

Pollock Conservation Cooperative
and
High Seas Catchers' Cooperative

Preliminary
Joint Annual Report 2006

North Pacific Fishery Management Council

December 1, 2006

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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 fully 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 US 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 intended to be largely self-explanatory, although some brief notes have been included to provide additional detail. The catch data in this report was provided by SeaState, Inc., and was largely 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 due by December 1, and a final report due 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 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.

1. The NMFS catch database for the 2006 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.

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 eight 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. According to the PCC harvest schedule, each company is allocated a percentage of the directed fishery specified under Section 206(b) of the AFA. For 2006, the percentage of the catcher-processor directed pollock fishery allocated to each PCC member company is shown below.²

	Directed Pollock Fishery (%)	PCC Harvest Share (%)
Starbound Ltd. Partnership	1.585	4.33
Highland Light Seafoods, L.L.C.	1.764	4.82
Arctic Fjord, Inc.	1.792	4.90
Arctic Storm, Inc.	1.841	5.03
Alaska Ocean Seafood, L.P.	3.004	8.21
Glacier Fish Company, L.L.C.	3.218	8.79
Trident Seafoods Corporation	6.824	18.64
American Seafoods Company	16.572	45.28
Total	36.600	100.00

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.

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.

Participation in BSAI Sideboard Fisheries

Six PCC vessels participated in the BSAI directed fisheries for Pacific cod and yellowfin sole in 2006. The groundfish catches and PSC usage in these fisheries is shown in Tables 3 and 4. Catch rates are provided in these tables to assess target catch and PSC usage per ton of total groundfish catch. So for example, on average 0.015 red king crab were caught per ton of groundfish in the yellowfin sole directed fishery, and yellowfin sole catches were on average 61 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).

Inter-Cooperative Agreement on Salmon Bycatch Avoidance

In 2006, all BSAI pollock cooperatives voluntarily participated in an inter-cooperative salmon bycatch avoidance program. Industry representatives and NPFMC staff presented a report on the results of the 2006 inter-cooperative salmon bycatch avoidance program to the NPFMC at its meeting in October, 2006.

Monitoring and Enforcement

All data used in monitoring PCC 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 on a NMFS password-protected web site 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 and its members to receive and process this observer data and report back to the members on the status of the harvest. Observer data are downloaded one or two times per day, processed to generate target catch and bycatch information, and then sent to a SeaState web site where company representatives can examine the data for their vessel(s).

Aboard each vessel, a direct weight reading from flow scales is taken for the total catch for each haul. 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 2006, more than 90 percent of pollock hauls were sampled, and these sampled hauls included more than 90 percent of the pollock catch as well as more than 90 percent of the total catch of groundfish. 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 and representatives. 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 member companies during 2006, as all members complied with the provisions of the PCC Membership Agreement.

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, Neahkahnle, Ocean Harvester, Sea Storm, and Tracy Anne. The HSCC Membership agreement is on file at the NPFMC. There were no substantive changes to the membership agreement during 2006.

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 2006, 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 2006 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 EBS pollock incidental catch allowance and the Aleutian Islands fishery, is as follows:

Forum Star	3,224
American Challenger	4,159
Ocean Harvester	5,712
Muir Milach	5,993
Tracy Anne	6,130
Neahkahnle	8,821
Sea Storm	10,864
Total	<hr/> 44,903

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 are 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 7-8.

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.

Pollock Utilization and Recovery Rates

Processing of all of the HSCC pollock allocation was done by members of PCC. As such, there is no distinction between utilization and recovery between the PCC allocation and the HSCC allocation. See Figures 1-3 for details on product mix and increased utilization in the catcher-processor sector of the pollock fishery.

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 with BSAI scallop catch history did not participate in 2006.

Participation in BSAI Sideboard Fisheries

One HSCC exempt vessel and three non-exempt vessels participated in the directed Pacific cod fishery and caught a total of 4,658 metric tons of cod (Table 7). Catch rates are provided in these tables to assess target catch and PSC usage per ton of total groundfish catch. So for example, in the BSAI Pacific cod fishery HSCC vessels used 0.013 metric tons of halibut bycatch mortality (1.3 percent by weight of total groundfish catch), and Pacific cod comprised 89 percent by weight of total groundfish catch.

Participation in Gulf of Alaska Sideboard Fisheries

Two HSCC vessels landed 2,579 metric tons of pollock in the Western Gulf of Alaska (GOA) directed pollock fishery (Table 8). In 2006 this was the only area in the GOA where HSCC vessels chose to participate in the directed pollock fishery. As a result, 38 tons of Central GOA pollock history was transferred to other GOA pollock fishermen.

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 9 provides the initial sideboard limits, the adjusted sideboard limits for HSCC vessels, 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 process is identical to that 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. This information was also made available to all HSCC members on the SeaState web site. 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. However, observer data for shore-side deliveries was not incorporated in the preparation of this report. Fish ticket data was used for shore-side deliveries, and observer data was used for offshore deliveries. Total groundfish catches by all HSCC vessels are shown for the BSAI and GOA areas in Tables 10 and 11, respectively.

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.

2006	Company	Vessel	Cooperative Shares (mt)			Catch (mt)		
			Harvest Schedule	Transfers	Allocation	Vessel	Company Total	Over (under) Allocation
PCC	Alaska Ocean Seafood							
		Alaska Ocean	39,672	(148)	39,524	39,524	39,524	0
	American Seafoods Company		218,856	12,152	231,008		230,988	(20)
		Northern Eagle				28,153		
		Northern Hawk				41,333		
		Northern Jaeger				34,631		
		American Triumph				48,201		
		Ocean Rover				42,149		
		American Dynasty				36,520		
	Arctic Fjord	Arctic Fjord	23,666	8,579	32,245	32,244	32,244	(1)
	Arctic Storm	Arctic Storm	24,313	10,793	35,106	35,106	35,106	(0)
	Glacier Fish Company		42,498	1,812	44,310		44,310	(0)
		Northern Glacier				16,891		
		Pacific Glacier				27,419		
	Highland Light	Highland Light	23,296	6,003	29,299	29,299	29,299	0
Starbound Ltd.	Starbound	20,932	5,712	26,644	26,633	26,633	(11)	
Trident Seafoods Corporation		90,120	-	90,120		90,095	(25)	
	Seattle Enterprise				29,702			
	Kodiak Enterprise				31,325			
	Island Enterprise				29,068			
HSCC		Forum Star	3,224	(3,224)	0		0	
		American Challenger	4,159	(4,159)	0		0	
		Ocean Harvester	5,712	(5,712)	0		0	
		Muir Milach	5,993	(5,993)	0		0	
		Tracy Anne	6,130	(6,130)	0		0	
		Neahkanie	8,821	(8,821)	0		0	
		Sea Storm	10,864	(10,864)	0		0	
	Totals		528,256	-	528,256	528,199	528,199	(57)

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

2006	Vessel	Pollock (mt)	Non-pollock Groundfish (mt)	Halibut Mortality (mt)	Herring (mt)	Red King Crab (N)	Bairdi Crab (N)	Other Tanner Crab (N)	Chinook Salmon (N)	Other Salmon (N)
PCC	Alaska Ocean	39,524	173	3	1	0	10	12	677	143
	American Dynasty	28,153	282	3	1	0	8	61	1,547	338
	American Triumph	41,333	261	6	0	0	2	11	1,541	847
	Northern Eagle	34,631	275	6	0	0	27	226	1,330	935
	Northern Hawk	48,201	309	7	0	0	6	64	1,074	1,053
	Northern Jaeger	42,149	341	5	0	0	61	366	1,715	715
	Ocean Rover	36,520	324	3	1	0	7	33	807	403
	Arctic Fjord	32,244	216	4	0	3	9	71	828	471
	Arctic Storm	35,106	128	3	0	0	5	131	1,097	450
	Northern Glacier	16,891	146	2	2	0	7	232	551	1,429
	Pacific Glacier	27,419	215	3	0	0	0	23	725	1,095
	Highland Light	29,299	83	0	2	0	7	57	438	743
	Starbound	26,633	204	3	1	0	34	71	1,173	1,052
	Island Enterprise	29,702	190	2	1	0	76	243	1,422	2,955
	Kodiak Enterprise	31,325	208	4	5	0	24	41	940	1,502
	Seattle Enterprise	29,068	164	2	6	0	48	35	1,195	3,953
HSCC	Forum Star	0	0	0	0	0	0	0	0	0
	American Challenger	0	0	0	0	0	0	0	0	0
	Ocean Harvester	0	0	0	0	0	0	0	0	0
	Tracy Anne	0	0	0	0	0	0	0	0	0
	Neahkanie	0	0	0	0	0	0	0	0	0
	Sea Storm	0	0	0	0	0	0	0	0	0
	Muir Milach	0	0	0	0	0	0	0	0	0
	Totals	528,199	3,520	56	22	3	332	1,678	17,061	18,083

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)	Other Tanner Crab (N)	Chinook Salmon (N)	Other Salmon (N)
Katie Ann	2,906	3,828	34	0	7	2,803	996	257	7
Catch Rate	0.759	1.000	0.009	0.000	0.002	0.732	0.260	0.067	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)	Other Tanner Crab (N)	Chinook Salmon (N)	Other Salmon (N)
Arctic Storm	1,414	1,853	5	0	0	1,633	1,238	0	0
Katie Ann	287	556	5	0	0	1,953	1,229	10	0
Northern Eagle	3,735	5,912	30	0	63	12,361	31,289	0	0
Northern Hawk	2,669	4,746	28	0	145	22,372	39,611	8	0
Northern Jaeger	2,829	4,890	37	0	0	27,340	37,967	0	0
Seattle Enterprise	1,522	2,458	12	0	100	19,429	14,190	0	0
2006 Total	12,456	20,415	115	0	309	85,088	125,524	18	0
Catch Rate	0.610	1.000	0.006	0.000	0.015	4.168	6.148	0.001	0.000

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

Species	2006 Catch	2006 Limit	Over (Under) Limit
Pacific Cod (mt)	6,201	10,643	(4,442)
Sablefish - BS (mt)	1	19	(18)
Atka Mackerel - BS + EAI (mt)	6	0	6
Atka Mackerel - CAI (mt)	0	2,128	(2,128)
Atka Mackerel - WAI (mt)		7,169	(7,169)
Yellowfin Sole (mt)	12,764	18,710	(5,946)
Rock Sole (mt)	1,931	1,305	626
Greenland Turbot - BS (mt)	40	11	29
Greenland Turbot - AI (mt)		4	(4)
Arrowtooth Flounder (mt)	336	22	314
Flathead Sole (mt)	1,571	597	974
Other Flatfish (mt)	110	173	(63)
Alaska Plaice (mt)	3,643	7	3,636
Pacific Ocean Perch - BS (mt)	134	2	132
Pacific Ocean Perch - EAI (mt)		57	(57)
Pacific Ocean Perch - CAI (mt)		3	(3)
Pacific Ocean Perch - WAI (mt)		19	(19)
Shortraker Rockfish (mt)	16	10	6
Rougheye Rockfish (mt)	1	4	(3)
Northern Rockfish (mt)	17	29	(12)
Other Rockfish - BS (mt)	19	12	7
Other Rockfish - AI (mt)		14	(14)
Squid (mt)	341	24	317
Other Species (mt)	1,336	197	1,139
Halibut Mortality (mt)	204	286	(82)
Herring (mt)	22	n.a.	
Chinook Salmon (N)	17,337	n.a.	
Other Salmon (N)	18,090	n.a.	
Red King Crab - Zone 1 (N)	241	1,276	(1,035)
Other Tanner Crab - COBLZ (N)	128,198	815,421	(687,223)
Bairdi Crab Zone 1 (N)	313	126,910	(126,597)
Bairdi Crab Zone 2 (N)	86,478	137,363	(50,885)

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)	Arrowtooth Flounder (mt)	Other Flatfish (mt)	Rock Sole (mt)	Flathead Sole (mt)
Alaska Ocean	141	0	0	0	10	2	12	52
American Dynasty	193	0	0	17	21	5	43	110
American Triumph	161	0	0	0	26	8	10	63
Arctic Fjord	173	0	0	23	10	4	65	56
Arctic Storm	162	0	0	1,414	10	4	34	68
Highland Light	68	0	0	0	4	1	10	24
Island Enterprise	115	2	0	70	13	3	9	42
Katie Anne	2,952	0	1	373	39	4	298	56
Kodiak Enterprise	187	0	0	33	20	4	30	66
Northern Eagle	240	0	0	3,760	19	17	315	132
Northern Glacier	129	0	0	11	11	2	22	49
Northern Hawk	409	0	0	2,669	35	20	410	173
Northern Jaeger	507	0	0	2,831	42	17	345	324
Ocean Rover	240	2	0	12	34	6	72	127
Pacific Glacier	173	0	0	3	11	2	65	58
Seattle Enterprise	200	0	0	1,533	12	9	144	98
Starbound	152	0	0	16	18	5	48	73

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

Vessel	Alaska Plaice (mt)	Turbot BS (mt)	Turbot AI (mt)	Squid (mt)	Other Species (mt)	Northern Rockfish (mt)	Other Rockfish BS (mt)	Other Rockfish AI (mt)
Alaska Ocean	0	1	0	63	33	0	0	0
American Dynasty	0	3	0	13	60	0	0	0
American Triumph	0	5	0	66	57	0	2	0
Arctic Fjord	1	2	0	14	41	0	1	0
Arctic Storm	293	2	0	18	56	0	1	0
Highland Light	0	1	0	34	9	0	0	0
Island Enterprise	0	0	0	24	21	4	0	0
Katie Anne	91	1	1	0	134	6	0	1
Kodiak Enterprise	0	1	0	4	48	1	1	0
Northern Eagle	1,242	4	0	21	174	2	1	0
Northern Glacier	0	1	0	1	48	0	1	0
Northern Hawk	790	8	0	33	214	0	4	0
Northern Jaeger	753	3	0	9	197	0	1	0
Ocean Rover	0	2	0	14	52	0	3	0
Pacific Glacier	0	2	0	3	69	1	1	0
Seattle Enterprise	470	1	0	22	89	3	1	0
Starbound	0	2	0	6	35	0	1	0

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

Vessel	Shortraker Rockfish (mt)	Rougheye Rockfish (mt)	Pacific Ocean Perch AI (mt)	Pacific Ocean Perch BS (mt)	Sablefish BS (mt)	Sablefish AI (mt)	Halibut Mortality (mt)	Herring (mt)
Alaska Ocean	0	0	0	0	0	0	3	1
American Dynasty	0	0	2	0	0	0	4	1
American Triumph	14	0	10	0	0	0	7	0
Arctic Fjord	0	0	0	0	0	0	4	0
Arctic Storm	1	0	0	0	0	0	10	0
Highland Light	0	0	2	0	0	0	0	2
Island Enterprise	0	0	1	0	0	0	2	1
Katie Anne	0	0	0	17	0	0	56	0
Kodiak Enterprise	0	0	0	0	0	0	5	5
Northern Eagle	0	0	26	0	0	0	45	0
Northern Glacier	0	0	0	0	0	0	2	2
Northern Hawk	0	1	51	0	0	0	43	0
Northern Jaeger	0	0	24	0	0	0	53	0
Ocean Rover	0	0	0	0	0	0	3	1
Pacific Glacier	0	0	0	0	0	0	3	0
Seattle Enterprise	1	0	1	0	0	0	17	6
Starbound	0	0	0	0	0	0	4	1

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

Vessel	King Crab (N)	Bairdi Crab (N)	Bairdi Crab Zone 1 (N)	Bairdi Crab Zone 2 (N)	Other Tanner Crab (COBLZ-N)	Chinook Salmon (N)	Other Salmon (N)
Alaska Ocean	0	10	5	5	7	677	143
American Dynasty	0	8	0	8	61	1,547	338
American Triumph	0	2	0	2	11	1,541	847
Arctic Fjord	3	9	0	9	68	828	471
Arctic Storm	0	1,638	0	1,638	1,368	1,097	450
Highland Light	0	7	0	7	57	438	743
Island Enterprise	0	76	14	63	224	1,422	2,955
Katie Anne	7	4,755	34	3,693	2,044	267	7
Kodiak Enterprise	0	24	0	24	41	940	1,502
Northern Eagle	63	12,388	90	12,295	30,561	1,330	935
Northern Glacier	0	7	0	7	230	551	1,429
Northern Hawk	145	22,378	3	22,374	39,433	1,082	1,053
Northern Jaeger	0	27,402	6	27,001	36,215	1,715	715
Ocean Rover	0	7	4	3	29	807	403
Pacific Glacier	0	0	0	0	23	725	1,095
Seattle Enterprise	100	19,477	155	19,322	14,171	1,195	3,953
Starbound	0	34	3	26	71	1,173	1,052

Table 7. HSCC BSAI 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)	Other Tanner Crab (N)	Chinook Salmon (N)	Other Salmon (N)
Forum Star (exempt)	1,434	1,658	22	0	0	2,352	1,653	31	64
Muir Milach	1,339	1,399	3	0	0	9	0	30	0
Ocean Harvester	693	810	17	0	0	1,210	561	85	16
Sea Storm	1,192	1,389	25	0	0	2,187	934	69	8
2006 Total	4,658	5,255	67	0	0	5,758	3,148	215	89
Catch Rate	0.886	1.000	0.013	0.000	0.000	1.096	0.599	0.041	0.017

Table 8. HSCC Western GOA Pollock Directed-Fishing Catch and Bycatch.

Vessel	Pollock (mt)	Pacific Cod (mt)	Total Groundfish (mt)	Halibut Mortality (mt)	Red King Crab (N)	Bairdi Crab (N)	Other Tanner Crab (N)	Chinook Salmon (N)	Other Salmon (N)
Muir Milach	1,584	0	1,600	0	0	0	0	349	123
Sea Storm	995	2	1,000	0	0	0	0	86	83
2006 Total	2,579	3	2,600	0	0	0	0	435	206
Catch Rate	0.992	0.001	1.000	0.000	0.000	0.000	0.000	0.167	0.079

Table 9. HSCC Sideboard Limits and Catches of Sideboard Species.

Area / Species	Initial Sideboard Allocation (mt)	Sideboard Cap Transfers (mt)	Final Sideboard Allocation (mt)	2006 Harvest (mt)	Over (Under) Sideboard Limit (mt)
BSAI Pacific Cod (non-exempt)	3,722	859	4,581	3,224	(1,357)
BSAI Pacific Cod (exempt)	none		none	1,434	n.a.
BSAI Yellowfin Sole	164	0	164	2	(162)
BSAI Rock Sole	218	0	218	121	(97)
EGOA Pacific Cod	3	0	3	0	(3)
CGOA Pacific Cod (Inshore+Offshore)	144	0	144	0	(144)
WGOA Pacific Cod (Inshore+Offshore)	284	0	284	3	(281)
CGOA Pollock	254	-38	216	0	(216)
WGOA Pollock	54	2,554	2,608	2,579	(29)

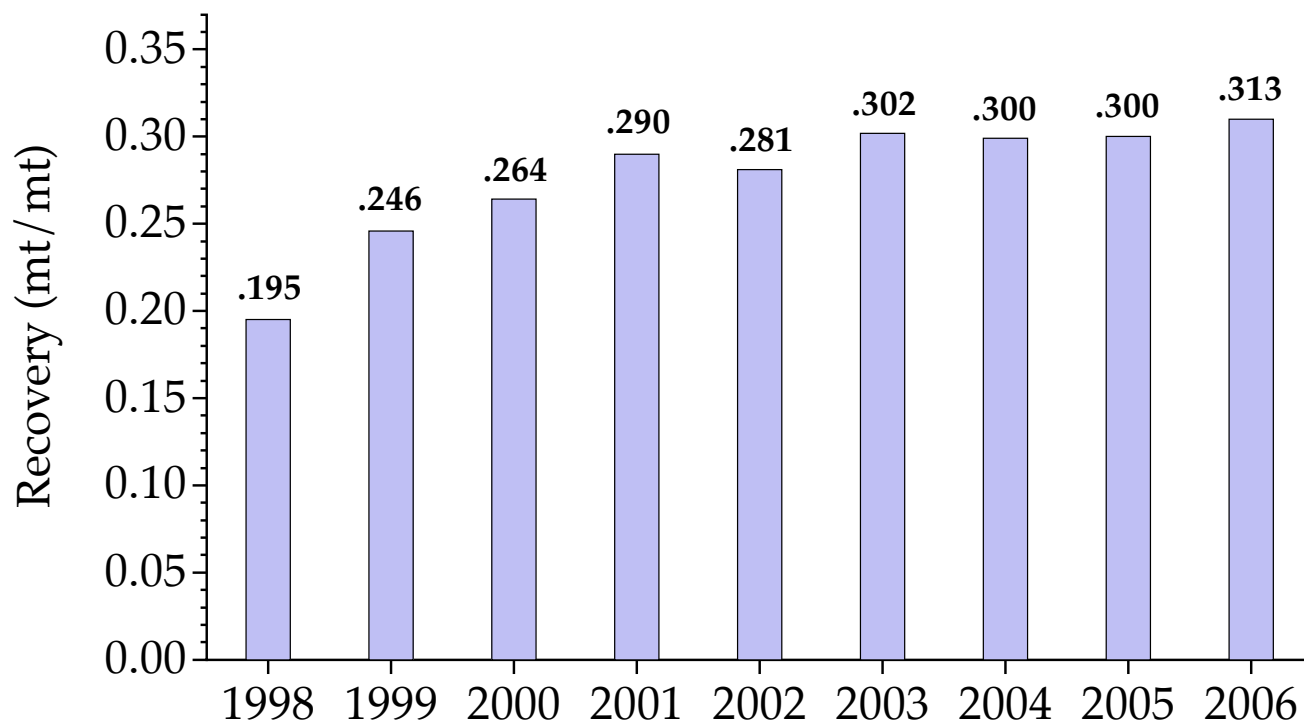
Table 10. HSCC Catches of BSAI Groundfish.

Species	2006 Catch
Pacific Cod (mt)	4,658
Pollock Incidental Catch (mt)	269
Rock Sole (mt)	121
Arrowtooth Flounder (mt)	27
Flathead Sole (mt)	26
Yellowfin Sole (mt)	2
Greenland Turbot (mt)	0
Other Flatfish (mt)	18
Pacific Ocean Perch BS (mt)	0
Pacific Ocean Perch AI (mt)	30
Northern Rockfish (mt)	7
Shortraker Rockfish (mt)	0
Rougheye Rockfish (mt)	0
Other Rockfish (mt)	1
Atka Mackerel - BS + EAI (mt)	48
Sablefish (mt)	0
Squid (mt)	0
Other Species (mt)	43

Table 11. HSCC Catches of GOA Groundfish.

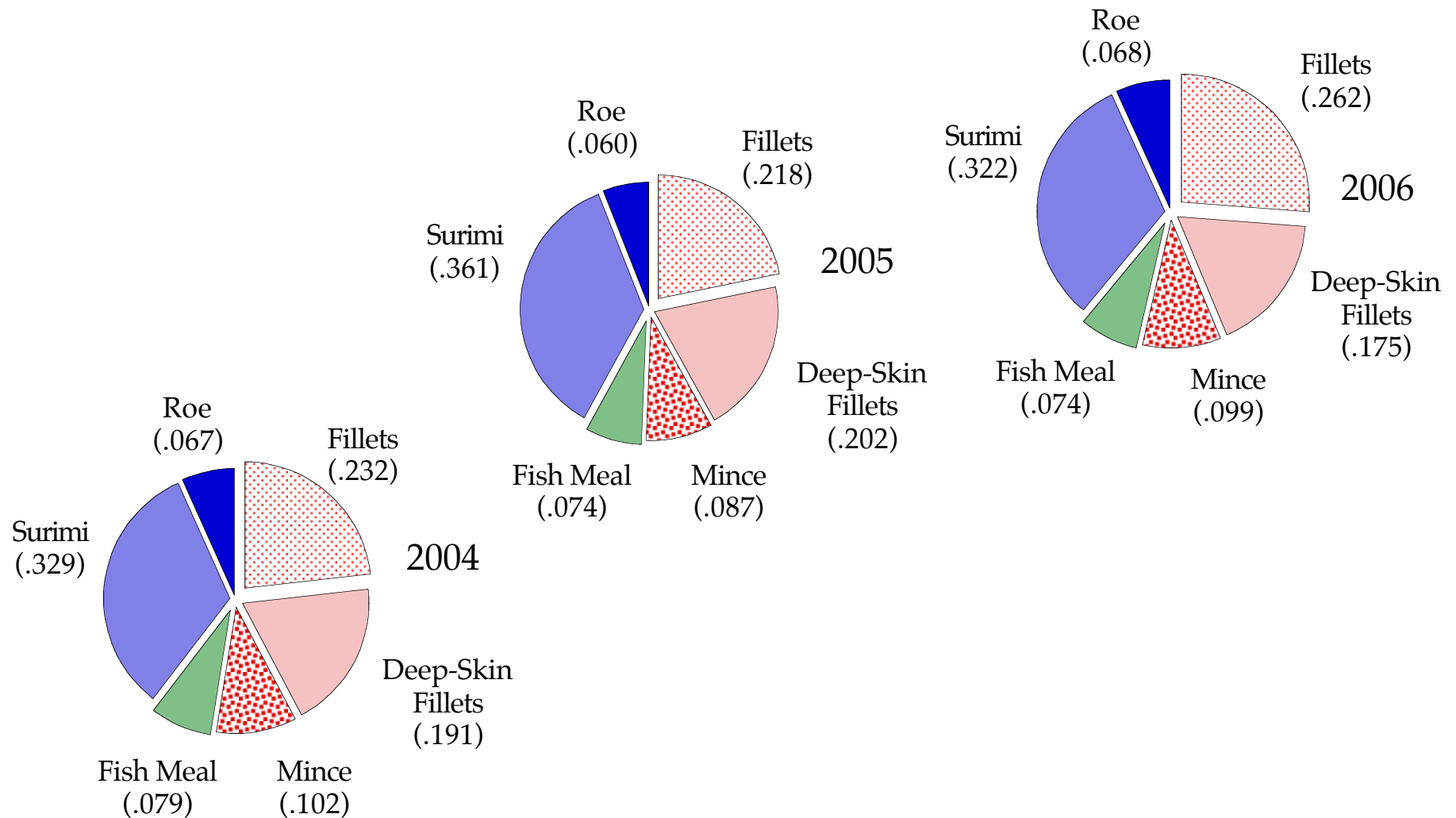
Species	2006 Catch
Pollock - Area 610 (mt)	2,579
Pollock - Area 620 (mt)	0
Pacific Cod (mt)	3
Arrowtooth Flounder (mt)	4
Flathead Sole (mt)	1
Rock Sole (mt)	0
Yellowfin Sole (mt)	0
Rex Sole (mt)	0
Shallow Water Flatfish (mt)	0
Deep Water Flatfish (mt)	0
Pacific Ocean Perch (mt)	10
Northern Rockfish (mt)	0
Demersal Shelf Rockfish (mt)	0
Pelagic Shelf Rockfish (mt)	0
Atka Mackerel (mt)	0
Other Species (mt)	0

Figure 1. Total Product Recovery.



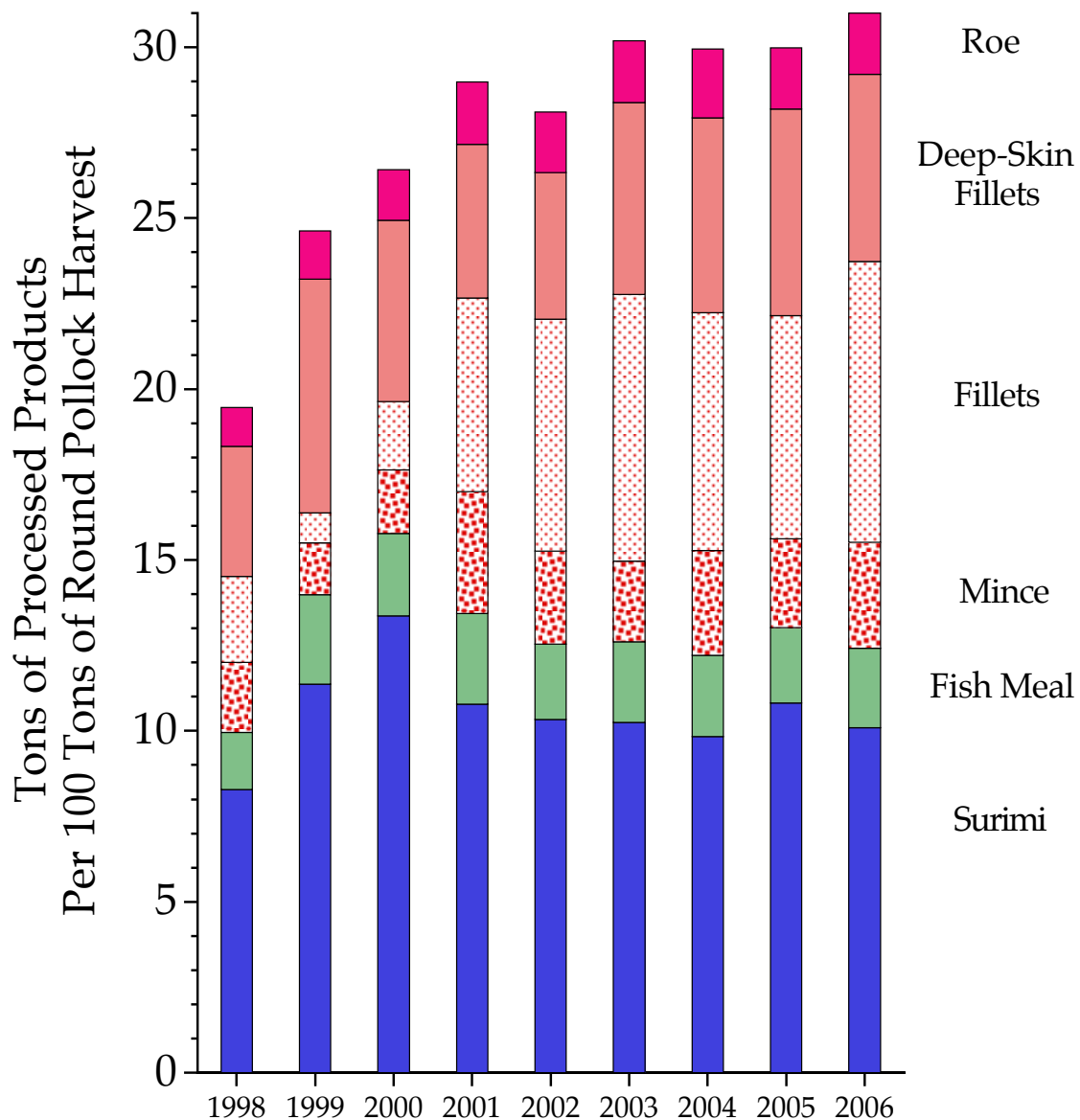
Source: SeaState, Inc. PCC and CDQ catch per haul, 1998-2006; NMFS AK Region Pacific cod and pollock products by processing mode, 1998-2006, BSAI groundfish quotas and preliminary catch in round metric tons, 1999-2006, and CDQ participation and catch by gear, 1999-2006. Total product recovery estimates include both directed-fishing and CDQ pollock harvests, and are calculated as the weight of all products produced divided by the weight of the round pollock used to obtain the products.

Figure 2. Average Product Mix.



Source: NMFS AK Region Pacific cod and pollock products by processing mode, 2004-2006. Note that this figure does not show individual product recovery rates, but instead the average product mix that was produced from the total amount of pollock harvested throughout the entire year. Pollock Conservation Cooperative vessels produce small amounts of pollock cheeks, milt, oil, stomachs and whole-round pollock that are not shown in the product mix pies.

Figure 3. Total Product Recovery and Mix.



During 2001-2006 total product recovery is estimated to have increased by more than 50% over the 1998 open-access "race-for-fish" baseline.

Source: SeaState, Inc. PCC and CDQ catch per haul, 1998-2006; NMFS AK Region Pacific cod and pollock products by processing mode, 1998-2006, BSAI groundfish quotas and preliminary catch in round metric tons, 1999-2006, and CDQ participation and catch by gear, 1999-2006. Note that this figure does not show product recovery rates, but instead the average product mix produced from the total amount of pollock harvested throughout the entire year by all PCC member vessels.