

# 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: 6/19/2024

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**



**Orutsarmiut Native Council (ONC) Inseason Harvest Monitoring Weekly Report  
June 17, 2024**

**Comments from June 16, 2024 Opener:**

3 fishers had stated that they would like some more fishing, 1 said to do something about the trawlers, and 2 thanked us for letting them have the opportunity to fish. 1 mentioned that it is so hot out and another said that it would be better if they left it open. 2 had asked when is the next opener and if there will be any more. A few people had said that there are a lot of people, that it is slow going, and to quit meeting. 2 fishers want more openings and to have daily openings and another 2 said they are only getting what they can handle and to let us fish more.

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

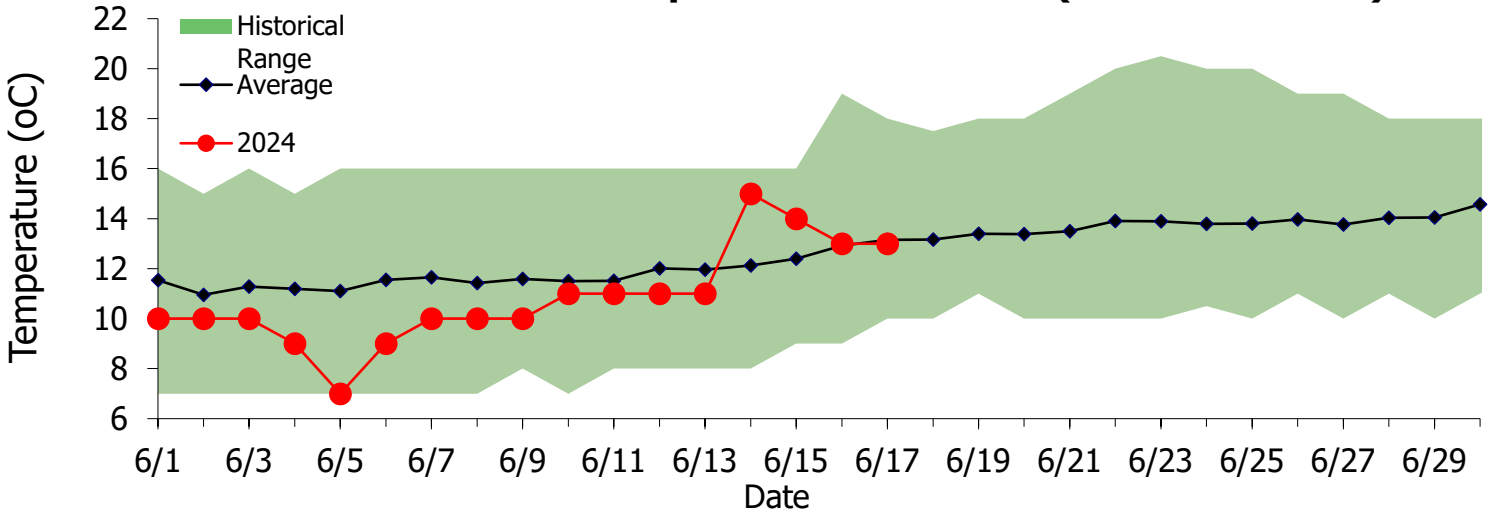
**Table 1.** Average fish harvest, net length, and mesh size range reported by surveyed Bethel area fish camps and Bethel boat harbor from the June 16, 2024 fishing opportunity.

<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	118	8	2	1	>1	40-300	4-6
Bethel Fish Camps	21	13	2	2	>1	75-300	5.25-6

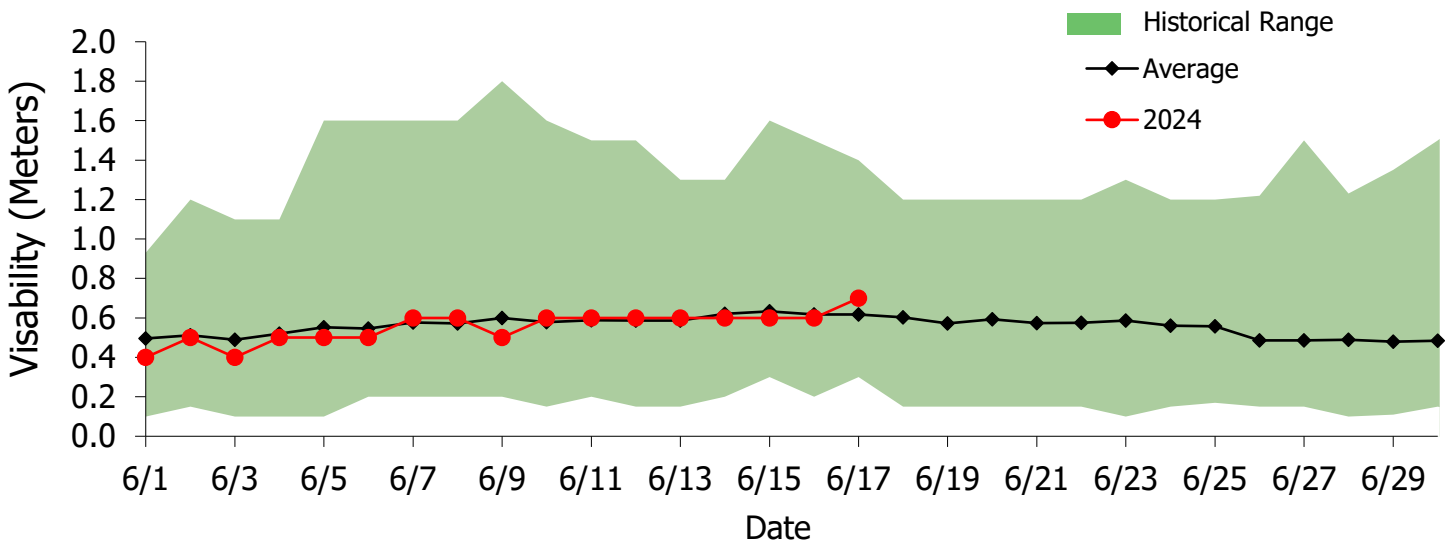
**Fish Distribution**

From June 4, 2024 through June 17, 2024, ONC delivered 29 Chinook salmon to Bethel area Elders. These fish were caught by the Alaska Department of Fish & Game Bethel Test Fishery.

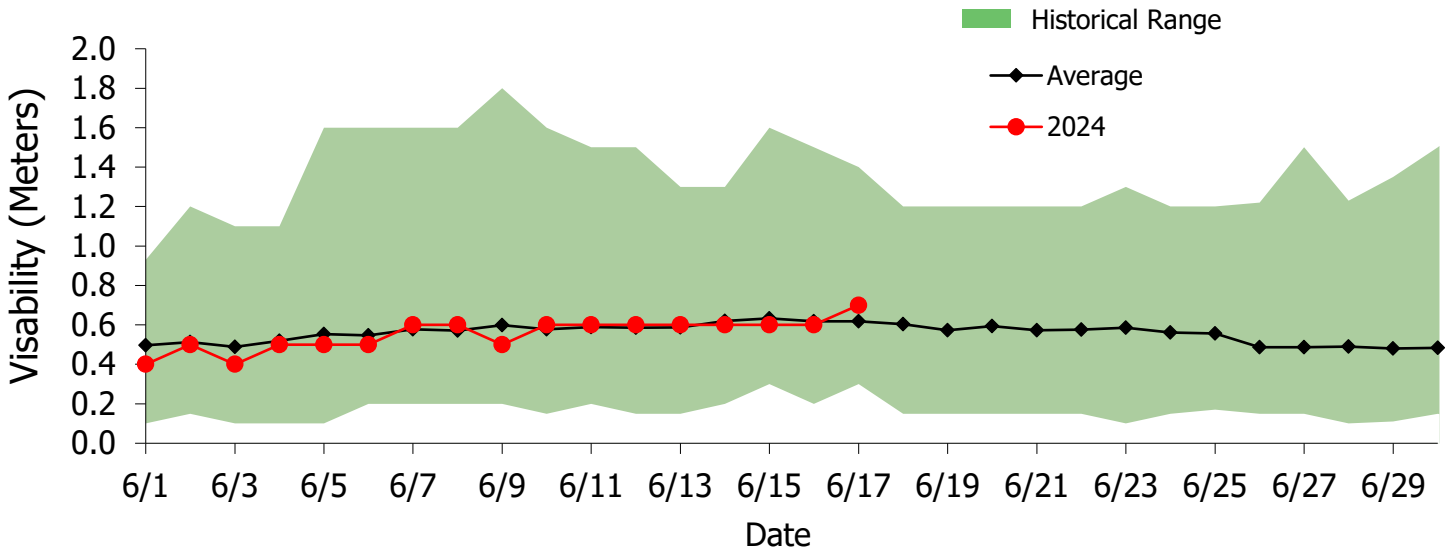
### Historical Water Temperature at BTF Site (1984 to Present)



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



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



# Kuskokwim River Salmon Assessment Update

## 6/17/2024

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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>

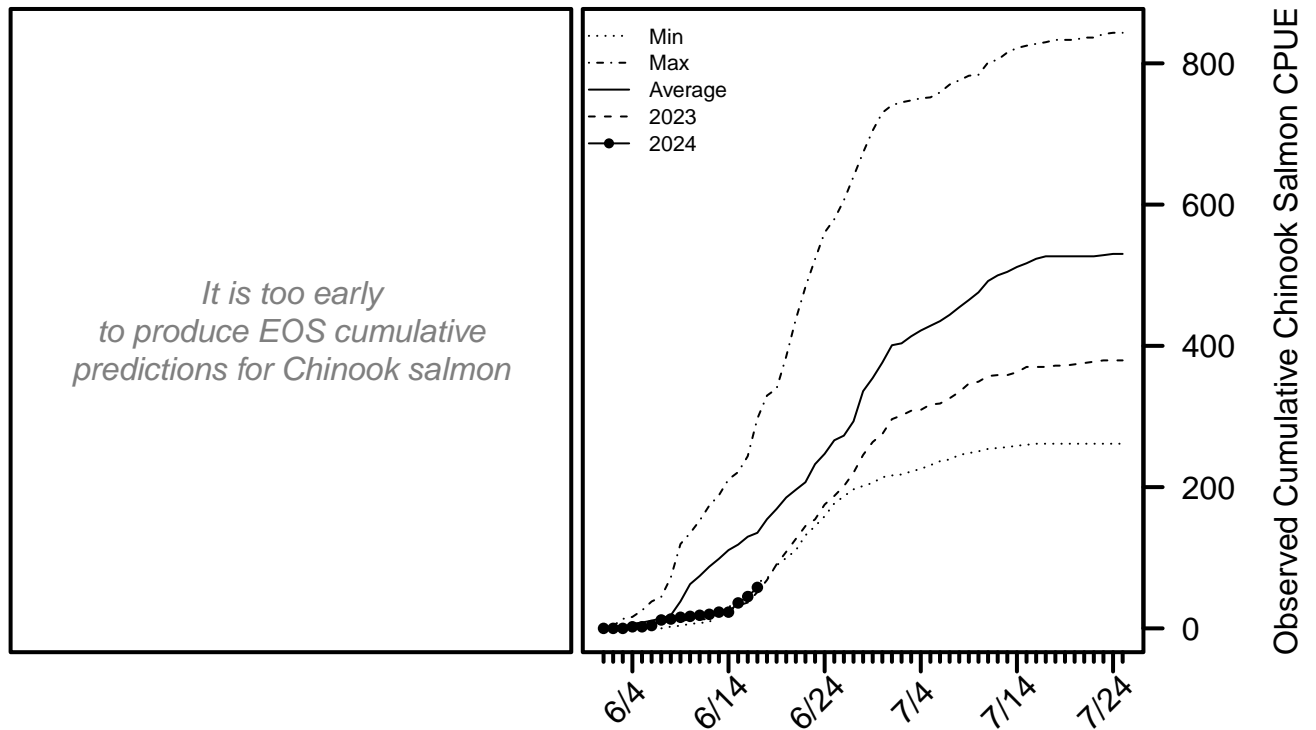
For the most up-to-date information regarding fishing opportunities please visit:

- 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 (6/17)

- The BTF daily CPUE was **13**.
- The BTF cumulative CPUE is now **58**.
- **20%** years since 2008 fell below this cumulative CPUE on this date.
- **19% - 38%** 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.



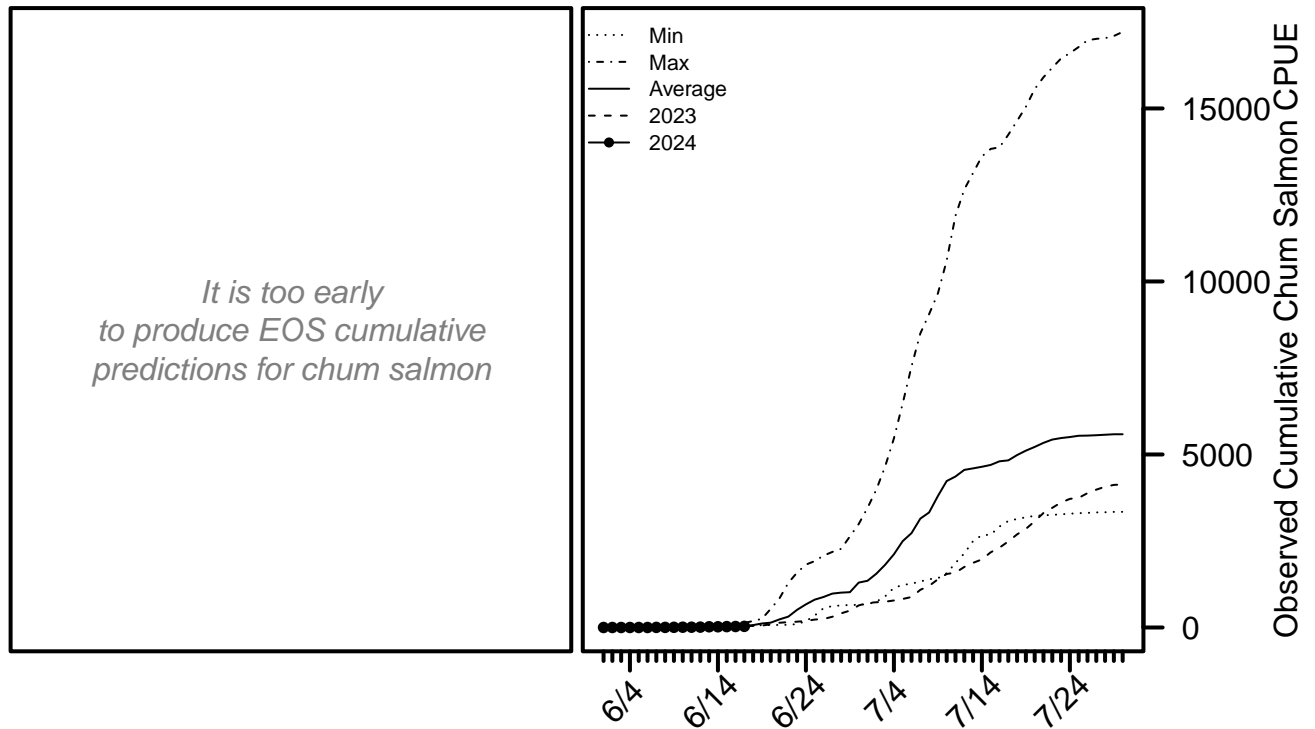
For more detailed information, see the [Chinook salmon appendix](#) at the end of this document.

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## Chum Salmon BTF Summary (6/17)

- The BTF daily CPUE was **5**.
- The BTF cumulative CPUE is now **33**.
- **27%** years since 2008 fell below this cumulative CPUE on this date.
- **1% - 5%** 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.

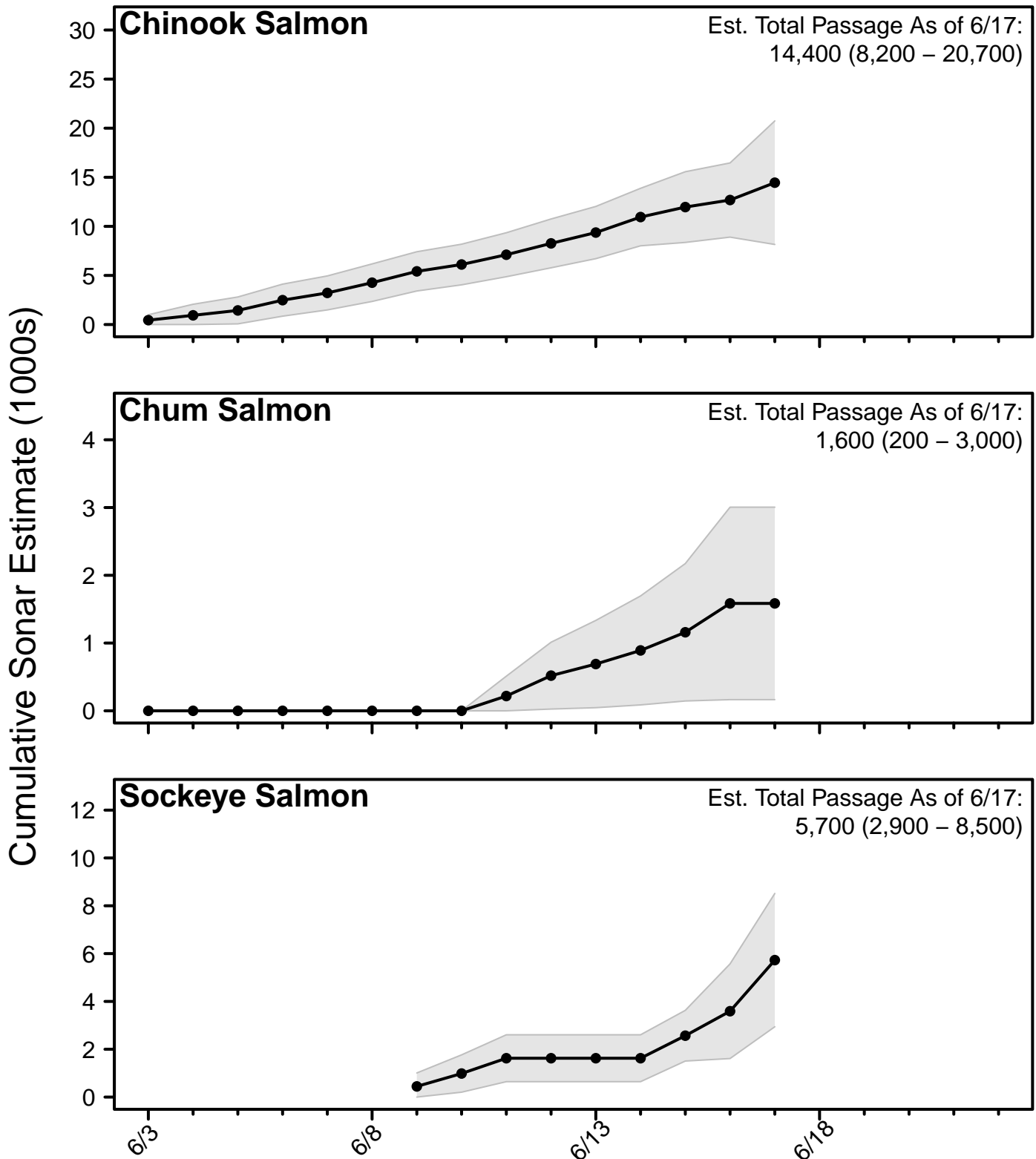


For more detailed information, see the [chum salmon appendix](#) at the end of this document.

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# 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.*

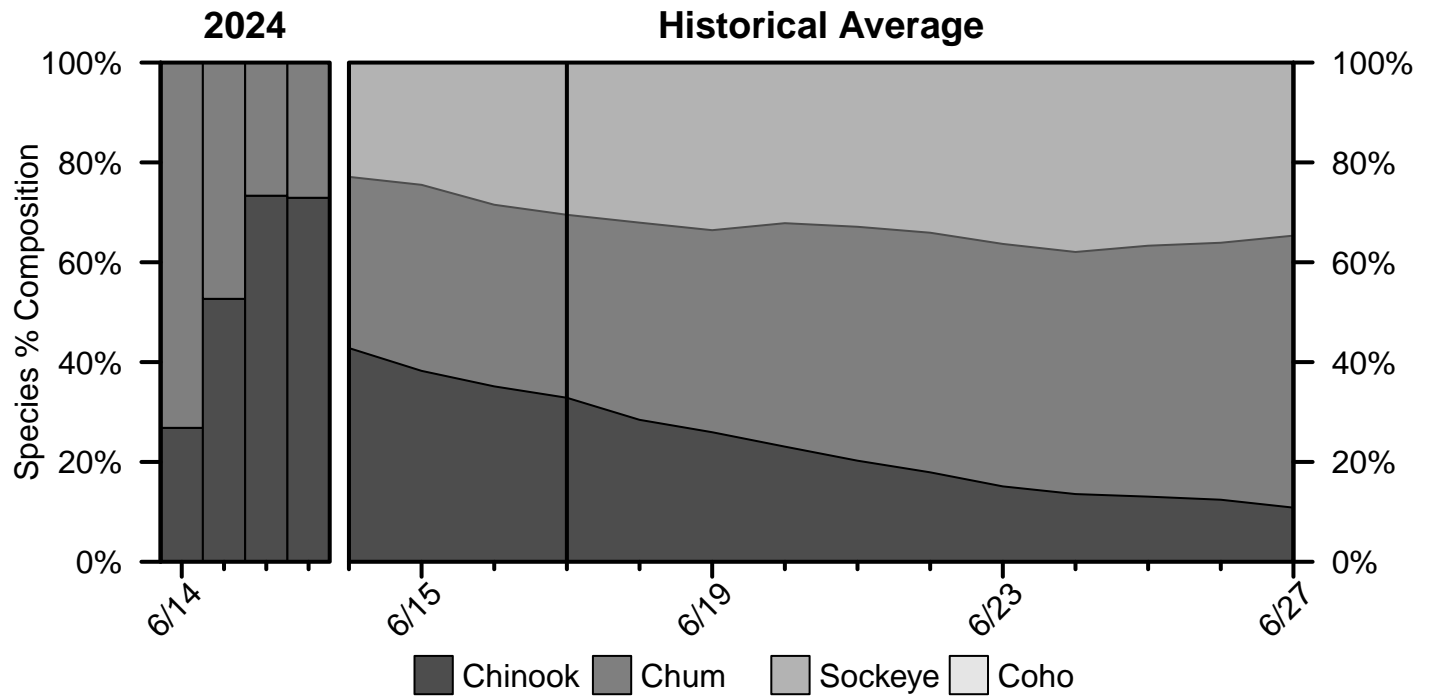


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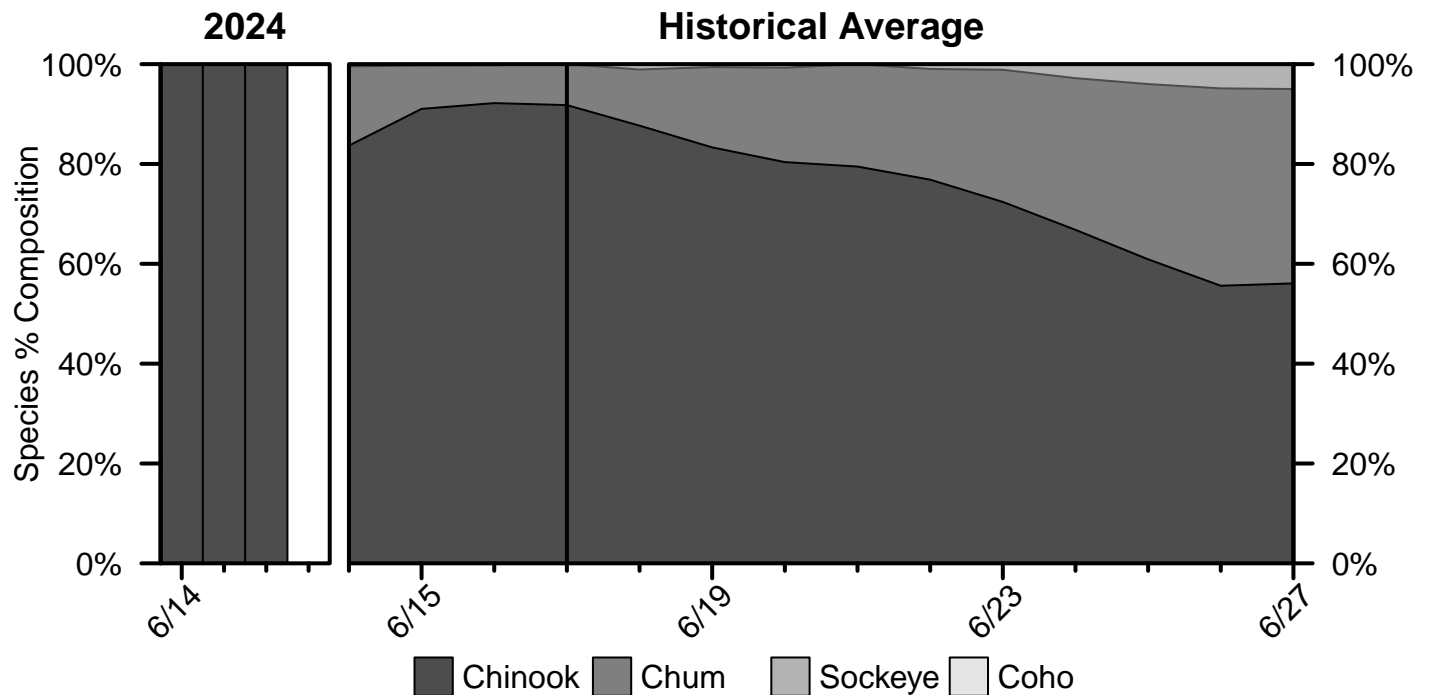


# Percent Composition by Salmon Species

**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.
<b>6/14</b>	23	24	68	111	83	100	101
<b>6/15</b>	36	32	80	119	93	109	118
<b>6/16</b>	45	37	85	130	104	120	136
<b>6/17</b>	<b>58</b>	<b>51</b>	<b>91</b>	<b>135</b>	<b>116</b>	<b>138</b>	<b>153</b>
<b>6/18</b>		68	98	155	134	157	170
<b>6/19</b>		91	121	169	135	171	190
<b>6/20</b>		108	152	185	154	197	211
<b>EOS</b>		382	504	532	487	551	550

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

Date	2024	2023	2022	2021	2020	2019	2018
<b>6/14</b>	13	7	0	42	7	403	104
<b>6/15</b>	13	7	8	79	41	569	104
<b>6/16</b>	13	7	8	99	68	595	119
<b>6/17</b>	<b>13</b>	<b>7</b>	<b>35</b>	<b>182</b>	<b>107</b>	<b>645</b>	<b>134</b>
<b>6/18</b>		7	73	233	140	795	134
<b>6/19</b>		14	118	261	167	810	134
<b>6/20</b>		14	125	302	218	836	141
<b>EOS</b>		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
<b>6/14</b>	10,947	8,624	16,884	15,189	9,295	37,316	11,383
<b>6/15</b>	11,964	11,290	20,334	17,920	11,932	39,021	14,337
<b>6/16</b>	12,682	14,383	22,624	18,939	12,826	43,298	17,789
<b>6/17</b>	<b>14,448</b>	<b>16,417</b>	<b>23,595</b>	<b>20,639</b>	<b>13,819</b>	<b>49,863</b>	<b>22,929</b>
<b>6/18</b>		17,943	25,889	22,014	16,174	52,696	26,317
<b>6/19</b>		20,515	27,809	24,599	18,865	58,284	27,988
<b>6/20</b>		22,093	30,191	27,344	20,870	63,466	30,604
<b>EOS</b>		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.
6/14	20	9	6	8	12	11	37
6/15	25	20	6	8	12	13	56
6/16	28	31	6	8	12	15	69
6/17	<b>33</b>	<b>39</b>	<b>9</b>	<b>9</b>	<b>12</b>	<b>18</b>	<b>84</b>
6/18		47	9	12	12	23	119
6/19		55	9	14	17	26	166
6/20		92	9	14	17	38	214
EOS		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
6/14	0	0	0	0	13	5	8
6/15	0	0	0	0	13	5	8
6/16	0	0	0	0	13	5	8
6/17	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>13</b>	<b>5</b>	<b>15</b>
6/18		0	0	0	13	5	32
6/19		0	0	6	26	5	95
6/20		0	0	6	32	5	137
EOS		996	952	267	2,611	1,051	10,277

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

Date	2024	2023	2022	2021	2020	2019	2018
6/14	891	364	0	320	0	379	446
6/15	1,159	364	0	320	0	379	446
6/16	1,585	498	0	320	432	379	446
6/17	<b>1,585</b>	<b>584</b>	<b>0</b>	<b>320</b>	<b>954</b>	<b>379</b>	<b>446</b>
6/18		584	0	320	954	379	446
6/19		1,123	0	320	954	379	1,806
6/20		1,237	0	320	954	659	2,089
EOS		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.
6/14	0	3	0	8	1	5	12
6/15	0	5	3	16	1	7	20
6/16	0	11	5	30	1	13	31
6/17	<b>0</b>	<b>16</b>	<b>22</b>	<b>36</b>	<b>1</b>	<b>20</b>	<b>41</b>
6/18		30	22	48	15	29	53
6/19		50	41	56	22	41	77
6/20		122	53	72	27	68	100
EOS		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
6/14	0	0	0	0	0	0	0
6/15	0	0	0	0	0	0	0
6/16	0	0	0	0	0	0	0
6/17	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
6/18		0	6	0	0	0	0
6/19		0	6	0	0	0	0
6/20		0	6	0	0	0	0
EOS		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
6/14	1,625	2,289	3,498	7,171	2,504	7,563	2,469
6/15	2,567	3,676	4,704	8,526	4,584	10,148	2,787
6/16	3,591	4,544	5,556	11,859	5,229	11,555	2,787
6/17	<b>5,728</b>	<b>5,749</b>	<b>7,851</b>	<b>20,494</b>	<b>6,089</b>	<b>13,847</b>	<b>3,193</b>
6/18		8,399	10,138	27,129	8,653	17,875	3,780
6/19		12,025	14,969	30,257	15,501	20,172	6,064
6/20		17,767	23,675	31,931	17,218	26,721	8,859
EOS		899,180	613,874	869,268	574,928	924,354	635,493

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# Kuskokwim River In-season Harvest and Effort Estimates

## 6/16/2024 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
Bethel Boat Harbor (ONC)	115	55%
Other Villages (KRITFC)	75	36%
Bethel Area Fish Camps (ONC)	20	9%
<b>Total</b>	<b>210</b>	<b>100%</b>

Of these interviews, **203** were from drift nets and **7** 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
10:04 AM	12:20 PM	2.27	449	78
3:12 PM	5:35 PM	2.38	295	71

## Effort Estimates

- An estimated **506** drift boat trips occurred.
  - An estimated **82%** of the trips counted on flight 2 were also counted on flight 1.
  - An estimated **5** trips started and ended when no flights occurred.
- An estimated **85** set net trips occurred.

## Harvest Estimates

- An estimated total of **8,918 (7,537 – 10,570)** salmon were harvested.
  - An estimated total of **6,551 (5,362 – 7,994)** Chinook salmon were harvested.
  - An estimated total of **1,439 (1,028 – 1,864)** chum salmon were harvested.
  - An estimated total of **928 (706 – 1,181)** sockeye salmon were harvested.
- Harvest by set nets accounted for an estimated **549 (245 – 864)** total salmon (**80%** Chinook salmon, **7%** chum salmon, and **13%** sockeye salmon).

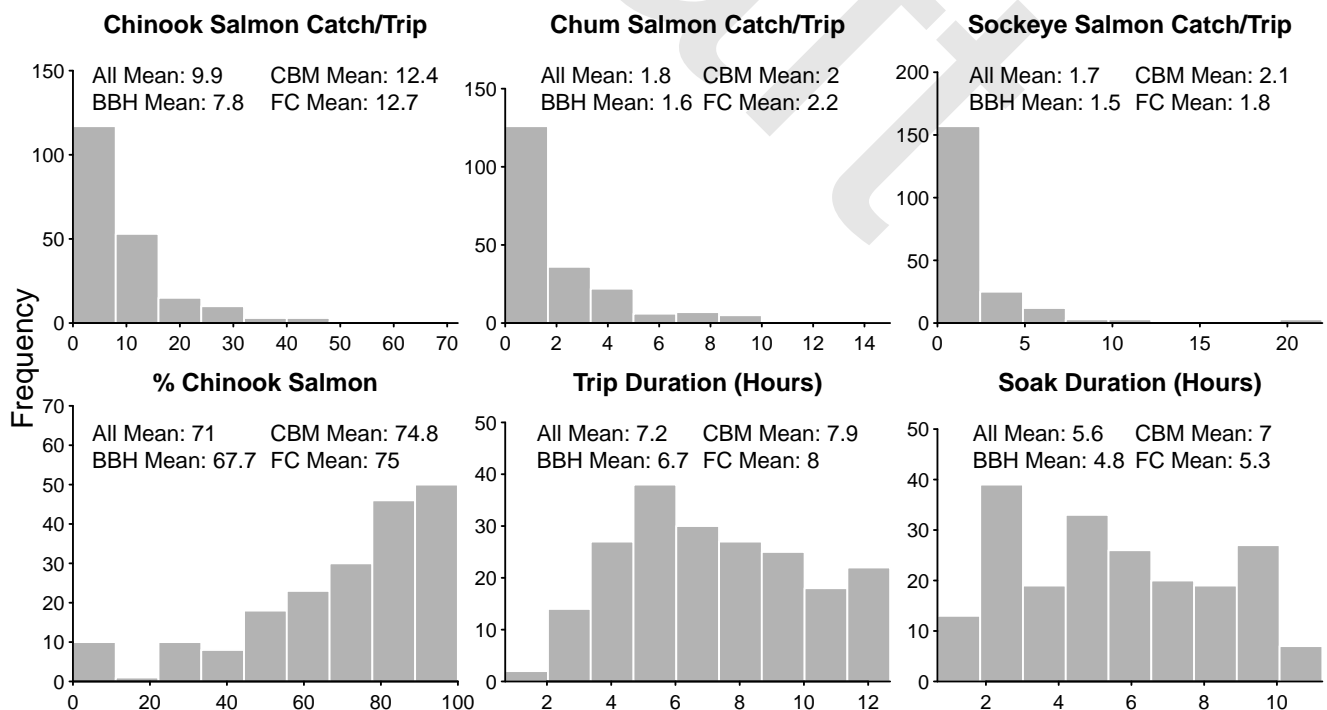
**TABLE 3.** Summaries by river stratum (area) for drift nets. Numbers in parentheses are 95% confidence intervals.

Stratum	Interviews	Effort Est.	Estimated Harvest			
			Chinook	Chum	Sockeye	Total
Tuntutuliak ↔ Johnson R.	15	138	2,189 (1,311 – 3,461)	765 (393 – 1,188)	283 (124 – 470)	<b>3,237</b> (2,205 – 4,646)
Johnson R. ↔ Napaskiak	78	87	1,181 (915 – 1,488)	218 (155 – 283)	221 (147 – 306)	<b>1,621</b> (1,289 – 1,993)
Napaskiak ↔ Akiachak	99	221	2,319 (1,740 – 3,079)	342 (231 – 470)	306 (193 – 462)	<b>2,966</b> (2,239 – 3,910)
Akiachak ↔ Akiak	1	30	321 (241 – 426)	47 (32 – 65)	43 (27 – 64)	<b>411</b> (318 – 542)
Akiak ↔ Bogus Cr.	10	30	102 (63 – 146)	26 (8 – 53)	6 (0 – 18)	<b>134</b> (88 – 193)
<b>Total</b>	<b>203</b>	<b>506</b>	<b>6,112</b> (4,968 – 7,481)	<b>1,398</b> (996 – 1,820)	<b>858</b> (631 – 1,119)	<b>8,369</b> (7,001 – 10,007)

**TABLE 4.** Estimated trips, average (95% confidence limits) total salmon catch per trip, and percent catch by species summarized for the areas above and below the confluence of the Johnson River with the Kuskokwim River. Quantities are derived from the strata- and species-specific harvest estimates, not the raw interview data.

Location	Total Trips	Total Catch/Trip	Salmon Species % Composition		
			Chinook	Chum	Sockeye
Downstream of Johnson R.	138	23 (16 – 34)	67% (54% – 77%)	24% (15% – 38%)	9% (4% – 17%)
Upstream of Johnson R.	368	14 (12 – 17)	76% (73% – 79%)	12% (10% – 14%)	11% (9% – 14%)

**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.	15	2	7	14	17	45
Johnson R. ↔ Napaskiak	78	0	3	11	15	72
Napaskiak ↔ Akiachak	99	0	2	9	14	50
Akiachak ↔ Akiak	1	9	9	9	9	9
Akiak ↔ Bogus Cr.	10	0	2	3	4	8
<b>All</b>	<b>203</b>	<b>0</b>	<b>3</b>	<b>10</b>	<b>14</b>	<b>72</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.	15	0.8	1.1	1.9	1.8	8.4
Johnson R. ↔ Napaskiak	78	0	0.8	2.7	3.2	16.1
Napaskiak ↔ Akiachak	99	0	0.5	2.2	2.8	23
Akiachak ↔ Akiak	1	0.5	0.5	0.5	0.5	0.5
Akiak ↔ Bogus Cr.	10	0	0.1	0.3	0.3	0.6
<b>All</b>	<b>203</b>	<b>0</b>	<b>0.6</b>	<b>2.2</b>	<b>2.7</b>	<b>23</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.	15	0	2	4	5	10
Johnson R. ↔ Napaskiak	78	0	0	2	3	10
Napaskiak ↔ Akiachak	99	0	0	1	2	15
Akiachak ↔ Akiak	1	8	8	8	8	8
Akiak ↔ Bogus Cr.	10	0	0	1	1	4
<b>All</b>	<b>203</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>3</b>	<b>15</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.	15	0	0.3	0.7	0.6	3.3
Johnson R. ↔ Napaskiak	78	0	0	0.5	0.7	3.8
Napaskiak ↔ Akiachak	99	0	0	0.3	0.4	3.8
Akiachak ↔ Akiak	1	0.4	0.4	0.4	0.4	0.4
Akiak ↔ Bogus Cr.	10	0	0	0.1	0.1	0.3
<b>All</b>	<b>203</b>	<b>0</b>	<b>0</b>	<b>0.4</b>	<b>0.5</b>	<b>3.8</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.	15	0	0	2	4	6
Johnson R. ↔ Napaskiak	78	0	0	2	3	22
Napaskiak ↔ Akiachak	99	0	0	1	1	22
Akiachak ↔ Akiak	1	1	1	1	1	1
Akiak ↔ Bogus Cr.	10	0	0	0	0	2
<b>All</b>	<b>203</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>2</b>	<b>22</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.	15	0	0	0.2	0.4	0.7
Johnson R. ↔ Napaskiak	78	0	0	0.5	0.6	4
Napaskiak ↔ Akiachak	99	0	0	0.3	0.3	4.4
Akiachak ↔ Akiak	1	0.1	0.1	0.1	0.1	0.1
Akiak ↔ Bogus Cr.	10	0	0	0	0	0.1
<b>All</b>	<b>203</b>	<b>0</b>	<b>0</b>	<b>0.4</b>	<b>0.5</b>	<b>4.4</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.	15	29%	58%	67%	81%	85%
Johnson R. ↔ Napaskiak	78	0%	52%	66%	86%	100%
Napaskiak ↔ Akiachak	99	0%	67%	75%	96%	100%
Akiachak ↔ Akiak	1	50%	50%	50%	50%	50%
Akiak ↔ Bogus Cr.	10	0%	68%	78%	100%	100%
<b>All</b>	<b>203</b>	<b>0%</b>	<b>57%</b>	<b>71%</b>	<b>91%</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>	15	4.4	6.8	8.5	9.8	11.5
<b>Johnson R. ↔ Napaskiak</b>	78	2.5	5.1	7.1	8.7	12.7
<b>Napaskiak ↔ Akiachak</b>	99	0.7	4.5	6.6	8.8	12.4
<b>Akiachak ↔ Akiak</b>	1	12	12	12	12	12
<b>Akiak ↔ Bogus Cr.</b>	10	12	12	12	12	12
<b>All</b>	<b>203</b>	<b>0.7</b>	<b>5</b>	<b>7.2</b>	<b>9.5</b>	<b>12.7</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>	15	2.7	3	5.2	6.5	10
<b>Johnson R. ↔ Napaskiak</b>	78	1	3.6	5.7	7.5	11
<b>Napaskiak ↔ Akiachak</b>	99	0.7	2.9	5.2	7.2	11.2
<b>Akiachak ↔ Akiak</b>	1	10	10	10	10	10
<b>Akiak ↔ Bogus Cr.</b>	10	10	10	10	10	10
<b>All</b>	<b>203</b>	<b>0.7</b>	<b>3</b>	<b>5.6</b>	<b>8</b>	<b>11.2</b>

## Appendix B: Non-salmon Harvest Information

- An estimated total of **349 (189 – 523)** nonsalmon were harvested.
  - An estimated total of **202 (105 – 315)** sheefish were harvested.
  - An estimated total of **147 (65 – 260)** all whitefishes were harvested.
- Harvest by set nets accounted for an estimated **101 (0 – 238)** total nonsalmon (**46%** sheefish and **54%** 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.	15	138	47 (0 – 142)	0 (0 – 0)	47 (0 – 142)
Johnson R. ↔ Napaskiak	78	87	25 (7 – 53)	29 (11 – 52)	54 (25 – 90)
Napaskiak ↔ Akiachak	99	221	51 (27 – 79)	50 (23 – 86)	101 (60 – 148)
Akiachak ↔ Akiak	1	30	7 (4 – 11)	7 (3 – 11)	14 (8 – 20)
Akiak ↔ Bogus Cr.	10	30	26 (9 – 44)	7 (0 – 20)	33 (12 – 56)
<b>Total</b>	<b>203</b>	<b>506</b>	<b>156</b> (83 – 259)	<b>93</b> (57 – 134)	<b>248</b> (159 – 359)

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

Area	N	Min	25%	Mean	75%	Max
Tuntutuliak ↔ Johnson R.	15	0	0	0	0	1
Johnson R. ↔ Napaskiak	78	0	0	0	0	3
Napaskiak ↔ Akiachak	99	0	0	0	0	3
Akiachak ↔ Akiak	1	0	0	0	0	0
Akiak ↔ Bogus Cr.	10	0	0	1	1	3
<b>All</b>	<b>203</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</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.	15	0	0	0	0	0
Johnson R. ↔ Napaskiak	78	0	0	0	0	3
Napaskiak ↔ Akiachak	99	0	0	0	0	3
Akiachak ↔ Akiak	1	0	0	0	0	0
Akiak ↔ Bogus Cr.	10	0	0	0	0	2
<b>All</b>	<b>203</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>