

IFQ Committee Data Report

October 2017

Movement of Halibut and Sablefish Quota Share Via Relocation and Transfer

The Council requested that staff prepare a data report showing the movement of halibut and sablefish quota share (QS) between rural Alaska communities, non-rural (urban) Alaska communities, and communities outside of Alaska (Non-Alaska). For the purpose of this report, a rural Alaska community is defined by population with a maximum cut-off at 1,500 residents. Non-Alaska communities are not distinguished by their population size. Movement of QS is denominated in pounds of individual fishing quota (IFQ) because that is the unit of the transfer market and because pounds of fish are easier to conceptualize than QS units. The regulatory areas in this report refer to the fishing area designation of the quota, not to the proximate area where a community is located.

As requested, this document provides separate reports for two modes of QS “movement.” The first mode is relocation, where a person (individual or non-individual quota holding entity) moves his or her address from one community to another. The second mode is transfer, where a person sells his or her quota to a different person who resides elsewhere. This report tracks movement within each of the three categories – AK rural, AK urban, and Non-AK – but does not include address changes or transfers that occur *within* a community. For example, transfer of QS from one AK rural community to another is included, but transfer to a different person residing in the same AK rural community is not.

This report aggregates across the years 2002 through 2016. Staff looked at year-on-year trends and did not discern any patterns of more or fewer transfers going in a given direction as time moved along. Collapsing the years simplifies an expansive data request. However, the interested reader can find full annual tables in an appendix at the end of this report.

For the following tables, “AKr” indicates AK rural, “AKu” indicates AK urban, and “Non” indicates Non-Alaska. The “>>” symbol indicates the direction of movement (from >> to). Table 1 and Table 3 show gross movement by a person relocating between the three community designations over the 2002 through 2016 time period. Table 2 and Table 4 calculate net movement into (positive) or out of (negative) a community designation category over the entire time period. Note that net movement could count a single lot of QS more than once and in more than one direction as multiple transfers could happen in the course of 15 years. For example, QS that moves from an AK rural community to an Non-AK community in 2004 and then from that Non-AK community to an AK urban community in 2010 would show up as a rural outflow, an urban inflow, and have zero net impact for the Non-AK category. The net movement tables do not consider movement from within the same community designation (AKr >> AKr, AKu >> AKu, or Non >> Non).

Table 1 Movement of halibut IFQ lbs. by relocation, 2002 through 2016

	Area 2C	Area 3A	Area 3B	Area 4
AKr >> AKu	164,367	391,791	214,973	140,054
AKr >> AKr	96,891	205,284	106,220	18,347
AKr >> Non	251,838	238,406	73,929	127,750
AKu >> AKr	155,681	331,800	176,056	156,725
AKu >> AKu	137,336	602,748	228,273	361,416
AKu >> Non	232,519	1,513,237	1,046,781	591,580
Non >> AKr	182,744	76,030	47,047	87,656
Non >> AKu	66,269	883,849	525,033	514,953
Non >> Non	472,111	2,548,641	1,705,109	2,352,265

Table 2 Net movement of halibut IFQ lbs. by relocation, 2002 through 2016

	Area 2C	Area 3A	Area 3B	Area 4
AK Rural	-77,780	-222,367	-65,799	-23,423
AK Urban	-157,564	-569,397	-482,831	-93,298
Non AK	235,344	791,764	548,630	116,721

Table 3 Movement of sablefish IFQ lbs. by relocation, 2002 through 2016

	SE	WY	CG	WG	BS+AI
AKr >> AKu	138,311	126	240,653	57,758	60,149
AKr >> AKr	81,805	9,407	132,853	62,046	0
AKr >> Non	177,175	34,329	110,455	34,124	125,824
AKu >> AKr	200,874	46,195	292,136	95,258	182,910
AKu >> AKu	222,209	26,351	401,220	158,725	580,532
AKu >> Non	761,583	146,965	694,667	163,486	496,421
Non >> AKr	80,041	27,279	177,986	7,429	46,403
Non >> AKu	437,713	152,881	518,307	202,157	578,564
Non >> Non	1,413,891	856,620	2,043,964	865,061	1,921,587

Table 4 Net movement of sablefish IFQ lbs. by relocation, 2002 through 2016

	SE	WY	CG	WG	BS+AI
AK Rural	-34,571	39,019	119,014	10,805	43,340
AK Urban	-386,433	-40,153	-227,843	1,171	-40,618
Non AK	421,004	1,134	108,829	-11,976	-2,722

Table 5 through Table 8 use the same method to show movement of halibut and sablefish as it was transferred (sold) from one person to another.

Table 5 Movement of halibut IFQ lbs. by transfer, 2002 through 2016

	Area 2C	Area 3A	Area 3B	Area 4
AKr >> AKu	592,913	950,613	325,398	303,305
AKr >> AKr	1,426,790	1,587,681	810,797	617,385
AKr >> Non	369,391	425,196	260,647	247,571
AKu >> AKr	367,478	666,000	260,390	478,977
AKu >> AKu	1,447,694	4,176,065	2,336,093	1,494,880
AKu >> Non	635,126	2,157,647	1,315,669	796,787
Non >> AKr	314,638	331,218	256,859	502,016
Non >> AKu	297,142	1,082,837	685,445	1,179,077
Non >> Non	824,857	2,808,462	2,194,252	3,188,286

Table 6 Net movement of halibut IFQ lbs. by transfer, 2002 through 2016

	Area 2C	Area 3A	Area 3B	Area 4
AK Rural	-280,188	-378,591	-68,796	430,117
AK Urban	-112,549	-790,197	-565,216	206,618
Non AK	392,737	1,168,788	634,012	-636,735

Table 7 Movement of sablefish IFQ lbs. by transfer, 2002 through 2016

	SE	WY	CG	WG	BS+AI
AKr >> AKu	303,995	81,629	214,846	202,216	276,631
AKr >> AKr	619,930	291,659	1,210,628	20,708	114,289
AKr >> Non	285,512	62,683	192,802	551,706	252,313
AKu >> AKr	333,632	91,965	290,366	82,855	335,592
AKu >> AKu	2,439,716	353,037	115,173	492,082	1,240,253
AKu >> Non	1,258,064	96,372	630,540	1,355,883	836,464
Non >> AKr	93,445	120,955	379,397	106,218	231,373
Non >> AKu	471,841	241,142	658,369	507,450	2,325,711
Non >> Non	1,920,947	559,741	2,435,358	2,234,515	4,714,219

Table 8 Net movement of sablefish IFQ lbs. by transfer, 2002 through 2016

	SE	WY	CG	WG	BS+AI
AK Rural	-162,430	68,608	262,115	-564,849	38,021
AK Urban	-815,860	134,434	-47,691	-729,072	1,430,286
Non AK	978,290	-203,042	-214,424	1,293,921	-1,468,307

**Appendix: Year-by-year tables for halibut and sablefish QS movement (denominated in IFQ lbs.),
by area**

HALIBUT TABLES

Table 9 Area 2C halibut movement (relocation)

	AKr > AKu	AKr > AKr	AKr > Non	AKu > AKr	AKu > AKu	AKu > Non	Non > AKr	Non > AKu	Non > Non
2002	22,150	8,323	22,901	13,522	1,370	2,366	10,887	13,519	7,172
2003	17,763	7,129	9,247		16,953	33,579	10,119	7,553	39,277
2004	14,536	17,426	2,151	2,970	10,767	8,309	54,418		60,152
2005	1,595		42,942	28,202	764	57,934		4,626	85,090
2006	5,630		38,239	8,799	53,280	37,997	15,608	7,996	23,570
2007	14,820	16,206	23,174	25,315	3,362	22,698	9,542	3,457	21,894
2008	1,337		83,032	613	23,892	2,378		15,887	34,978
2009	13,826	3,020	2,863	15,105	1,183	11,934	5,282	2,111	8,295
2010	1,724	15,097	4,117	4,211	2,468	9,022	8,079	1,046	13,784
2011	6,266	208	2,122	1,654	2,317	94	2,345		1,389
2012	18,094	1,983	74	6,715	2,695	8,990	3,826		19,052
2013	9,056		1,391	9,763	250	17,698	9,098	1,509	11,620
2014	11,225	3,417	17,162	6,463	9,356	7,475	34,861		28,580
2015	16,037	3,337	610	3,020	3,776	10,975	12,592	1,126	51,144
2016	10,308	20,745	1,813	29,329	4,903	1,070	6,087	7,439	66,114
Total	164,367	96,891	251,838	155,681	137,336	232,519	182,744	66,269	472,111

Table 10 Area 2C halibut movement (transfer)

	AKr > AKu	AKr > AKr	AKr > Non	AKu > AKr	AKu > AKu	AKu > Non	Non > AKr	Non > AKu	Non > Non
2002	37,297	125,694	46,694	58,495	194,369	96,342	9,870	21,224	68,455
2003	15,345	76,562	25,967	31,939	126,766	65,634	21,520	14,939	88,857
2004	56,740	231,216	20,375	27,192	110,541	35,904	73,752	84,446	69,690
2005	77,228	136,406	21,937	49,764	197,467	32,004	38,066	27,627	103,267
2006	35,733	168,729	43,925	26,165	77,481	36,186	74,345	25,817	114,252
2007	69,797	178,445	20,409	28,494	120,229	35,647	48,027	25,729	52,123
2008	50,288	83,034	68,021	18,272	131,713	43,081	2,235	22,784	80,244
2009	37,846	70,144	31,776	22,159	49,278	27,034	9,847	29,876	43,413
2010	47,058	95,660	11,087	16,636	53,836	32,840	13,772	23,206	44,951
2011	5,296	24,686	5,357	7,185	38,680	14,850	4,442	7,792	14,740
2012	10,057	32,698	3,142	10,871	35,401	32,220		113	21,179
2013	39,980	45,317	17,777	12,306	48,155	26,693	7,458	1,157	22,240
2014	34,102	43,580	12,244	16,603	103,060	65,137	5,390	2,142	31,155
2015	39,062	40,708	20,141	19,626	73,352	30,525	2,735	7,187	40,302
2016	37,084	73,912	20,539	21,771	87,366	61,028	3,179	3,103	29,989
Total	592,913	1,426,790	369,391	367,478	1,447,694	635,126	314,638	297,142	824,857

Table 11 Area 3A halibut movement (relocation)

	AKr > AKu	AKr > AKr	AKr > Non	AKu > AKr	AKu > AKu	AKu > Non	Non > AKr	Non > AKu	Non > Non
2002	31,747	5,934	1,361	75,633	51,733	347,360	8,238	13,541	198,506
2003	36,324	570	4,831	11,911	52,335	285,303	2,152	29,283	32,303
2004	14,831		7,402	36,500	21,682	146,764		7,737	286,314
2005	72,414		31,876	25,836	43,888	25,153	9,653	188,886	155,457
2006	18,915	28,454	5,372	12,499	61,704	82,295	3,663	142,565	168,527
2007	64,128	54,421	6,112	37,015	127,312	154,757		58,691	294,688
2008	33,390	59,657	87,495	12,327	22,861	15,933		115,238	260,234
2009	2,854		12,287	7,735	43,768	8,618		64,901	206,907
2010	5,231	818	15,527		86,309	77,703		167,358	56,246
2011	38,792	36,638	4,609	53,730	36,488	70,366	4,085	10,057	234,632
2012	25,981	5,332	84	25,337	86	149,015	5,460	9,420	165,940
2013	17,546	4,472	41,923	12,985	11,980	57,190	5,862	22,936	97,140
2014	10,287		5,256	12,069	11,399	10,378	8,075	15,629	105,936
2015	19,351	7,561	5,287	2,753	4,764	66,354	6,278	33,519	181,222
2016		1,427	8,984	5,470	26,439	16,048	22,564	4,088	104,589
Total	391,791	205,284	238,406	331,800	602,748	1,513,237	76,030	883,849	2,548,641

Table 12 Area 3A halibut movement (transfer)

	AKr > AKu	AKr > AKr	AKr > Non	AKu > AKr	AKu > AKu	AKu > Non	Non > AKr	Non > AKu	Non > Non
2002	55,285	49,241	78,503	48,413	442,513	329,207	39,420	145,494	147,993
2003	125,485	215,865	38,782	49,233	189,025	216,311	55,126	33,947	220,449
2004	89,073	184,531	11,889	58,297	402,240	343,211	55,064	149,851	171,597
2005	99,949	113,314	22,665	95,337	210,795	53,958	43,933	46,447	280,989
2006	79,402	142,728	4,034	80,213	254,919	144,538	27,196	79,287	178,874
2007	14,462	120,933	8,382	37,464	233,908	276,297	31,099	138,288	479,653
2008	87,163	72,878	62,518	25,318	464,026	82,702	14,003	179,785	292,332
2009	42,302	56,794	19,078	39,494	331,941	133,296	33,543	48,807	286,510
2010	74,489	34,560	19,939	32,196	377,583	104,357		63,182	228,715
2011	19,901	139,547	12,104	38,605	292,396	98,966	22,612	43,317	111,595
2012	45,364	74,294	21,546	17,735	241,486	76,529	16	10,807	86,129
2013	63,907	106,573	23,025	18,389	207,648	73,595		17,340	89,362
2014	57,865	134,699	27,712	32,327	151,875	59,463	2,713	17,984	66,948
2015	35,258	54,726	46,748	58,957	161,359	68,645	3,026	91,470	70,629
2016	60,708	86,998	28,271	34,022	214,351	96,572	3,467	16,831	96,687
Total	950,613	1,587,681	425,196	666,000	4,176,065	2,157,647	331,218	1,082,837	2,808,462

Table 13 Area 3B halibut movement (relocation)

	AKr > AKu	AKr > AKr	AKr > Non	AKu > AKr	AKu > AKu	AKu > Non	Non > AKr	Non > AKu	Non > Non
2002	11,716				11,376	364,257		5,709	300,898
2003			7,762	11,396	6,070	208,613		81,439	60,504
2004	57,539		9,869			165,770		32,433	20,439
2005	36,641			12,841		28,866		90,871	47,354
2006	391	48,387	24		28,817	5,276		74,866	34,056
2007	27,848			47,689	16,857	66,713		2,458	157,009
2008	43,915	39,057	31,906	41,052	556	3	26,494	31,377	247,764
2009			16,493	14,109	17,691	81,007			219,248
2010					112,791	60,942		128,035	79,998
2011	20,954	7,626			32,730	19,574		2,772	111,948
2012	7,779			15,483		39,950	7,925	34,423	179,575
2013	3,588		3,025	23,375	219	3,369	12,528	15,573	47,749
2014	1,250	1,439	2,333	2,616				1,824	62,221
2015				4,978	1,166		100	16,514	94,002
2016	3,352	9,711	2,517	2,517		2,441		6,739	42,344
Total	214,973	106,220	73,929	176,056	228,273	1,046,781	47,047	525,033	1,705,109

Table 14 Area 3B halibut movement (transfer)

	AKr > AKu	AKr > AKr	AKr > Non	AKu > AKr	AKu > AKu	AKu > Non	Non > AKr	Non > AKu	Non > Non
2002	25,113	4,836	27,603	64,204	271,218	274,339	12,440	76,796	237,465
2003	24,304	95,321	145,429		266,722	268,855	182,477	102,952	217,044
2004	22,229	101,421	2,514	21,282	191,952	162,338	4,586	194,798	209,699
2005	30,487	73,389	3,280	26,130	254,145	60,786		23,741	382,699
2006	38,052	94,710	7,328	7,163	240,165	76,045	13,047	71,970	280,303
2007	11,485	90,753		9,184	189,397	57,556	4,826	47,332	215,652
2008	8,466	33,154	161	5,588	232,414	1,060	29,023	30,212	198,779
2009	30,086	71,855	6,461	5,126	140,336	49,496			57,753
2010	39,766	49,196	12,762	43,054	139,096	49,043		64,830	28,268
2011	20,954	63,675		32,695	103,426	47,109	6,903		120,934
2012	37,167	18,559	10,624		37,551	54,194		12,329	87,721
2013	5,663	53,469	12,006	7,956	85,014	67,757		12,307	70,169
2014	17,172	25,997	15,833	13,032	65,134	45,559	685	10,329	31,525
2015	10,495	16,724	5,228	13,975	48,175	41,747	100	18,362	31,971
2016	3,959	17,738	11,418	11,001	71,348	59,785	2,772	19,487	24,270
Total	325,398	810,797	260,647	260,390	2,336,093	1,315,669	256,859	685,445	2,194,252

Table 15 Area 4 halibut movement (relocation)

	AKr > AKu	AKr > AKr	AKr > Non	AKu > AKr	AKu > AKu	AKu > Non	Non > AKr	Non > AKu	Non > Non
2002			59,934		45,581	298,913			192,476
2003						57,642			230,261
2004					25,949	30,991		8,922	26,677
2005				5,662				109,632	219,781
2006	10,299	6,453	8	16,309	38,819	19,548	7,930	10,399	57,169
2007	10,161	10,004		57,125	134	47,470		1,321	368,499
2008	72,067			32,193	63,564	32,856		196,913	75,764
2009	6,476		6,680	41,864	36,945				121,716
2010		1,357		757	114,700	96,467	3,658	114,198	229,525
2011	1,392		9,734	2,815	7,050				179,701
2012	28,175				983	5,534			160,407
2013	1,072		5,160		27,691		41,685		106,116
2014		533				2,159	34,383	3,681	124,483
2015	3,674		37,726					22,558	183,440
2016	6,738		8,508					47,329	76,250
Total	140,054	18,347	127,750	156,725	361,416	591,580	87,656	514,953	2,352,265

Table 16 Area 4 halibut movement (transfer)

	AKr > AKu	AKr > AKr	AKr > Non	AKu > AKr	AKu > AKu	AKu > Non	Non > AKr	Non > AKu	Non > Non
2002			34	24,316	108,186	74,012	81,187	104,181	301,124
2003		3,415	90	52,060	165,496	115,921	26,181	135,028	432,900
2004		32,748	23,918		69,512	7,585	49,077	91,584	559,252
2005	75	19,205	49,724	4,654	129,364	32,249	49,154	210,549	331,241
2006	8,008	6,453		9,754	46,639	28,242	81,796	88,447	141,147
2007	70,593	87,158	49,801	1,890	96,496	24,526	15,670	144,255	418,998
2008	29,016	90,107	11,785	2,198	140,614	95,774	37,205	86,454	188,380
2009	44,763	79,980		26,621	106,039	27,444	2,539	78,949	143,939
2010	43,331	40,422		33,376	89,268	18,023	5,759	58,273	105,170
2011	20,579	91,004	63,611	12,434	150,709	144,043	45,348	89,802	184,651
2012	25,070	23,217	3,771	63,723	100,350	62,977	983	13,970	82,736
2013	1,761	10,183		77,151	78,903	39,944	25,904	15,822	64,744
2014	27,669	10,909	8,065	91,331	23,657	28,115	24,774	6,947	48,941
2015	3,111	60,575	23,176	57,820	79,590	54,449	22,410	31,890	129,043
2016	29,329	62,009	13,596	21,649	110,057	43,483	34,029	22,926	56,020
Total	303,305	617,385	247,571	478,977	1,494,880	796,787	502,016	1,179,077	3,188,286

SABLEFISH TABLES

Table 17 Southeast sablefish movement (relocation)

	AKr > AKu	AKr > AKr	AKr > Non	AKu > AKr	AKu > AKu	AKu > Non	Non > AKr	Non > AKu	Non > Non
2002			27,206	29,115	37,930	678		63,062	46,183
2003	5,034		13,686				100,052		100,536
2004		35		57,232	4,487			3,047	33,000
2005						120,660		81,193	150,785
2006			26,386	8,344	89,972	167,167		96,690	100,883
2007	49,990			4,900		138,772		34,961	271,996
2008		11,446	54,840	16,126	40,395	722		16,367	77,934
2009			2,008	8,427		48,259		6,701	10,986
2010		59,274			36	65		9,913	32,693
2011	19,032		9,910	8		25,198	3,987		58,228
2012				20,335		4,659	19,449	31,154	139,463
2013	31,711		21,120	31,830	11,013	64,597	14,382	24,998	131
2014		327	22,019		18,903	11,537	36,568	54,824	101,487
2015	5,663	5,950		3,331		30,161		601	252,337
2016	26,881	4,773		21,226	19,473	49,056	5,655	14,202	37,249
Total	138,311	81,805	177,175	200,874	222,209	761,583	80,041	437,713	1,413,891

Table 18 Southeast sablefish movement (transfer)

	AKr > AKu	AKr > AKr	AKr > Non	AKu > AKr	AKu > AKu	AKu > Non	Non > AKr	Non > AKu	Non > Non
2002	55,829	107,595	3,335	19,172	213,218	95,383	9,531	136,877	109,464
2003	7,016	11,029	83,704	10,267	178,346	170,311		29,382	396,264
2004	12,087	39,719	24,817	3,177	160,022	86,504	18,015	26,421	221,846
2005	54,202	108,746	33,379	29,384	231,541	127,288	22,284	30,150	138,024
2006	41,171	92,581	4,022	28,847	95,520	65,216		89,585	115,429
2007		44,912	20,305	13,198	144,655	83,913	10,977	3,830	170,141
2008	7,847	36,536	4,707	28,478	200,373	124,532	85	75,306	101,081
2009	1,302	24,739		4,865	158,498	58,370		2,123	126,351
2010	3,554	135	144	14,933	196,636	70,334	7,500	17,943	60,126
2011	3,983	2,116	15,114	33,947	239,379	66,876	22,512	9,030	91,270
2012	6,235	24,396	1,048	46,528	78,756	21,256			87,611
2013	69,303	19,553	14,655	2,299	124,120	39,788		33	55,208
2014	9,408	59,162	11,255	43,270	180,056	121,296			68,039
2015	5,824	4,944	16,605	27,098	110,374	59,760	2,541	12,880	98,492
2016	26,234	43,767	52,422	28,169	128,222	67,237		38,281	81,601
Total	303,995	619,930	285,512	333,632	2,439,716	1,258,064	93,445	471,841	1,920,947

Table 19 West Yakutat sablefish movement (relocation)

	AKr > AKu	AKr > AKr	AKr > Non	AKu > AKr	AKu > AKu	AKu > Non	Non > AKr	Non > AKu	Non > Non
2002			494	15,066	156	25,875	3,611	737	33,254
2003	80				266	1,025			44,044
2004						10,851		4,177	24,171
2005						14		8,819	23,938
2006			4,637		872	42,163		15,473	55,817
2007		3,298		27,958		6,156		38,320	120,004
2008	46	3,060	16,766		6,341	4,267		11	20,905
2009			1,638					26,566	66,475
2010						7		6,703	66,655
2011		2,880							30,699
2012				3,171		14,734			109,171
2013			6,093		5,858	5,647	8	47,335	
2014		169			12,858	2,575		4,740	86,145
2015			3,067			30,759			95,236
2016			1,634			2,892	23,660		80,106
Total	126	9,407	34,329	46,195	26,351	146,965	27,279	152,881	856,620

Table 20 West Yakutat sablefish movement (transfer)

	AKr > AKu	AKr > AKr	AKr > Non	AKu > AKr	AKu > AKu	AKu > Non	Non > AKr	Non > AKu	Non > Non
2002		18,597	3,611	3,011	3,261	1,661	8,875	41,901	120,974
2003	24,606	48,081	709	40,575	25,513	5,895	13,863	20,312	31,798
2004	8,562	22,552			40,674		4,476	13,043	33,067
2005		25,176	2,879	2,594	41,272	20,360	20,729	19,610	75,394
2006	118	23,051	21,934	3,513	19,574	13,326		5,780	29,251
2007	172	61,352	2,696		4,285	13,033	24,430	20,353	160,686
2008		20,151	16,766	3,816	45,816	3,257	19,821	6,167	14,716
2009		5,410	14,088		3,352	469		14,335	33,216
2010	162	6,693		13,123	12,385	6,703	1,215	9,526	223
2011	14,199	6,060		15,838	46,196	168	18,865	49,266	909
2012					10,093			3,959	3,201
2013		14,467			9,960			9,353	
2014	20,368			3,671	26,751	9,561		10,573	37,812
2015	13,429	18,139		5,824	28,285	21,939	2,917	6,277	11,919
2016	13	21,930			35,620		5,764	10,687	6,575
Total	81,629	291,659	62,683	91,965	353,037	96,372	120,955	241,142	559,741

Table 21 Central GOA sablefish movement (relocation)

	AKr > AKu	AKr > AKr	AKr > Non	AKu > AKr	AKu > AKu	AKu > Non	Non > AKr	Non > AKu	Non > Non
2002				34,616	45,333	127,202	47,969	317	210,780
2003	5,136				1,716	72,312			77,780
2004						120,258		56,162	33,704
2005					5,648	39,692		65,542	144,136
2006		402		39	396	45,266		47,961	87,406
2007	13,177	46,007		182,215		42,442		11,196	208,001
2008	151,504	40,879	51,904	47,389	38,458	15,126			67,969
2009						4,356		108,471	84,747
2010					129,149	17		39,925	10,367
2011	59,996	35,230			135,584	227		4,309	260,946
2012	472			27,191		6,616			109,548
2013	454		58,551	686	38,330	11,964		78,206	104,935
2014		3,732				5,657		44,381	312,868
2015	9,914	6,603			6,596	178,005		61,837	278,603
2016					10	25,527	130,017		52,174
Total	240,653	132,853	110,455	292,136	401,220	694,667	177,986	518,307	2,043,964

Table 22 Central GOA sablefish movement (transfer)

	AKr > AKu	AKr > AKr	AKr > Non	AKu > AKr	AKu > AKu	AKu > Non	Non > AKr	Non > AKu	Non > Non
2002	1,757	12,923		7,009	35,848	77,540	47,969	122,769	244,418
2003	10,339	210,302	26,856	48,034	88,219	19,231	45,252	89,793	356,098
2004	9,953	124,293		129	110,206	27,901		77,156	169,271
2005	510	178,782		6,766	94,999	36,327	20,740	73,082	130,594
2006	1,229	106,315	30,000		107,673	44,284	125,174	23	188,075
2007	5,656	30,151		11,063	37,203	86,026	36,339	48,026	523,704
2008	42,733	46,864	36,208	15	129,520	2,242		4,718	173,508
2009	3,392	16,803	10,000	2,465	46,467	60,431	75,155	13,354	72,305
2010		6,892		3,068	82,062	26,552	3,236	47,776	42,418
2011	51,239	34,766		8,034	55,483	33,444		19,765	76,381
2012	8,561	17,198	15,000	135	80,247	20,076		66,477	167,830
2013	11,356	138,622	4,675	19,185	58,084	49,944	4,383	53,198	37,721
2014	37,672	104,789	3,703	95,318	59,797	22,598	3,950		59,420
2015	11,761	66,043	23,113	77,135	78,656	26,386		33,970	77,956
2016	18,688	115,885	43,247	12,010	50,709	97,558	17,199	8,262	115,659
Total	214,846	1,210,628	192,802	290,366	1,115,173	630,540	379,397	658,369	2,435,358

Table 23 Western GOA sablefish movement (relocation)

	AKr > AKu	AKr > AKr	AKr > Non	AKu > AKr	AKu > AKu	AKu > Non	Non > AKr	Non > AKu	Non > Non
2002						18,044			41,052
2003				2,347		33,291			16,361
2004			2,675			71,455			138
2005						12		560	32,692
2006		34,703	10,873		73	2,738	7,429	10,873	40,231
2007				71,923		7,569		448	235,102
2008	54,691			2,006	38,684			144,421	15,401
2009			4,590						79,065
2010					26,247	30,372			145,878
2011					46,598	5			14,746
2012									12,417
2013	3,067			18,982	46,624			9,915	26,876
2014		9,997			337				4,955
2015		17,346	15,986		162			35,940	192,460
2016									7,687
Total	57,758	62,046	34,124	95,258	158,725	163,486	7,429	202,157	865,061

Table 24 Western GOA sablefish movement (transfer)

	AKr > AKu	AKr > AKr	AKr > Non	AKu > AKr	AKu > AKu	AKu > Non	Non > AKr	Non > AKu	Non > Non
2002						97,373	12,780	85,022	197,024
2003	810		949		8,990	50,007		62,048	540,725
2004	2,802		50,188		79,932	128,529	18,169	26,153	411,817
2005	41,895	8,881	129,051		16,786	8,319		111,192	182,675
2006	10,946			124		199,025	44,253	9,493	178,569
2007		10,059		6,235	59	189,917		72,982	181,276
2008	12,693			11,163	133,772	109,746		636	90,892
2009				9,687	10,864	97,895		41,535	73,311
2010	30,750		8,077	17,173	46,193	84,954	13,232	11,149	132,479
2011	7,190	904			17,651	101,710		24,359	76,533
2012		451			32,598	86,485	15,405	18,871	52,923
2013	43,304				24,345	125,621			90,051
2014		413	105,260	14,042	41,619	19,468	2,379	21,375	
2015	25,403		112,815	14,537	27,391	35,769		18,312	20,143
2016	26,423		145,366	9,894	51,882	21,065		4,323	6,097
Total	202,216	20,708	551,706	82,855	492,082	1,355,883	106,218	507,450	2,234,515

Table 25 BS and AI sablefish movement (relocation)

	AKr > AKu	AKr > AKr	AKr > Non	AKu > AKr	AKu > AKu	AKu > Non	Non > AKr	Non > AKu	Non > Non
2002				10,102	7,751	43,122			117,573
2003						107,969			55,024
2004						31,814			30,566
2005						101,776			226,569
2006				5,688	12,499				35,381
2007				96,165		197,619		13,408	290,957
2008	54,584			41,016	202,758			225,112	214,674
2009			9,852	29,421	34,435			5,911	55,331
2010					107,253	474	10,155	102,545	5,758
2011				518	46,598				22,412
2012					13,271	13,647			34,112
2013	4,731				146,775		36,248	23,327	8,457
2014					66				185,883
2015			115,972		9,126				593,508
2016	834							208,261	45,382
Total	60,149	0	125,824	182,910	580,532	496,421	46,403	578,564	1,921,587

Table 26 BS and AI sablefish movement (transfer)

	AKr > AKu	AKr > AKr	AKr > Non	AKu > AKr	AKu > AKu	AKu > Non	Non > AKr	Non > AKu	Non > Non
2002	11,000		67,106		131,577	85,845	1,578	183,278	289,751
2003	2,662	8,348	55,068		148,195	34,322		271,444	1,355,942
2004	8,348		60,596		121,147		45,116	169,338	364,651
2005	12,757	9,433		29,254	13,193	215,279	14,912	187,670	324,378
2006	9,979			59,712	82,715	20,000	17,234	17,913	568,161
2007	23,577	9,985	12,376	6,000	71,610	2,273	5,944	60,564	327,642
2008	8,274		21,868		51,147	25,834		264,027	191,435
2009	33,265	22,721			31,429	59,501		399,413	282,703
2010	117,977			17,496	49,795	216,080	20,428	245,269	163,373
2011		11,396		50,543	249,823	66,833	44,880	208,818	351,058
2012		4,459	35,299	62,317	117,692	51,294	50,569	99,469	388,259
2013		31,124		22,790	80,183	21,094	18,720	88,455	29,825
2014	10,344	2,679		40,268	9,832	38,109	6,995	106,308	53,875
2015	2,968	7,552		45,200	39,674			19,455	15,599
2016	35,480	6,592		2,012	42,241		4,997	4,290	7,567
Total	276,631	114,289	252,313	335,592	1,240,253	836,464	231,373	2,325,711	4,714,219