

# 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: 6/26/2024

Time: 10:00 am - 12:00 pm

Place: Bethel

Time Called to Order:

Chair:

### 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

Member at Large:  
Member at Large 2:  
Sport Fisher:  
Western Interior RAC:  
Y-K Delta RAC:  
KRITFC:  
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.*

### USFWS MANAGEMENT UPDATE:

### ADF&G MANAGEMENT ACTIONS UNDER CONSIDERATION:

**PEOPLE TO BE HEARD:** *Non-Working Group Members*

### CONTINUING BUSINESS:

- Subsistence Reports: Lowest River, ONC Inseason Subsistence Report, KRITFC Inseason Harvest Report, Lower River, Middle River, Upper River, Headwaters
- Overview of Kuskokwim River salmon run assessment:
  - a. Test Fisheries (Bethel and Aniak):
  - b. Sonar/Weirs/Aerial Surveys/Other:
  - c. Subsistence Division Project Update:
- Commercial Catch Report: N/A
- Processor Report: N/A
- Sport Fish Report:
- Intercept Fishery Report: *optional*
- Weather Forecast:
- Discussion of ADF&G Management considerations and discussion of possible alternatives (recommendations from the Working Group):
- Motion for Discussion and Action:

### OLD BUSINESS:

### NEW BUSINESS:

### 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](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,**  
**Savannah Hollingworth**  
**Working Group Coordinator**



**Orutsararmiut Native Council (ONC) Inseason Harvest Monitoring Weekly Report  
June 25, 2024**

**Comments from June 22, 2024 Opener:**

1 person stated that it is not rough enough for kings and 1 fishers had suggested putting their message in all caps; TRAWLERS! CIVIL WAR! 2 people had said thank you for taking care of us and thanks for opening today. 2 fishers stated that they were happy and another said that they had a good day. 1 person said that his buddy caught 183 fish downriver and to praise god. 1 fisher said that a snag ripped their net and 1 asked when's the next opener? 2 fishers said to keep and leave it open and that they have no dry fish by winter. 1 person said that it was about time we caught some fish and 2 others said to have more openings and fishing. 3 people stated that it was a nice day to go fishing, said you guys are doing a good job, and that it is good to see you guys at night.

The Fish Campers ONC surveyed did not have any comments to say for this opener.

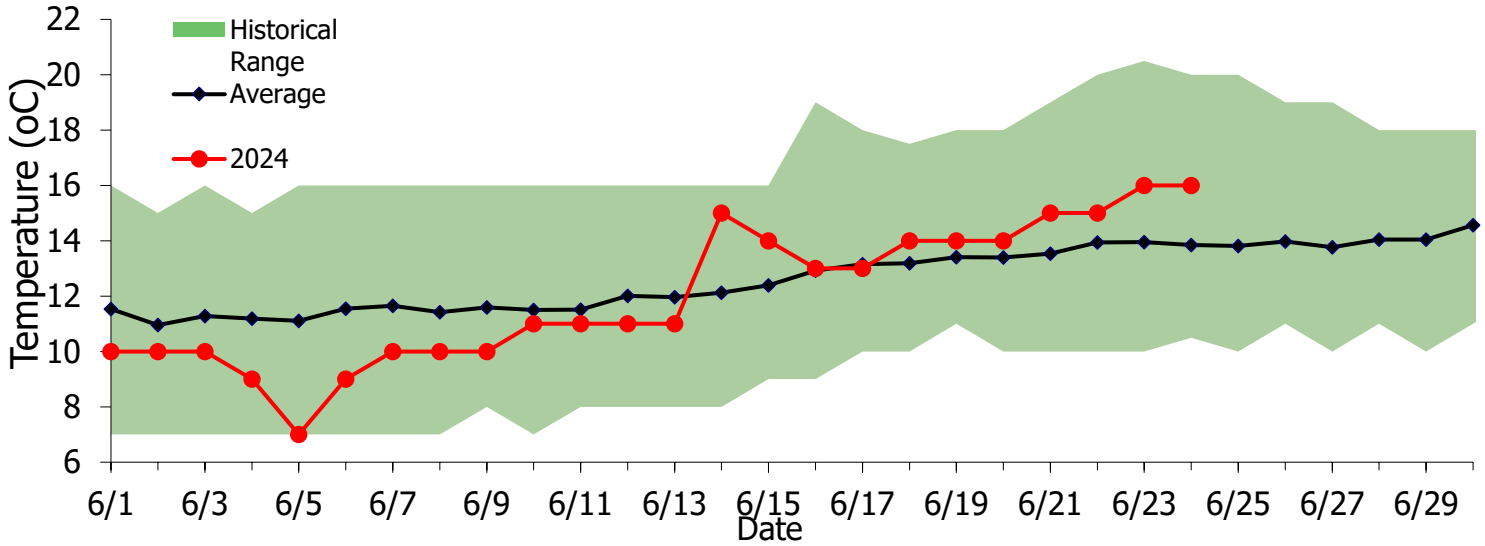
**Table 1.** Average fish harvest, net length, and mesh size range reported by surveyed Bethel area fish camps and Bethel boat harbor from the June 22, 2024 fishing opportunity.

<b>Data Source</b>	<b>Number of Surveys Conducted</b>	<b>Average Chinook Salmon Harvest</b>	<b>Average Chum Salmon Harvest</b>	<b>Average Sockeye Salmon Harvest</b>	<b>Average other harvest</b>	<b>Net Length Range (ft.)</b>	<b>Mesh Size Range (in.)</b>
Bethel Boat Harbor	95	9	6	8	>1	20-300	4-6
Bethel Fish Camps	11	18	7	26	>1	50-300	5-6

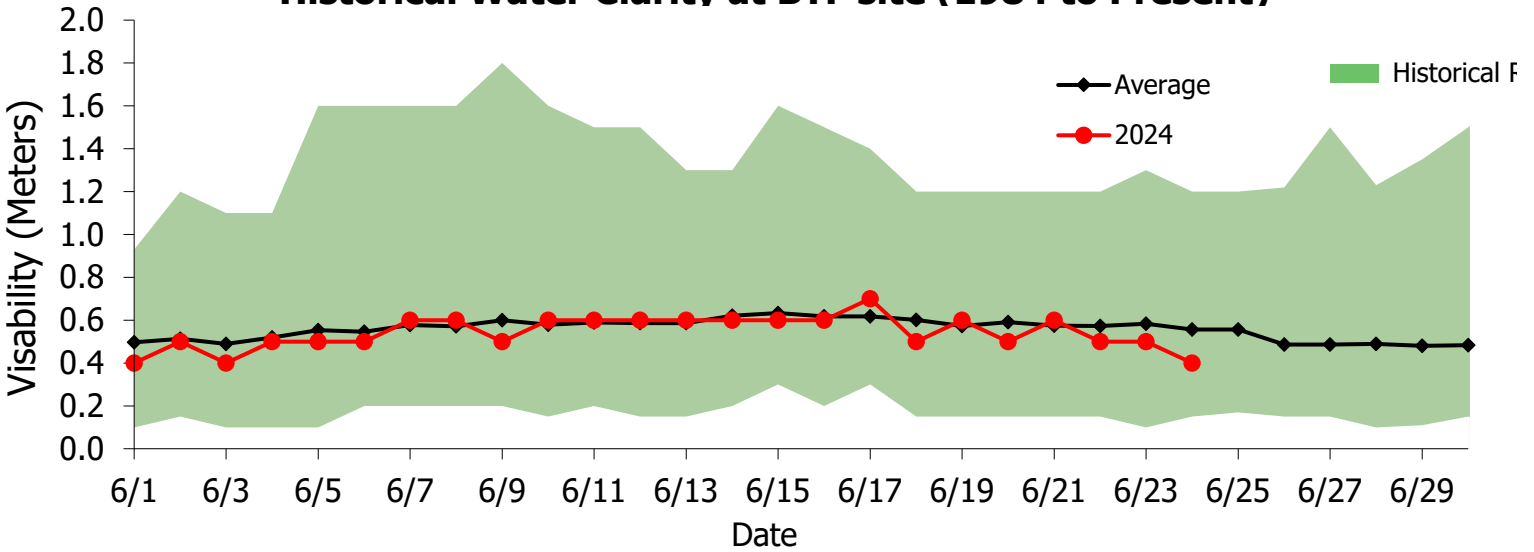
**Fish Distribution**

From June 4, 2024 through June 25, 2024, ONC delivered 84 Chinook salmon, 23 Chum Salmon, 14 Sockeye Salmon, and 1 Whitefish to Bethel area Elders and people in need. These fish were caught by the Alaska Department of Fish & Game Bethel Test Fishery.

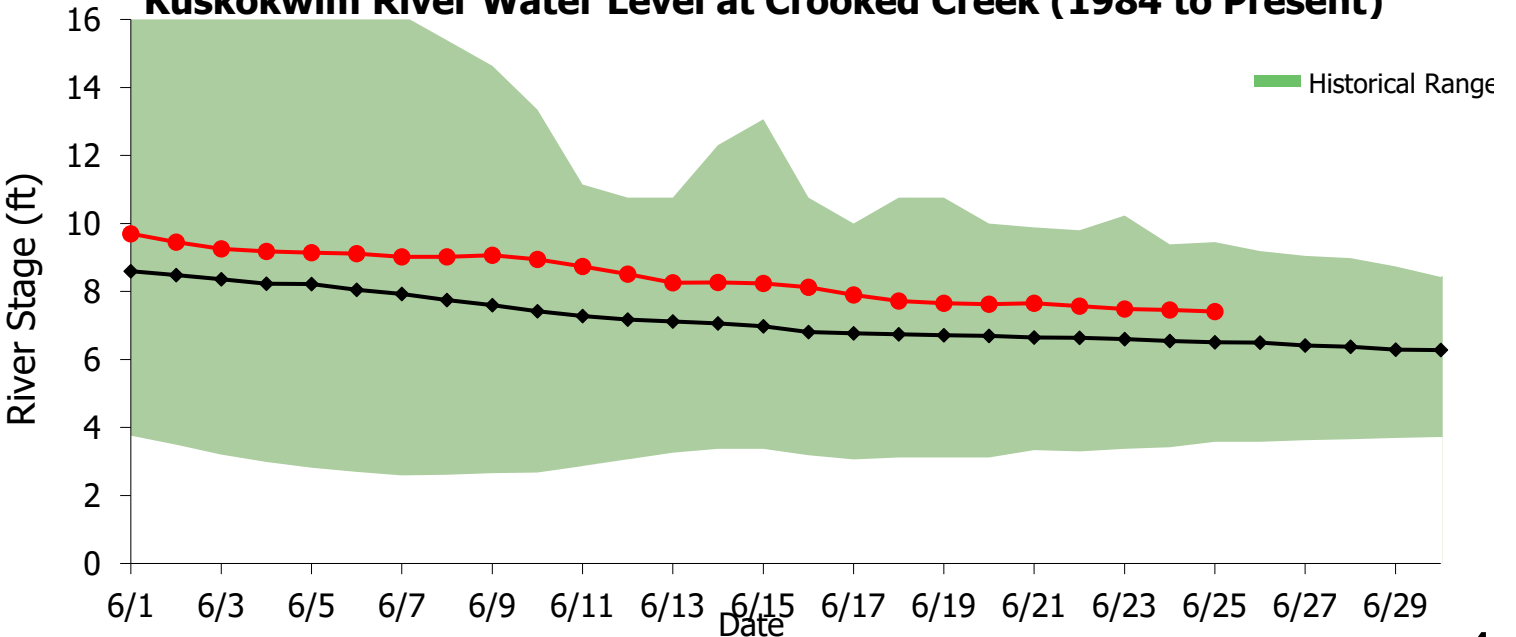
### Historical Water Temperature at BTF Site (1984 to Present)



### Historical Water Clarity at BTF site (1984 to Present)



### Kuskokwim River Water Level at Crooked Creek (1984 to Present)



# Kuskokwim River Salmon Assessment Update

## 6/24/2024

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The data summaries presented in this document are provided by ADF&G. **All data and analyses contained are preliminary and are subject to change, so please make interpretations carefully.**

If you have any questions about the content, please contact Sean Larson (ADF&G; [sean.larson@alaska.gov](mailto:sean.larson@alaska.gov)). Original development of code used to create this document is credited to Benjamin Staton.

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#### Abbreviations:

- BTF: Bethel Test Fishery
- ATF: Aniak Test Fishery
- CPUE: Catch-per-unit-effort
- EOS: End-of-Season
- ADF&G: Alaska Department of Fish and Game
- KRITFC: Kuskokwim River Inter-tribal Fisheries Commission
- OTNC: Orutsaramiut Traditional Native Council
- USFWS: United States Fish and Wildlife Service
- YDNWR: Yukon Delta National Wildlife Refuge

To view escapement information, please visit the ADF&G Kuskokwim River Fish Counts page:

- <http://www.adfg.alaska.gov/index.cfm?adfg=commercialbyareakuskokwim.salmon#fishcounts>

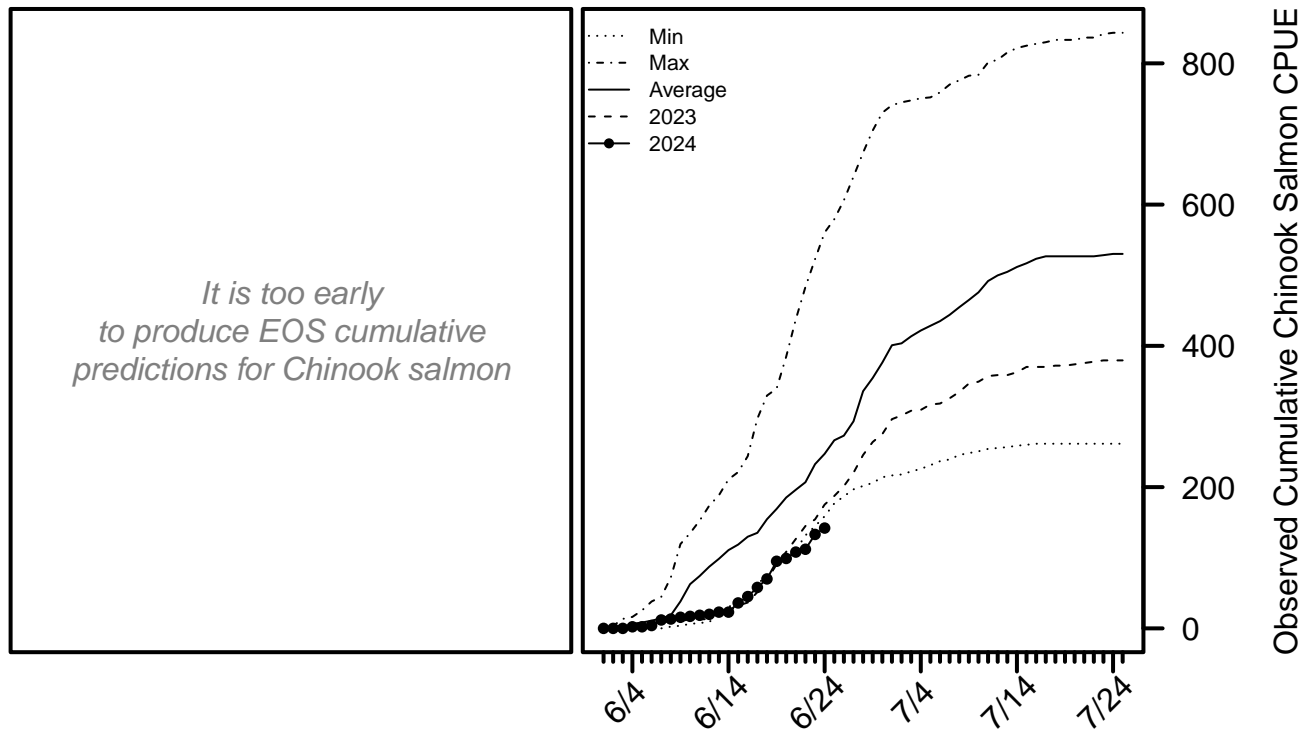
For the most up-to-date information regarding fishing opportunities please visit:

- USFWS: [https://www.fws.gov/refuge/yukon\\_delta/wildlife\\_and\\_habitat/dailyupdate.html](https://www.fws.gov/refuge/yukon_delta/wildlife_and_habitat/dailyupdate.html)
- ADF&G: <http://www.adfg.alaska.gov/index.cfm?adfg=cfnews.main>

## Chinook Salmon BTF Summary (6/24)

- The BTF daily CPUE was **9**.
- The BTF cumulative CPUE is now **142**.
- **0%** years since 2008 fell below this cumulative CPUE on this date.
- **46% - 68%** of the run is likely complete based historical run timing.

**Chinook Salmon Figure 1.** *Left:* will show predicted cumulative EOS BTF CPUE according to various run timing scenarios when enough data have been collected. *Right:* The cumulative BTF CPUE from 2024 plotted along with the prior year, a year with an average (2008-2023) cumulative CPUE, and years with the minimum and maximum (2008-2023) cumulative CPUEs.



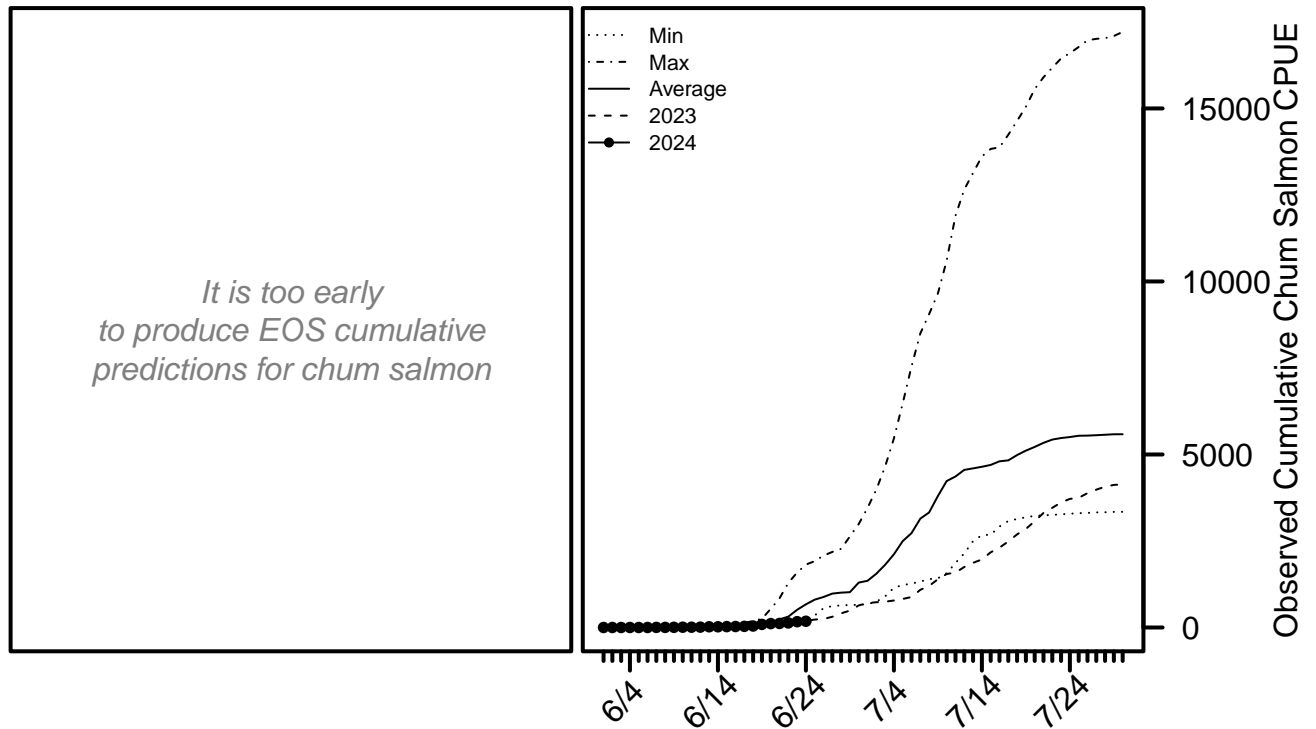
For more detailed information, see the [Chinook salmon appendix](#) at the end of this document.

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## Chum Salmon BTF Summary (6/24)

- The BTF daily CPUE was **13**.
- The BTF cumulative CPUE is now **180**.
- **20%** years since 2008 fell below this cumulative CPUE on this date.
- **6% - 21%** of the run is likely complete based historical run timing.

**Chum Salmon Figure 1.** *Left:* will show predicted cumulative EOS BTF CPUE according to various run timing scenarios when enough data have been collected. *Right:* The cumulative BTF CPUE from 2024 plotted along with the prior year, a year with an average (1984-2023) cumulative CPUE, and years with the minimum and maximum cumulative CPUEs.



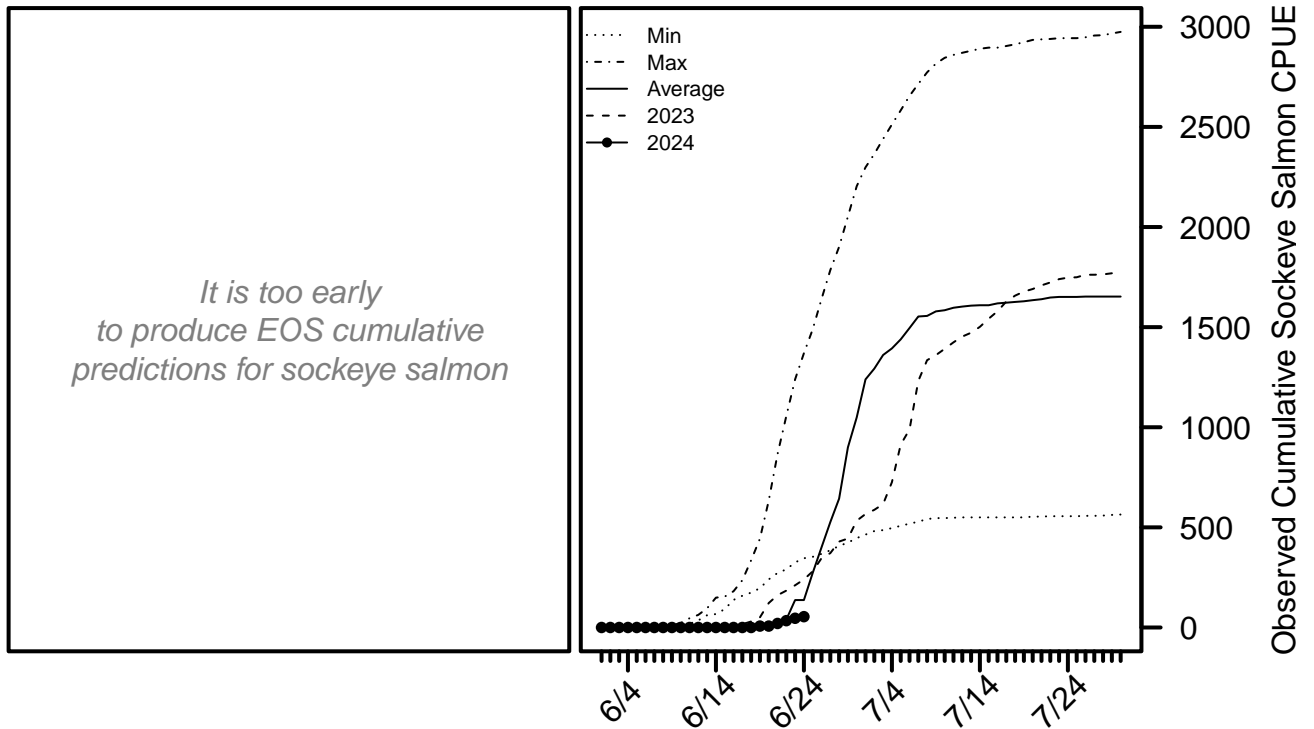
For more detailed information, see the [chum salmon appendix](#) at the end of this document.

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## Sockeye Salmon BTF Summary (6/24)

- The BTF daily CPUE was **8**.
- The BTF cumulative CPUE is now **54**.
- **0%** years since 2008 fell below this cumulative CPUE on this date.
- **15% - 39%** of the run is likely complete based historical run timing.

**Sockeye Salmon Figure 1.** *Left:* will show predicted cumulative EOS BTF CPUE according to various run timing scenarios when enough data have been collected. *Right:* The cumulative BTF CPUE from 2024 plotted along with the prior year, a year with an average (1984-2023) cumulative CPUE, and years with the minimum and maximum cumulative CPUEs.



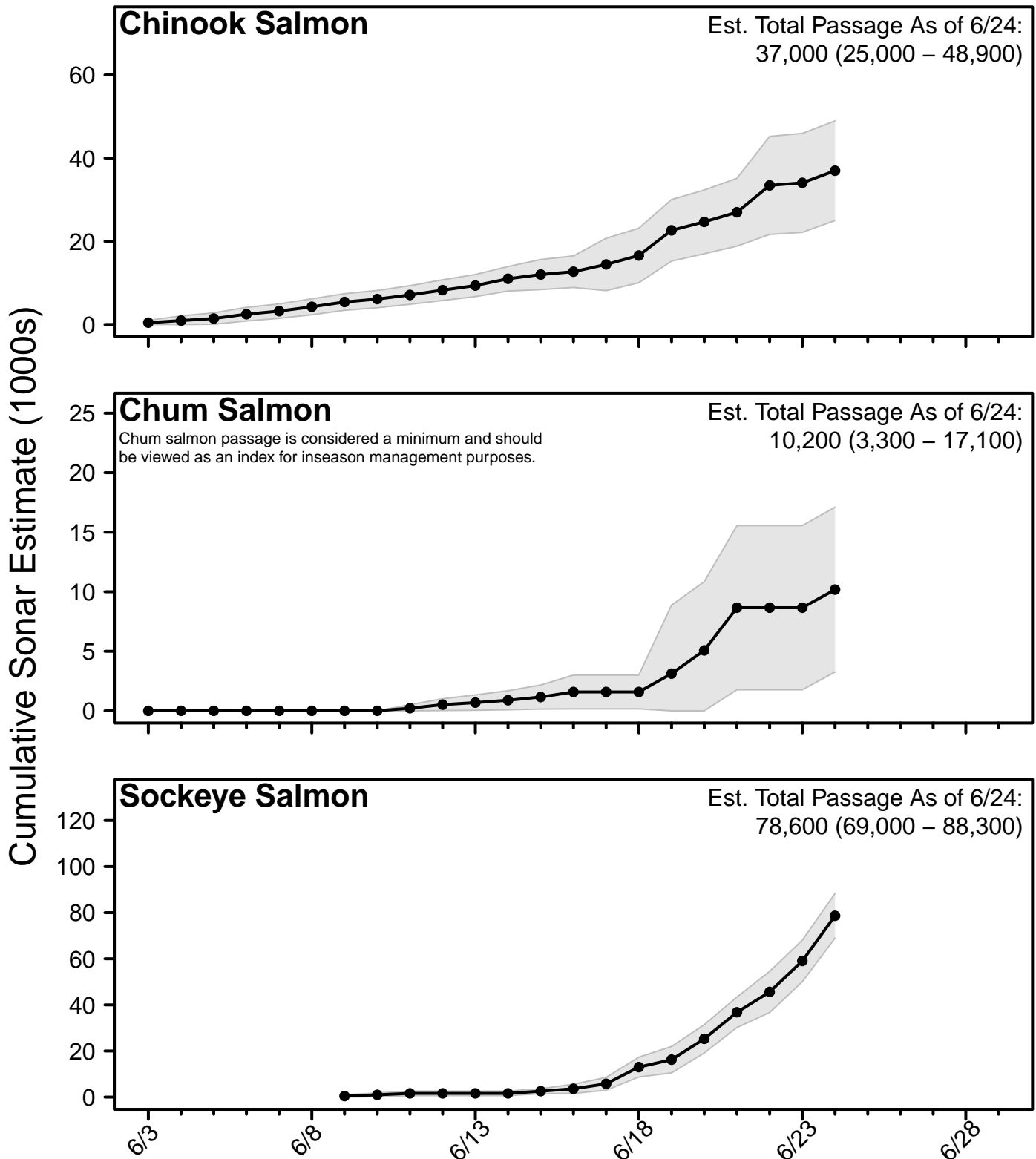
For more detailed information, see the [sockeye salmon appendix](#) at the end of this document.

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# Sonar Passage Estimates

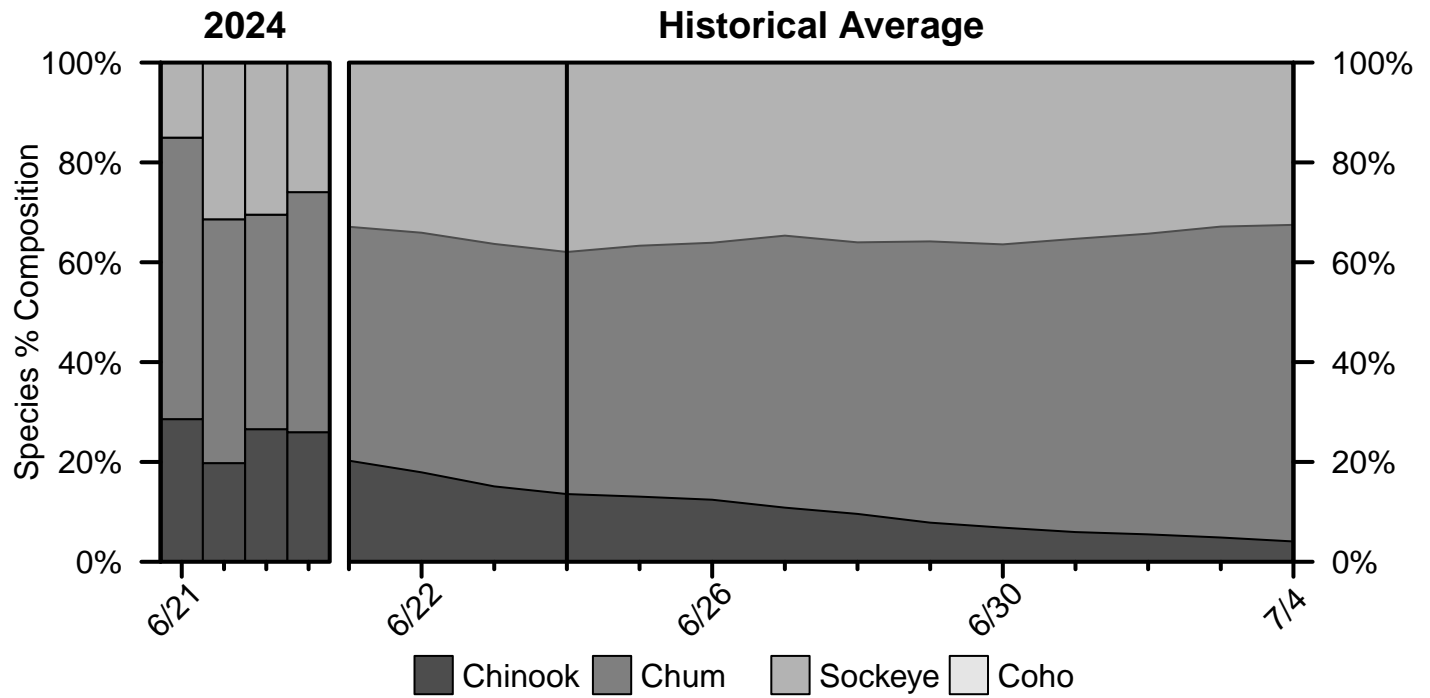
**Sonar Figure 1.** Cumulative estimates of salmon passage from the 2024 sonar operation. Grey bands show the 95% confidence intervals. *Note: Estimates are subject to change.*



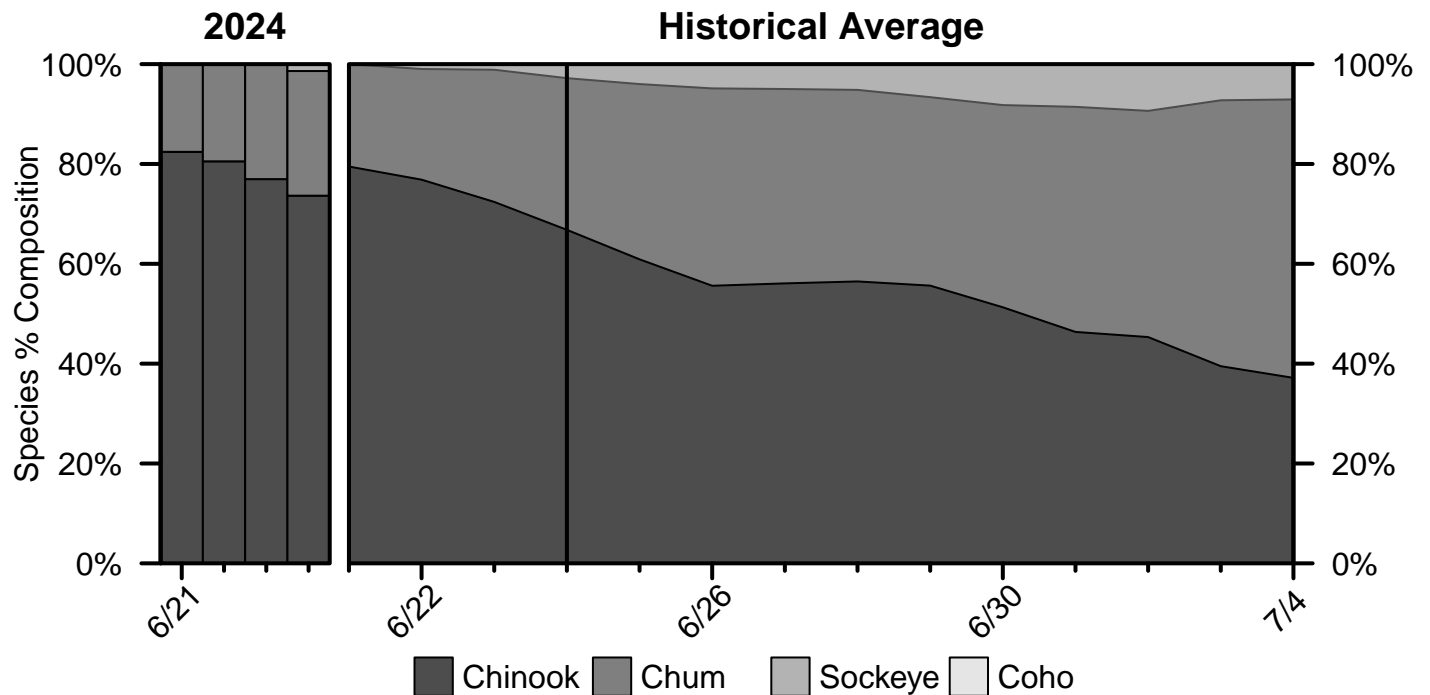
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## Percent Composition by Salmon Species

**Percent Composition Figure 1.** Species percent composition in the BTF from 2024 and based on the historical average. The composition presented on each day represents the average composition over the past 2 days.



**Percent Composition Figure 2.** Species percent composition in the ATF from 2024 and based on the historical average. The composition presented on each day represents the average composition over the past 2 days.



# Chinook Salmon Appendix

**Chinook Salmon Table A1.** Cumulative CPUE from the BTF.

Date	2024	2023	2022	2021	2020	5-Yr Avg.	2008 - 2023 Avg.
6/21	108	127	198	196	176	227	235
6/22	112	145	200	207	182	243	255
6/23	133	154	222	232	197	266	279
6/24	<b>142</b>	<b>175</b>	<b>251</b>	<b>247</b>	<b>203</b>	<b>287</b>	<b>301</b>
6/25		187	272	266	230	307	321
6/26		201	295	273	262	328	345
6/27		220	325	293	274	350	364
EOS		382	504	532	487	551	550

**Chinook Salmon Table A2.** Cumulative CPUE from the ATF.

Date	2024	2023	2022	2021	2020	2019	2018
6/21	67	20	157	387	245	836	165
6/22	96	33	213	464	285	953	172
6/23	191	40	284	554	311	973	172
6/24	<b>270</b>	<b>139</b>	<b>318</b>	<b>624</b>	<b>357</b>	<b>1,023</b>	<b>180</b>
6/25		204	386	677	403	1,139	218
6/26		244	477	752	487	1,181	245
6/27		257	547	823	554	1,321	280
EOS		748	1,277	1,891	1,874	1,691	820

**Chinook Salmon Table A3.** Cumulative passage at the Kuskokwim River sonar. *Note: Estimates are subject to change.*

Date	2024	2023	2022	2021	2020	2019	2018
6/21	26,994	23,437	35,356	29,403	22,943	74,343	32,520
6/22	33,442	25,228	58,532	32,528	25,548	87,113	37,818
6/23	34,054	26,894	65,635	34,004	28,388	93,957	45,728
6/24	<b>36,974</b>	<b>29,715</b>	<b>71,438</b>	<b>37,265</b>	<b>31,008</b>	<b>99,741</b>	<b>55,178</b>
6/25		31,179	76,191	41,053	33,943	103,507	64,394
6/26		32,135	82,439	42,512	38,186	109,366	69,250
6/27		34,341	88,190	46,842	41,347	115,741	77,796
EOS		79,166	145,896	102,549	106,764	161,888	132,971

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# Chum Salmon Appendix

**Chum Salmon Table A1.** Cumulative CPUE from the BTF.

Date	2024	2023	2022	2021	2020	5-Yr Avg.	2008 - 2023 Avg.
<b>6/21</b>	117	137	14	14	40	60	272
<b>6/22</b>	131	155	14	14	44	67	340
<b>6/23</b>	167	168	14	17	50	87	421
<b>6/24</b>	<b>180</b>	<b>189</b>	<b>26</b>	<b>17</b>	<b>50</b>	<b>101</b>	<b>489</b>
<b>6/25</b>		229	36	25	59	121	566
<b>6/26</b>		246	75	28	71	143	669
<b>6/27</b>		309	149	33	95	189	799
<b>EOS</b>		4,303	2,193	327	1,442	2,938	5,509

**Chum Salmon Table A2.** Cumulative CPUE from the ATF.

Date	2024	2023	2022	2021	2020	2019	2018
<b>6/21</b>	11	0	0	6	45	5	168
<b>6/22</b>	11	0	7	6	52	5	209
<b>6/23</b>	51	6	7	13	59	19	264
<b>6/24</b>	<b>80</b>	<b>19</b>	<b>7</b>	<b>13</b>	<b>65</b>	<b>31</b>	<b>286</b>
<b>6/25</b>		64	7	19	86	88	401
<b>6/26</b>		70	19	19	148	177	561
<b>6/27</b>		76	19	19	169	266	928
<b>EOS</b>		996	952	267	2,611	1,051	10,277

**Chum Salmon Table A3.** Cumulative passage at the Kuskokwim River sonar. *Note: Chum salmon passage is considered a minimum and should be viewed as an index for inseason management purposes. Estimates are subject to change.*

Date	2024	2023	2022	2021	2020	2019	2018
<b>6/21</b>	8,662	1,382	0	320	954	1,010	3,082
<b>6/22</b>	8,662	3,283	0	620	1,192	1,641	7,420
<b>6/23</b>	8,662	3,283	201	1,113	2,804	2,769	9,531
<b>6/24</b>	<b>10,182</b>	<b>3,422</b>	<b>201</b>	<b>1,113</b>	<b>2,804</b>	<b>4,406</b>	<b>14,780</b>
<b>6/25</b>		4,733	784	3,224	3,207	4,712	18,310
<b>6/26</b>		5,357	784	3,224	3,803	5,853	21,308
<b>6/27</b>		7,279	3,350	3,224	4,254	9,353	26,213
<b>EOS</b>		251,542	103,864	26,973	76,432	385,409	552,011

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# Sockeye Salmon Appendix

**Sockeye Salmon Table A1.** Cumulative CPUE from the BTF.

Date	2024	2023	2022	2021	2020	5-Yr Avg.	2008 - 2023 Avg.
<b>6/21</b>	20	161	64	78	43	86	125
<b>6/22</b>	34	184	72	93	56	109	162
<b>6/23</b>	46	211	98	105	68	131	201
<b>6/24</b>	<b>54</b>	<b>240</b>	<b>138</b>	<b>139</b>	<b>74</b>	<b>159</b>	<b>241</b>
<b>6/25</b>		280	174	186	90	189	285
<b>6/26</b>		346	277	200	136	236	335
<b>6/27</b>		371	386	274	168	294	385
<b>EOS</b>		1,788	1,372	1,694	1,060	1,720	1,749

**Sockeye Salmon Table A2.** Cumulative CPUE from the ATF.

Date	2024	2023	2022	2021	2020	2019	2018
<b>6/21</b>	0	0	6	0	0	0	0
<b>6/22</b>	0	0	6	6	0	0	0
<b>6/23</b>	0	0	6	13	0	0	0
<b>6/24</b>	<b>4</b>	<b>13</b>	<b>13</b>	<b>19</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>6/25</b>		26	25	19	0	11	0
<b>6/26</b>		32	31	32	0	22	0
<b>6/27</b>		32	31	38	0	22	0
<b>EOS</b>		369	129	241	209	33	75

**Sockeye Salmon Table A3.** Cumulative passage at the Kuskokwim River sonar. *Note: Estimates are subject to change.*

Date	2024	2023	2022	2021	2020	2019	2018
<b>6/21</b>	36,794	23,192	40,607	46,653	23,228	37,629	10,221
<b>6/22</b>	45,621	35,036	49,255	52,899	27,955	46,435	11,174
<b>6/23</b>	59,058	37,703	64,681	63,034	32,894	60,630	12,952
<b>6/24</b>	<b>78,649</b>	<b>46,544</b>	<b>90,917</b>	<b>69,583</b>	<b>39,676</b>	<b>74,749</b>	<b>16,107</b>
<b>6/25</b>		56,292	108,711	84,910	48,198	83,670	17,047
<b>6/26</b>		75,492	148,724	95,469	63,645	119,368	22,921
<b>6/27</b>		103,647	182,449	107,050	80,236	140,558	26,986
<b>EOS</b>		899,180	613,874	869,268	574,928	924,354	635,493

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# Kuskokwim River In-season Harvest and Effort Estimates

## 6/22/2024 Subsistence Harvest Opportunity (Drift & Set Nets)

Opportunity Time Period: 7:00 AM – 7:00 PM (12 Hours)

Area Covered by Estimates: Tuntutuliak ↔ Bogus Cr.



## Data Sources

**TABLE 1.** The number and percent of fisher interviews conducted by location and organization.

Data Source	Interviews	Percent
Other Villages (KRITFC)	101	50%
Bethel Boat Harbor (ONC)	92	45%
Bethel Area Fish Camps (ONC)	11	5%
<b>Total</b>	<b>204</b>	<b>100%</b>

Of these interviews, **192** were from drift nets and **12** were from set nets.

**TABLE 2.** The time each flight was conducted and fishers counted each flight.

Time Information			Nets Counted	
Start Time	End Time	Hours	Drift	Set
9:11 AM	11:31 AM	2.33	387	39
4:03 PM	6:51 PM	2.80	198	28

## Effort Estimates

- An estimated **476** drift boat trips occurred.
  - An estimated **67%** of the trips counted on flight 2 were also counted on flight 1.
  - An estimated **23** trips started and ended when no flights occurred.
- An estimated **39** set net trips occurred.

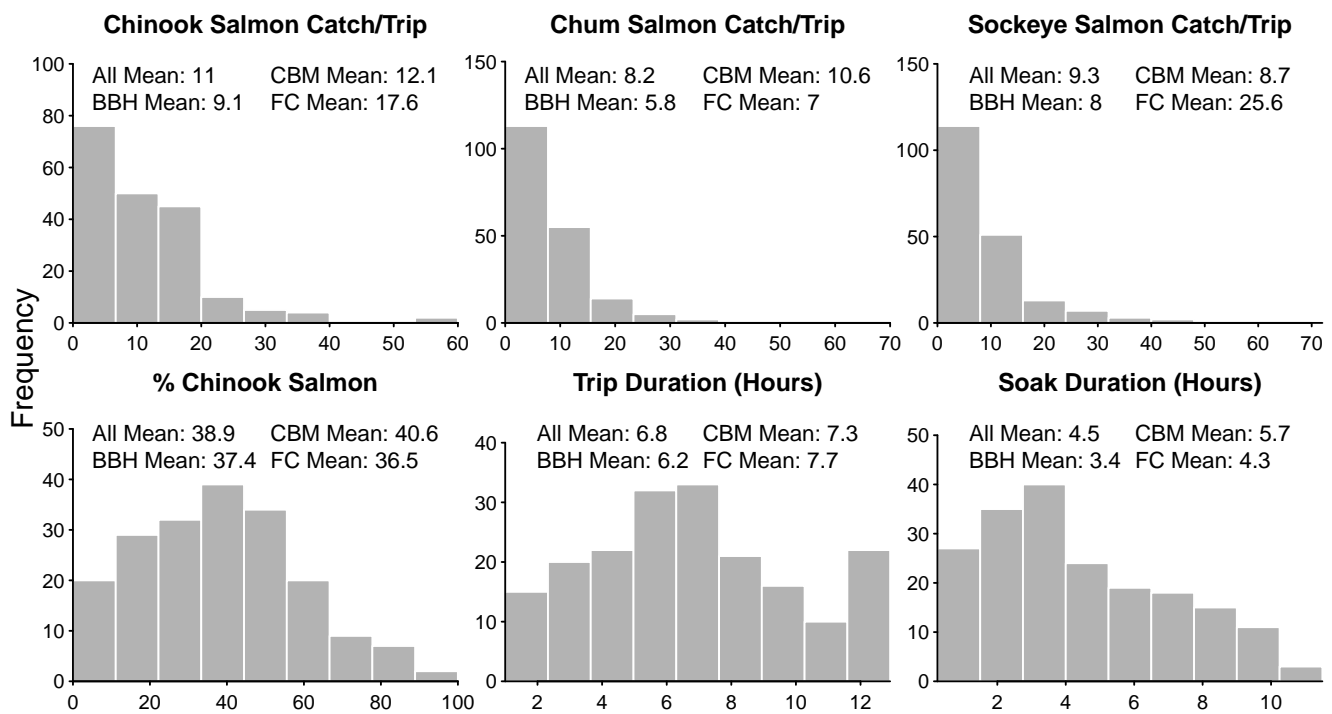
## Harvest Estimates

- An estimated total of **24,284 (19,724 – 29,481)** salmon were harvested.
  - An estimated total of **8,468 (6,638 – 10,345)** Chinook salmon were harvested.
  - An estimated total of **7,649 (5,746 – 9,647)** chum salmon were harvested.
  - An estimated total of **8,167 (6,026 – 10,754)** sockeye salmon were harvested.
- Harvest by set nets accounted for an estimated **1,871 (300 – 4,852)** total salmon (**41%** Chinook salmon, **6%** chum salmon, and **53%** sockeye salmon).

**TABLE 3.** Summaries by river stratum (area) for drift nets. Numbers in parentheses are 95% confidence intervals.

Stratum	Interviews	Effort Est.	Estimated Harvest			
			Chinook	Chum	Sockeye	Total
Tuntutuliak ↔ Johnson R.	29	118	2,877 (1,645 – 4,320)	4,256 (2,469 – 6,187)	2,876 (1,561 – 4,788)	<b>10,010</b> (6,278 – 14,351)
Johnson R. ↔ Napaskiak	58	77	1,412 (982 – 1,946)	824 (522 – 1,242)	1,171 (844 – 1,564)	<b>3,407</b> (2,493 – 4,581)
Napaskiak ↔ Akiachak	78	207	2,360 (1,882 – 2,892)	1,690 (1,225 – 2,274)	2,598 (1,893 – 3,441)	<b>6,648</b> (5,344 – 8,140)
Akiachak ↔ Akiak	10	41	592 (372 – 820)	336 (109 – 609)	421 (217 – 701)	<b>1,349</b> (1,095 – 1,710)
Akiak ↔ Bogus Cr.	17	33	465 (243 – 733)	419 (284 – 553)	114 (43 – 199)	<b>999</b> (642 – 1,395)
<b>Total</b>	<b>192</b>	<b>476</b>	<b>7,707</b> (6,247 – 9,396)	<b>7,526</b> (5,603 – 9,549)	<b>7,180</b> (5,588 – 9,237)	<b>22,413</b> (18,273 – 27,001)

**FIGURE 1.** Distributions of relevant quantities from all completed trips using drift nets. The mean quantity by primary data source is shown in the top right; BBH = Bethel Boat Harbor (ONC), CBM = Other Villages (KRITFC), FC = Bethel Area Fish Camps (ONC).



## Appendix A: Detailed Interview Summaries

### Column Meanings

- **Area:** the area of the river the trip occurred in
- **N:** the number of interviews with usable information in each area
- **Min:** the minimum value among trips in each area
- **25%:** the value that 25% of trips fell below in each area
- **Mean:** the average value across trips in each area
- **75%:** the value that 75% of trips fell below in each area
- **Max:** the maximum value among trips in each area

*Information is for drift net trips only.*

**TABLE A1.** Summary of drift net catch per trip of Chinook salmon by fishing area.

Area	N	Min	25%	Mean	75%	Max
Tuntutuliak ↔ Johnson R.	29	0	6	11	16	23
Johnson R. ↔ Napaskiak	58	0	6	12	18	40
Napaskiak ↔ Akiachak	78	0	3	9	14	55
Akiachak ↔ Akiak	10	3	4	11	16	26
Akiak ↔ Bogus Cr.	17	0	2	15	20	60
<b>All</b>	<b>192</b>	<b>0</b>	<b>4</b>	<b>11</b>	<b>15</b>	<b>60</b>

**TABLE A2.** Summary of drift net catch rate of Chinook salmon by fishing area (fish per 150 feet of net per hour).

Area	N	Min	25%	Mean	75%	Max
Tuntutuliak ↔ Johnson R.	29	0	0.8	4.3	3.8	30
Johnson R. ↔ Napaskiak	58	0	2	4.8	4.4	42
Napaskiak ↔ Akiachak	77	0	1	2.9	3.5	17
Akiachak ↔ Akiak	10	0.4	0.8	2.2	3.1	5.3
Akiak ↔ Bogus Cr.	17	0	0.3	1.2	1.9	5.5
<b>All</b>	<b>191</b>	<b>0</b>	<b>1</b>	<b>3.5</b>	<b>3.9</b>	<b>42</b>

**TABLE A3.** Summary of drift net catch per trip of chum salmon by fishing area.

Area	N	Min	25%	Mean	75%	Max
Tuntutuliak ↔ Johnson R.	29	0	4	15	20	70
Johnson R. ↔ Napaskiak	58	0	2	6	9	28
Napaskiak ↔ Akiachak	78	0	2	6	9	56
Akiachak ↔ Akiak	10	1	1	6	6	20
Akiak ↔ Bogus Cr.	17	0	9	12	15	30
<b>All</b>	<b>192</b>	<b>0</b>	<b>2</b>	<b>8</b>	<b>11</b>	<b>70</b>



**TABLE A4.** Summary of drift net catch rate of chum salmon by fishing area (fish per 150 feet of net per hour).

Area	N	Min	25%	Mean	75%	Max
Tuntutuliak ↔ Johnson R.	29	0	0.5	6.4	6.3	36
Johnson R. ↔ Napaskiak	58	0	0.5	2.8	3.2	40
Napaskiak ↔ Akiachak	77	0	0.7	2.1	2.7	20
Akiachak ↔ Akiak	10	0.1	0.3	1.3	0.9	6
Akiak ↔ Bogus Cr.	17	0	0.7	1.1	1.5	2.7
<b>All</b>	<b>191</b>	<b>0</b>	<b>0.6</b>	<b>2.8</b>	<b>2.8</b>	<b>40</b>

**TABLE A5.** Summary of drift net catch per trip of sockeye salmon by fishing area.

Area	N	Min	25%	Mean	75%	Max
Tuntutuliak ↔ Johnson R.	29	0	3	11	10	64
Johnson R. ↔ Napaskiak	58	0	3	10	16	41
Napaskiak ↔ Akiachak	78	0	3	9	13	72
Akiachak ↔ Akiak	10	1	4	9	12	20
Akiak ↔ Bogus Cr.	17	0	0	4	5	20
<b>All</b>	<b>192</b>	<b>0</b>	<b>3</b>	<b>9</b>	<b>13</b>	<b>72</b>

**TABLE A6.** Summary of drift net catch rate of sockeye salmon by fishing area (fish per 150 feet of net per hour).

Area	N	Min	25%	Mean	75%	Max
Tuntutuliak ↔ Johnson R.	29	0	0.3	4.4	4.8	43.9
Johnson R. ↔ Napaskiak	58	0	1.1	3.9	4.4	32
Napaskiak ↔ Akiachak	77	0	1	3.2	3.8	33.3
Akiachak ↔ Akiak	10	0.5	0.7	1.6	1.3	6
Akiak ↔ Bogus Cr.	17	0	0	0.3	0.5	1.1
<b>All</b>	<b>191</b>	<b>0</b>	<b>0.7</b>	<b>3.3</b>	<b>3.7</b>	<b>43.9</b>

**TABLE A7.** Summary of drift net percent composition of Chinook salmon by fishing area.

Area	N	Min	25%	Mean	75%	Max
Tuntutuliak ↔ Johnson R.	29	0%	17%	35%	50%	100%
Johnson R. ↔ Napaskiak	58	0%	32%	42%	50%	100%
Napaskiak ↔ Akiachak	78	0%	20%	37%	50%	79%
Akiachak ↔ Akiak	10	7%	23%	45%	69%	80%
Akiak ↔ Bogus Cr.	17	0%	29%	42%	57%	88%
<b>All</b>	<b>192</b>	<b>0%</b>	<b>22%</b>	<b>39%</b>	<b>52%</b>	<b>100%</b>

**TABLE A8.** Summary of drift net trip duration by fishing area.

<b>Area</b>	<b>N</b>	<b>Min</b>	<b>25%</b>	<b>Mean</b>	<b>75%</b>	<b>Max</b>
<b>Tuntutuliak ↔ Johnson R.</b>	29	1	5	6.6	8	12.9
<b>Johnson R. ↔ Napaskiak</b>	58	1.5	4.3	5.9	7.6	11.8
<b>Napaskiak ↔ Akiachak</b>	77	1.5	3.9	6.1	8	12.9
<b>Akiachak ↔ Akiak</b>	10	4	7.2	8.6	10.8	12
<b>Akiak ↔ Bogus Cr.</b>	17	12	12	12	12	12
<b>All</b>	<b>191</b>	<b>1</b>	<b>4.5</b>	<b>6.8</b>	<b>8.9</b>	<b>12.9</b>

**TABLE A9.** Summary of drift net active fishing hours by fishing area.

<b>Area</b>	<b>N</b>	<b>Min</b>	<b>25%</b>	<b>Mean</b>	<b>75%</b>	<b>Max</b>
<b>Tuntutuliak ↔ Johnson R.</b>	29	0.3	2	3.8	5	9
<b>Johnson R. ↔ Napaskiak</b>	58	0.2	2.5	4.3	5.5	10
<b>Napaskiak ↔ Akiachak</b>	77	0.3	2	4	6	10
<b>Akiachak ↔ Akiak</b>	10	1.5	3.1	6.7	9.8	10
<b>Akiak ↔ Bogus Cr.</b>	17	3.5	5	7.9	10	11.5
<b>All</b>	<b>191</b>	<b>0.2</b>	<b>2.5</b>	<b>4.6</b>	<b>6.5</b>	<b>11.5</b>

## Appendix B: Non-salmon Harvest Information

- An estimated total of **376 (125 – 822)** nonsalmon were harvested.
  - An estimated total of **63 (33 – 103)** sheefish were harvested.
  - An estimated total of **313 (73 – 760)** all whitefishes were harvested.
- Harvest by set nets accounted for an estimated **48 (9 – 101)** total nonsalmon (**0%** sheefish and **100%** all whitefishes).

**TABLE B1.** Summaries by river stratum (area) for drift nets. Numbers in parentheses are 95% confidence intervals.

Stratum	Interviews	Effort Est.	Estimated Harvest		
			Sheefish	Whitefish	Total
Tuntutuliak ↔ Johnson R.	29	118	0 (0 – 0)	207 (0 – 642)	<b>207</b> (0 – 642)
Johnson R. ↔ Napaskiak	58	77	29 (8 – 61)	9 (2 – 18)	<b>37</b> (14 – 71)
Napaskiak ↔ Akiachak	78	207	17 (3 – 35)	22 (4 – 47)	<b>39</b> (13 – 76)
Akiachak ↔ Akiak	10	41	0 (0 – 0)	0 (0 – 0)	<b>0</b> (0 – 0)
Akiak ↔ Bogus Cr.	17	33	18 (5 – 36)	27 (9 – 47)	<b>45</b> (14 – 80)
<b>Total</b>	<b>192</b>	<b>476</b>	<b>63</b> (33 – 103)	<b>265</b> (41 – 707)	<b>328</b> (85 – 776)

**TABLE B2.** Summary of drift net catch per trip of sheefish by fishing area.

Area	N	Min	25%	Mean	75%	Max
Tuntutuliak ↔ Johnson R.	29	0	0	0	0	0
Johnson R. ↔ Napaskiak	58	0	0	0	0	2
Napaskiak ↔ Akiachak	78	0	0	0	0	4
Akiachak ↔ Akiak	10	0	0	0	0	0
Akiak ↔ Bogus Cr.	17	0	0	1	1	5
<b>All</b>	<b>192</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5</b>

**TABLE B3.** Summary of drift net catch per trip of all whitefishes by fishing area.

Area	N	Min	25%	Mean	75%	Max
Tuntutuliak ↔ Johnson R.	29	0	0	0	0	9
Johnson R. ↔ Napaskiak	58	0	0	0	0	4
Napaskiak ↔ Akiachak	78	0	0	0	0	3
Akiachak ↔ Akiak	10	0	0	0	0	0
Akiak ↔ Bogus Cr.	17	0	0	1	2	3
<b>All</b>	<b>192</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>9</b>