

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: 8/12/2014

Time: 1:30pm

Place: Bethel

Time Called to Order:

Chair:

Time Adjourned:

ROLL CALL TO ESTABLISH QUORUM:

Upriver Elder:
Downriver Elder:
Commercial Fisher:
Lower River Subsistence:
Middle River Subsistence:
Upper River Subsistence:
Headwaters Subsistence:

QUORUM MET? Yes / No

Processor:
Member at Large:
Sport Fisher:
Western Interior RAC:
Y-K Delta RAC:
ADF&G:

INTRODUCTIONS:

INVOCATION:

APPROVAL OF AGENDA: *the agenda may be amended at this time.*

APPROVAL OF MINUTES: *Optional. ADF&G does not prepare official meeting minutes.*

PEOPLE TO BE HEARD:

CONTINUING BUSINESS:

1. Subsistence Reports:
 - a. Lowest River
 - b. ~~ONC Inseason Subsistence~~
 - c. Lower River
 - d. Middle River
 - Update on the ADF&G Creel Survey in the middle and upper Kuskokwim River.
 - e. KNA Inseason Subsistence
 - f. Upper River
 - g. 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. Intercept Fishery Report: optional
7. Weather Forecast:
8. Recommendation:
9. Motion for Discussion and Action:

OLD BUSINESS:

1. Update on the request to open a dipnet fishery all season long.
2. Discussion of the USFWS project proposal for a graduated-field electrode array.
3. Discussion of the current escapement goals.

NEW BUSINESS: N/A

COMMENTS FROM WORKING GROUP MEMBERS:

NEXT MEETING DATE: _____ Time: _____ Place: _____

Informational Packet

Information Packets *ARE*:

- **Intended to help inform Working Group discussions.**
- **To be viewed and used in context with Working Group meetings only.**

Packets *ARE NOT*:

- **To be viewed as standalone documents.**
- **A final say on fisheries management decisions.**

Please use this information responsibly:

Packet information is an incomplete snapshot of an ongoing discussion and changing conditions. Packet information should not be reproduced for any purpose other than to describe Working Group meeting discussions.

Misuse of Packet information can contribute to misunderstandings that can **cause harm to salmon users** and potentially **damage salmon resources**.

Ask Questions: ADF&G staff will be happy to answer biology and management questions. Please call **1-855-933-2433** to reach ADF&G Kuskokwim Area staff.

Attend Meetings: Each Working Group meeting is announced at least 48 hours prior to time and date of meeting. In addition, each meeting is recorded. Recordings can be found here:
http://www.adfg.alaska.gov/index.cfm?adfg=commercialbyarea_kuskokwim.kswg

Viewing the information packet while listening to meetings/recordings will provide a better understanding of the information presented in this packet.

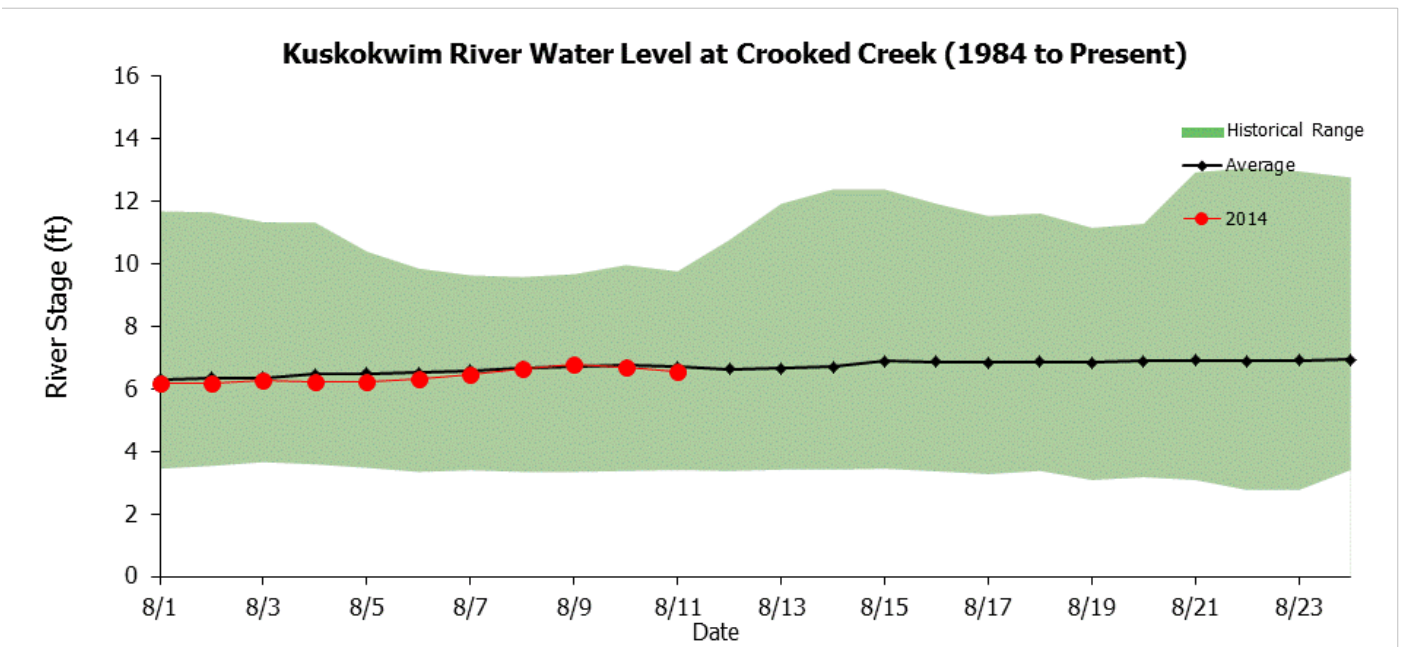
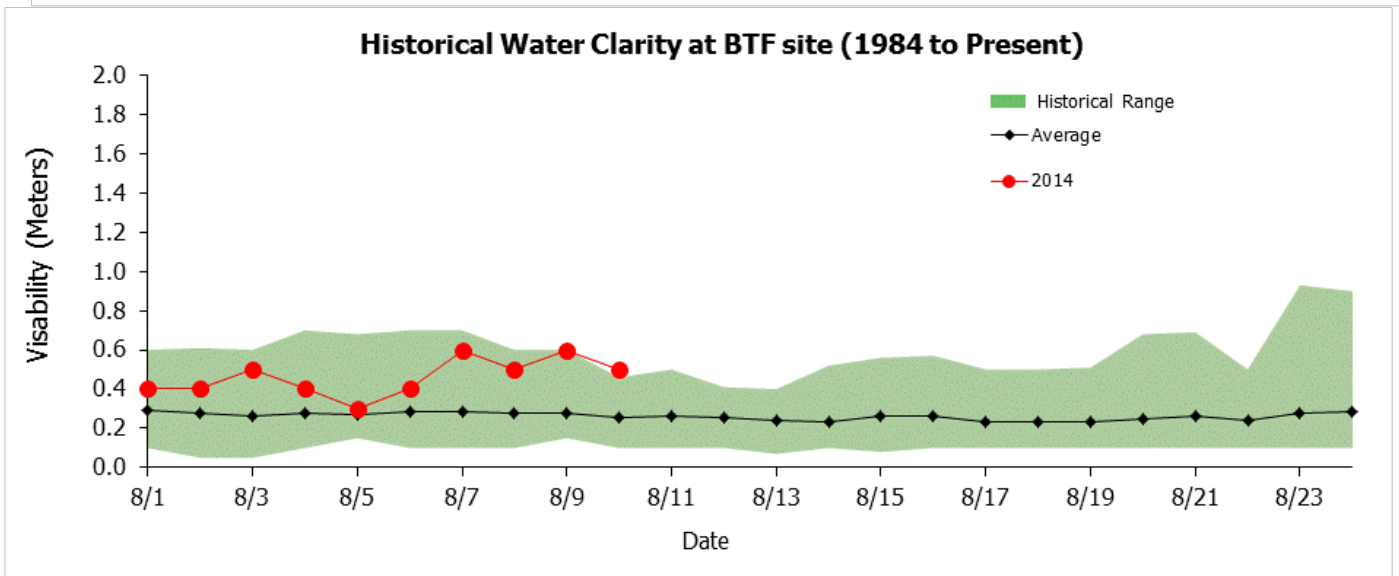
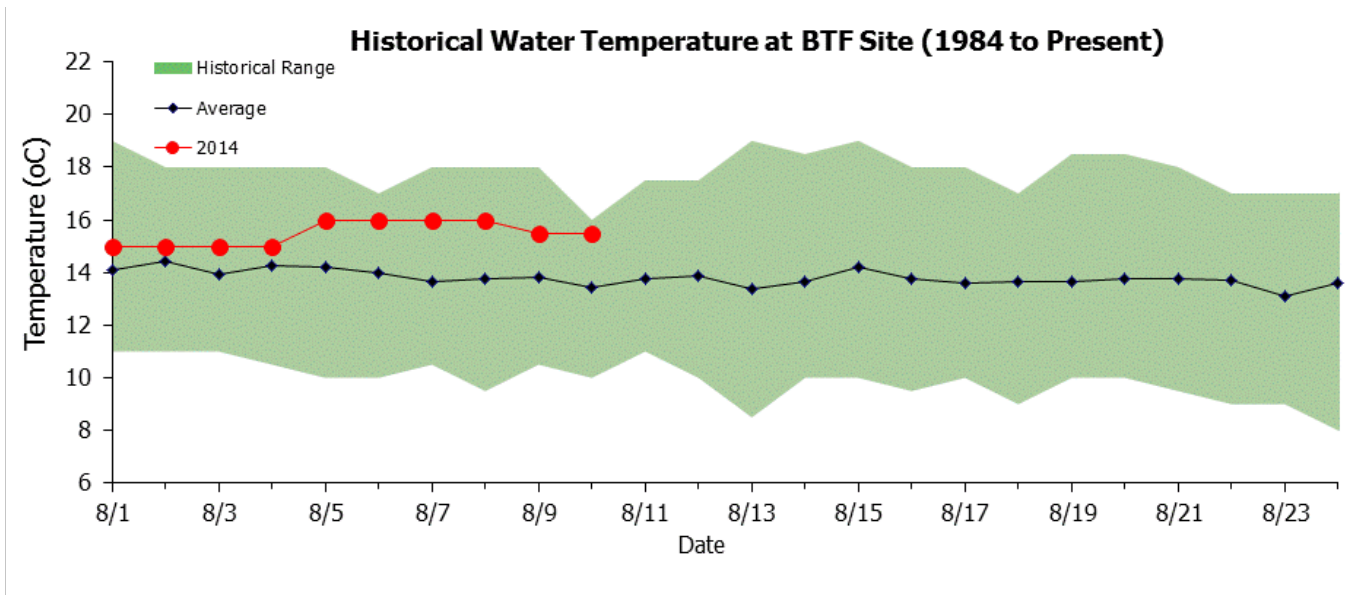
Thank you.

Jennifer Peeks

Chris Shelden

Working Group coordinators

Informational Packet



Informational Packet

Chinook Salmon Cumulative CPUE Index, Bethel Test Fishery

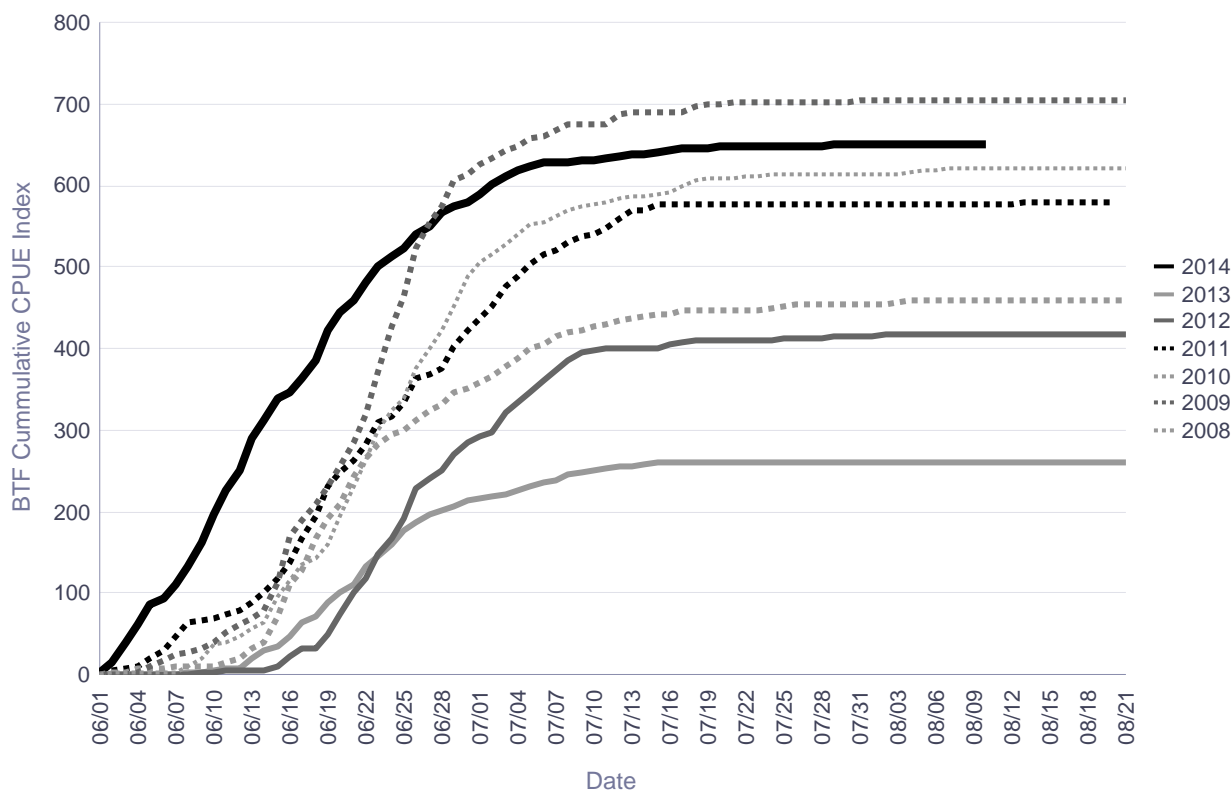
Bethel Test Fishery Chinook Salmon Cumulative CPUE Index

****2014 data are PRELIMINARY and not comparable to previous years due to subsistence fishing restrictions. ****

Date	CPUE						
	2008	2009	2010	2011	2012	2013	2014
08/02	613	705	455	577	417	261	650
08/03	613	705	457	577	418	261	650
08/04	616	705	458	577	418	261	650
08/05	619	705	458	577	418	261	650
08/06	619	705	458	577	418	261	650
08/07	621	705	458	577	418	261	650
08/08	621	705	458	577	418	261	650
08/09	621	705	458	577	418	261	650
08/10	621	705	458	577	418	261	650
08/11	621	705	458	577	418	261	
08/12	621	705	458	577	418	261	
08/13	621	705	458	579	418	261	
08/14	621	705	458	579	418	261	
08/15	621	705	458	579	418	261	
08/16	621	705	458	579	418	261	
08/17	621	705	458	579	418	261	
08/18	621	705	458	579	418	261	
08/19	621	705	458	579	418	261	
08/20	621	705	458	579	418	261	
08/21	621	705	458		418	261	

	2008	2009	2010	2011	2012	2013	2014
Season Total	621	705	458	579	418	261	

Chinook Salmon Cumulative CPUE Index Chart



Resulting escapement relative to New Kuskokwim River SEG (65,000 - 120,000)

2008 - Achieved (+) no restrictions

2009 - Achieved (+) no restrictions

2010 - Not Achieved (-) late tributary restrictions

2011 - Achieved (+) 15 days restrictions, minor reduction to subsistence harvest

2012 - Achieved (+) 35 days restrictions, significant reduction to subsistence harvest

2013 - Not Achieved (-) tributary restrictions and late main stem restrictions, significant reduction to subsistence harvest

Informational Packet

Chum Salmon Cumulative CPUE Index, Bethel Test Fishery

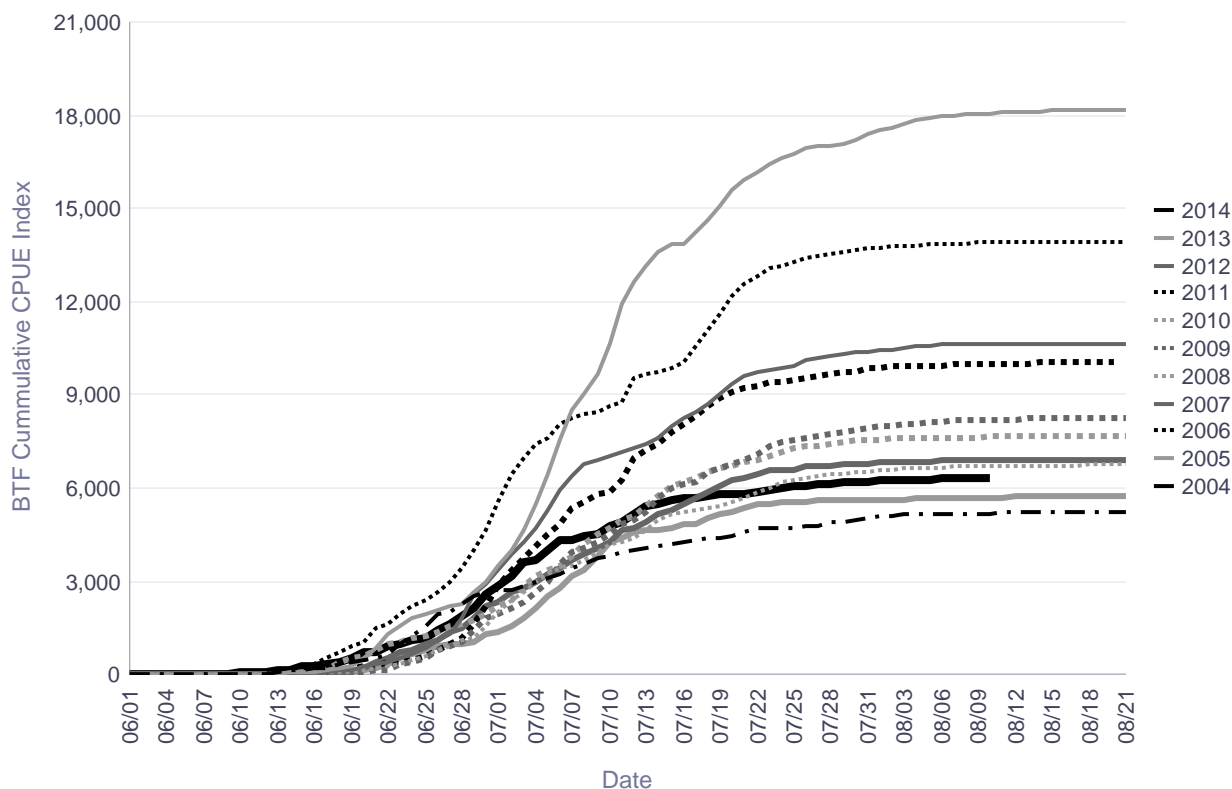
Bethel Test Fishery Chum Salmon Cumulative CPUE Index

****2014 data are PRELIMINARY and not comparable
to previous years due to subsistence fishing restrictions. ****

Date	CPUE										
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
08/02	5,102	17,599	13,762	10,439	6,601	8,017	7,582	9,895	6,826	5,627	6,246
08/03	5,132	17,690	13,788	10,522	6,614	8,050	7,591	9,906	6,848	5,642	6,255
08/04	5,140	17,827	13,815	10,560	6,624	8,088	7,600	9,920	6,856	5,657	6,272
08/05	5,147	17,916	13,833	10,582	6,642	8,116	7,611	9,937	6,865	5,677	6,277
08/06	5,150	17,949	13,852	10,609	6,660	8,148	7,620	9,952	6,868	5,687	6,286
08/07	5,161	17,998	13,872	10,613	6,677	8,168	7,627	9,980	6,871	5,689	6,292
08/08	5,177	18,038	13,883	10,620	6,685	8,177	7,631	9,993	6,873	5,694	6,299
08/09	5,182	18,062	13,885	10,627	6,692	8,184	7,637	10,011	6,873	5,694	6,305
08/10	5,192	18,064	13,902	10,634	6,694	8,198	7,645	10,014	6,875	5,701	6,315
08/11	5,197	18,076	13,910	10,637	6,699	8,205	7,647	10,014	6,875	5,703	
08/12	5,201	18,095	13,910	10,641	6,706	8,214	7,649	10,015	6,875	5,710	
08/13	5,211	18,099	13,912	10,648	6,711	8,229	7,649	10,020	6,877	5,712	
08/14	5,219	18,120	13,919	10,649	6,715	8,232	7,653	10,024	6,883	5,713	
08/15	5,226	18,139	13,921	10,653	6,717	8,232	7,655	10,024	6,887	5,715	
08/16	5,232	18,149	13,923	10,653	6,722	8,239	7,655	10,026	6,889	5,717	
08/17	5,240	18,152	13,924	10,653	6,731	8,243	7,655	10,026	6,889	5,718	
08/18	5,240	18,161	13,924	10,655	6,740	8,245	7,655	10,028	6,889	5,724	
08/19	5,240	18,166	13,924	10,655	6,740	8,247	7,655	10,028	6,889	5,729	
08/20	5,240	18,177	13,926	10,655	6,740	8,247	7,655	10,028	6,891	5,732	
08/21	5,243	18,192	13,927	10,655	6,740	8,249	7,655		6,891	5,734	

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Season Total	5,257	18,192	13,927	10,655	6,749	8,257	7,655	10,028	6,894	5,739	

Bethel Test Fishery, Chum Salmon Cumulative CPUE thru 08/21



Informational Packet

Sockeye Salmon Cumulative CPUE Index, Bethel Test Fishery

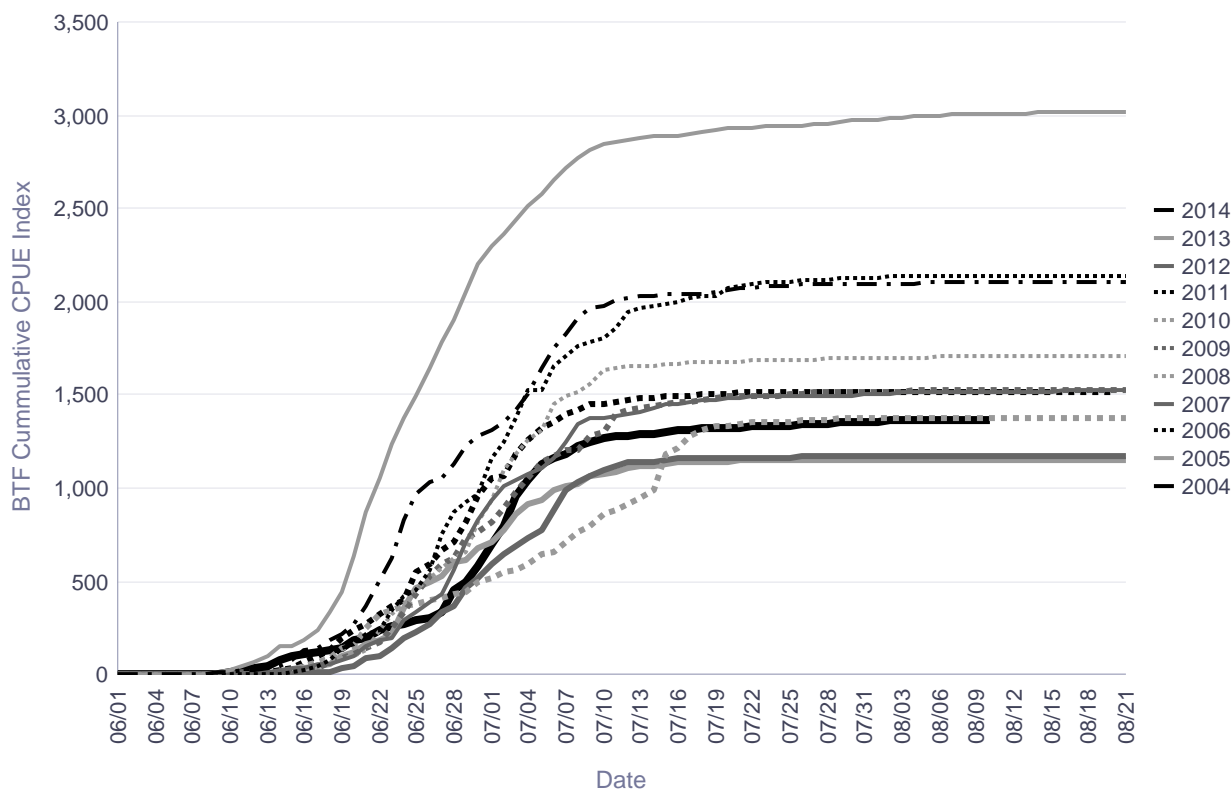
Bethel Test Fishery Sockeye Salmon Cumulative CPUE Index

****2014 data are PRELIMINARY and not comparable
to previous years due to subsistence fishing restrictions. ****

Date	CPUE										
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
08/02	2,091	2,983	2,136	1,508	1,696	1,513	1,373	1,511	1,170	1,148	1,360
08/03	2,096	2,987	2,136	1,510	1,698	1,515	1,373	1,511	1,170	1,148	1,360
08/04	2,099	2,990	2,136	1,512	1,700	1,520	1,373	1,515	1,170	1,148	1,362
08/05	2,103	2,997	2,138	1,514	1,702	1,520	1,373	1,515	1,171	1,148	1,362
08/06	2,103	2,999	2,139	1,516	1,709	1,520	1,373	1,515	1,171	1,148	1,362
08/07	2,103	3,004	2,139	1,516	1,709	1,520	1,373	1,515	1,171	1,148	1,362
08/08	2,103	3,008	2,139	1,516	1,709	1,520	1,373	1,516	1,171	1,148	1,362
08/09	2,103	3,008	2,139	1,516	1,709	1,520	1,375	1,518	1,171	1,148	1,362
08/10	2,103	3,010	2,139	1,516	1,709	1,520	1,375	1,518	1,171	1,148	1,363
08/11	2,103	3,010	2,139	1,517	1,709	1,520	1,375	1,518	1,171	1,148	
08/12	2,103	3,010	2,139	1,519	1,709	1,520	1,375	1,518	1,171	1,148	
08/13	2,103	3,010	2,139	1,519	1,709	1,520	1,375	1,518	1,171	1,148	
08/14	2,103	3,012	2,139	1,519	1,709	1,520	1,375	1,518	1,171	1,148	
08/15	2,103	3,012	2,139	1,519	1,709	1,520	1,375	1,518	1,171	1,148	
08/16	2,103	3,012	2,139	1,521	1,709	1,520	1,375	1,518	1,171	1,148	
08/17	2,103	3,012	2,139	1,521	1,709	1,520	1,375	1,518	1,171	1,148	
08/18	2,103	3,016	2,139	1,521	1,711	1,520	1,375	1,518	1,171	1,148	
08/19	2,104	3,016	2,139	1,521	1,711	1,520	1,375	1,518	1,171	1,148	
08/20	2,107	3,016	2,139	1,521	1,713	1,520	1,375	1,518	1,171	1,148	
08/21	2,107	3,019	2,139	1,521	1,713	1,520	1,375		1,171	1,148	

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Season Total	2,107	3,019	2,139	1,521	1,713	1,520	1,375	1,518	1,171	1,148	

Bethel Test Fishery, Sockeye Salmon Cumulative CPUE thru 08/21



Informational Packet

Coho Salmon Cumulative CPUE Index, Bethel Test Fishery

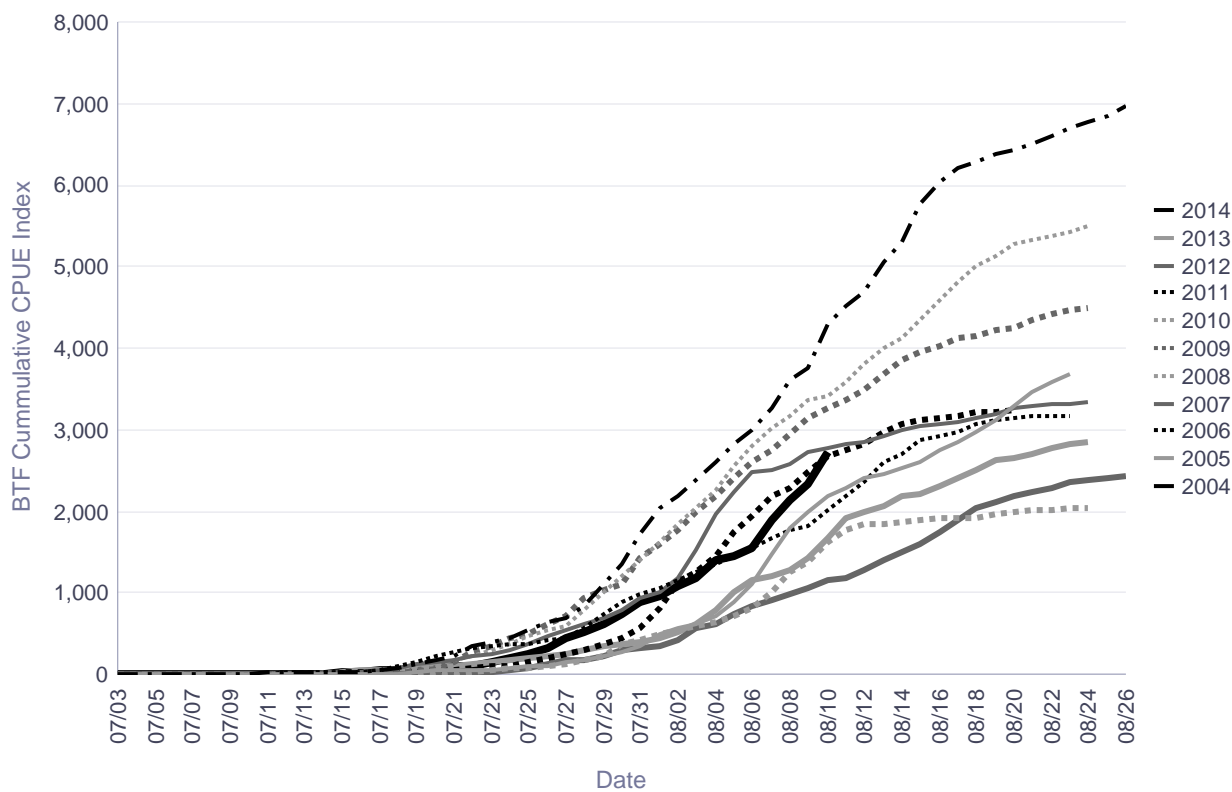
Bethel Test Fishery Coho Salmon Cumulative CPUE Index

****2014 data are PRELIMINARY and not comparable
to previous years due to subsistence fishing restrictions. ****

Date	CPUE										
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
08/02	2,178	561	1,158	1,172	1,838	1,777	534	1,125	432	515	1,073
08/03	2,394	623	1,250	1,520	2,030	2,000	583	1,251	559	617	1,191
08/04	2,605	716	1,344	1,976	2,254	2,190	636	1,453	620	785	1,391
08/05	2,824	893	1,447	2,234	2,560	2,418	716	1,748	743	1,019	1,448
08/06	2,987	1,113	1,560	2,491	2,807	2,594	807	1,931	828	1,164	1,552
08/07	3,261	1,467	1,668	2,506	3,032	2,761	1,015	2,175	906	1,208	1,890
08/08	3,600	1,784	1,767	2,590	3,164	2,946	1,245	2,274	986	1,277	2,143
08/09	3,745	1,995	1,827	2,719	3,374	3,132	1,374	2,487	1,050	1,416	2,338
08/10	4,299	2,175	2,019	2,763	3,403	3,266	1,620	2,689	1,152	1,665	2,723
08/11	4,509	2,287	2,192	2,822	3,575	3,363	1,766	2,756	1,179	1,908	
08/12	4,698	2,407	2,368	2,851	3,803	3,485	1,835	2,830	1,291	2,000	
08/13	5,061	2,445	2,599	2,931	3,992	3,672	1,845	2,977	1,401	2,056	
08/14	5,294	2,530	2,705	2,984	4,118	3,865	1,876	3,067	1,498	2,177	
08/15	5,762	2,611	2,872	3,054	4,337	3,941	1,894	3,107	1,599	2,203	
08/16	6,030	2,739	2,920	3,078	4,585	4,020	1,906	3,151	1,735	2,307	
08/17	6,197	2,839	2,982	3,097	4,818	4,116	1,918	3,166	1,888	2,411	
08/18	6,276	2,965	3,064	3,142	4,999	4,157	1,918	3,209	2,037	2,504	
08/19	6,388	3,125	3,122	3,199	5,136	4,212	1,956	3,220	2,120	2,616	
08/20	6,436	3,295	3,141	3,254	5,275	4,257	1,991	3,231	2,186	2,661	
08/21	6,500	3,466	3,159	3,293	5,324	4,337	2,021		2,245	2,710	

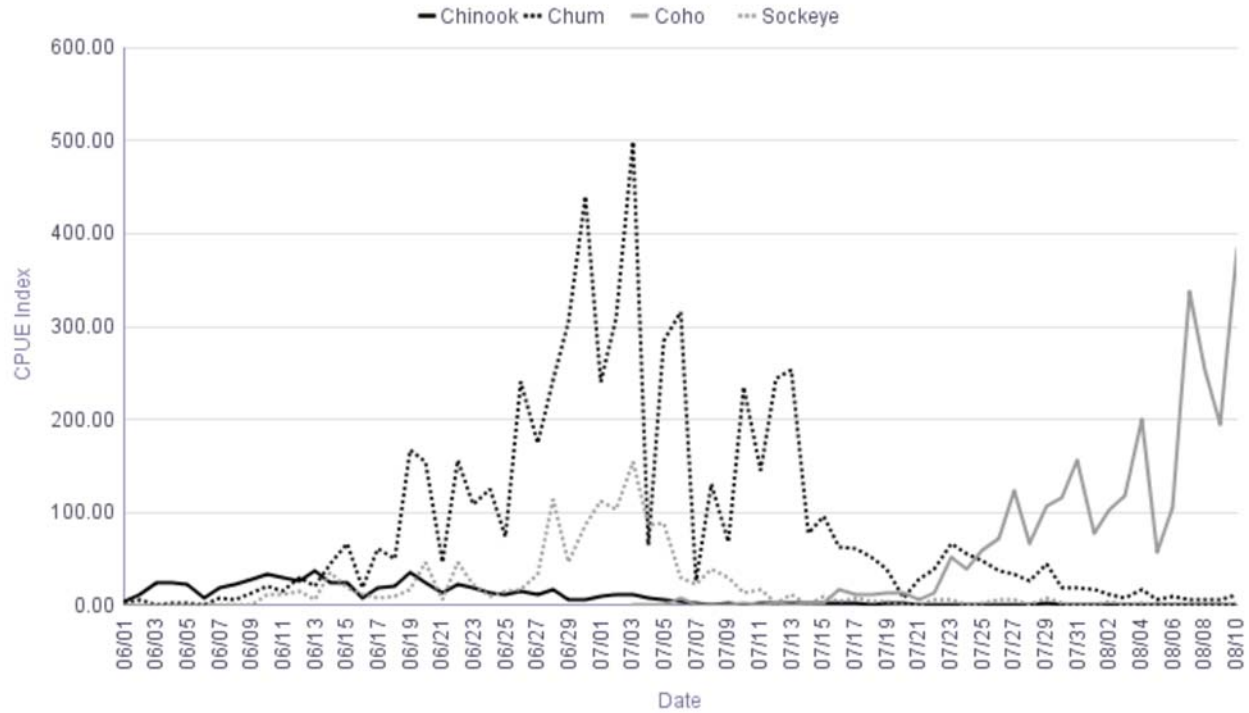
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Season Total	7,183	3,680	3,163	3,329	5,497	4,495	2,029	3,231	2,439	2,857	

Bethel Test Fishery, Coho Salmon Cumulative CPUE thru 8/26



Informational Packet

Bethel Test Fishery Daily CPUE 2014 All Species



Informational Packet

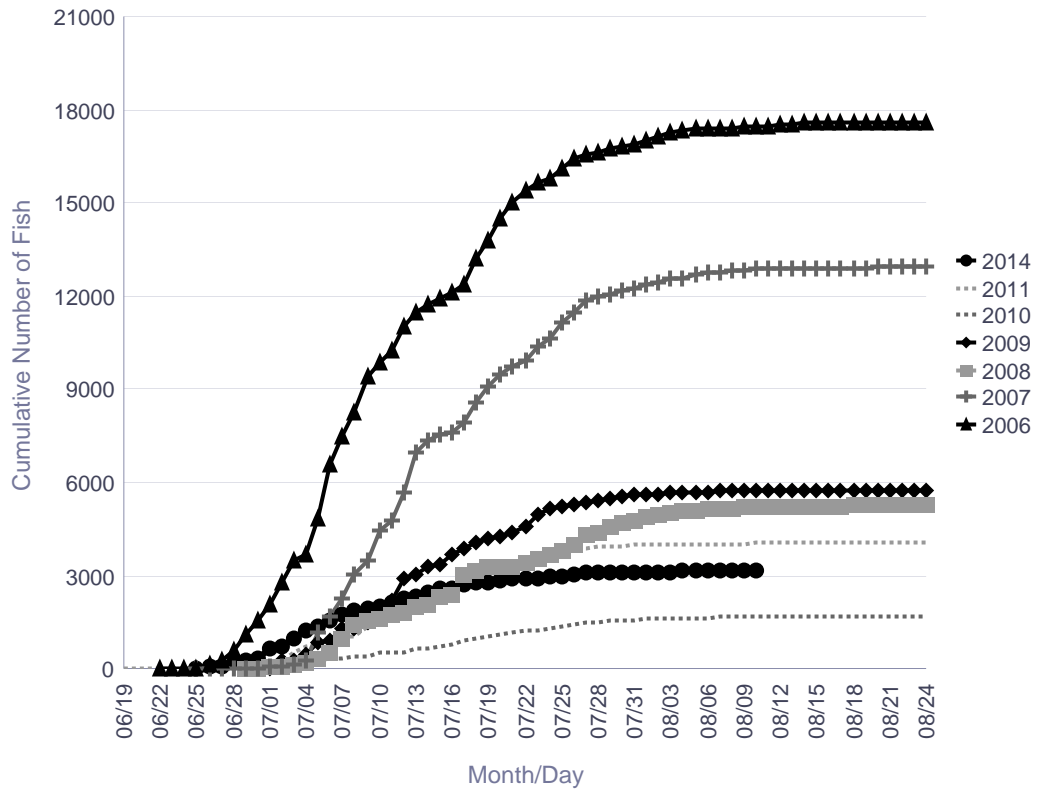
Kwethluk River Salmon Monitoring Project Cumulative Daily Passage of Chinook Salmon

Cumulative Daily Passage										
Date	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
08/08		17,418	12,828	5,179	5,712	1,658	4,024			3,159
08/09		17,446	12,849	5,199	5,713	1,660	4,030			3,163
08/10		17,470	12,860	5,214	5,716	1,661	4,035			3,165
08/11		<u>17,488</u>	<u>12,865</u>	<u>5,230</u>	<u>5,719</u>	<u>1,662</u>	<u>4,038</u>			
08/12		17,508	12,871	5,242	5,724	1,665	4,041			
08/13		17,523	12,880	5,242	5,727	1,666	4,047			
08/14		17,556	12,885	5,246	5,730	1,666	4,050			
08/15		17,565	12,891	5,248	5,733	1,667	4,052			

Escapement Goal Range: 4,100 to 7,500
Highlighted years below are when escapement goal was achieved or exceeded.

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Season Total		<u>17,619</u>	<u>12,927</u>	<u>5,276</u>	<u>5,744</u>	1,668	4,079			

Kwethluk River Chinook



There are no comments for the past three days.

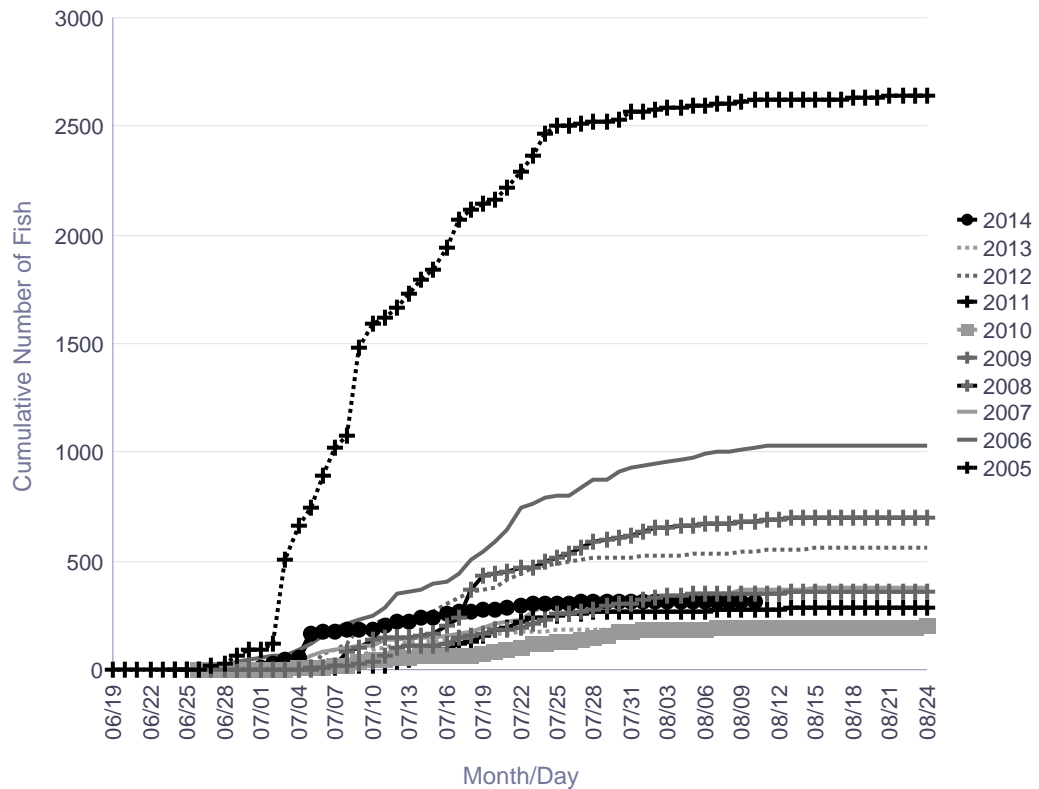
Informational Packet

Tuluksak River Salmon Monitoring Project Cumulative Daily Passage of Chinook Salmon

Cumulative Daily Passage										
Date	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
08/08	2,606	1,005	351	676	351	191	277	538	190	316
08/09	2,614	1,016	367	680	351	192	278	544	190	317
08/10	2,619	1,023	371	684	353	194	279	548	190	318
08/11	<u>2,623</u>	<u>1,027</u>	<u>372</u>	<u>687</u>	<u>354</u>	<u>194</u>	<u>279</u>	<u>551</u>	<u>190</u>	
08/12	2,624	1,030	372	694	354	197	281	555	190	
08/13	2,624	1,031	372	696	356	197	282	557	191	
08/14	2,625	1,032	373	697	356	197	282	557	191	
08/15	2,626	1,032	374	699	357	197	282	558	192	

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Season Total	2,653	1,043	374	701	362	201	284	560	193	

Tuluksak River Chinook



There are no comments for the past three days.

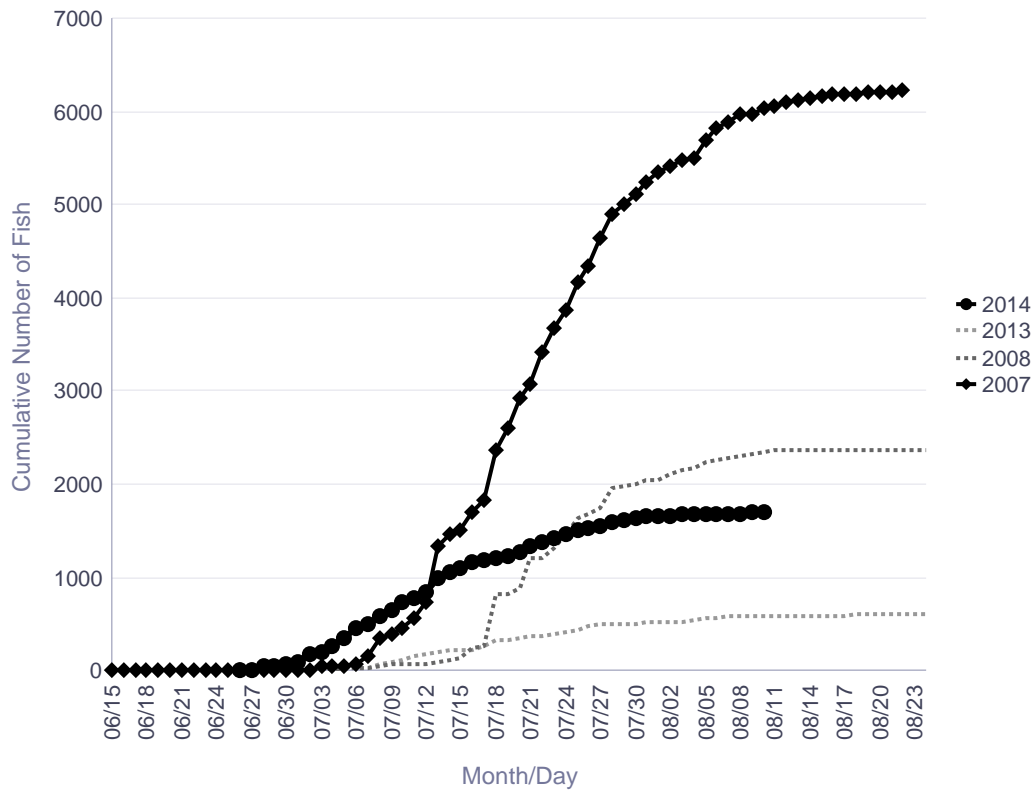
Informational Packet

Salmon River (Aniak) Weir Historical Cumulative Daily Passage of Chinook Salmon

	Cumulative Daily Passage									
Date	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
08/08			5,959	2,309					583	1,687
08/09			5,978	2,329					585	1,690
08/10			6,030	2,343					585	1,694
08/11			6,064	2,354					589	
08/12			6,090	2,356					590	
08/13			6,129	2,359					591	
08/14			6,147	2,363					592	
08/15			6,162	2,366					593	

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Season Total			6,220	2,376					598	

Salmon River (Aniak) Chinook



Date	Comments
8/8/2014	Out of operation due to issues at the weir.
8/9/2014	Partial day. Fish tight at 130pm.

Informational Packet

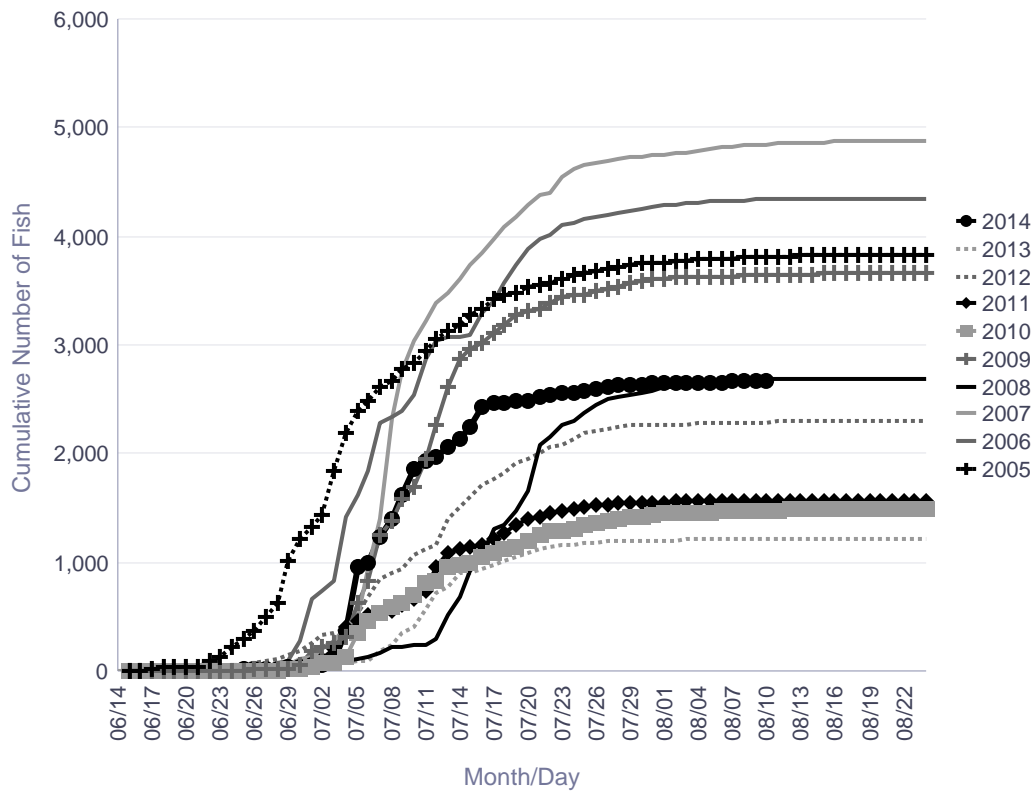
George River Weir Historical Cumulative Daily Passage of Chinook Salmon

	Cumulative Daily Passage									
Date	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
08/08	3,807	4,333	4,836	2,671	3,639	1,472	1,564	2,287	1,211	2,663
08/09	3,807	4,337	4,836	2,678	3,639	1,474	1,565	2,289	1,212	2,665
08/10	3,814	4,339	4,847	2,681	3,644	1,475	1,566	2,292	1,212	2,665
08/11	<u>3,816</u>	<u>4,341</u>	<u>4,854</u>	<u>2,686</u>	<u>3,647</u>	<u>1,480</u>	<u>1,567</u>	<u>2,297</u>	<u>1,213</u>	
08/12	3,818	4,346	4,860	2,688	3,648	1,484	1,568	2,299	1,215	
08/13	3,820	4,346	4,860	2,688	3,652	1,487	1,569	2,300	1,215	
08/14	3,834	4,346	4,867	2,689	3,654	1,492	1,570	2,300	1,215	
08/15	3,835	4,347	4,868	2,690	3,656	1,494	1,571	2,300	1,215	

Escapement Goal Range: 1,800 to 3,300
 Highlighted years below are when escapement goal was achieved or exceeded.

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Season Total	<u>3,845</u>	<u>4,355</u>	<u>4,883</u>	<u>2,698</u>	<u>3,663</u>	1,500	1,571	<u>2,302</u>	1,219	

George River Chinook



Date	Comments
8/10/2014	Escapement goal was met on July 20th.

Informational Packet

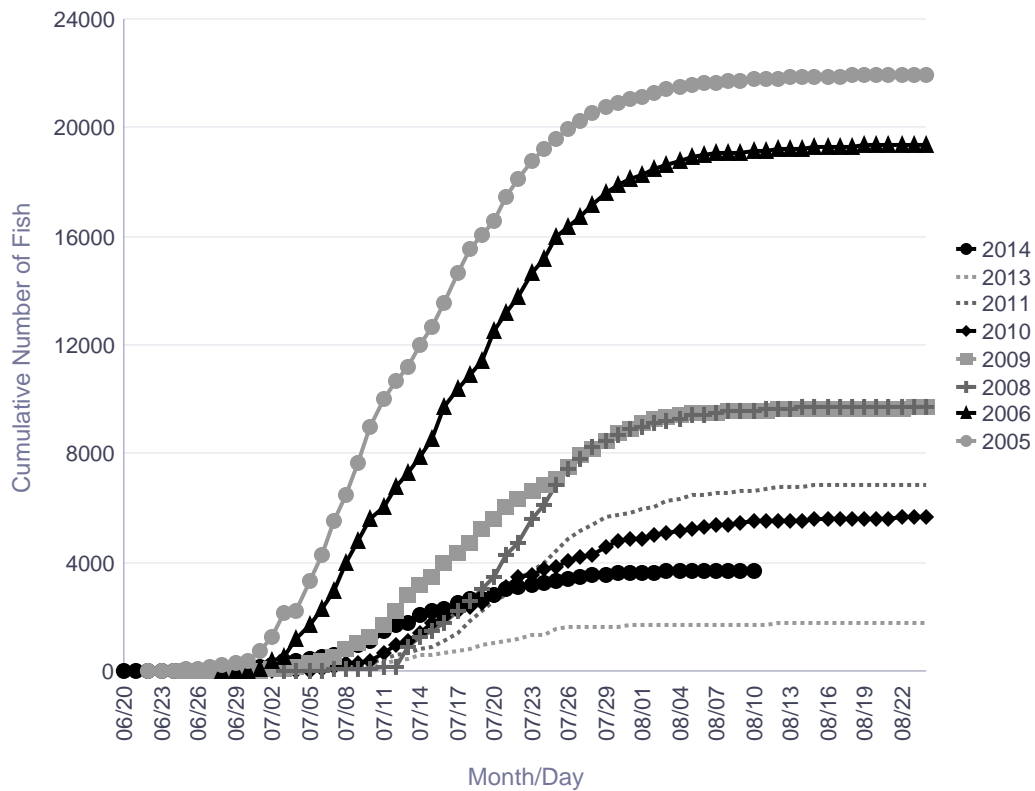
Kogrukluk River Weir Historical Cumulative Daily Passage of Chinook Salmon

	Cumulative Daily Passage									
Date	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
08/08	21,707	19,075		9,548	9,555	5,393	6,573		1,716	3,692
08/09	21,737	19,092		9,584	9,578	5,458	6,618		1,724	3,698
08/10	21,769	19,114		9,609	9,600	5,504	6,662		1,731	3,703
08/11	<u>21,783</u>	<u>19,153</u>		<u>9,637</u>	<u>9,611</u>	<u>5,519</u>	<u>6,710</u>		<u>1,737</u>	
08/12	21,809	19,182		9,661	9,628	5,561	6,750		1,742	
08/13	21,842	19,209		9,676	9,633	5,561	6,784		1,747	
08/14	21,858	19,234		9,690	9,641	5,565	6,812		1,751	
08/15	21,871	19,257		9,698	9,647	5,569	6,834		1,755	

Escapement Goal Range: 4,800 to 8,800
 Highlighted years below are when escapement goal was achieved or exceeded.

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Season Total	<u>21,999</u>	<u>19,414</u>		<u>9,730</u>	<u>9,701</u>	<u>5,693</u>	<u>6,890</u>		1,772	

Kogrukluk River Chinook



There are no comments for the past three days.

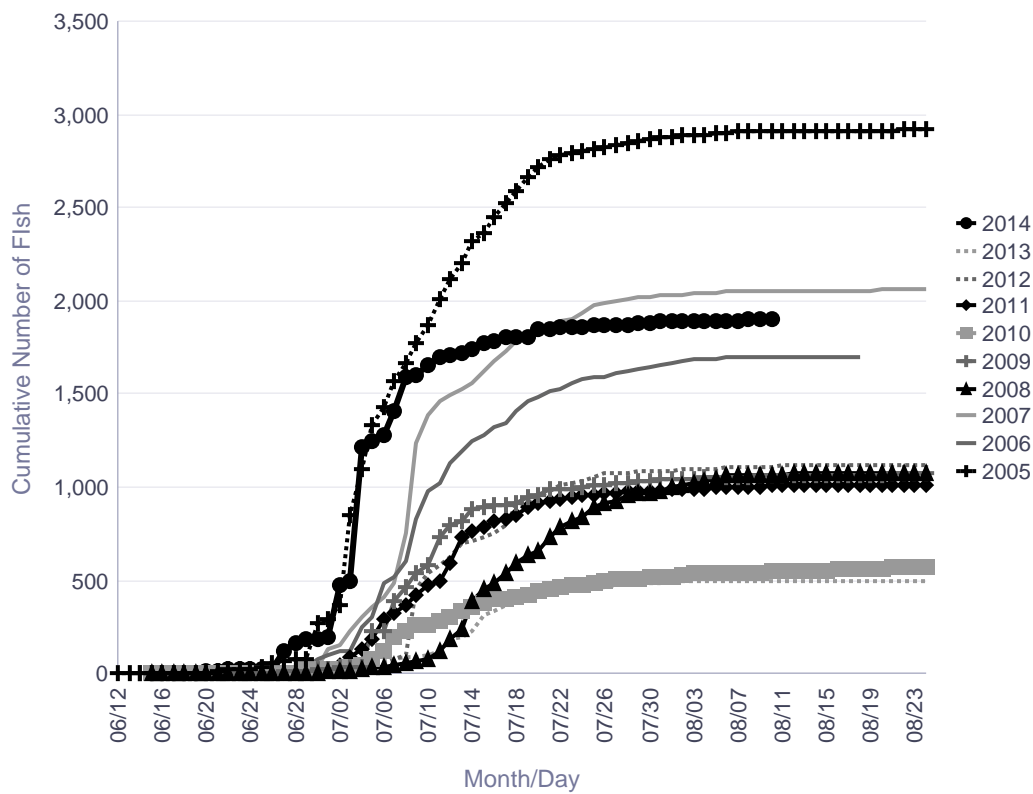
Informational Packet

Tatlawiksuk River Weir Historical Cumulative Daily Passage of Chinook Salmon

	Cumulative Daily Passage									
Date	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
08/08	2,907	1,698	2,051	1,064	1,058	541	1,002	1,110	492	1,896
08/09	2,907	1,699	2,053	1,066	1,061	543	1,004	1,110	494	1,896
08/10	2,907	1,700	2,054	1,066	1,062	544	1,006	1,111	494	1,896
08/11	2,907	1,700	2,055	1,068	1,063	546	1,008	1,113	494	
08/12	2,907	1,700	2,055	1,070	1,063	548	1,009	1,113	495	
08/13	2,908	1,700	2,056	1,070	1,063	550	1,010	1,113	495	
08/14	2,909	1,700	2,056	1,070	1,064	552	1,011	1,115	495	
08/15	2,911	1,700	2,056	1,070	1,065	554	1,012	1,115	495	

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Season Total	2,920	1,700	2,061	1,071	1,071	569	1,014	1,116	495	

Tatlawiksuk River Chinook



There are no comments for the past three days.

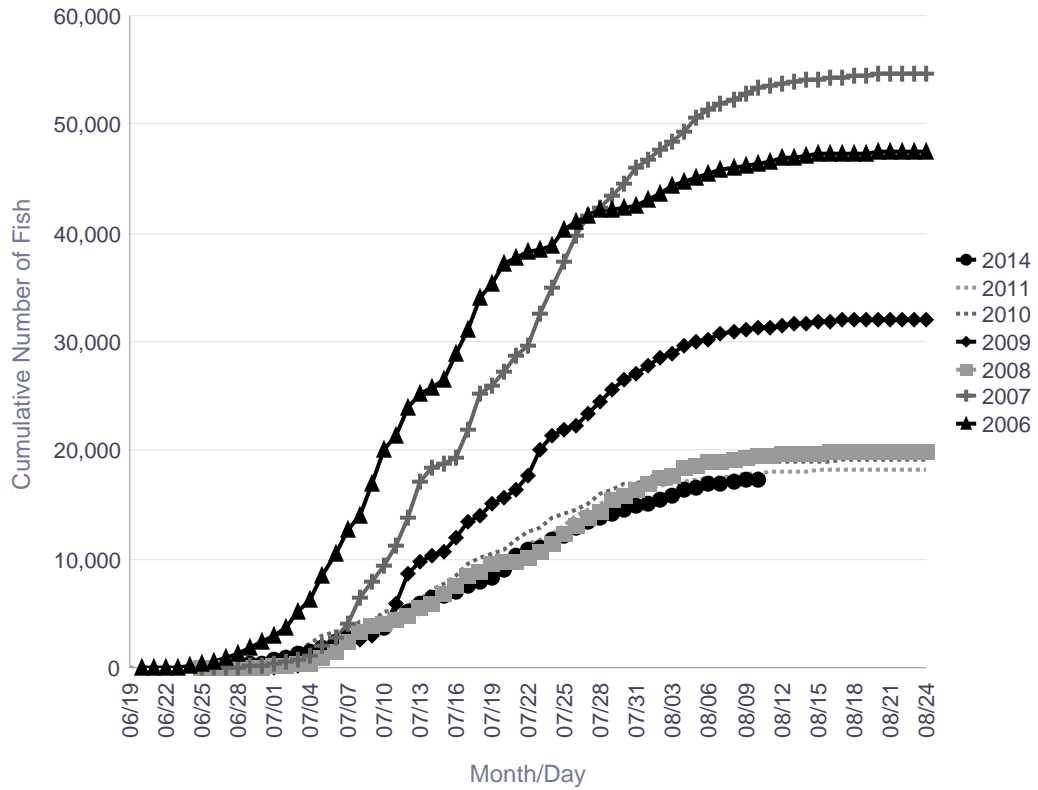
Informational Packet

Kwethluk River Salmon Monitoring Project Cumulative Daily Passage of Chum Salmon

Cumulative Daily Passage										
Date	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
08/08		45,927	52,349	19,124	31,012	18,840	17,706			17,140
08/09		46,170	52,841	19,338	31,102	18,907	17,819			17,302
08/10		46,399	53,339	19,467	31,251	18,938	17,904			17,385
08/11		<u>46,626</u>	<u>53,546</u>	<u>19,566</u>	<u>31,377</u>	<u>18,955</u>	<u>17,977</u>			
08/12		46,883	53,718	19,629	31,551	18,977	18,029			
08/13		47,023	53,999	19,660	31,619	18,996	18,076			
08/14		47,164	54,111	19,757	31,727	19,028	18,125			
08/15		47,265	54,166	19,782	31,854	19,039	18,155			

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Season Total		47,491	54,913	20,030	32,191	19,235	18,329			

Kwethluk River Chum



There are no comments for the past three days.

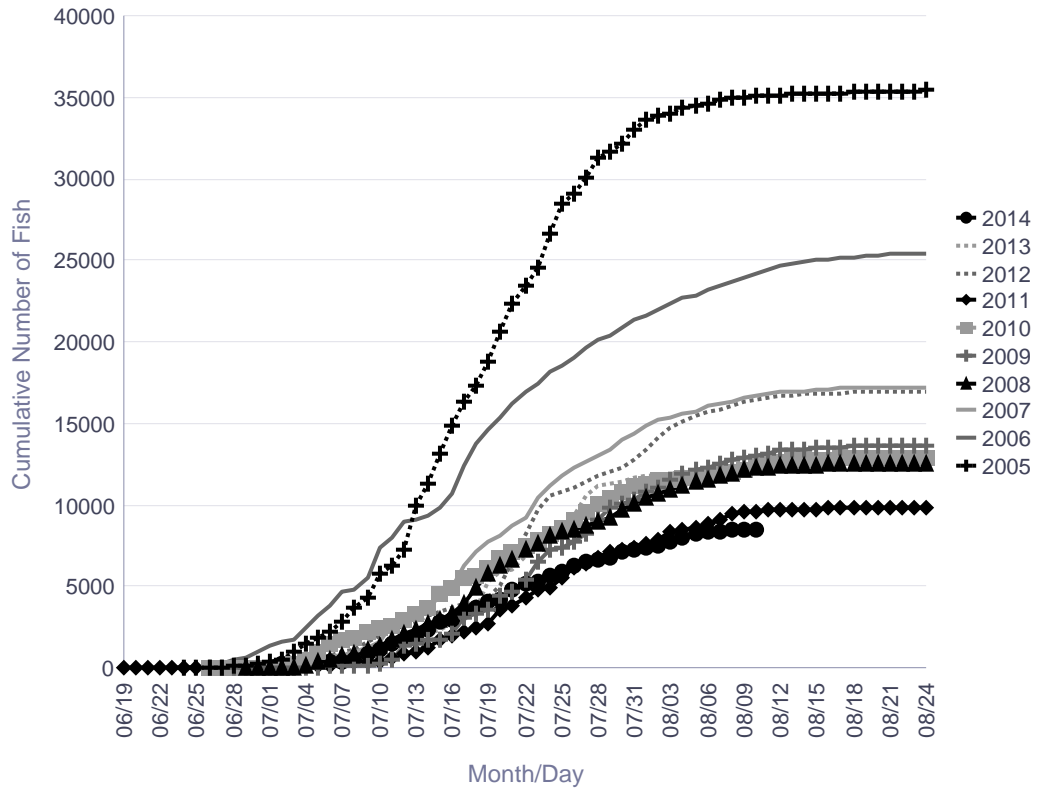
Informational Packet

Tuluksak River Salmon Monitoring Project Cumulative Daily Passage of Chum Salmon

Cumulative Daily Passage										
Date	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
08/08	34,923	23,702	16,384	11,897	12,788	12,061	9,452	16,085	12,320	8,423
08/09	34,999	23,925	16,614	12,102	12,888	12,209	9,553	16,300	12,338	8,454
08/10	35,046	24,143	16,755	12,226	13,022	12,408	9,593	16,510	12,386	8,508
08/11	<u>35,102</u>	<u>24,452</u>	<u>16,858</u>	<u>12,316</u>	<u>13,139</u>	<u>12,574</u>	<u>9,644</u>	<u>16,578</u>	<u>12,423</u>	
08/12	35,120	24,688	16,901	12,371	13,329	12,679	9,690	16,671	12,479	
08/13	35,187	24,828	16,915	12,400	13,374	12,721	9,709	16,743	12,522	
08/14	35,208	24,932	16,939	12,425	13,439	12,747	9,726	16,783	12,559	
08/15	35,231	25,005	17,028	12,453	13,499	12,789	9,753	16,812	12,591	

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Season Total	35,696	25,652	17,286	12,550	13,671	13,042	9,828	16,981	12,911	

Tuluksak River Chum



There are no comments for the past three days.

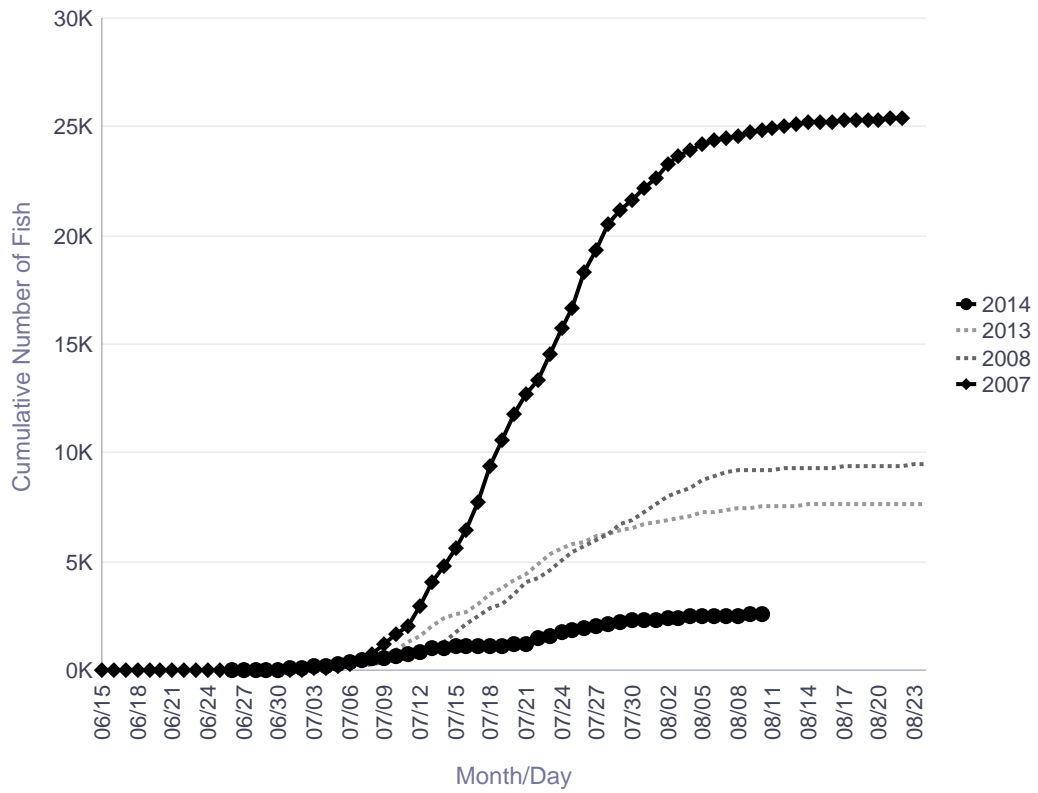
Informational Packet

Salmon River (Aniak) Weir Historical Cumulative Daily Passage of Chum Salmon

	Cumulative Daily Passage									
Date	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
08/08			24,599	9,165					7,465	2,517
08/09			24,712	9,224					7,497	2,548
08/10			24,842	9,233					7,519	2,556
08/11			24,949	9,242					7,550	
08/12			25,036	9,261					7,570	
08/13			25,135	9,293					7,600	
08/14			25,187	9,298					7,615	
08/15			25,223	9,307					7,629	

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Season Total			25,379	9,459					7,666	

Salmon River (Aniak) Chum



Date	Comments
8/8/2014	Out of operation due to issues at the weir.
8/9/2014	Partial day. Weir back in operation at 130pm.

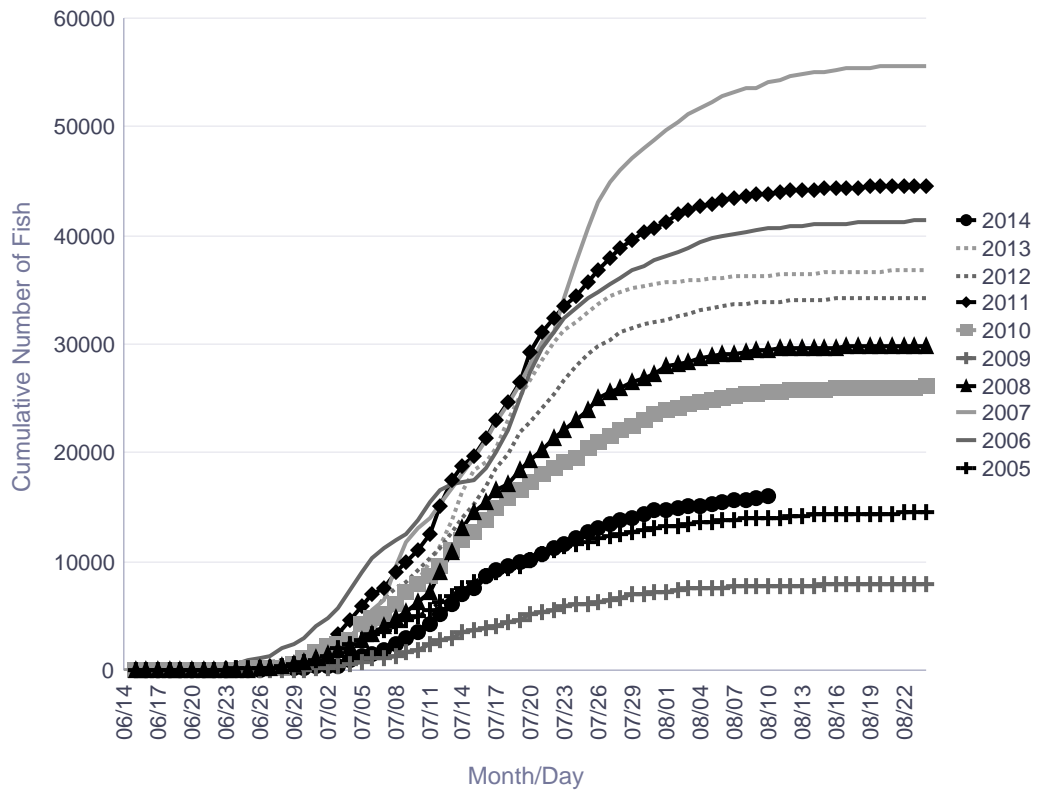
Informational Packet

George River Weir Historical Cumulative Daily Passage of Chum Salmon

	Cumulative Daily Passage									
Date	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
08/08	13,999	40,350	53,477	29,315	7,698	25,355	43,613	33,729	36,253	15,754
08/09	14,019	40,492	53,505	29,441	7,722	25,446	43,760	33,813	36,303	15,870
08/10	14,058	40,594	54,029	29,525	7,757	25,517	43,886	33,888	36,338	15,978
08/11	<u>14,090</u>	<u>40,684</u>	<u>54,381</u>	<u>29,581</u>	<u>7,772</u>	<u>25,628</u>	<u>43,994</u>	<u>33,957</u>	<u>36,393</u>	
08/12	14,140	40,779	54,656	29,620	7,787	25,704	44,087	34,018	36,434	
08/13	14,205	40,859	54,760	29,650	7,807	25,771	44,167	34,068	36,461	
08/14	14,286	40,966	55,010	29,679	7,818	25,830	44,235	34,112	36,510	
08/15	14,327	41,010	55,095	29,697	7,849	25,865	44,294	34,141	36,565	

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Season Total	14,828	41,467	55,843	29,979	7,941	26,154	44,641	34,336	36,874	

George River Chum



There are no comments for the past three days.

Informational Packet

Kogrukluk River Weir Historical Cumulative Daily Passage of Chum Salmon

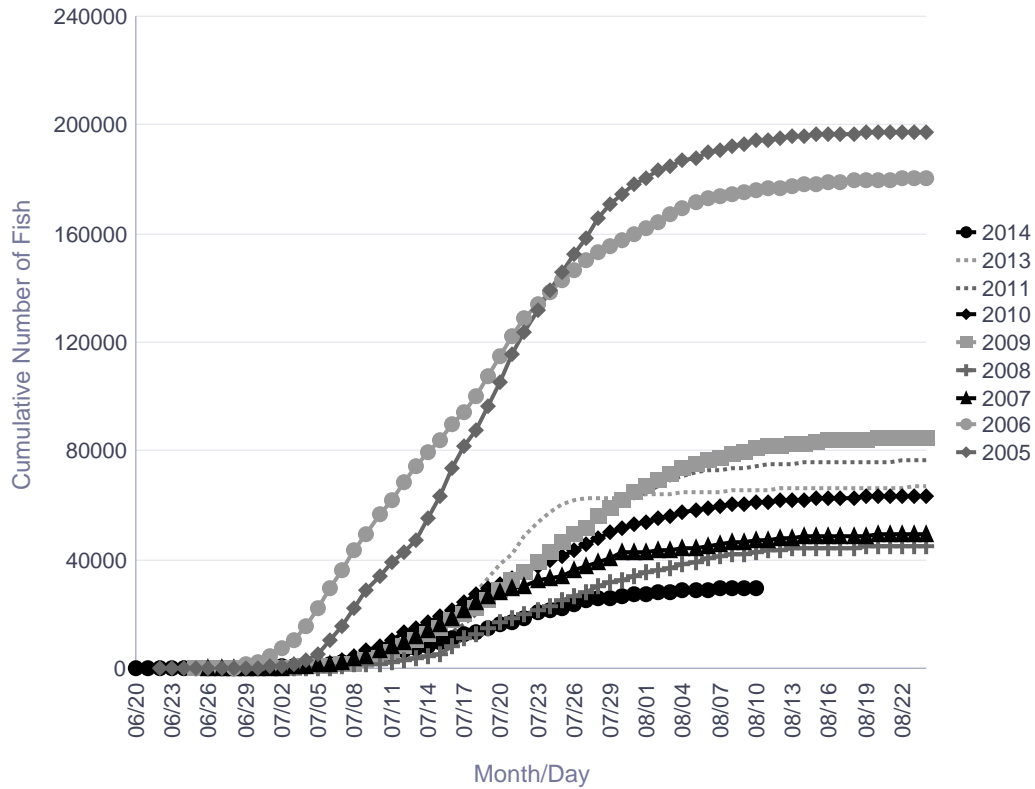
Date	Cumulative Daily Passage									
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
08/08	192,054	174,754	46,180	41,898	78,611	60,201	73,609		65,320	29,518
08/09	193,192	175,230	46,624	42,358	79,688	60,578	74,022		65,554	29,733
08/10	194,051	175,754	47,048	42,853	80,698	61,106	74,472		65,751	29,878
08/11	<u>194,717</u>	<u>176,355</u>	<u>47,360</u>	<u>43,252</u>	<u>81,461</u>	<u>61,478</u>	<u>74,808</u>		<u>65,916</u>	
08/12	195,208	176,882	47,805	43,628	82,052	61,852	75,142		66,054	
08/13	195,640	177,373	48,116	43,892	82,393	62,073	75,416		66,170	
08/14	195,982	177,828	48,320	44,101	82,825	62,246	75,631		66,267	
08/15	196,265	178,247	48,507	44,254	83,292	62,516	75,786		66,348	

Escapement Goal Range: 15,000 to 49,000

Highlighted years below are when escapement goal was achieved or exceeded.

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Season Total	<u>197,723</u>	<u>180,601</u>	<u>49,509</u>	<u>44,978</u>	<u>84,940</u>	<u>63,582</u>	<u>76,386</u>		<u>66,834</u>	

Kogrukluk River Chum



Date	Comments
8/10/2014	Escapement goal was met on July 20th.

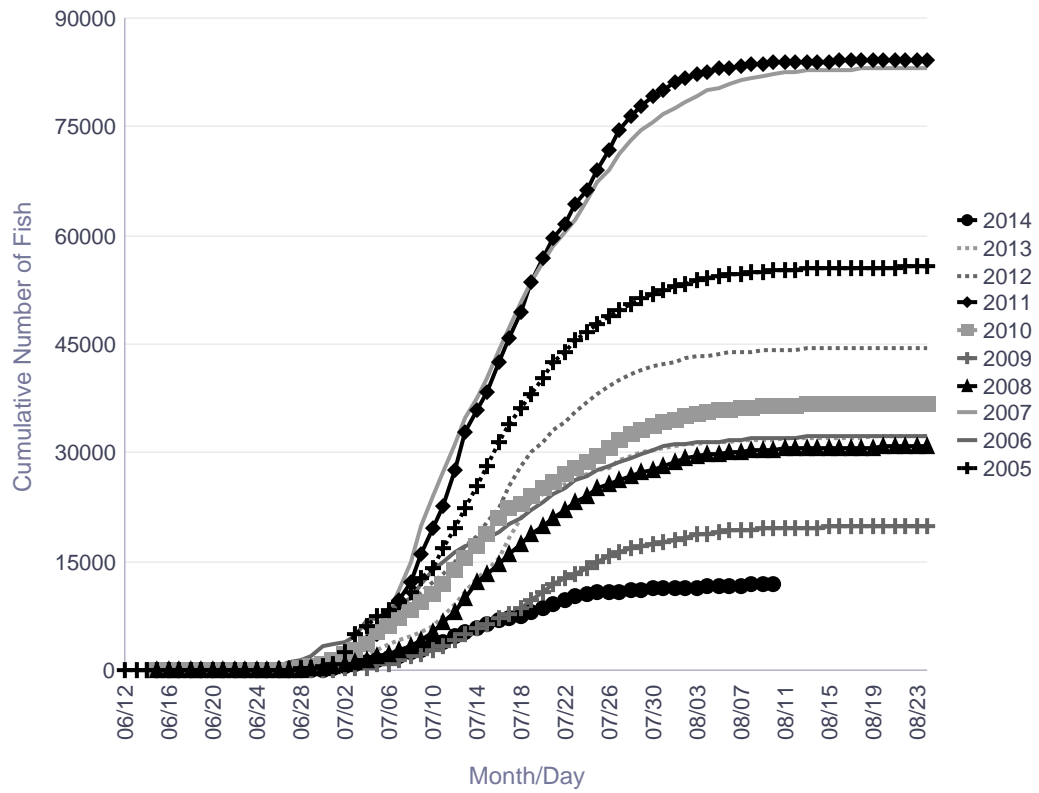
Informational Packet

Tatlawiksuk River Weir Historical Cumulative Daily Passage of Chum Salmon

	Cumulative Daily Passage									
Date	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
08/08	54,884	31,920	81,792	30,290	19,457	36,232	83,569	44,022	31,714	11,805
08/09	55,052	32,028	82,097	30,417	19,551	36,330	83,693	44,120	31,771	11,864
08/10	55,157	32,050	82,332	30,476	19,616	36,408	83,792	44,212	31,868	11,902
08/11	<u>55,219</u>	<u>32,138</u>	<u>82,498</u>	<u>30,546</u>	<u>19,656</u>	<u>36,484</u>	<u>83,871</u>	<u>44,279</u>	<u>31,923</u>	
08/12	55,312	32,171	82,575	30,594	19,671	36,547	83,933	44,327	31,987	
08/13	55,375	32,192	82,691	30,628	19,707	36,598	83,983	44,419	32,016	
08/14	55,434	32,195	82,775	30,674	19,748	36,637	84,023	44,449	32,058	
08/15	55,489	32,196	82,827	30,705	19,774	36,664	84,054	44,475	32,082	

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Season Total	55,724	32,303	83,246	30,896	19,975	36,702	84,204	44,572	32,277	

Tatlawiksuk River Chum



There are no comments for the past three days.

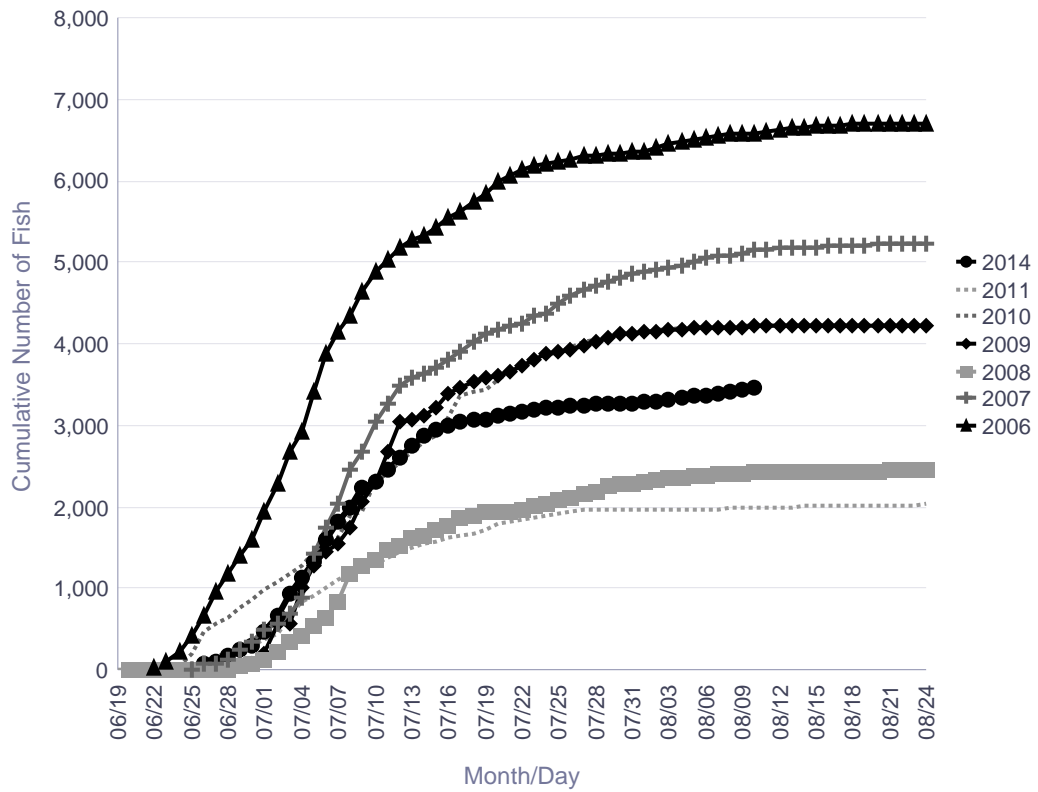
Informational Packet

Kwethluk River Salmon Monitoring Project Cumulative Daily Passage of Sockeye Salmon

Cumulative Daily Passage										
Date	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
08/08		6,566	5,091	2,407	4,204	4,209	1,978			3,401
08/09		6,575	5,116	2,416	4,205	4,212	1,982			3,432
08/10		6,588	5,143	2,422	4,211	4,213	1,985			3,456
08/11		<u>6,600</u>	<u>5,158</u>	<u>2,424</u>	<u>4,212</u>	<u>4,213</u>	<u>1,985</u>			
08/12		6,627	5,170	2,428	4,212	4,213	1,985			
08/13		6,642	5,182	2,432	4,212	4,214	1,996			
08/14		6,659	5,183	2,434	4,212	4,214	2,007			
08/15		6,676	5,186	2,438	4,214	4,218	2,010			

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Season Total		6,733	5,262	2,451	4,230	4,239	2,031			

Kwethluk River Sockeye



There are no comments for the past three days.

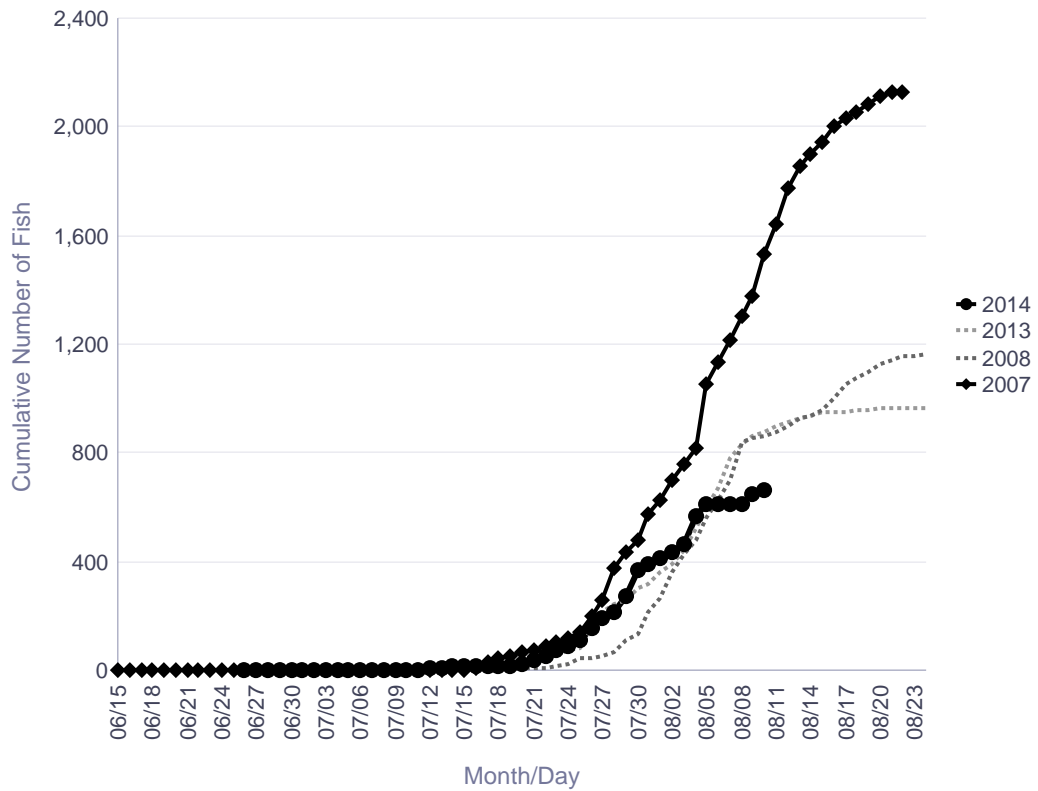
Informational Packet

Salmon River (Aniak) Weir Historical Cumulative Daily Passage of Sockeye Salmon

	Cumulative Daily Passage									
Date	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
08/08			1,306	837					835	615
08/09			1,377	853					863	646
08/10			1,531	864					877	661
08/11			1,640	874					896	
08/12			1,777	897					910	
08/13			1,852	925					927	
08/14			1,903	936					939	
08/15			1,941	958					950	

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Season Total			2,130	1,181					966	

Salmon River (Aniak) Sockeye



Day Comments

Date	Comments
8/8/2014	Out of operation due to issues at the weir.
8/9/2014	Partial day. Weir back in operation at 130pm.

Informational Packet

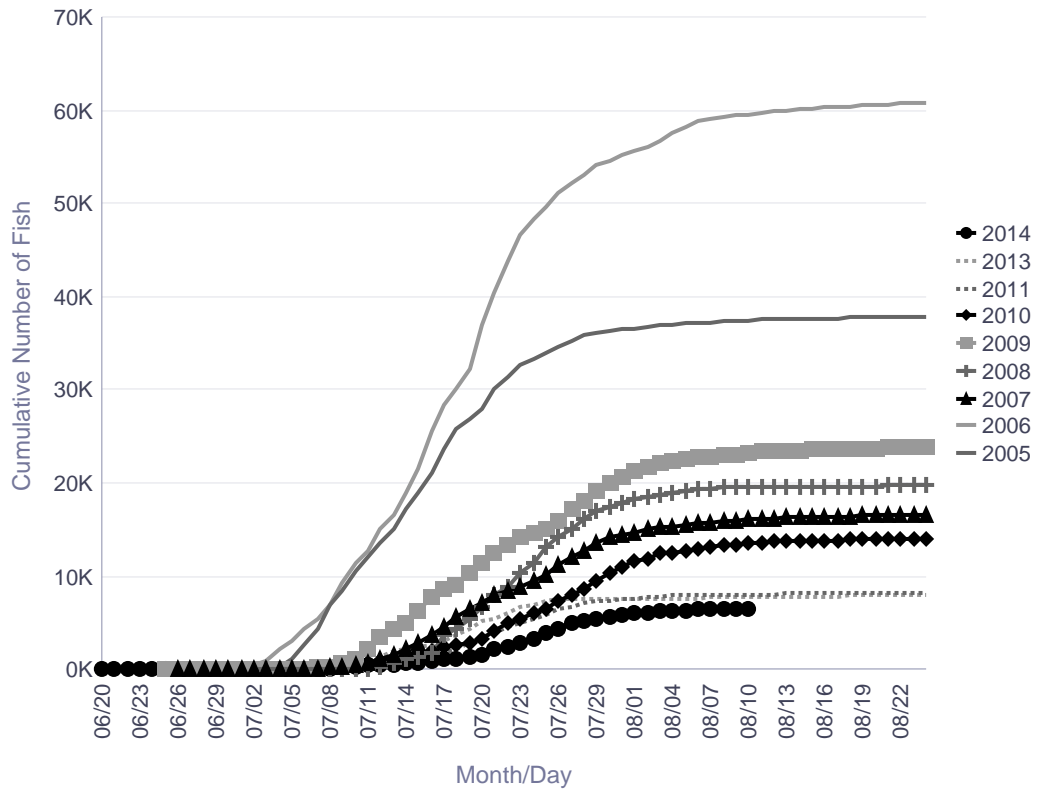
Kogrukluk River Weir Historical Cumulative Daily Passage of Sockeye Salmon

		Cumulative Daily Passage								
Date	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
08/08	37,331	59,280	15,890	19,452	22,983	13,271	7,985		7,716	6,459
08/09	37,402	59,423	15,976	19,484	23,097	13,405	8,005		7,744	6,493
08/10	37,432	59,525	16,072	19,518	23,216	13,499	8,025		7,768	6,519
08/11	<u>37,495</u>	<u>59,703</u>	<u>16,146</u>	<u>19,555</u>	<u>23,320</u>	<u>13,593</u>	<u>8,048</u>		<u>7,788</u>	
08/12	37,527	59,834	16,231	19,588	23,387	13,658	8,066		7,805	
08/13	37,575	59,957	16,309	19,601	23,414	13,715	8,081		7,820	
08/14	37,607	60,071	16,345	19,616	23,472	13,754	8,092		7,832	
08/15	37,633	60,176	16,379	19,631	23,560	13,794	8,100		7,842	

Escapement Goal Range: 4,400 to 17,000
 Highlighted years below are when escapement goal was achieved or exceeded.

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Season Total	<u>37,939</u>	<u>60,807</u>	<u>16,526</u>	<u>19,675</u>	<u>23,785</u>	<u>13,997</u>	<u>8,135</u>		<u>7,882</u>	

Kogrukluk River Sockeye



Day Comments

Date	Comments
8/10/2014	Escapement goal was met on July 27th.

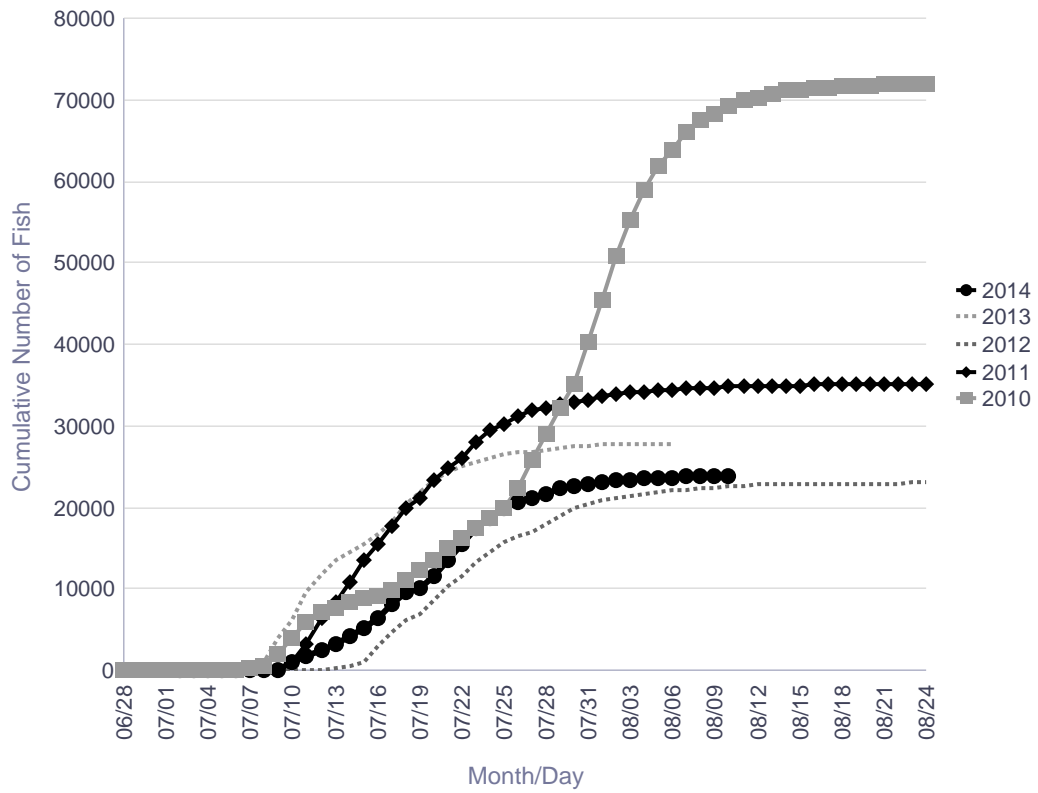
Informational Packet

Telaquana River Weir Historical Cumulative Daily Passage of Sockeye Salmon

Cumulative Daily Passage					
Date	2010	2011	2012	2013	2014
08/08	67,582	34,641	22,416		23,742
08/09	68,218	34,742	22,470		23,781
08/10	69,153	34,815	22,594		23,820
08/11	<u>69,820</u>	<u>34,861</u>	<u>22,651</u>		
08/12	70,237	34,879	22,729		
08/13	70,705	34,917	22,784		
08/14	71,048	34,926	22,858		
08/15	71,259	34,955	22,867		

	2010	2011	2012	2013	2014
Season Total	72,020	35,105	22,994	27,806	

Telaquana River Sockeye



Day Comments

Date	Comments
8/10/2014	Last day of operations.

Informational Packet

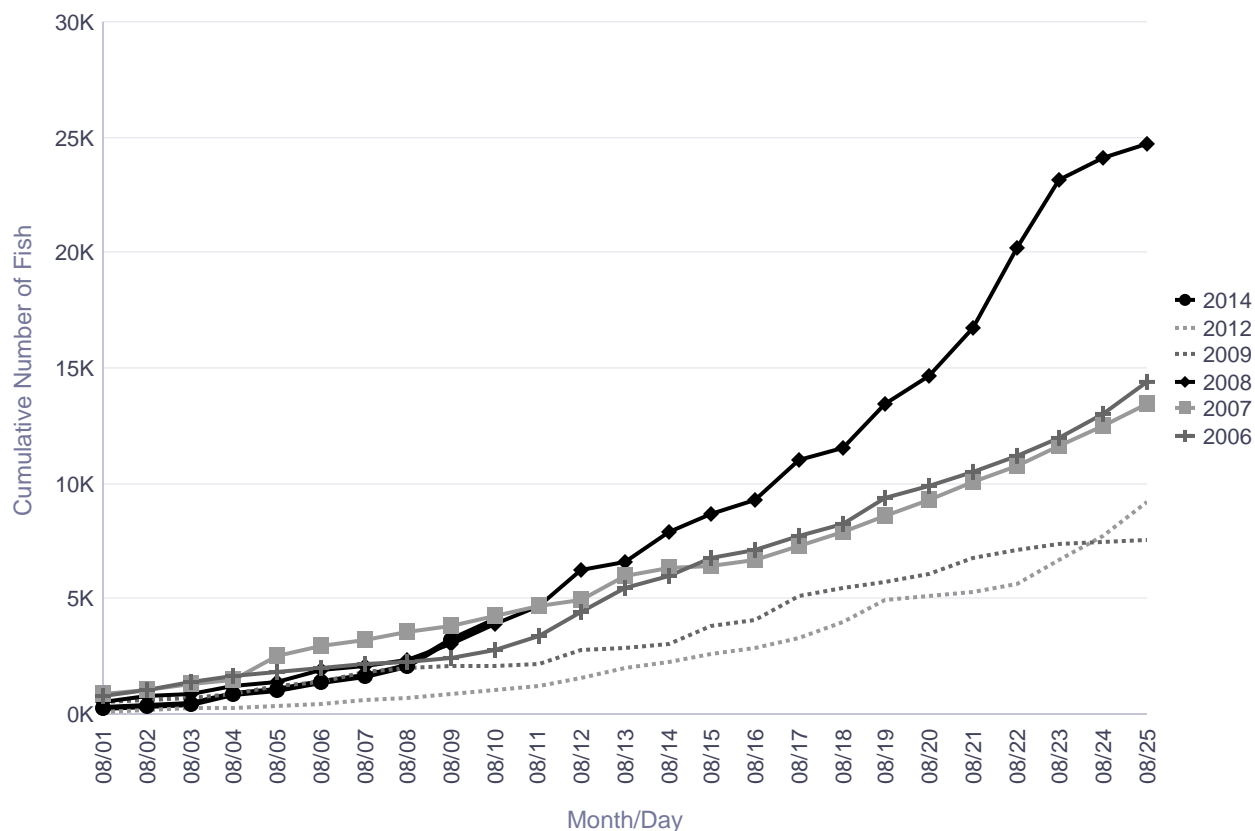
Kwethluk River Weir Historical Cumulative Daily Passage of Coho Salmon

	Cumulative Daily Passage									
Date	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
08/08		2,293	3,527	2,336	2,031			731		2,127
08/09		2,424	3,801	3,081	2,065			879		3,194
08/10		2,749	4,289	3,885	2,134			1,023		4,061
08/11		3,401	4,657	4,678	2,192			1,200		
08/12		4,452	4,988	6,215	2,769			1,551		
08/13		5,466	5,962	6,567	2,897			2,026		
08/14		6,031	6,310	7,902	3,050			2,309		
08/15		6,772	6,463	8,679	3,833			2,583		

Escapement Goal Range: > 19,000
 Highlighted years below are when escapement goal was achieved or exceeded.

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Season Total		25,664	20,256	49,972	21,911			19,960		

Kwethluk River Coho



There are no comments for the past three days.

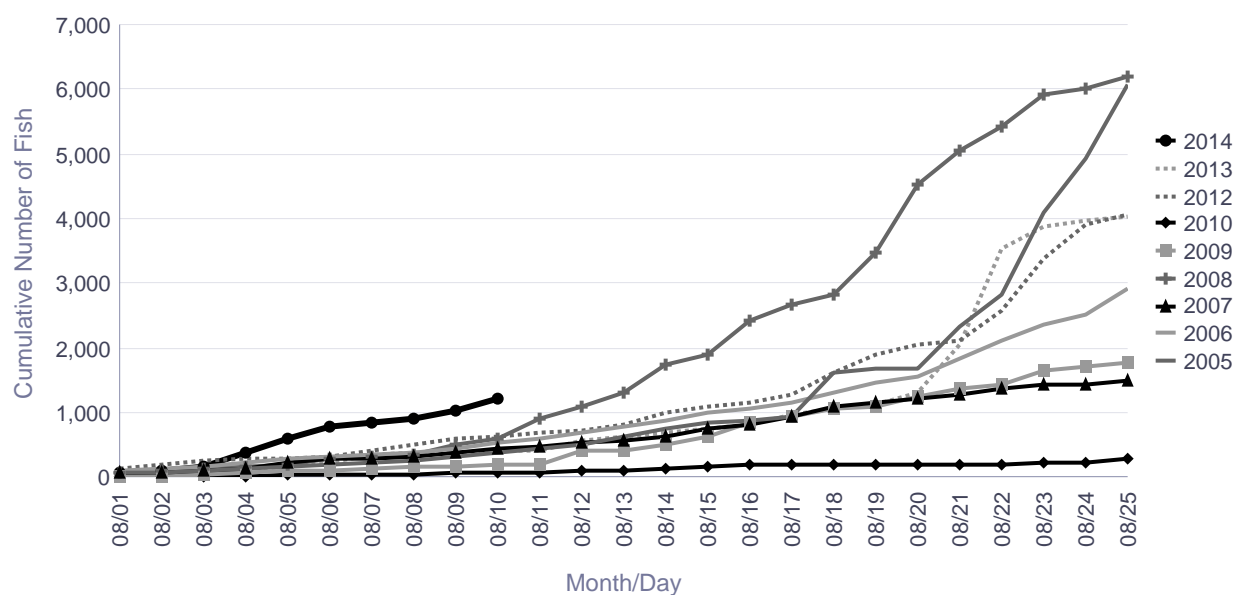
Informational Packet

Tuluksak River Salmon Monitoring Project Cumulative Daily Passage of Coho Salmon

Cumulative Daily Passage										
Date	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
08/08	266	385	310	346	155	50		503	375	913
08/09	316	430	380	491	165	60		593	388	1,028
08/10	381	539	437	605	182	72		631	404	1,205
08/11	<u>448</u>	<u>606</u>	<u>478</u>	<u>911</u>	<u>197</u>	<u>81</u>		<u>701</u>	<u>421</u>	
08/12	506	685	540	1,103	410	102		728	568	
08/13	628	772	566	1,305	422	110		802	613	
08/14	751	887	626	1,728	512	126		986	678	
08/15	856	994	741	1,879	638	176		1,086	736	

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Season Total	11,324	6,111	2,807	7,457	8,137	1,216		4,407	6,490	

Tuluksak River Coho



There are no comments for the past three days.

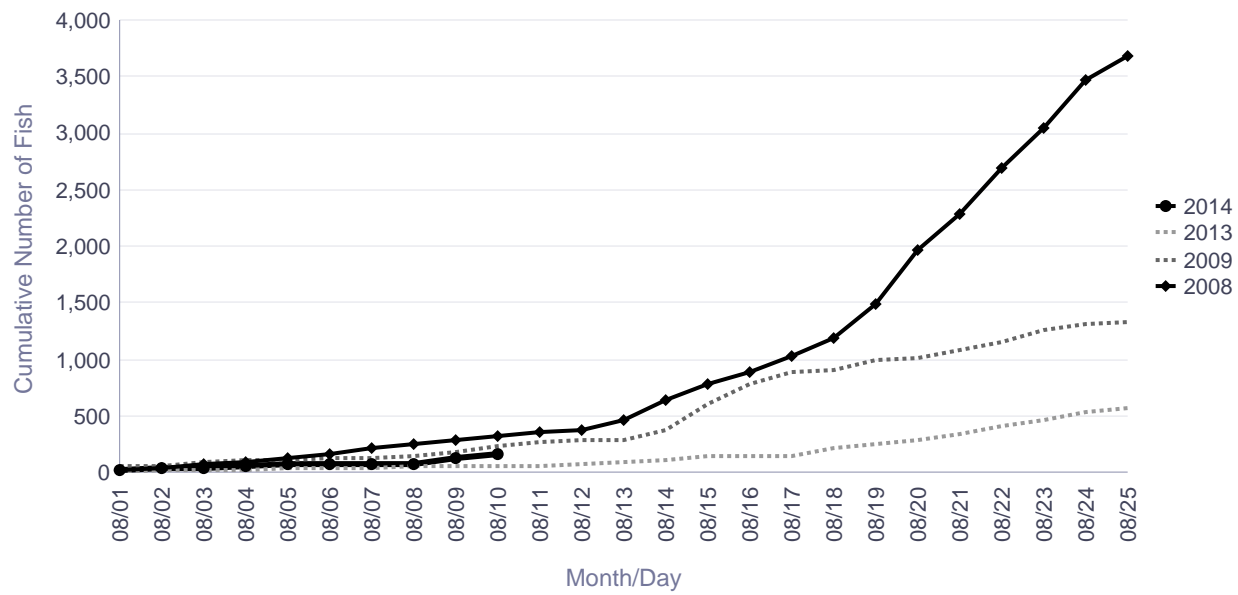
Informational Packet

Salmon River (Aniak) Weir Historical Cumulative Daily Passage of Coho Salmon

Cumulative Daily Passage										
Date	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
08/08				248	147				50	81
08/09				283	178				55	135
08/10				318	225				58	171
08/11				351	264				62	
08/12				382	283				80	
08/13				455	290				93	
08/14				645	380				108	
08/15				785	597				143	

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Season Total				11,022	6,391				2,869	

Salmon River (Aniak) Coho



Date	Comments
8/8/2014	Out of operations due to issues at the weir.
8/9/2014	Partial day. Weir back in operation at 130pm.

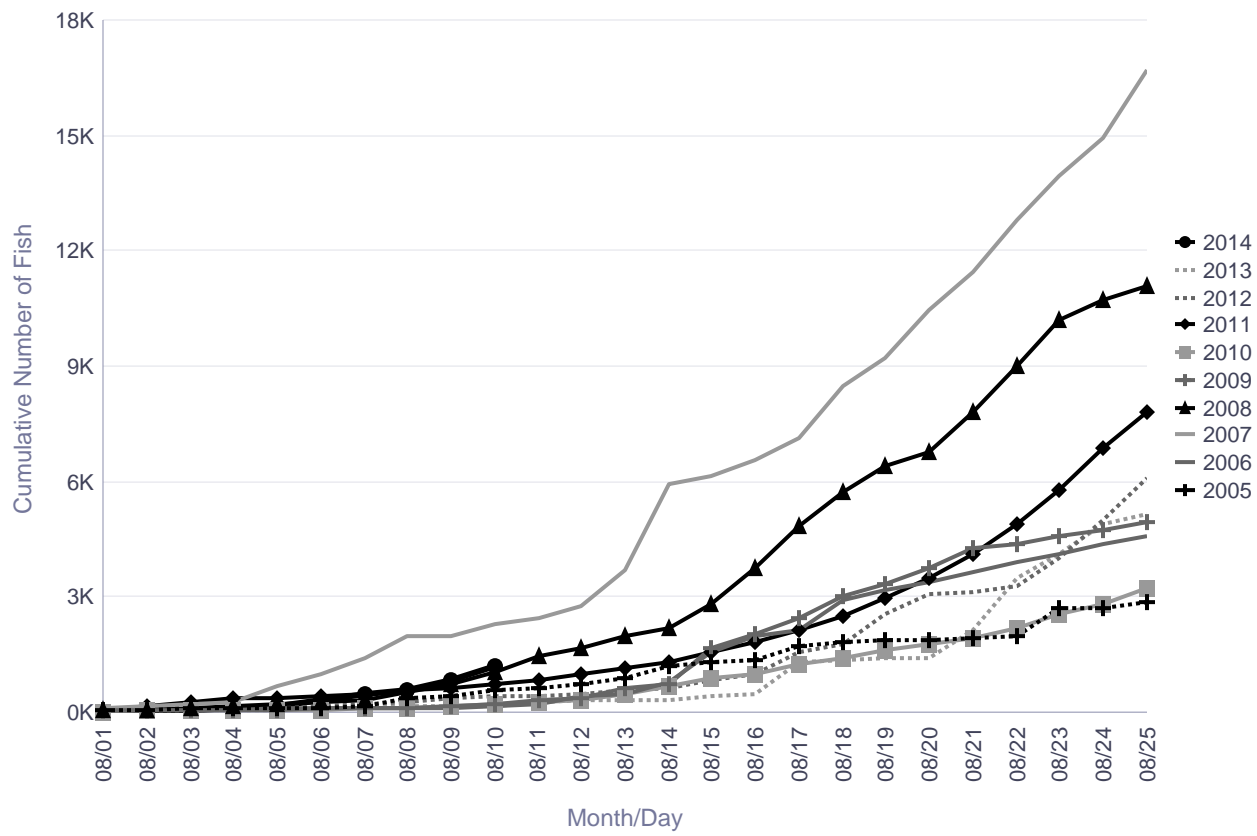
Informational Packet

George River Weir Historical Cumulative Daily Passage of Coho Salmon

	Cumulative Daily Passage									
Date	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
08/08	352	125	1,968	530	118	108	562	279	142	569
08/09	424	133	1,977	736	150	160	641	354	163	823
08/10	585	158	2,285	1,052	230	196	735	398	182	1,212
08/11	<u>610</u>	<u>225</u>	<u>2,429</u>	<u>1,460</u>	<u>334</u>	<u>245</u>	<u>847</u>	<u>446</u>	<u>257</u>	
08/12	737	443	2,762	1,685	392	316	980	498	310	
08/13	915	464	3,707	2,009	611	455	1,139	593	324	
08/14	1,187	800	5,926	2,212	738	709	1,328	643	338	
08/15	1,295	1,591	6,122	2,790	1,691	898	1,553	818	418	

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Season Total	8,200	11,294	29,317	21,956	12,573	12,961	30,028	15,272	13,894	

George River Coho



There are no comments for the past three days.

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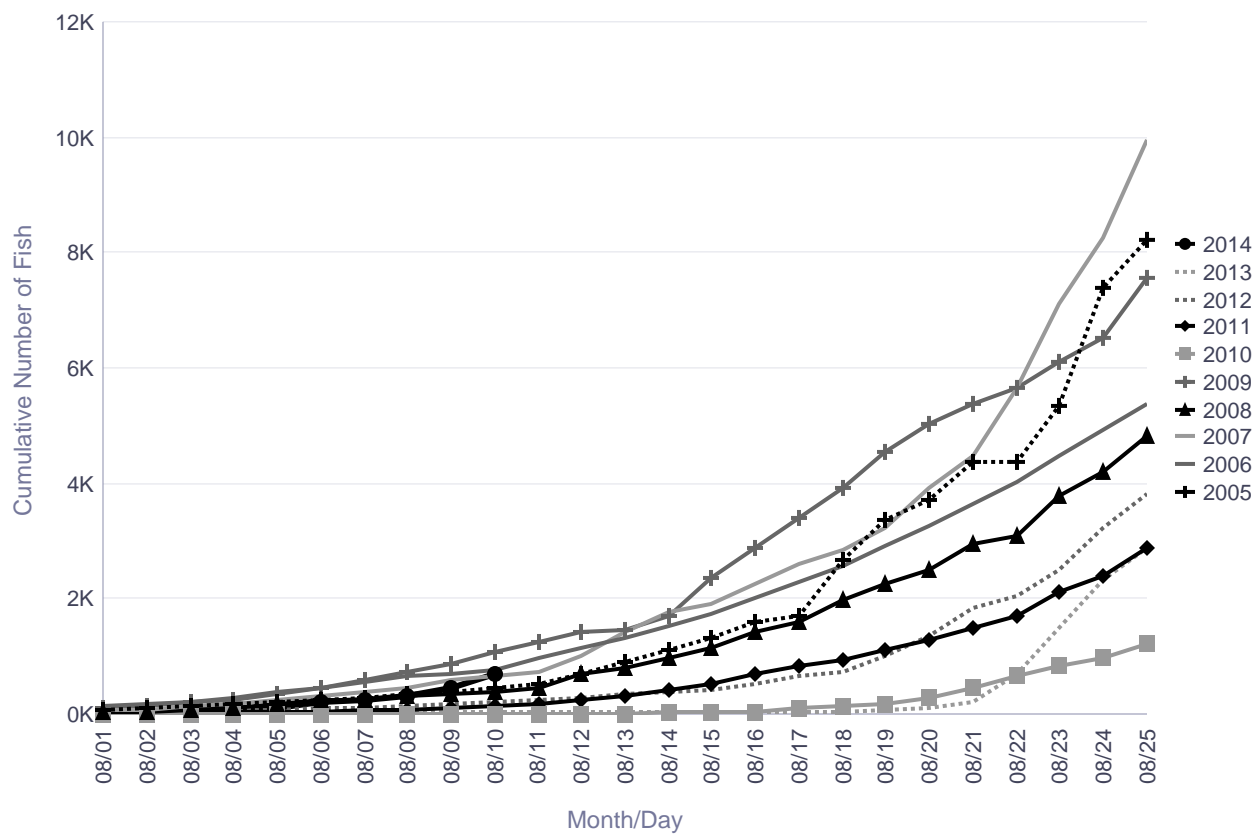
Kogrukluk River Weir Historical Cumulative Daily Passage of Coho Salmon

Cumulative Daily Passage										
Date	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
08/08	352	648	469	313	725	1	90	161	40	311
08/09	399	713	587	367	875	1	123	188	40	466
08/10	464	771	678	390	1,097	1	145	223	40	700
08/11	<u>534</u>	<u>977</u>	<u>729</u>	<u>473</u>	<u>1,242</u>	<u>1</u>	<u>188</u>	<u>248</u>	<u>40</u>	
08/12	700	1,133	1,016	683	1,426	1	242	289	40	
08/13	907	1,314	1,438	800	1,444	10	318	335	40	
08/14	1,126	1,519	1,775	989	1,699	23	416	375	40	
08/15	1,336	1,749	1,928	1,164	2,379	27	536	419	40	

Escapement Goal Range: 13,000 to 28,000
 Highlighted years below are when escapement goal was achieved or exceeded.

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Season Total	<u>24,115</u>	<u>17,011</u>	<u>27,034</u>	<u>29,661</u>	<u>22,981</u>	<u>13,970</u>	<u>24,174</u>	<u>13,697</u>	<u>23,590</u>	

Kogrukluk River Coho



There are no comments for the past three days.

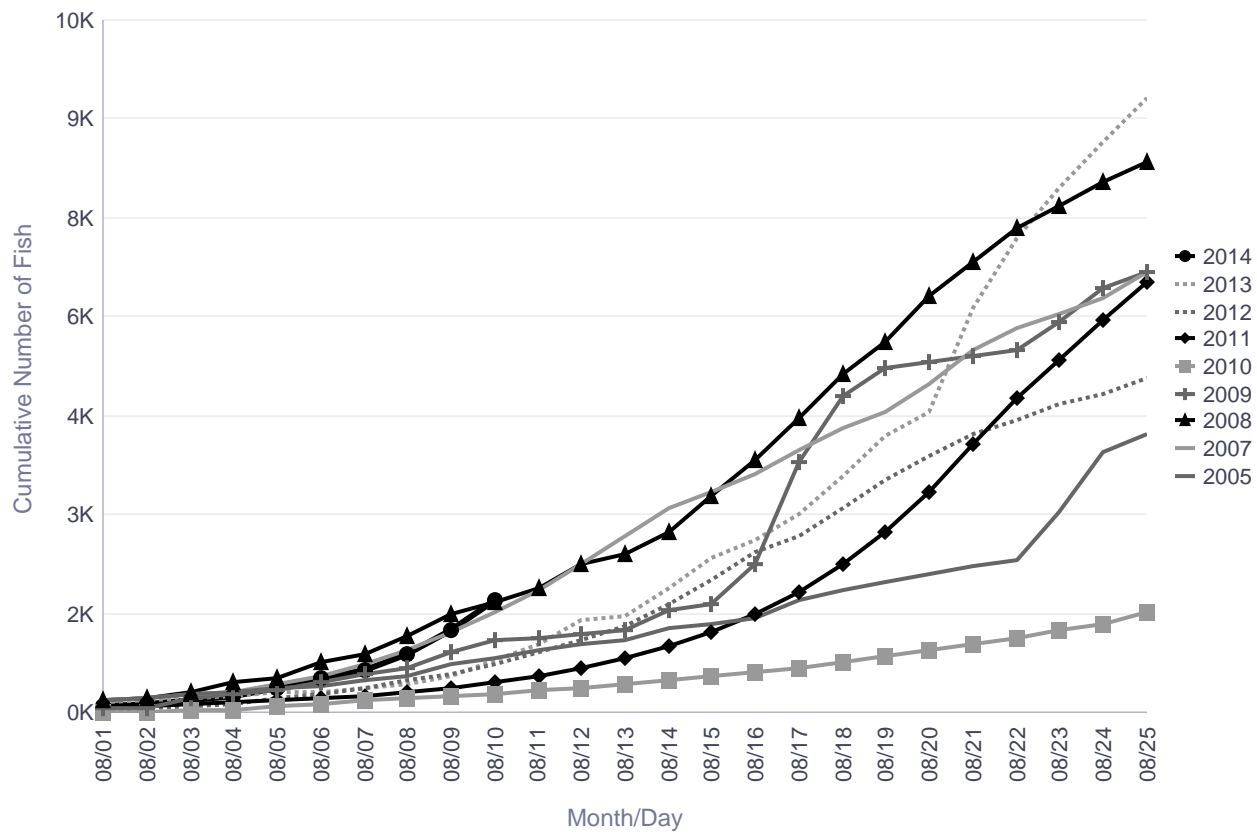
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Tatlawiksuk River Weir Historical Cumulative Daily Passage of Coho Salmon

	Cumulative Daily Passage									
Date	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
08/08	547		940	1,168	679	204	311	495	444	894
08/09	719		1,204	1,483	929	247	377	589	536	1,239
08/10	837		1,514	1,682	1,092	284	458	739	805	1,692
08/11	<u>938</u>		<u>1,870</u>	<u>1,889</u>	<u>1,128</u>	<u>328</u>	<u>557</u>	<u>904</u>	<u>1,027</u>	
08/12	1,029		2,251	2,234	1,184	377	678	1,088	1,392	
08/13	1,102		2,673	2,391	1,239	430	827	1,303	1,467	
08/14	1,269		3,112	2,727	1,549	487	1,009	1,655	1,878	
08/15	1,351		3,340	3,267	1,637	548	1,232	2,020	2,335	

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Season Total	7,560		8,686	11,065	10,155	3,521	12,927	8,070	13,076	

Tatlawiksuk River Coho



There are no comments for the past three days.

Informational Packet

Coho salmon commercial harvest by day, 1990–2013.													
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	5-yr Average	10-yr Average
22-Jul					94			1,525				1,525	810
23-Jul										2,960		2,960	2,960
24-Jul									1,562			1,562	1,562
25-Jul					90								90
26-Jul							3,603			5,785		4,694	4,694
27-Jul								5,688	2,912			4,300	4,300
28-Jul						14,516						14,516	14,516
29-Jul													
30-Jul	9,462				119		6,049			8,968		7,509	6,150
31-Jul									3,485			3,485	3,485
1-Aug			10,309	19,133		16,846						16,846	15,429
2-Aug		8,666			150								4,408
3-Aug	23,957							12,563	6,958			9,761	14,493
4-Aug			10,650			19,337						19,337	14,994
5-Aug		21,463											21,463
6-Aug	28,638			15,926	12,013	380	17,246			23,461		13,696	16,277
7-Aug									5,148			5,148	5,148
8-Aug			14,162		13,552	16,224						16,224	14,646
9-Aug		20,026											20,026
10-Aug	20,022			13,059				8,660	5,209	30,972		14,947	15,584
11-Aug			23,209			15,569						15,569	19,389
12-Aug							7,274					7,274	7,274
13-Aug	20,353				19,667	3,709				8,077		5,893	12,952
14-Aug				15,411									15,411
15-Aug		7,768	18,253		20,140								15,387
16-Aug									7,996			7,996	7,996
17-Aug	8,491			6,231				4,557		12,778		8,668	8,014
18-Aug			7,833			10,189						10,189	9,011
19-Aug													
20-Aug	9,287				7,017					11,630		11,630	9,311
21-Aug									2,838			2,838	2,838
22-Aug			6,004	3,993	6,280	6,419						6,419	5,674
23-Aug	19,068									5,447		5,447	12,258
24-Aug	18,642			3,085									10,864
25-Aug		6,549	5,427		5,242								5,739
26-Aug													
27-Aug	13,535												13,535
28-Aug			2,593										2,593
29-Aug													
30-Aug	11,563		1,334										6,449
31-Aug													
Total	183,018	64,472	99,774	76,838	84,364	103,189	34,172	32,993	36,108	110,078		63,308	82,501
22-Jul to 1-Aug	9,462	0	10,309	19,133	303	31,362	9,652	7,213	7,959	17,713	0	14,780	11,311
2-Aug to 8-Aug	52,595	30,129	24,812	15,926	25,715	35,941	17,246	12,563	12,106	23,461	0	20,263	25,049
9-Aug to 14-Aug	40,375	20,026	23,209	28,470	19,667	19,278	7,274	8,660	5,209	39,049	0	15,894	21,122
15-Aug to 31-Aug	80,586	14,317	41,444	13,309	38,679	16,608	0	4,557	10,834	29,855	0	12,371	25,019

Informational Packet

2014 Location of Coho Salmon by Date Past Bethel Continuing Up the Kuskokwim River

Community	RIVER MILES	DAYS BETWEEN SITES	Index 1	Index 2	Index 3	Index 4	Index 5
	Bethel Test Index		122.00	158.00	200.00	338.00	384.00
	Cumulative CPUE		446	892	1,391	1,890	2,722
Travel in miles per day		14	14	14	14	14	14
Apokak Slough S1 L	0	0	24-Jul	28-Jul	31-Jul	3-Aug	6-Aug
Tuntutuliak	28	2.0	26-Jul	30-Jul	2-Aug	5-Aug	8-Aug
Johnson R S2 L	48	3.4	27-Jul	31-Jul	3-Aug	6-Aug	9-Aug
Napaskiak	60	4.3	28-Jul	1-Aug	4-Aug	7-Aug	10-Aug
Bethel	66	4.7	28-Jul	1-Aug	4-Aug	7-Aug	10-Aug
Kwethluk	82	5.9	29-Jul	2-Aug	5-Aug	8-Aug	11-Aug
Akiak	100	7.1	31-Jul	4-Aug	7-Aug	10-Aug	13-Aug
Tuluksak S3 L	120	8.6	1-Aug	5-Aug	8-Aug	11-Aug	14-Aug
Kaskag	163	11.6	4-Aug	8-Aug	11-Aug	14-Aug	17-Aug
Birch Tree	183	13.1	6-Aug	10-Aug	13-Aug	16-Aug	19-Aug
Aniak	191	13.6	6-Aug	10-Aug	13-Aug	16-Aug	19-Aug
Chuathbaluk S4 L	201	14.4	7-Aug	11-Aug	14-Aug	17-Aug	20-Aug
Napaimiut	223	15.9	8-Aug	12-Aug	15-Aug	18-Aug	21-Aug
Crooked Creek	259	18.5	11-Aug	15-Aug	18-Aug	21-Aug	24-Aug
Holitna River S5 L	305	21.8	14-Aug	18-Aug	21-Aug	24-Aug	27-Aug
Tatlawiksuk River	350	25.0	18-Aug	22-Aug	25-Aug	28-Aug	31-Aug
McGrath	468	33.4	26-Aug	30-Aug	2-Sep	5-Sep	8-Sep
Nikolai	585	41.8	3-Sep	7-Sep	10-Sep	13-Sep	16-Sep

Informational Packet

ALASKA DEPARTMENT OF FISH AND GAME DIVISION OF COMMERCIAL FISHERIES NEWS RELEASE



*Cora Campbell, Commissioner
Jeff Regnart, Director*



Contact:

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Phone: (907) 543-2433
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Kuskokwim Area Office

P.O. Box 1467

Bethel, AK 99559

Date Issued: August 11, 2014

Time: 4:00 p.m.

Kuskokwim River Salmon Fishery Update #8 Kuskokwim River Inseason Assessment and Run Status

This is an announcement from the Alaska Department of Fish and Game in Bethel for subsistence fishermen in the Kuskokwim Area.

2014 Kuskokwim River Inseason Assessment

All Bethel Test Fishery and escapement numbers can be found online at: <http://www.adfg.alaska.gov/index.cfm?adfg=commercialbyareakuskokwim.salmon#/fishcounts>

Bethel Test Fishery

Bethel Test Fishery continues to operate on schedule. The cumulative Catch Per Unit Effort as of August 10th, is 650 Chinook; 1,363 sockeye; 6,315 chum; and 2,723 for coho salmon. The Chinook, chum and sockeye runs are all into the 99-100% complete range, with only a few fish of each species being caught at this time. Coho salmon cumulative CPUE to this point is above average, and average coho salmon run timing indicates the run is 60% complete at Bethel. Recent high daily CPUE values indicate the peak of the coho salmon run is approaching Bethel.

Lower Kuskokwim River Chinook Salmon Tagging

In an effort to understand the migration speed of Chinook salmon through the lower Kuskokwim River, ADF&G conducted a new pilot project below Johnson River. This project used 7.5" & 8" drift gillnets to capture and live release Chinook salmon with tags attached to monitor their migration upriver. This project completed the tagging portion on July 9. The crew deployed 92 tags throughout the season.

Preliminary results indicate tags have successfully moved upriver in the mainstem Kuskokwim River, and have been located in the Kwethluk River. Travel speed was about 3 days on average from Johnson River to Bethel. 10 of the tags deployed have been identified passing the Kwethluk River weir, and these tags were well distributed throughout the run, indicating Kwethluk River

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Chinook salmon arrive in the Kuskokwim River throughout the run. It took tagged fish around 19 days to go from the tagging location to the weir.

These fish are identifiable by a plastic tag attached to their back, and a metal antennae coming out of their mouth. If you find one of these tagged fish, please call the number on the plastic tag, and you will be entered into a monthly cash drawing of \$200, and a seasonal cash drawing of \$500.

Kalskag Area Fish wheels /Drift Gillnet Tagging; ADF&G, KNA

Similar to other years this project has operated, in collaboration with Kuskokwim Native Association to tag Chinook salmon using fish wheels and drift gillnets near Kalskag. Tagged fish that are later recovered at weir projects, allow for ADF&G to estimate the total abundance of Chinook salmon in the middle and upper Kuskokwim River. This project ended tagging operations on July 17th, and deployed 295 tags in Chinook salmon.

Preliminary information shows that several of these tagged fish have passed upriver weirs. Aerial survey flights will be conducted August 26-30, to identify final tag locations in the mainstem.

These fish are identifiable by a plastic tag attached to their back, and a metal antennae coming out of their mouth. If you find one of these tagged fish, please call the number on the plastic tag, and you will be entered into a monthly cash drawing of \$200, and a seasonal cash drawing of \$500.

Kuskokwim River Sonar Investigation

ADF&G staff surveyed the lower Kuskokwim River from the Kwethluk “Y” to Johnson River looking for potential sites for a main stem sonar site. Potentially useable sites were identified upriver of Bethel, and sonar tests indicated fish were identifiable with the sonar. ADF&G will continue to pursue feasibility of these identifiable sites as inseason monitoring projects.

Kwethluk River Salmon Monitoring; USFWS

This monitoring station is located on the Kwethluk River and monitors salmon passage to spawning areas, as well as serving as a recapture site for tagged Chinook salmon. This project became operational on the evening of June 25, which is earlier than 3 of the past five years. As of August 10, the crew has counted 3,165 Chinook; 3,458 sockeye; 17,385 chum; and 4,061 coho salmon. The Chinook salmon escapement goal (4,100–7,500) will likely not be achieved as historical run timing indicates that over 99% of the run has passed the weir. Chum salmon escapement appears to be below average, and average run timing indicates the escapement is approximately 98% complete. Sockeye salmon escapement is above average for this date, and average run timing indicates the escapement is over 98% complete. Coho salmon escapement is above average for this date, and average run timing indicates the run is still just beginning (8% complete). Current projections indicate the escapement goal will be met.

Tuluksak River Salmon Monitoring; USFWS

This monitoring station is located in the Tuluksak River drainage and monitors salmon passage to spawning areas, as well as serving as a recapture site for tagged Chinook salmon. This project became operational on June 30, which is a few days later than the past few years. As of August 10, the crew has counted 318 Chinook; 440 sockeye; 8,508 chum; and 1,205 coho salmon. Chinook salmon escapement is higher than 3 of the past 7 years as of this date and escapement is below average. Average run timing indicates the Chinook escapement is over 99% complete.

Informational Packet

Chum salmon escapement is below average for this date, and average run timing indicates the escapement is 96% complete. Coho salmon escapement is above average for this date, and average run timing indicates the run is just beginning (6% complete).

Salmon River Weir; ADF&G, KNA

This weir is located in the Aniak River drainage and monitors salmon passage to spawning areas, as well as serving as a recapture site for tagged Chinook salmon. This project became operational on the evening of June 26th. The weir was recently out of operation due to high water (August 6–8) and had a partial day of operation on August 9th. Estimates for inoperable days will be made at the end of the season. As of August 10th, the crew has counted 1,694 Chinook; 661 sockeye; 2,556 chum; 171 coho salmon. There are no escapement goals for this system.

George River Weir; ADF&G, KNA

This weir is located in the George River drainage and monitors salmon passage to spawning areas, as well as serving as a recapture site for tagged Chinook salmon. This weir began operations on June 16th, and has had continuous operations. As of August 10th, the crew has counted 2,665 Chinook; 15,978 chum salmon; and 1,212 coho salmon. The Chinook salmon count achieved the lower bound of the escapement goal on July 10th, and average run timing indicates the escapement is 99% complete. Chum salmon escapement is below average for this date in past years, and average run timing indicates the escapement is 98% complete at this point. Coho salmon escapement is above average for this date, and average run timing indicates the run is just beginning (4% complete).

Tatlawiksuk River Weir; ADF&G, KNA

This weir is located in the Tatlawiksuk River drainage and monitors salmon passage to spawning areas, as well as serving as a recapture site for tagged Chinook salmon. This weir began operations on June 14th, with 3.5 days of no operation due to high water. As of August 10th, the crew has counted 1,896 Chinook; 11,902 chum; and 1,692 coho salmon. Chinook salmon escapement is above average with only 5 of the 14 years of operation seeing higher escapements. Average run timing indicates the Chinook salmon run is over 99% complete. Chum salmon escapements are below average with only 2 of 14 years having seen fewer fish at this point. Average run timing indicates the chum salmon escapement is 99% complete. Coho salmon escapement is above average for this date, and average run timing indicates the run is still just beginning (10% complete).

Kogruklu River Weir; ADF&G

This weir is located in the Holitna River drainage and monitors salmon passage to spawning areas, as well as serving as a recapture site for tagged Chinook salmon. This weir began operations on June 20th, and has had continuous operations. As of August 10th, the crew has counted 3,703 Chinook; 6,519 sockeye; 29,878 chum; and 700 coho salmon. The Chinook salmon count is below average for this date, and average run timing indicates the escapement is 99% complete. Achievement of the escapement goal (4,800 – 8,800) for Chinook salmon is highly unlikely. Chum salmon escapement is below average and average run timing indicates the escapement is 99% complete. The lower bound of the escapement goal for chum salmon (15,000) was achieved on July 20th. Sockeye salmon escapement is below average; however, the lower bound of the escapement goal for sockeye salmon (4,400) was met on July 26th. Average

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run timing indicates that sockeye salmon escapement is 99% complete. Coho salmon escapement is above average for this date, and average run timing indicates the run is just beginning (1% complete).

Telaquana River Weir; ADF&G, NPS

This weir is located in the Telaquana River drainage and monitors salmon passage to spawning areas, as well as historically serving as a recapture site for tagged sockeye salmon. This is the 5th year of operations at this project. Sockeye salmon are the only salmon species observed in high quantities at this weir. This project became operational on July 2nd and end operations today, August 10th. The crew has counted 67 Chinook; 23,820 sockeye; and 72 chum salmon to date. Escapement and run timing to date is similar to historical years.

Aerial Surveys

As of August 4, all of the escapement aerial surveys of the Kuskokwim River drainage have been completed. The Aniak, Holitna, and Pitka Fork Salmon rivers have exceeded the upper bound of their respective Chinook escapement goal range. The Kisaralik, Salmon, Gagarahay, and Cheeneetnuk rivers have exceeded the lower bound of their respective Chinook escapement goal range. The Kisaralik, Aniak, and Salmon rivers reached their highest Chinook escapements since 2008. Pitka Fork Salmon River has achieved its highest Chinook escapement since 1992.

Summary

The BTF data indicates that the coho salmon run is tracking above the 5-year and 10-year averages. In addition, cumulative BTF index for 2014, to date, is approximately 1,000 index points above three of the last four years. As of August 9, the BTF cumulative coho salmon index was 2,338 of which 1,265 or 54% of the 2014 coho salmon return, to date, has passed by Bethel in the last seven days.

Achievement of escapement goals for Chinook salmon is unlikely at several projects, and uncertain for the Kuskokwim River. One escapement project has achieved the escapement goal (George River), while the others will likely be below the lower end (Kogrukluk and Kwethluk rivers). Escapements are higher than the past few years, showing that the restrictions were necessary and were successful at increasing escapement.

Chum salmon escapements are below average for all projects, but all projects are within the historical ranges, and the escapement goal at Kogrukluk was achieved.

Sockeye salmon escapements are all within the historical ranges, and although it appears below average, achievement of the Kogrukluk escapement goal was achieved. Sockeye salmon escapement at other projects appears at or above average.

Coho salmon have started to reach the escapement projects. It is too early to project escapement outcomes.

Further announcements will be made from the Bethel Fish and Game office, on the State of Alaska web site (<http://www.adfg.alaska.gov/index.cfm?adfg=cfnews.main>), and local radio stations. News releases will be faxed to area villages and local fish processing companies.

Informational Packet

For additional information or questions regarding Kuskokwim Area fisheries, contact the Alaska Department of Fish and Game office in Bethel at 543-2433 or toll free at 1-855-933-2433.

Informational Packet

Evaluation of a graduated-field electrode array to guide fish into video chambers for salmon escapement monitoring in Alaska

Quantify the Problem:

Traditional salmon management in Alaska has used diverse approaches to monitor and enumerate adult returns (e.g. counting towers, sonar, tagging and tracking technologies, etc.) In remote areas, resistance-board weirs and picket fences are deployed in efforts to “guide” fish to enumeration traps. However such in-stream installations are extremely labor intensive, required continual maintenance and rebuilding, substrate parameters conducive to installation, high water, and ever increasing operational costs. Local IRA Councils have also asked that other methods such as sonar be considered in place of traditional ‘weirs’ because of the physical obstruction to boat passage and an understanding by many community members that a ‘weir’ is a complete blockage of the river.

Various existing methods were evaluated and all fell short due to: cost (mark-recapture, tagging); the application of technologies in a mixed stock system (sonar); quality of data (aerial, counting towers) and other parameters such as a physical obstruction.

Identify a Solution:

We propose an innovative approach to monitor and enumerate upstream migrating salmon with the use of graduated-field electric array ... the use of non-lethal fish guidance technology to re-direct returning adults to one side of the river channel and through a standard, currently proven and used, video-equipped enumeration system.

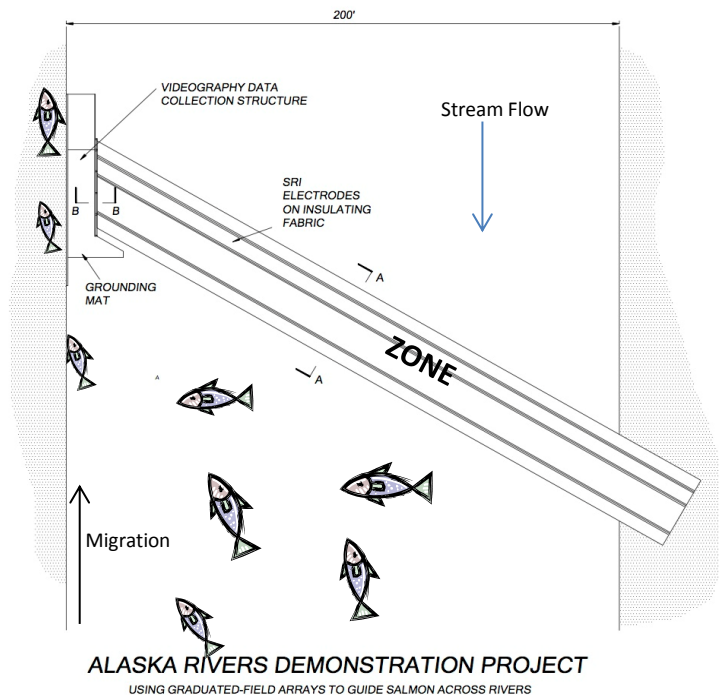
Description:

Non-lethal, pulsed DC systems have been used for various types of fish guidance and deterrence and in some cases complete blockage to non-native species into a system. On a global basis, non-lethal, pulsed DC systems have been successful in blocking upstream movements of invasive fish in the t Midwest, in guiding salmonids to fish ladders or hatchery return ponds, and in keeping fish from entering hydropower draft tubes and tailraces in other countries. However the technology has not previously been used to redirect salmon from one side of the river into a counting chambers on the other.

We propose to test and evaluate this novel fish-guidance approach on Coho Salmon (*Onchorhynchus kisutch*) in a clear water Kenai River tributary (Funny River) during 2015. A successful guidance application will yield important implications for using this technology in other systems (Kuskokwim River tributaries) to monitor salmon returns for subsistence, sport and commercial fisheries.



A non-lethal, pulsed-DC electrical array system with 1-3 1.5Kw pulsers attached with 3 – 5 electrode cables placed on the bottom of the river at a 10 – 30 degree angle to promote salmon guidance towards the opposite bank and through the video system. The enumeration chute is shielded and unaffected by the guidance field using ‘parasitic electrodes’ which contain the guidance field to the guidance zone. Effective pulse frequencies will range from 3-5 HZ (3-5 pulses/sec, pulse width 2.5 ms) and considerably lower than frequencies (15-60 Hz) used by biologist using electrofishing gear and barrier systems. Fields are graduated in nature. Fish feel the intensity of the field, deter from entering and look for an alternate route. Voltage gradient to stop or guide upstream movements typically require less than 1.2 V/cm. This allows small fish (<40 cm) to pass through the field virtually unaffected. Staff will be on sited while in operation.



Graduated-Field Fish Barrier Technology

How It Works:

(Technology developed by Smith-Root in late 1980's)

Operating Concept:

Max power transfer occurs when fish in head-to-tail orientation (parallel) to electric current flow.

Typical upstream-deterrence scenario.

---- Dashed Horizontal Lines = Electric Current
|||| Vertical Bars Represent Electrodes

Informational Packet

Partnerships

This project will assist in developing partnerships between the U.S. Fish and Wildlife Service, Alaska Department of Fish and Game (ADFG), local tribal councils, private entities, and rural organizations. If successful, the application and/or incorporation of this system with other methodologies will greatly enhance capacity building and continue direct participation in the collection of escapement data at other projects used in the management of the commercial and subsistence fisheries occurring on the Kuskokwim River and other areas of the State. This project also will develop and support the organizational structure, professional capability and credibility, and administrative assistance capability of the Fish and Wildlife Service to meet the legislative intent of Section 303 (7) (B) of ANILCA. Consultations are continually ongoing between the U.S. Fish and Wildlife Service and members of the Kuskokwim River Fisheries Consortium, the Kuskokwim Working Group, the local Native Councils, and associations, the Yukon Delta NWR and the State of Alaska. We have been in consultation with ADFG's Sport Fish Division in Kenai to gain support for our study in the Funny River. ADFG has also offered the use of one of their DIDSON sonar units to be used to collect fish behavior data at the guidance array.

Products

Weir escapement counts will be compared to the passage measured at the guidance array/video and fish behavior documented. Feasibility will be determined by the effectiveness of the design and accuracy of the system in the Funny River. Smith-Root Inc. engineers will take calculations and estimate the power and fuel needed for remote sites taking into considerations the size and conductivity of the rivers. Results and data will be presented at public forums and published in the scientific literature during 2016.