

Pollock Conservation Cooperative

and

High Seas Catchers' Cooperative

Final

Joint Annual Report 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 2010 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. 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. ²

	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>

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

Ten PCC vessels participated in the BSAI directed fisheries for Pacific cod and yellowfin sole in 2010. 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 2.7 *bairdi* crab were caught per ton of groundfish in the yellowfin sole directed fishery, and yellowfin sole catches were on average 80 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 (walleye 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 catches of all of the species groups except pollock listed 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 amount 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 2010, jellyfish comprised about 94 percent of PCC non-specified species bycatch and discards in the directed pollock fishery. Table 7a shows discards of pollock by vessel during the pollock-fishery.

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 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.

Inter-Cooperative Agreement on Salmon Bycatch Avoidance

In 2010, 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.

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 2010, 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 2010.

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 2010, 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 2010 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	1,726
American Challenger	2,226
Ocean Harvester	3,057
Muir Milach	3,208
Tracy Anne	3,282
Neahkahnie	4,722
Sea Storm	5,815
Total	<u>24,036</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 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.

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 2010.

Participation in BSAI Sideboard Fisheries

One HSCC exempt vessel and three non-exempt vessels participated in the directed Pacific cod fishery in 2010 and caught a total of 3,878 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 for the BSAI area are shown in Table 10.

Participation in Gulf of Alaska Sideboard Fisheries

One HSCC vessel participated in the Gulf of Alaska pollock fishery in 2010. 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.

2010	Company	Vessel	Cooperative Shares (mt)			Catch (mt)		
			Harvest Schedule	Transfers	Allocation	Vessel	Company Total	Over (under) Allocation
PCC	American Seafoods Company		129,206	-5,608	123,599		123,598	0
		American Dynasty				5,417		
		American Triumph				28,683		
		Northern Eagle				30,092		
		Northern Hawk				9,683		
		Northern Jaeger				30,372		
		Ocean Rover				19,351		
	Arctic Fjord Ltd.	Arctic Fjord	12,627	4,789	17,415	17,415	17,415	0
	Arctic Storm Ltd.	Arctic Storm	12,972	5,748	18,720	18,720	18,720	0
	Glacier Fish Company		43,840	11,971	55,811		55,811	0
		Alaska Ocean				37,931		
		Pacific Glacier				17,880		
	Starbound Ltd.	Starbound	11,168	7,136	18,304	18,304	18,304	0
	Trident Seafoods Corporation		48,882	0	48,882		48,855	(27)
		Island Enterprise				24,463		
		Kodiak Enterprise				6,426		
		Seattle Enterprise				17,967		
HSCC		Forum Star	1,726	-1,726	0		0	
		American Challenger	2,226	-2,226	0		0	
		Ocean Harvester	3,057	-3,057	0		0	
		Tracy Anne	3,282	-3,282	0		0	
		Neahkanie	4,722	-4,722	0		0	
		Sea Storm	5,815	-5,815	0		0	
		Muir Milach	3,208	-3,208	0		0	
		Total	282,731	0	282,731	282,704	282,704	(27)

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

2010	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	5,417	341	2	3	0	0	7	146	0	0	0
	American Triumph	28,683	882	10	7	0	5	103	173	0	0	201
	Northern Eagle	30,092	914	10	113	0	0	82	181	1	0	159
	Northern Hawk	9,683	668	8	69	0	179	20	304	0	1	0
	Northern Jaeger	30,372	1,307	9	56	0	19	78	146	18	0	202
	Ocean Rover	19,351	185	6	1	0	4	5	0	3	0	165
	Arctic Fjord	17,415	489	7	6	0	2	49	131	1	0	145
	Arctic Storm	18,720	616	7	0	0	39	262	223	3	0	174
	Alaska Ocean	37,931	1,511	26	27	0	43	165	578	3	13	171
	Pacific Glacier	17,880	552	4	34	0	22	25	289	0	0	25
	Starbound	18,304	430	9	1	0	10	77	182	3	3	92
	Island Enterprise	24,463	404	2	5	0	239	2,385	283	16	3	370
	Kodiak Enterprise	6,426	297	5	0	0	18	106	282	0	8	0
Seattle Enterprise	17,967	267	3	0	0	12	28	139	3	0	381	
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
Totals	282,704	8,862	106	323	0	592	3,392	3,057	51	28	2,086	

* Of the 291,566 tons of total groundfish catch (pollock and other non-pollock groundfish), only 2,511 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 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	419	451	1	0	25	5	0	84	1
Catch Rate	0.928	1.000	0.003	0.000	0.055	0.011	0.000	0.186	0.002

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 Dynasty	2,065	2,499	4	0	0	4,572	37,565	0	0
American Triumph	3,655	4,643	5	0	0	8,399	147,430	0	0
Arctic Storm	25	49	1	0	0	0	0	0	0
Island Enterprise	1,304	1,559	2	0	0	3,557	479,897	8	0
Kodiak Enterprise	8	51	1	0	0	0	0	0	0
Northern Eagle	3,508	4,605	4	0	0	22,902	197,000	0	0
Northern Hawk	3,413	4,223	5	0	0	5,204	10,617	0	0
Northern Jaeger	3,372	4,134	6	0	0	15,130	337,638	0	0
Seattle Enterprise	2,132	2,511	3	0	9	6,341	169,151	0	0
2010 Total	19,482	24,275	29	0	9	66,105	1,379,298	8	0
Catch Rate	0.803	1.000	0.001	0.000	0.000	2.723	56.819	0.000	0.000

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

Species	2010 Catch	2010 Limit	Over (Under) Limits
Alaska plaice (mt)	2,483	43	2,440
Arrowtooth flounder (mt)	413	128	285
Atka Mackerel - BS + EAI (mt)	11	n.a.	
Atka Mackerel - Central (mt)	0	3,040	(3,040)
Atka Mackerel - Western (mt)	0	3,680	(3,680)
Flathead Sole (mt)	2,749	1,929	820
Greenland Turbot - AI (mt)	0	8	(8)
Greenland Turbot - BS (mt)	17	25	(8)
Northern rockfish (BSAI)	9	51	(42)
Other flatfish (mt)	191	853	(662)
Other Rockfish - AI (mt)	0	13	(13)
Other Rockfish - BS (mt)	1	14	(13)
Other Species (mt)	1,410	340	1,070
Pacific Cod (mt)	4,042	n.a.	
Pacific Ocean Perch - BS (mt)	136	7	129
Pacific Ocean Perch - CAI (mt)	0	4	(4)
Pacific Ocean Perch - EAI (mt)	0	75	(75)
Pacific Ocean Perch - WAI (mt)	0	23	(23)
Rock sole (mt)	1,221	2,974	(1,753)
Rougheye rockfish (BSAI)	0	10	(10)
Sablefish - BS (mt)	0	19	(19)
Shortraker rockfish (BSAI)	1	7	(6)
Squid (mt)	20	37	(17)
Yellowfin Sole (mt)	20,132	n.a.	
Halibut Mortality (mt)	137	286	(149)
Herring (mt)	322	n.a.	
Chinook (N)	3,201	n.a.	
Other Salmon (N)	2,115	n.a.	
Red King Crab — Zone 1 (N)	34	1,231	(1,197)
<i>C. Opilio</i> — COBLZ (N)	1,382,690	594,336	788,354
<i>C. Bairdi</i> zone 1 (N)	260	103,767	(103,507)
<i>C. Bairdi</i> zone 2 (N)	66,437	112,518	(46,081)

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	579	0	0	186	9	136	1	95
American Dynasty	143	0	0	2,125	187	15	16	60
American Triumph	367	10	0	3,712	513	33	8	145
Arctic Fjord	168	0	0	37	3	22	2	39
Arctic Storm	228	0	0	62	7	16	15	88
Island Enterprise	153	0	0	1,375	104	16	15	52
Katie Anne	419	0	0	0	0	4	0	18
Kodiak Enterprise	134	0	0	13	2	12	1	48
Northern Eagle	359	0	0	3,583	600	39	1	199
Northern Hawk	274	0	0	3,436	430	14	110	146
Northern Jaeger	586	0	0	3,386	452	51	2	185
Ocean Rover	116	0	0	0	0	19	1	0
Pacific Glacier	207	0	0	64	3	8	1	53
Seattle Enterprise	127	0	0	2,140	172	11	15	38
Starbound	184	0	0	13	2	16	3	53
2010 Total	4,042	11	0	20,132	2,483	413	191	1,221

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	327	1	172	0	0	0	0
American Dynasty	109	0	65	0	0	22	0
American Triumph	371	4	164	0	0	35	0
Arctic Fjord	151	0	65	0	0	0	0
Arctic Storm	135	0	112	0	0	0	0
Island Enterprise	103	2	51	0	0	31	0
Katie Anne	1	0	7	0	0	0	0
Kodiak Enterprise	92	0	27	0	0	0	0
Northern Eagle	371	1	198	0	0	6	0
Northern Hawk	219	11	147	0	0	0	0
Northern Jaeger	503	0	185	0	0	0	0
Ocean Rover	20	1	19	0	0	7	0
Pacific Glacier	141	0	75	0	0	0	0
Seattle Enterprise	107	0	64	0	0	34	0
Starbound	99	0	59	0	0	0	0
2010 Total	2,749	20	1,410	1	0	136	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	4	0	0	0
American Dynasty	0	0	0	0	0	0	0	0
American Triumph	3	0	0	0	2	0	0	0
Arctic Fjord	0	0	0	0	1	0	0	0
Arctic Storm	0	0	0	0	1	0	0	0
Island Enterprise	0	0	0	0	1	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	5	0	0	0	2	0	0	0
Northern Hawk	0	1	0	0	0	0	0	0
Northern Jaeger	0	0	0	0	3	0	0	0
Ocean Rover	1	0	0	0	1	0	0	0
Pacific Glacier	0	0	0	0	0	0	0	0
Seattle Enterprise	0	0	0	0	0	0	0	0
Starbound	0	0	0	0	1	0	0	0
2010 Total	9	1	0	0	17	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	26	27	0	0	43	165	581	184
American Dynasty	5	3	0	0	4,572	37,572	146	0
American Triumph	15	7	0	0	8,404	147,533	173	201
Arctic Fjord	7	6	0	0	2	49	132	145
Arctic Storm	7	0	0	0	39	262	226	174
Island Enterprise	4	5	0	0	3,796	482,282	307	373
Katie Anne	1	0	25	0	0	0	84	1
Kodiak Enterprise	5	0	0	0	18	106	282	8
Northern Eagle	14	113	0	0	22,902	197,082	182	159
Northern Hawk	12	69	0	0	5,383	10,637	304	1
Northern Jaeger	15	56	0	260	14,889	337,716	164	202
Ocean Rover	6	1	0	0	4	5	3	165
Pacific Glacier	4	34	0	0	22	25	289	25
Seattle Enterprise	5	0	9	0	6,353	169,179	142	381
Starbound	9	1	0	0	10	77	186	95
2010 Total	137	322	34	260	66,437	1,382,690	3,201	2,115

Table 7. PCC Pollock-Fishery Discards.

Species Category	2010 Discard Amount (mt)	Year	Groundfish Bycatch Ratio ** (mt/mt)	Groundfish Discard Ratio *** (mt/mt)
Pollock	199	1999	0.010	—
Other Roundfish	102	2000	0.016	0.006
Flatfish	1,758	2001	0.011	0.006
Other Species	442	2002	0.011	0.004
Squid	1	2003	0.010	0.004
	_____	2004	0.012	0.005
Total Groundfish	2,502	2005	0.005	0.004
		2006	0.007	0.004
Forage	0	2007	0.007	0.005
Non-specified Species	249	2008	0.025	0.008
	_____	2009	0.040	0.010
Total Discards *	2,751	2010	0.030	0.009

* 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 Dynasty	0
American Triumph	0
Arctic Fjord	0
Arctic Storm	0
Island Enterprise	0
Kodiak Enterprise	0
Northern Eagle	0
Northern Hawk	0
Northern Jaeger	0
Ocean Rover	0
Pacific Glacier	0
Seattle Enterprise	1
Starbound	198
2010 Total	199

Table 8. PCC Vessel Appearances on the Dirty-20 Lists.

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

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	633	644	12	0	1,019	212	0	0	0
Sea Storm	625	663	10	0	848	259	0	26	0
Muir Milach	1,077	1,077	1	0	4	0	0	71	9
Forum Star	1,542	1,542	1	11	0	0	0	62	11
2010 Total	3,878	3,927	23	11	1,871	471	0	159	20
Catch Rate	0.987	1.000	0.006	0.003	0.476	0.120	0.000	0.040	0.005

Table 10. HSCC Catches of BSAI Groundfish.

Species	2010 Catch (mt)
Alaska Plaice	0
Arrowtooth Flounder	29
Flathead Sole	10
Atka Mackerel - BS + EAI	0
Northern Rockfish	2
Other Flatfish	2
Other Rockfish	2
Other Species	54
Pacific Cod	3,878
Pollock BS	137
Pollock AI	83
Pacific Ocean Perch BS	0
Pacific Ocean Perch AI	0
Rock Sole	60
Rougheye Rockfish	0
Squid	0
Yellowfin Sole	0

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	878	968	0	0	1	0	0	1,151	50
2010 Total	878	968	0	0	1	0	0	1,151	50
Catch Rate	0.907	1.000	0.000	0.000	0.001	0.000	0.000	1.189	0.052

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

Area/Species	Initial Sideboard Allocation (mt)	In-Season Transfers (mt)	Final Sideboard Allocation (mt)	2010 Harvest (mt)	Over (Under) Limit (mt)
BSAI Pacific Cod (non-exempt)	2,820	850	3,670	2,335	(1,335)
BSAI Pacific Cod (exempt)			none	1,542	
BSAI Rock Sole	353	0	353	60	(293)
BSAI Yellowfin Sole	276	0	276	0	(276)
BSAI Arrowtooth Flounder	0	0	0	29	29
BSAI Flathead Sole	0	0	0	10	10
BSAI Other Flatfish	0	0	0	2	2
BSAI Northern Rockfish	0	0	0	2	2
BSAI Other Rockfish	0	0	0	2	2
BSAI Other Species	0	0	0	54	54
BS Pollock	0	0	0	137	137
AI Pollock	0	0	0	83	83
EGOA Pacific Cod	0	0	0	0	0
CGOA Pacific Cod (Inshore + Offshore)	167	-85	82	0	(82)
WGOA Pacific Cod (Inshore + Offshore)	264	0	264	35	(229)
CGOA Pollock	258	-8	250	2	(248)
WGOA Pollock	50	940	990	878	(112)