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Petition to the Alaska Board of Fisheries

I am petitioning the Alaska Board of Fisheries to take immediate action via Board Generated Proposal at the 2014 Upper Cook Inlet Board meeting to establish provisions in the Kenai River Early Run King Salmon Management Plan: to direct the Department to close sport fishing for king salmon in the entire Kenai River with bait or from a boat with anything other than a single hook artificial fly from the current regulatory end of the Early Run on June 30, or earlier if closed by emergency order, until September 10 any time the lower end of the escapement goal (5,300) is not achieved. These emergency actions are necessary to protect the Early-Run King stocks because the Department has failed to provide scientifically defensible escapement goals which protect the early-run stocks which is evident now that the in-river genetics reports by (McKinley, 2013) and (Reimer, 2013) have finally come out. While there is not sufficient time to adequately review these reports they demonstrate that the July 1 demarcation between early and late runs is inappropriate and scientifically invalid and the escapement goals need to be redone immediately. These reports also show that the Early-run has been mismanaged in-river for years and that escapement is often well below the minimum escapement necessary to sustain this run, especially in the tributaries. They also show that the Laterun is several thousand fish stronger than what is being reported. While these two reports detail the percentages of tributary (Early-Run) and Mainstern (Late-run) they failed to apply these percentages by day to the sonar counts or daily harvest so the actual escapements by stock are unknown. The department continues to withhold essential data and delay reports to keep these issues from being fully vetted before the board. In their submissions to date there is no mention of the USFW work in the Killey and Funny rivers which document that the DIDSON counter is not accurate and that the early- run is over 80 percent males. It now appears that nearly all of the "facts" on Kenai kings that the department has given us over the years appear to be flawed at the least and generally totally wrong. Certainly as KRSA has stated the lower end of the Early-run escapement goal should take precedence over exceeding the Late-run escapement goal.

Since 1990 we were sold on the veracity of these counts because of Mark/Recapture experiments and indices which supported these sonar estimates. In 2013 we were given the Run Reconstruction report which was less than forthright when it implied that these target strength escapement estimates were "not readily convertible" when in fact they were thrown away and a new series of DIDSON estimates were created with a yet unverified Bayesian Statistical (BS) model which employed the same indices and M/R estimates. From the Run Reconstruction report we now see that ADF&G knew the counters didn't work as early as 1994 and 1998 but failed to inform anyone or make any substantive changes. We now see in the McKinley report that the age composition provided by the netting program is not unbiased as reported last year but in fact does not work at all. In the very near future the veracity of the DIDSON counter will also likely come to light also.

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Utilizing the BS model the department has reduced the escapement estimate (Table 1) from the old Target Strength counter to the DIDSON counter by an average of 3,100 less chinook, ranging from 14,000 less to 8,400 more Chinook or 84 percent overall (Table 2) but there are huge swings in run strength from + 518 percent (DIDSON count is lower) to -40 percent (DIDSON is higher) (Table 2). When compared to the M/R numbers the Target Strength counter performed better (PMR.80) when compared to DIDSON (PMR .54) and the TS PMR is distributed around the M/R estimate whereas the DIDSON is always biased below the M/R estimate which makes the decision to dump the Target Strength counter seem fairly ill-advised. This is especially true since the Target Strength count is not adjusted by the M/R estimates with the additional 28 or 55 percent as the DIDSON counter. Using these DIDSON estimates the exploitation rate increases to a range of 6 to 82 percent without considering the number of fish harvested after July 1 which are incorrectly subtracted from the late-run escapement. When these fish are correctly allocated to the early-run the exploitation rate will exceed 90 percent. From the Genetics data released during the "task force" process we see that 50 percent of the middle river harvest from July 1-15 is actually early run fish of tributary origin in addition to the un-known number of early arriving main-stem fish which are also taken during July. In the McKinley report dated December 2013 on page 14 the following quote "Both of these results point to the same conclusion: so-called Early-run mainstem spawners are simply the beginning of the late-run mainstem spawning stock.", however this report stops short of actually applying the genetic stock compositions to the catch and escapements, When this is done by stock the escapement of early-run fish will be much lower and the escapement of late-run fish will be higher.

From the 1992 Bendock catch and release report the peak of entry into the tributaries of early run fish is July 25. That is to the peak, not the end which is when ADF&G normally reopens the fishery when they have failed to achieve the escapement goal allowing the tail of the early-run to be harvested, generally with bait which these fish have not been exposed to previously in many cases. The "early-run mainstem fish" which we now see are really late-run fish don't spawn until September. These fish which may comprise up to 40 percent of the early run escapement receive no protection from the fishery in-river. This Bendock report also documents that 15 percent of the early-run escapement in 1989-1991 originated from the Main-Stem spawning population. In the current Genetics data from 2003 to 2013 the percent of the escapement that is now of main-stem origin returning prior to July 1 is now ranging from 27 to 40 percent, nearly double in 20 years. This increase in the main-stem component is troubling leading to the conclusion that the tributary population is in serious decline. Likely due to too much exploitation and the near elimination of smaller tributary stocks like Slikok Cr., Beaver Cr., Quartz Cr., and Russian River all of which is hidden by the early arriving main-stem component, which are likely harvested during the late-run fishery at an exceptionally high rate. If ADF&G had completed their analysis in the Reimer and McKinley reports we would have true numbers but since these reports just came out in the last few days there is not enough time for us to do the analysis. However ADF&G has the data already in tables and could do it for the Board relatively quickly.

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In 2012 and 2013 the department counters failed to count nearly 3 out of 4 fish at a minimum. The exact figures are difficult to estimate due to the department's reluctance to release any of this data in a timely fashion. From the Fish and Wildlife Service weirs we see that they counted more fish at 2 weirs than the DIDSON counted. If you add in the fish not accounted for below the weirs, mainstem, or other tributary stocks the number of fish not counted is 300 or more percent off. The problem is that these fish are over 80 percent males and most of the fish are 1.1 (age 3) or 1.2 (age 4) fish. This shift from larger fish with equal numbers of males and females to 80% small males is certainly cause for alarm and something which needs to be addressed immediately. This is an emergency situation which the board needs to correct immediately. Had the department released these reports prior to the proposal deadline this crisis could have been handled with a proposal instead of as a petition. In either case this stock is in serious decline!

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Table 1. Kenai River Early-run king exploitation rate by counter type.

	Total	Target Strength			DIDSON				
Year	Run	Total	Total	Exploit	_	Total	Total	Total	Exploi
1986	27,080	Harvest	Escapement	Rate	_Year	Run	Harvest	Escapement	Rate
1987	27,000 25,643	8,398	18,682	31%	1986	20,068	8,398	11,670	429
1988	20,880	13,863	11,780	54%	1987	21,637	13,863	7,774	447 649
1989	17,992	15,549	5,331	74%	1988	19,844	15,549	4,295	
1990	10,768	8,543	9 ,449	47%	1989	12,277	8,543	3,734	789 709
1991	·-	2,185	8,583	20%	1990	9,822	2,185	7,637	
	10,939	2,097	8,842	19%	1991	10,597	2,097	7,637 8, 5 00	22%
1992	10,087	2,477	7,610	25%	1992	11,921	2,477		20%
1993	19,669	9,628	10,041	49%	1993	12,394	9,628	9,444	21%
1994	18,403	8,456	9,947	46%	1994	13,147	8,456	2,766	78%
1995	21,857	10,547	11,310	48%	1995	12,906	10,547	4,691	64%
1996	23,505	6,910	16,595	29%	1996	9,597	6,910	2,359	82%
1997	14,963	6,778	8,185	45%	1997	11,149	6,778	2,687	72%
1998	13,103	1,424	11,679	11%	1998	11,904	1,424	4,371	61%
1999	25,666	8,390	17,276	33%	1999	13,493	8,390	10,480	12%
2000	12,479	2,003	10,476	16%	2000	10,767	2,003	5,103	62%
2001	16,676	2,603	14,073	16%	2001	14,003		8,764	19%
2002	7,162	977	6,185	14%	2002	10,843	2,603	11,400	19%
2003	13,325	3,228	10,097	24%	2002	20,188	977	9,866	9%
2004	15,497	3,643	11,854	24%		•	3,228	16,960	16%
2005	20,450	4,063	16,387	20%	2004	23,493	3,643	19,850	16%
006	23,326	4,898	18,428	21%	2005	20,713	4,063	16,650	20%
007	16,217	3,71 3	12,504	23%	2006	18,168	4,898	13,270	27%
800	15,3 5 5	3,623	11,732	24%	2007	13,569	3,713	9,856	27%
009	11,334	1,563	9,771	14%	2008	10,193	3,623	6,570	36%
010	13,251	1,427	9,771 11,824	11%	2009	7,726	1,563	6,163	20%
011		1,429	11,024	1 1 70	2010	7,820	1,427	6,393	18%
012		326			2011	9,877	1,429	8,448	14%
013		020			2012	5,370	326	5,044	6%
	-				2013			2,048	_

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Table 2. Kenai River Early Run King Escapement Estimates from Run Reconstruction

Year Target Str. DIDSON Escapement in Change M/R DIDSON 1986 18,682 11,670 7,012 60% 27,080 0.43 0.69 1987 11,780 7,774 4,006 52% 25,643 0.30 0.46 1988 5,331 4,295 1,036 2,046 2,07 <td< th=""><th></th><th>Total _</th><th>Total</th><th>Change</th><th>Percent</th><th>ADF&G</th><th></th><th></th></td<>		Total _	Total	Change	Percent	ADF&G		
1986 18,682 11,670 7,012 60% 27,080 0.43 0.68	M	-	•	ìn	Change		DIDSON	TS
1986	Year	Target Str.	DIDSON	Escapement	Escapement			PMR
1988	1986	18,682	11,670	7,012	60%			0.69
1989 9,449 3,734 5,715 153% 23,253 0.16 0.41 1990 8,583 7,637 946 12% 1991 8,842 8,500 342 4% 1992 7,610 9,444 -1,834 -19% 1993 10,041 2,766 7,275 263% 1994 9,947 4,691 5,256 112% 1995 11,310 2,359 8,951 379% 1996 16,595 2,687 13,908 518% 1997 8,185 4,371 3,814 87% 1998 11,679 10,480 1,199 11% 1999 17,276 5,103 12,173 239% 2000 10,476 8,764 1,712 20% 2001 14,073 11,400 2,673 23% 2002 6,185 9,866 -3,681 -37% 2003 10,097 16,960 -6,863 40% 2004 11,854 19,850 -7,996 40% 2005 15,387 16,650 -263 -2% 2006 18,428 13,270 5,158 39% 2007 12,504 9,856 2,648 27% 13,010 0.76 0.96 2008 11,732 6,570 5,162 79% 8,636 0.76 1.36 2009 9,771 6,163 3,608 59% 10,580 0.58 0.92 2010 11,824 6,393 5,431 85% 8,347 0.77 1.42 2011 8,448 9,267 0.91	1987	11,780	7,774	4,006	52%	25,643	0.30	D. 4 6
1990	1988	5,331	4,295	1,036	24%	25,074	0.17	0.21
1990	1989	9,449	3,734	5,715	153%	23 253	0.46	0.44
1991	1990	8,583	7,637	•		20,200	0.16	U. 4 1
1992	1991	8,842						
1993 10,041 2,766 7,275 263% 1994 9,947 4,691 5,256 112% 1995 11,310 2,359 8,951 379% 1996 16,595 2,687 13,908 518% 1997 8,185 4,371 3,814 87% 1998 11,679 10,480 1,199 11% 1999 17,276 5,103 12,173 239% 2000 10,476 8,764 1,712 20% 2001 14,073 11,400 2,673 23% 2002 6,185 9,866 -3,681 -37% 2003 10,097 16,960 -6,863 -40% 2004 11,854 19,850 -7,996 -40% 2005 16,387 16,650 -263 -2% 2006 18,428 13,270 5,158 39% 2007 12,504 9,856 2,648 27% 13,010 0,76 0,96 2008 11,732 6,570 5,162 79% 8,636 0,76 1,36 2009 9,771 6,163 3,608 59% 10,580 0,58 0,92 2010 11,824 6,393 5,431 85% 8,347 0,77 1,42 2011 8,448 9,267 0,91	1992	7,610						
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1995 11,310 2,359 8,951 379% 1996 16,595 2,687 13,908 518% 1997 8,185 4,371 3,814 87% 1998 11,679 10,480 1,199 11% 1999 17,276 5,103 12,173 239% 2000 10,476 8,764 1,712 20% 2001 14,073 11,400 2,673 23% 2002 6,185 9,866 -3,681 -37% 2003 10,097 16,960 -6,863 -40% 2004 11,854 19,850 -7,996 40% 2005 16,387 16,650 -263 -2% 2006 18,428 13,270 5,158 39% 2007 12,504 9,856 2,648 27% 13,010 0,76 0,96 2008 11,732 6,570 5,162 79% 8,636 0,76 1,36 2009 9,771 6,163 3,608 59% 10,580 0,58 0,92 2010 11,824 6,393 5,431 85% 8,347 0,77 1,42 2011 8,448 9,267 0,91 2012 5,044 6,513 0,77	1994	9,947						
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1998		8,185	4,371	•				
1999 17,276 5,103 12,173 239% 2000 10,476 8,764 1,712 20% 2001 14,073 11,400 2,673 23% 2002 6,185 9,866 -3,681 -37% 2003 10,097 16,960 -6,863 -40% 2004 11,854 19,850 -7,996 -40% 2005 16,387 16,650 -263 -2% 2006 18,428 13,270 5,158 39% 2007 12,504 9,856 2,648 27% 13,010 0.76 0.96 2008 11,732 6,570 5,162 79% 8,636 0.76 1.36 2009 9,771 6,163 3,608 59% 10,580 0.58 0.92 2010 11,824 6,393 5,431 85% 8,347 0.77 1.42 2011 8,448 9,267 0.91 2012 5,044 2,048		11,679	10,480					
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2002 6,185 9,866 -3,681 -37% 2003 10,097 16,960 -6,863 -40% 2004 11,854 19,850 -7,996 -40% 2005 16,387 16,650 -263 -2% 2006 18,428 13,270 5,158 39% 2007 12,504 9,856 2,648 27% 13,010 0.76 0.96 2008 11,732 6,570 5,162 79% 8,636 0.76 1.36 2009 9,771 6,163 3,608 59% 10,580 0.58 0.92 2010 11,824 6,393 5,431 85% 8,347 0.77 1.42 2011 8,448 9,267 0.91 2012 5,044 6,513 0.77 2013 2,048		14,073	11,400	2,673				
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2005 16,387 16,650 -263 -2% 2006 18,428 13,270 5,158 39% 2007 12,504 9,856 2,648 27% 13,010 0.76 0.96 2008 11,732 6,570 5,162 79% 8,636 0.76 1.36 2009 9,771 6,163 3,608 59% 10,580 0.58 0.92 2010 11,824 6,393 5,431 85% 8,347 0.77 1.42 2011 8,448 9,267 0.91 2012 5,044 6,513 0.77 2013 2,048 2,048 2,048	2004	11,854	•	•				
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2008 11,732 6,570 5,162 79% 8,636 0.76 1.36 2009 9,771 6,163 3,608 59% 10,580 0.58 0.92 2010 11,824 6,393 5,431 85% 8,347 0.77 1.42 2011 8,448 9,267 0.91 2012 5,044 6,513 0.77 2013 2,048	2006	18,428	13,270					
2009 9,771 6,163 3,608 59% 10,580 0.58 0.92 2010 11,824 6,393 5,431 85% 8,347 0.77 1.42 2011 8,448 9,267 0.91 2012 5,044 6,513 0.77 2013 2,048	2007	12,504	9,856	2,648	27%	13,010	0.76	0.96
2010 11,824 6,393 5,431 85% 8,347 0.77 1.42 2011 8,448 9,267 0.91 2012 5,044 6,513 0.77 2013 2,048	2008	11,732	6,570	5,162	79%	8,636	0.76	1.36
2010 11,824 6,393 5,431 85% 8,347 0.77 1.42 2011 8,448 9,267 0.91 2012 5,044 6,513 0.77 2013 2,048	2009	9,771	6,163	3,608	59%	10,580	0.58	0.92
2012 5,044 6,513 0.77 2013 2,048	20 10	11,824	6,393	5,431	85%	8,347	0.77	1.42
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2013 2,048 0.77	2012		5,044			6.513	0 77	
erage 11,546 8,450 3,096 84% 15,740 0.54 0.80	2013					0,013	0.77	
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