

Pollock Conservation Cooperative  
and  
High Seas Catchers' Cooperative

Final  
Joint Annual Report 2011

North Pacific Fishery Management Council

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## Pollock Conservation Cooperative Annual Report

### Introduction

In 1998 the owners of the catcher-processors and catcher-vessels that deliver to catcher-processors in the Bering Sea and Aleutian Islands (BSAI) pollock fishery jointly formed fishing cooperatives to coordinate pollock harvesting efforts. The cooperative for the catcher-processor owners is the Pollock Conservation Cooperative (PCC), and for catcher-vessels it is the High Seas Catchers' Cooperative (HSCC). An agreement called the "Cooperative Agreement Between Offshore Pollock Catchers' Cooperative and Pollock Conservation Cooperative" was developed to facilitate efficient harvest management and accurate harvest accounting between the PCC and the HSCC.

### Purpose of Report

This report is intended to disclose all information required or identified in the American Fisheries Act (AFA), in the North Pacific Fishery Management Council (NPFMC) October 1999 recommendation to the U.S. Secretary of Commerce, and in further guidance provided by the NPFMC in letters dated October 21, 1999 and November 1, 1999. The tables and figures in this report are largely self-explanatory, although some notes have been included to provide detail. The catch data in this report was provided by SeaState, Inc., and was obtained from the National Marine Fisheries Service (NMFS) North Pacific Groundfish Observer Program.<sup>1</sup>

### Reporting Requirements

Fishing cooperatives formed under the AFA are subject to certain annual reporting requirements. Section 210(a)(1)(B) of the AFA requires the North Pacific Fisheries Management Council and the US Secretary of Commerce to "make available to the public in such manner as the North Pacific Council and Secretary deem appropriate information about the harvest by vessels under a fishery cooperative of all species (including bycatch) in the directed pollock fishery on a vessel-by-vessel basis." In doing so, however, the NPFMC and Secretary must take into account "the interest of the parties to [a fishing cooperative] in protecting the confidentiality of proprietary information."

In October 1999, the NPFMC took action to implement section 210(a)(1)(B) of the AFA by recommending that cooperatives annually prepare a report (a preliminary report is due by December 1, and a final report by January 31) containing: (1) allowed catch and bycatch of pollock and all sideboard species by whatever method is used to determine those allocations; (2) actual catch and bycatch in the directed pollock fishery by vessel, and in sideboard fisheries by whatever method is used to determine those

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<sup>1</sup>. The NMFS catch database for the 2011 fishing year is still subject to revision as catch data and other information from the fishery is finalized. To the extent that information in this report is based on NMFS data, it is still subject to revision. At this point, however, neither the PCC nor the HSCC are aware of any data discrepancies that would materially alter the substantive elements of this report.

sideboards; (3) methods used to monitor fisheries in which cooperative vessels participated; and (4) actions taken by cooperatives to enforce vessel or aggregate catches that exceed allowed catch and bycatch in the pollock and sideboard fisheries.

### Cooperative Members and Allocations

The Pollock Conservation Cooperative was formed in December 1998 in order to promote the rational and orderly harvest of pollock by the catcher-processor (CP) sector of the BSAI pollock trawl fisheries. The PCC is made up of the companies that operate 19 CPs eligible under section 208(e)(1)-(20) of the AFA to harvest and process pollock in the BSAI directed pollock fishery. In September 2005 the PCC companies adopted an amended and restated membership agreement. During 2010, the membership agreement was amended to reflect a change in ownership of the F/T Northern Hawk along with one percent of the non-CDQ directed pollock fishery, which was purchased by Coastal Villages Pollock, LLC. According to the PCC harvest schedule, each company is allocated a percentage of the directed fishery specified under Section 206(b) of the AFA. The percentage of the catcher-processor directed pollock fishery allocated to each PCC member company by the amended membership agreement is shown below.<sup>2</sup>

	Directed Pollock Fishery (%)	PCC Share (%)
Coastal Villages Pollock, L.L.C.	1.000	2.73
Starbound, L.L.C.	1.585	4.33
Arctic Fjord, Inc.	1.792	4.90
Arctic Storm, Inc.	1.841	5.03
Glacier Fish Company, L.L.C.	6.222	17.00
Trident Seafoods Corporation	6.824	18.64
American Seafoods, L.L.C.	18.336	47.37
Total	<u>36.600</u>	<u>100.00</u>

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<sup>2</sup> Under sections 205(4) (definitions) and 206 (allocations) of the AFA, the BSAI directed pollock fishery (DPF) is the amount of the total allowable catch remaining after 10 percent has been deducted for the western Alaska Community Development Quota program and an additional amount has been deducted for the incidental catch of pollock in other groundfish fisheries. Section 206(b)(2) of the American Fisheries Act allocates a total of 40 percent of the DPF to catcher-processors and the catcher vessels that deliver to catcher-processors, and section 210(c) allocates 8.5 percent of this amount (3.4 percent of the DPF) to catcher vessels that deliver to catcher processors. Subsequently, the AFA was amended by the Consolidated Appropriations Act of 2004, which reallocated the AI DPF to the Aleut Corporation for the purpose of economic development of Adak, Alaska.

## Inter-Cooperative Agreement Between PCC and HSCC

On January 21, 1999, the PCC and HSCC completed an agreement to facilitate efficient management and accurate accounting between the two cooperatives. The agreement, “Cooperative Agreement Between Offshore Pollock Catchers’ Cooperative and Pollock Conservation Cooperative” remains in force, has not been changed, and is available upon request from the NPFMC. Under the Cooperative Agreement, the PCC and HSCC established a Joint Harvest Schedule and agreed to retain the same independent quota monitoring service. The Cooperative Agreement governs the harvest and processing of the HSCC members’ share of the BSAI directed pollock fishery and the transfer of pollock allocations between members of the two cooperatives.

## Yellowfin Sole Fishery

Ten PCC vessels participated in the directed fishery for BSAI yellowfin sole in 2011. Groundfish catch and PSC bycatch is shown in Table 3. Catch rates are provided to assess target catch and PSC bycatch per ton of total groundfish catch. So for example, on average about two *bairdi* crab were caught per ton of groundfish in the yellowfin sole directed fishery, and yellowfin sole catches were on average about 75 percent of the total groundfish catch.

## AFA Sideboard Limits and Total Groundfish Catch

PCC vessels are all AFA CPs. The 2011 AFA CP sideboard limits and catches of sideboard-limited groundfish and PSC species are shown in Table 4. The groundfish limits control PCC directed fishing for each species listed. Note, however, that the BSAI yellowfin sole fishery was not sideboard-limited in 2011. For some groundfish species catch is greater than the limit, but in every case this catch occurred as bycatch in the pollock and yellowfin sole fisheries. The PSC limits cap bycatch of these species in the non-pollock fisheries. The yellowfin sole fishery was the only PCC non-pollock fishery in 2011, and so PSC bycatch amounts in Table 4 reflect only bycatch in the yellowfin sole fishery. Table 5 shows PCC catches of all non-pollock groundfish and PSC species by vessel from the pollock and yellowfin sole fisheries combined.

## Pollock Fishery Discards

Groundfish bycatch amounts in the pollock target fishery are reported in Table 2 as by-vessel and total amounts of other (non-pollock) groundfish.<sup>3</sup> These groundfish bycatch amounts include catches of all of the species groups except pollock listed on the Bering Sea and Aleutian Islands “TAC sheet.” In contrast to groundfish bycatch,

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<sup>3</sup> In this report the term “bycatch” includes all non-target groundfish species that are taken incidental to directed fishing operations for pollock, cod, and yellowfin sole, whether such catch is retained and sold or discarded. This is different from the definition of “bycatch” in Section 3(1) of the Magnuson-Stevens Act 16 USC 1802, which defines bycatch as non-retained (discarded) catch.

groundfish discards include all groundfish catches, including pollock, from which no edible, saleable product can be produced. An estimate of the total groundfish discard amount is provided as a footnote to Table 2. Table 6 provides additional pollock-fishery bycatch and discards detail, including in particular the bycatch and discard of forage and non-specified species. These discard estimates are made by the North Pacific Groundfish Observer Program. The non-specified category includes species that occur infrequently in the BSAI, or have little or no economic value, and so are neither targeted by the commercial fisheries nor managed by the National Marine Fisheries Service. In 2011, jellyfish were about 99 percent of non-specified species bycatch in the pollock fishery. Table 6a shows pollock discards by vessel in the pollock fishery.

### Chinook Salmon Bycatch Avoidance

Amendment 91 to the BSAI FMP limits Chinook salmon bycatch in the Bering Sea pollock fishery. Regulations implementing the Amendment 91 program came into force in 2011. The program is an innovative approach to managing Chinook salmon bycatch that combines overall, sector-specific limits on the amount of Chinook salmon bycatch with a voluntary incentive plan agreement (IPA) and performance standard requirement designed to minimize Chinook bycatch by each individual vessel. These vessel-level incentives are created through contracts among the IPA participants.

The PCC member companies developed and participate in a Chinook Salmon Bycatch Reduction Incentive Plan and Agreement. The agreement was first implemented in 2011 and is designed to provide the incentives necessary to accomplish the goals and objectives of Amendment 91. The plan builds on experience gained in the development and refinement of time-and-area-based “rolling hot-spot” salmon bycatch avoidance-area programs. The plan creates incentives to avoid Chinook bycatch by restricting the pollock fishing opportunities of vessels with poor bycatch performance while allowing vessels with good bycatch performance less restricted access to fishing grounds. Losing access to good fishing grounds increases vessel operating costs and reduces product values; avoiding these costs and producing more high-value products increases vessel profits.

The plan is designed to work in concert with the annual Chinook bycatch limits specified in Amendment 91. Primary plan components include: (1) data gathering, monitoring, reporting, and information sharing; (2) identification of bycatch avoidance areas; and (3) pollock fishing prohibitions for vessels with poor bycatch performance. The plan also includes an A-season closure area (Chinook Salmon Conservation Area). This 735 square-mile area is on the northern flank of the Bering Canyon, and remains closed to pollock fishing for the entire A-season. An analysis of A-season data from 1995-2007 showed that in some years nearly 20 percent of the Chinook salmon bycatch occurred in the area along with only 2-3 percent of the pollock catch. Additional program features and performance results are provided in an annual report available from the NPFMC.

## Inter-Cooperative Agreement on Chum Salmon Bycatch Avoidance

All BSAI pollock cooperatives participated in an inter-cooperative chum salmon bycatch avoidance (hot-spot closure) program. The PCC began participating during 2001, and since then has worked to improve the program. The program became a regulated component of the Bering Sea pollock fishery in 2006 (Amendment 84 to the BSAI Fishery Management Plan). As for the Chinook bycatch management program, the chum salmon program is implemented via contracts among the program participants.

To address unexpected, high chum bycatch in June, all ICA participants agreed during July to expand the maximum size of the weekly avoidance areas and slow the upward “float” in the standard used to limit fishing in the avoidance areas. In retrospect, these changes reduced daily pollock catches more than expected, due in part to a grounds-wide reduction in pollock availability beginning in August. The decision to expand the maximum area size was perhaps an over-reaction by industry and not warranted. However, limiting fishing in avoidance areas using a lower chum bycatch rate is thought to have improved the program. Table 7 shows the season-weeks that PCC vessels were on the Amendment 84 D-20 list during the 2011 pollock B-season. Table 7a provides a corrected 2010 D-20 list, which should replace the list in the 2010 annual report.

The 2011 ICA report includes an analysis of the chum salmon “saved” by the hot-spot program. For the 22 percent of the pollock catch that could be tracked from vessels fishing in areas just before they were designated as avoidance areas, and then fishing elsewhere immediately after, it is estimated that about 80,000 less chum salmon were caught. The approximately 47,000 chum salmon that were caught by these vessels was just less than 40 percent of the chum bycatch that would have been expected had these vessels not moved their fishing operations. The conclusion is that the 2011 chum salmon ICA was very likely effective and reduced chum salmon bycatch.

## Monitoring and Enforcement

All data used in monitoring pollock and non-pollock fishing activities was obtained from the North Pacific Groundfish Observer Program office. Information concerning the catch and bycatch of individual vessels is available from a NMFS data server 24 hours a day, and is generally accessible 20 minutes after transmission from the vessels. SeaState, Inc., a company that provides catch accounting services, is authorized by the PCC companies to receive and process this data and report on the status of the harvest. Observer data are downloaded one or two times per day, processed to generate catch and bycatch information, and then sent to a SeaState web site where company representatives verify catch and bycatch data for their vessel(s).

Aboard each vessel, the catch is weighed using motion-compensated flow scales. The species composition of the catch is determined from observer sampling. Since two observers are required on AFA-eligible catcher-processors in the groundfish fisheries, the number of unsampled hauls is very low. In 2011, virtually 100 percent of pollock hauls were sampled. For those very few hauls that were not sampled, species composition was determined as per Community Development Quota program

regulations, where species composition for an unsampled haul is presumed to be the same as the previous haul. Once the catch and species composition is posted on the SeaState web site, it is available for review by vessel owners. Typically, either an operations manager or vessel operator checks into the site each day to make sure recorded harvest amounts are consistent with vessel tallies.

Companies with several vessels often set initial vessel allocations, and then manage vessel harvests independently until late in the season. Typically, inter- and intra-company transfers of pollock occur near the end of the season to promote quota usage. No enforcement actions were taken by the PCC against any members during 2011.



## High Seas Catchers' Cooperative Annual Report

### Introduction

The High Seas Catchers Coop is a fisheries cooperative of all vessels eligible under section 208(b) of the American Fisheries Act. The HSCC is party to an inter-cooperative agreement with the PCC for purposes of pollock harvest management, and a participant in a catcher-vessel inter-cooperative agreement for purposes of sideboard species harvest management.

### Cooperative Members and Allocations

The member vessels of HSCC include the F/Vs American Challenger, Forum Star, Muir Milach, Neahkahnie, Ocean Harvester, Sea Storm, and Tracy Anne. The HSCC Membership agreement is on file at the NPFMC.

Allocations of pollock to members of HSCC were established within the HSCC membership agreement, as well as within the Cooperative Agreement with the PCC. Allocations of the BSAI Pacific cod sideboard amounts available for 2011, and further sub-divided in the "Intercoop BSAI Cod Sideboard Allocation Agreement," were made by the HSCC Board of Directors through a roll over of the "Consent of Directors" document included as an appendix to the HSCC 2000 Annual Report. Other sideboard species were allocated by action of the HSCC Board of Directors. Prior to participation in any sideboard fishery, members were required to provide notice to the HSCC Executive Director, and-or the Manager of the Catcher Vessel Inter-Cooperative Agreement (CVICA). There is additional information about the flow of information between the vessels, the HSCC, SeaState, the CVICA Manager, and NMFS in the Catcher Vessel Inter-Cooperative Agreement.

The 2011 distribution in metric tons of the 206(b)(2) allocation of the directed pollock fishery to catcher-processors and catcher vessels, including releases from the pollock incidental catch allowance and the Aleutian Islands fishery, is as follows:

Forum Star	2,699
American Challenger	3,481
Ocean Harvester	4,781
Muir Milach	5,017
Tracy Anne	5,132
Neahkahnie	7,384
Sea Storm	9,094
Total	<u>37,588</u>

## Inter-Cooperative Agreement Between HSCC and PCC

The members of PCC and HSCC are allocated pollock under section 206(b)(2) of the AFA. As noted, HSCC is a party to the “Cooperative Agreement Between Offshore Pollock Catchers’ Cooperative and Pollock Conservation Cooperative” for purposes of pollock management, and this agreement is available from the NPFMC.

## Catcher Vessel Inter-Cooperative Agreement

HSCC is also a party to the Catcher Vessel Inter-Cooperative Agreement (CVICA) for purposes of groundfish sideboard harvest management. Compliance with both agreements is based upon monitoring of catch and bycatch by SeaState, Inc. A copy of the CVICA is on file at the NPFMC. Information concerning CVICA allocations and rules as well as inter-cooperative transfer arrangements is contained in an annual report submitted to the NPFMC by the CVICA Manager. Among other things, the CVICA contains specific provisions on management of halibut prohibited-species catches (PSC) in the BSAI Pacific cod fishery. Detailed PSC use by HSCC vessels is provided in Table 9.

## Bering Sea Pollock Transfers and Directed Pollock Fishing

Based upon the January 1999 “Cooperative Agreement Between Offshore Pollock Catchers’ Cooperative and Pollock Conservation Cooperative,” individual members of HSCC have made transfers of pollock to individual members of PCC. These transfers are reported in Table 1 while catch and bycatch information for the directed Bering Sea pollock fishery is provided in Table 2.

## Bering Sea and Aleutian Islands Shellfish Fisheries

The BSAI crab rationalization program was implemented in August 2005. As part of that program, the AFA crab sideboard limits were eliminated. The HSCC vessel Forum Star leased all of its scallop catch history and so did not catch any scallops in 2011.

## AFA Sideboard Limits

The NMFS publishes in the Federal Register the sideboard limits for all AFA catcher vessels as well as a set of information tables which provide historic catches of sideboard species by cooperative for those species for which directed fishing is allowed (e.g., see: [www.fakr.noaa.gov/sustainablefisheries/afa/afa\\_sf.htm](http://www.fakr.noaa.gov/sustainablefisheries/afa/afa_sf.htm)). The regulations allow two or more cooperatives to enter into an inter-cooperative agreement where vessel catches are limited by the combined cooperative sideboard limits.

## Bering Sea and Aleutian Islands Sideboard Fisheries

One sideboard-limit exempt vessel and three non-exempt vessels participated in the Pacific cod fishery in 2011 and caught 4,909 metric tons of cod. Table 8 shows target, bycatch, and prohibited species catch for this fishery. Catch rates are provided to assess target catch and PSC use. Total groundfish catch by species is shown in Table 9.

## Gulf of Alaska Sideboard Fisheries

No HSCC vessels participated in any Gulf of Alaska fishery in 2011.

## Monitoring and Enforcement

All data used in monitoring HSCC pollock and non-pollock fishing for delivery to offshore processors was obtained from the NMFS observer program office. Information is available on the NMFS password-protected web site 24 hours a day, and is generally accessible 20 minutes after transmission from the vessel. Sea State, Inc. is authorized by the HSCC and its members to receive and process this observer data and report back to the members on the status of the harvest. The methods are the same as those described above under PCC Monitoring and Enforcement.

For deliveries to shore-side processors, each company submitted copies of its Alaska Department of Fish and Game (ADFG) fish tickets to SeaState, Inc. for tabulation through the NMFS Electronic Fish Ticket Program. In addition, HSCC member companies provided confidentiality waiver requests to ADFG for release of the data directly to SeaState so to verify the completeness and accuracy of data submitted by HSCC members. This information was then made available to all HSCC members on the SeaState web site.

## Penalty Structures within the HSCC and Between Cooperatives

The Cooperative Agreement between HSCC and PCC provides for inter-cooperative enforcement of penalties in the event of over-harvest of pollock. The CVICA also contains penalty provisions for over-harvest of sideboard species. No enforcement actions were taken by HSCC members in either its pollock or sideboard fisheries, as members complied with the provisions of the membership agreement.

Table 1. PCC and HSCC Pollock Allocations and Catch.

2011	Company	Vessel	Cooperative Shares (mt)			Catch (mt)		
			Harvest Schedule	Transfers	Allocation	Vessel	Company Total	Over (under) Allocation
PCC	American Seafoods Company		191,020	2,811	193,832		183,483	(10,349)
		American Dynasty				40,503		
		American Triumph				40,262		
		Northern Eagle				27,612		
		Northern Jaeger				36,497		
		Ocean Rover				38,610		
	Arctic Fjord Ltd.	Arctic Fjord	19,746	7,961	27,707	27,707	27,707	0
	Arctic Storm Ltd.	Arctic Storm	20,285	8,532	28,817	28,817	28,817	0
	Coastal Villages Pollock	Northern Hawk	11,019	8,500	19,519	17,358	17,358	(2,161)
	Glacier Fish Company		68,558	0	68,558		66,630	(1,928)
		Alaska Ocean				37,162		
		Northern Glacier				1,921		
		Pacific Glacier				27,547		
Starbound Ltd.	Starbound	17,465	9,092	26,557	22,486	22,486	(4,071)	
Trident Seafoods Corporation		76,518	690	77,208		77,198	(10)	
	Island Enterprise				31,100			
	Kodiak Enterprise				26,176			
	Seattle Enterprise				19,922			
HSCC		Forum Star	2,699	-2,699	0		0	
		American Challenger	3,481	-3,481	0		0	
		Ocean Harvester	4,781	-4,781	0		0	
		Muir Milach	5,017	-5,017	0		0	
		Tracy Anne	5,132	-5,132	0		0	
		Neahkanie	7,384	-7,384	0		0	
		Sea Storm	9,094	-9,094	0		0	
		Total	442,198	0	442,198	423,679	423,679	(18,519)

Table 2. PCC and HSCC Pollock Directed-Fishing Catch and Bycatch.

2011	Vessel	Pollock (mt)	Other Groundfish (mt)	Halibut Mortality (mt)	Herring (mt)	Red King Crab (N)	Bairdi Crab (N)	Opilio Crab (N)	Chinook Salmon A (N)	Chinook Salmon B (N)	Other Salmon A (N)	Other Salmon B (N)
PCC	American Dynasty	40,503	1,402	18	6	0	182	199	213	162	9	4,752
	American Triumph	40,262	1,811	24	4	0	13	50	120	119	3	2,674
	Northern Eagle	27,612	1,157	9	4	0	0	19	132	230	7	2,302
	Northern Jaeger	36,497	2,154	19	15	0	966	478	78	70	3	2,657
	Ocean Rover	38,610	2,149	19	8	0	1,016	194	121	80	2	2,372
	Arctic Fjord	27,707	683	8	2	0	87	111	110	188	5	4,304
	Arctic Storm	28,817	969	13	65	0	45	124	86	30	0	1,588
	Northern Hawk	17,358	849	7	3	0	14	29	80	78	3	2,797
	Alaska Ocean	37,162	1,709	16	6	0	6	550	183	140	9	3,360
	Northern Glacier	1,921	31	0	0	0	5	50	22	16	0	200
	Pacific Glacier	27,547	859	7	4	0	17	20	96	78	1	1,796
	Starbound	22,486	974	8	1	0	18	30	143	79	2	4,801
	Island Enterprise	31,100	726	6	7	0	209	526	136	184	3	4,404
	Kodiak Enterprise	26,176	886	7	1	0	105	340	148	187	1	4,042
Seattle Enterprise	19,922	547	4	0	0	5	39	138	11	4	2,250	
HSCC	Forum Star	0	0	0	0	0	0	0	0	0	0	0
	American Challenger	0	0	0	0	0	0	0	0	0	0	0
	Ocean Harvester	0	0	0	0	0	0	0	0	0	0	0
	Tracy Anne	0	0	0	0	0	0	0	0	0	0	0
	Neahkanie	0	0	0	0	0	0	0	0	0	0	0
	Sea Storm	0	0	0	0	0	0	0	0	0	0	0
	Muir Milach	0	0	0	0	0	0	0	0	0	0	0
	Total	423,679	16,906	164	125	0	2,688	2,759	1,806	1,652	52	44,299

\* Of the 440,585 tons of total groundfish catch (pollock and other non-pollock groundfish), only 4,607 tons were discarded. Thus, 99 percent of all groundfish harvested by PCC vessels in the directed-pollock fishery was retained and used to make a marketable product.

Table 3. PCC Yellowfin Sole Directed-Fishing Catch and Bycatch.

Vessel	Yellowfin Sole (mt)	Total Groundfish (mt)	Halibut Mortality (mt)	Herring (mt)	Red King Crab (N)	<i>Bairdi</i> Crab (N)	<i>Opilio</i> Crab (N)	Chinook Salmon (N)	Other Salmon (N)
American Triumph	1,683	2,209	1	0	403	4,690	17,006	0	0
Arctic Storm	3,670	4,655	8	0	0	313	3,196	0	0
Island Enterprise	1,357	1,608	1	0	0	5,087	42,742	0	0
Katie Ann	1,959	2,887	5	0	71	3,541	6,392	0	0
Northern Eagle	2,009	2,565	4	0	178	20,641	38,513	0	0
Northern Glacier	8,876	13,020	73	3	267	6,792	2,441	0	122
Northern Jaeger	1,661	2,109	0	0	0	6,048	20,790	0	0
Ocean Rover	1,429	1,736	0	0	169	7,486	28,029	0	0
Seattle Enterprise	1,255	1,437	0	0	0	4,770	53,522	0	0
2011 Total	23,900	32,226	92	3	1,088	59,368	212,631	0	122
Catch Rate	0.742	1.000	0.003	0.000	0.034	1.842	6.598	0.000	0.004

Table 4. PCC Species Sideboard Limits and Catch.

Species	2011 Catch	2011 Limit	Over (Under) Limit
Groundfish			
Alaska plaice - BSAI (mt)	3,043	14	3,029
Arrowtooth flounder - BSAI (mt)	716	44	672
Atka mackerel - BS + EAI (mt)	12	0	12
Atka mackerel - CAI (mt)	0	1,158	(1,158)
Atka mackerel - WAI (mt)	0	268	(268)
Flathead sole - BSAI (mt)	3,219	1,336	1,883
Greenland turbot - BS (mt)	21	21	(0)
Greenland turbot - AI (mt)	0	7	(7)
Kamchatka flounder - BSAI (mt)	59	30	29
Northern rockfish - BSAI (mt)	24	28	(4)
Octopus - BSAI (mt)	6	1	5
Other flatfish - BSAI (mt)	266	148	118
Other Rockfish - BS (mt)	2	15	(13)
Other Rockfish - AI (mt)	0	11	(11)
Pacific Ocean perch - BS (mt)	463	10	453
Pacific Ocean perch - EAI (mt)	0	101	(101)
Pacific Ocean perch - CAI (mt)	0	4	(4)
Pacific Ocean perch - WAI (mt)	0	30	(30)
Rock sole -BSAI (mt)	6,745	2,808	3,937
Rougheye rockfish - EBS+EAI (mt)	0	4	(4)
Rougheye rockfish - CAI+WAI (mt)	0	4	(4)
Sablefish - BS (mt)	0	19	(19)
Sablefish - AI (mt)	0	0	0
Sculpins - BSAI (mt)	447	35	412
Sharks - BSAI (mt)	24	0	24
Shortraker rockfish - BSAI (mt)	1	7	(6)
Skates - BSAI (mt)	1,724	112	1,612
Squid - BSAI (mt)	20	8	12
Prohibited Species			
Halibut mortality - BSAI (mt)	92	286	(194)
Red king crab - Zone 1 (N)	65	1,231	(1,166)
<i>C. opilio</i> crab - COBLZ (N)	212,631	1,135,453	(922,822)
<i>C. bairdi</i> crab - Zone 1 (N)	3,078	103,767	(100,689)
<i>C. bairdi</i> crab - Zone 2 (N)	56,290	112,518	(56,228)

Table 5. PCC Catches of Non-Pollock Groundfish by Vessel.

Vessel	Pacific Cod (mt)	Atka Mackerel BS (mt)	Atka Mackerel AI (mt)	Yellowfin Sole (mt)	Alaska Plaice (mt)	Arrowtooth Flounder (mt)	Kamchatka Flounder (mt)	Rock Sole (mt)	Flathead Sole (mt)
Alaska Ocean	517	0	0	32	2	49	2	764	208
American Dynasty	444	0	0	39	2	44	3	501	208
American Triumph	531	0	0	1,766	254	48	6	576	387
Arctic Fjord	222	0	0	11	0	26	3	200	137
Arctic Storm	444	0	0	3,729	439	24	4	405	245
Island Enterprise	313	0	0	1,392	124	29	2	161	124
Katie Anne	161	0	0	1,959	457	1	0	44	34
Kodiak Enterprise	323	9	0	12	0	29	3	244	114
Northern Eagle	320	0	0	2,142	231	30	2	445	274
Northern Glacier	1,019	0	0	8,876	1,096	209	6	676	240
Northern Hawk	247	0	0	2	0	34	4	316	130
Northern Jaeger	525	0	0	1,738	201	65	11	908	390
Ocean Rover	665	0	0	1,532	140	66	9	755	321
Pacific Glacier	230	0	0	8	0	33	2	336	167
Seattle Enterprise	187	2	0	1,260	95	8	1	175	54
Starbound	272	0	0	129	2	23	2	239	187
2011 Total	6,422	12	0	24,629	3,043	716	59	6,745	3,219



Table 5. PCC Catches of Non-Pollock Groundfish by Vessel (continued).

Vessel	Turbot BS (mt)	Turbot AI (mt)	Other Flatfish (mt)	Shortraker Rockfish (mt)	Rougheye Rockfish (mt)	Other Rockfish BS (mt)	Other Rockfish AI (mt)	Pacific Ocean Perch BS (mt)	Pacific Ocean Perch AI (mt)
Alaska Ocean	2	0	5	0	0	0	0	5	0
American Dynasty	2	0	3	1	0	0	0	2	0
American Triumph	2	0	26	0	0	0	0	1	0
Arctic Fjord	1	0	7	0	0	0	0	2	0
Arctic Storm	1	0	31	0	0	0	0	11	0
Island Enterprise	1	0	7	0	0	0	0	37	0
Katie Anne	0	0	15	0	0	0	0	0	0
Kodiak Enterprise	1	0	7	0	0	0	0	90	0
Northern Eagle	2	0	9	0	0	0	0	3	0
Northern Glacier	1	0	110	0	0	0	0	0	0
Northern Hawk	2	0	2	0	0	0	0	53	0
Northern Jaeger	3	0	21	0	0	0	0	48	0
Ocean Rover	3	0	10	0	0	1	0	79	0
Pacific Glacier	1	0	2	0	0	0	0	10	0
Seattle Enterprise	0	0	5	0	0	0	0	102	0
Starbound	0	0	6	0	0	0	0	21	0
2011 Total	21	0	266	1	0	2	0	463	0

Table 5. PCC Catches of Non-Pollock Groundfish by Vessel (continued).

Vessel	Northern Rockfish (mt)	Sablefish BS (mt)	Sablefish AI (mt)	Sculpins (mt)	Skates (mt)	Sharks (mt)	Octopus (mt)	Squid (mt)
Alaska Ocean	0	0	0	18	103	2	0	0
American Dynasty	0	0	0	13	134	2	0	3
American Triumph	0	0	0	50	275	2	0	1
Arctic Fjord	0	0	0	16	54	3	0	2
Arctic Storm	0	0	0	33	117	1	0	2
Island Enterprise	4	0	0	15	67	2	0	1
Katie Anne	0	0	0	18	43	0	0	0
Kodiak Enterprise	10	0	0	10	31	1	0	0
Northern Eagle	0	0	0	49	99	1	0	5
Northern Glacier	0	0	0	110	149	0	0	0
Northern Hawk	0	0	0	5	52	2	0	1
Northern Jaeger	1	0	0	40	215	2	5	1
Ocean Rover	5	0	0	29	199	1	0	1
Pacific Glacier	0	0	0	8	60	2	0	1
Seattle Enterprise	3	0	0	13	52	1	0	1
Starbound	1	0	0	18	74	1	0	1
2011 Total	24	0	0	447	1,724	24	6	20

Table 5. PCC Catches of Non-Pollock Groundfish by Vessel (continued).

Vessel	Halibut Mortality (mt)	Herring (mt)	Red King Crab (N)	<i>Bairdi</i> Crab Zone 1 (N)	<i>Bairdi</i> Crab Zone 2 (N)	<i>Opilio</i> Crab COBLZ (N)	Chinook Salmon (N)	Other Salmon (N)
Alaska Ocean	16	6	0	0	6	542	323	3,369
American Dynasty	18	6	0	0	182	199	375	4,761
American Triumph	25	4	403	0	4,703	17,049	239	2,677
Arctic Fjord	8	2	0	0	87	108	298	4,309
Arctic Storm	21	65	0	0	358	3,032	116	1,588
Island Enterprise	6	7	0	0	5,296	43,259	320	4,407
Katie Anne	5	0	71	1	3,540	6,346	0	0
Kodiak Enterprise	7	1	0	0	105	293	335	4,043
Northern Eagle	12	4	178	0	20,641	38,532	362	2,309
Northern Glacier	73	3	267	3,077	3,720	1,862	38	322
Northern Hawk	7	3	0	0	14	29	158	2,800
Northern Jaeger	19	15	0	685	6,329	21,268	148	2,660
Ocean Rover	19	8	169	1,004	7,498	28,086	201	2,374
Pacific Glacier	7	4	0	0	17	18	174	1,797
Seattle Enterprise	4	0	0	0	4,775	53,558	149	2,254
Starbound	8	1	0	0	18	30	222	4,803
2011 Total	256	127	1,088	4,767	57,289	214,211	3,458	44,473

Table 6. PCC Pollock-Fishery Discards.

Species Category	2011 Discard Amount (mt)	Year	Groundfish Bycatch Ratio (mt/mt) **	Groundfish Discard Ratio (mt/mt) ***
		1999	0.010	—
Pollock	363	2000	0.016	0.006
Other Roundfish	375	2001	0.011	0.006
Flatfish	3,326	2002	0.011	0.004
Skates	508	2003	0.010	0.004
Squid and Octopus	12	2004	0.012	0.005
Sharks	23	2005	0.005	0.004
	—	2006	0.007	0.004
Total Groundfish	4,607	2007	0.007	0.005
		2008	0.025	0.008
Forage	0	2009	0.040	0.010
Non-specified	2,717	2010	0.030	0.009
	—	2011	0.038	0.010
Total Discards *	7,325			

\* Does not include the prohibited species amounts listed in Table 2. By regulation, all prohibited crab species and halibut must be discarded while salmon may be discarded or donated to food banks.

\*\* Groundfish bycatch ratio is groundfish bycatch divided by total groundfish catch.

\*\*\* Groundfish discard ratio is groundfish discards divided by total groundfish catch.

Table 6a. Pollock Discards by Vessel.

Vessel	Amount (mt)
American Dynasty	0
American Triumph	0
Ocean Rover	0
Alaska Ocean	50
Northern Jaeger	0
Island Enterprise	0
Arctic Storm	0
Arctic Fjord	0
Northern Eagle	0
Pacific Glacier	11
Kodiak Enterprise	0
Starbound	284
Seattle Enterprise	6
Northern Hawk	0
Northern Glacier	12
2011 Total	363

Table 7. PCC Vessel Weeks on the Chum Dirty-20 List.

2011 Vessel	Other Salmon Pollock B (weeks)
American Dynasty	3
American Triumph	1
Northern Eagle	2
Northern Jaeger	3
Ocean Rover	2
Arctic Fjord	1
Arctic Storm	0
Northern Hawk	2
Alaska Ocean	3
Northern Glacier	0
Pacific Glacier	0
Starbound	3
Island Enterprise	4
Kodiak Enterprise	4
Seattle Enterprise	2
Maximum All Pollock Vessels	9

Table 7a. PCC Vessel Weeks on the Dirty-20 Lists (corrected).

2010 Vessel	Chinook Pollock A + B (weeks)	Other Salmon Pollock B (weeks)
American Dynasty	4	0
American Triumph	2	1
Northern Eagle	2	1
Northern Jaeger	2	3
Ocean Rover	0	1
Arctic Fjord	0	1
Arctic Storm	3	1
Northern Hawk	6	0
Alaska Ocean	4	0
Pacific Glacier	2	0
Starbound	1	2
Island Enterprise	5	4
Kodiak Enterprise	2	0
Seattle Enterprise	3	3
Maximum All Pollock Vessels	10	9

Table 8. HSCC BSAI Pacific Cod Directed-Fishing Catch and Bycatch.

Vessel	Pacific Cod (mt)	Total Groundfish (mt)	Halibut Mortality (mt)	Red King Crab (N)	<i>Bairdi</i> Crab (N)	<i>Opilio</i> Crab (N)	Herring (mt)	Chinook Salmon (N)	Other Salmon (N)
Sea Storm	1,498	1,742	10	0	359	118	0	6	0
Ocean Harvester	1,338	1,527	8	0	317	88	0	0	0
Muir Milach	1,340	1,430	5	82	49	8	0	18	9
Forum Star	733	763	1	9	4	0	0	12	4
2011 Total	4,909	5,463	24	91	728	214	0	36	13
Catch Rate	0.899	1.000	0.004	0.017	0.133	0.039	0.000	0.007	0.002

Table 9. HSCC Catch of BSAI Groundfish.

Species	2011 Catch (mt)
Pacific Cod *	4,919
Pollock BS	354
Pollock AI	15
Rocksole	86
Flathead Sole	14
Arrowtooth Flounder	16
Kamchatka Flounder	0
Alaska Plaice	0
Other Flatfish	3
Yellowfin Sole	0
Atka Mackerel BS + EAI	0
Atka Mackerel CAI	1
Northern Rockfish	1
Other Rockfish BS	0
Other Rockfish AI	1
Pacific Ocean Perch EAI	0
Pacific Ocean Perch CAI	0
Rougheye Rockfish	0
Octopus	1
Sculpins	30
Skates	21
Squid	0

\* The ten ton discrepancy between tables 8 and 9 reflects an uncertain discard estimate.