment of the U.S. fishing industry. With a total catch of 2.05 million metric tons (t), a retained catch of 1.77 million t, and an ex-vessel value of \$538 million in 1996, it accounted for 40.8% of the catch and 15.6 % of the ex-vessel value of the catch off U.S. shores. The value of the 1996 catch after primary processing was estimated at \$1.23 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; decreased the quantity and value of the resulting seafood products; and 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, bycatch, 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 1991-96 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. 1997) 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 2.05 million t in 1996, off 4.3 % from 1995 (Fig. 1). The decrease in catch was accompanied by a 6 % decline 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, declined by 9.3% from \$594 million in 1995 to \$538 million in 1996 (Table 1). The value of the 1996 catch after primary processing was estimated at \$1.23 billion. The groundfish fisheries accounted for the largest share of the ex-vessel value of all commercial fisheries off Alaska in 1996 (45.7%), while the Pacific salmon (*Oncorhynchus* spp.) fishery was second with \$346 million or 29.4% of the total Alaska ex-vessel value (Fig. 2 and Table 1). The value of the shellfish catch amounted to \$175 million or 14.8% of the total for Alaska.

The exports of groundfish products from the Pacific Northwest and Alaska have been the driving force behind the growth of the groundfish fisheries off Alaska. The value of edible groundfish exports, including Pacific halibut (*Hippoglossus stenolepis*), increased from \$126 million in 1986 to \$1.11 billion in 1992, and totaled \$916 million in 1996 (Fig. 3 and Table 2).

Exports of groundfish in 1996 accounted for 48.6% of all edible fishery products from the Pacific Northwest and Alaska, followed by salmon exports with \$645 million or 34.2%) and crab exports, with \$154 million or 8.2 % 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, excluding 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 1996 totaled 1.27 million t and accounted for 62 % of the total groundfish catch of 2.05 million t (Table 3). The pollock catch was down 9.1% from 1995. The next major species, Pacific cod (*Gadus macrocephalus*), accounted for 309,000 t or 15 % of the total 1996 groundfish catch. The Pacific cod catch was down slightly from a year earlier. The 1996 catch of flatfish, which includes yellowfin sole (*Pleuronectes asper*), rock sole (*Pleuronectes bilineatus*), and arrowtooth flounder (*Atheresthes stomias*) was 276,800 t in 1996, up 4.4% from 1995. Pollock, Pacific cod, and flatfish comprised 90.5% of the total 1996 catch. Other important species are sablefish (*Anoplopoma*

fimbria), rockfish (*Sebastes and Sebastolobus* spp.), and Atka mackerel (*Pleurogrammus monopterygius*) .

Table 4 lists the blend estimates of the retained, discarded, and total catch by gear, area, and species. Table 5 lists the discards and discard rates by gear, processing mode, and area. 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 species, area, gear, and target fishery. Tables 8 to 11 break down the discards and discard rates by area, species, gear, and target fishery. The discard rates vary by gear and target species. For the Gulf of Alaska, the overall groundfish discard rates were 8% , 1% , and 24% , respectively, for hook and line, pot, and trawl gear in 1996. The corresponding groundfish discard rates for the three gear types in the Bering Sea/Aleutian Islands area were 16 % , 4 % , and 13 % . Tables 12 to 15 present bycatch and bycatch rates for 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 pallasii*); 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 91.8% of the total catch, while the catch with hook and line gear accounted for 6.9% (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 1996, 51.4% (159,000 t) was taken by trawls, 34% (105,000 t) by hook and line gear, and 14.6% (45,000 t) by pots.

Catch for at-sea processing increased from 106,200 t in 1986 to 1,659,000 t in 1992, and decreased to 1445,000 t by 1996 (Table 17). The catch for on-shore processing increased from 61,500 t in 1986 to 621,000 t in 1992 and was 608,000 t in 1996. 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 70.7% of the total and, with the exception of flatfish and rockfish, accounted for the majority of the catch of each species.

Catch data 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, 87.7% of the 1996 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 8.2% of the catch and the remaining 4.1% of the catch was taken by vessels for which the residence of the owner was not known. The catches of the three vessel residence groups were much closer to being equal in the Gulf 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, declined from \$657 million in 1992 to \$594 million in 1995, and was \$538 million in 1996 (Fig. 4 and Table 19). The ex-vessel value in 1996 dropped by 9.3 % from a year earlier, while catch was down 3.5 %. Pollock was the dominant species with 43.4% of the total ex-vessel value, while accounting for 67.3 % of the quantity. Sablefish accounted for 14.7 % of the value compared with only 1.1% of the catch, and Pacific cod represented 23.6 % of the value and 15.4% of the catch.

The 1996 ex-vessel value of the landings for at-sea processing and on-shore processing were \$339 million and \$199 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 70% of the catch (Table 17), it accounted for only 63 % of the ex-vessel value (Table 20). 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, however the ex-vessel value of the landings is dominated by vessels with owners who indicated that they were not residents of Alaska. The estimated ex-vessel values of the 1996 catch of Alaskan vessels, other vessels, and vessels of unknown residence were \$85.6 million (15.9%), \$424.2 million (78.8%), and \$28.6 million (5.3 %) , respectively (Table 21).

The overall weighted average ex-vessel price, excluding the value added by at-sea processing, declined in 1993 from the previous year, rebounded in 1994 and 1995, and declined from \$0.147 per pound in 1995 to \$0.138 per pound, round weight in 1996. The average price of pollock fell from \$0.099 per pound in 1995 to \$0.089 in 1996 (Table 22). The average price of sablefish was slightly lower than a year earlier. Pacific cod prices were up 1.9%) and Atka

mackerel prices increased by 12.4%. Average prices of flatfish and rockfish in 1996 were down by 14.4% and 24.3%, respectively from 1995.

The number of vessels harvesting groundfish off Alaska declined from a peak of 2,243 vessels in 1992 to 1,686 in 1996 (Table 23). Table 24 breaks out the number of vessels into three classes by the amount of groundfish caught. From 1992 to 1996, the number of trawl vessels that caught more than 25 tons of groundfish declined from 291 in 1992 to 267 in 1996 (Table 24, 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 316 vessels in 1996. 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 160 in 1996.

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-processor vessels.

Data on production of groundfish products by species are presented in Tables 31 to 33. The total value in 1996 declined by 11.5 % to an estimated \$1.23 billion from \$1.39 billion in 1995. The decline in prices of major groundfish exports in 1996, pollock surimi and pollock roe, account for the drop in product value for 1996. Production of pollock surimi declined by 9.7 % in 1996 to 160,900 t, while the value declined by 32 % to \$298 million. Pollock roe production fell by 8.8% to 14,500 t, and the value dropped by 19% to \$176 million. Production of cod products was slightly higher, and the value was 3 % above the previous year's 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 increasing in 1995, cod block prices declined by 15.2% in 1996. Annual average prices of cod fillets in 1996 were down 1.0% from 1995. Domestic pollock block prices in 1996 fell by 5.5 % after increasing in 1995. The Japanese landed and wholesale prices in Tables 36 and 37 were generally higher for groundfish products in 1996, except for Alaska pollock and surimi. Japanese wholesale prices of surimi were down 8 % from 1995.

Exports of edible groundfish products from Oregon, Washington, and Alaska customs districts in 1996 amounted to 889 million lb and \$916 million. These exports were 6.6% higher by quantity but down 7% by value from the previous year. The increase in the value of groundfish exports resulted primarily from lower surimi and cod prices. Groundfish exports in 1996 included \$97 million of cod products, \$88 million of sablefish, \$110 million of flatfish (including \$16 million of halibut), \$167 million of roe, and \$324 million of "other" fishery products which was dominated by \$265 million of surimi (Tables 38 and 39).

Japan continued to dominate the U.S. export market of edible fishery products, and the top four countries in 1996 purchased 92% of the total. Japan imported \$706 million of Northwest and Alaska edible groundfish products or 77% of the total value of \$916 million. The Republic of Korea was a distant second with purchases of \$104 million or 11% of the total. Canada was the third largest importer with \$37.2 million, followed by the People's Republic of China with \$20.4 million.

In addition to exports of edible fishery products, there were exports of other products. Some products are non-edible, while others are listed by Customs as non-edible although, when highly refined, they may be consumed by humans such as fish oils, fish liver oils, seaweed and other algae, and thickeners derived from kelp. These products totaled \$69.8 million; ranked by

value, they include fish meal (\$28.2 million), fish products unfit for human consumption (\$12.2 million), fish meal for human consumption (\$10.9 million), and fish oils (\$8.4 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 1996 totaled 457 million pounds and valued at \$620 million. Imports of blocks and fillets in 1996 were up 3.4 % by quantity and down 4.6 % 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 pounds per capita in 1980 to 16.2 pounds in 1987. Since 1987, per capita consumption has declined, and stood at 14.8 pounds in 1996. Per capita consumption of fresh and frozen fish and shellfish increased from 7.9 pounds in 1980 to 10.0 pounds in 1996. Per capita consumption of fresh and frozen fish and shellfish was unchanged from a year earlier, while per capita consumption of canned fish increased by 0.2 pounds from 1995 (Table 41). Not all seafood products have exhibited an increase in per capita consumption. While per capita consumption of fillets and steaks increased by 32% between 1980 and 1996, consumption of fish sticks and portions declined by 45 % (Table 42). However, since 1987, per capita consumption of fillets and steaks has declined 11.4 % to 3.1 pounds, and stick and portion consumption has declined 38 % to 1.07 pounds in 1996.

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 1996, the producer price index (PPI) increased by 2.3 % from 1995, while the consumer price index (CPI) rose 3 % from the previous year. The increase in the CPI continues to be below the annual average increase of 4.7 % in the 1980s. Consumer price indexes for meat and poultry increased by 3.5 % and 6.3 % , respectively, in 1996, while fish and shellfish prices rose by only 0.8%.

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 1996, the value of the U.S. dollar was stronger compared to the Japanese yen and the Republic of Korea's won, and was slightly weaker 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 increased 15.6 % to 108.8 yen to the U.S. dollar from 94.1 yen in 1995. The stronger U.S. dollar makes U.S. exports more expensive in Japan. The U.S. dollar in 1996 was down 0.6% relative to the Canadian dollar and gained 4.3 % relative to the Korean won from 1995.

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 1996 were up 5.4% from a year earlier and down 10.5% compared with the 1991-95 average 31 December holdings.

While U.S. holdings offer an overall view of the U.S. groundfish market, West Coast holdings provide a regional view of the supply of West Coast groundfish products (Table 49). Holdings of pollock blocks and 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 blocks and fillets on 31 December 1996 were down 10% from a year earlier, cod fillets were 76% lower, holdings of surimi were down 26.7 % , while analog products were down 23.8 % from a year earlier.

CITATIONS

- Kinoshita, R. K., A. Greig, D. Colpo, and J. M. Terry. 1997. Economic status of the groundfish fisheries off Alaska, 1995. U.S. Dep. Commer., NOAA Tech. Memo. NMFS-AFSC-72, 91 p.
- National Marine Fisheries Service. 1997. Fisheries of the United States, 1996. U.S. Dep. Commer., Current Fish. Stat. No. 9600, July 1997, 169 p. Available Sup. Doc., U.S. Gov. Print. Off., Washington, DC 20402.

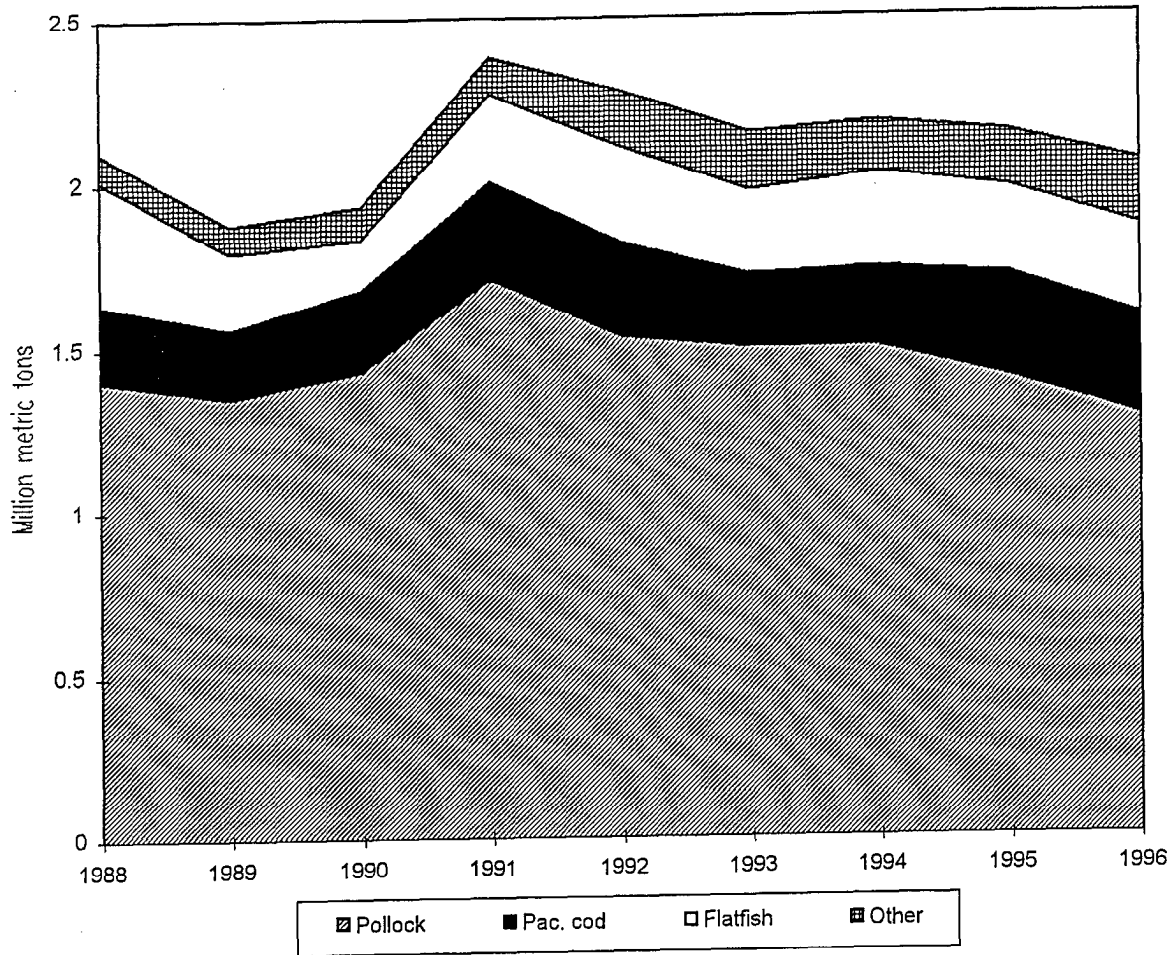


Figure 1.--Groundfish catch in the commercial fisheries off Alaska by species, 1988-96.

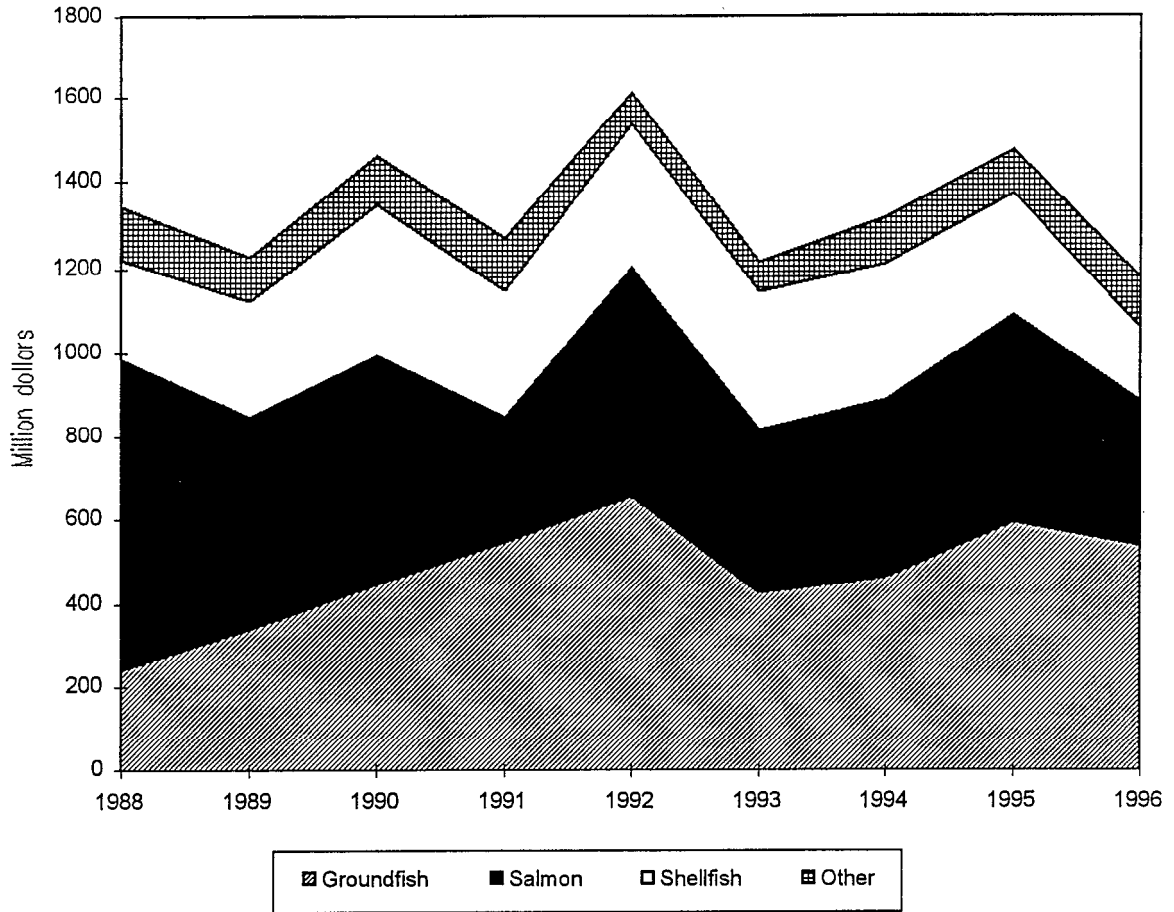


Figure 2.--Ex-vessel value of the domestic fish and shellfish catch off Alaska, 1988-96.

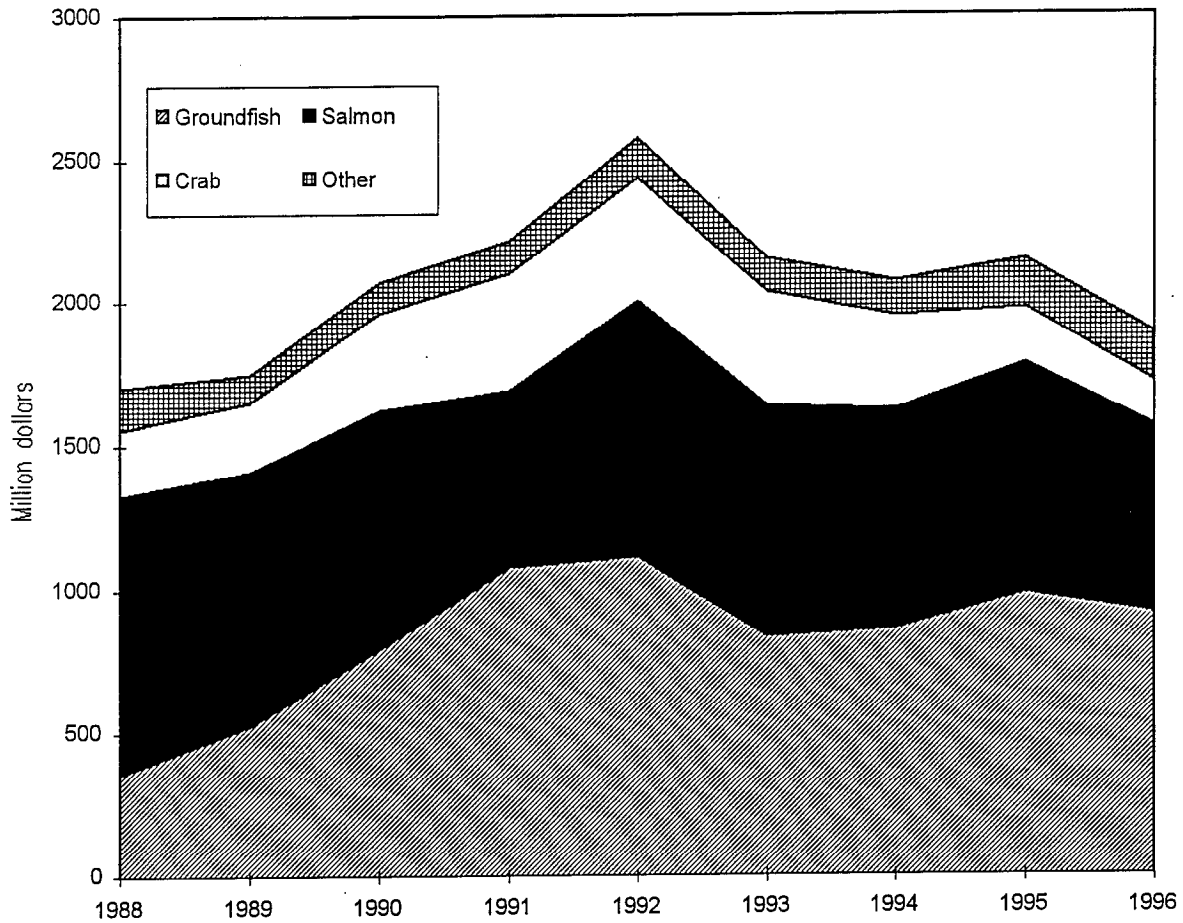


Figure 3.--Pacific Northwest and Alaska exports of edible fishery products by major product groups, 1988-96.

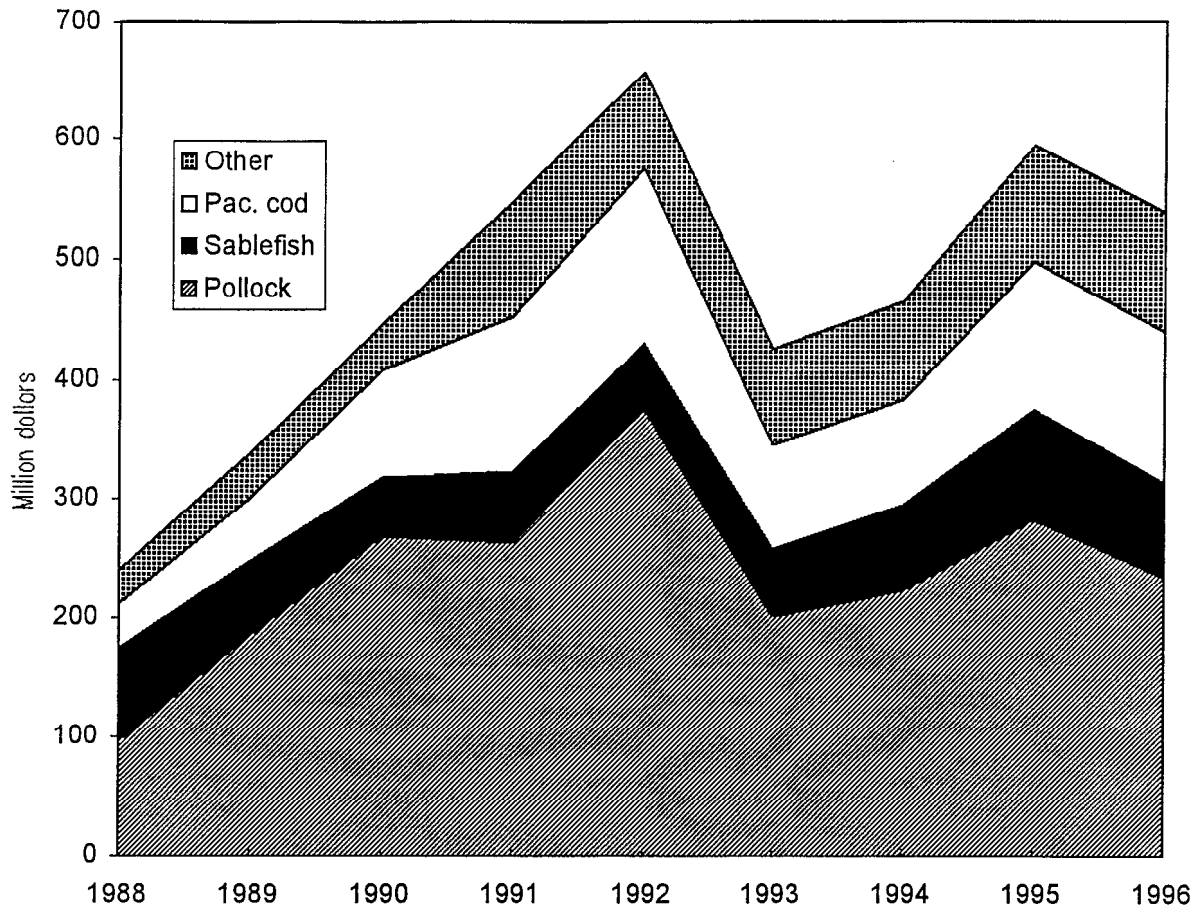


Figure 4.--Ex-vessel value of the domestic groundfish catch off Alaska by species, 1988-96.

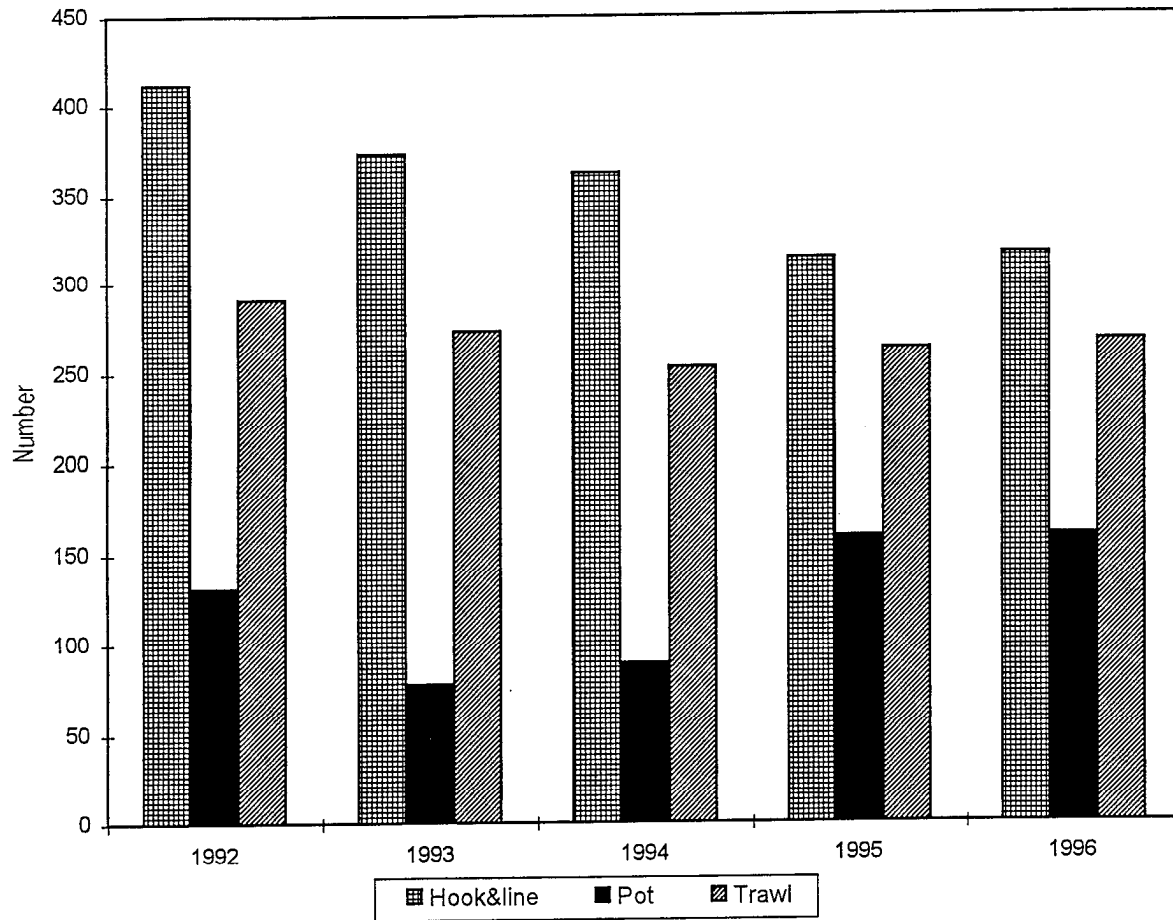


Figure 5.--Number of vessels that landed more than 25 tons of groundfish in the domestic fishery off Alaska by gear type, 1992-96.

Table 1.--Ex-vessel value of the catch in the commercial fisheries off Alaska by species group, 1982-96, (\$ 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	656.9	1,611.5
1993	328.5	391.1	14.1	53.6	425.8	1,213.1
1994	321.2	424.4	21.6	84.7	465.2	1,317.1
1995	282.9	495.9	39.1	59.5	593.7	1,471.1
1996	175.2	346.5	44.8	74.2	538.3	1,179.0
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	20.8	33.8	1.7	3.0	40.7	100.0
1993	27.1	32.2	1.2	4.4	35.1	100.0
1994	24.4	32.2	1.7	6.4	35.3	100.0
1995	19.2	33.7	2.7	4.0	40.4	100.0
1996	14.8	29.4	3.8	6.3	45.7	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), 1982-96.

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
1996	645	96	916	154	73	1,884
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
1996	34.2	5.1	48.6	8.2	3.9	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, 1987-96 (1,000 metric tons, round weight).

	Pollock	Sablefish	Pacific cod	Flatfish	Rockfish	Atka mackerel	Total
Gulf of Alaska							
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
1996	51.3	18.2	68.3	43.1	18.2	1.6	205.2
Bering Sea and Aleutian Islands							
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
1996	1,222.3	1.4	240.7	233.7	24.0	103.9	1,848.6
All Alaska							
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
1996	1,273.6	19.6	309.0	276.8	42.2	105.5	2,053.8

Notes: Totals may include additional categories.

Source: Blend estimates for 1991-96. Processor reports and fish tickets for 1987-90.
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 1992-96, (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									
1992	47.6	8.1	55.6	175.6	52.7	228.2	223.3	60.7	284.1
1993	41.7	6.7	48.5	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
1996	39.7	2.7	42.5	124.4	38.4	162.7	164.1	41.1	205.2
Pollock									
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
1996	.0	.0	.1	46.1	5.1	51.2	46.1	5.2	51.3
Sablefish									
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
1996	15.9	.3	16.2	1.5	.5	2.0	17.4	.9	18.2
Pacific cod									
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
1996	21.8	.5	22.3	38.9	7.1	46.0	60.7	7.6	68.3
Flatfish									
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
1996	.0	.7	.7	23.1	19.4	42.4	23.1	20.0	43.1
Rockfish									
1992	2.3	.7	2.9	16.8	5.2	22.0	19.1	5.9	24.9
1993	1.7	.7	2.4	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
1996	1.8	.3	2.2	12.8	3.3	16.0	14.6	3.6	18.2
Atka mackerel									
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
1996	-	.0	.0	1.3	.3	1.6	1.3	.3	1.6

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									
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
1996	130.6	19.5	150.1	1,474.6	224.0	1,698.6	1,605.1	243.5	1,848.6
Pollock									
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
1996	.3	2.6	2.9	1,144.8	74.6	1,219.4	1,145.1	77.2	1,222.3
Sablefish									
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
1996	1.1	.1	1.2	.1	.0	.2	1.3	.2	1.4
Pacific cod									
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
1996	123.7	3.9	127.6	88.1	24.9	113.1	211.9	28.8	240.7
Flatfish									
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
1996	3.8	4.6	8.3	138.3	87.1	225.4	142.1	91.7	233.7
Rockfish									
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
1996	.3	.2	.5	15.4	8.0	23.5	15.7	8.3	24.0
Atka mackerel									
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
1996	.0	.1	.1	86.8	17.1	103.9	86.8	17.2	103.9

Table 4.--Continued.

Area/Species/Year	Fixed		Trawl			All gear			Total
	Retained	Discard	Total	Retained	Discard	Total	Retained	Discard	
All Alaska									
All groundfish									
1992	164.4	29.1	193.5	1,738.9	347.3	2,086.2	1,903.6	376.5	2,280.0
1993	116.4	24.4	140.8	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
1996	170.3	22.2	192.5	1,598.9	262.4	1,861.3	1,769.2	284.6	2,053.8
Pollock									
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
1996	.3	2.7	3.0	1,190.9	79.7	1,270.6	1,191.2	82.4	1,273.6
Sablefish									
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
1996	17.0	.5	17.4	1.6	.6	2.2	18.6	1.0	19.6
Pacific cod									
1992	137.6	2.9	140.5	119.8	24.8	144.6	257.6	27.8	285.4
1993	81.7	5.3	87.0	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
1996	145.6	4.3	149.9	127.0	32.0	159.1	272.6	36.4	309.0
Flatfish									
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
1996	3.8	5.2	9.0	161.4	106.5	267.8	165.2	111.7	276.8
Rockfish									
1992	2.9	1.1	4.0	29.9	9.2	39.1	32.8	10.3	43.2
1993	2.4	1.1	3.4	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
1996	2.1	.6	2.7	28.2	11.3	39.5	30.3	11.9	42.2
Atka mackerel									
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
1996	.0	.1	.1	88.0	17.4	105.4	88.0	17.5	105.5

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, 1992-96 (1,000 metric tons, round weight).

	At-sea			On-shore		
	Fixed	Trawl	All gear	Fixed	Trawl	All gear
Gulf of Alaska						
Discards						
1992	1.0	28.0	29.0	7.0	24.7	31.7
1993	1.2	23.4	24.6	5.5	21.8	27.4
1994	.9	22.6	23.6	2.2	17.7	19.9
1995	.8	19.9	20.8	3.4	15.1	18.5
1996	.7	22.2	22.9	2.1	16.1	18.2
Discard rate						
1992	7.5%	33.4%	29.7%	16.9%	17.1%	17.0%
1993	11.5%	37.1%	33.5%	14.5%	14.6%	14.6%
1994	11.8%	53.5%	46.8%	6.9%	11.6%	10.7%
1995	9.1%	41.4%	36.2%	8.2%	12.6%	11.5%
1996	8.5%	42.8%	38.3%	6.0%	14.6%	12.5%
Bering Sea and Aleutian Islands						
Discards						
1992	19.4	281.1	300.7	1.6	13.5	15.0
1993	17.0	236.8	253.8	.7	41.8	42.5
1994	17.9	234.5	252.5	2.1	31.7	33.8
1995	19.7	222.2	241.9	3.8	28.3	32.1
1996	17.3	196.5	213.8	2.2	27.5	29.8
Discard rate						
1992	14.9%	19.1%	18.7%	22.2%	3.5%	3.9%
1993	19.2%	17.5%	17.6%	18.3%	9.5%	9.6%
1994	16.8%	17.6%	17.5%	20.6%	6.4%	6.6%
1995	15.5%	16.9%	16.8%	18.1%	6.1%	6.6%
1996	13.8%	15.6%	15.4%	9.0%	6.3%	6.4%
All Alaska						
Discards						
1992	20.5	309.1	329.7	8.6	38.2	46.7
1993	18.2	260.2	278.4	6.2	63.7	69.9
1994	18.9	257.1	276.1	4.3	49.4	53.7
1995	20.6	242.1	262.7	7.2	43.4	50.6
1996	17.9	218.7	236.6	4.3	43.6	47.9
Discard rate						
1992	14.1%	19.8%	19.4%	17.6%	7.2%	8.1%
1993	18.4%	18.4%	18.4%	14.9%	10.8%	11.1%
1994	16.5%	18.7%	18.5%	10.1%	7.6%	7.7%
1995	15.0%	17.8%	17.5%	11.5%	7.4%	7.8%
1996	13.5%	16.7%	16.4%	7.2%	8.0%	7.9%

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, 1995-96 (1,000 metric tons, round weight).

Year/Gear/Target	Species											
	Pollock	Sablefish	Pacific cod	Arrowtooth	Flathd. sole	Rex sole	Flat deep	Flat shallow	Rockfish	Atka mack.	Other	Total
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	2.8	.0	.4	.1	.1	.0	.0	.0	.0	-	.1	3.6
pelagic	67.0	.0	.3	.2	.0	.0	.0	.0	.0	.1	.1	67.7
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

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												
1996												
Hook and line												
Sablefish	.0	16.1	.3	.6	.0	.0	.0	.0	1.2	-	.4	18.6
Pacific cod	.0	.0	10.0	.1	.0	.0	.0	.0	.1	.0	.4	10.5
Rockfish	-	.0	.0	.0	-	-	.0	-	.9	-	.0	1.0
Total	.1	16.1	10.2	.6	.0	.0	.0	.0	2.2	.0	.9	30.2
Pot												
Sablefish	-	.1	.0	-	-	-	-	-	.0	-	-	.1
Pacific cod	.0	.0	12.0	.0	-	-	-	.0	.0	-	.2	12.2
Total	.0	.1	12.0	.0	-	-	-	.0	.0	-	.2	12.3
Trawl												
Pollock												
bottom	4.2	-	.5	.5	.0	.0	.0	.2	.0	.2	.0	5.7
pelagic	43.0	.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	43.4
Sablefish	.0	.0	.0	.1	.0	.0	.0	.0	.0	-	.0	.2
Pacific cod	1.2	.0	38.1	1.3	.3	.2	.0	1.4	.2	.0	.3	43.0
Arrowtooth	1.4	.2	1.3	6.8	.6	.7	.4	.3	.2	.0	.4	12.3
Flathd. sole	.2	.0	.9	1.0	.7	.2	.0	.1	.1	.0	.2	3.5
Rex sole	.4	.2	.8	7.4	.5	4.3	.4	.0	1.0	.0	.7	15.7
Flat deep	.0	.2	.1	.9	.1	.1	.9	.2	.2	-	.1	2.8
Flat shallow	.6	.0	3.4	1.8	.7	.1	.1	6.7	.1	.0	1.3	14.8
Rockfish	.2	1.4	.4	2.1	.1	.3	.3	.4	14.2	.1	.2	19.5
Atka mack.	.0	.0	.1	.0	.0	.0	.0	.0	.1	1.2	.0	1.5
Total	51.2	2.0	46.0	21.9	3.1	5.9	2.2	9.4	16.0	1.6	3.4	162.7
All gear												
Total	51.3	18.2	68.3	22.5	3.1	5.9	2.2	9.4	18.2	1.6	4.5	205.2

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, 1995-96
(1,000 metric tons, round weight).

Year/Gear/Target	Species											Total	
	Pollock	Sable- fish	Pacific cod	Arrow- tooth	Flathd. sole	Rock sole	Turbot	Yellow- fin	Flat other	Rock- fish	Atka mack.		Other
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	107.8	.0	9.5	.6	1.0	1.6	.0	.8	.3	.0	.1	.4	122.3
pelagic	1,153.3	.0	10.4	.6	1.1	.6	.1	.2	.2	.2	.1	.9	1,167.6
Sablefish	.0	.0	.0	.1	.0	-	.1	-	.0	.0	.0	.0	.2
Pacific cod	22.4	.0	71.0	1.6	2.8	13.8	.1	.7	.9	.2	.1	2.6	116.2
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

Table 7.--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													
1996													
Hook and line													
Sablefish	.0	.9	.1	.2	.0	.0	1.2	-	.0	.2	.0	.2	2.9
Pacific cod	2.9	.1	94.7	2.1	.3	.1	.4	.1	.0	.2	.0	8.4	109.4
Turbot	.0	.2	.1	.3	.0	.0	3.3	-	.0	.1	.0	.2	4.1
Rockfish	-	.0	.0	.0	-	.0	.0	-	.0	.0	-	.0	.1
Total	2.9	1.2	95.0	2.6	.3	.1	4.9	.1	.0	.5	.0	8.8	116.4
Pot													
Pacific cod	.0	.0	32.6	.0	.0	.0	.0	.3	.0	.0	.1	.6	33.6
Total	.0	.0	32.6	.0	.0	.0	.0	.3	.0	.0	.1	.6	33.6
Trawl													
Pollock													
bottom	112.7	.0	6.0	.8	1.5	1.4	.0	1.1	.4	.1	.3	1.4	125.7
pelagic	1,050.9	.0	9.2	1.0	1.7	.7	.0	.8	.6	.3	.0	1.3	1,066.7
Sablefish	.0	.0	.0	.1	.0	.0	.0	-	.0	.0	-	.0	.1
Pacific cod	19.1	.0	69.7	3.3	2.8	9.3	.1	1.9	1.0	.3	.6	3.4	111.6
Arrowtooth	.0	-	.0	.0	.0	.0	-	.0	.0	-	-	.0	.1
Flathd. sole	4.2	.0	2.2	2.2	5.9	2.4	.2	4.3	2.0	.0	-	1.3	24.8
Rock sole	8.0	.0	7.3	1.3	1.3	19.5	.0	6.2	1.7	.0	.0	1.6	46.9
Turbot	.0	.1	.0	.2	.1	.0	.3	.0	.0	.0	-	.0	.8
Yellowfin	22.2	.0	8.7	.8	3.1	12.8	.0	112.1	10.9	.0	.0	2.6	173.2
Flat, other	1.4	.0	.6	.9	.6	.6	.0	2.7	1.8	.0	.0	.3	9.1
Rockfish	.3	.0	.5	.9	.0	.0	.7	.0	.0	14.7	2.4	.2	19.7
Atka mack.	.5	.0	8.7	.3	.0	.1	.2	.0	.0	8.0	100.5	.8	119.3
Total	1,219.4	.2	113.1	12.0	17.1	46.9	1.7	129.3	18.6	23.5	103.9	13.2	1,698.6
All gear													
Total	1,222.3	1.4	240.7	14.7	17.3	46.9	6.6	129.7	18.6	24.0	103.9	22.6	1,848.6

29

Notes: Totals **my** 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, 1995-96 (1,000 metric tons, round weight).

Year/Gear/Target	Species											
	Pollock	Sablefish	Pacific cod	Arrowtooth	Flathd. sole	Rex sole	Flat deep	Flat shallow	Rockfish	Atka mack.	Other	Total
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	.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

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												
1996												
Hook and line												
Sablefish	.0	.3	.2	.6	.0	.0	.0	.0	.3	-	.4	1.9
Pacific cod	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.4	.6
Rockfish	-	.0	.0	.0	-	-	.0	-	.0	-	.0	.0
Total	.0	.3	.4	.6	.0	.0	.0	.0	.3	.0	.8	2.5
Pot												
Sablefish	-	.0	.0	-	-	-	-	-	.0	-	-	.0
Pacific cod	.0	.0	.0	.0	-	-	-	.0	.0	-	.1	.2
Total	.0	.0	.0	.0	-	-	-	.0	.0	-	.1	.2
Trawl												
Pollock												
bottom	.2	-	.1	.5	.0	.0	.0	.0	.0	.2	.0	1.0
pelagic	1.4	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	1.7
Sablefish	.0	.0	.0	.1	.0	.0	.0	.0	.0	-	.0	.1
Pacific cod	1.0	.0	.8	1.2	.2	.0	.0	.3	.1	.0	.3	3.8
Arrowtooth	1.4	.1	1.3	2.2	.1	.0	.2	.1	.2	.0	.3	5.9
Flathd. sole	.2	.0	.9	.9	.1	.0	.0	.0	.0	.0	.1	2.3
Rex sole	.4	.1	.4	7.3	.2	.1	.2	.0	.7	.0	.7	10.2
Flat deep	.0	.1	.1	.8	.0	.0	.1	.0	.1	-	.1	1.2
Flat shallow	.4	.0	3.0	1.5	.1	.0	.0	.7	.1	.0	.8	6.7
Rockfish	.1	.2	.4	1.9	.0	.1	.1	.1	2.0	.0	.2	5.1
Atka mack.	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1	.0	.3
Total	5.1	.5	7.1	16.5	.7	.3	.6	1.3	3.3	.3	2.7	38.4
All gear												
Total	5.2	.9	7.6	17.1	.7	.3	.6	1.3	3.6	.3	3.6	41.1

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, 1995-96
(1,000 metric tons, round weight).

Year/Gear/Target	Species											Total	
	Pollock	Sable- fish	Pacific cod	Arrow- tooth	Flathd. sole	Rock sole	Turbot	Yellow- fin	Flat other	Rock- fish	Atka mack.		Other
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	4.6	.0	7.2	.6	.7	1.3	.0	.5	.2	.0	.1	.4	15.7
pelagic	36.8	.0	7.2	.5	1.1	.5	.1	.2	.1	.2	.1	.7	47.5
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

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													
1996													
Hook and line													
Sablefish	.0	.0	.1	.2	.0	.0	1.0	-	.0	.1	.0	.2	1.6
Pacific cod	2.6	.0	3.3	1.9	.3	.1	.2	.1	.0	.1	.0	7.1	15.7
Turbot	.0	.1	.0	.3	.0	.0	.1	-	.0	.0	.0	.2	.7
Rockfish	-	.0	.0	.0	-	.0	.0	-	.0	.0	-	.0	.0
Total	2.6	.1	3.4	2.4	.3	.1	1.4	.1	.0	.2	.0	7.4	18.1
Pot													
Pacific cod	.0	.0	.5	.0	.0	.0	.0	.3	.0	.0	.1	.6	1.4
Total	.0	.0	.5	.0	.0	.0	.0	.3	.0	.0	.1	.6	1.4
Trawl													
Pollock													
bottom	3.3	.0	4.3	.8	.8	1.0	.0	.8	.2	.1	.3	1.0	12.6
pelagic	18.0	.0	5.8	.8	1.4	.6	.0	.7	.3	.1	.0	.9	28.7
Sablefish	.0	.0	.0	.1	.0	.0	.0	-	.0	.0	-	.0	.1
Pacific cod	18.6	.0	3.2	3.2	2.5	8.1	.1	1.3	.9	.3	.6	3.4	42.0
Arrowtooth	.0	-	.0	.0	.0	.0	-	.0	.0	-	-	.0	.0
Flathd. sole	4.1	.0	1.1	2.1	1.3	1.5	.0	2.0	1.1	.0	-	1.3	14.4
Rock sole	7.7	.0	3.4	1.3	.7	7.4	.0	2.5	1.1	.0	.0	1.6	25.8
Turbot	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	-	.0	.3
Yellowfin	20.5	.0	4.5	.6	1.2	8.0	.0	19.7	8.5	.0	.0	2.4	65.6
Flat, other	1.4	.0	.3	.9	.2	.4	.0	1.0	.5	.0	.0	.3	4.9
Rockfish	.3	.0	.1	.5	.0	.0	.1	.0	.0	1.9	.8	.2	3.9
Atka mack.	.5	.0	2.1	.3	.0	.1	.1	.0	.0	5.6	15.4	.8	25.0
Total	74.6	.0	24.9	10.9	8.1	27.1	.4	27.9	12.7	8.0	17.1	12.3	224.0
All gear													
Total	77.2	.2	28.8	13.3	8.4	27.2	1.8	28.3	12.7	8.3	17.2	20.3	243.5

33

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, 1995-96.

	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	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	2%	0%	5%	64%	39%	38%	13%	23%	2%	-	86%	7%
pelagic	7%	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%

Table 10.--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												
1996												
Hook and line												
Sablefish	99%	2%	79%	100%	72%	100%	84%	9%	29%	-	95%	10%
Pacific cod	53%	0%	2%	86%	39%	0%	87%	88%	3%	100%	90%	6%
Rockfish	-	0%	2%	95%	-	-	0%	-	0%	-	68%	1%
Total	67%	2%	4%	98%	18%	1%	83%	69%	16%	100%	89%	8%
Pot												
Sablefish	-	0%	0%	-	-	-	-	-	0%	-	-	0%
Pacific cod	99%	100%	0%	100%	-	-	-	100%	100%	-	67%	1%
Total	99%	1%	0%	100%	-	-	-	100%	46%	-	66%	1%
Trawl												
Pollock												
bottom	4%	-	22%	95%	41%	17%	20%	29%	40%	91%	92%	18%
pelagic	3%	100%	37%	87%	77%	70%	75%	98%	88%	8%	83%	4%
Sablefish	48%	2%	64%	100%	9%	27%	36%	33%	80%	-	100%	64%
Pacific cod	82%	11%	2%	94%	49%	7%	10%	21%	72%	51%	88%	9%
Arrowtooth	93%	77%	94%	33%	20%	5%	51%	32%	79%	98%	81%	48%
Flathd. sole	91%	12%	93%	96%	9%	19%	33%	11%	41%	67%	81%	66%
Rex sole	96%	41%	55%	99%	39%	3%	44%	42%	72%	0%	100%	65%
Flat deep	82%	36%	52%	89%	24%	4%	6%	8%	38%	-	88%	42%
Flat shallow	73%	22%	89%	81%	13%	14%	9%	11%	53%	31%	67%	45%
Rockfish	93%	17%	92%	91%	23%	23%	37%	20%	14%	38%	96%	26%
Atka mack.	100%	8%	97%	96%	6%	10%	100%	16%	64%	5%	100%	20%
Total	10%	26%	15%	75%	23%	5%	27%	14%	20%	21%	77%	24%
All gear												
Total	10%	5%	11%	76%	23%	5%	28%	14%	20%	21%	79%	20%

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, 1995-96.

	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	4%	100%	76%	92%	71%	77%	100%	67%	74%	74%	100%	99%	13%
pelagic	3%	66%	69%	94%	95%	85%	99%	96%	57%	73%	92%	87%	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%

Table 11.--Continued.

	Species											Total	
	Pollock	Sablefish	Pacific cod	Arrowtooth	Flathd. sole	Rock sole	Turbot	Yellowfin	Flat other	Rockfish	Atka mack.		Other
Year/Gear/Target													
1996													
Hook and line													
Sablefish	100%	2%	67%	100%	100%	100%	85%	-	100%	41%	64%	100%	56%
Pacific cod	90%	31%	3%	89%	96%	96%	57%	96%	93%	61%	100%	84%	14%
Turbot	17%	38%	5%	97%	97%	100%	4%	-	38%	7%	100%	91%	16%
Rockfish	-	15%	59%	100%	-	100%	93%	-	100%	7%	-	100%	65%
Total	90%	10%	4%	91%	96%	96%	28%	96%	92%	45%	100%	85%	16%
Pot													
Pacific cod	98%	100%	1%	99%	100%	100%	100%	100%	100%	59%	97%	90%	4%
Total	99%	59%	2%	99%	100%	100%	100%	100%	100%	59%	97%	89%	4%
Trawl													
Pollock													
bottom	3%	100%	72%	95%	57%	71%	99%	70%	50%	87%	90%	75%	10%
pelagic	2%	53%	62%	81%	82%	89%	68%	88%	42%	46%	72%	68%	3%
Sablefish	100%	1%	60%	100%	21%	80%	0%	-	1%	41%	-	100%	55%
Pacific cod	97%	96%	5%	97%	88%	87%	98%	68%	88%	92%	89%	99%	38%
Arrowtooth	100%	-	8%	43%	86%	77%	-	50%	36%	-	-	100%	61%
Flathd. sole	97%	19%	50%	96%	22%	60%	23%	45%	56%	23%	-	100%	58%
Rock sole	96%	5%	47%	100%	51%	38%	0%	41%	66%	85%	95%	100%	55%
Turbot	100%	6%	52%	100%	13%	33%	14%	98%	10%	4%	-	100%	44%
Yellowfin	93%	0%	52%	77%	38%	63%	79%	18%	78%	98%	100%	95%	38%
Flat, other	97%	7%	46%	96%	31%	61%	35%	35%	25%	50%	100%	100%	53%
Rockfish	99%	3%	17%	57%	26%	64%	14%	100%	43%	13%	33%	99%	20%
Atka mack.	99%	26%	25%	76%	69%	92%	41%	100%	96%	69%	15%	99%	21%
Total	6%	18%	22%	91%	48%	58%	26%	22%	68%	34%	16%	93%	13%
All gear													
Total	6%	11%	12%	91%	48%	58%	28%	22%	68%	35%	17%	90%	13%

37

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 1995-96. (metric tons (t) or number in 1,000s).

	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	18.3	.0	.0	.0	52.5	1.4	.0	.0
Total	18.3	.0	.0	.0	52.5	1.4	.0	.0
Trawl								
Pollock								
bottom	14.2	.0	.0	.0	1.5	.0	.5	.1
pelagic	87.0	48.3	.0	.4	2.5	2.0	4.4	62.0
Sablefish	12.0	.0	.0	.1	.2	.0	.0	.0
Pacific cod	473.0	.0	.0	.5	15.2	1.0	1.5	.0
Arrowtooth	157.9	.0	.0	.0	3.2	.5	.1	.5
Flathd. sole	78.9	.0	.1	.0	3.5	.0	.0	.0
Rex sole	484.0	.0	.0	.3	2.1	1.0	1.3	.5
Flat deep	87.1	.0	.0	.0	1.0	.4	1.4	1.1
Flat shallow	350.6	.3	.1	.0	18.5	.0	.3	.2
Rockfish	301.2	.0	.0	.9	.2	1.9	5.1	.3
Atka mack.	1.2	.0	.0	.0	.0	.0	.0	.0
Total	2,050.6	48.7	.2	2.3	47.9	6.8	14.6	64.8
All gear								
Total	2,068.9	48.7	.3	2.6	101.1	20.6	14.7	65.0

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								
1996								
Hook and line								
Sablefish	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Pacific cod	n.a.	.0	.0	.0	.1	.3	.0	.0
Arrowtooth	n.a.	.0	.0	.0	.0	.0	.0	.0
Flathd. sole	n.a.	.0	.0	.0	.0	.0	.0	.0
Rockfish	n.a.	.0	.0	.0	.0	.0	.0	.0
Total	n.a.	.0	.0	.0	.1	.4	.0	.0
Pot								
Sablefish	.0	.0	.0	.0	.0	.0	.0	.0
Pacific cod	16.8	.0	.0	.0	71.2	1.7	.0	.0
Total	16.8	.0	.0	.0	71.2	1.7	.0	.0
Trawl								
Pollock								
bottom	10.4	.0	.0	.0	.1	.1	1.9	1.2
pelagic	4.7	2.7	.0	.0	.0	.0	9.4	1.6
Sablefish	4.2	.0	.0	.0	.0	.0	.0	.0
Pacific cod	263.0	.0	.0	.3	69.5	.1	.8	.3
Arrowtooth	348.6	.1	.0	.0	56.3	.0	.1	.0
Flathd. sole	87.5	.0	.1	.0	3.0	.0	.2	.1
Rex sole	303.0	.0	.0	.2	1.4	.0	2.7	.5
Flat deep	106.2	.0	.0	.0	1.0	.6	.1	.1
Flat shallow	632.8	.8	.1	.0	18.3	.2	.1	.1
Rockfish	174.7	.0	.0	1.1	4.3	.6	.3	.2
Atka mack.	8.9	.0	.0	.0	.0	.0	.0	.2
Total	1,946.4	3.6	.2	1.6	154.0	1.6	15.8	4.2
All gear								
Total	1,963.2	3.6	.2	1.7	225.3	3.7	15.8	4.2

Notes: Totals may include additional categories. The target, calculated by AFSC staff, based on processor, week, processing mode, NMFS area, and gear. International Pacific Halibut Commission discard mortality rates are used to estimate halibut mortality. The halibut Individual Fishing Quota program allows retention of halibut in the hook and line groundfish fisheries making true halibut bycatch numbers unavailable. No prohibited species bycatch numbers were available for the sablefish fishery in 1996.

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, 1995-96 (metric tons (t) or number in 1,000s).

	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	798.9	.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	6.1	.0	.0	.0	.0	.0	.0	.0
Total	887.1	.0	.3	2.4	24.6	76.8	.7	.1
Pot								
Sablefish	1.1	.0	.0	.0	.0	.0	.0	.0
Pacific cod	10.1	.0	3.0	.7	62.3	153.5	.0	.0
Total	11.3	.0	3.0	.7	62.3	153.5	.0	.0
Trawl								
Pollock								
bottom	279.6	123.9	4.7	.4	136.0	173.3	4.8	3.3
pelagic	120.6	780.6	1.2	.6	21.2	37.3	10.4	16.3
Sablefish	14.4	.0	.0	.2	.0	.5	.0	.3
Pacific cod	1,512.5	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	3,752.8	970.5	44.9	19.4	2,212.8	5,165.6	23.1	22.1
All gear								
Total	4,651.1	970.5	48.2	22.5	2,299.7	5,395.9	23.8	22.2

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								
1996								
Hook and line								
Sablefish	n.a.	.0	.1	.8	.0	.3	.0	.0
Pacific cod	788.2	.0	1.5	2.0	17.5	89.0	.0	.1
Turbot	91.4	.0	.0	.2	.0	.6	.0	.0
Rockfish	2.7	.0	.0	.0	.0	.0	.0	.0
Total	882.3	.0	1.5	2.9	17.5	89.9	.0	.1
Pot								
Pacific cod	20.8	.0	74.1	5.1	262.0	177.4	.0	.0
Total	20.8	.0	74.1	5.1	262.0	177.4	.0	.0
Trawl								
Pollock								
bottom	177.4	94.6	5.9	.0	79.9	26.2	5.7	4.2
pelagic	143.7	1,147.2	.1	.2	9.6	37.4	50.0	73.1
Sablefish	1.0	.0	.0	.0	.0	.2	.0	.0
Pacific cod	1,605.1	18.0	3.1	1.1	170.0	104.1	6.0	.2
Arrowtooth	3.0	.0	.0	.0	.4	.1	.0	.1
Flathd. sole	299.1	.7	.4	1.1	293.3	1,048.4	.0	.1
Rock sole	588.8	6.6	9.8	.8	414.3	170.5	.5	.0
Turbot	6.1	.1	.0	.2	1.1	5.6	.0	.0
Yellowfin	705.5	240.1	6.0	.9	741.2	1,965.5	.0	.2
Flat, other	43.9	4.8	.2	.5	123.9	284.6	.0	.0
Rockfish	50.1	.0	.0	6.9	.5	.1	.4	.2
Atka mack.	141.8	.4	5.5	.9	.6	.1	.5	.1
Total	3,765.5	1,512.6	31.0	12.7	1,836.0	3,643.5	63.2	78.0
All gear								
Total	4,668.6	1,512.6	106.6	20.7	2,115.5	3,910.8	63.2	78.1

Notes: Totals may include additional categories. The target, calculated by AFSC staff, based on processor, week, processing mode, NMFS area, and gear. International Pacific Halibut Commission discard mortality rates are used to estimate halibut mortality. The halibut Individual Fishing Quota program allows retention of halibut in the hook and line groundfish fisheries making true halibut bycatch numbers unavailable. No prohibited species bycatch numbers were available for the sablefish fishery in 1996.

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, 1995-96 (metric tons (t)).

	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	.409	.000	.152	.042
pelagic	.001	.001	.000	.005	.037	.029	.065	.915
Sablefish	.029	.000	.000	.153	.523	.002	.116	.116
Pacific cod	.010	.000	.000	.012	.330	.022	.033	.000
Arrowtooth	.034	.000	.000	.003	.698	.114	.023	.102
Flat hd. 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	.009	.000	.001	.012	.462	.094	.067	.297

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								
1996								
Hook and line								
Sablefish	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Pacific cod	n.a.	.000	.000	.000	.010	.027	.000	.000
Arrowtooth	n.a.	.000	.000	.000	.000	.091	.000	.000
Flathd. sole	n.a.	.000	.000	.000	.000	.000	.000	.000
Rockfish	n.a.	.000	.000	.015	.000	.000	.000	.000
Total	n.a.	.000	.000	.001	.004	.012	.000	.000
Pot								
Sablefish	.000	.000	.000	.000	.000	.000	.000	.000
Pacific cod	.001	.000	.001	.000	5.821	.141	.000	.000
Total	.001	.000	.001	.000	5.793	.140	.000	.000
Trawl								
Pollock								
bottom	.002	.000	.000	.004	.026	.017	.344	.209
pelagic	.000	.000	.000	.000	.001	.000	.217	.036
Sablefish	.024	.000	.000	.000	.043	.122	.187	.000
Pacific cod	.006	.000	.000	.008	1.615	.002	.019	.006
Arrowtooth	.028	.000	.000	.000	4.568	.004	.012	.004
Flathd. sole	.025	.000	.016	.000	.880	.000	.068	.025
Rex sole	.019	.000	.000	.014	.092	.000	.171	.035
Flat deep	.038	.000	.000	.004	.353	.203	.027	.029
Flat shallow	.043	.000	.009	.000	1.233	.010	.008	.004
Rockfish	.009	.000	.000	.054	.222	.032	.014	.008
Atka mack.	.006	.000	.000	.000	.000	.000	.000	.113
Total	.012	.000	.001	.010	.946	.010	.097	.026
All gear								
Total	.010	.000	.001	.008	1.098	.018	.077	.020

Notes: Totals may include additional categories. The target, calculated by AFSC staff, based on processor, week, processing mode, NMFS area, and gear. International Pacific Halibut Commission discard mortality rates are used to estimate halibut mortality. The halibut Individual Fishing Quota program allows retention of halibut in the hook and line groundfish fisheries making true halibut bycatch numbers unavailable. No prohibited species bycatch numbers were available for the sablefish fishery in 1996.

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, 1995-96 (metric tons (t)).

	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	.140	.000	.000	.000	.000	.000	.000	.000
Turbot	.026	.000	.016	.127	.007	.205	.000	.003
Rockfish	.071	.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	.038	.003	1.112	1.417	.039	.027
pelagic	.000	.001	.001	.000	.018	.032	.009	.014
Sablefish	.071	.000	.000	1.230	.000	2.529	.000	1.663
Pacific cod	.013	.000	.031	.008	2.104	.397	.061	.006
Arrowtooth	.002	.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

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								
1996								
Hook and line								
Sablefish	n.a.	.000	.023	.262	.001	.108	.000	.001
Pacific cod	.007	.000	.013	.018	.160	.814	.000	.001
Turbot	.022	.000	.004	.045	.003	.140	.000	.000
Rockfish	.054	.000	.005	.228	.000	.078	.000	.000
Total	.008	.000	.013	.025	.151	.772	.000	.001
Pot								
Pacific cod	.001	.000	2.205	.153	7.796	5.280	.000	.000
Total	.001	.000	2.203	.153	7.789	5.275	.000	.000
Trawl								
Pollock								
bottom	.001	.001	.047	.000	.636	.208	.045	.033
pelagic	.000	.001	.000	.000	.009	.035	.047	.069
Sablefish	.010	.000	.000	.000	.000	1.899	.000	.000
Pacific cod	.014	.000	.028	.010	1.523	.933	.054	.002
Arrowtooth	.052	.000	.000	.000	7.550	2.287	.000	1.108
Flathd. sole	.012	.000	.016	.043	11.826	42.273	.000	.004
Rock sole	.013	.000	.208	.017	8.838	3.636	.011	.000
Turbot	.008	.000	.000	.324	1.411	7.249	.000	.000
Yellowfin	.004	.001	.035	.005	4.279	11.348	.000	.001
Flat, other	.005	.001	.023	.055	13.544	31.121	.001	.000
Rockfish	.003	.000	.000	.352	.027	.007	.022	.009
Atka mack.	.001	.000	.046	.008	.005	.001	.004	.001
Total	.002	.001	.018	.007	1.081	2.145	.037	.046
All gear								
Total	.003	.001	.058	.011	1.144	2.116	.034	.042

Notes: Totals may include additional categories. The target, calculated by AFSC staff, based on processor, week, processing mode, NMFS area, and gear. International Pacific Halibut Commission discard mortality rates are used to estimate halibut mortality. The halibut Individual Fishing Quota program allows retention of halibut in the hook and line groundfish fisheries making true halibut bycatch numbers unavailable. No prohibited species bycatch numbers were available for the sablefish fishery in 1996.

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, 1992-96
(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									
1992	45	10	228	123	14	1,858	169	25	2,086
1993	39	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
1996	30	12	163	116	34	1,699	147	46	1,861
Pollock									
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
1996	0	0	51	3	0	1,219	3	0	1,271
Sablefish									
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
1996	16	0	2	1	0	0	17	0	2
Pacific cod									
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
1996	10	12	46	95	33	113	105	45	159
Flatfish									
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
1996	1	0	42	8	0	225	9	0	268
Rockfish									
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
1996	2	0	16	0	0	23	3	0	40
Atka mackerel									
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
1996	0	-	2	0	0	104	0	0	105

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, 1992-96 (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									
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
1996	60	145	205	1,386	463	1,849	1,445	608	2,054
Pollock									
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
1996	3	49	51	843	379	1,222	846	428	1,274
Sablefish									
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
1996	3	15	18	1	1	1	4	16	20
Pacific cod									
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
1996	13	55	68	177	63	241	191	118	309
Flatfish									
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
1996	26	17	43	217	17	234	243	34	277
Rockfish									
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
1996	12	6	18	24	0	24	36	7	42
Atka mackerel									
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
1996	1	0	2	104	0	104	105	0	106

Note: Processor category, at-sea and on-shore, refers 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, **1992-96**
(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									
1992	118	163	3	182	1,811	3	300	1,974	6
1993	124	137	0	197	1,691	0	321	1,828	0
1994	107	127	1	196	1,725	26	303	1,852	28
1995	88	124	7	102	1,717	108	190	1,842	115
1996	97	108	1	71	1,693	84	168	1,801	85
Pollock									
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	44	64	0	57	1,328	4	100	1,392	4
1995	26	48	0	43	1,257	27	69	1,305	27
1996	24	27	0	16	1,158	48	40	1,185	49
Sablefish									
1992	13	10	0	1	1	0	14	11	0
1993	16	9	0	1	2	0	16	11	0
1994	14	8	0	1	2	0	15	10	0
1995	10	10	1	0	1	0	10	12	1
1996	10	8	0	0	1	0	10	9	0
Pacific cod									
1992	35	43	3	31	173	2	65	215	5
1993	33	23	0	27	141	0	60	164	0
1994	29	18	0	31	157	6	60	175	6
1995	37	29	2	29	200	16	66	230	18
1996	38	30	0	27	202	12	65	232	12
Flatfish									
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	180	11	76	202	11
1995	11	21	0	16	180	36	27	201	37
1996	18	25	0	11	200	23	29	225	23
Rockfish									
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
1996	5	14	0	2	22	0	6	36	0
Atka mackerel									
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
1996	0	1	0	13	91	0	13	92	0

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, Alaska Commercial Fisheries Entry Commission 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, 1992-96 (\$ millions).

Species/Year	Gulf of Alaska			Bering Sea and Aleutian			All Alaska		
	Fixed	Trawl	Total	Fixed	Trawl	Total	Fixed	Trawl	Total
All groundfish									
1992	60.1	74.0	134.1	80.8	442.0	522.8	140.9	516.0	656.9
1993	58.9	42.4	101.3	53.4	271.1	324.5	112.3	313.5	425.8
1994	70.7	37.7	108.4	62.2	294.6	356.8	132.9	332.3	465.2
1995	96.6	49.2	145.8	74.5	373.4	447.9	171.1	422.5	593.7
1996	82.2	43.1	125.2	80.6	332.5	413.1	162.8	375.6	538.3
Pollock									
1992	.0	23.0	23.0	.0	353.1	353.1	.0	376.1	376.1
1993	.0	17.0	17.0	.0	184.1	184.1	.0	201.1	201.1
1994	.0	16.6	16.6	.0	206.0	206.1	.0	222.6	222.6
1995	.0	16.1	16.2	.1	265.9	266.0	.1	282.0	282.2
1996	.0	10.3	10.3	.1	223.4	223.5	.1	233.7	233.8
Sablefish									
1992	44.9	4.2	49.1	5.5	.1	5.6	50.4	4.3	54.8
1993	47.8	3.1	50.9	5.8	.1	5.9	53.7	3.2	56.9
1994	62.1	4.2	66.4	4.6	.6	5.3	66.7	4.9	71.6
1995	80.0	5.6	85.5	6.2	.8	7.0	86.2	6.4	92.5
1996	68.4	5.6	74.1	4.7	.3	4.9	73.1	5.9	79.0
Pacific cod									
1992	13.1	27.9	41.1	74.3	28.3	102.6	87.4	56.3	143.7
1993	9.3	11.1	20.4	43.5	23.9	67.4	52.9	34.9	87.8
1994	6.8	9.0	15.8	55.8	18.0	73.7	62.6	26.9	89.5
1995	14.2	16.3	30.5	65.0	27.4	92.4	79.2	43.7	122.9
1996	11.1	14.1	25.2	72.2	29.7	101.9	83.3	43.8	127.1
Flatfish									
1992	.0	7.0	7.1	.2	41.1	41.3	.3	48.1	48.4
1993	.0	5.0	5.1	2.9	38.0	40.8	2.9	43.0	45.9
1994	.0	3.4	3.4	1.0	53.2	54.2	1.0	56.6	57.6
1995	.0	4.9	5.0	1.6	54.8	56.4	1.7	59.7	61.4
1996	.0	8.1	8.1	2.2	46.2	48.4	2.3	54.3	56.6
Rockfish									
1992	1.9	7.7	9.6	.7	5.3	6.0	2.6	13.0	15.7
1993	1.7	4.0	5.6	.7	5.5	6.1	2.3	9.4	11.8
1994	1.7	3.7	5.3	.5	4.0	4.5	2.2	7.6	9.8
1995	2.3	6.0	8.3	.5	5.4	5.9	2.8	11.5	14.2
1996	2.5	4.3	6.8	.5	4.8	5.2	3.0	9.1	12.1
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	-	.2	.2	.0	18.9	18.9	.0	19.1	19.1
1996	-	.4	.4	.0	27.7	27.7	.0	28.2	28.2

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**, Pacific Fishery Information Network prices, Alaska Department of Fish and Game 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, 1992-96 (\$ 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	37.9	96.2	134.1	403.7	119.1	522.8	441.6	215.3	656.9
1993	22.2	79.2	101.3	249.6	74.9	324.5	271.8	154.0	425.8
1994	19.3	89.1	108.4	272.1	84.7	356.8	291.4	173.8	465.2
1995	28.9	116.8	145.8	337.6	110.3	447.9	366.6	227.1	593.7
1996	23.6	101.7	125.2	315.9	97.2	413.1	339.5	198.9	538.3
Pollock									
1992	1.7	21.3	23.0	248.2	105.0	353.1	249.8	126.3	376.1
1993	.1	16.9	17.0	123.3	60.8	184.1	123.4	77.7	201.1
1994	.1	16.5	16.6	138.0	68.1	206.1	138.1	84.6	222.6
1995	.5	15.7	16.2	181.1	84.9	266.0	181.6	100.5	282.2
1996	.2	10.2	10.3	152.1	71.3	223.5	152.3	81.5	233.8
Sablefish									
1992	10.0	39.2	49.1	3.6	2.0	5.6	13.6	41.2	54.8
1993	9.5	41.4	50.9	4.7	1.3	5.9	14.2	42.7	56.9
1994	11.0	55.4	66.4	4.2	1.0	5.3	15.2	56.4	71.6
1995	13.9	71.7	85.5	3.9	3.1	7.0	17.8	74.8	92.5
1996	10.5	63.5	74.1	2.8	2.1	4.9	13.4	65.6	79.0
Pacific cod									
1992	12.0	29.1	41.1	92.4	10.2	102.6	104.4	39.3	143.7
1993	3.9	16.5	20.4	55.2	12.3	67.4	59.0	28.8	87.8
1994	2.2	13.6	15.8	61.1	12.6	73.7	63.3	26.3	89.5
1995	5.9	24.6	30.5	73.8	18.6	92.4	79.8	43.1	122.9
1996	4.9	20.3	25.2	80.0	21.8	101.9	84.9	42.2	127.1
Flatfish									
1992	2.5	4.5	7.1	39.9	1.5	41.3	42.4	6.0	48.4
1993	2.3	2.8	5.1	40.3	.5	40.8	42.6	3.3	45.9
1994	1.6	1.9	3.4	51.3	2.9	54.2	52.9	4.7	57.6
1995	2.5	2.4	5.0	53.0	3.4	56.4	55.5	5.9	61.4
1996	4.1	4.0	8.1	46.8	1.6	48.4	50.9	5.7	56.6
Rockfish									
1992	7.6	2.0	9.6	5.6	.4	6.0	13.2	2.4	15.7
1993	4.2	1.5	5.6	6.0	.1	6.1	10.2	1.5	11.8
1994	3.6	1.7	5.3	4.4	.1	4.5	8.1	1.8	9.8
1995	6.0	2.3	8.3	5.6	.3	5.9	11.6	2.6	14.2
1996	3.5	3.4	6.8	5.1	.1	5.2	8.6	3.5	12.1
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	.2	.0	.2	18.9	.0	18.9	19.1	.0	19.1
1996	.4	.0	.4	27.7	.0	27.7	28.2	.0	28.2

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, refers 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**, Pacific Fishery Information Network prices, Alaska Department of Fish and Game 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, 1992-96 (\$ millions).

Species/Year	Gulf of Alaska			Bering Sea and Aleutian			All Alaska		
	Alaska	Other	Unknown	Alaska	Other	Unknown	Alaska	Other	Unknown
All groundfish									
1992	64.0	68.2	1.9	54.0	467.9	.9	118.0	536.1	2.8
1993	56.8	44.3	.2	48.8	275.6	.0	105.7	319.9	.2
1994	60.9	43.1	4.4	43.2	299.3	14.3	104.1	342.4	18.7
1995	64.7	69.0	12.1	28.8	388.5	30.6	93.4	457.4	42.8
1996	62.6	58.4	4.2	23.0	365.7	24.4	85.6	424.2	28.6
Pollock									
1992	8.4	14.6	.1	15.8	337.2	.1	24.1	351.8	.2
1993	7.1	9.9	.0	6.6	177.5	.0	13.7	187.3	.0
1994	6.2	9.3	1.1	5.3	195.1	5.7	11.4	204.4	6.8
1995	5.4	10.4	.4	8.3	251.6	6.1	13.7	262.0	6.5
1996	4.5	5.0	.8	2.5	208.7	12.3	7.0	213.7	13.1
Sablefish									
1992	28.4	20.4	.3	1.7	3.9	.0	30.1	24.3	.3
1993	32.7	18.1	.2	1.3	4.7	.0	33.9	22.8	.2
1994	41.6	22.3	2.4	1.5	3.6	.1	43.1	25.9	2.6
1995	40.1	37.8	7.7	1.7	4.6	.7	41.8	42.4	8.4
1996	39.1	33.2	1.7	1.5	3.4	.0	40.7	36.6	1.8
Pacific cod									
1992	17.8	21.7	1.5	18.2	83.7	.7	36.0	105.4	2.3
1993	11.8	8.6	.0	12.9	54.5	.0	24.7	63.1	.0
1994	9.4	5.9	.4	12.8	57.1	3.8	22.3	63.0	4.2
1995	15.5	12.6	2.4	11.6	73.9	6.9	27.1	86.5	9.3
1996	12.9	11.1	1.3	12.6	81.5	7.8	25.5	92.6	9.1
Flatfish									
1992	3.0	4.0	.0	10.4	30.9	.0	13.5	34.9	.0
1993	2.3	2.8	.0	15.6	25.2	.0	17.9	28.0	.0
1994	1.5	1.9	.0	14.9	35.8	3.4	16.4	37.7	3.5
1995	1.9	2.8	.3	4.1	41.9	10.4	6.0	44.7	10.7
1996	3.6	4.3	.2	2.5	41.7	4.3	6.0	46.0	4.5
Rockfish									
1992	3.8	5.8	.0	2.7	3.3	.0	6.5	9.1	.0
1993	2.2	3.4	.0	2.5	3.6	.0	4.8	7.0	.0
1994	1.8	3.2	.3	2.1	2.0	.4	4.0	5.3	.6
1995	1.7	5.3	1.2	.4	4.8	.7	2.1	10.1	1.9
1996	2.4	4.4	.1	.2	5.0	.0	2.6	9.4	.1
Atka mackerel									
1992	2.1	.9	.0	5.1	8.7	.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	.2	.0	2.4	11.1	5.4	2.4	11.3	5.5
1996	.0	.4	.0	3.6	24.2	.0	3.6	24.6	.0

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**, Pacific Fishery Information Network prices, Alaska Department of Fish and Game 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 22.--Ex-vessel prices* in the groundfish fisheries off Alaska by area, gear, and species, 1992-96 (\$/lb, round weight).

	Gulf of Alaska		Bering Sea and Aleutian		All Alaska
	Fixed	Trawl	Fixed	Trawl	All gear****
Pollock					
1992	.134 ***	.134	.123 ***	.123	.123
1993	.077 ***	.077	.066 ***	.066	.066
1994	.074 ***	.074	.073 ***	.073	.073
1995	.112 ***	.112	.098 ***	.098	.099
1996	.102 ***	.102	.089 ***	.089	.089
Sablefish					
1992	1.005	.906	1.256	.768 **	1.016
1993	.988	.708	1.015	.661 **	.969
1994	1.415	1.032	1.128	.654 **	1.349
1995	1.997	1.722	1.874	1.018 **	1.953
1996	1.957	1.704	1.889	.893 **	1.924
Pacific cod					
1992	.239	.247	.299	.187	.253
1993	.236	.153	.310	.163	.220
1994	.199	.142	.277	.117	.198
1995	.242	.190	.250	.148	.208
1996	.231	.165	.265	.153	.212
Flatfish					
1992	.218 ***	.218	.240	.141 **	.149
1993	.150 ***	.150	.208	.156 **	.158
1994	.148 ***	.148	.255	.169 **	.169
1995	.173 ***	.173	.279	.180 **	.181
1996	.159 ***	.159	.270	.151 **	.155
Rockfish					
1992	.387	.208 **	.486	.185 **	.216
1993	.440	.169 **	.478	.156 **	.185
1994	.463	.172 **	.655	.149 **	.187
1995	.618	.200 **	.722	.217 **	.239
1996	.623	.153 **	.765	.141 **	.181
Atka mackerel					
1992	-	.167 **	.158 ***	.158 **	.160
1993	-	.201 **	.177 ***	.177 **	.179
1994	-	.122 **	.102 ***	.102 **	.103
1995	-	.181 **	.129 ***	.129 **	.129
1996	-	.158 **	.145 ***	.145 **	.145

* 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.

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

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

Source: Blend **estimates**, Pacific Fishery Information Network prices, Alaska Department of Fish and **Game** 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, 1992-96.

	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
Gear/Year						
Hook and line						
1992	1,811	54,698	163	22,076	1,848	64,050
1993	1,515	48,571	115	19,086	1,537	53,068
1994	1,636	54,073	138	17,822	1,659	57,218
1995	1,354	43,043	175	18,395	1,406	49,157
1996	1,254	41,845	158	16,902	1,302	47,584
Pot						
1992	226	11,822	73	13,584	277	22,598
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
1996	148	9,144	103	14,416	219	20,040
Trawl						
1992	233	48,547	201	87,268	300	93,405
1993	193	37,107	182	80,259	282	87,786
1994	188	34,268	164	77,830	257	84,586
1995	220	49,797	181	80,226	265	86,045
1996	202	40,378	192	78,029	280	83,628
All gear						
1992	2,118	104,833	408	115,193	2,243	162,352
1993	1,718	84,334	309	98,995	1,837	139,097
1994	1,822	86,881	335	98,381	1,933	141,892
1995	1,643	98,685	461	111,928	1,793	148,238
1996	1,508	85,314	439	107,138	1,686	142,218

Note : Registered net tons totals exclude mainly smaller vessels for which data were unavailable. The percent of vessels missing are: 1992 - 8%, 1993 - 7%, 1994 - 6%, 1995 - 5%, 1996 - 7%

Source: Blend estimates, fish tickets, Observer Program data, Federal permit file, Alaska Commercial Fisheries Entry Commission 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, 1992-96.

	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
Gear/Year									
Hook and line									
1992	788	650	373	26	58	79	789	647	412
1993	606	555	354	10	31	74	607	557	373
1994	661	644	331	20	34	84	658	639	362
1995	680	392	282	38	67	70	682	410	314
1996	592	371	291	40	59	59	604	382	316
Pot									
1992	50	81	95	9	22	42	54	92	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
1996	7	43	98	5	16	82	11	48	160
Trawl									
1992	0	8	225	1	4	196	1	8	291
1993	1	10	182	0	2	180	0	9	273
1994	2	4	182	0	1	163	1	3	253
1995	1	5	214	0	1	180	1	1	263
1996	4	10	188	0	4	188	4	9	267
All gear									
1992	772	674	672	35	71	302	774	672	797
1993	591	550	577	12	35	262	592	552	693
1994	648	626	548	21	40	274	645	619	669
1995	654	417	572	44	109	308	659	449	685
1996	578	384	546	40	76	323	588	393	705

Source: Blend estimates, fish tickets, Observer Program data, Federal permit file, Alaska Commercial Fisheries Entry Commission 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, 1992-96.

	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												
1992	1649	209	7	0	68	75	11	0	1660	239	15	0
1993	1367	148	0	0	36	36	3	0	1375	163	3	0
1994	1455	190	2	0	66	48	5	0	1470	212	6	0
1995	1216	199	9	0	91	136	19	0	1251	255	23	0
1996	1116	179	7	0	64	125	17	0	1143	222	18	0
Trawl												
1992	63	109	15	0	6	97	29	1	66	131	29	1
1993	64	86	9	0	10	87	22	0	71	126	22	0
1994	62	82	18	0	3	77	26	0	62	110	26	0
1995	58	108	20	0	3	95	22	1	59	122	24	1
1996	63	82	17	0	6	91	31	0	66	115	32	0
All gear												
1992	1684	297	22	0	74	167	40	1	1695	344	44	1
1993	1409	218	9	0	45	123	25	0	1423	273	25	0
1994	1483	247	20	0	69	125	31	0	1498	297	32	0
1995	1241	286	29	0	94	225	40	1	1275	349	46	1
1996	1147	245	24	0	69	216	47	0	1176	320	49	0
Catcher-processors												
Fixed												
1992	3	24	23	0	0	28	46	0	3	30	48	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
1996	4	13	11	0	1	21	32	0	4	21	32	0
Trawl												
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
1996	0	7	28	2	0	7	34	21	0	8	34	21
All gear												
1992	3	31	49	6	0	33	79	19	3	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
1996	4	19	39	2	1	27	65	21	4	27	65	21
All catchers												
All gear												
1992	1684	323	70	6	74	198	110	20	1695	373	114	20
1993	1410	247	52	5	45	157	85	21	1424	302	85	21
1994	1484	271	58	4	71	156	86	21	1499	321	87	21
1995	1243	307	63	8	95	248	96	22	1277	371	101	22
1996	1149	258	63	2	70	232	108	21	1178	334	110	21

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												
1992	40	76	155	-	42	84	148	-	40	79	150	-
1993	40	74	-	-	47	80	127	-	40	76	127	-
1994	40	75	137	-	42	83	141	-	40	77	142	-
1995	41	79	132	-	44	87	140	-	41	83	139	-
1996	42	77	139	-	43	89	137	-	42	83	137	-
Trawl												
1992	50	88	154	-	50	96	159	363	50	90	159	363
1993	51	87	146	-	36	97	158	-	49	91	158	-
1994	51	91	151	-	55	98	156	-	51	92	156	-
1995	53	94	157	-	51	99	161	280	53	94	161	280
1996	55	93	140	-	49	99	151	-	54	95	150	-
All gear												
1992	40	80	154	-	43	91	156	363	40	83	156	363
1993	40	79	146	-	45	92	154	-	40	83	154	-
1994	41	80	150	-	43	92	154	-	41	83	154	-
1995	42	85	149	-	44	92	151	280	41	87	150	280
1996	42	82	140	-	44	93	146	-	42	87	145	-
Catcher-processors												
Fixed												
1992	52	98	154	-	-	101	159	-	52	99	161	-
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	-
1996	52	96	153	-	58	100	156	-	52	100	156	-
Trawl												
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
1996	-	100	188	271	-	103	188	290	-	100	188	290
All gear												
1992	52	99	166	300	-	102	171	296	52	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
1996	52	99	179	271	58	101	172	290	52	101	172	290
All catchers												
All gear												
1992	40	82	163	300	43	92	166	299	40	85	166	299
1993	40	82	164	265	45	94	168	293	40	85	168	293
1994	41	82	161	264	43	94	168	288	41	84	167	288
1995	42	86	161	272	44	93	165	287	41	88	164	287
1996	42	84	164	271	44	94	162	290	42	88	161	290

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												
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	-
1996	25	80	165	-	26	100	177	-	25	89	174	-
Trawl												
1992	50	118	299	-	36	131	333	2196	49	122	333	2196
1993	52	119	213	-	28	131	336	-	48	124	336	-
1994	53	125	244	-	80	132	273	-	53	126	273	-
1995	55	125	295	-	65	132	297	898	55	125	317	898
1996	53	118	172	-	39	129	224	-	51	122	222	-
All gear												
1992	21	94	265	-	28	114	309	2196	21	100	296	2196
1993	22	94	213	-	29	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
1996	26	92	170	-	27	112	209	-	26	101	206	-
Catcher-processors												
Fixed												
1992	39	142	364	-	-	169	370	-	39	163	381	-
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	-
1996	36	120	456	-	52	132	374	-	36	132	374	-
Trawl												
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
1996	-	128	656	2206	-	127	608	1796	-	129	608	1796
All gear												
1992	39	137	465	1939	-	162	507	2042	39	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
1996	36	122	599	2206	52	131	498	1796	36	131	498	1796
All catchers												
All gear												
1992	21	98	404	1939	28	122	441	2050	21	105	432	2050
1993	22	99	459	1452	29	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	29	119	432	1750	23	108	420	1750
1996	26	94	436	2206	27	114	383	1796	26	103	379	1796

Source: Blend **estimates**, fish tickets, Observer Program data, Federal permit file, Alaska **Commercial** Fisheries Entry Commission 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, 1992-96.

	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									
1992	98	2,032	2,118	169	263	408	177	2,102	2,243
1993	88	1,638	1,718	167	177	309	171	1,712	1,837
1994	81	1,754	1,822	157	213	335	161	1,820	1,933
1995	83	1,573	1,643	176	345	461	180	1,683	1,793
1996	78	1,444	1,508	160	328	439	163	1,579	1,686
Hook and line									
Sablefish									
1992	26	1,068	1,088	16	63	79	31	1,070	1,095
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	665	686	15	78	90	28	670	692
1996	18	634	649	18	66	82	22	637	655
Pacific cod									
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	506	526	44	57	100	46	550	595
1996	16	335	348	39	51	88	41	377	413
Flatfish									
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
1996	1	2	3	32	20	52	33	22	55
Rockfish									
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	584	584	3	18	21	4	597	600
1996	4	617	620	4	12	16	8	625	632
All groundfish									
1992	47	1,771	1,811	59	105	163	67	1,789	1,848
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	1,326	1,354	47	136	175	51	1,366	1,406
1996	28	1,234	1,254	44	122	158	47	1,267	1,302
Pot									
Pacific cod									
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
1996	0	148	148	13	92	100	13	208	216
All groundfish									
1992	4	222	226	19	54	73	19	258	277
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
1996	0	148	148	14	95	103	14	211	219

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									
1992	12	118	130	86	94	166	88	146	217
1993	1	99	100	94	82	153	94	139	207
1994	2	115	117	79	76	135	79	131	188
1995	10	129	138	99	84	153	99	139	196
1996	6	96	101	81	92	158	81	137	200
Sablefish									
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
1996	1	1	2	2	0	2	2	1	3
Pacific cod									
1992	27	140	165	49	66	111	56	174	225
1993	10	120	130	51	70	120	53	171	223
1994	7	114	121	39	70	107	40	167	205
1995	17	138	154	59	72	123	62	172	225
1996	18	107	125	65	97	146	67	180	231
Flatfish									
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
1996	20	50	70	38	13	51	42	62	104
Rockfish									
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
1996	17	29	46	15	0	15	21	29	50
Atka mack.									
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
1996	9	0	9	17	0	17	18	0	18
All groundfish									
1992	50	186	233	109	113	201	110	214	300
1993	37	157	193	111	102	182	112	205	282
1994	27	161	188	98	94	164	99	186	257
1995	44	181	220	123	104	181	123	194	265
1996	51	157	202	108	119	192	109	209	280

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, Observer Program data, Federal permit file, Alaska Commercial Fisheries Entry Commission 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, 1992-96.

	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									
1992	1,623	459	35	109	293	6	1,645	557	41
1993	1,349	357	9	64	243	1	1,363	463	10
1994	1,386	379	55	87	227	18	1,405	467	60
1995	1,201	349	73	132	297	31	1,236	455	84
1996	1,095	327	72	122	288	28	1,133	451	91
Hook and line									
Sablefish									
1992	831	244	13	30	49	0	834	248	13
1993	703	207	6	20	52	1	706	216	7
1994	845	254	37	18	43	2	845	257	37
1995	513	141	32	30	55	5	514	146	32
1996	473	147	29	32	49	1	476	150	29
Pacific cod									
1992	634	102	6	51	73	0	663	146	6
1993	415	42	1	16	46	0	425	76	1
1994	292	27	5	42	43	6	316	56	9
1995	458	51	17	52	41	7	494	78	23
1996	303	31	14	43	37	8	337	54	22
Flatfish									
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
1996	3	0	0	18	32	2	21	32	2
Rockfish									
1992	567	71	9	4	1	0	571	71	9
1993	528	60	5	6	13	0	533	70	5
1994	517	68	17	1	4	0	518	72	17
1995	499	59	26	4	16	1	501	73	26
1996	521	79	20	4	12	0	523	89	20
All groundfish									
1992	1,464	318	28	62	101	0	1,479	340	28
1993	1,248	258	8	32	82	1	1,254	273	9
1994	1,295	294	46	57	71	8	1,310	300	48
1995	1,068	206	59	78	86	11	1,097	226	62
1996	967	212	56	71	77	9	992	227	64
Pot									
Pacific cod									
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
1996	124	16	8	35	59	6	139	65	12
All groundfish									
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
1996	124	16	8	38	59	6	142	65	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									
1992	41	87	2	26	136	4	54	157	6
1993	43	57	0	25	128	0	58	149	0
1994	43	67	7	14	113	8	48	131	9
1995	38	94	6	17	127	9	40	145	11
1996	38	55	8	17	131	10	45	142	13
Sablefish									
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
1996	1	1	0	0	2	0	1	2	0
Pacific cod									
1992	80	82	3	13	96	2	88	132	5
1993	73	57	0	11	109	0	82	141	0
1994	72	44	5	7	94	6	75	120	10
1995	71	75	8	14	101	8	77	133	15
1996	61	58	6	14	124	8	70	148	13
Flatfish									
1992	28	35	0	11	79	0	36	94	0
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
1996	33	34	3	4	45	2	34	65	5
Rockfish									
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
1996	20	25	1	1	14	0	21	28	1
Atka mack.									
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
1996	1	8	0	1	16	0	1	17	0
All groundfish									
1992	93	134	5	35	160	6	102	187	11
1993	86	105	0	27	155	0	94	188	0
1994	82	95	10	19	136	8	84	161	11
1995	76	129	13	22	146	13	79	168	18
1996	77	111	11	19	159	13	80	181	18

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, Observer Program data, Federal permit file Alaska Commercial Fisheries Entry Commission 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, 1992-96.

	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													
1992	97	185	316	215	919	1090	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	200	283	521	445	230	247	368	275	181	4	1326
1996	135	136	308	290	504	401	167	253	302	256	141	48	1234
Pot													
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
1996	104	88	101	13	14	2	1	1	1	2	0	0	148
Trawl													
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
1996	84	96	109	33	16	50	33	29	63	45	21	2	164
All gear													
1992	217	424	625	386	941	1140	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	472	327	549	524	294	249	373	387	189	12	1578
1996	314	310	509	336	532	449	201	282	365	303	161	50	1451
Catcher-processors													
Hook and line													
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
1996	8	15	12	4	10	12	5	3	4	4	4	0	28
Pot													
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													
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
1996	1	5	20	16	4	0	21	13	2	12	6	0	37
All gear													
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
1996	9	19	32	20	14	12	26	16	6	16	10	0	64

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													
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
1996	8	7	7	11	33	46	44	44	17	21	12	11	122
Pot													
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
1996	2	1	41	60	50	32	7	12	13	23	10	14	95
Trawl													
1992	72	96	96	56	42	80	94	101	82	3	0	17	139
1993	52	93	83	81	32	4	2	85	89	73	0	0	119
1994	79	80	76	60	38	7	5	84	91	72	6	1	107
1995	69	92	92	74	26	7	1	102	110	19	1	0	121
1996	76	103	110	82	46	4	0	14	111	106	41	0	131
All gear													
1992	80	102	102	86	84	126	150	183	94	5	0	17	288
1993	53	97	90	108	65	25	25	107	94	73	0	1	194
1994	80	81	89	87	76	29	31	120	117	112	24	17	226
1995	82	113	152	140	100	62	49	143	166	48	29	26	360
1996	86	111	158	153	126	81	51	70	140	149	63	24	340
Catcher-processors													
Hook and line													
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
1996	30	26	35	34	40	6	4	4	31	35	27	0	44
Pot													
1992	0	0	0	0	10	11	13	15	12	0	0	0	19
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
1996	0	0	7	8	10	11	7	7	7	7	2	4	14
Trawl													
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
1996	57	60	59	36	23	20	17	43	53	49	12	0	62
All gear													
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
1996	86	85	101	78	72	37	27	54	91	90	41	4	114

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													
1992	99	185	319	234	927	1110	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	209	302	550	469	255	271	391	289	197	12	1366
1996	141	142	314	301	525	430	193	282	317	273	151	59	1267
Pot													
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
1996	105	88	137	62	52	34	8	12	14	23	10	14	211
Trawl													
1992	144	198	197	124	67	121	130	121	82	60	21	19	238
1993	87	188	190	119	36	65	65	108	93	117	21	8	219
1994	157	180	182	90	48	59	69	101	94	110	12	1	199
1995	136	171	190	102	49	84	65	102	110	109	1	0	206
1996	157	188	191	113	62	53	33	42	143	138	61	2	218
All gear													
1992	292	503	666	457	1007	1243	400	270	629	477	61	45	2124
1993	162	376	449	218	869	1026	150	160	569	269	61	39	1726
1994	287	383	402	178	900	989	152	173	1038	298	66	63	1832
1995	380	413	571	452	633	567	323	382	523	418	216	38	1693
1996	394	408	632	476	633	512	234	335	472	433	221	74	1588
Catcher-processors													
Hook and line													
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
1996	35	35	38	37	42	17	8	7	35	38	27	0	47
Pot													
1992	1	0	0	0	10	11	13	15	12	0	0	0	19
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
1996	0	0	7	8	10	11	7	7	7	7	2	4	14
Trawl													
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
1996	57	61	60	46	25	20	30	44	53	52	17	0	63
All gear													
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
1996	91	94	105	91	76	48	44	58	94	96	46	4	117

Source: Blend estimates, fish tickets, Observer Program data, Federal permit file, Alaska **Commercial** Fisheries Entry Commission 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, 1992-96.

	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									
1992	2,099	435	-	49	58	-	2,147	493	-
1993	1,639	252	-	54	41	-	1,693	293	-
1994	2,081	366	-	41	34	-	2,122	400	-
1995	1,403	464	2	67	82	-	1,470	546	2
1996	1,549	467	3	56	76	-	1,605	544	3
Pacific cod									
1992	1,891	112	1	119	35	-	2,010	146	1
1993	964	49	-	12	0	-	976	49	-
1994	712	44	-	245	8	-	958	52	-
1995	1,069	97	-	360	4	-	1,428	101	-
1996	935	51	-	268	7	0	1,202	58	0
Flatfish									
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	-
1996	1	-	-	11	14	-	12	14	-
Rockfish									
1992	1,344	37	-	3	1	-	1,347	38	-
1993	1,191	30	-	5	2	-	1,196	32	-
1994	1,273	25	-	1	1	-	1,274	26	-
1995	1,406	23	-	7	11	-	1,413	34	-
1996	1,471	33	-	3	10	1	1,474	43	1
All groundfish									
1992	5,348	583	1	172	95	-	5,519	678	1
1993	3,797	331	-	109	57	-	3,905	388	-
1994	4,074	435	-	301	55	-	4,375	490	-
1995	3,930	588	2	440	105	-	4,370	693	2
1996	4,049	574	3	338	113	1	4,387	688	4
Pot									
Pacific cod									
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
1996	538	298	15	22	479	77	561	777	92
All groundfish									
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
1996	541	299	15	26	481	77	568	780	92

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									
1992	62	414	26	8	1,245	385	71	1,658	411
1993	79	488	27	8	861	320	87	1,349	348
1994	100	416	48	-	781	340	100	1,197	388
1995	91	301	39	4	934	248	95	1,235	288
1996	96	204	21	13	853	358	109	1,058	379
Pacific cod									
1992	403	368	16	2	288	40	405	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
1996	359	231	5	2	580	118	361	811	123
Flatfish									
1992	24	269	-	-	72	20	24	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
1996	88	282	-	-	16	9	88	298	9
Rockfish									
1992	-	5	-	-	2	-	-	7	-
1993	-	1	-	-	2	-	-	3	-
1994	-	4	1	-	-	-	-	4	1
1995	-	8	2	-	-	-	-	8	2
1996	5	65	-	-	-	-	5	65	-
All groundfish									
1992	490	1,059	42	10	1,615	448	500	2,674	490
1993	439	1,086	27	15	1,234	350	454	2,319	378
1994	458	917	51	11	1,193	417	469	2,110	468
1995	363	781	51	4	1,392	300	367	2,173	351
1996	551	797	28	15	1,449	485	566	2,246	513
All gear									
All groundfish									
1992	6,554	1,991	53	185	1,881	478	6,739	3,871	531
1993	4,586	1,578	27	124	1,339	363	4,710	2,917	391
1994	4,936	1,509	52	325	1,371	441	5,261	2,880	493
1995	5,008	1,710	62	512	1,882	370	5,520	3,592	432
1996	5,141	1,670	46	379	2,044	563	5,521	3,714	609

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. All groundfish include additional target categories.

Source: Blend estimates, fish tickets, Observer Program data, Federal permit file, Alaska Commercial Fisheries Entry Commission 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, 1992-96.

	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									
1992	5	100	18	-	114	11	5	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
1996	15	43	23	-	49	17	15	91	41
Pacific cod									
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
1996	-	56	6	-	198	583	-	254	589
Flatfish									
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
1996	0	-	-	3	41	28	3	41	28
Rockfish									
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
1996	2	1	0	-	1	2	2	2	2
All groundfish									
1992	18	232	67	-	552	684	18	784	751
1993	12	148	56	6	528	473	18	675	529
1994	16	120	42	15	526	554	31	646	596
1995	19	125	46	2	400	612	21	525	658
1996	17	99	29	3	290	631	20	389	660
Pot									
Pacific cod									
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
1996	-	-	-	-	62	153	-	62	153
All groundfish									
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
1996	-	-	-	-	63	157	-	63	157

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									
1992	3	0	2	8	303	358	11	303	360
1993	-	0	-	9	234	315	9	235	315
1994	-	-	0	-	223	303	-	223	303
1995	-	2	0	1	176	290	1	179	291
1996	-	0	0	-	189	278	-	189	278
Pacific cod									
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
1996	3	10	1	17	84	12	20	94	13
Flatfish									
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
1996	101	68	1	95	373	57	196	441	58
Rockfish									
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
1996	3	31	-	-	43	-	3	74	-
Atka mack.									
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
1996	1	2	-	-	183	8	1	185	8
All groundfish									
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
1996	107	112	2	115	874	355	222	986	357

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												
1992	18	322	255	7	-	671	1,990	456	18	993	2,245	463
1993	12	224	196	7	6	667	1,452	434	18	891	1,648	441
1994	16	186	145	2	15	609	1,471	404	31	795	1,616	406
1995	20	207	154	3	2	578	1,464	407	22	785	1,618	410
1996	17	207	142	2	3	468	1,661	355	20	674	1,803	357

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, area, and gear. All groundfish include additional target categories.

Source : Blend **estimates**, fish tickets, Observer Program data, Federal permit file, Alaska Commercial Fisheries Entry Commission 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, 1992-96
(1,000 metric tons product weight and million dollars).

	1992		1993		1994		1995		1996	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Pollock										
Whole fish	3.8	\$2.7	4.3	\$1.3	1.6	\$1.2	2.8	\$2.6	3.2	\$2.7
H&G	3.9	\$2.9	1.3	\$.7	.9	\$.7	.9	\$.7	.7	\$.5
Roe	17.5	\$200.9	11.9	\$126.4	11.8	\$134.0	15.9	\$217.5	14.5	\$176.2
Deep-skin fillets	-	-	-	-	19.5	\$49.0	34.9	\$87.9	36.8	\$100.1
Other fillets	42.3	\$112.7	68.0	\$130.3	35.3	\$70.2	24.7	\$59.8	23.4	\$53.0
Surimi	162.8	\$544.7	150.4	\$251.0	182.0	\$369.7	178.2	\$439.8	160.9	\$298.3
Minced fish	14.8	\$16.6	16.4	\$14.3	10.9	\$9.1	9.8	\$8.9	14.2	\$15.2
Fish meal	59.9	\$31.3	54.0	\$27.0	52.1	\$25.5	50.9	\$28.4	46.8	\$28.2
Other products	8.3	\$1.9	11.4	\$2.1	12.2	\$3.3	15.1	\$5.3	13.6	\$5.9
All products	313.4	\$913.9	317.7	\$553.0	326.2	\$662.7	333.2	\$851.0	314.0	\$680.0
Pacific cod										
Whole fish	7.3	\$6.3	10.2	\$9.1	5.2	\$4.4	3.7	\$5.2	8.1	\$8.7
H&G	68.3	\$114.8	37.3	\$60.2	51.8	\$85.7	60.9	\$91.3	57.7	\$98.2
Salted/split	4.7	\$15.9	6.6	\$16.3	4.2	\$6.4	7.6	\$18.5	10.8	\$23.6
Fillets	14.9	\$66.2	12.5	\$49.8	12.3	\$45.8	19.2	\$79.2	19.3	\$71.8
Other products	11.8	\$15.1	7.9	\$9.7	8.3	\$10.8	17.3	\$23.9	17.0	\$22.3
All products	107.0	\$218.3	74.5	\$145.1	81.8	\$153.1	108.7	\$218.1	113.0	\$224.7
Sablefish										
H&G	14.8	\$91.1	16.3	\$97.1	16.1	\$112.2	12.3	\$109.5	10.7	\$96.6
Other products	.3	\$.8	.1	\$.3	.6	\$3.2	.2	\$1.4	.1	\$.3
All products	15.1	\$91.9	16.4	\$97.4	16.7	\$115.4	12.6	\$111.0	10.8	\$96.9

Table 31.--Continued.

	1992		1993		1994		1995		1996	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Flatfish										
Whole fish	30.6	\$21.5	28.7	\$22.8	42.9	\$34.9	55.2	\$53.8	35.0	\$31.2
H&G	33.8	\$55.4	36.5	\$57.6	30.3	\$68.2	28.7	\$60.1	37.6	\$68.7
Kirimi	14.1	\$17.0	12.8	\$24.8	17.5	\$25.4	6.3	\$10.3	14.5	\$22.6
Fillets	3.2	\$10.5	2.0	\$9.3	1.6	\$7.6	2.1	\$10.2	2.4	\$11.8
Other products	2.0	\$1.7	1.3	\$.8	1.8	\$1.8	3.1	\$2.5	2.8	\$.9
All products	83.8	\$106.1	81.4	\$115.3	94.1	\$137.9	95.3	\$136.9	92.3	\$135.2
Rockfish										
Whole fish	2.2	\$2.5	5.1	\$4.8	2.8	\$2.3	1.4	\$1.8	2.5	\$2.5
H&G	14.6	\$32.2	11.6	\$22.5	9.4	\$17.4	11.3	\$26.8	11.5	\$20.4
Other products	.5	\$1.1	.4	\$.8	.5	\$1.3	.6	\$2.5	1.0	\$3.4
All products	17.3	\$35.9	17.1	\$28.1	12.8	\$21.0	13.3	\$31.1	15.0	\$26.2
Atka mackerel										
Whole fish	11.5	\$12.8	14.2	\$11.7	9.6	\$7.4	6.4	\$5.3	16.7	\$15.1
H&G	19.5	\$32.1	24.8	\$42.2	23.7	\$23.3	28.6	\$36.3	38.8	\$52.9
Other products	1.0	\$2.1	.0	\$.0	1.5	\$2.2	1.4	\$2.6	.8	\$.8
All products	32.0	\$46.9	39.0	\$54.0	34.8	\$32.8	36.4	\$44.3	56.4	\$68.7
Total	568.5	\$1,412.8	546.0	\$992.8	566.5	\$1,122.9	599.4	\$1,392.3	601.5	\$1,231.7

Source: Weekly processor report data and annual processor price survey, 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, 1992-96
(1,000 metric tons product weight).

	Bering Sea and Aleutians					Gulf of Alaska				
	1992	1993	1994	1995	1996	1992	1993	1994	1995	1996
Pollock										
Whole fish	2.4	4.0	1.5	2.7	3.2	1.3	.2	.1	.0	.0
H&G	3.1	1.2	.9	.9	.7	.8	.1	.1	.0	.0
Roe	17.2	11.4	10.7	15.3	13.9	.3	.4	1.1	.6	.6
Filletts	35.7	56.5	45.1	51.6	55.1	6.6	11.5	9.7	8.1	5.1
Surimi	154.9	144.3	172.9	170.7	156.1	7.9	6.0	9.1	7.4	4.8
Minced fish	13.8	13.2	9.8	9.3	13.7	1.0	3.2	1.1	.5	.5
Fish meal	58.8	52.8	51.4	49.7	45.7	1.1	1.1	.7	1.3	1.1
Other products	8.2	11.0	11.9	14.5	13.4	.1	.4	.3	.7	.2
Pacific cod										
Whole fish	1.4	2.5	1.9	1.8	2.9	5.9	7.7	3.3	1.9	5.3
H&G	57.4	32.7	48.8	55.1	54.0	10.9	4.6	3.0	5.8	3.7
Salted/split	-	-	-	7.1	10.3	-	-	-	.5	.5
Filletts	7.9	6.9	5.6	9.0	10.4	7.0	5.6	6.6	10.2	8.8
Other products	5.5	5.2	5.3	10.2	10.5	6.3	2.7	3.0	7.1	6.6
Sablefish										
H&G	1.2	1.6	1.3	1.3	.8	13.6	14.6	14.8	11.0	9.9
Other products	.0	.0	.0	.0	.0	.3	.1	.6	.2	.1
Flatfish										
Whole fish	27.4	24.4	39.0	51.2	29.5	3.2	4.3	3.9	3.9	5.6
H&G	31.4	34.6	29.3	27.4	33.1	2.4	1.9	.9	1.2	4.4
Kirimi	13.9	12.8	17.4	6.1	14.1	.3	.0	.2	.2	.3
Filletts	1.4	.0	.4	.2	.0	1.9	2.0	1.2	1.9	2.4
Other products	1.8	1.3	1.7	3.1	2.7	.2	.0	.0	.1	.0
Rockfish										
Whole fish	.4	.3	.7	.2	1.0	1.8	4.8	2.2	1.2	1.6
H&G	6.6	8.2	5.7	5.2	6.7	8.0	3.3	3.7	6.1	4.8
Other products	.0	.1	.0	.0	.0	.5	.3	.5	.6	1.0
Atka mackerel										
Whole fish	-	-	9.6	-	-	-	-	-	.0	-
H&G	12.4	20.9	21.7	28.2	38.0	7.2	3.9	2.0	.4	.8
Other products	1.0	.0	1.5	1.4	.0	-	.0	-	.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, 1992-96, (1,000 metric tons product weight).

	At-sea					On-shore				
	1992	1993	1994	1995	1996	1992	1993	1994	1995	1996
Pollock										
Whole fish	1.8	4.0	1.4	2.7	3.1	2.0	.3	.2	.1	.1
H&G	3.3	1.2	.9	.9	.7	.6	.1	.1	-	.0
Roe	12.9	10.1	7.8	11.1	10.0	4.6	1.7	4.0	4.8	4.5
Filletts	33.9	52.6	40.8	42.6	43.5	8.4	15.4	14.0	17.0	16.6
Surimi	91.5	75.1	93.3	93.5	85.8	71.3	75.3	88.7	84.7	75.1
Minced fish	13.8	14.0	9.7	7.0	11.7	1.0	2.4	1.2	2.7	2.5
Fish meal	32.3	26.5	21.4	21.3	20.1	27.6	27.5	30.7	29.6	26.7
Other products	1.1	1.6	.4	.6	.9	7.2	9.9	11.7	14.6	12.7
Pacific cod										
Whole fish	2.2	1.9	1.0	.6	1.4	5.1	8.3	4.2	3.0	6.8
H&G	64.6	34.5	48.1	56.6	55.6	3.6	2.9	3.7	4.3	2.1
Salted/split	-	-	-	.7	1.1	-	-	-	6.9	9.7
Filletts	7.5	4.0	2.3	4.4	5.1	7.4	8.4	10.0	14.9	14.1
Other products	4.4	2.7	1.8	3.7	4.5	7.4	5.2	6.5	13.6	12.6
Sablefish										
H&G	3.7	4.2	3.4	2.5	2.0	11.2	12.1	12.8	9.9	8.7
Other products	.0	.1	.1	.1	.1	.2	.0	.5	.2	.0
Flatfish										
Whole fish	30.0	28.4	40.2	51.1	31.1	.5	.4	2.8	4.1	3.9
H&G	33.2	35.8	29.5	28.0	37.0	.6	.7	.7	.7	.6
Kirimi	13.8	12.8	17.3	6.1	14.1	.3	.0	.3	.2	.4
Filletts	1.3	.0	.4	.2	.0	1.9	2.0	1.3	1.9	2.4
Other products	1.5	1.3	.7	1.9	2.4	.6	.0	1.0	1.2	.3
Rockfish										
Whole fish	1.7	4.8	2.4	1.0	1.5	.5	.3	.4	.4	1.0
H&G	14.0	11.2	9.2	10.8	11.0	.6	.4	.3	.5	.4
Other products	.2	.1	.0	.0	.0	.4	.3	.5	.6	1.0
Atka mackerel										
Whole fish	-	-	9.6	-	-	-	-	-	.0	-
H&G	19.5	24.8	23.7	28.6	38.8	-	-	-	-	.0
Other products	1.0	.0	1.5	1.4	-	.0	.0	.0	.0	.0

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, 1976-96, 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
1996	160.4	55.6	78.1	89.5	205.8	285.0	232.1	173.8

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, 1994-96, in cents/lb.

Month	Blocks					Fillets			
	Cod	Minced cod	Alaska pollock		Whiting	Cod (Canada)	Cod (Iceland)	Flounder	Ocean perch
			Imported	Domestic					
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
1996									
Jan.	172.5	52.0	81.5	107.0	97.5	205.0	285.0	232.5	172.5
Feb.	162.5	55.0	81.0	92.5	96.5	205.0	285.0	232.5	167.5
Mar.	162.5	56.0	81.0	87.5	94.5	207.5	285.0	232.5	167.5
Apr.	162.5	56.0	78.0	85.0	96.0	207.5	285.0	232.5	172.5
May	162.5	56.0	78.0	85.0	96.0	207.5	285.0	232.5	172.5
Jun.	162.5	56.0	78.0	85.0	96.0	207.5	285.0	232.5	172.5
Jul.	162.5	56.0	78.0	85.0	96.0	207.5	285.0	232.5	172.5
Aug.	162.5	56.0	76.0	87.5	TFQ	207.5	285.0	232.5	167.5
Sep.	152.5	56.0	76.0	87.5	TFQ	207.5	285.0	232.5	167.5
Oct.	152.5	56.0	76.5	87.5	TFQ	207.5	285.0	232.5	182.5
Nov.	152.5	56.0	76.5	92.5	TFQ	200.0	285.0	230.0	185.0
Dec.	157.5	56.0	76.5	92.5	TFQ	200.0	285.0	230.0	185.0

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

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

Table 36.--Monthly Japanese landing market price of selected groundfish by species, 1987-96, in yen/kilogram (weighted average).

Species	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
Flatfish, fresh												
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
1996	501	556	543	472	431	385	477	550	419	403	418	490
Cod, fresh												
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
1996	296	235	153	83	68	72	176	149	205	273	304	289
Cod, frozen												
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
1996	265	220	183	211	146	201	247	326	213	292	299	262
Alaska pollock, fresh												
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
1996	90	120	110	77	33	27	63	46	42	41	54	91

Table 36.--Continued.

Species	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
Atka mackerel, fresh												
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
1996	21	22	29	40	51	40	95	69	40	46	69	28
Rockfish, fresh												
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
1996	3471	3586	3510	2630	2321	2188	2234	2374	2419	3012	3073	3414

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, 1987-96,
in yen/kilogram (weighted average).

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
Flatfish, frozen												
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
1996	478	478	467	520	532	544	575	550	562	550	565	580
Cod, frozen												
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
1996	586	603	636	689	657	677	715	561	584	624	545	590
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
1996	334	319	314	330	303	342	334	286	308	309	347	321

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), 1991-96.

Product	Quantity	Value	Average price
Whole or dressed			
Cod			
1991	177,223	144,389	\$0.81
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
1996	88,749	73,853	.83
Flounders and soles			
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
1996	163,148	107,921	.66
Pollock			
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
1996	8,425	3,761	.45
Sablefish			
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
1996	33,949	88,043	2.59
Total whole or dressed			
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
1996	460,706	370,746	.80
Fillets and steaks			
Cod			
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
1996	15,144	16,130	1.07

Table 38.--Continued.

Product	Quantity	Value	Average price
Halibut			
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
1996	581	1,688	2.91
Other			
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
1996	27,102	29,512	1.09
Total fillets and steaks			
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
1996	42,827	47,330	1.11
Other			
Fish roe, excluding herring and salmon			
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
1996	36,209	167,007	4.61
Fish, dried, salted, smoked			
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
1996	6,672	6,870	1.03
Fish, other			
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
1996	342,680	324,271	.95

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 1995 to 1996, and average price (\$/lb), 1995-96.

Product/Country	Quantity		% Change 95 to 96	Average price	
	1995	1996		1995	1996
Whole or dressed					
Cod					
Total	83,246	88,749	6.6	\$1.01	\$0.83
Japan	65,255	63,510	-2.7	1.01	.83
Rep. of Korea	5,694	17,195	202.0	1.17	.77
Flounders and soles					
Total	171,088	156,841	-8.3	.60	.60
Japan	61,434	70,892	15.4	.95	.86
Peo. Rep. China	60,163	36,157	-39.9	.43	.40
Rep. of Korea	46,168	46,329	.3	.35	.34
Sablefish					
Total	35,535	33,949	-4.5	2.69	2.59
Japan	34,349	31,082	-9.5	2.71	2.70
Total	434,220	460,706	6.1	.89	.80
Japan	262,301	290,501	10.7	1.13	.96
Rep. of Korea	83,863	111,020	32.4	.42	.41
Canada	11,529	7,848	-31.9	1.42	1.73
Filletts					
Total	18,581	42,827	130.5	1.47	1.11
Japan	13,212	23,759	79.8	1.38	.96
Canada	3,428	3,949	15.2	1.95	2.01
Roe					
Total	39,826	36,209	-9.1	4.13	4.61
Japan	35,556	31,916	-10.2	4.27	4.62
Rep. of Korea	2,614	3,295	26.1	3.28	5.13
Salted, dried, or smoked					
Total	3,124	6,672	113.6	1.10	1.03
Surimi					
Total	294,806	280,295	-4.9	1.18	.94
Japan	259,328	226,051	-12.8	1.20	.96
Rep. of Korea	23,708	32,483	37.0	1.07	.87

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, 1976-96, quantity in million lb, 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
1996	223	407	234	213	457	620

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, 1970-96,
population in millions and consumption in pounds, 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
1996	264.0	10.0	4.5	.3	14.8

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 1 July 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, 1996. Natl. Mar. Fish. Serv., 1315 East-West Highway, Silver Spring, MD 20910, CFS No. 9600, July 1997.

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, 1980-96.

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	794,921	3.03	332,664	1.27
1996 p	819,873	3.10	283,729	1.07

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, 1976-96.

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
1996	127.6	108.9	119.6	165.9	70.2	156.9	140.2	152.4	173.1

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, 1994-96.

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
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
1996									
Jan.	126.1	101.9	117.1	173.2	63.2	154.4	137.6	148.0	174.7
Feb.	125.9	103.3	115.6	169.3	60.9	154.9	137.5	149.4	172.1
Mar.	126.4	102.8	113.0	171.2	65.2	155.7	137.6	148.0	173.0
Apr.	127.5	103.9	113.5	166.0	73.6	156.3	136.9	147.6	172.1
May	128.2	106.2	116.2	153.4	74.8	156.6	136.4	149.6	173.4
Jun.	127.9	109.3	121.0	158.2	69.9	156.7	138.8	151.3	173.7
Jul.	127.9	109.8	122.4	163.4	69.2	157.0	139.6	152.7	173.0
Aug.	128.1	115.4	123.7	159.3	70.0	157.3	141.8	154.5	170.2
Sep.	128.0	111.5	124.5	157.7	71.9	157.8	143.0	155.8	171.9
Oct.	127.9	113.3	123.1	169.2	74.2	158.3	143.6	157.1	173.5
Nov.	128.1	114.2	122.4	175.4	74.5	158.6	144.6	157.3	174.3
Dec.	128.8	114.8	122.1	174.2	75.0	158.6	144.4	157.8	175.1

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, 1976-96,
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
1996	1.3635	5.7990	108.78	804.45	1.4540	66.500	6.4498	.6400

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, 1994-96,
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)
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	62.91	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	101.8	771.1	1.536	65.32	6.35	.650
1996								
Jan.	1.367	5.65	105.8	787.3	1.514	65.97	6.42	.653
Feb.	1.376	5.67	105.7	780.3	1.481	66.07	6.41	.651
Mar.	1.365	5.71	105.8	781.2	1.470	66.07	6.43	.655
Apr.	1.360	5.81	107.4	780.4	1.465	66.64	6.50	.660
May	1.669	5.92	106.4	780.2	1.458	67.34	6.58	.660
Jun.	1.366	5.89	108.9	798.0	1.479	66.03	6.53	.648
Jul.	1.369	5.80	109.3	812.8	1.450	66.56	6.38	.644
Aug.	1.372	5.73	107.8	816.8	1.452	66.11	6.41	.645
Sep.	1.369	5.80	109.8	821.8	1.437	66.61	6.45	.641
Oct.	1.351	5.86	112.4	827.6	1.427	66.87	6.43	.631
Nov.	1.338	5.80	112.3	828.1	1.408	66.06	6.35	.601
Dec.	1.362	5.94	113.8	839.0	1.416	66.85	6.47	.601

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

Source: Intl. Financial Statistics, Intl. Mon. Fund, Washington, DC.

Table 47.--Monthly U.S. cold storage holdings of selected groundfish blocks, 1994-96, in 1,000 lb (end of month).

Month	Cod	Flounder	pollock	other	Whiting	Minced	Total*
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
1996							
Jan.	5,753	991	10,972	5,673	737	3,492	32,949
Feb.	5,967	970	13,924	3,481	1,073	2,941	32,140
Mar.	4,178	1,041	17,126	4,786	1,218	4,866	36,518
Apr.	4,845	1,095	15,411	6,549	763	6,803	40,232
May	4,368	951	14,549	10,253	471	12,946	48,884
Jun.	4,533	836	13,215	9,029	987	15,769	48,950
Jul.	4,033	939	13,681	7,472	478	16,084	46,846
Aug.	4,041	931	12,963	5,041	559	8,313	35,062
Sep.	7,446	927	14,758	3,285	587	16,230	46,170
Oct.	3,810	1,385	18,953	8,307	614	12,888	48,834
Nov.	3,936	972	23,499	10,378	935	6,397	49,298
Dec.	4,452	947	26,499	11,162	889	5,794	52,963

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, 1994-96, in 1,000 lb (end of month).

Month	Cod	Flounder	Ocean perch	Alaska pollock	Pollock, other	Whiting	Total*
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
1996							
Jan.	15,153	3,601	5,343	9,487	2,323	3,752	45,137
Feb.	16,095	4,402	5,440	9,973	2,033	2,364	44,872
Mar.	15,361	4,536	3,693	7,246	1,938	4,041	40,355
Apr.	16,727	4,572	4,349	7,351	2,701	3,640	43,669
May	20,264	4,274	2,974	4,462	2,573	2,623	41,376
Jun.	21,997	4,463	3,454	5,955	2,368	2,552	45,072
Jul.	24,080	8,895	3,321	10,197	2,719	1,096	54,319
Aug.	16,965	4,896	2,573	4,907	2,678	2,457	38,858
Sep.	12,109	4,662	1,654	4,878	2,502	2,883	34,019
Oct.	14,695	5,373	4,477	9,726	3,687	3,318	45,157
Nov.	13,211	5,719	4,503	7,851	3,930	4,539	43,773
Dec.	9,020	4,805	4,355	8,435	4,226	5,441	41,468

Notes: * Total includes other species not listed.

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

Table 49.--Monthly West Coast cold storage holdings of selected groundfish products, 1994-96, in 1,000 lb (end of month).

Month	Alaska pollock blocks	Filletts			Sablefish	Surimi	Analog products
		Cod	Flounder	Pollock			
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
1996							
Jan.	3,322	4,096	1,079	8,244	669	19,785	4,356
Feb.	6,152	4,053	1,329	9,065	330	16,716	4,246
Mar.	10,519	4,637	1,550	6,728	240	23,921	4,163
Apr.	6,626	5,406	1,616	5,915	277	21,218	4,471
May	7,174	6,280	1,812	3,860	541	20,624	3,992
Jun.	4,471	5,748	2,384	3,322	505	17,776	3,194
Jul.	4,466	4,792	2,251	3,864	868	14,300	1,359
Aug.	4,944	3,135	3,097	4,309	694	11,741	3,748
Sep.	7,303	2,962	2,610	4,485	1,111	11,845	4,185
Oct.	8,243	2,528	2,970	8,430	432	16,670	3,902
Nov.	6,892	1,673	2,558	6,808	345	16,206	3,416
Dec.	6,451	1,203	2,396	5,629	209	14,380	3,400

Notes: Includes domestic and foreign products.

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

RECENT TECHNICAL MEMORANDUMS

Copies of this and other NOAA Technical Memorandums are available from the National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22167 (web site: www.ntis.gov). Paper and microfiche copies vary in price.

AFSC-

- 85 KINOSHITA, R. K., A. GREIG, and J. M. TERRY. 1998. Economic status of the groundfish fisheries off Alaska, 1996, 91 p. NTIS No. PB98-126170.
- 84 LAAKE, J., D. RUGH, and L. BARAFF. 1998. Observations of harbor porpoise in the vicinity of acoustic alarms on a set gill net, 40 p. NTIS No. PB98-117641.
- 83 RUTECKI, T. L., M. F. SIGLER, and H. H. ZENGER JR. 1997. Data report: National Marine Fisheries Service longline surveys, 1991-96, 64 p. NTIS No. PB98-108822.
- 82 MARTIN, M. H. 1997. Data report: 1996 Gulf of Alaska bottom trawl survey, 235 p. NTIS No. PB98-103930.
- 81 LAUTH, R. R. 1997. The 1996 Pacific West Coast upper continental slope trawl survey of groundfish resources off Washington and Oregon: Estimates of distribution, abundance, and length composition, 156 p. NTIS No. PB97-208912.
- 80 LAUTH, R. R. 1997. The 1995 Pacific West Coast upper continental slope trawl survey of groundfish resources off southern Oregon and northern California: Estimates of distribution, abundance, and length composition, 110 p. NTIS No. PB97-208920.
- 79 LAUTH, R. R., M. E. WILKINS, and P. A. RAYMORE JR. 1997. Results of trawl surveys of groundfish resources of the West Coast upper continental slope from 1989 to 1993, 342 p. NTIS No. PB97-208904.
- 78 HILL, P. S., D. P. DEMASTER, and R. J. SMALL. 1997. Alaska marine mammal stock assessments, 1996, 150 p. NTIS No. PB97-203277.
- 77 CHUMBLEY, K., J. SEASE, M. STRICK, and R. TOWELL. 1997. Field studies of Steller sea lions (Eumetopias jubatus) at Marmot Island, Alaska, 1979 through 1994, 99 p. NTIS No. PB97-203376.
- 76 OSMEK, S., J. CALAMBOKIDIS, J. LAAKE, P. GEARIN, R. DELONG, J. SCORDINO, S. JEFFRIES, and R. BROWN. 1997. Assessment of the status of harbor porpoise (Phocoena phocoena) in Oregon and Washington waters, 46 p. NTIS No. PB97-198436.
- 75 WING, B. L., C. W. DERRAH, and V. M. O'CONNELL. 1997. Ichthyoplankton in the eastern Gulf of Alaska, May 1990, 42 p. NTIS No. PB97-174379.
- 74 WILSON, C. D., and M. A. GUTTORMSEN. 1997. Echo integration-trawl survey of Pacific whiting, Merluccius productus, off the west coasts of the United States and Canada during July-September 1995, 70 p. NTIS No. PB97-174387.
- 73 CELEWYCZ, A. G., and A. C. WERTHEIMER. 1997. Suitability of Dry Bay, southeastern Alaska, as rearing habitat for juvenile salmon, 19 p. NTIS No. PB97-161343.
- 72 KINOSHITA, R. K., A. GREIG, D. COLPO, and J.M. TERRY. 1997. Economic status of the groundfish fisheries off Alaska, 1995, 91 p. NTIS No. PB97-161269.
- 71 STRICK, J. M., L. W. FRITZ, and J. P. LEWIS. 1997. Aerial and ship-based surveys of Steller sea lions (Eumetopias jubatus) in Southeast Alaska, the Gulf of Alaska, and Aleutian Islands during June and July 1994, 55 p. NTIS No. PB97-144026.