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Subsistence sockeye salmon harvests, Chignik Area

From 1993–2008, 2011 and 2014, postseason household surveys were conducted to supplement harvest data collected through returned permits.

Due to budget limitations, the Division of Subsistence was unable to administer postseason household surveys in 2009, 2010, 2012, and 2013. In these years data were collected solely from returned permits. Because not all subsistence fishing households obtained a permit, and not all permits were filled out completely, estimates based solely on returned permit data likely underestimate subsistence harvest amounts.

To compensate for this underestimate, the average annual harvests for the period 1999–2008 and 2011 reported during postseason surveys were added to harvests from returned permits to estimate the total subsistence harvest for 2009, 2010, 2012, and 2013.

For years that had missing timeframe or area data, two procedures were used to estimate the missing data. For years for which postseason survey data are available, the proportions of the salmon harvest by time and area from the reported survey data for each year were applied to the missing permit data. For the four years that are missing postseason survey data (2009, 2010, 2012, and 2013—**highlighted in bold**), we estimated the missing data using the annual averages of the proportions of the harvests by time and area from years 1999–2008, 2011, and 2014.

The ANSs for the Chignik Bay, Central, and Eastern districts combined are 100–150 king salmon, 5,200–9,600 early-run sockeye salmon, 2,000–3,800 late-run sockeye salmon, and 400–700 salmon other than king or sockeye salmon. The ANS for late-run sockeye salmon was calculated from harvests that occurred after September 15, based on harvest patterns, not specific run timing.

Table 1.—Chignik Area subsistence sockeye salmon harvests, by district, date, and year.

Date and year	Estimated sockeye salmon harvest		Total, all districts
	Chignik Bay, Central, and Eastern districts	Perryville and Western districts	
<i>Harvest before July 5</i>			
1993	9,235	13	9,247
1994	7,322	324	7,646
1995	6,095	0	6,095
1996	3,318	45	3,363
1997	6,959	395	7,354
1998	3,804	127	3,931
1999	5,095	69	5,164
2000	5,518	199	5,717
2001	4,028	296	4,324
2002	5,300	70	5,370
2003	7,055	42	7,097
2004	3,335	318	3,653
2005	3,524	292	3,816
2006	3,575	363	3,939
2007	5,093	168	5,261
2008	2,650	20	2,670
2009	2,973	79	3,052
2010	2,909	42	2,951
2011	3,195	213	3,407
2012	2,145	687	2,832
2013	3,183	15	3,198
2014	3,116	706	3,822
5-year avg (2009–2013)	2,881	207	3,088
10-year avg (2004–2013)	3,258	220	3,478
21-year avg (1993–2013)	4,586	180	4,766
<i>Harvest from July 5 to September 15</i>			
1993	1,141	29	1,170
1994	3,221	376	3,597
1995	432	34	466
1996	1,664	374	2,038
1997	1,884	249	2,133
1998	1,153	284	1,437
1999	1,709	201	1,910
2000	1,419	120	1,538
2001	1,377	59	1,436
2002	2,467	286	2,752
2003	1,941	105	2,046

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Date and year	Estimated sockeye salmon harvest		
	Chignik Bay, Central, and Eastern districts	Perryville and Western districts	Total, all districts
2004	1,171	958	2,129
2005	3,018	538	3,556
2006	2,383	803	3,186
2007	1,623	573	2,196
2008	3,600	171	3,771
2009	2,240	37	2,277
2010	3,151	325	3,476
2011	5,230	412	5,642
2012	1,666	408	2,074
2013	2,668	203	2,871
2014	1,835	410	2,245
5-year avg (2009–2013)	2,820	366	3,187
10-year avg (2004–2013)	2,675	443	3,118
21-year avg (1993–2013)	2,150	312	2,462
<i>Harvest after September 15</i>			
1993	4,214	79	4,293
1994	2,676	58	2,735
1995	2,956	46	3,002
1996	1,927	29	1,956
1997	3,935	19	3,954
1998	2,383	0	2,383
1999	1,965	1	1,966
2000	2,270	35	2,305
2001	2,859	14	2,873
2002	1,958	12	1,970
2003	1,739	107	1,846
2004	1,233	14	1,247
2005	709	91	799
2006	928	27	955
2007	2,509	225	2,734
2008	698	50	748
2009	1,456	0	1,456
2010	1,639	82	1,721
2011	1,528	0	1,528
2012	669	32	701
2013	503	17	519
2014	1,715	73	1,788

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Estimated sockeye salmon harvest			
Date and year	Chignik Bay, Central, and Eastern districts	Perryville and Western districts	Total, all districts
5-year avg (2009–2013)	1,159	26	1,185
10-year avg (2004–2013)	1,187	54	1,241
21-year avg (1993–2013)	1,941	45	1,985
Total harvests			
1993	14,589	120	14,710
1994	13,220	758	13,978
1995	9,483	80	9,563
1996	6,909	448	7,357
1997	12,778	664	13,442
1998	7,340	410	7,750
1999	8,769	271	9,040
2000	9,207	354	9,561
2001	8,264	369	8,633
2002	9,725	367	10,092
2003	10,735	254	10,989
2004	5,739	1,290	7,029
2005	7,250	921	8,171
2006	6,886	1,193	8,079
2007	9,224	967	10,191
2008	6,948	241	7,189
2009	6,670	115	6,785
2010	7,698	450	8,148
2011	9,953	625	10,578
2012	4,480	1,126	5,607
2013	6,354	234	6,588
2014	6,666	1,189	7,855
5-year avg (2009–2013)	7,121	609	7,730
10-year avg (2004–2013)	7,120	716	7,836
21-year avg (1993–2013)	8,677	536	9,213

Source ADF&G Division of Subsistence.

Table 2.— Estimated subsistence sockeye salmon harvests in the Chignik Bay Area (including river, lagoon, and lake subarea; no harvests occur in the Central and Eastern districts), by date and year.

Year	Harvest before July 5	Harvest July 5 through September 15	Harvest after September 15	Subtotal, all harvest on or after July 5	Total, all harvests
1993	9,235	1,141	4,214	5,355	14,589
1994	7,322	3,221	2,676	5,898	13,220
1995	6,095	432	2,956	3,388	9,483
1996	3,318	1,664	1,927	3,591	6,909
1997	6,959	1,884	3,935	5,819	12,778
1998	3,804	1,153	2,383	3,535	7,340
1999	5,095	1,709	1,965	3,674	8,769
2000	5,518	1,419	2,270	3,689	9,207
2001	4,028	1,377	2,859	4,236	8,264
2002	5,300	2,467	1,958	4,425	9,725
2003	7,055	1,941	1,739	3,679	10,735
2004	3,335	1,171	1,233	2,404	5,739
2005	3,524	3,018	709	3,726	7,250
2006	3,575	2,383	928	3,311	6,886
2007	5,093	1,623	2,509	4,132	9,224
2008	2,650	3,600	698	4,298	6,948
2009	2,973	2,240	1,456	3,696	6,670
2010	2,909	3,151	1,639	4,790	7,698
2011	3,195	5,230	1,528	6,759	9,953
2012	2,145	1,666	669	2,335	4,480
2013	3,183	2,668	503	3,171	6,354
2014	3,116	1,835	1,715	3,551	6,666
5-year avg (2009–2013)	2,881	2,991	1,159	4,150	7,031
10-year avg (2004–2013)	3,258	2,675	1,187	3,862	7,120
21-year avg (1993–2013)	4,586	2,150	1,941	4,091	8,677

Source ADF&G Division of Subsistence.

Table 3 . –Subsistence sockeye salmon harvests for the Chignik Lake subarea, by date, and year.

Year	Harvest before July 5	Harvest from July 5 to September 15	Harvest after September 15	Totals
1993	223	241	3,201	3,665
1994	654	1,037	2,213	3,904
1995	39	129	2,224	2,391
1996	11	319	1,923	2,254
1997	533	791	3,545	4,869
1998	0	424	1,734	2,158
1999	260	461	1,173	1,894
2000	457	223	1,856	2,536
2001	271	297	2,437	3,004
2002	570	924	1,908	3,401
2003	978	493	1,644	3,115
2004	400	160	1,233	1,793
2005	382	851	702	1,935
2006	660	870	742	2,273
2007	1,580	230	1,224	3,034
2008	542	1,198	578	2,317
2009	256	966	855	2,076
2010	975	876	586	2,438
2011	939	1,179	1,390	3,508
2012	757	324	669	1,751
2013	1,397	837	308	2,543
2014	1,213	919	1,614	3,746
5-year avg (2009–2013)	865	836	762	2,463
10-year avg (2004–2013)	789	749	829	2,367
21-year avg (1993–2013)	566	611	1,531	2,707

Source ADF&G Division of Subsistence.

Note The Chignik Lake subarea includes subsistence harvests in the Chignik River from Mensis Point in Chignik Lagoon up to Black Lake.

Figure 1. Estimated subsistence harvests of late-run sockeye salmon, Chignik Bay, Central, and Eastern districts combined, compared to ANS range

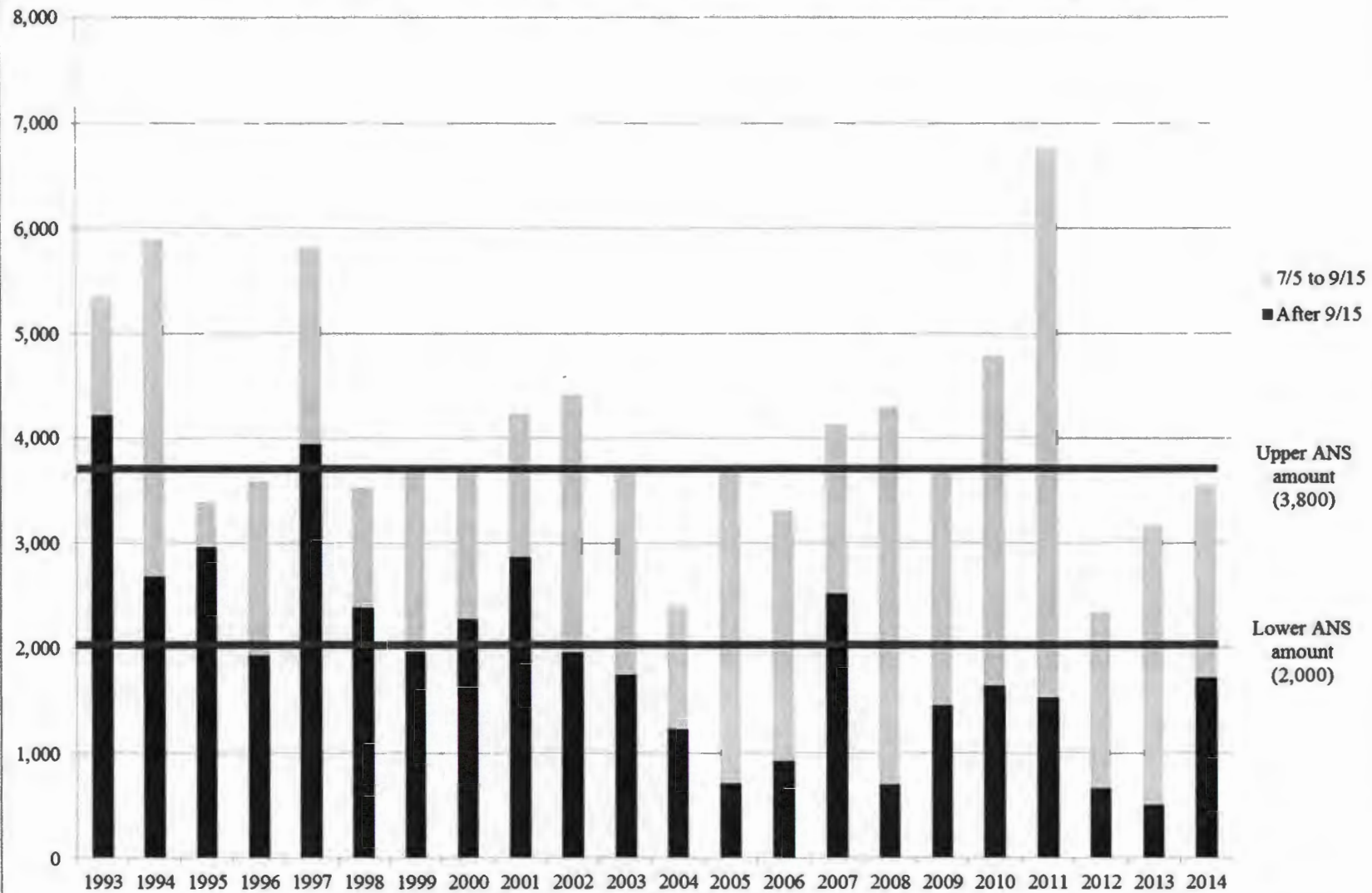


Figure 2. Estimated harvests of early-run sockeye salmon, Chignik Bay, Central, and Eastern districts combined, compared to ANS range

