

Kuskokwim River Salmon Management Working Group

1 (800) 315-6338 (MEET) Code: 58756# (KUSKO)

ADF&G Bethel toll free: 1 (855) 933-2433

Meeting Agenda

Date: **September 27, 2012**

Time: **10:00 am**

Place: **Bethel**

Time Called to Order

Chair

Time Adjourned

ROLL CALL TO ESTABLISH QUORUM: **QUORUM MET? Yes / No**

Upriver Elder:

Processor:

Downriver Elder:

Member at Large:

Commercial Fisher:

Sport Fisher:

Lower River Subsistence:

Western Interior RAC:

Middle River Subsistence:

Y-K Delta RAC:

Upper River Subsistence:

ADF&G:

Headwaters Subsistence:

INTRODUCTIONS:

INVOCATION:

APPROVAL OF AGENDA:

PEOPLE TO BE HEARD:

NEW BUSINESS:

1. Kuskokwim River Chinook salmon Escapement Goal recommendations 2012 (*Kevin Schaberg*)
2. ADF&G Chinook Salmon Symposium in Anchorage on October 22-23
3. Kuskokwim Post Season Subsistence Salmon Survey

OLD BUSINESS:

1. Kuskokwim Area Board of Fish Proposals
2. Action items from previous meetings:
 - a. Beverly Hoffman's letter of recruitment for the Upriver Elder seat
 - b. Update on public outreach efforts
 - c. Working Group Chairs letter to John Bryson, US Secretary of Commerce in support of adding a tribal member to the NPFMC (*Bev Hoffman*)
 - d. Review of KRSMWG Bylaws *Tabled until 2013*
 - e. Update KRSMWG Seats (roll-call list, possible alternates) *Tabled until 2013*
3. Discussion of the Iyana Gusty Award (raised by Bob Aloysius during the August 22 meeting).

-Continued-

CONTINUING BUSINESS:

1. Subsistence Reports:
 - a. Lower River:
 - b. ONC Inseason Subsistence:
 - c. Middle River:
 - d. KNA Inseason Subsistence:
 - e. Upper River:
 - f. Headwaters:
2. Overview of Kuskokwim River salmon run assessment projects:
 - a. Bethel Test Fish
 - b. Weirs/Mark-Recapture/Aerial Surveys/Other:
3. Commercial Catch Report:
4. Processor Report:
5. Sport Fish Report:
6. Weather Forecast:
7. Recommendation:
8. Motion for Discussion and Action:

COMMENTS FROM WORKING GROUP MEMBERS:

NEXT MEETING DATE: _____ **Time:** _____ **Place:** _____

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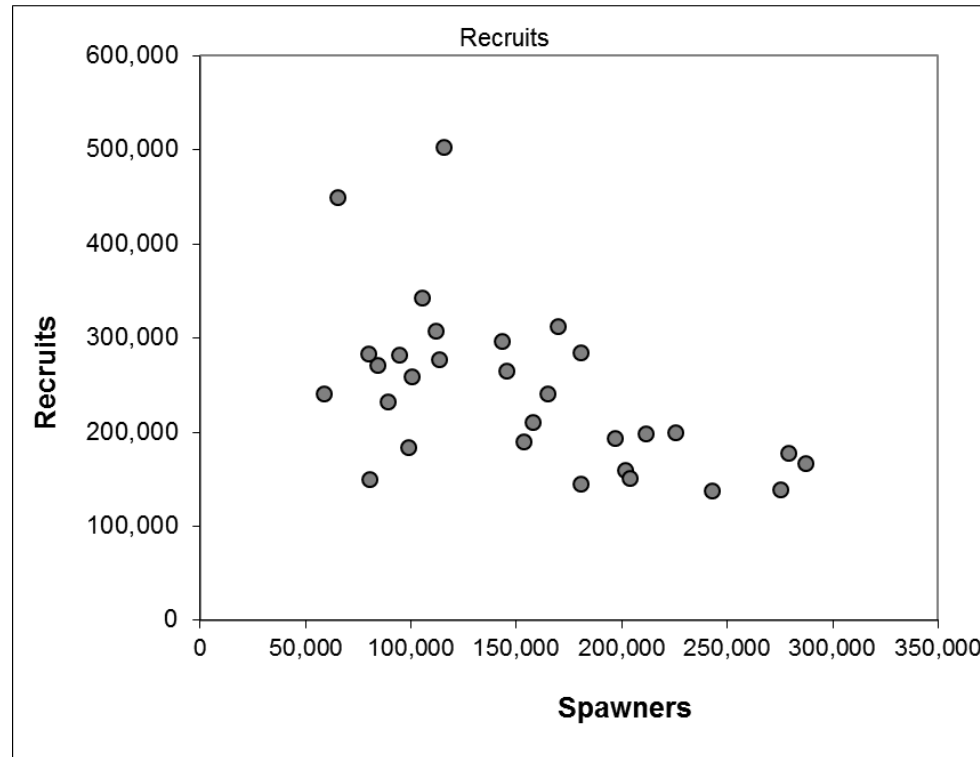
Information Packet

September 27, 2012

KUSKOKWIM RIVER Chinook salmon drainage-wide and tributary Escapement Goals:

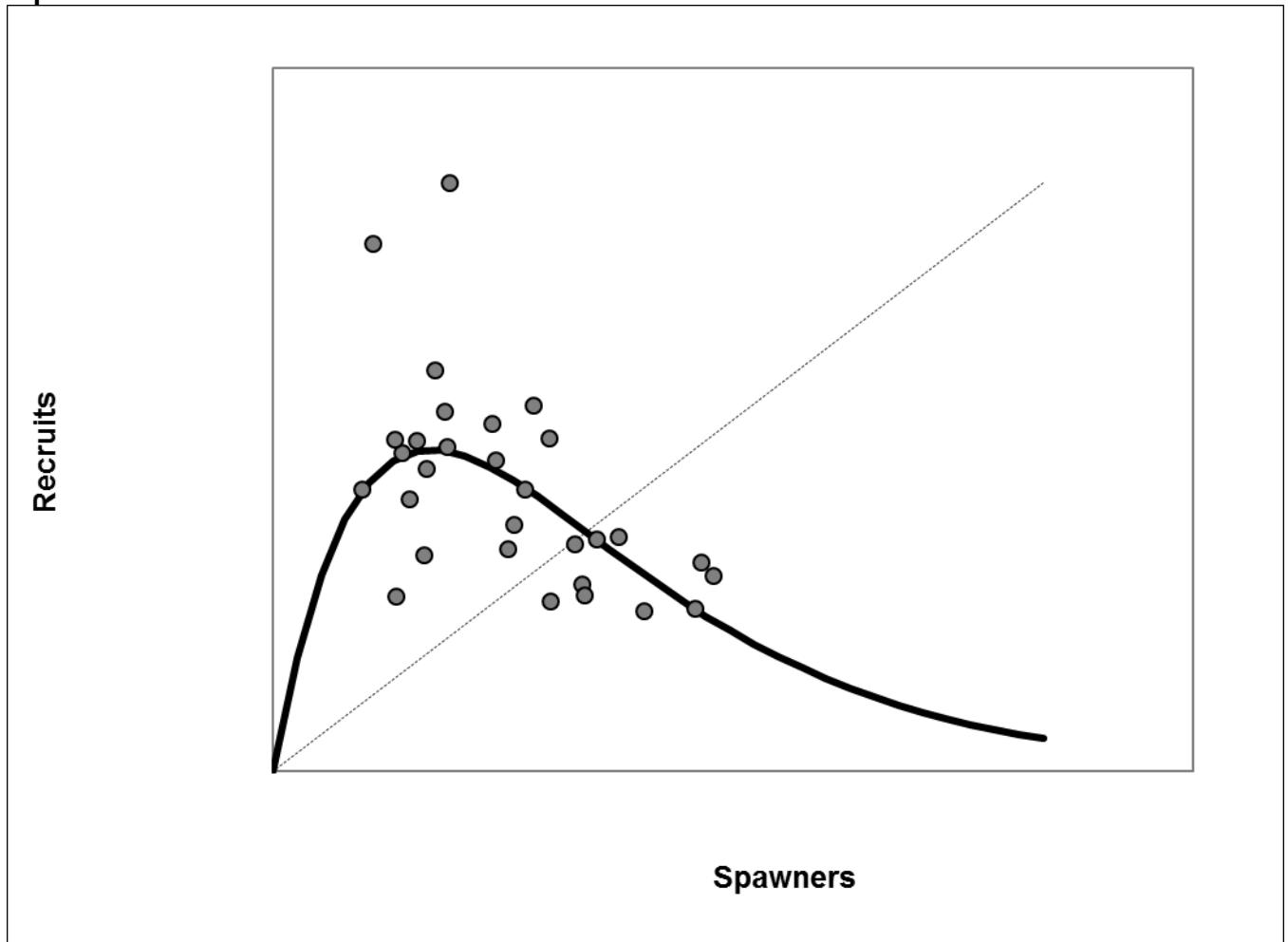
Spawner Recruit Method of Assessing Production

Brood year	Spawners	Recruits
1976	143,420	296,724
1977	201,852	159,889
1978	180,853	144,790
1979	157,668	210,564
1980	203,605	150,587
1981	279,392	178,270
1982	80,353	149,444
1983	84,188	271,408
1984	99,062	184,122
1985	94,365	282,231
1986	58,556	241,062
1987	89,222	231,998
1988	80,055	283,295
1989	115,704	502,456
1990	100,614	258,635
1991	105,589	342,483
1992	153,573	189,842
1993	169,816	312,128
1994	242,616	137,304
1995	225,595	199,669
1996	197,092	193,813
1997	211,247	198,527
1998	113,627	277,124
1999	112,082	307,272
2000	65,180	450,011
2001	145,232	265,278
2002	164,635	240,378
2003	180,687	284,036
2004	287,178	166,576
2005	275,598	138,634



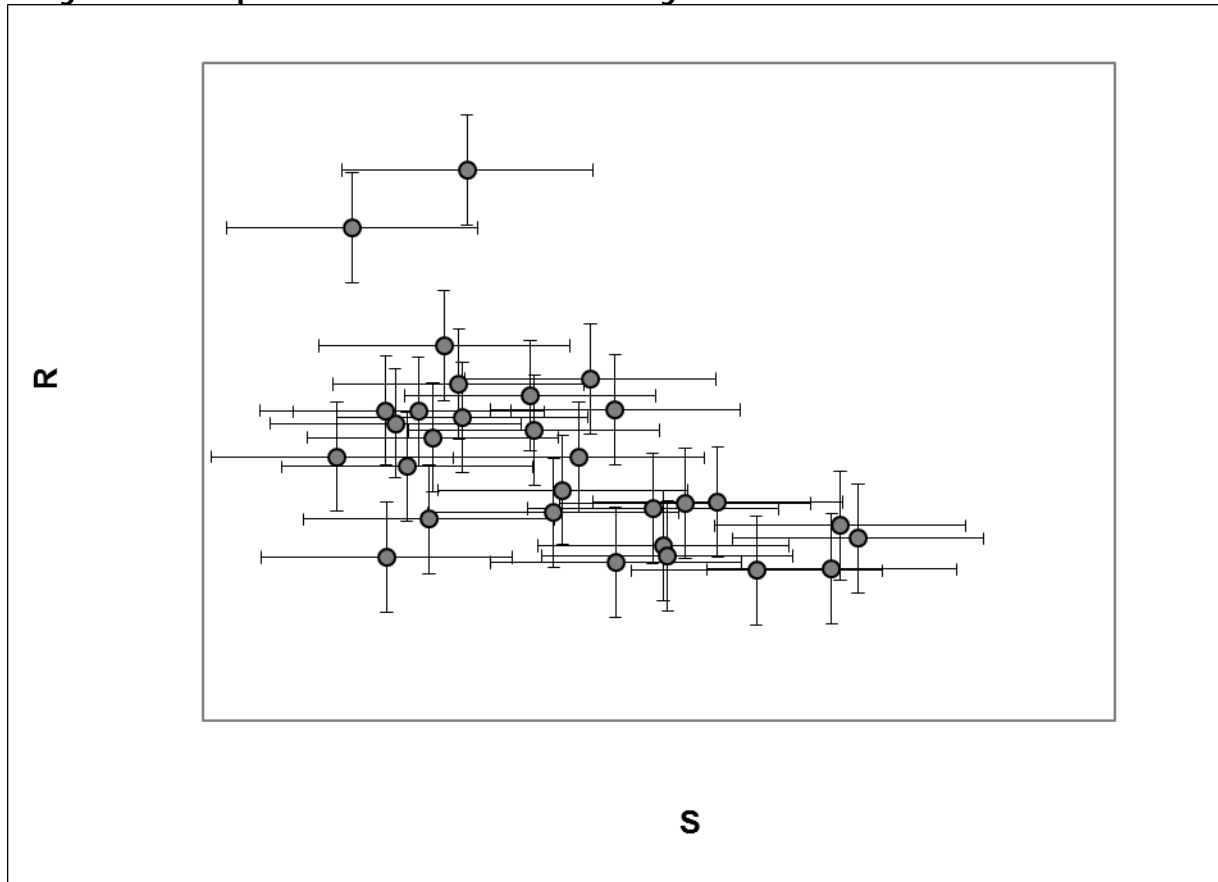
** As a refresher, we plot the Spawner and Recruit data. The spawners are the escapement estimated by the run reconstruction model, and the recruit data come from the brood table which applies the age composition to each annual run.

Ricker model line describes data from estimates of Spawners and Recruits



** Think of the Ricker line as the estimated average recruitment given any level of spawners from the spawner - recruit data.

Bayesian Spawner Recruit Analysis

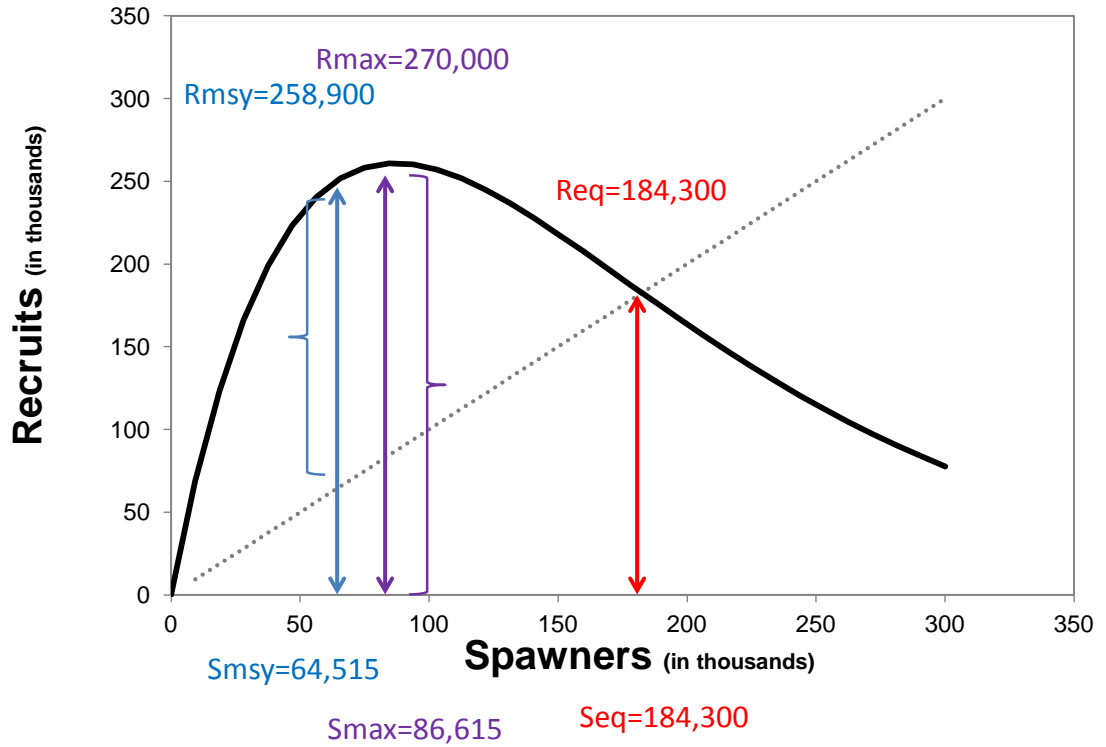


Fleischman, S. J., and B. M. Borba. 2009. Escapement estimation, spawner-recruit analysis, and escapement goal recommendation for fall chum salmon in the Yukon River drainage. Alaska Department of Fish and Game, Fishery Manuscript Series No. 09-08, Anchorage. <http://www.sf.adfg.state.ak.us/FedAidpdfs/FMS09-08.pdf>.

Fleischman, S. J. and D. Evenson. 2010. Run reconstruction, spawner-recruit analysis, and escapement goal recommendation for summer chum salmon in the Andreafsky River. Alaska Department of Fish and Game, Fishery Manuscript Series No. 10-04, Anchorage. <http://www.sf.adfg.state.ak.us/FedAidpdfs/fms10-04.pdf>.

** The Bayesian approach incorporates uncertainty with our ability to estimate spawners (horizontal CI's) and describe recruitment with brood tables (vertical CI's), and then runs the Ricker line through all options. This is thought to be a better reflection of the possible outcomes of our data, and produces the best overall estimate of production from those possibilities.

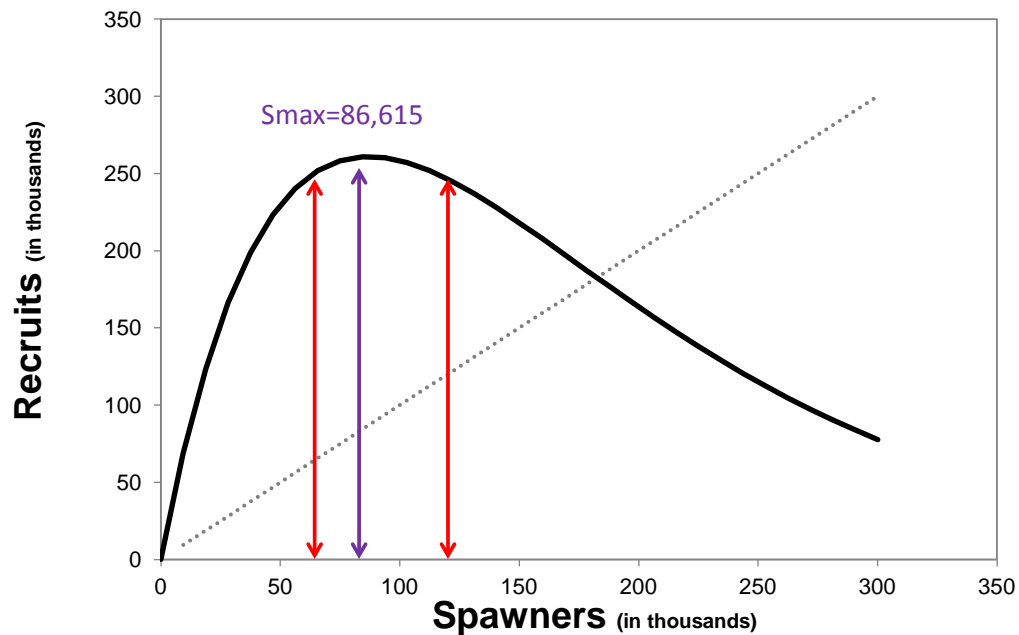
Inflection points from Bayesian Spawner Recruit Analysis



Considerations in EG Recommendation

- Yield adequate for subsistence harvest
- Maintaining escapements within previously observed ranges.
 - i.e. lower bound should be higher than the lowest known sustainable escapement
- Ability to Manage to the EG
 - Precision of Inseason assessment and management
 - Fishing power to achieve EG when abundances are high

Kuskokwim River Chinook salmon SEG recommendation from Bayesian Spawner Recruit Analysis



Recommended SEG
65,000 – 120,000

Recommended SEG 65,000 – 120,000

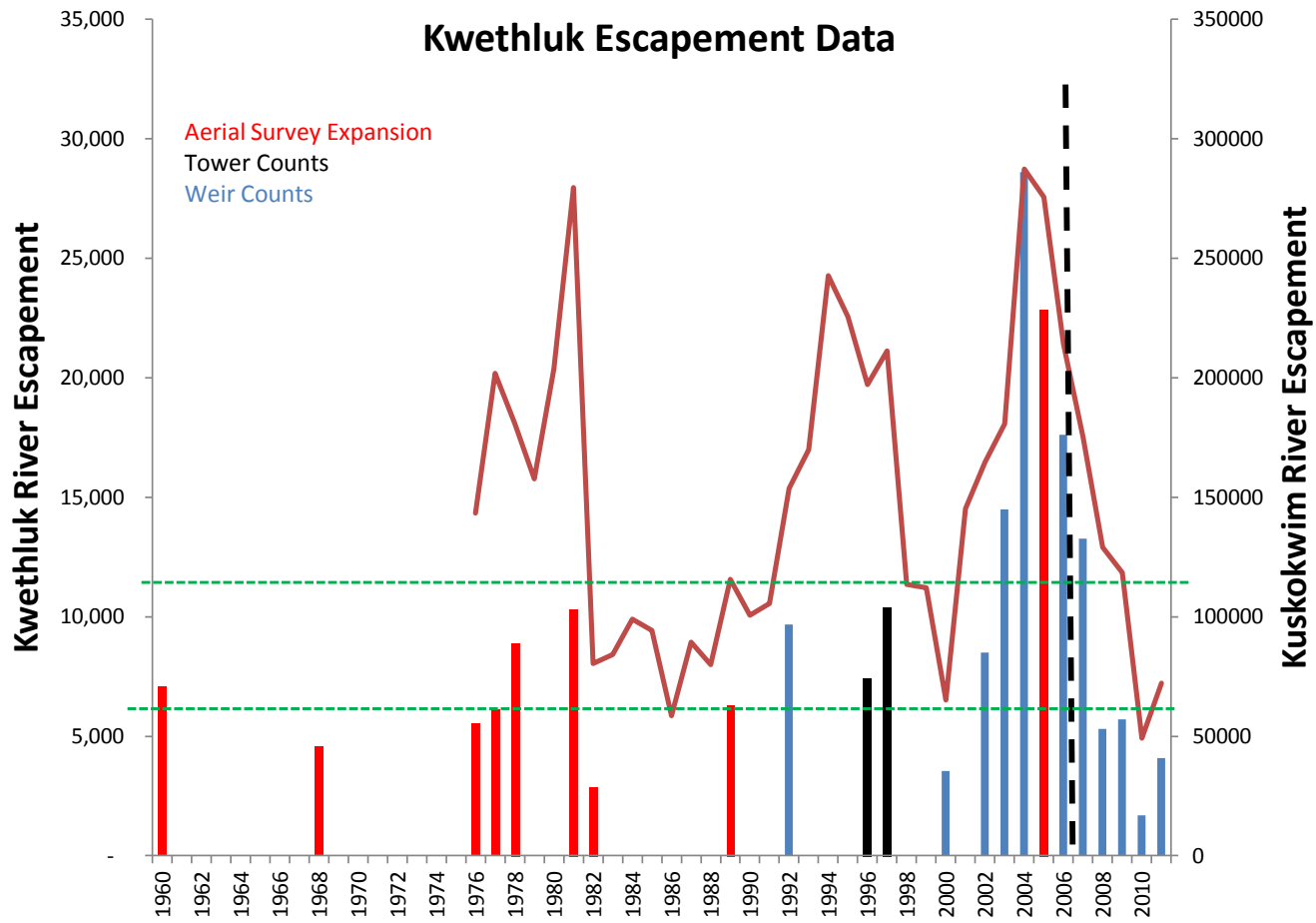
** Lower bound considerations- 2 observations of escapement at or below this level with known recruitment ($S/R > 4$)

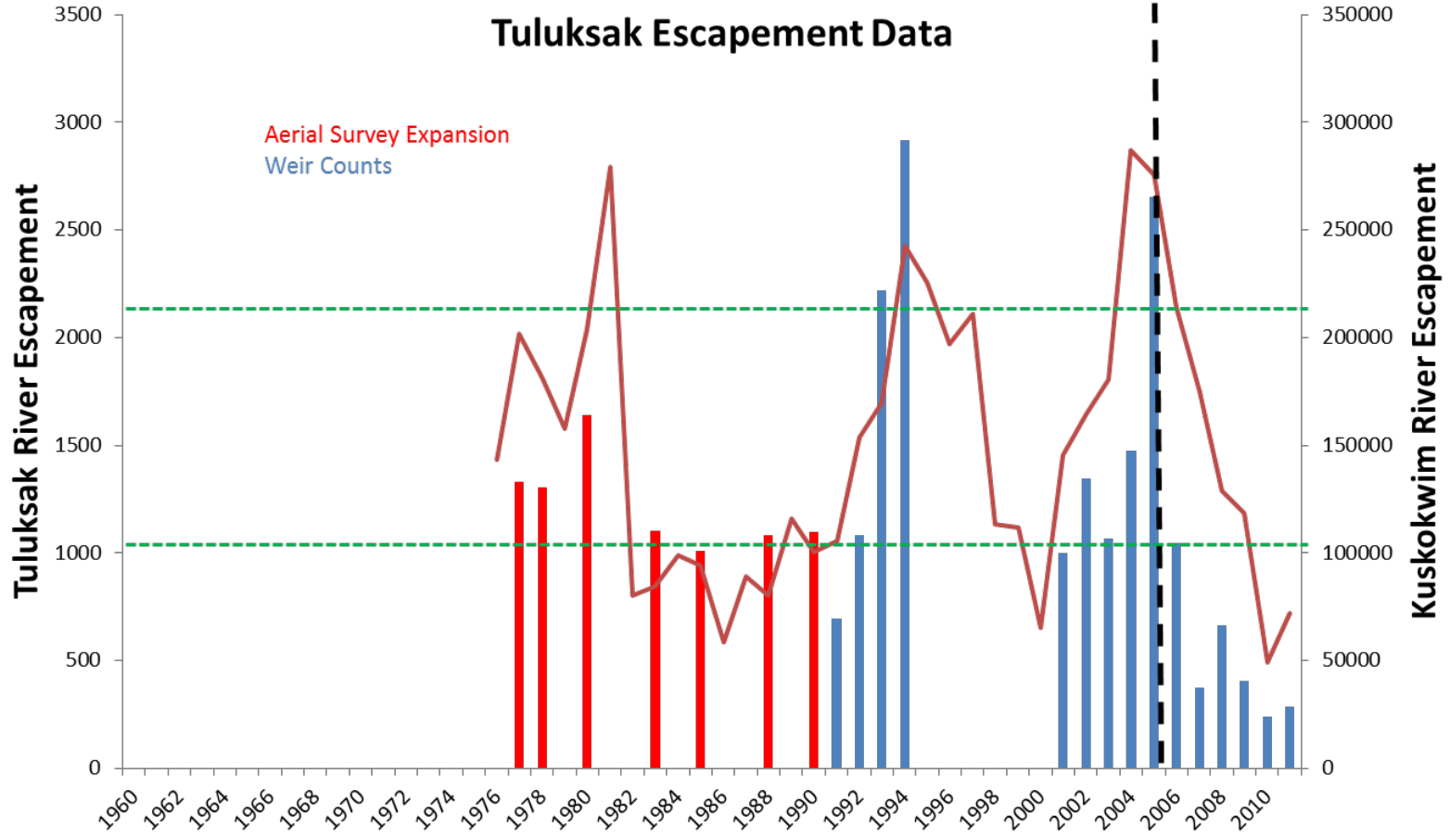
Upper bound considerations- Harvest power, beyond average subsistence harvest, through commercial and sport fisheries does not currently have the ability to greatly reduce the number of fish in the escapement because of processor capabilities, and market conditions in the Kuskokwim Area. By increasing the upper bound, we will reduce the likelihood that we do not achieve the escapement goal given the realities of the fisheries in the area.

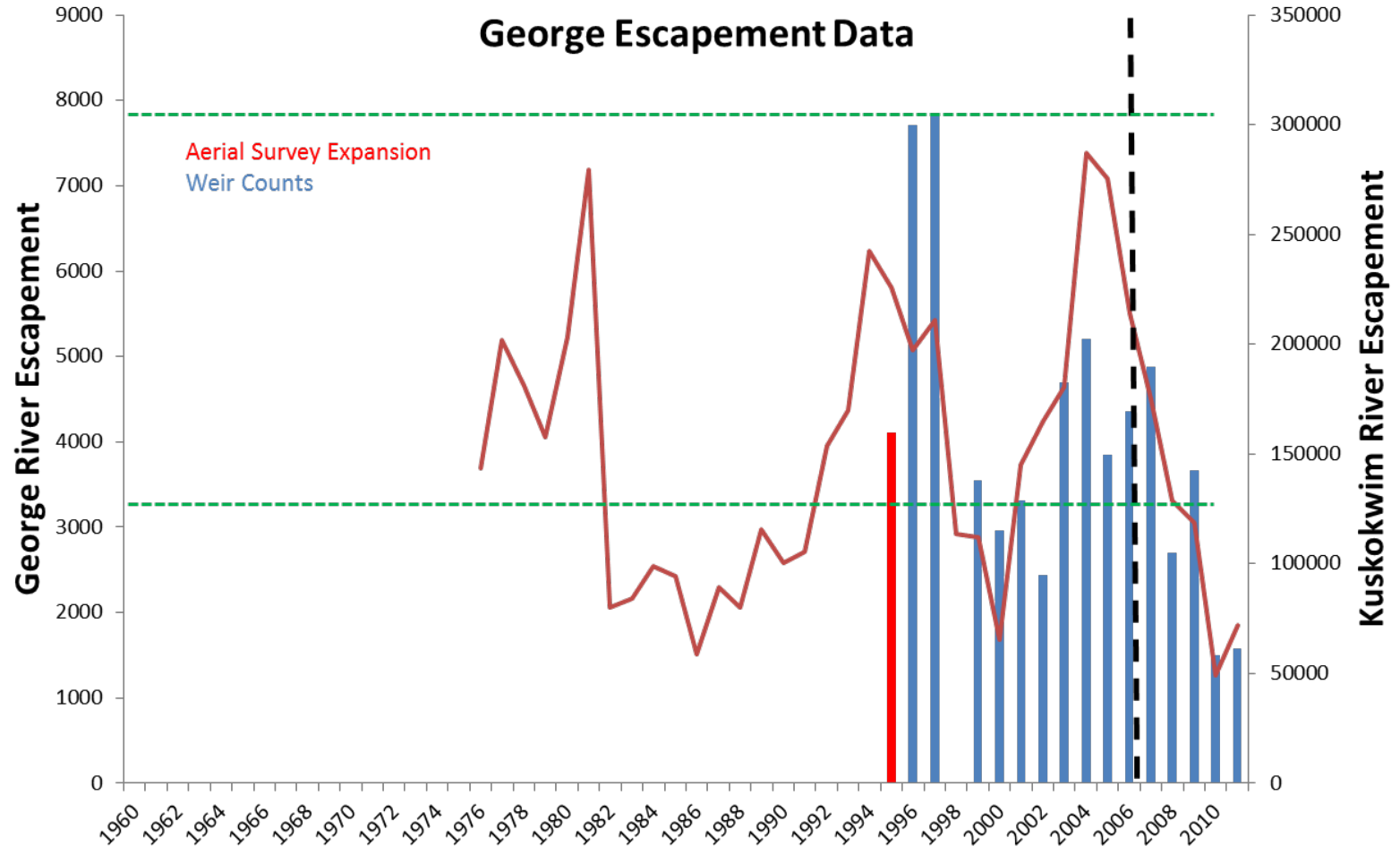
All escapements within this range provide greater than 100,000 fish available for harvest.

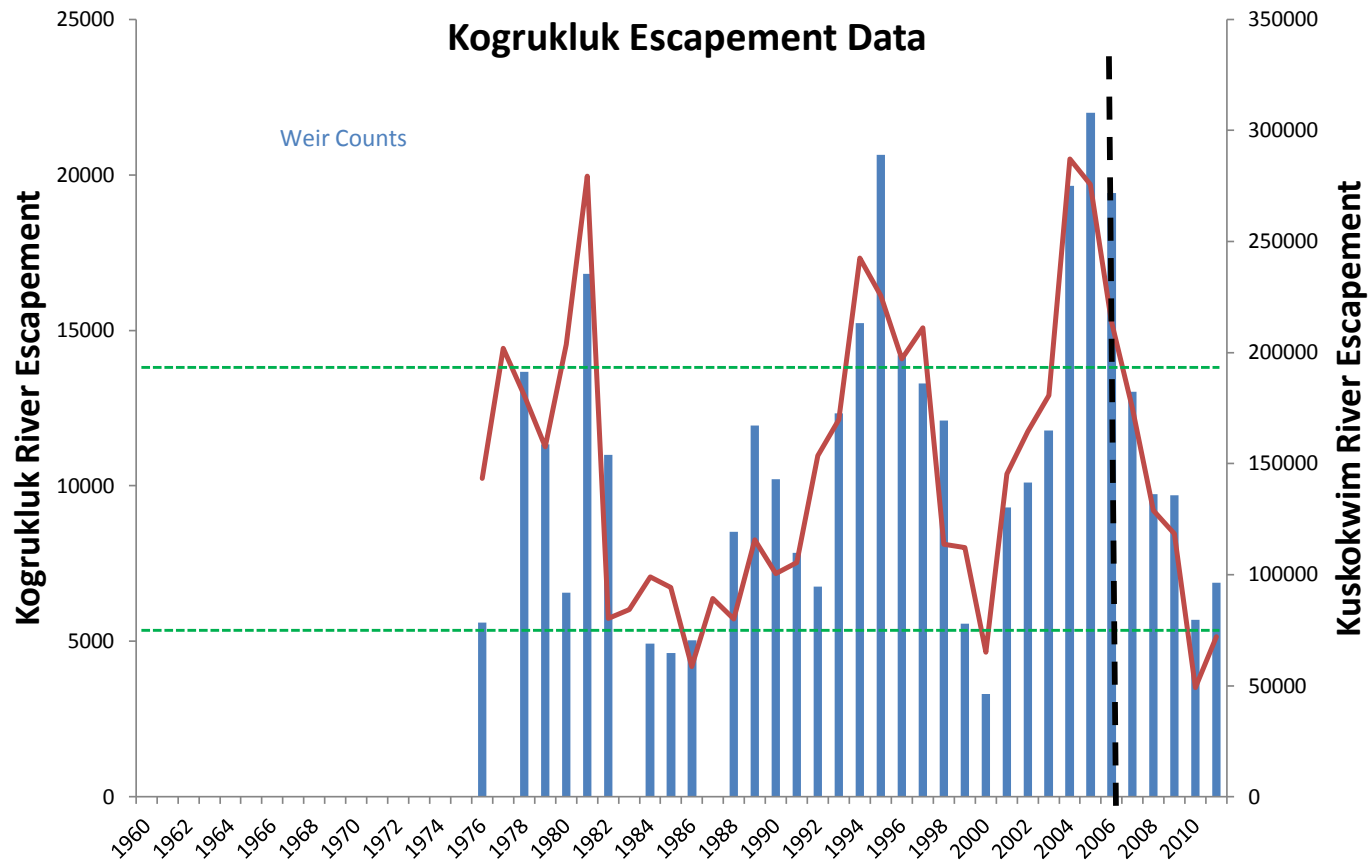
Tributary Weir Escapement Goals

- Current Escapement goals used the percentile method to identify range
 - 15th and 85th percentile of observed historical escapements at each project
- In most instances the data used was less than ideal
 - Kwethluk; 16 data points (2 years of tower; 9 years of aerial conversion; **5 years of weir**)
 - Tuluksak; 16 data points (7 years of aerial conversion; **9 years of weir**)
 - George; 10 data points (1 year of aerial conversion; **9 years of weir**)
 - Most data was not consecutive
 - Does not identify if escapement was sustainable, if no full coverage of recruitment period (8 yrs.)
 - Most data was collected during high abundance years, meaning the majority of observations were above average resulting in escapement goals that are high.
 - Weir goals should be based on weir data, because the assumptions of uncertainty with observations are specific to the method of data collection
 - i.e. Weir counts are better than tower counts, which are better than aerial survey counts
 - None of these are assumed to be consistent with one another, you must evaluate first.





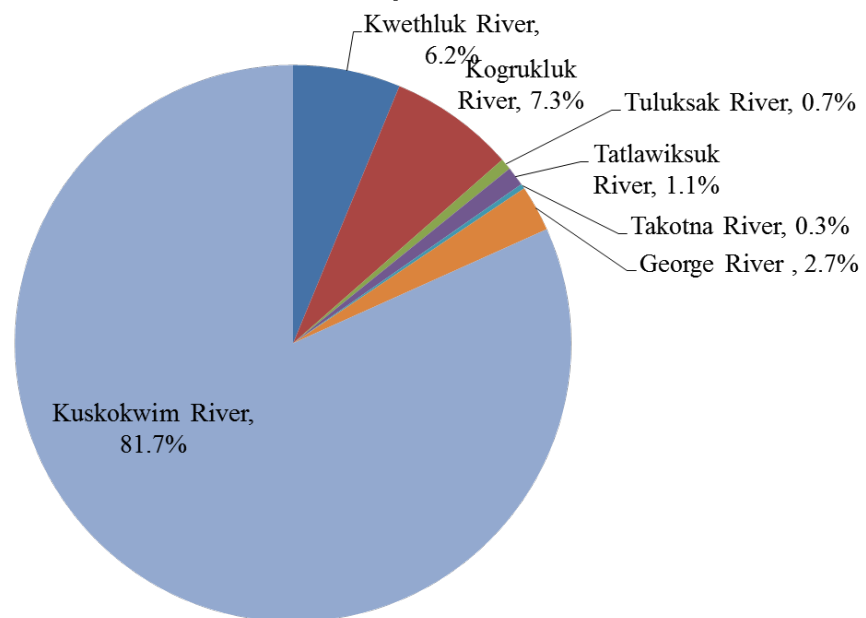




Tributary Escapement Goals

- We will use the average proportion of the total escapement monitored at each weir
- Apply these proportions to the whole river SEG to get tributary SEG's
 - Same scale as the whole river SEG
 - Reduce false indicators of escapement inadequacies.

Tributary Proportions of total Escapement



Tributary EG Development

System	% total escapement	Lower SEG	Upper SEG
Kuskokwim River		65,000	120,000
Kwethluk River	6.2%		
Kogruklu River	7.3%		
Tuluksak River	0.7%		
Tatlawiksuk River	1.1%		
Takotna River	0.3%		
George River	2.7%		

Kuskokwim River Chinook salmon Escapement Goal Recommendations for 2013 BOF

System	% total escapement	Lower SEG	Upper SEG
Kuskokwim River		65,000	120,000
Kwethluk River	6.2%	4,100	7,500
Kogruklu River	7.3%	4,800	8,800
Tuluksak River			
Tatlawiksuk River			
Takotna River			
George River	2.7%	1,800	3,300

** Tuluksak, Tatlawiksuk, and Takotna monitor a very small proportion of the total run. We will continue to operate these projects, while funding allows, and monitor their performance. However, managing the Kuskokwim River for less than 1% of the total population, when the Kuskokwim River SEG and other tributary SEG's are performing adequately, is very difficult. These recommended tributary goals represent the Lower (Kwethluk), Middle (George), and Upper (Kogruklu) regions of the Kuskokwim River, and act as regional indices. Chronic failure to achieve any of these goals would likely result in management action that affects the whole region identified.

ADF&G Chinook Salmon Symposium in Anchorage on October 22-23:



PRESS RELEASE
Symposium Information Contact:

COMMISSIONER'S OFFICE
Nancy Long, 907-465-6166 nancy.long@alaska.gov

ADF&G ANNOUNCES CHINOOK SALMON SYMPOSIUM **Symposium to address abundance and productivity trends for Chinook salmon in Alaska, to take place in Anchorage, October 22-23.**

In accordance with efforts outlined by Alaska Governor Sean Parnell and Alaska Department of Fish & Game (ADF&G) Commissioner Cora Campbell to address declining Chinook salmon abundance, ADF&G will convene a two-day scientific symposium in Anchorage October 22 – 23 to discuss necessary research and stock assessment to better understand the observed trends.

The symposium will feature scientific presentations and panel discussions from a wide variety of experts from private, state, federal, and academic backgrounds. The goal is to discuss gaps in knowledge of Chinook salmon abundance and productivity, and seek input on a targeted list of research priorities to fill these gaps. A draft analysis of knowledge gaps and associated research recommendations has been constructed by ADF&G scientists and will be made available prior to the symposium so the presenters, panelists, and the public will have the chance to review and provide constructive input on the research recommendations.

"All Alaskans have a stake in the health of our Chinook salmon resources," said ADF&G Commissioner Cora Campbell. "This Chinook Salmon Symposium will provide an opportunity for an exchange of information and ideas between top fishery scientists and stakeholders to further inform our comprehensive research plan. I greatly appreciate the commitment and efforts of all those engaged in this symposium and have a keen interest in the results."

More details about the symposium and the Chinook Salmon Research Plan will be available in the following weeks, and will be posted at: <http://www.adfg.alaska.gov/index.cfm?adfg=hottopics.chinooksalmon>

Interested Alaskans are encouraged to attend in person or stream it online via the link provided.

WHAT: CHINOOK SALMON SYMPOSIUM

WHEN: MONDAY AND TUESDAY, OCTOBER 22-23, 2012

WHERE: EGAN CONVENTION CENTER: 555 W. FIFTH AVE. ANCHORAGE, AK

Board of Fish:

<http://www.adfg.alaska.gov/index.cfm?adfg=fisheriesboard.main>

**ALASKA BOARD OF FISHERIES
2012/2013 Cycle
Tentative Meeting Dates and Locations**

**Bristol Bay, Arctic-Yukon-Kuskokwim, and
Alaska Peninsula/Aleutian Islands Finfish;
Statewide General Finfish Provisions;
and Supplemental Issues**

PROPOSAL DEADLINE: 5:00 p.m. Tuesday, April 10, 2012

Meeting Dates	Topics	Location	Comment Deadline
October 9-11, 2012 [3 days]	Work Session ACRs, cycle organization, Stocks of Concern	Anchorage EGAN Civic & Convention Center	Sept. 25, 2012
December 4-12, 2012 [9 days]	Bristol Bay Finfish	Naknek Bristol Bay Borough School	Nov. 19, 2012
January 15-20, 2013 [6 days]	Arctic-Yukon-Kuskokwim Finfish	Anchorage Sheraton Hotel	Jan. 2, 2013
Feb. 26-Mar. 3, 2013 [6 days]	Alaska Peninsula/ Aleutian Islands Finfish	Anchorage Sheraton Hotel	Feb. 12, 2013
March 19-24, 2013 [6 days]	Statewide Finfish and Supplemental Issues	Anchorage Hilton Hotel	Mar. 5, 2013

Total Meeting Days: 33

Agenda Change Request Deadline: **August 27, 2012** [45 days prior to fall Work Session]

Updated: August 30, 2012

WORKING GROUP CHAIRS LETTER TO JOHN BRYSON, US SECRETARY OF COMMERCE IN SUPPORT OF ADDING A TRIBAL MEMBER TO THE NPFMC (BEV HOFFMAN):

Kuskokwim River Salmon Management Working Group

P.O. Box 1467 • Bethel, AK 99559 • 907-543-2433 • 907-543-2021 fax

June 6, 2012

John Bryson, Secretary of Commerce
U.S. Department of Commerce □ 1401 Constitution Ave., NW □ Washington,
D.C. 20230

Dear Secretary Bryson:

We are co-chairs of the Kuskokwim River Salmon Management Working Group (KRSMWG), an advisory group to the Department of Fish and Game on Kuskokwim Salmon Management issues.

At our annual interagency meeting in March KRSMWG took action to endorse an Association of Village Council Presidents resolution requesting the addition of a tribal member to the North Pacific Fishery Management Council. The resolution came forth at the “State of Our Salmon” Convention earlier that month.

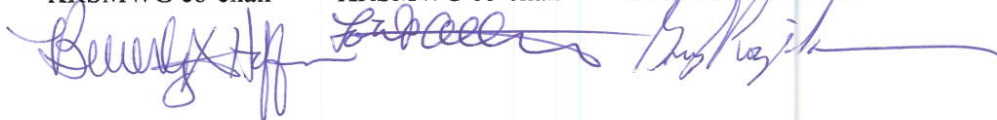
Tribal representation is sorely missing from a council who makes decisions that affect Alaska’s Indigenous people and we strongly encourage your consideration of the AVCP resolution. Thank you.

Sincerely,

Beverly Hoffman
KRSMWG co-chair

LaMont Albertson
KRSMWG co-chair

Greg Rocizka
KRSMWG co-chair



Cc: North Pacific Fishery Management Council 605 West 4th Suites 306 Anchorage Alaska 99501
Governor Sean Parnell P.O. Box 110001 Juneau, AK 99811-0001

INSEASON REPORTS:

LOWER KUSKOKWIM RIVER INSEASON REPORTS:

**Orutsararmiut Native Council (ONC)
Kuskokwim River Inseason Subsistence Catch Monitoring Report**

[Place holder]

MIDDLE AND UPPER KUSKOKWIM RIVER INSEASON REPORTS:

Kuskokwim Native Association (KNA)

From June 1st to August 30, 2012 the KNA fisheries department surveyed seven families from Kalskag, Aniak, Crooked Creek and Sleetmute. The KNA submitted four reports to the Working Group. The number of reports provided by KNA was lower this year because many families in the area either did not fish as often or did not choose to participate in the survey. Reasons for lowered activity and participation include subsistence closures and poor fish numbers. Each family surveyed expressed concern over not being able to harvest enough fish for the winter. They also noted that the fish run was late and the fish were fewer than in previous years. The KNA received reports of similar concerns from many other families in the Middle and Upper Kuskokwim Area (from Lower Kalskag to Nikolai) who did not participate in the survey reported to the Working Group.

OVERVIEW OF KUSKOKWIM RIVER SALMON RUN ASSESSMENT PROJECTS

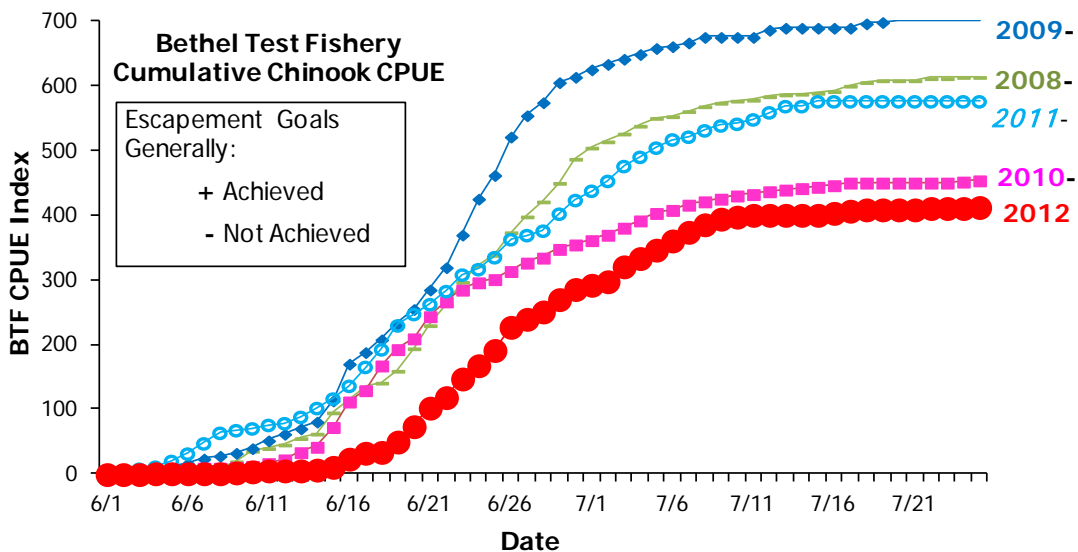
Bethel Test Fish Project Summary

Bethel test fish (BTF) project started on June 2 and operated through August 26. One hundred sixty five high tides occurred during the 86 day period of which 155 tides (94%) were fished successfully. Five hundred forty eight drifts caught 321 Chinook, 399 sockeye, 2,730 chum, 1,255 coho, and 18 pink salmon. Ninety-five percent (4,478 fish) of the catch was donated to local residents and 5% (245 fish) were sold locally.

Of the 321 Chinook salmon caught, 196 (61%) were caught in the 8-inch mesh net and 125 (39%) were caught in the 5 3/8-inch mesh net. Ninety-six percent of the Chinook salmon caught (307 fish) were sampled for age-sex-length determination.

Chinook Salmon:

The BTF Chinook salmon cumulative index indicated Chinook salmon abundance was lower than the four previous years, years when escapement goals were not achieved.



The BTF Chinook salmon cumulative index indicated the central 50% of the run passed Bethel four days later than average with the peak passage occurring on June 26, four days later than the average of June 22.

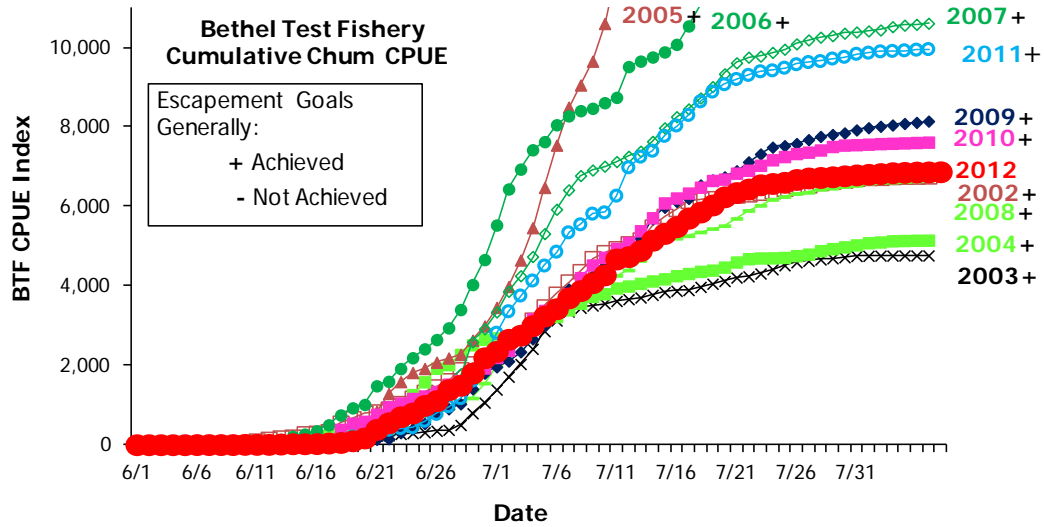
Cumulative daily percent of Chinook salmon

Cumulative daily percent of Chinook salmon catches in the Bethel test fishery as an indicator of annual run timing, 1984-2012.

Date	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	Date	Avg
5/30																														5/30	
6/05	0	0	2	1	1	0	1	1	0	6	6	2	10	2	4	0	1	3	1	7	2	1	0	1	0	1	2	3	0	6/05	2
6/06	0	0	3	1	1	0	1	2	0	8	10	3	14	2	6	0	7	5	3	7	2	1	1	1	1	2	5	0	6/06	3	
6/07	1	0	5	2	2	0	2	6	0	9	10	5	18	3	6	0	10	5	4	9	2	1	1	1	1	3	2	8	0	6/07	4
6/08	2	0	5	5	8	2	3	7	1	11	12	8	20	4	7	1	10	5	4	11	4	3	1	1	2	4	2	11	0	6/08	5
6/09	4	0	6	7	12	3	4	7	3	17	13	9	23	4	7	1	12	5	9	16	6	3	1	2	3	5	2	12	1	6/09	7
6/10	6	0	6	10	14	6	6	7	5	20	13	11	27	8	9	1	16	7	13	20	7	6	1	4	6	6	3	12	1	6/10	9
6/11	8	0	6	13	20	7	9	9	11	21	13	13	33	8	10	3	28	9	14	23	10	10	2	4	6	7	4	13	1	6/11	11
6/12	10	0	6	17	25	9	12	9	17	25	15	17	37	14	10	3	30	10	20	27	13	13	3	6	7	9	5	14	1	6/12	14
6/13	13	0	6	19	28	11	13	10	23	28	20	21	44	16	12	5	30	10	25	31	15	15	5	6	9	10	7	15	1	6/13	16
6/14	15	0	6	23	29	16	14	11	29	30	34	23	54	17	15	6	31	10	31	34	19	20	7	8	10	12	9	18	2	6/14	19
6/15	22	0	11	25	31	20	16	12	32	35	38	24	57	19	18	9	31	12	40	40	23	21	12	12	15	16	16	20	3	6/15	22
6/16	27	0	21	26	33	21	18	13	38	39	42	24	63	24	19	15	33	12	44	44	27	27	14	12	18	24	24	24	6	6/16	26
6/17	28	0	28	36	39	25	20	15	45	46	45	27	68	31	22	19	37	22	48	51	31	30	19	16	22	27	28	29	8	6/17	30
6/18	38	0	30	38	41	32	23	22	47	53	46	32	70	37	23	21	39	30	53	56	35	34	26	19	23	30	36	33	8	6/18	34
6/19	43	0	37	40	44	35	28	25	49	59	52	39	73	47	24	24	42	31	59	60	38	37	31	23	26	33	42	40	12	6/19	39
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6/21	50	7	47	48	56	41	33	37	54	71	61	48	81	65	33	25	54	38	64	68	49	49	38	28	37	40	53	45	25	6/21	47
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6/23	56	9	61	57	64	49	39	43	56	80	73	55	84	77	41	28	72	54	67	71	57	55	45	32	48	53	62	53	35	6/23	55
6/24	60	9	68	59	70	53	45	46	60	85	73	61	87	78	48	31	74	56	69	74	61	59	50	36	52	60	64	55	40	6/24	59
6/25	61	13	68	65	72	58	52	51	63	86	76	66	89	82	55	36	75	61	72	76	65	63	54	40	54	66	65	58	46	6/25	62
6/26	63	13	71	69	75	67	59	53	66	87	77	74	90	85	59	39	75	64	75	78	69	67	58	43	60	74	68	63	54	6/26	66
6/27	65	15	75	73	79	77	62	54	69	88	80	76	91	88	62	45	77	73	77	79	71	68	63	46	64	79	71	64	57	6/27	69
6/28	69	23	75	76	80	79	68	58	72	89	81	77	92	88	68	52	83	78	79	81	75	69	67	51	68	82	73	65	60	6/28	72
6/29	70	30	76	79	81	79	73	67	75	90	85	82	93	88	72	53	86	79	80	83	79	72	71	56	72	86	76	70	65	6/29	75
6/30	71	34	78	81	82	83	73	72	77	93	87	85	94	89	79	53	87	79	83	86	82	74	74	63	78	87	77	73	68	6/30	78
7/01	73	44	81	83	85	86	73	77	80	94	88	88	94	89	81	56	87	80	84	86	84	76	77	69	81	89	79	76	70	7/01	80
7/02	78	45	84	85	85	86	75	82	82	94	89	89	94	89	85	60	89	82	87	87	85	78	80	73	83	90	80	78	71	7/02	82
7/03	79	53	87	86	87	88	79	86	84	95	90	91	94	90	87	62	89	84	88	88	86	79	83	79	85	91	83	82	77	7/03	84
7/04	83	59	89	87	88	89	83	89	87	96	91	93	95	91	91	63	89	85	90	89	87	81	87	83	87	92	85	85	80	7/04	86
7/05	85	67	90	88	90	91	85	90	88	96	92	94	96	91	92	65	89	87	91	91	88	84	87	84	88	93	88	87	83	7/05	88
7/06	87	74	91	90	90	92	86	91	88	96	94	94	97	93	93	67	90	87	92	92	88	88	90	86	89	94	89	89	86	7/06	89
7/07	87	77	92	92	90	93	88	92	88	96	97	95	97	94	95	67	92	89	93	92	89	90	91	88	90	95	90	90	90	7/07	90
7/08	88	81	94	92	90	94	91	93	89	97	97	96	97	94	96	72	92	91	93	93	89	92	91	89	91	96	92	92	92	7/08	92
7/09	91	86	95	92	90	95	92	93	89	98	98	98	98	94	96	74	92	91	94	93	90	92	89	92	96	92	93	94	7/09	92	
7/10	92	87	95	93	90	96	92	94	90	98	98	98	98	95	98	75	92	92	95	94	90	94	93	93	93	96	94	94	95	7/10	93
7/11	92	89	96	93	90	96	92	94	91	99	98	98	99	97	98	78	94	94	94	96	94	91	95	94	94	93	96	94	95	7/11	94
7/12	92	90	96	94	90	96	93	94	92	99	98	98	99	97	98	80	94	94	96	94	91	96	94	94	94	97	95	97	96	7/12	94
7/13	92	92	96	94	90	96	93	95	93	99	98	98	99	97	98	83	94	95	96	95	92	97	96	95	94	98	95	98	96	7/13	95
7/14	92	92	97	94	92	96	94	96	93	99	98	98	99	97	98	87	94	95	96	96	93	98	96	96	94	98	96	98	96	7/14	95
7/15	93	93	97	94	92	96	94	97	93	99	98	98	99	97	98	87	94	95	96	97	93	98	97	96	95	98	96	100	96	7/15	96
7/16	95	93	97	94	95	96	95	98	95	99	98	98	99	97	98	87	94	95	97	97	93	98	97	97	95	98	97	100	97	7/16	96
7/17	95	94	97	95	96	96	95	98	96	100	98	98	99	98	98	88	94	97	97	97	94	98	97	98	96	98	98	100	97	7/17	97
7/18	96	94	97	95	97	96	95	99	98	100	99	98	99	98	98	88	96	98	97	98	94	98	97	98	97	99	98	100	98	7/18	97
7/19	96	94	97	97	97	97	95	100	99	100	99	98	99	98	99	89	96	98	97	98	94	98	97	98	98	99	98	100	98	7/19	97
7/20	97	94	97	97	97	98	95	100	99	100	99	99	99	98	99	89	98	98	98	98	96	98	97	98	98	99	98	100	98	7/20	98
7/21	97	94	98	98	97	98	95	100	99	100	99	99	99	99	99	89	98	98	98	98	96	98	98	98	98	99	98	100	98	7/21	98
7/22	97	94	99	98	97	99	96	100	99	100	99	99	99	99	99	91	98	98	98	98	98	98	98	98	98	98	98	100	98	7/22	98

Chum Salmon:

The BTF chum salmon cumulative index indicated chum salmon abundance fell within the range of the most recent 10-year returns, all years when escapement goals were achieved.



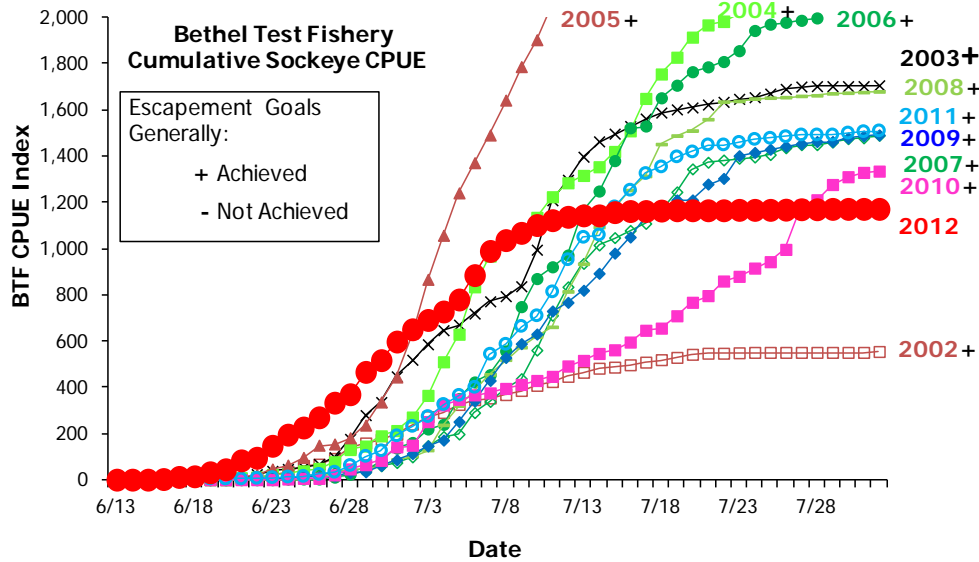
The BTF chum salmon cumulative index indicated the central 50% of the run passed Bethel two days later than average with the peak passage occurring on July 6, two days later than the average of July 4.

Cumulative daily percent of chum salmon catches in the Bethel test fishery as an indicator of annual run timing, 1984-2012.

Date	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	Date	Avg 84-11	
6/14	3	0	2	2	7	3	1	1	4	1	3	0	10	0	1	2	1	0	3	1	2	0	2	0	0	0	0	0	0	6/14	2	
6/15	3	0	3	2	8	5	1	1	7	2	6	1	12	1	1	2	1	0	4	1	3	0	2	1	1	1	1	1	1	0	6/15	2
6/16	4	1	4	3	8	6	1	1	11	2	7	2	14	2	1	2	1	0	4	2	3	1	3	1	1	1	1	1	1	0	6/16	3
6/17	6	1	7	6	9	6	2	1	13	2	8	4	16	2	2	3	1	0	5	2	4	1	4	1	1	1	2	1	1	0	6/17	4
6/18	9	2	10	7	13	8	2	1	14	4	9	5	18	4	2	3	1	2	8	2	6	1	5	1	1	1	5	1	1	0	6/18	5
6/19	9	7	14	7	16	10	3	1	14	4	14	6	26	5	2	3	2	2	10	3	7	1	7	1	2	1	7	2	1	0	6/19	7
6/20	10	15	15	8	17	12	4	3	15	4	15	8	35	6	2	3	3	2	12	4	9	3	7	2	2	1	8	2	2	0	6/20	8
6/21	12	16	17	8	20	15	5	3	17	6	20	12	45	12	2	5	5	2	12	5	10	5	11	3	3	2	10	3	6	0	6/21	10
6/22	13	17	20	13	25	17	6	4	19	9	23	14	49	15	3	7	6	2	13	5	13	7	11	4	4	2	12	4	8	0	6/22	12
6/23	17	20	25	15	29	20	8	5	20	12	27	17	55	16	12	7	9	3	15	6	18	9	14	5	5	4	14	4	10	0	6/23	15
6/24	24	20	28	16	31	26	10	5	21	17	29	18	63	18	19	9	10	5	17	6	24	10	16	6	6	5	15	4	12	0	6/24	17
6/25	31	24	39	17	31	34	12	6	23	21	30	24	69	21	20	10	12	10	20	6	30	11	17	8	9	6	16	6	14	0	6/25	20
6/26	35	29	43	19	33	39	13	8	24	21	30	28	73	27	21	10	14	16	22	7	37	11	19	10	11	9	18	8	16	0	6/26	23
6/27	39	33	46	21	38	44	20	13	31	21	30	28	74	29	26	12	17	18	24	8	38	12	21	12	14	11	20	10	20	0	6/27	25
6/28	44	35	47	23	40	47	22	17	34	22	30	30	75	29	31	12	22	19	28	10	43	12	24	17	16	12	21	12	22	0	6/28	28
6/29	45	48	47	28	43	51	25	22	39	23	33	33	76	33	43	13	26	19	28	10	48	14	29	24	17	17	23	16	26	0	6/29	32
6/30	47	62	49	33	44	56	27	23	43	29	33	36	77	34	47	13	28	19	31	22	51	16	33	27	23	22	25	22	32	0	6/30	35
7/01	52	68	50	36	52	60	29	25	47	33	33	40	78	37	51	15	35	20	34	29	51	19	40	31	30	24	29	28	34	0	7/01	38
7/02	59	70	51	39	55	63	30	32	48	34	33	44	80	38	61	19	47	22	39	36	52	22	46	36	35	25	31	33	38	0	7/02	42
7/03	61	72	56	40	64	66	37	34	57	39	37	51	80	41	65	21	52	27	41	42	54	26	50	40	40	28	37	37	40	0	7/03	46
7/04	70	72	59	41	73	68	45	36	68	42	40	56	82	42	68	22	69	34	46	50	57	30	53	44	44	32	41	41	43	0	7/04	51
7/05	77	75	67	44	76	75	52	37	74	45	42	61	84	46	70	25	72	36	51	59	59	36	55	30	47	36	44	45	47	0	7/05	55
7/06	79	77	70	52	79	77	53	38	77	47	50	62	85	48	73	26	73	37	56	65	61	41	58	56	50	43	45	48	50	0	7/06	58
7/07	82	84	72	62	79	81	59	39	78	48	55	69	86	54	79	30	75	39	60	70	65	47	59	60	51	47	50	53	54	0	7/07	62
7/08	84	84	73	63	80	84	64	40	82	50	71	76	86	60	89	34	77	41	64	72	68	50	60	64	54	49	55	55	56	0	7/08	65
7/09	86	85	79	68	82	86	67	44	84	52	79	81	86	64	93	35	80	42	69	73	71	53	61	65	58	52	59	58	59	0	7/09	68
7/10	87	85	80	72	85	89	70	48	85	53	84	82	88	65	94	43	80	46	71	74	72	58	62	66	63	55	62	58	62	0	7/10	71
7/11	88	85	82	74	86	89	73	50	87	54	85	85	88	68	95	45	83	55	73	75	75	65	63	67	63	59	65	62	68	0	7/11	73
7/12	88	85	86	75	87	89	75	53	89	57	86	86	89	70	95	47	85	63	75	76	76	70	68	68	65	60	67	70	69	0	7/12	75
7/13	89	86	90	77	89	91	76	55	91	67	88	88	90	73	95	49	87	74	76	77	77	72	69	69	69	63	70	72	71	0	7/13	77
7/14	89	86	90	82	89	92	77	57	92	70	90	89	90	74	95	51	90	79	81	78	79	75	70	72	73	69	75	74	75	0	7/14	80
7/15	93	86	90	83	91	93	78	59	93	75	90	90	92	77	95	55	91	79	85	80	80	76	71	75	76	72	80	77	77	0	7/15	81
7/16	94	86	91	84	92	94	80	60	94	78	91	90	93	79	95	62	92	86	87	80	81	76	72	77	77	74	81	80	80	0	7/16	83
7/17	95	88	92	86	94	94	81	61	95	81	91	91	94	80	95	70	95	91	90	81	82	78	76	79	78	75	83	83	83	0	7/17	85
7/18	95	89	93	88	95	95	83	65	95	83	92	91	95	83	96	77	96	92	91	83	83	80	80	82	79	79	85	86	85	0	7/18	87
7/19	96	91	94	93	95	96	85	66	96	87	93	92	96	85	96	82	96	94	91	84	84	83	83	85	81	81	87	89	88	0	7/19	89
7/20	96	91	95	96	95	97	88	68	96	89	93	93	96	87	97	86	97	95	92	86	85	86	87	88	82	82	87	90	91	0	7/20	90
7/21	97	91	96	97	96	97	90	71	97	91	93	93	97	88	97	88	97	95	92	87	88	87	90	90	84	84	89	92	92	0	7/21	91
7/22	97	92	97	97	96	98	91	75	97	96	95	94	98	89	97	92	98	96	93	88	89	89	90	92	87	86	90	93	93	0	7/22	93
7/23	98	93	98	97	96	98	93	78	97	97	97	96	96	98	90	98	94	98	96	93	90	90	90	92	89	89	92	94	95	0	7/23	94
7/24	98	93	99	97	97	98	94	79	97	98	97	96	99	92	98	96	98	97	94	92	90	91	94	93	92	91	94	94	95	0	7/24	94
7/25	98	94	99	98	97	98	94	83	98	98	97	97	99	94	98	96	98	97	95	94	90	92	95	93	93	91	95	95	96	0	7/25	95
7/26	98	94	99	99	97	98	94	84	98	98	97	97	99	95	98	98	98	98	96	95	91	93	95	94	92	96	95	97	97	0	7/26	96
7/27	99	94	99	99	98	98	95	88	98	98	98	98	98	100	95	99	98	98	96	96	91	94	97	96	94	93	96	96	97	0	7/27	96
7/28	99	95	99	99	98	98	96	89	98	98	98	98	98	100	95	99	99	99	99	97	93	94	97	96	95	94	97	96	98	0	7/28	97
7/29	99	95	99	99	98	98	97	92	99	98	98	98	99	100	96	99	99	99	98	97	98	94	94	98	97	96	95	98	97	0	7/29	97

Sockeye Salmon:

The BTF sockeye salmon cumulative index indicated sockeye salmon abundance was the second lowest of the most recent 10-year returns, however, within the range of years when escapement goals were achieved.



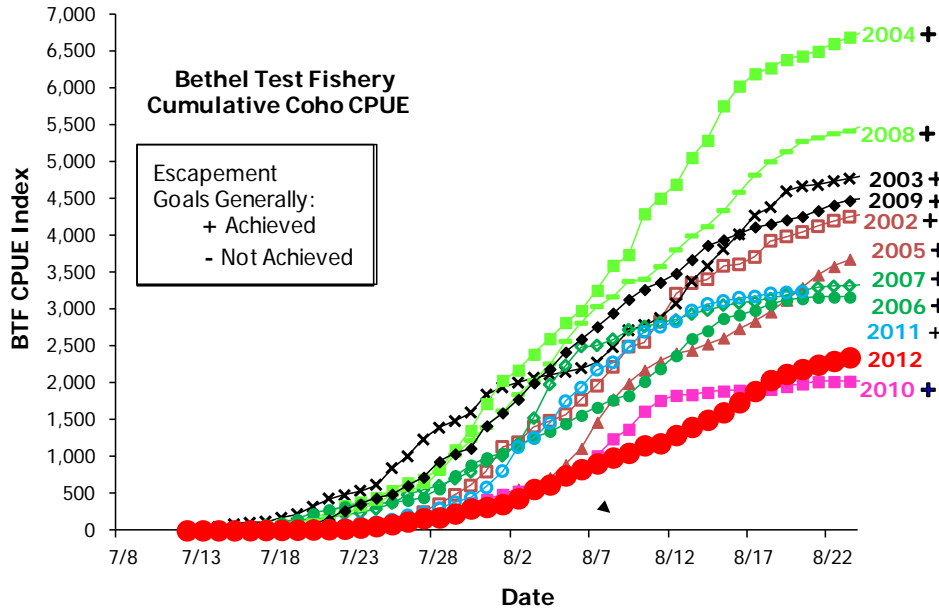
The BTF sockeye salmon cumulative index indicated the central 50% of the run passed Bethel five days later than average with the peak passage occurring on July 1, three days later than the average of June 28.

Cumulative daily percent of sockeye salmon catches in the Bethel test fishery as an indicator of annual run timing, 1984-2012.

Date	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	Date	Avg 84-11	
6/12	1	0	2	7	10	5	1	0	0	1	0	0	7	1	0	0	3	1	6	3	1	2	0	0	0	1	0	1	0	6/12	2	
6/13	2	0	3	9	13	6	1	0	1	3	0	0	9	1	0	0	4	2	11	3	2	3	0	1	0	1	0	1	0	6/13	3	
6/14	3	0	3	9	14	10	2	1	2	3	0	1	13	2	1	0	4	2	12	4	2	5	0	1	0	1	0	2	0	6/14	4	
6/15	3	0	5	11	14	13	4	1	3	4	0	2	16	3	1	0	5	2	16	6	4	5	1	2	2	1	2	2	0	6/15	5	
6/16	4	0	9	17	15	15	5	1	4	5	0	3	20	7	1	1	5	3	24	10	6	6	1	2	3	2	3	4	0	6/16	6	
6/17	5	0	11	26	16	17	11	4	9	9	1	3	21	8	2	2	5	8	28	16	7	8	2	3	3	2	5	7	1	6/17	9	
6/18	9	0	14	28	20	22	12	12	13	11	1	5	23	12	2	3	7	10	31	20	9	11	4	4	4	4	6	8	1	6/18	11	
6/19	9	1	19	29	26	26	16	14	14	12	5	7	29	14	3	4	9	13	35	26	10	15	6	5	5	6	10	13	3	6/19	14	
6/20	11	1	21	31	28	28	19	21	15	16	5	7	35	18	4	4	10	14	42	30	13	21	8	6	6	7	11	15	4	6/20	16	
6/21	12	2	27	33	37	35	20	22	18	24	11	12	42	30	5	5	14	18	48	34	17	29	10	10	7	10	18	18	7	6/21	20	
6/22	17	2	34	39	46	42	21	30	21	26	13	16	44	41	8	6	16	21	51	38	24	35	11	12	14	11	23	21	8	6/22	24	
6/23	17	8	36	52	54	47	28	33	24	30	18	17	49	42	18	6	38	38	57	39	30	41	16	13	19	16	25	24	12	6/23	30	
6/24	22	8	37	57	58	52	34	34	30	35	25	19	56	43	24	11	44	58	61	42	40	45	20	19	22	22	27	26	17	6/24	35	
6/25	29	16	47	59	60	62	42	35	39	41	27	29	63	49	25	12	48	62	62	45	46	49	54	26	26	30	35	29	39	23	6/25	40
6/26	32	24	55	61	68	65	44	36	41	43	30	35	69	53	28	14	48	69	65	46	49	54	26	26	30	35	29	39	23	6/26	43	
6/27	41	32	63	63	72	72	48	40	45	44	32	37	75	57	31	21	51	76	68	49	50	59	35	29	34	39	30	44	28	6/27	48	
6/28	44	39	69	64	75	77	56	46	58	45	33	46	78	57	33	24	58	80	72	58	54	63	41	37	36	41	31	47	32	6/28	52	
6/29	45	54	70	65	76	81	65	51	67	49	46	51	83	70	40	26	59	81	75	70	58	68	43	47	39	48	32	54	40	6/29	58	
6/30	48	63	79	71	78	86	66	54	74	74	47	55	84	73	46	27	63	82	79	75	61	73	45	55	48	50	36	63	44	6/30	63	
7/01	54	75	79	80	85	88	68	59	77	81	48	62	84	76	49	32	69	84	82	81	62	76	35	61	55	54	38	69	51	7/01	67	
7/02	62	78	83	82	86	89	70	65	80	84	50	67	85	79	58	35	75	87	85	85	64	78	58	67	64	59	40	70	55	7/02	71	
7/03	66	82	87	84	89	92	76	76	87	85	63	75	89	80	67	37	78	90	86	87	67	81	65	69	69	64	41	78	59	7/03	75	
7/04	72	84	88	88	92	92	84	82	89	88	69	80	91	81	76	38	81	92	88	89	72	83	71	71	73	69	43	83	62	7/04	79	
7/05	78	87	90	94	95	93	86	89	90	89	74	89	91	83	79	45	81	93	90	91	78	86	72	73	77	75	47	87	66	7/05	82	
7/06	82	90	91	95	96	93	87	90	91	91	85	91	92	84	82	50	82	93	92	83	88	77	77	85	77	48	89	75	7/06	85		
7/07	86	94	94	96	97	95	89	91	91	92	88	95	93	88	86	51	85	94	93	93	87	90	80	82	87	79	52	92	84	7/07	87	
7/08	91	94	95	96	98	97	92	91	92	95	91	97	94	91	95	56	92	96	96	94	91	92	83	88	88	79	56	93	88	7/08	90	
7/09	94	95	95	97	99	97	95	96	92	96	96	98	96	92	97	60	95	97	97	94	93	93	84	90	91	84	58	95	91	7/09	92	
7/10	94	96	95	99	99	97	96	97	93	96	98	98	97	94	98	68	97	97	97	95	94	94	85	91	96	86	62	95	94	7/10	93	
7/11	94	97	96	99	99	98	97	97	93	96	99	98	97	96	98	72	98	98	97	96	95	95	87	91	96	92	64	96	96	7/11	94	
7/12	95	97	97	99	99	98	97	98	94	96	99	98	98	96	98	77	99	98	97	96	96	95	91	92	92	96	93	67	97	97	7/12	95
7/13	95	97	97	99	99	99	98	98	95	97	99	99	98	96	99	79	99	99	99	97	96	95	92	92	97	94	69	97	97	7/13	95	
7/14	95	97	98	99	99	99	98	99	98	99	99	99	99	96	99	84	99	99	97	98	96	96	93	94	97	95	72	98	97	7/14	96	
7/15	95	97	98	99	99	99	99	99	99	99	100	99	99	99	97	99	99	99	99	97	96	93	95	97	95	86	98	99	7/15	97		
7/16	97	98	98	99	99	100	99	99	99	99	100	99	99	99	97	99	99	99	100	97	99	97	96	93	95	97	96	88	98	99	7/16	98
7/17	97	98	99	99	100	99	99	99	99	99	100	99	99	99	97	99	99	99	100	97	99	97	96	94	96	98	96	93	98	99	7/17	98
7/18	98	98	99	99	100	100	99	99	100	100	99	99	99	99	97	99	99	99	100	97	99	97	96	95	97	98	97	95	99	99	7/18	98

Coho Salmon:

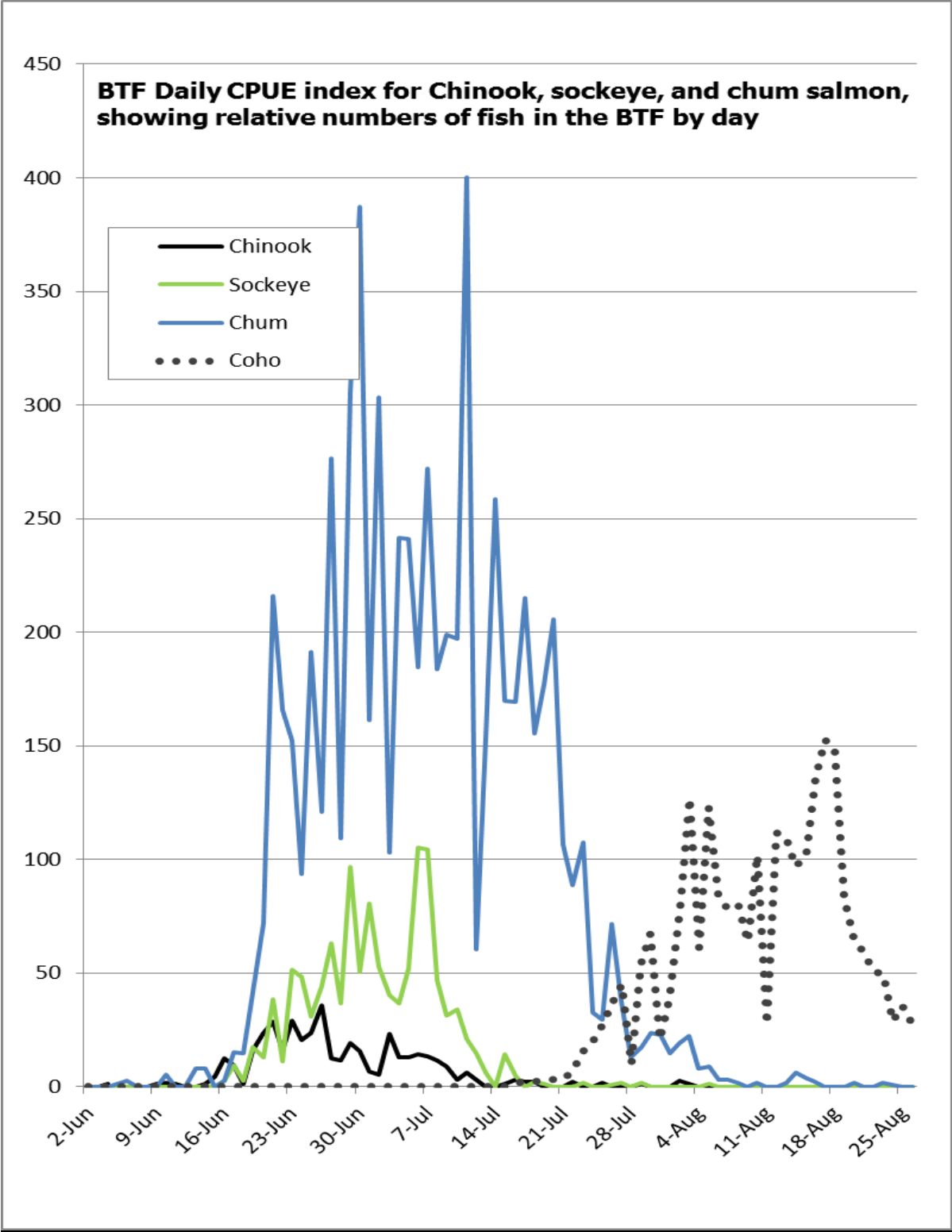
The BTF coho salmon cumulative index indicated coho salmon abundance was the second lowest of the most recent 10-year returns, however, within the range of years when escapement goals were achieved.



The BTF coho salmon cumulative index indicated the central 50% of the run passed Bethel two days later than average with the peak passage occurring on August 11, three days later than the average of August 8.

Cumulative daily percent of coho salmon catches in the Bethel test fishery as an indicator of annual run timing, 1984-2012.

Date	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	Date	Avg	
7/22	1	2	1	0	1	2	1	1	1	2	1	0	12	2	0	2	3	1	0	10	5	1	10	7	4	6	1	2	1	7/22	3	
7/23	1	2	1	1	1	2	2	2	2	3	2	1	13	2	0	2	5	2	1	11	6	2	11	7	5	8	2	3	2	7/23	3	
7/24	2	2	2	1	1	2	2	2	2	3	3	1	18	4	0	3	7	2	1	13	7	2	12	9	7	10	3	3	2	7/24	4	
7/25	2	3	3	1	1	2	2	2	2	3	5	2	30	7	1	3	8	2	2	18	8	2	12	11	9	11	4	4	4	7/25	6	
7/26	3	5	4	1	2	2	2	3	2	4	5	2	41	8	2	4	9	2	3	21	10	3	13	14	10	14	5	6	5	7/26	7	
7/27	3	5	6	1	3	2	3	4	3	4	6	3	45	9	3	5	11	5	6	26	10	4	14	17	11	16	6	7	7	7/27	8	
7/28	4	6	6	1	6	3	4	6	3	7	7	3	48	9	4	5	15	5	8	29	12	5	18	18	15	21	8	9	7	7/28	10	
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8/5	42	26	44	15	18	55	15	39	10	59	19	40	88	52	28	24	66	18	37	45	42	24	46	67	47	54	35	54	32	8/5	40	
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8/7	49	42	55	23	40	76	21	43	14	74	26	55	89	58	31	33	74	30	46	48	49	40	53	76	56	62	50	67	39	8/7	49	
8/8	52	47	57	26	46	78	24	47	18	77	34	57	90	59	33	33	75	41	52	52	54	48	56	78	58	66	61	70	42	8/8	53	
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8/23	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	8/23	100



Kuskokwim River Escapement Projects

*All Kuskokwim River escapement projects ended operations on or before September 15th. All data presented is **preliminary and subject to change**. Post-season estimates for all projects have not been completed or gone through the biometric review process.

Kwethluk River weir (USF&WS):

Target operational period: June 24th – September 10th

Escapement goal: 6,000 – 11,000 for Chinook salmon; >19,000 for coho salmon

Operation began on July 3rd, 2012. The weir did not operate from July 11th – 18th and 23rd – 29th due to high water events. Partial day counts occurred from July 19th – 22nd and on five additional days. Missed passage during these times has not been estimated. Weir operations ended on September 12th.

Tuluksak River weir (USF&WS):

Target operational period: June 24th – September 10th

Escapement goal: 1,000 – 2,100 for Chinook salmon

Operation began on June 27th, 2012. The weir experienced high water events from July 10th – 31st but was able to continue operating. The weir also experienced high water on September 6th – 8th. Weir operations ended on September 10th.

Salmon River (Aniak River) weir:

Target operational period: June 15th – August 28th

*No escapement goal for any species. This weir was operated from 2006–2009 as part of mark–recapture studies for Chinook and coho salmon. The weir was re-installed in 2012 to monitor Chinook salmon escapement.

Operation began on July 3rd, 2012. The weir was inoperable from July 9th – 16th and 22nd – 24th due to high water events. In addition, there were seven partial days of counts. Missed passage during these times has not been estimated. Weir operations ended on August 23rd.

George River weir (ADF&G and KNA):

Target operational period: June 15th – September 20th

Escapement goal: 3,100 – 5,900 for Chinook salmon

Operations began late on June 30th, 2012. The weir was inoperable and had partial or full days of missed passage from September 7th – 12th. The last day of operations was September 15th due to high water events.

Kogrukluk River weir (ADF&G):

Target operational period: June 24th – September 26th

Escapement goals: 5,300 – 14,000 for Chinook salmon; 15,000 – 49,000 for chum salmon; 4,400 for sockeye salmon; 13,000 – 28,000 for coho salmon

Operation began on June 30th, 2012. The weir did not operate from July 9th – July 27th due to high water events. In addition, there were eight partial days of counts and one additional full non-operational day. Missed passage during this time has not been estimated. Post-season estimation is necessary to determine if the Chinook, chum, sockeye, and coho salmon escapement goals were met. The weir went out of operation again on September 3rd – 12th. After reinstalling the weir operated on the 13th-15th before going out of operation for the remainder of the season.

Tatlawiksuk River weir (ADF&G and KNA):

Target operational period: June 15th – September 20th

No escapement goal for any species.

Operation began late on June 23rd, 2012. The weir was inoperable and had partial or full days of missed passage from September 6th – 11th. The last day of operations was September 15th due to high water events.

Takotna River weir (ADF&G and TCA):

Target operational period: June 24th – September 20th

No escapement goal for any species.

Operation began on July 5th, 2012. Few partial days of operation have occurred, however, no missed passage has been estimated at this time. The weir was inoperable and had partial or full days of missed passage from September 6th – 11th. The last day of operations was September 14th due to high water events.

Telaquana River weir (ADF&G and NPS):

Target operational period: July 4th – end of sockeye run

No escapement goal for any species.

Operation began on July 4th and ended on August 26th. The weir only had one partial day of operation. This weir does not estimate Chinook, chum or coho salmon as very few of these species are observed at the weir.

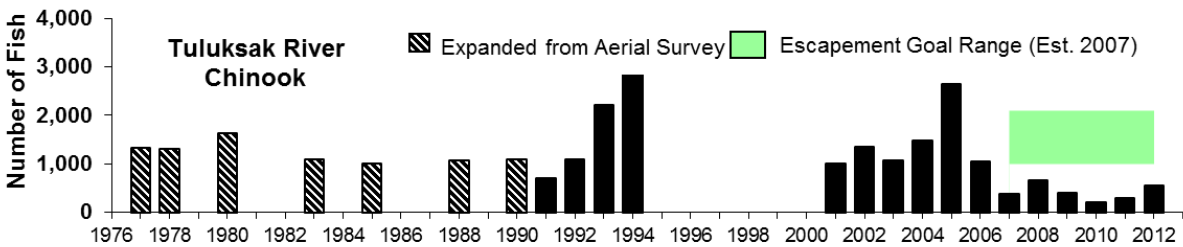
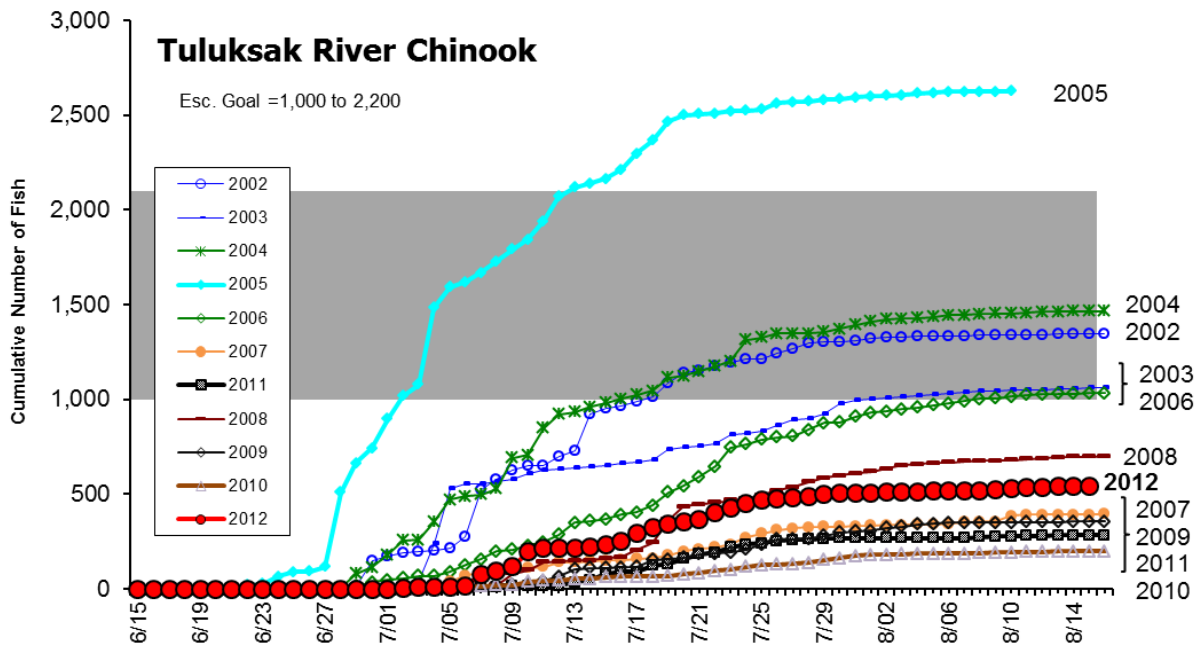
Chinook salmon

Kwethluk River weir

- Escapement without estimates: 944
- Monitored approximately 40 - 50% of run (missed peak).
- Escapement goal established in 2007 (6,000 – 11,000 fish) has never been met. This year it is unknown if escapement goal was met until estimates are made. Estimates will be made post-season.

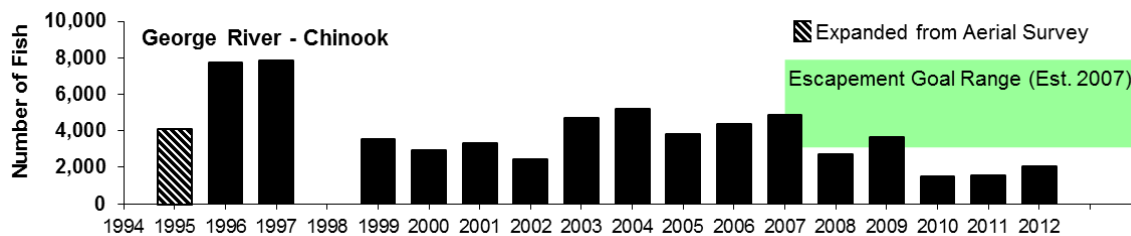
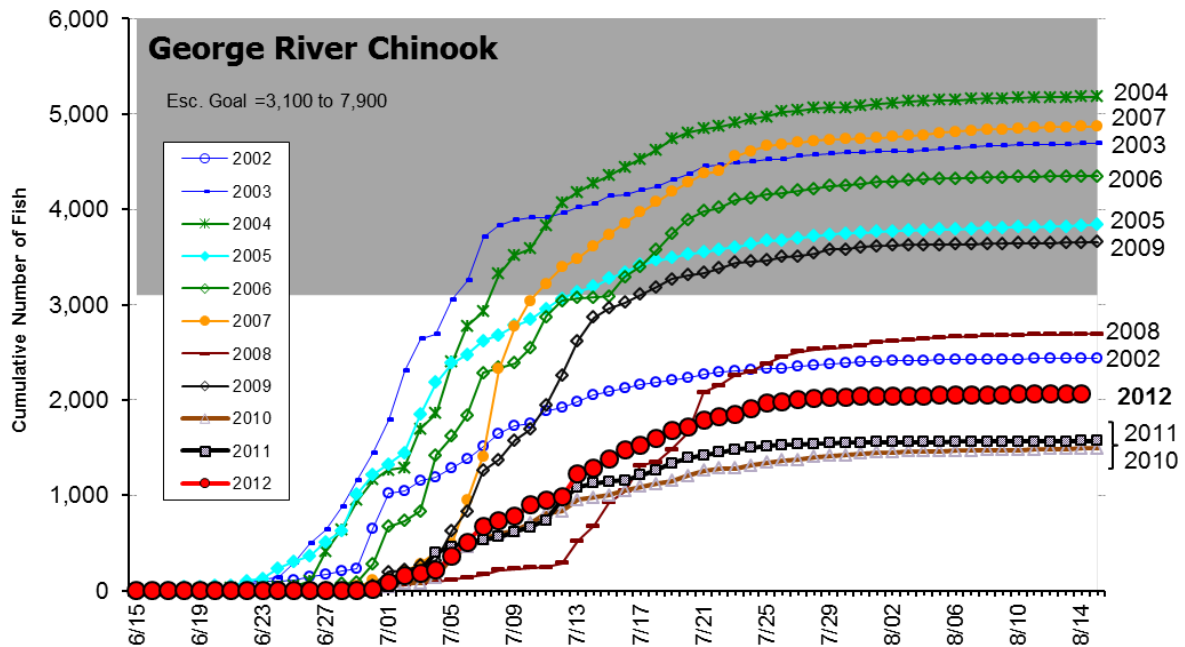
Tuluksak River weir

- Escapement without estimates: 545
- ~100% coverage of the run.
- Escapement goal (1,000 – 2,100 fish) was not met.
- Escapement was higher than 2007 and 2009 – 2011.
- Run timing was only a couple of days later than average and appeared earlier than the last six years.
- No estimates have been made. If necessary, estimates will be made post-season.



George River weir

- Escapement without estimates: 2,071
- ~100% coverage of the run.
- Escapement goal was not achieved for Chinook salmon (third year running).
- Escapement was third lowest on record (2010 and 2011 were lower).
- Late install could have contributed to missed counts however, in the past 6 years no more than 90 Chinook have passed the weir from June 15th – 29th.
- Run timing appeared later than average.

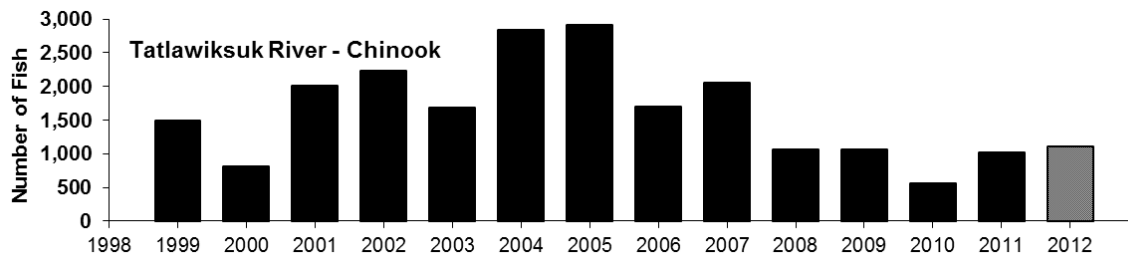
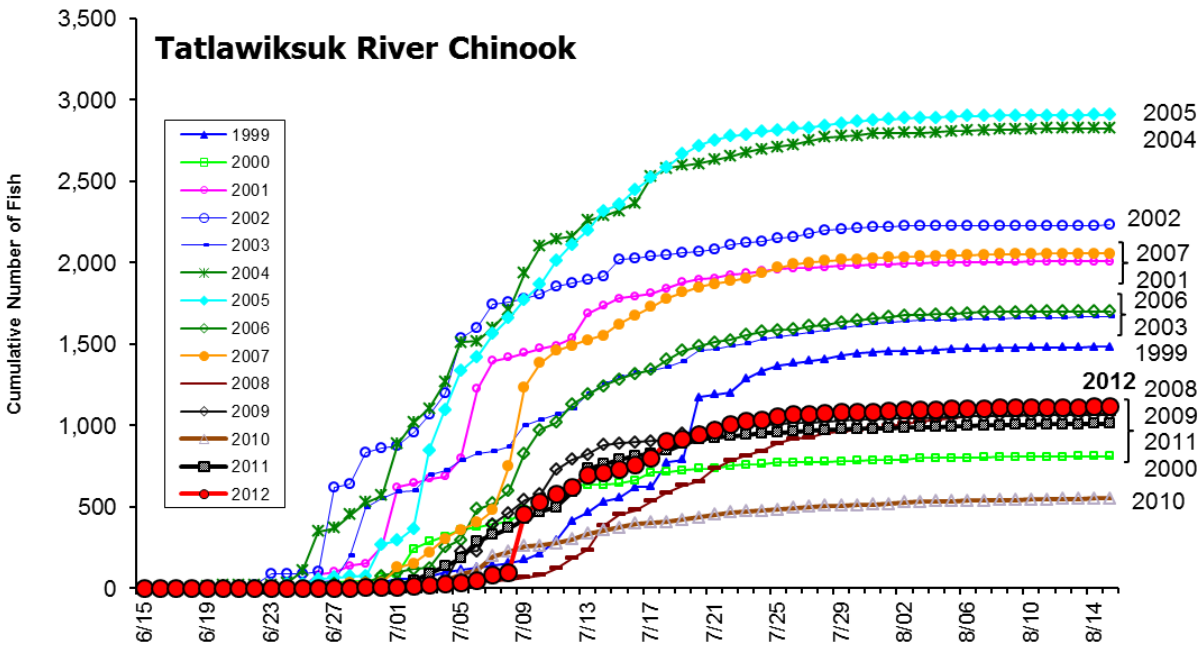


Kogrukluk River weir

- Escapement without estimates: 1,155
- Missed approximately 75% of run (missed peak).
- Estimates will be made post-season.

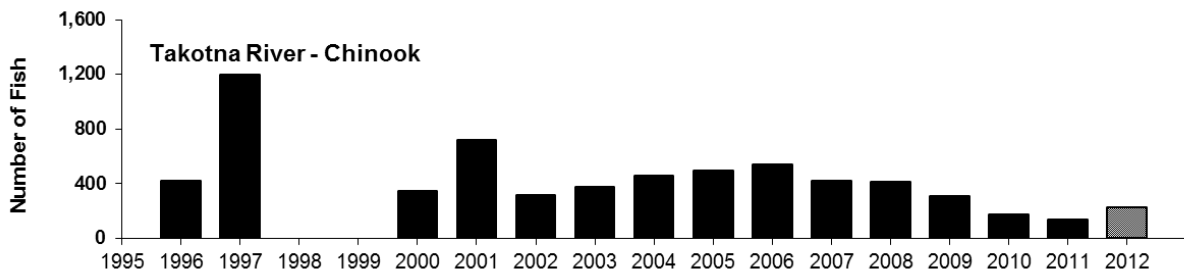
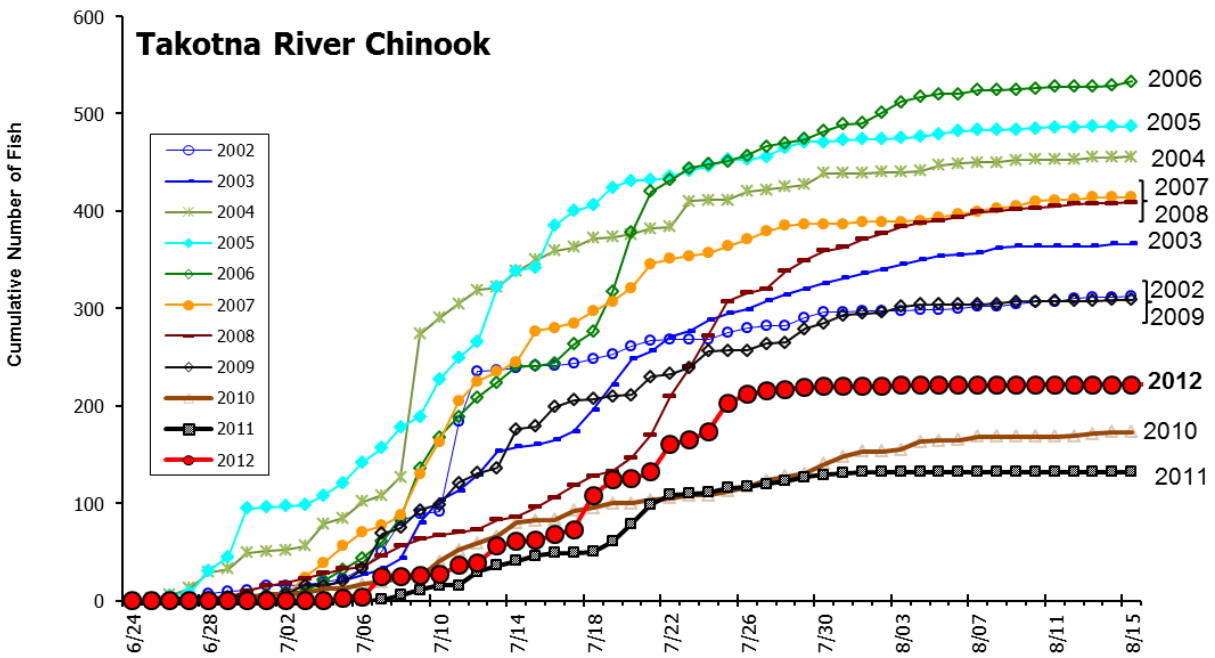
Tatlawiksuk River weir

- Escapement without estimates: 1,114
- ~100% coverage of the run.
- Escapement was better than 2008 – 2011 but only by 40 - 100 fish (excluding 2010).
- Late install (8 days) could have contributed to missed counts however, in the past 7 years fewer than 50 fish were counted during the eight days of missed counts at the start of the season. The weir did not count more than 4 fish per day until July 2nd.
- Run timing was only a couple of days later than average.
- 30% of the escapement occurred in one day (July 9th).



Takotna River weir

- Escapement without estimates: 227
- Escapement was better than 2010 and 2011.
- Late install (11 days) could have contributed to approximately 10% of passage missed.
- Run timing appears to have been later than average however without estimates for missed passage counts just how late is unknown.
- Post-season estimates will be made.



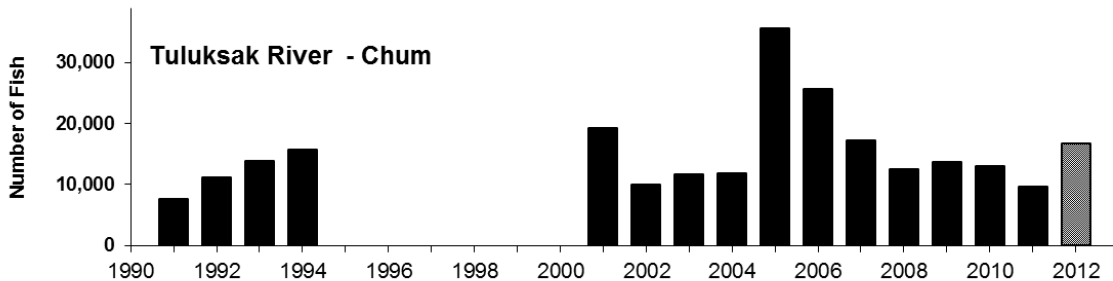
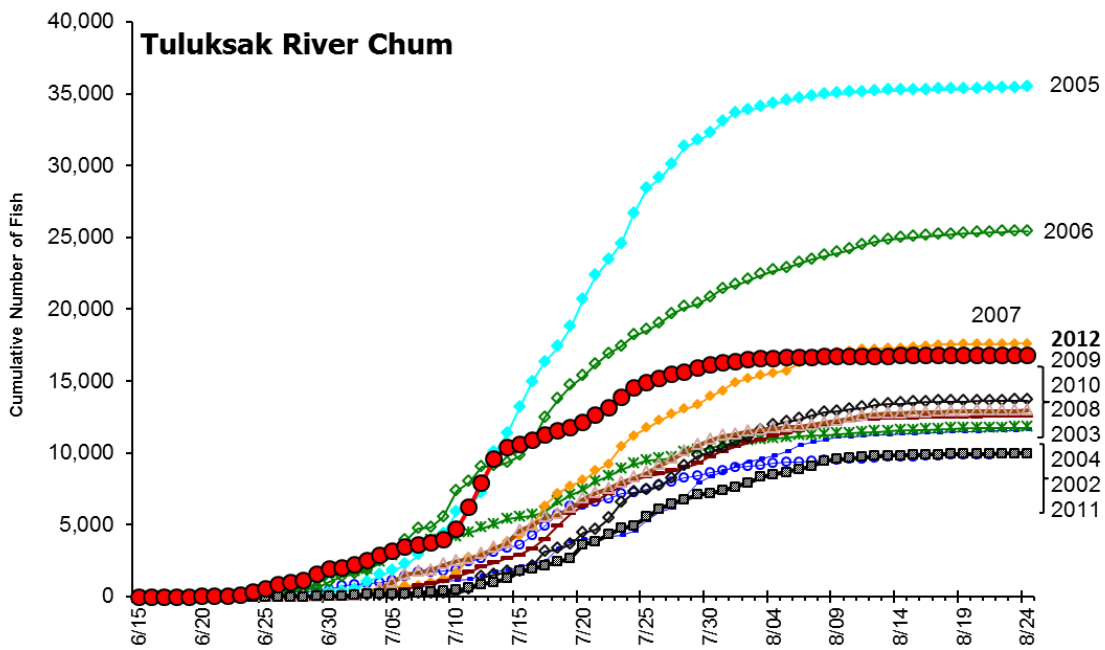
Chum salmon

Kwethluk River weir

- Escapement without estimates: 4,416
- Missed beginning and peak of the run (~50%).
- Estimates will be made post-season.

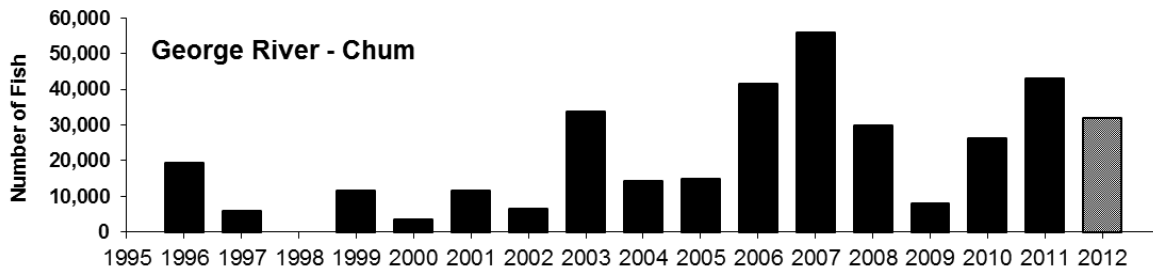
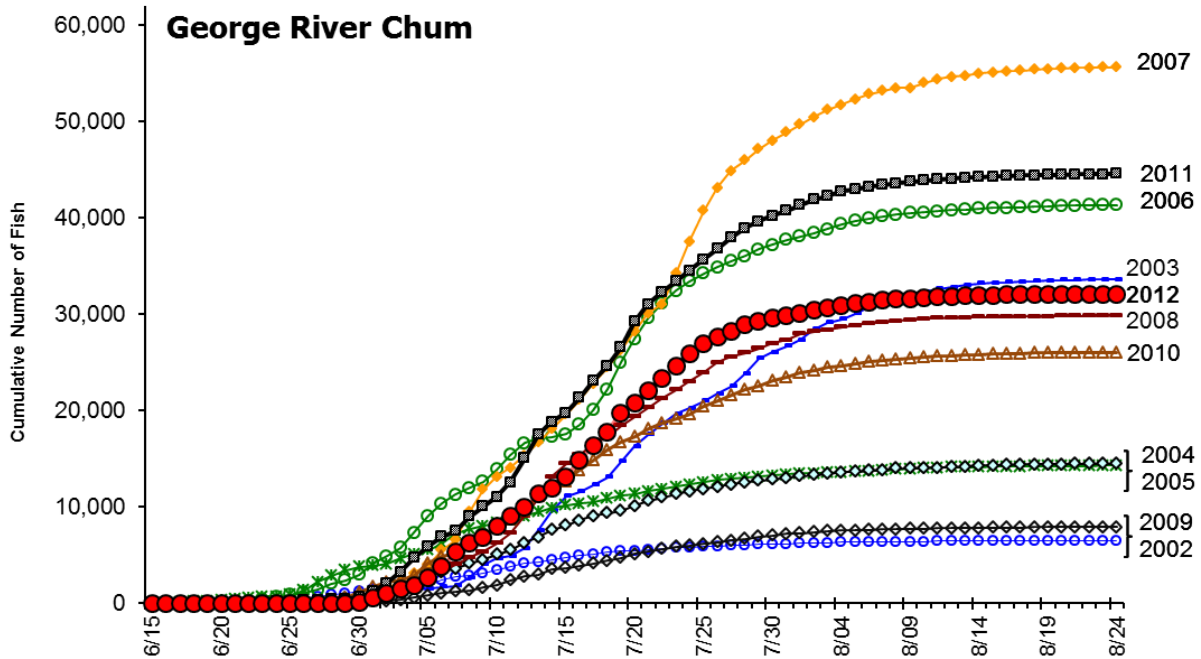
Tuluksak River weir

- Escapement without estimates: 16,782
- ~100% of the run was monitored.
- Run timing was slightly later than average.
- Fourth highest escapement on record.



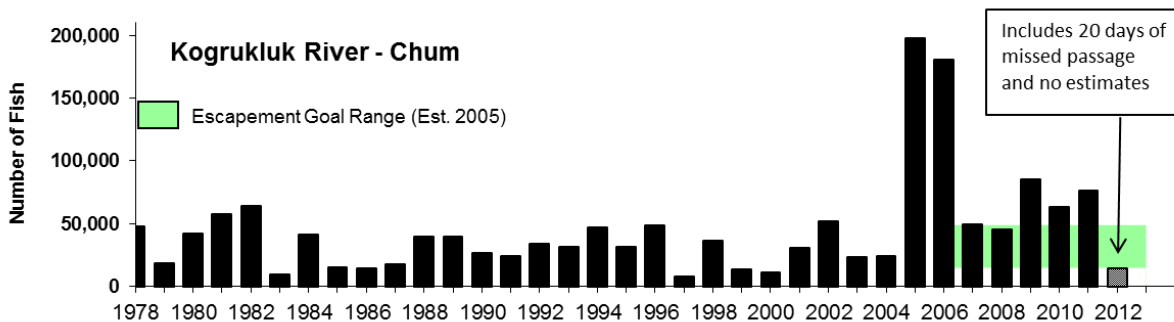
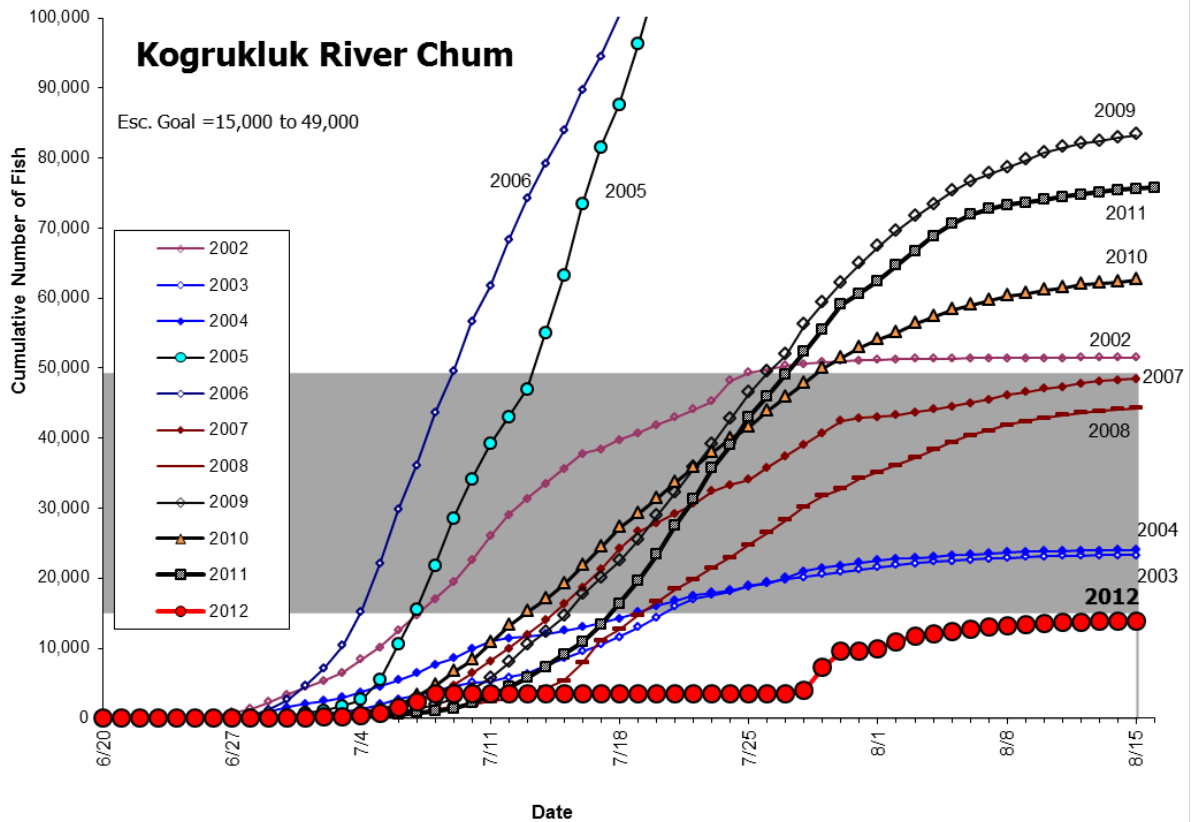
George River weir

- Escapement without estimates: 32,170
- Monitored 100% from install though the end of the chum salmon run.
- Late install could mean we missed 2 – 8% of the run.
- Run timing was few days later than average and similar to 2011 run timing.
- Estimates will be made post-season to account for missed passage.



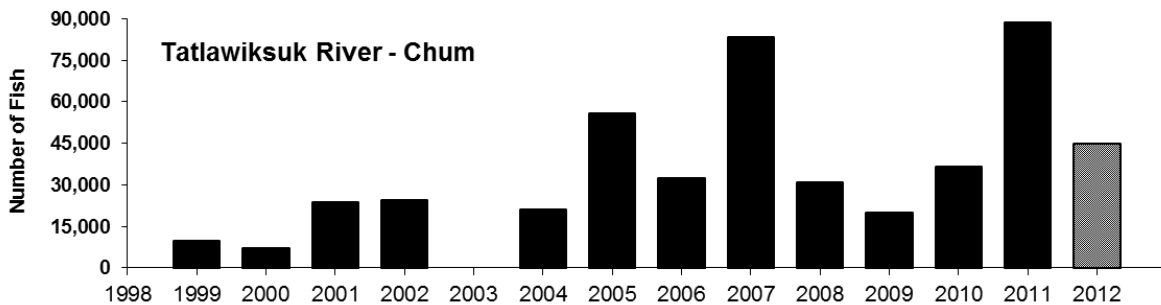
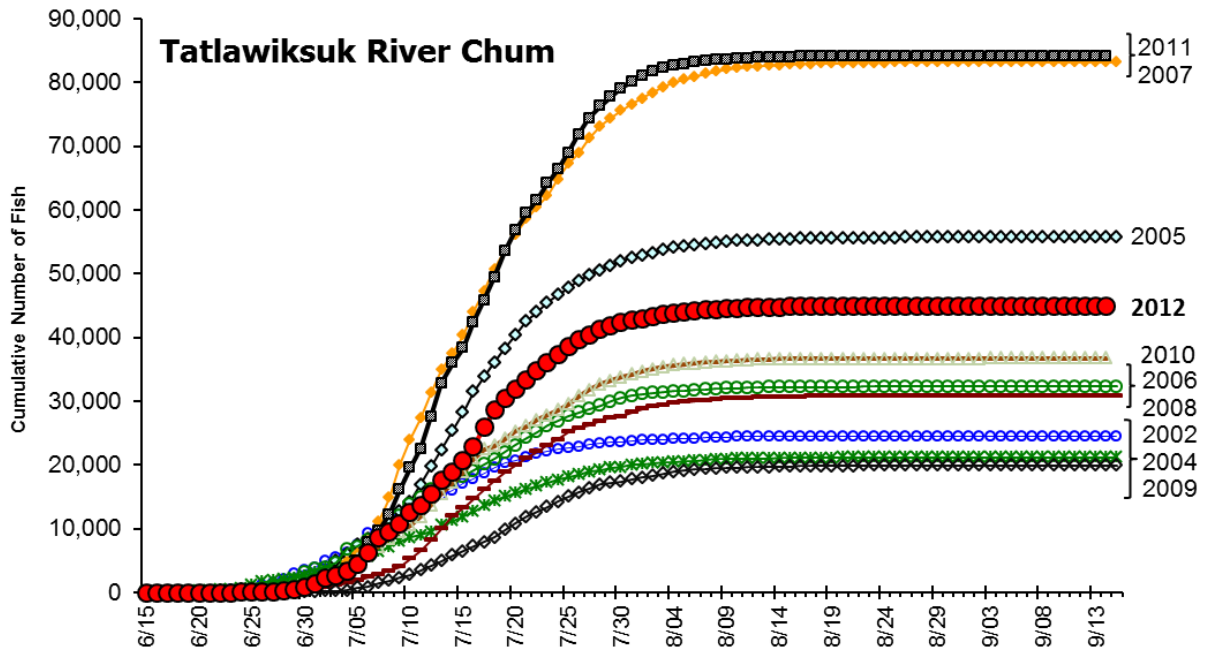
Kogrukluk River weir

- Escapement without estimates: 14,294
- 40 - 50% of run was monitored and missed the peak.
- Actual counts were only 706 chum salmon short of making the lower end the of the escapement goal.
- Estimates will be made post-season to determine total escapement.



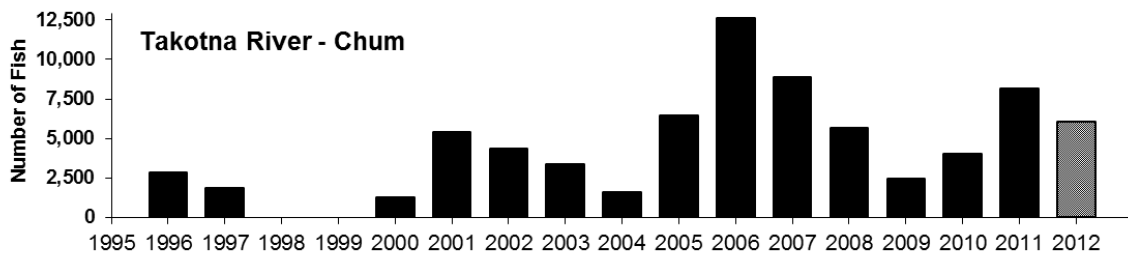
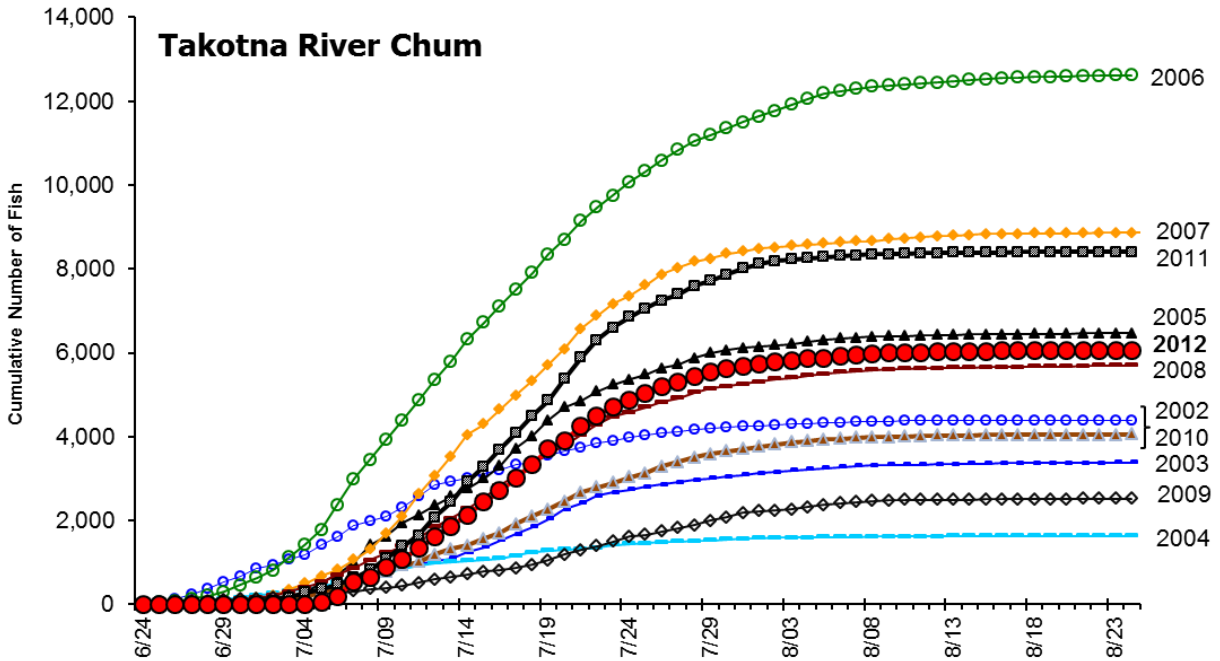
Tatlawiksuk River weir

- Escapement without estimates: 44,944
- Monitored 100% from install through the end of chum run.
- Late install could have contributed to missed passage however based on data from past years the weir rarely has more than 100 chum salmon prior to June 23rd.
- Fourth highest year on record since weir began operations.
- Run timing was about average.



Takotna River weir

- Escapement without estimates: 6,048
- Monitored 100% after install and through the end of the chum run.
- Due to late install missed passage could account for ~10% of the total escapement.
- Post-season estimates will be conducted to estimate missed passage.



Sockeye salmon

Kwethluk River weir

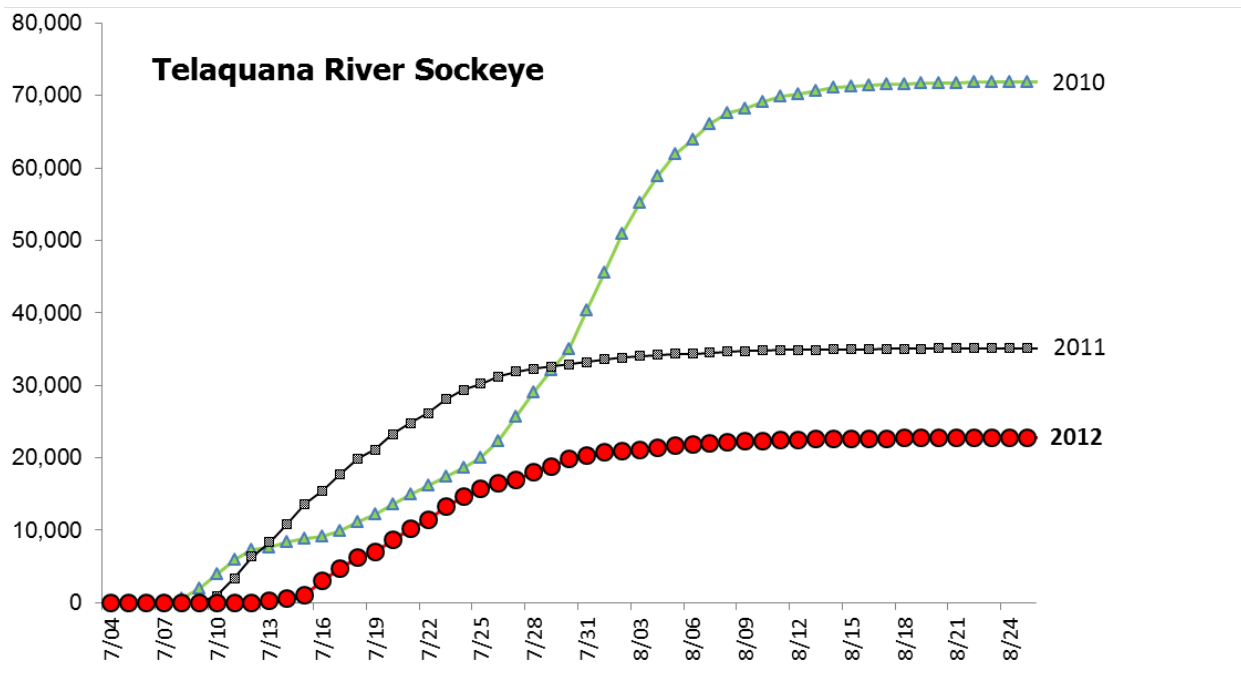
- Escapement without estimates: 249
- Missed ~45% of the run around the peak.
- Estimates will be made post season.

Kogrukluk River weir

- Escapement without estimates: 1,320
- Missed ~75% of the run around the peak.
- Estimates will be made post season.

Telaquana Lake weir

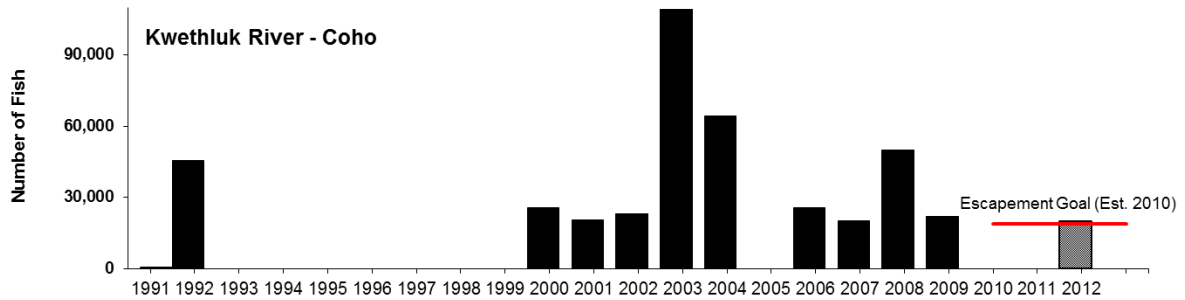
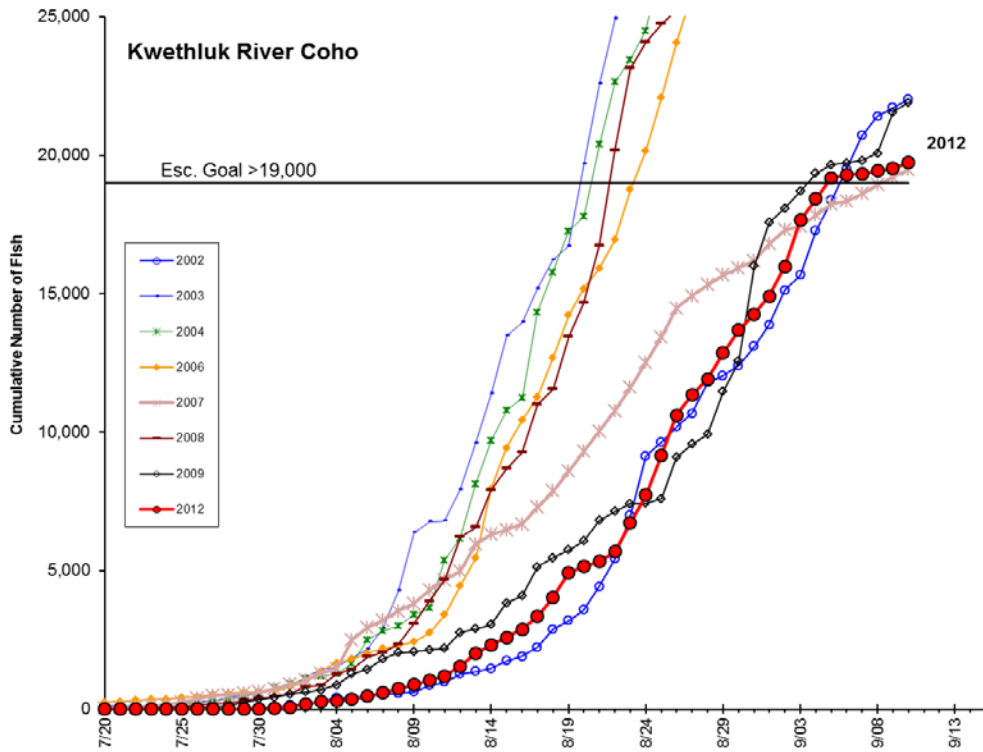
- 100% monitored
- Escapement total: 22,752 sockeye
- Run timing was later than previous two years and total escapement was lower.



Coho salmon

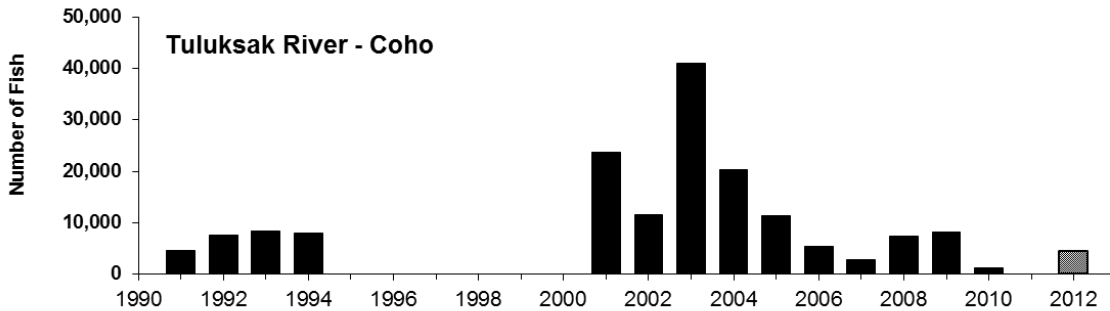
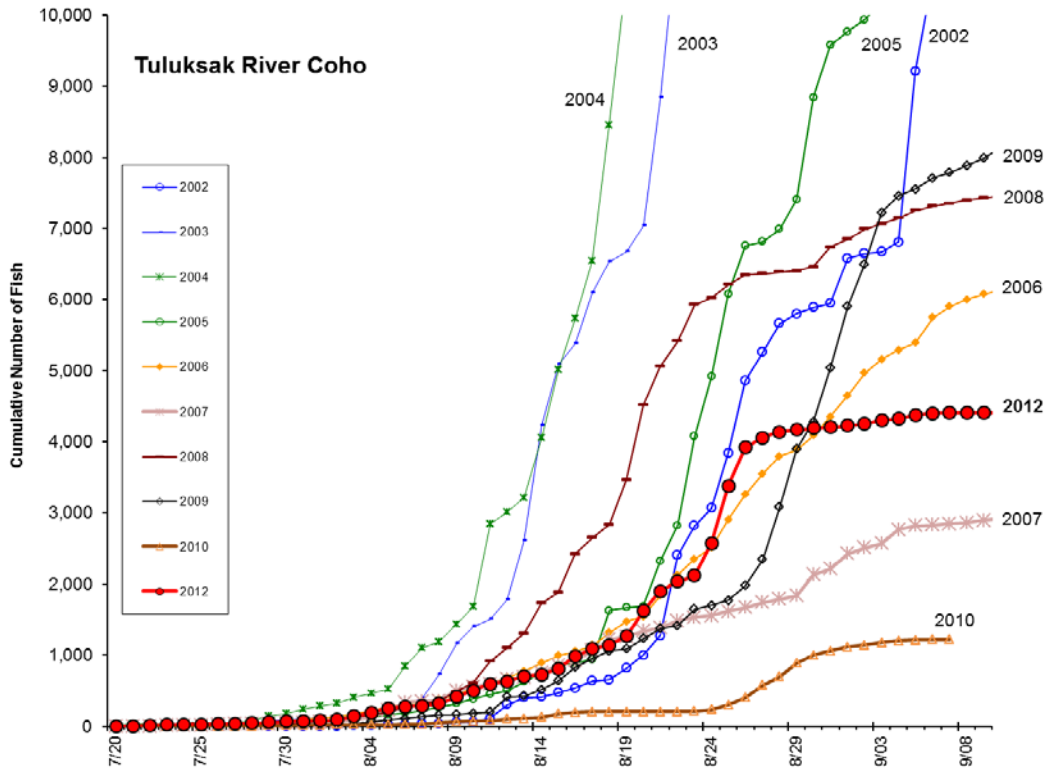
Kwethluk River weir

- Minimum escapement: 19,960 (actual counts, no estimates)
- ~94% monitored
- Escapement goal met (>19,000)
- Run timing appeared slightly later than average.



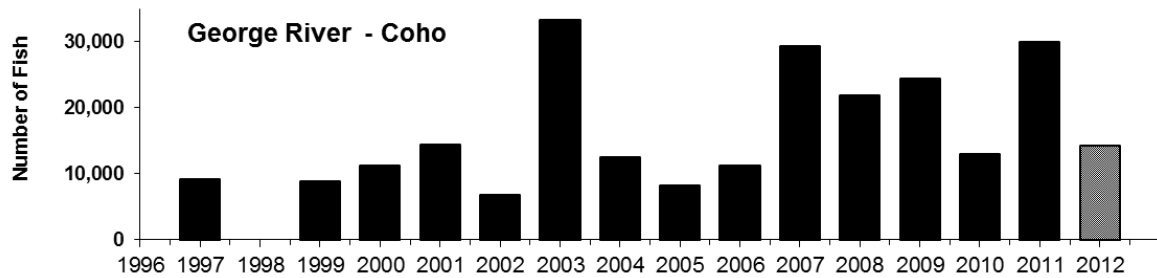
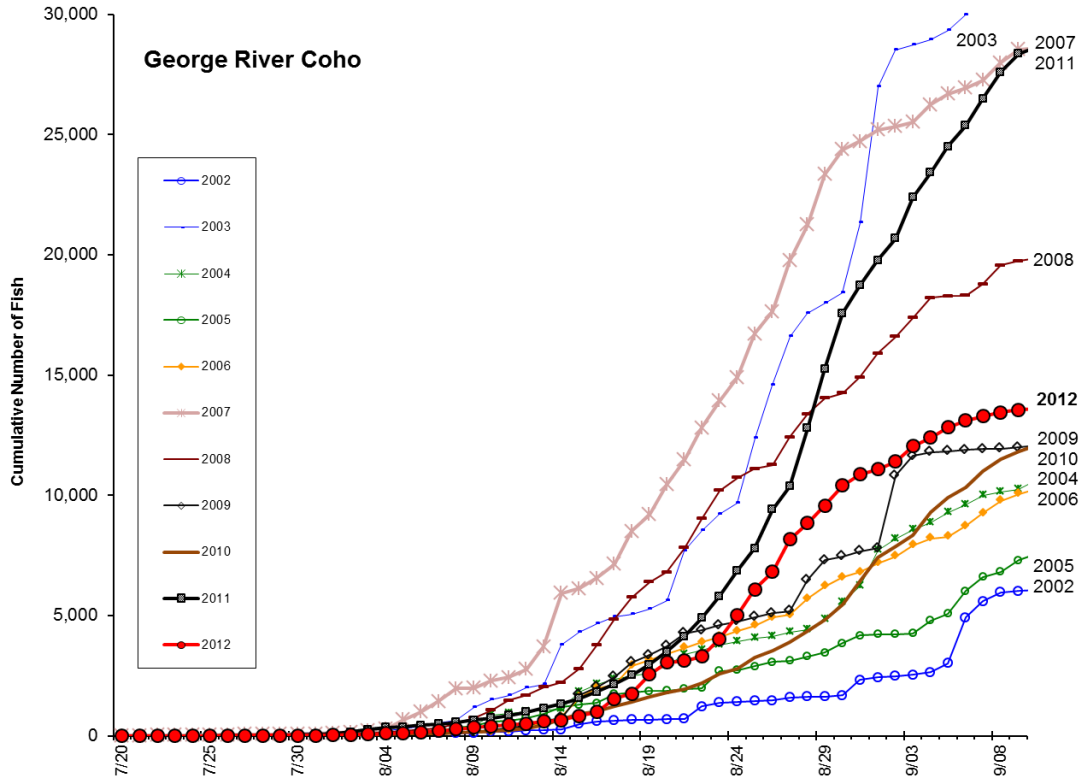
Tuluksak River weir

- 100% coverage
- The weir never operates through the entire coho run so escapement total (4,407) is only the minimum escapement based on actual counts (no estimates).



George River weir

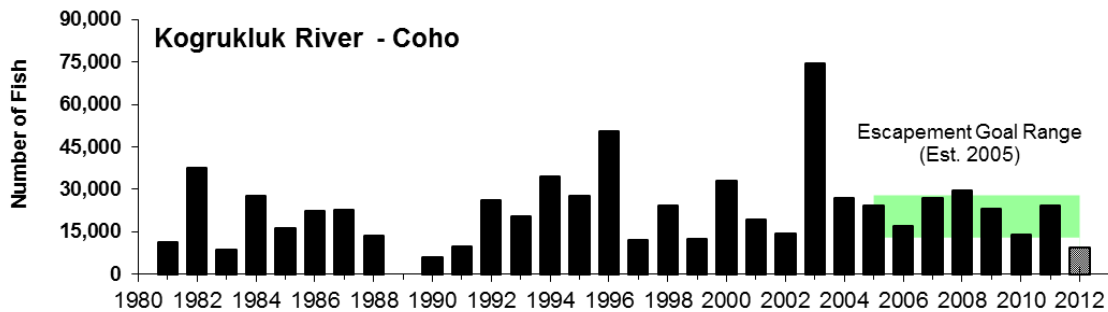
- Escapement without estimates: 14,202 coho salmon.
- ~95% of the run was monitored. Missed post peak of run.
- Run timing was about average to late and was slightly higher than average run size.
- Post season estimates will be made.

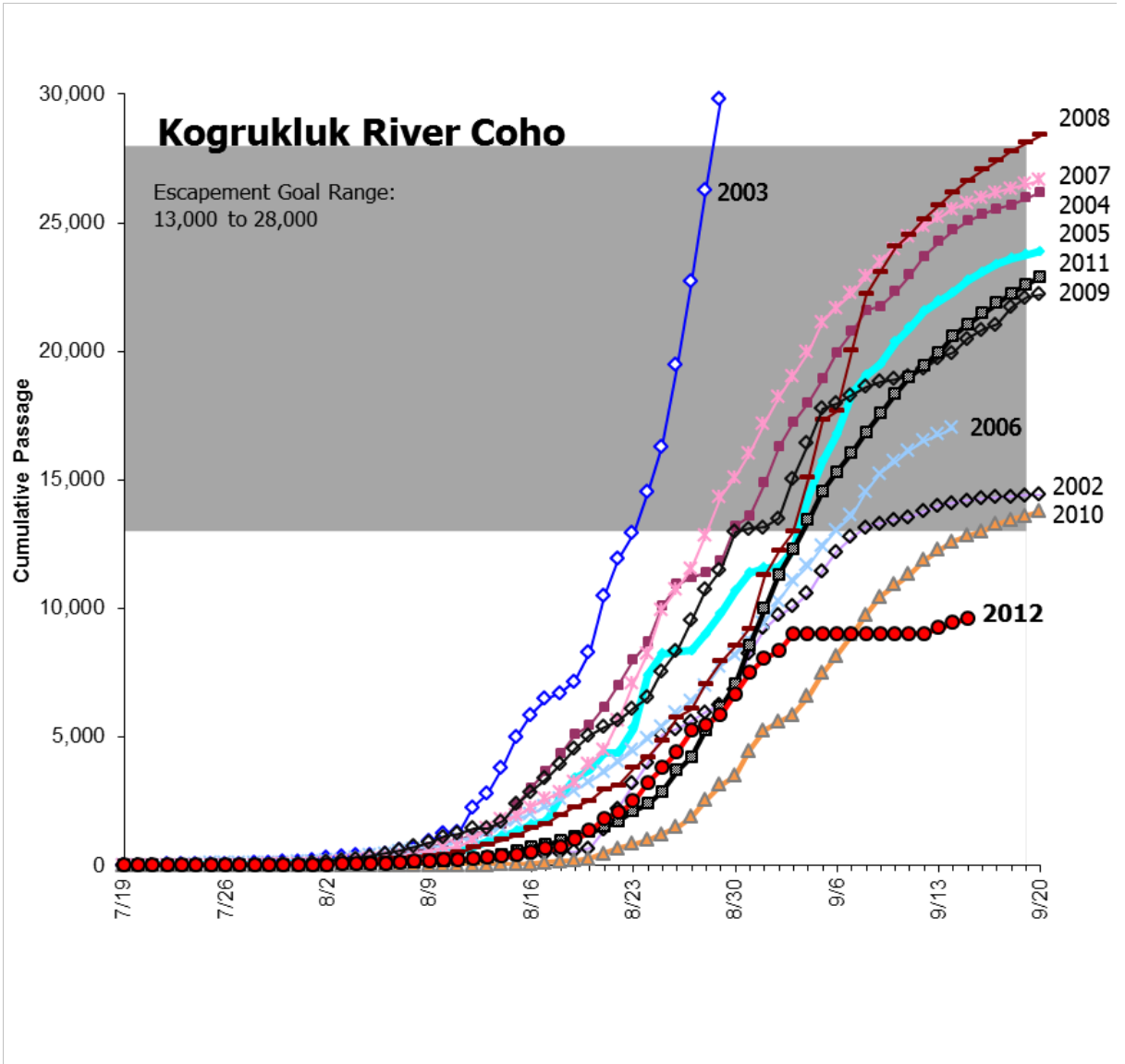


Kogrukluk River weir

- Escapement without estimates: 9,601 coho salmon.
- Weir went out of operation near the midpoint of the run.
- Based on late run timing, by September 3rd 44% of the run had passed the weir.
- Projected to meet escapement goal the entire week prior to the weir going out of operation based on average and late run timing.

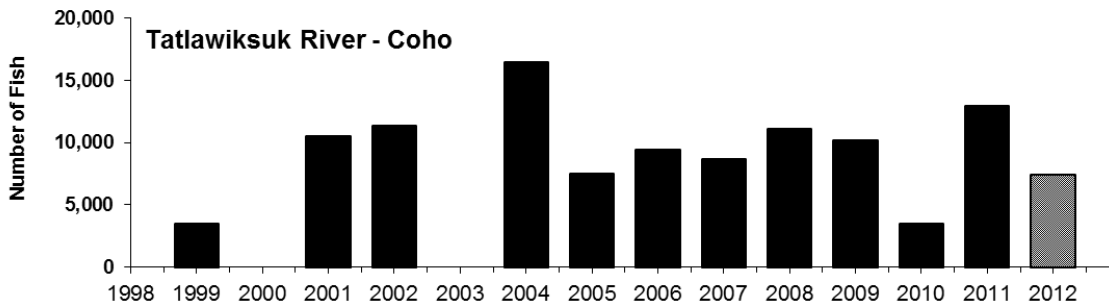
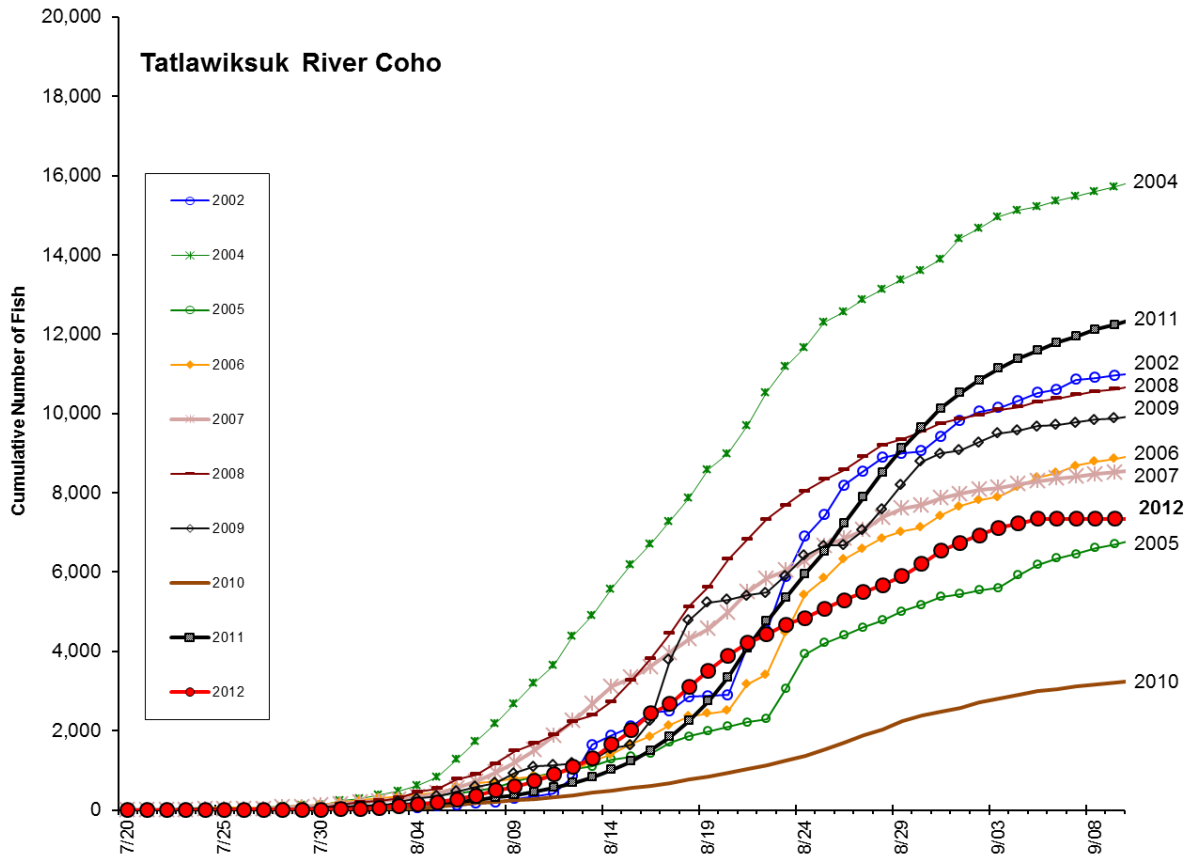
	Projections	
	Average	Late
28-Aug	15,642	27,683
29-Aug	15,264	25,680
30-Aug	15,740	26,058
31-Aug	16,046	24,003
1-Sep	15,784	21,303
2-Sep	15,254	20,753
3-Sep	15,493	20,573
Escapement goal range: 13,000 - 28,000		





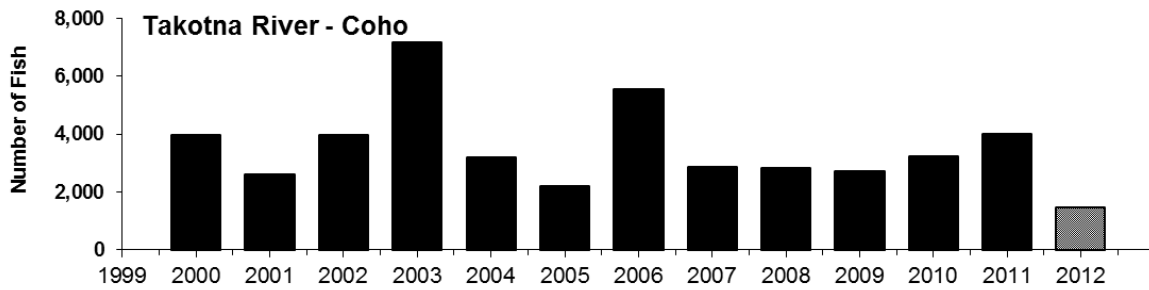
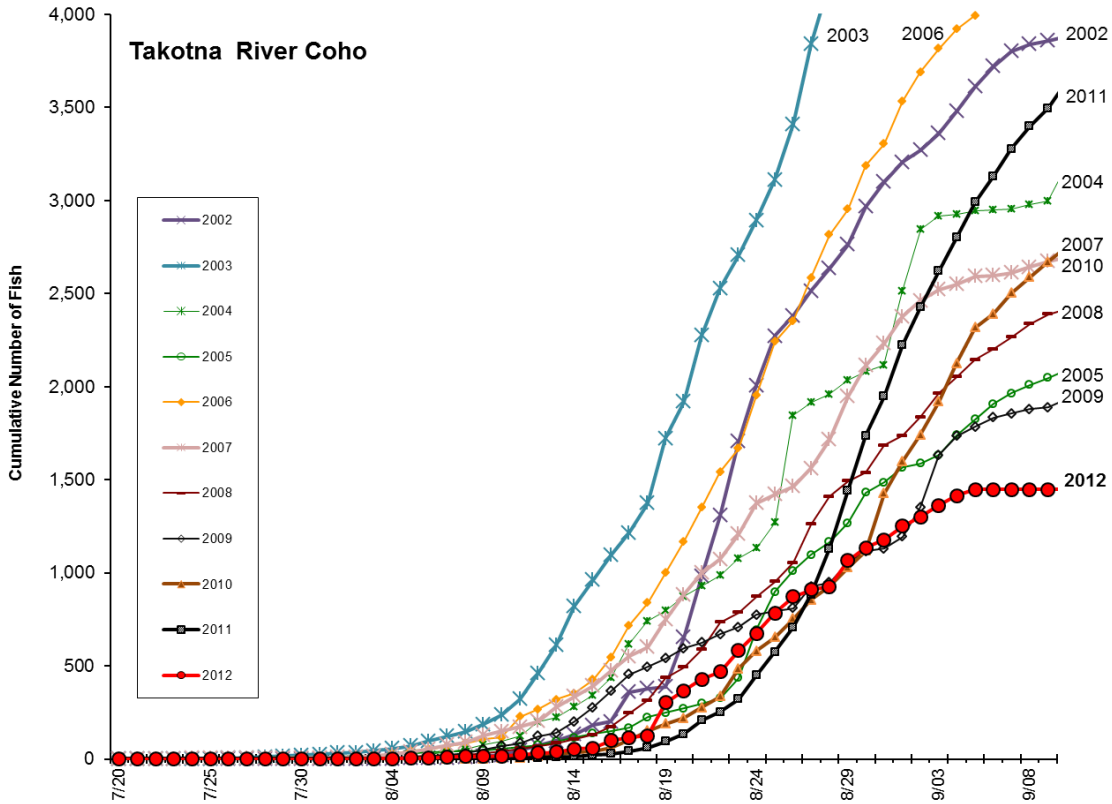
Tatlawiksuk River weir

- Escapement without estimates: 7,479 coho salmon.
- ~90% monitored. Missed post peak of run.
- Run timing was average to late.



Takotna River weir

- Escapement without estimates: 1,485
- ~82% monitored. Missed end of the run.
- Estimates will be done post-season.



COMMERCIAL CATCH REPORT:

District 1 Commercial Openings for 2012

Date	Subdistrict	Permits	Hours	Chinook		Sockeye		Chum		Coho	
				Catch	CPUE	Catch	CPUE	Catch	CPUE	Catch	CPUE
7/13/2012	1-B ^a	151	4	96	0.16	1,041	1.72	16,270	26.94	20	0.03
7/16/2012	1-A ^a	46	4	75	0.41	301	1.64	6,773	36.81	5	0.03
7/17/2012	1-B ^a	150	4	64	0.11	707	1.18	11,793	19.66	122	0.20
7/19/2012	1-A ^a	51	4	49	0.24	209	1.02	6,046	29.64	221	1.08
7/20/2012	1-B ^a	157	4	112	0.18	162	0.26	8,690	13.84	509	0.81
7/23/2012	1-A ^a	41	4	18	0.11	135	0.82	3,859	23.53	324	1.98
7/24/2012	1-B ^a	132	4	6	0.01	52	0.10	2,893	5.48	1,562	2.96
7/26/2012	1-A ^a	53	4	11	0.05	31	0.15	3,255	15.35	1,545	7.29
7/27/2012	1-B ^a	140	4	6	0.01	101	0.18	1,847	3.30	2,912	5.20
7/30/2012	1-A ^a	59	4	6	0.03	11	0.05	1,131	4.79	4,815	20.40
7/31/2012	1-B ^a	133	4	6	0.01	33	0.06	631	1.19	3,485	6.55
8/2/2012	1-A ^a	65	4	6	0.02	8	0.03	485	1.87	3,496	13.45
8/3/2012	1-B ^a	132	4	3	0.01	9	0.02	493	0.93	6,958	13.18
8/6/2012	1-A ^a	68	4	1	0.00	8	0.03	206	0.76	5,407	19.88
8/7/2012	1-B ^a	157	4	2	0.00	9	0.01	164	0.26	5,148	8.20
8/9/2012	1-A ^a	64	4	1	0.00	10	0.04	77	0.30	3,674	14.35
8/10/2012	1-B ^a	144	4	1	0.00	7	0.01	98	0.17	5,209	9.04
8/14/2012	1-A	80	4	-	0.00	5	0.02	80	0.25	7,568	23.65
8/16/2012	1-B	109	4	-	0.00	7	0.02	28	0.06	7,996	18.34
8/18/2012	1-A	89	6	-	0.00	2	0.00	48	0.09	11,017	20.63
8/21/2012	1-A & 1-B	164	6	-	0.00	4	0.00	21	0.02	8,315	8.45
8/24/2012	1-A	81	6	-	0.00	2	0.00	18	0.04	3,036	6.25
8/27/2012	1-A	74	6	-	0.00	3	0.01	18	0.04	3,047	6.86
Total				463		2,857		64,924		86,391	

Footnotes

^a All but six of the Chinook harvested during the commercial openings were kept as personal use.

^b In-season data is preliminary, subject to change.

Broad Scale view of Rolling Closure Sections, Kuskokwim River, Subsistence Chinook Salmon Management 2012

