

MEMORANDUM

TO: Council and AP members
FROM: ^{DO} Chris Oliver ^{for}
Executive Director
DATE: January 20, 2010
SUBJECT: American Fisheries Act

ACTION REQUIRED

Review AFA cooperative agreements and end of year cooperative reports

Julie's note

BACKGROUND

Each year the AFA pollock fishery cooperatives are required to submit year-end reports summarizing their fishing activities from the preceding year. They are also required to submit cooperative agreements for the upcoming fishing year (we have interpreted this requirement such that the cooperatives submit information only if and to what degree such agreements have been modified from existing agreements). Due to the volume of these materials, a few copies of the complete reports will be made available at the meeting, and full copies are available from our offices. Co-op representatives will provide a summary report to the Council at this meeting.



AT-SEA PROCESSORS ASSOCIATION

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February 2, 2010

Mr. Eric Olson, Chairman
North Pacific Fishery Management Council
605 West 4th, Suite 306
Anchorage, AK 99501

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Dear Chairman Olson:

At the December meeting of the North Pacific Council I agreed to gather information about the BSAI Prohibited Species Donation (PSD) program. SeaShare, a 501(c) (3) non-profit organization founded in 1994, is the only organization authorized by the Alaska Regional Administrator to distribute salmon donated through the PSD program. SeaShare has partnered with most BSAI pollock harvesters and processors to accept donations of incidentally harvested salmon, and then distribute the salmon to hunger relief agencies and food banks.

The PSD program is just one of many SeaShare efforts to turn donated seafood into nutritious meals for hungry Americans. Since its inception, SeaShare has provided over 23 million pounds of seafood for hunger relief. The BSAI PSD provides only about five percent of the seafood donated to SeaShare. SeaShare also accepts donations of Alaska pollock as part of the At-sea Processors Association (APA) *Community Catch* program. APA companies donate processed pollock products sufficient to produce one million meals each year by diverting shipments that would otherwise supply commercial markets.

Below is a partial list of awards recognizing the important work of SeaShare:

- 2009 Outstanding Food Donor – Food Lifeline, Seattle, WA
- 2009 Certificate of Appreciation – Food Bank of Alaska, Anchorage, AK
- 2008 Evergreen Award for Groundbreaking Work in Partnerships and Collaboration from the Seattle-based Executive Alliance at the 14th Annual Washington State Non-profit Conference
- 2006 Sustainable Fisheries Leadership Award in the categories of Community Service, Media, and Public Education from NOAA-U.S. Dept. of Commerce;
- Feeding America Hunger's Hope Award (1995-2001)
- 1999 Environmental Hero Award from NOAA, presented by Vice President Al Gore



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As an authorized organization, SeaShare is required to provide NOAA Fisheries a list of participating vessels and processors, including the federal fisheries permit numbers of each participant. For 2010, four shoreside-processor companies and the catcher vessels eligible to deliver to them, all five catcher-processor companies, and one mothership vessel and its catcher vessel fleet are signed up to participate in the PSD program. One of the shoreside processors and the mothership vessel are new to the program this year. According to SeaShare, all of the other participants have been in the program since at least 1998.

Salmon bycatch accounting is the responsibility of the North Pacific Groundfish Observer Program, which records salmon bycatch in numbers of fish. But federal regulations (50 CFR 679.26(d)) require companies that donate salmon to "*at a minimum, must head, gut, and freeze the fish in a manner that makes it fit for human consumption.*" The headed-and-gutted salmon are shipped to another processor, which then forwards mainly steaked products to SeaShare. SeaShare receives the processed salmon and records the donations as amounts of salmon available for distribution. As such, assumptions must be made to relate SeaShare records to numbers of bycatch salmon.

SeaShare has shared with APA information provided to NOAA Fisheries. Since 2000, annual PSD salmon donations have varied from a low of approximately 33,000 pounds to a high of nearly 490,000 pounds. The amounts represent steaked and finished pounds distributed to food banks. While there are ups and downs in the amounts of donated salmon, the changes don't appear to correspond well with the number of bycatch salmon. SeaShare does not know why the salmon donations change, other than that company participation varies significantly year to year. SeaShare reaches out to the industry regularly to increase participation and find ways to make the program more practical.

APA analyzed the SeaShare records in an effort to calculate the fraction of salmon bycatch by catcher-processor vessels that is donated through the PSD program. Estimates vary depending on the recovery rate assumed, but using a reasonable estimate of recovery, our fleet donated 25 to 30 percent of bycatch salmon in 2009. This appears to be higher than past years.

Mr. Chairman, I hope that you and your fellow Council members find this brief overview of Alaska pollock catcher processors participation in the PSD program to be informative. Please don't hesitate to contact me if you need additional information.

Sincerely,



Stephanie Madsen
Executive Director

cc: Jim Harmon, SeaShare

Pollock Conservation Cooperative

and

High Seas Catchers' Cooperative

Final

Joint Annual Report 2009

North Pacific Fishery Management Council

February 1, 2010

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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.¹

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

¹ The NMFS catch database for the 2009 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.

Pollock Conservation 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 sector of the BSAI pollock trawl fisheries. The PCC is made up of the companies that operate 19 catcher-processors 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. In 2008, the membership agreement was amended to reflect a change in ownership of the F/T Highland Light, which was purchased by HLTA LLC, a wholly owned subsidiary of the American Seafoods Company, and of the F/T Alaska Ocean, which was purchased by Glacier Fish Company. 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.²

	Directed Pollock Fishery (%)	PCC Share (%)
Starbound Ltd. Partnership	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 Company	18.336	50.10
Total	<u>36.600</u>	<u>100.00</u>

² 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.

Participation in BSAI Sideboard Fisheries

Seven PCC vessels participated in the BSAI directed fisheries for Pacific cod and yellowfin sole in 2009. The groundfish catches and PSC bycatch in these fisheries is shown in Tables 3 and 4. Catch rates are provided in these tables to assess target catch and PSC bycatch per ton of total groundfish catch. So for example, on average 3.7 *bairdi* crab were caught per ton of groundfish in the yellowfin sole directed fishery, and yellowfin sole catches were on average 65 percent of the total groundfish catch. PCC sideboard limits and catches of sideboard-limited species are shown in Table 5. Table 6 shows catches of all non-pollock groundfish and PSC species by species category and vessel from all PCC directed fisheries (pollock, Pacific cod, and yellowfin sole).

Pollock Fishery Discards Detail

Groundfish bycatch amounts in the pollock target fishery are reported in Table 2 as by-vessel and total amounts of other (non-pollock) groundfish.³ These groundfish bycatch amounts include all of the species included on the Bering Sea and Aleutian Islands "TAC sheet." In contrast to groundfish bycatch, groundfish discards include all groundfish catches, including pollock, from which no edible, saleable product can be produced. An estimate of the total groundfish discard amounts is provided as a footnote to Table 2. Table 7 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. In general, the non-specified species 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 2009, jellyfish comprised over 99 percent of PCC non-specified species bycatch and discards in the directed pollock fishery. Table 7a shows pollock-fishery discards of pollock by vessel.

³ 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 used 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.

Inter-Cooperative Agreement on Salmon Bycatch Avoidance

In 2009, all BSAI pollock cooperatives voluntarily participated in an inter-cooperative salmon bycatch avoidance (hot-spot closure) program. The PCC began participating in the program in 2001, and since then has worked to improve the program. An A-season closure area was added to the program for 2008 (Chinook Conservation Area). This 735 square-mile area covers a portion of the Bering Canyon, and remains closed to all pollock fishing for the entire A-season. The area was selected based on an analysis of A-season fishery data from 1995-2007, and in recent years, the area included nearly 20 percent of Chinook salmon bycatches but only 2-3 percent of pollock catches.

An analysis of the number of salmon avoided by the program is available from the NPFMC. During the 2009 pollock A-season there were 25 closures in addition to the Chinook Conservation Area closure. Of these there were 8 for which post-closure observer data was available from vessels fishing inside the areas just prior to the closures (i.e., bycatch from these vessels motivated the area closures). Examination of this data showed that for the approximately 8,400 tons of observed post-closure pollock catches associated with boats that fished inside areas just before they were closed, there was a bycatch of 117 Chinook while an estimated 2,068 Chinook were avoided. This represented a reduction of about 95 percent from the bycatch that would have been expected (2,185 Chinook salmon) had the vessels continued to fish in the closed areas.

For the 2008 B-season, 39 closures were put in place, and for 18 of these combination Chinook and chum salmon area closures both pre- and post-closure observer data was available for analysis. Examination of these data showed that for these 18 Chinook and chum closures, about 12,000 tons of post-closure pollock catch could be tracked from vessels with salmon bycatch that motivated the closures. For this pollock catch, Chinook bycatch was 152 fish compared to an expected bycatch of 417 Chinook had these vessels continued to fish in the areas that were closed. As such, savings were estimated at 265 Chinook. For these same post-closure pollock catches, chum savings were estimated at 7,438 fish from an expected chum bycatch of 10,046 had vessels continued to fish in the areas that were closed. Here the estimated fraction of chum salmon bycatch avoided was 74 percent. PCC vessel appearances on the 2009 "Dirty-20" lists for Chinook and Other Salmon (chum) are shown in Table 8.

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 the catch 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 2009, more than 99 percent of pollock hauls were sampled. For those 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 vessel 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 occur near the end of the season to ensure quota usage. No enforcement actions were taken by the PCC against any members during 2009

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, Neahkahnne, 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 2009, 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 2009 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	1,719
American Challenger	2,217
Ocean Harvester	3,045
Muir Milach	3,195
Tracy Anne	3,269
Neahkahnne	4,703
Sea Storm	5,792
Total	<u>23,941</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 on file at 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 Tables 2 and 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.

Participation in BSAI Shellfish Fisheries

The BSAI crab rationalization program was implemented in August 2005. As part of that program, the American Fisheries Act crab sideboards were eliminated. The HSCC vessel Forum Star leased all of its scallop catch history and so did not catch any scallops in 2009.

Participation in BSAI Sideboard Fisheries

One HSCC exempt vessel and three non-exempt vessels participated in the directed Pacific cod fishery in 2009 and caught a total of 4,866 metric tons of cod. Table 9 shows target, bycatch, and prohibited species catches for this fishery. Catch rates are provided in these tables to assess target catch and PSC usage. Total groundfish catches by all HSCC vessels are shown for the BSAI area in Table 10.

Participation in Gulf of Alaska Sideboard Fisheries

Two HSCC vessels participated in the Gulf of Alaska pollock fishery in 2009. Table 11 shows target, bycatch, and prohibited species catches for this fishery.

Sideboard Harvest 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). The regulations allow two or more cooperatives to enter into an inter-cooperative agreement where member catches are limited by their combined aggregate sideboard caps. Table 12 provides the initial sideboard limits, the adjusted sideboard limits for HSCC vessels based on transfers, and the actual harvest of sideboard species by HSCC vessels. There were no HSCC-member overages in any sideboard-limited fisheries.

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 & Game (ADF&G) fish tickets to SeaState, Inc. for tabulation through the NMFS Electronic Fish Ticket Program. In addition, HSCC member companies provided confidentiality waiver requests to ADF&G 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 in either pollock or sideboard fisheries, as members complied with the provisions of the membership agreement.

Table 1. PCC and HSCC Pollock Allocations and Catch.

2009	Company	Vessel	Cooperative Shares (mt)			Catch (mt)			
			Harvest Schedule	Transfers	Allocation	Vessel	Company Total	Over (under) Allocation	
PCC	American Seafoods Company		128,691	-6,288	122,403		122,403	0	
		American Triumph				31,623			
		Northern Eagle				30,624			
		Northern Hawk				29,570			
		Northern Jaeger				18,302			
		Ocean Rover				12,284			
	Arctic Fjord Ltd.	Arctic Fjord	12,577	4,690	17,267	17,267	17,267	0	
	Arctic Storm Ltd.	Arctic Storm	12,921	5,797	18,718	18,718	18,718	0	
	Glacier Fish Company		43,669	13,509	57,178		57,178	0	
		Alaska Ocean				32,338			
		Northern Glacier				7,680			
		Pacific Glacier				17,160			
	Starbound Ltd.	Starbound	11,124	6,399	17,523	17,523	17,523	0	
	Trident Seafoods Corporation		47,894	-166	47,728		47,722	(6)	
		Island Enterprise				13,311			
		Kodiak Enterprise				16,680			
		Seattle Enterprise				17,732			
	HSCC		Forum Star	1,719	-1,719	0		0	
			American Challenger	2,217	-2,217	0		0	
			Ocean Harvester	3,045	-3,045	0		0	
		Tracy Anne	3,269	-3,269	0		0		
		Neahkanie	4,703	-4,703	0		0		
		Sea Storm	5,792	-5,792	0		0		
		Muir Milach	3,195	-3,195	0		0		
Total		280,817	0	280,817	280,811	280,811	(6)		

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

2009	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 Triumph	31,623	1,436	28	0	0	179	31	146	39	0	436
	Northern Eagle	30,624	1,725	32	1	0	16	62	169	29	0	385
	Northern Hawk	29,570	1,073	22	1	0	9	69	514	48	0	422
	Northern Jaeger	18,302	336	7	0	0	46	63	0	24	0	555
	Ocean Rover	12,284	1,077	13	0	0	7	0	541	0	0	0
	Arctic Fjord	17,267	689	14	0	0	9	43	111	6	0	262
	Arctic Storm	18,718	790	16	0	0	19	61	293	52	0	383
	Alaska Ocean	32,338	1,625	38	0	0	11	847	189	0	6	96
	Northern Glacier	7,680	552	11	0	4	70	23	161	0	0	0
	Pacific Glacier	17,160	119	1	0	0	6	14	0	7	0	334
	Starbound	17,523	784	19	0	0	22	46	244	3	0	119
	Island Enterprise	13,311	449	9	0	0	295	527	198	3	0	81
	Kodiak Enterprise	16,680	474	11	0	0	39	251	125	15	0	348
	Seattle Enterprise	17,732	398	8	0	0	17	44	49	84	0	473
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	36	0	0	0	0	8	0	0	0	0
Totals	280,811	11,566	227	2	4	745	2,089	2,740	310	6	3,895	

* Of the 292,377 tons of total groundfish catch (pollock and other non-pollock groundfish), only 4,685 tons were discarded. Thus, 98 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 Pacific Cod Directed-Fishing Catch and Bycatch.

Vessel	Pacific Cod (mt)	Total Groundfish (mt)	Halibut Mortality (mt)	Herring (mt)	Red King Crab (N)	Bairdi Crab (N)	Opilio Crab (N)	Chinook Salmon (N)	Other Salmon (N)
Katie Ann	808	843	2	0	0	79	0	60	7
Catch Rate	0.958	1.000	0.002	0.000	0.000	0.094	0.000	0.071	0.008

Table 4. PCC Yellowfin Sole Directed-Fishing Catch and Bycatch.

Vessel	Yellowfin Sole (mt)	Total Groundfish (mt)	Halibut Mortality (mt)	Herring (mt)	Red King Crab (N)	Bairdi Crab (N)	Opilio Crab (N)	Chinook Salmon (N)	Other Salmon (N)
American Triumph	2,613	4,094	31	0	1,377	5,173	2,542	0	0
Island Enterprise	840	1,280	5	0	305	6,413	2,364	0	0
Katie Ann	903	1,210	5	0	0	1,548	152	0	0
Northern Eagle	2,486	3,846	36	0	1,113	28,988	24,452	0	0
Northern Glacier	1,079	1,519	8	0	662	8,928	3,625	0	0
Northern Hawk	1,510	2,419	27	0	561	1,409	681	0	0
Ocean Rover	1,053	1,940	26	0	1,178	10,024	3,598	0	0
Seattle Enterprise	857	1,026	2	0	218	1,615	304	0	0
2009 Total	11,342	17,334	141	0	5,414	64,098	37,718	0	0
Catch Rate	0.654	1.000	0.008	0.000	0.312	3.698	2.176	0.000	0.000

Table 5. PCC Sideboard Limits and Catches of Sideboard Species.

Species	2009 Catch	2009 Limit	Over (Under) Limits
Sablefish - BS (mt)	0	18	(18)
Atka Mackerel - BS + EAI (mt)	1	n.a.	
Atka Mackerel - Central (mt)	0	3,338	(3,338)
Atka Mackerel - Western (mt)	0	3,018	(3,018)
Yellowfin Sole (mt)	11,490	n.a.	
Rock sole (mt)	5,004	2,974	2,030
Greenland Turbot - BS (mt)	33	30	3
Greenland Turbot - AI (mt)	0	10	(10)
Arrowtooth flounder (mt)	731	128	603
Flathead Sole (mt)	2,463	1,929	534
Other flatfish (mt)	103	858	(755)
Alaska plaice (mt)	1,097	43	1,054
Pacific Ocean Perch - BS (mt)	19	6	13
Pacific Ocean Perch - EAI (mt)	2	75	(73)
Pacific Ocean Perch - CAI (mt)	0	4	(4)
Pacific Ocean Perch - WAI	0	23	(23)
Shortraker rockfish (BSAI)	4	7	(3)
Rougeye rockfish (BSAI)	0	10	(10)
Northern rockfish (BSAI)	2	50	(48)
Other Rockfish - BS (mt)	2	14	(12)
Other Rockfish - AI (mt)	0	13	(13)
Squid (mt)	59	37	22
Other Species (mt)	2,794	340	2,454
Halibut Mortality (mt)	370	286	84
Herring (mt)	2	n.a.	
Chinook (N)	3,110	n.a.	
Other Salmon (N)	3,908	n.a.	
Red King Crab - Zone 1 (N)	5,418	1,231	4,187
Other Tanner crab - COBLZ (N)	39,800	594,336	(554,536)
Bairdi zone 1 (N)	12,924	122,520	(109,596)
Bairdi zone 2 (N)	51,894	132,611	(80,717)

Table 6. 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)	Other Flatfish (mt)	Rock Sole (mt)
Alaska Ocean	613	0	0	8	23	87	7	382
American Triumph	459	0	0	2,617	255	97	13	864
Arctic Fjord	263	0	0	1	4	40	3	126
Arctic Storm	262	0	0	0	2	56	4	157
Island Enterprise	175	0	0	863	57	21	6	351
Katie Anne	835	0	0	903	33	17	2	91
Kodiak Enterprise	184	0	0	1	2	37	3	99
Northern Eagle	586	0	0	2,567	362	89	13	834
Northern Glacier	160	0	0	1,080	104	34	7	355
Northern Hawk	339	0	0	1,510	134	80	15	678
Northern Jaeger	133	0	0	0	0	24	0	1
Ocean Rover	404	0	0	1,057	99	55	19	706
Pacific Glacier	58	0	0	0	0	8	0	0
Seattle Enterprise	105	0	0	882	14	22	3	212
Starbound	242	0	0	0	9	63	8	147
2009 Total	4,817	1	1	11,490	1,097	731	103	5,004

Table 6. PCC Catches of Non-Pollock Groundfish by Vessel (continued).

Vessel	Flathead Sole (mt)	Squid (mt)	Other Species (mt)	Other Rockfish BS (mt)	Other Rockfish AI (mt)	Pacific Ocean Perch BS (mt)	Pacific Ocean Perch AI (mt)
Alaska Ocean	229	7	265	0	0	0	0
American Triumph	314	9	491	1	0	0	0
Arctic Fjord	124	0	113	0	0	15	0
Arctic Storm	137	0	170	0	0	0	0
Island Enterprise	99	4	112	0	0	0	0
Katie Anne	97	0	49	0	0	0	0
Kodiak Enterprise	81	0	67	0	0	0	0
Northern Eagle	362	0	457	0	0	1	0
Northern Glacier	132	0	165	0	0	0	0
Northern Hawk	255	22	354	0	0	1	0
Northern Jaeger	144	0	28	0	0	0	0
Ocean Rover	206	17	262	0	0	0	0
Pacific Glacier	32	0	19	0	0	0	0
Seattle Enterprise	92	0	85	0	0	1	0
Starbound	156	0	156	0	0	0	0
2009 Total	2,463	59	2,794	2	0	19	0

Table 6. PCC Catches of Non-Pollock Groundfish by Vessel (continued).

Vessel	Northern Rockfish (mt)	Shortraker Rockfish (mt)	Rougheye Rockfish (mt)	Shortraker/Rougheye (mt)	Turbot BS (mt)	Turbot AI (mt)	Sablefish BS (mt)	Sablefish AI (mt)
Alaska Ocean	0	0	0	0	2	0	0	0
American Triumph	0	0	0	0	4	0	0	0
Arctic Fjord	0	0	0	0	2	0	0	0
Arctic Storm	0	0	0	0	1	0	0	0
Island Enterprise	0	0	0	0	0	0	0	0
Katie Anne	0	0	0	0	0	0	0	0
Kodiak Enterprise	0	0	0	0	0	0	0	0
Northern Eagle	0	0	0	0	7	0	0	0
Northern Glacier	0	0	0	0	0	0	0	0
Northern Hawk	0	2	0	0	5	0	0	0
Northern Jaeger	0	0	0	0	5	0	0	0
Ocean Rover	0	1	0	0	0	0	0	0
Pacific Glacier	0	0	0	0	2	0	0	0
Seattle Enterprise	1	0	0	0	2	0	0	0
Starbound	0	0	0	0	3	0	0	0
2009 Total	2	4	0	0	33	0	0	0

Table 6. PCC Catches of Non-Pollock Groundfish by Vessel (continued).

Vessel	Halibut Mortality (mt)	Herring (mt)	Red King Crab (N)	Zone 1 Bairdi Crab (N)	Zone 2 Bairdi Crab (N)	Other Tanner Crab (COBLZ-N)	Chinook Salmon (N)	Other Salmon (N)
Alaska Ocean	38	0	1,377	0	11	847	189	102
American Triumph	58	0	0	1,515	3,825	2,573	185	436
Arctic Fjord	14	0	0	0	9	43	117	262
Arctic Storm	16	0	305	3	16	61	345	383
Island Enterprise	14	0	0	2,804	3,904	2,891	201	81
Katie Anne	7	0	0	1,548	0	152	60	7
Kodiak Enterprise	11	0	1,113	4	35	251	140	348
Northern Eagle	68	1	666	1,648	27,353	24,514	198	385
Northern Glacier	20	0	561	1,238	7,760	3,649	161	0
Northern Hawk	49	1	0	310	1,108	750	562	422
Northern Jaeger	7	0	1,178	0	46	63	24	555
Ocean Rover	39	0	0	2,419	7,605	3,598	541	0
Pacific Glacier	1	0	218	0	6	14	7	334
Seattle Enterprise	10	0	0	1,435	197	348	133	473
Starbound	19	0	0	0	19	46	247	119
2009 Total	370	2	5,418	12,924	51,894	39,800	3,110	3,908

Table 7. PCC Pollock-Fishery Discards.

Species Category	2009 Discard Amount (mt)	Year	Groundfish Bycatch Ratio ** (mt/mt)	Groundfish Discard Ratio *** (mt/mt)
Pollock	156			
Other Roundfish	44	1999	0.010	—
Flatfish	3,204	2000	0.016	0.006
Other Species	1,273	2001	0.011	0.006
Squid	7	2002	0.011	0.004
		2003	0.010	0.004
Total Groundfish	4,685	2004	0.012	0.005
		2005	0.005	0.004
Forage	0	2006	0.007	0.004
Non-specified Species	2,625	2007	0.007	0.005
		2008	0.025	0.008
Total Discards *	7,310	2009	0.040	0.016

* 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 7a. PCC Pollock Discards by Vessel.

Vessel	Amount (mt)
Alaska Ocean	0
American Triumph	0
Arctic Fjord	42
Arctic Storm	0
Island Enterprise	26
Kodiak Enterprise	0
Northern Eagle	21
Northern Glacier	0
Northern Hawk	25
Northern Jaeger	0
Ocean Rover	27
Pacific Glacier	0
Seattle Enterprise	1
Starbound	12
2009 Total	155

Table 8. PCC Vessels on the Dirty-20 Lists.

2009 Vessel	Chinook A (weeks)	Chinook B (weeks)	Other Salmon (Chum) B (weeks)
Alaska Ocean	1	0	0
American Triumph	2	0	0
Northern Eagle	1	0	0
Northern Hawk	4	1	1
Northern Jaeger	0	0	0
Ocean Rover	4	0	0
Arctic Fjord	0	0	0
Arctic Storm	3	0	0
Northern Glacier	3	0	0
Pacific Glacier	0	0	0
Starbound	3	0	0
Island Enterprise	3	0	0
Kodiak Enterprise	1	0	0
Seattle Enterprise	0	1	1

Table 9. HSCC BSAI Pacific Cod Directed-Fishing Catch and Bycatch.

Vessel	Pacific Cod (mt)	Total Groundfish (mt)	Halibut Mortality (mt)	Red King Crab (N)	Bairdi Crab (N)	Opilio Crab (N)	Herring (mt)	Chinook Salmon (N)	Other Salmon (N)
Ocean Harvester	565	697	6	0	486	329	0	0	0
Sea Storm	457	616	9	0	396	314	0	31	0
Muir Milach	1,617	1,727	3	0	25	31	0	29	0
Forum Star	2,226	2,250	0	10	0	0	0	138	0
2009 Total	4,866	5,290	17	10	907	674	0	198	0
Catch Rate	0.920	1.000	0.003	0.002	0.172	0.127	0.000	0.037	0.000

Table 10. HSCC Catches of BSAI Groundfish.

Species	2009 Catch (mt)
Alaska Plaice	5
Arrowtooth Flounder	190
Flathead Sole	174
Atka Mackerel - BS + EAI	3
Northern Rockfish	16
Other Flatfish	38
Other Rockfish	0
Other Species	253
Pacific Cod	4,866
Pollock BS	624
Pollock AI	88
Pacific Ocean Perch BS	0
Pacific Ocean Perch AI	1
Rock Sole	274
Rougheye Rockfish	0
Greenland Turbot	
Yellowfin Sole	10

Table 11. HSCC GOA Pollock Directed-Fishing Catch and Bycatch.

Vessel	Pollock (mt)	Total Groundfish (mt)	Halibut Mortality (mt)	Red King Crab (N)	Bairdi Crab (N)	Opilio Crab (N)	Herring (mt)	Chinook Salmon (N)	Other Salmon (N)
Sea Storm	149	158	0	0	0	0	0	1	0
Muir Milach	176	178	0	0	0	0	0	13	6
2009 Total	325	336	0	0	0	0	0	14	6
Catch Rate	0.967	1.000	0.000	0.000	0.000	0.000	0.000	0.042	0.018

Table 12. HSCC Sideboard Limits and Catches of Sideboard Species.

Area/Species	Initial Sideboard Allocation (mt)	In-Season Transfers (mt)	Final Sideboard Allocation (mt)	2009 Harvest (mt)	Over (Under) Limit (mt)
BSAI Pacific Cod (non-exempt)	2,644	472	3,116	2,640	(476)
BSAI Pacific Cod (exempt)			none	2,226	
BSAI Yellowfin Sole	0		0	10	10
BSAI Rock Sole	0		0	274	274
EGOA Pacific Cod	0		0	0	0
CGOA Pacific Cod (Inshore + Offshore)	120	-72	48	0	(48)
WGOA Pacific Cod (Inshore + Offshore)	228	0	228	0	(228)
CGOA Pollock	37	-23	14	0	(14)
WGOA Pollock	28	325	353	332	(21)