

Submitted by the Alaska Department of Fish and Game  
 January 8, 2014

***Brief summary of king salmon CWT studies in waters surrounding Kodiak Island and Kodiak Management Area king salmon harvest information.***

A coded-wire tag (CWT) recovery study in the Kodiak marine waters in 1994 (Swanton 1997) and 1997 to 1999 (Clark and Nelson 2001) showed stocks from British Columbia (predominantly West Coast Vancouver Island), Alaska (Cook Inlet, SE Alaska, Kodiak Island), Oregon, and Washington in adipose fin-clipped king salmon sampled from commercial salmon fishery harvests. All reporting groups, with the exception of Kodiak, had observed numbers of tags less than those expected for a 1% exploitation rate.

*1997 to 1999 Kodiak king salmon CWT recovery summary (Clark and Nelson 2001)*

Year	British Columbia	WA/OR/CA	Cook Inlet	SE Alaska	Kodiak
1997	72%	15%	8%	3%	2%
1998	49%	20%	18%	4%	9%
1999	31%	37%	10%	12%	10%

These findings are quite similar to observer-examined CWT king salmon recovered from trawl and research vessels in the offshore waters surrounding Kodiak Island and the South Alaska Peninsula from 1981 to 2011 where recoveries showed presence of British Columbia, SE Alaska, Cook Inlet, Washington, and Oregon (Celewycz et al. 2010; Celewycz and Moss 2011). Germane to the understanding of CWT recoveries is the number of king salmon released from hatcheries in Eastern North Pacific Ocean (Heard et al. 2007).

*Average juvenile king salmon hatchery releases, 1993 to 2001 (in millions of fish).*

Year	British Columbia	WA/OR/CA	Alaska	Idaho
93-01	54	209	8	7

Genetic stock identification of the king salmon bycatch in the 2011 Gulf of Alaska pollock trawl fishery (Guthrie et al. 2013) demonstrated similar results to the aforementioned CWT data but are not specific to waters surrounding Kodiak Island. Only broad-scale reporting group estimates were presented.

*2011 King salmon bycatch genetic stock of origin in the Gulf of Alaska pollock trawl fishery (Guthrie et al. 2013; n=240)*

Year	British Columbia	WA/OR/CA	Cook Inlet/Kodiak/Chignik	SE Alaska/Copper
2011	40%	26%	15%	19%

*Kodiak Management Area king salmon commercial harvest and average weights by year, 2004 to 2013.*

year	permits	landings	Number	Weight (lbs)	Avg Weight (lbs)
2004	305	15,002	28,899	328,129	11.35
2005	301	13,694	14,411	168,336	11.68
2006	285	11,022	20,283	209,359	10.32
2007	301	10,363	17,222	163,518	9.49
2008	277	7,971	17,176	138,103	8.04
2009	291	9,825	7,219	66,207	9.17
2010	316	6,221	14,550	116,085	7.98
2011	340	8,202	18,454	173,049	9.38
2012	336	10,055	14,785	108,955	7.37
2013	325	10,316	34,028	255,031	7.49
Total		102,671	187,027	1,726,772	9.23
Average		10,267	18,703	172,677	9.23

*Kodiak Management Area king salmon commercial harvest by gear type and year, 2004 to 2013.*

Year	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Purse Seine	24,549	11,122	16,129	15,600	15,248	6,904	13,364	16,085	13,659	29,976
Beach Seine	-	-	-	-	-	-	6	32	-	15
Set Gillnet	4,350	3,289	4,154	1,622	1,928	315	1,180	2,337	1,126	4,037
Total	28,899	14,411	20,283	17,222	17,176	7,219	14,550	18,454	14,785	34,028