

Deliberation Materials for the Alaska Board of Fisheries: Chignik Management Area Subsistence Salmon Fishery

by the

Alaska Department of Fish and Game, Division of Subsistence

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Division of Subsistence



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Table 1.—Chignik Management Area: customary and traditional (C&T) use determinations and amount necessary for subsistence (ANS) findings for finfish.

- C&T Finding: The Board has found that salmon and finfish other than salmon are customarily and traditionally taken or used or subsistence purposes in the Chignik Area 5 AAC 01 466(a).

- ANS finding (from 5 AAC 01.466(b)):
 1. In the Perryville and Western districts, combined:
 - A. 1,400 – 2,600 coho salmon
 - B. 1,400 – 2,600 salmon, other than coho salmon

 2. In the Chignik Bay, Central, and Eastern districts, combined:
 - A. 5,200 – 9,600 early-run sockeye salmon
 - B. 2,000 – 3,800 late-run sockeye salmon
 - C. 100 – 150 king salmon
 - D. 400 – 700 salmon, other than sockeye and king salmon

 3. In the Chignik Area:
 - A. 200 – 300 rainbow/steelhead trout
 - B. 15,200 – 22,800 pounds of usable weight of finfish, other than salmon

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Table 2.—Population of communities in the Chignik Management Area, 1980, 1990, 2000, 2003, 2004 and 2006.

	Census Year 1980		Census Year 1990		Census Year 2000		2003 Est.	2004 Est.	2006 Est.
	Households	Population	Households	Population	Households	Population	Population	Population	Population
Chignik	47	178	46	188	29	79	89	92	85
Chignik Lag.	14	48	17	53	33	103	92	81	70
Chignik Lk.	38	138	34	133	40	150	113	113	120
Ivanof Bay	9	40	9	35	9	22	3	5	0
Perryville	31	111	31	108	33	107	106	110	120
Total	139	515	137	517	144	461	403	401	395

Sources: U.S. Bureau of the Census for 1980 - 2000; Alaska Department of Labor and Workforce Development Population Estimates, Table 4.3, Alaska Boroughs, Census Areas, and Places for 2000 – 2003; Alaska Department of Commerce, Community, and Economic Development Division of Community Advocacy, population estimates for 2004 and 2006.

Table 3.—Historic subsistence salmon harvests, Chignik Area, 1977-2006.

YEAR	PERMITS		ESTIMATED SALMON HARVEST					TOTAL
	ISSUED	RETURNED	CHINOOK	SOCKEYE	COHO	CHUM	PINK	
1977			50	9,700	2,400	600	1,800	14,550
1978			50	6,000	500	600	2,100	9,250
1979			14	7,750	34	0	262	8,060
1980	82	37	6	12,475	32	169	478	13,160
1981	29	7	0	2,049	0	0	0	2,049
1982	59	15	3	8,532	12	0	2	8,548
1983	32	21	0	3,078	1,319	850	1,250	6,497
1984	77	64	23	8,747	464	204	330	9,768
1985	59	48	1	7,177	50	25	26	7,279
1986	74	38	4	10,347	205	77	98	10,730
1987	na	na	10	7,021	278	204	261	7,774
1988	80	34	9	9,073	1,455	142	54	10,733
1989	68	23	24	7,551	384	147	81	8,187
1990	72	23	103	8,099	210	115	470	8,996
1991	95	58	42	11,483	13	81	275	11,893
1992	98	19	55	8,648	709	145	305	9,862
1993	201	141	122	14,710	3,765	642	1,265	20,503
1994	219	122	165	13,978	4,055	382	1,720	20,300
1995	111	95	98	9,563	1,191	150	723	11,726
1996	119	104	48	7,357	2,126	355	2,204	12,089
1997	126	103	28	13,442	2,678	840	2,035	19,024
1998	104	72	91	7,750	1,390	186	1,007	10,424
1999	106	88	243	9,040	1,679	136	1,191	12,290
2000	130	112	163	9,561	1,802	517	1,185	13,227
2001	135	122	171	8,633	1,859	213	2,787	13,663
2002	120	86	74	10,092	1,401	23	390	11,980
2003	146	127	267	10,989	2,256	286	1,597	15,394
2004	104	57	88	7,029	1,981	202	1,047	10,347
2005	119	100	224	8,171	2,112	353	730	11,590
2006	113	79	258	8,079	1,539	275	1,035	11,187
5-Year								
Average	120	90	182	8,872	1,858	228	960	12,100
10-Year								
Average	120	95	161	9,279	1,870	303	1,300	12,913
All Years								
Average	103	69	81	8,871	1,263	264	890	11,369

Sources: ADF&G Division of Subsistence Alaska Subsistence Fisheries Database, Version 3.5; Quimby and Owen 1994:90 for 1976-1979 and 1987.

Table 4.—Number of permits issued and estimated subsistence salmon harvest by species, Chignik Management Area subsistence permits holders from Chignik, 1993-2006.

Year	Permits Issued	Est. Permits Fished	Estimated Harvests						Total	Catch per Permit Fished
			Chinook	Sockeye	Coho	Pink	Chum			
1993	44	30	53	2,233	234	7	68	2,595	87	
1994	49	31	31	2,096	285	27	7	2,445	78	
1995	29	23	74	1,879	107	5	0	2,065	91	
1996	20	16	26	829	132	53	52	1,092	67	
1997	19	16	5	2,510	119	32	51	2,715	172	
1998	10	10	6	1,238	20	3	5	1,271	127	
1999	11	9	129	825	10	23	10	997	111	
2000	13	11	0	1,159	173	87	125	1,544	143	
2001	12	12	4	758	12	32	22	828	69	
2002	17	16	9	1,306	170	0	0	1,485	94	
2003	22	19	88	1,796	136	12	6	2,038	108	
2004	16	14	19	306	163	0	0	488	34	
2005	22	20	24	1,208	151	58	23	1,464	73	
2006	8	4	6	534	8	0	0	548	137	
Average	22	17	37	1,411	130	23	29	1,630	99	

Source: ADF&G Division of Subsistence Chignik Area Subsistence Salmon Permit Database

Table 5.—Number of permits issued and estimated subsistence salmon harvest by species, Chignik Management Area subsistence permits holders from Chignik Lagoon, 1993-2006.

Year	Permits Issued	Est. Permits Fished	Estimated Harvests						Total	Catch per Permit Fished
			Chinook	Sockeye	Coho	Pink	Chum			
1993	36	33	33	3,569	441	80	3	4,125	125	
1994	52	31	24	2,314	189	0	7	2,534	83	
1995	17	15	11	2,459	0	0	0	2,471	167	
1996	12	12	0	1,491	41	0	0	1,532	128	
1997	20	19	6	2,503	0	0	0	2,509	133	
1998	15	15	53	1,924	139	0	25	2,141	143	
1999	31	30	28	3,295	86	0	3	3,411	114	
2000	25	24	88	2,363	8	0	0	2,460	103	
2001	38	31	87	2,843	240	33	0	3,202	105	
2002	31	24	32	2,396	68	0	0	2,496	106	
2003	35	34	126	3,459	35	17	0	3,636	108	
2004	31	31	16	3,577	78	50	23	3,743	121	
2005	26	24	157	1,896	114	27	14	2,208	92	
2006	29	22	131	2,850	74	13	7	3,074	140	
Average	28	25	56	2,638	108	16	6	2,824	115	

Source: ADF&G Division of Subsistence Chignik Area Subsistence Salmon Permit Database

Table 6.—Number of permits issued and estimated subsistence salmon harvest by species, Chignik Management Area subsistence permits holders from Chignik Lake, 1993-2006.

Year	Permits Issued	Est. Permits Fished	Estimated Harvests						Total	Catch per Permit Fished
			Chinook	Sockeye	Coho	Pink	Chum			
1993	41	36	6	5,698	328	153	75	6,259	173	
1994	42	38	18	5,422	19	0	0	5,459	143	
1995	24	24	10	3,349	50	42	0	3,451	144	
1996	32	32	15	3,310	4	22	0	3,352	105	
1997	30	30	14	5,032	0	109	0	5,155	172	
1998	24	19	6	3,296	86	48	0	3,437	179	
1999	11	11	51	1,924	112	73	0	2,161	196	
2000	17	17	15	2,464	0	5	0	2,484	146	
2001	26	26	41	2,930	0	0	0	2,970	114	
2002	23	23	8	2,979	75	0	0	3,061	133	
2003	24	23	2	2,621	46	7	1	2,677	117	
2004	12	12	19	1,094	185	17	0	1,315	110	
2005	24	15	30	2,714	264	40	0	3,048	203	
2006	26	15	42	2,574	125	0	0	2,740	183	
Average	25	23	20	3,243	92	37	5	3,398	148	

Source: ADF&G Division of Subsistence Chignik Area Subsistence Salmon Permit Database

Table 7.—Number of permits issued and estimated subsistence salmon harvest by species, Chignik Management Area subsistence permits holders from Perryville, 1993-2006.

Year	Permits Issued	Est. Permits Fished	Estimated Harvests						Total	Catch per Permit Fished
			Chinook	Sockeye	Coho	Pink	Chum			
1993	42	35	25	1,478	1,999	746	151	4,400	126	
1994	43	31	48	1,935	2,583	1,361	141	6,068	199	
1995	20	19	1	820	489	621	63	1,995	107	
1996	37	29	7	1,029	1,361	1,997	156	4,550	156	
1997	32	32	2	1,979	1,763	1,720	461	5,926	185	
1998	43	34	22	1,143	1,085	397	81	2,727	79	
1999	43	40	24	2,309	1,254	1,031	53	4,671	116	
2000	42	35	29	1,747	1,037	805	177	3,797	110	
2001	27	27	9	911	1,312	2,688	88	5,008	185	
2002	30	30	11	1,692	1,058	390	23	3,174	106	
2003	46	44	28	2,199	1,962	1,498	279	5,965	136	
2004	31	30	31	1,846	1,556	977	179	4,588	155	
2005	38	34	4	1,863	1,576	600	315	4,358	128	
2006	42	34	75	2,018	1,293	1,018	268	4,673	137	
Average	37	32	23	1,641	1,452	1,132	174	4,421	137	

Source: ADF&G Division of Subsistence Chignik Area Subsistence Salmon Permit Database

Table 8.—Number of permits issued and estimated subsistence salmon harvest by species, Chignik Management Area subsistence permits holders from Ivanof Bay, 1993-2006.

Year	Permits Issued	Est. Permits Fished	Estimated Harvests						Total	Catch per Permit Fished
			Chinook	Sockeye	Coho	Pink	Chum			
1993	13	13	4	301	762	279	345	1,691	130	
1994	13	13	23	681	978	333	219	2,234	172	
1995	11	7	1	154	545	55	81	836	127	
1996	12	12	0	417	587	132	147	1,283	107	
1997	14	14	0	604	782	175	324	1,885	135	
1998	6	6	3	150	60	300	75	588	98	
1999	2	2	2	105	215	60	40	422	211	
2000	15	14	3	439	583	288	181	1,493	109	
2001	5	5	2	105	295	35	41	478	96	
2002	1	0	0	0	0	0	0	0	0	
2003	0	0	0	0	0	0	0	0	0	
2004	0	0	0	0	0	0	0	0	0	
2005	0	0	0	0	0	0	0	0	0	
2006	1	1	0	0	35	0	0	35	35	
Average	7	6	3	211	346	118	104	992	161	

Source: ADF&G Division of Subsistence Chignik Area Subsistence Salmon Permit Database

Table 9.—Number of permits issued and estimated subsistence salmon harvest by species, non-local residents of the Chignik Management Area, 1993-2006.

Year	Permits Issued	Est. Permits Fished	Estimated Harvests						Total	Catch per Permit Fished
			Chinook	Sockeye	Coho	Pink	Chum			
1993	25	12	2	1,431	0	0	0	1,433	119	
1994	20	16	2	1,530	0	0	8	1,540	96	
1995	10	9	0	902	0	0	6	908	107	
1996	6	3	0	280	0	0	0	280	112	
1997	11	8	1	814	14	0	5	834	104	
1998	6	5	0	0	0	260	0	260	52	
1999	8	7	9	583	2	4	30	628	90	
2000	18	11	28	1,389	0	0	34	1,450	132	
2001	27	15	28	1,087	0	0	63	1,178	80	
2002	18	12	14	1,720	30	0	0	1,764	147	
2003	19	16	23	915	77	64	0	1,079	67	
2004	14	6	3	207	0	3	0	213	36	
2005	37	13	0	105	0	0	0	105	8	
2006	11	8	5	103	4	4	0	116	15	
Average	15	10	9	905	10	28	12	964	97	

Source: ADF&G Division of Subsistence Chignik Area Subsistence Salmon Permit Database

Table 10.—Salmon removed from commercial catches for home use, Chignik Area, 1994-2007.

Year	Permits	Landings	Number of Salmon					Total
			Chinook	Sockeye	Coho	Pink ²	Chum ²	
1994	0	0	0	0	0	0	0	0
1995	31	54	232	0	913	0	5	1,150
1996	57	274	40	40	20	5,262	21,100	26,462
1997	7	7	88	664	0	0	0	752
1998	23	59	108	267	27	0	155	557
1999	40	96	211	26	200	0	3	440
2000	5	5	20	0	0	0	0	20
2001	26	50	90	217	7	7	129	450
2002	15	69	77	1,371	164	0	0	1,612
2003	33	158	309	2,411	74	407	0	3,201
2004	21	67	158	1,690	0	0	0	1,848
2005	53	97	271	1,364	5	234	115	1,989
2006	18	30	68	267	175	0	0	510
2007	11	17	16	285	56	0	1	358

¹ Includes fish commercially harvested but not sold. Also called "home pack" and "personal use." We do not call this a personal use harvest so as not to cause confusion with the non-commercial personal use category. There is no noncommercial personal use salmon fishery in the Chignik Area.

² In 1996, there was no market for pink or chum salmon harvested in the Western and Perryville districts. In order to keep the districts open for sockeye salmon fishing, commercial fishers recorded non-targeted pinks and chums as home use.

Source: ADF&G Division of Commercial Fisheries.

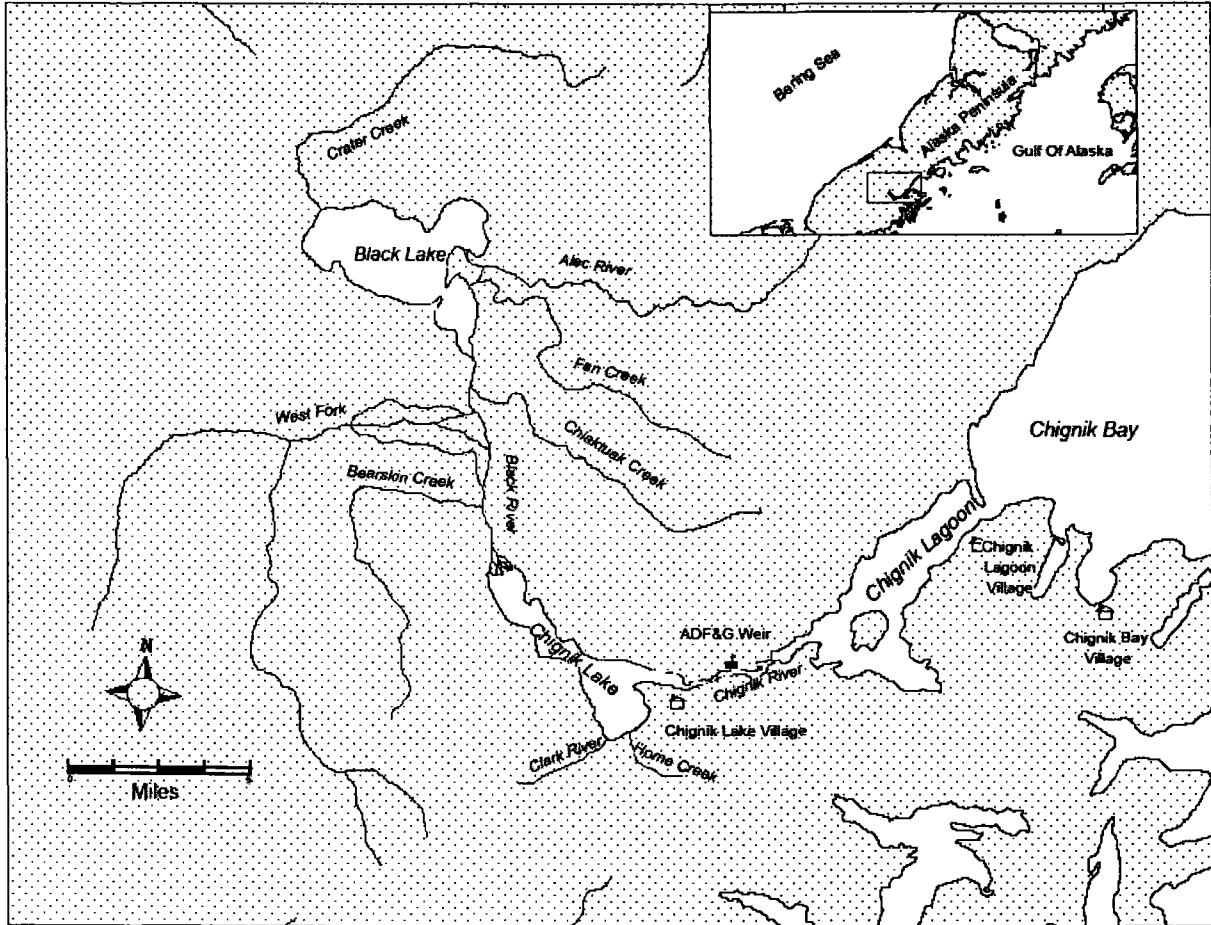


Figure 1.—Map showing Chignik bay, lagoon, and lake, including Clark River and Home Creek.

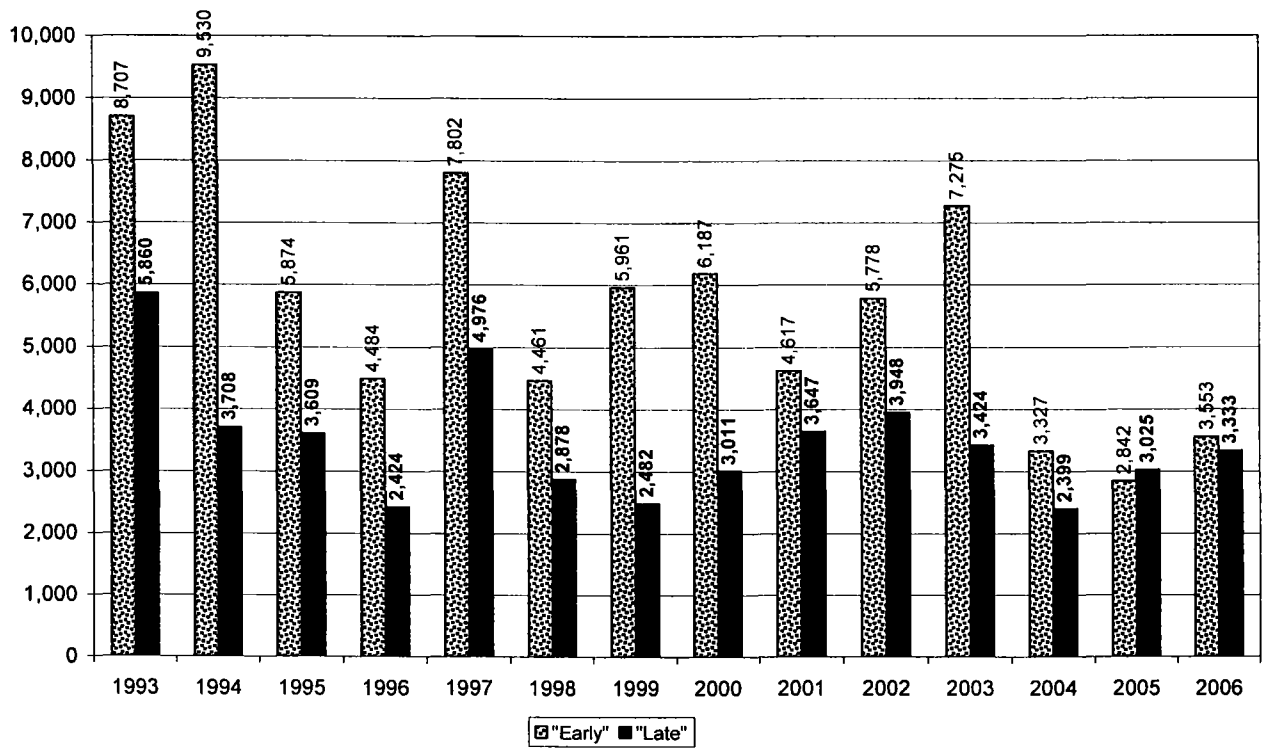


Figure 2.—Estimated subsistence harvests sockeye salmon of early (before 7/5) and late (after 7/5) run in Chignik Bay, Chignik Lagoon and Chignik Lake waters, 1993-2006.

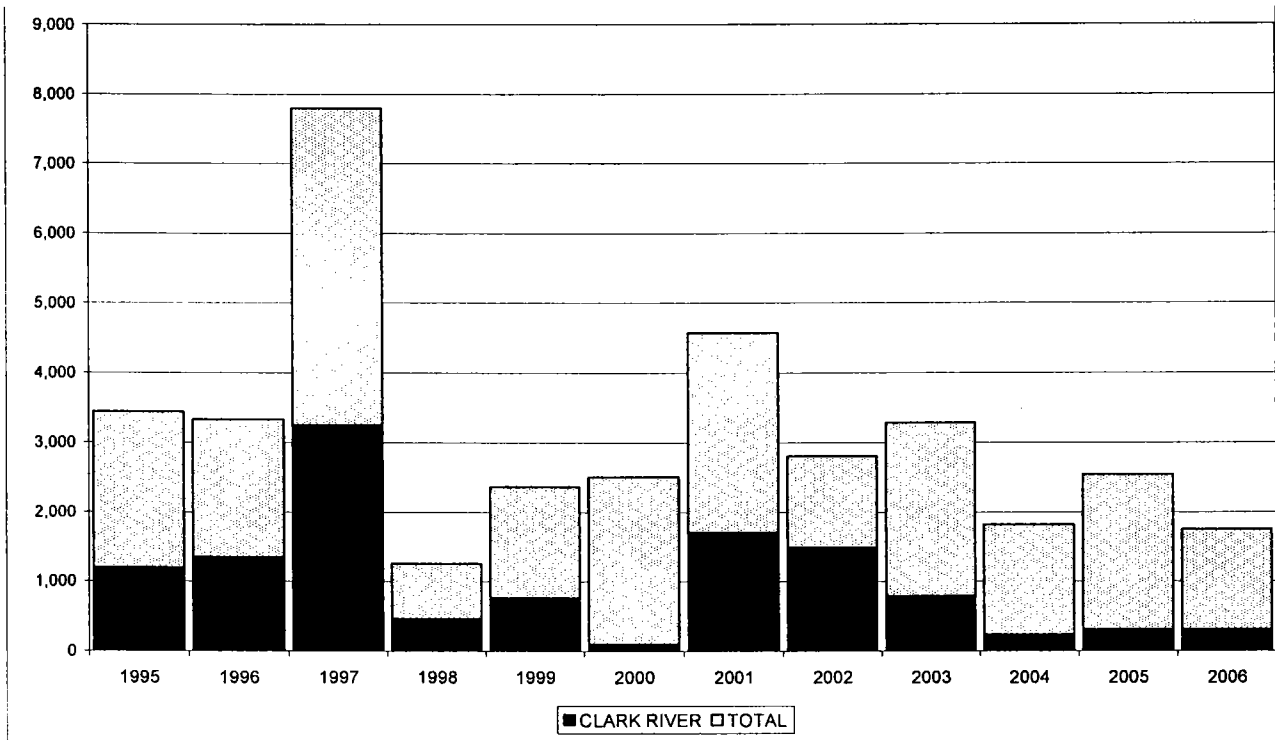


Figure 3.—Estimated subsistence sockeye harvest for Chignik Lake subregion.

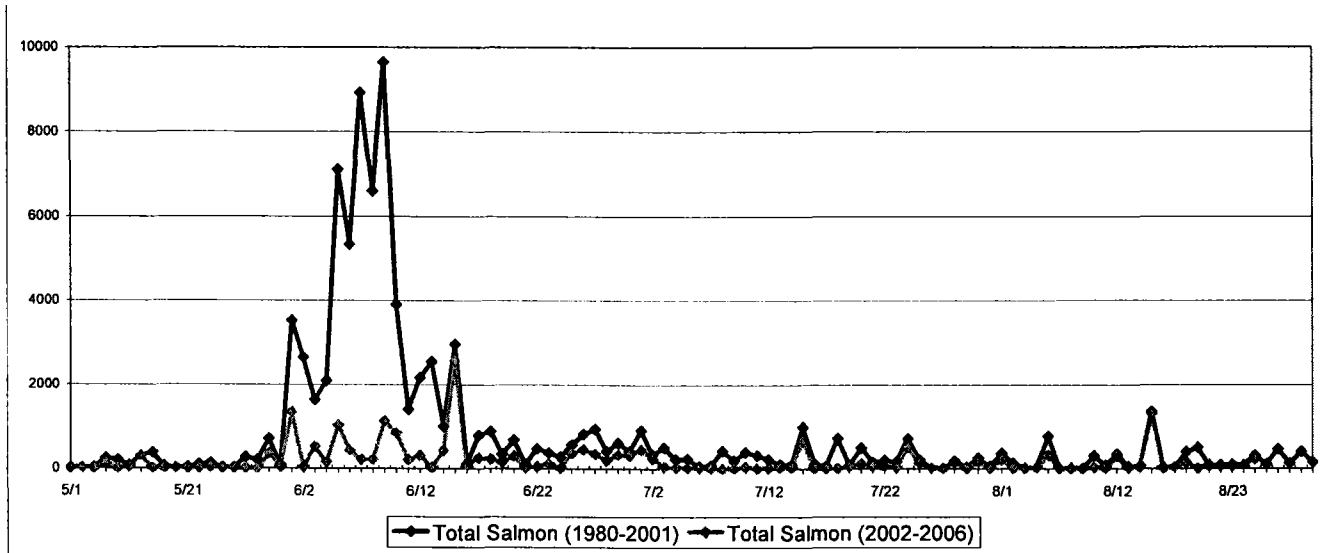


Figure 4.—Total sockeye salmon subsistence harvest by date between May 1 and August 31, Chignik bay, lagoon, and lake, (1980-2001) (2002-2006).

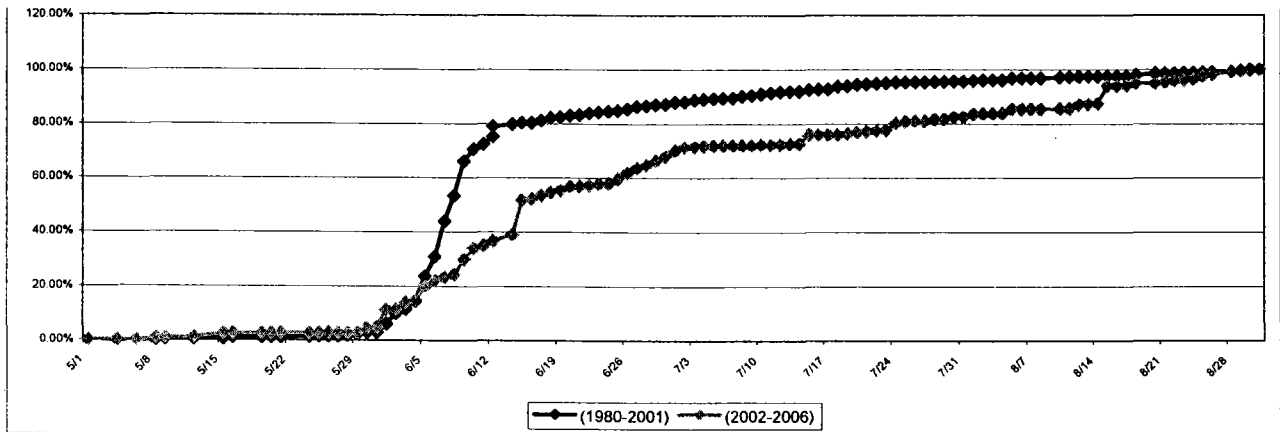


Figure 5.—Cumulative percentage of sockeye salmon subsistence harvest by date between May 1 and August 31 of (1980-2001), (2002-2006), Chignik bay, lagoon, and lake subregions.