

# 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: 07/11/2018

Time: 10:00 a.m.

Place: Bethel

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Time Called to Order:

Chair: TBD

### 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:  
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/KRITFC UPDATE:

### ADF&G MANAGEMENT ACTIONS UNDER CONSIDERATION:

### PEOPLE TO BE HEARD:

### CONTINUING BUSINESS:

- Subsistence Reports: Lowest River, OTNC Inseason Subsistence 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:
  - d. NVN 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:

- Discussion of the FACA Group and future collaborative efforts.

### 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.**  
**Jennifer Peeks**  
**Aaron Tiernan**  
**Working Group Coordinators**

# Informational Packet

## Orutsararmiut Native Council (ONC) Inseason Harvest Monitoring Weekly Report

July 11, 2018

### Summary of Interview Activities

ONC conducted surveys with 39 fish camps from Thursday, July 5 through Monday, July 9, 2018. Seven fish camps reported to be done fishing until silver salmon are here. Five fish camps commented on the restrictions, and one fish camp stated they felt they should have been done putting away fish in June and another fish camp wanted more openers while the Chinook salmon were running heavy, but stated it was a good year overall. Two fish camps said there were too many openers. Five fish camps talked about the arrival of the sockeye salmon, and mentioned they were a little small and have been using sockeye salmon for strips. Two fish camps are waiting for good weather to start fishing again and did not want to fish with this bad weather because fear that their fish might spoil. One fish camp claimed that all fish tastes the same once it is dried and smoked. One fish camp stated that they got their Chinook salmon from Quinhagak. Another fish camp says they are almost done with rebuilding their fish camp and are preparing to fish. Lastly, one fish camp respondent who recently traveled upriver told us they are very happy, especially about getting 20 Chinook salmon for strips.

### Chinook Salmon ASL (Age-Sex-Length) Sampling Program

To date, we've received ASL samples from 16 individuals in the Bethel area.

### Harvest Summary

We collected data from 36 unique fishing trips at fish camps from the July 5 fishing opener. Most fishing trips (n=35) occurred from Napaskiak to Akiachak.

**Table 1.** Drift net, mesh size range and soak time reported from the July 5 fishing opener.

Total Drift Nets	Mesh Size Range	Average Soak Time (hours)
27	4"-6"	1.7 hours

## Informational Packet

**Table 2.** Set net, mesh size range and soak time reported from the July 5 fishing opener.

Total Set Nets	Mesh Size Range	Average Soak Time (hours)
9	4”-6”	7.8 hours

*Note: Two of the set nets had a soak time of 23 hours. Without those soak times included, the average set net soak time was 3.5 hours.*

**Table 3.** Average number of salmon harvested by surveyed fish camps from the July 5 fishing opener.

Average Chinook Salmon Harvest	Average Chum Salmon Harvest	Average Sockeye Salmon Harvest	Average other harvest
1.3	14.1	22	1.2

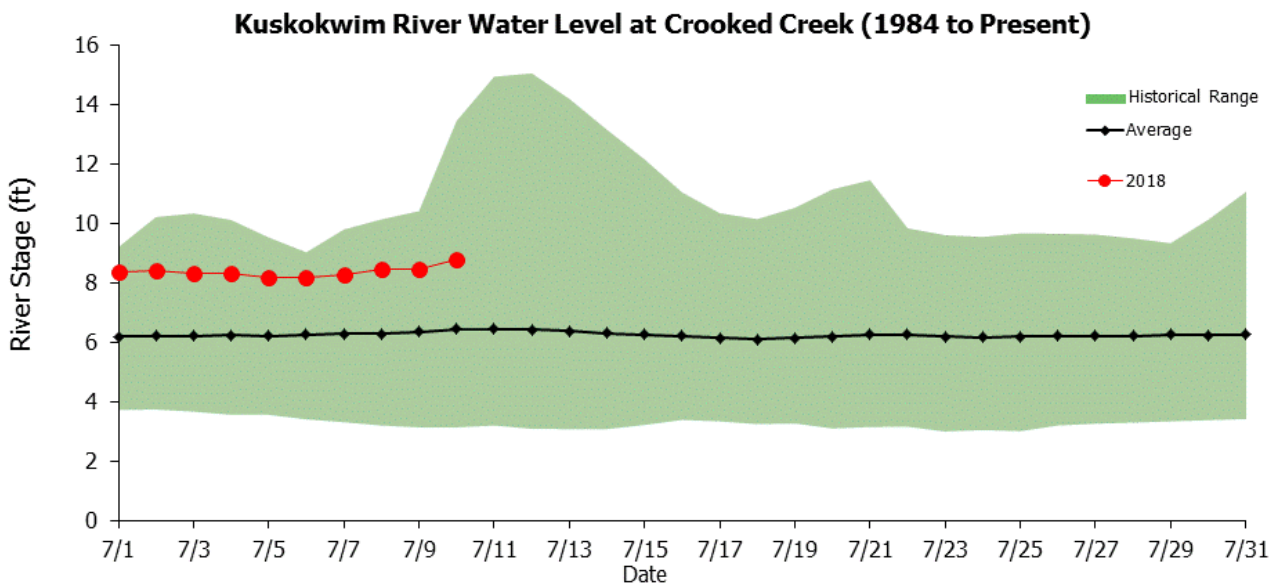
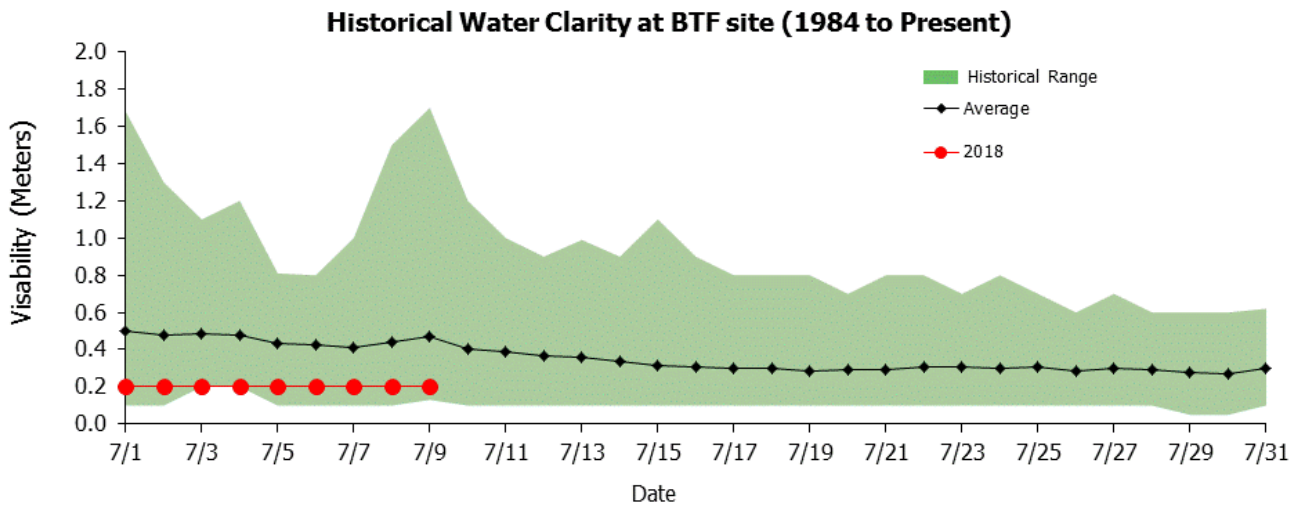
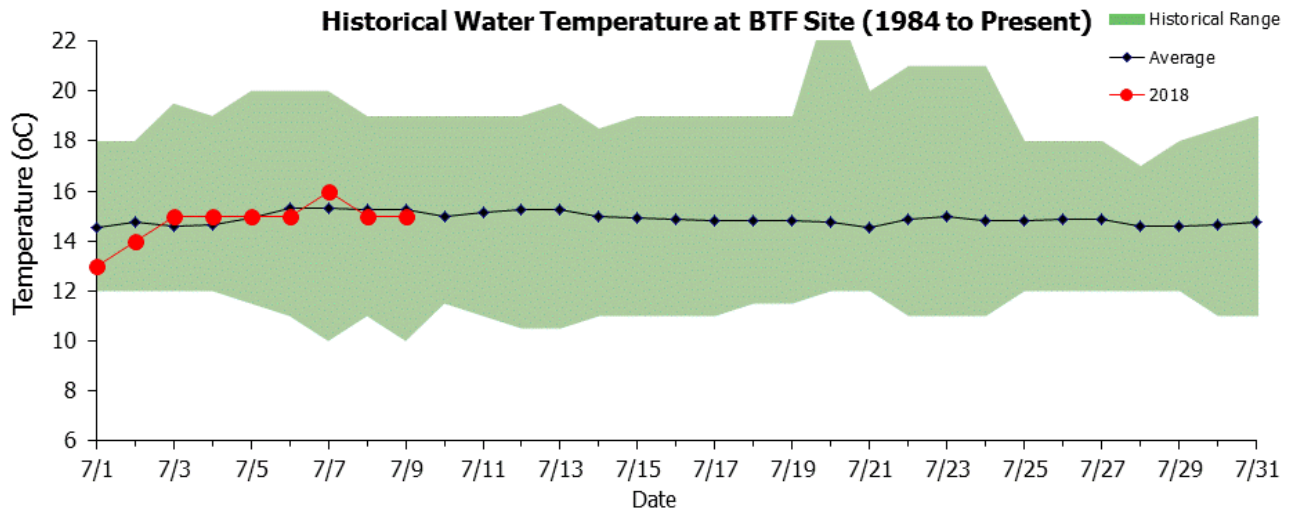
### Fishing Progress Data

This past survey period, we asked fish camps the following question: “How close are you to achieving your Chinook salmon, chum salmon and sockeye salmon harvest goals?” 32 fish camps had responses for their Chinook salmon and sockeye salmon fishing progress and 31 fish camps had responses for their chum salmon fishing progress.

**Table 4.** Fishing progress by surveyed fish camps for Chinook salmon, chum salmon and sockeye salmon following the July 5 fishing opener.

Salmon Species	Not at all	Under Half	Halfway	Over Half	Goal Met
Chinook salmon	25% (n=8)	12.5% (n=4)	15.6% (n=5)	9.4% (n=3)	37.5% (n=12)
Chum salmon	9.7% (n=3)	0% (n=0)	6.4% (n=2)	9.7% (n=3)	74.2% (n=23)
Sockeye salmon	9.4% (n=3)	9.4% (n=3)	15.6% (n=5)	21.8% (n=7)	43.8% (n=14)

# Informational Packet



## Informational Packet

# Kuskokwim River Salmon Assessment Update 7/9/2018

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This document presents the key assessment information considered by managers in-season. The production of this document is a collaborative effort between USFWS and 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 Ben Staton (USFWS; [benjamin\\_staton@fws.gov](mailto:benjamin_staton@fws.gov)) or Nick Smith (ADF&G; [nick.smith@alaska.gov](mailto:nick.smith@alaska.gov)).

### Table of Contents:

#### Bethel Test Fishery Summaries

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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 Fish 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:

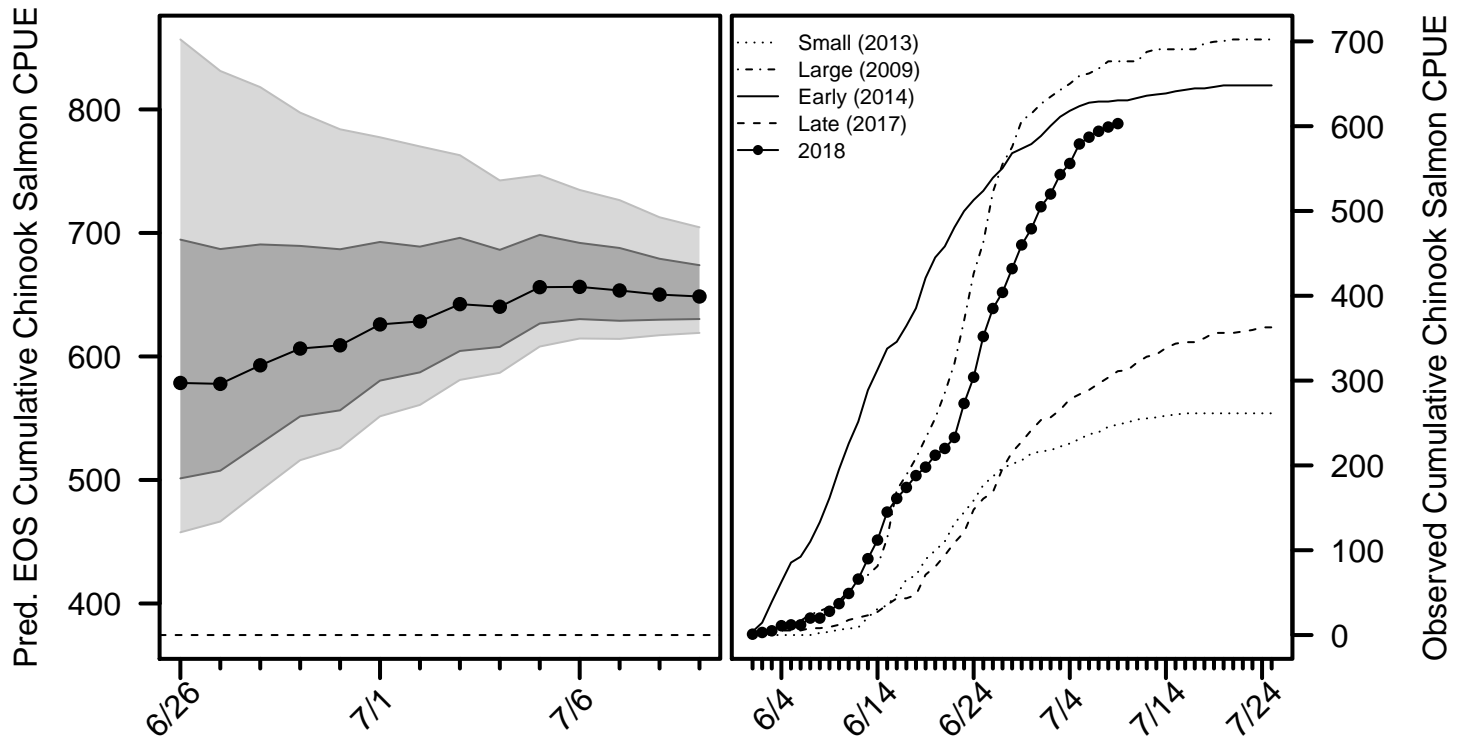
- USFWS: [https://www.fws.gov/refuge/yukon\\_delta/wildlife\\_and\\_habitat/dailyupdate.html](https://www.fws.gov/refuge/yukon_delta/wildlife_and_habitat/dailyupdate.html)
- ADF&G: <http://www.adfg.alaska.gov/index.cfm?adfg=cfnews.main>

# Informational Packet

## Chinook Salmon BTF Summary (7/9)

- The BTF daily CPUE was **4**.
- The BTF cumulative CPUE is now **603**.
- **70%** years since 2008 fell below this cumulative CPUE on this date.
- **93%** of the run is complete based on historical average run timing.
- **89% - 96%** of the run is complete based the central 50% of all historical run timing scenarios.
- **2% - 4%** of the run is expected to pass Bethel in the next 5 days.
- Over the last 3 days, Chinook salmon made up **1%** of the BTF catches, compared to **3%** on average.

**Chinook Salmon Figure 1.** *Left:* predicted cumulative EOS BTF CPUE according to various run timing scenarios: central 80% (light grey band), central 50% (dark grey band), and the historical median (circles). The dashed horizontal line shows the EOS value from 2017. *Right:* The cumulative BTF CPUE from 2018 plotted along with four previous years intended to represent a range of early/late and small/large index values.



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

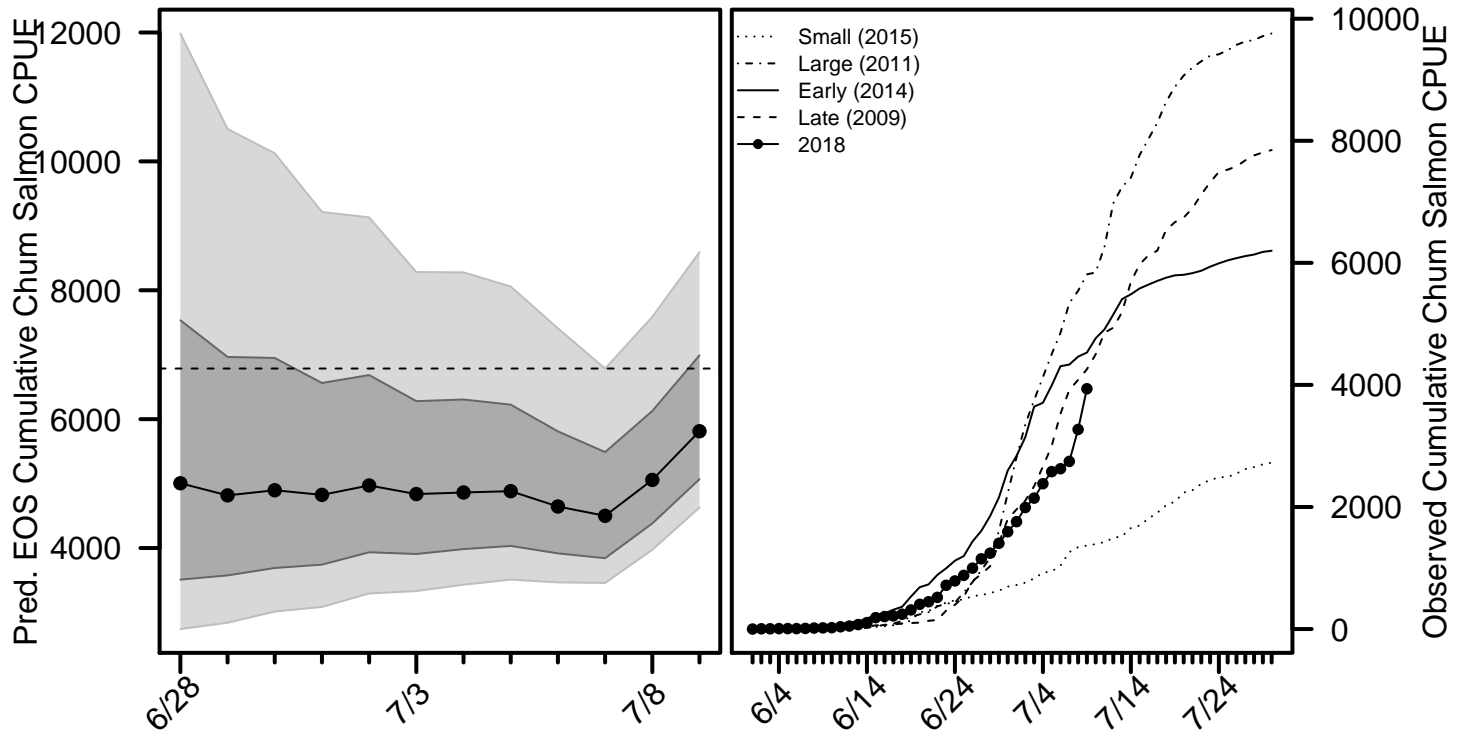
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# Informational Packet

## Chum Salmon BTF Summary (7/9)

- The BTF daily CPUE was **667**.
- The BTF cumulative CPUE is now **3,937**.
- **40%** years since 2008 fell below this cumulative CPUE on this date.
- **68%** of the run is complete based on historical average run timing.
- **56% - 78%** of the run is complete based the central 50% of all historical run timing scenarios.
- **9% - 15%** of the run is expected to pass Bethel in the next 5 days.
- Over the last 3 days, chum salmon made up **81%** of the BTF catches, compared to **74%** on average.

**Chum Salmon Figure 1.** *Left:* predicted cumulative EOS BTF CPUE according to various run timing scenarios: central 80% (light grey band), central 50% (dark grey band), and the historical median (circles). The dashed horizontal line shows the EOS value from 2017. *Right:* The cumulative BTF CPUE from 2018 plotted along with four previous years intended to represent a range of early/late and small/large index values.



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

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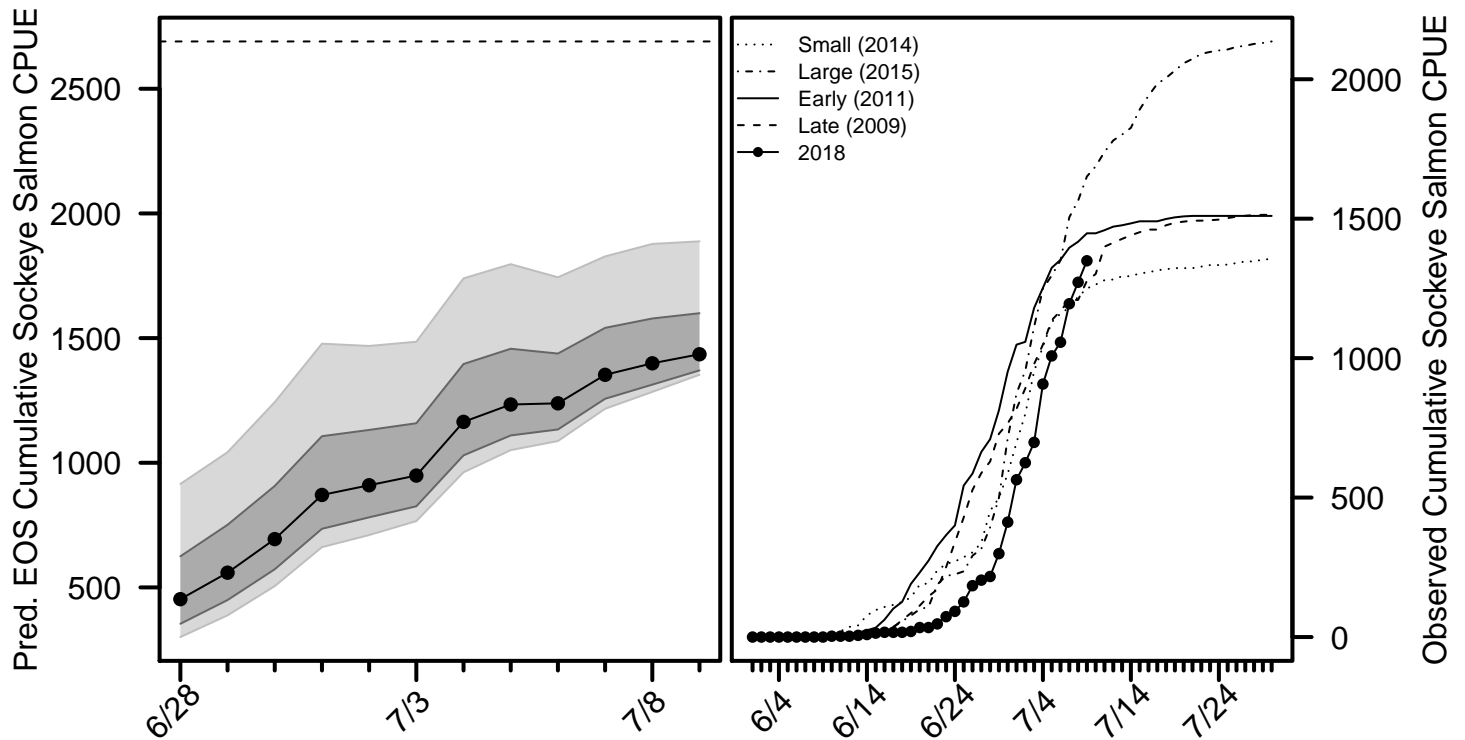


# Informational Packet

## Sockeye Salmon BTF Summary (7/9)

- The BTF daily CPUE was **77**.
- The BTF cumulative CPUE is now **1,349**.
- **60%** years since 2008 fell below this cumulative CPUE on this date.
- **94%** of the run is complete based on historical average run timing.
- **84% - 98%** of the run is complete based the central 50% of all historical run timing scenarios.
- **1% - 9%** of the run is expected to pass Bethel in the next 5 days.
- Over the last 3 days, sockeye salmon made up **18%** of the BTF catches, compared to **23%** on average.

**Sockeye Salmon Figure 1.** *Left:* predicted cumulative EOS BTF CPUE according to various run timing scenarios: central 80% (light grey band), central 50% (dark grey band), and the historical median (circles). The dashed horizontal line shows the EOS value from 2017. *Right:* The cumulative BTF CPUE from 2018 plotted along with four previous years intended to represent a range of early/late and small/large index values.



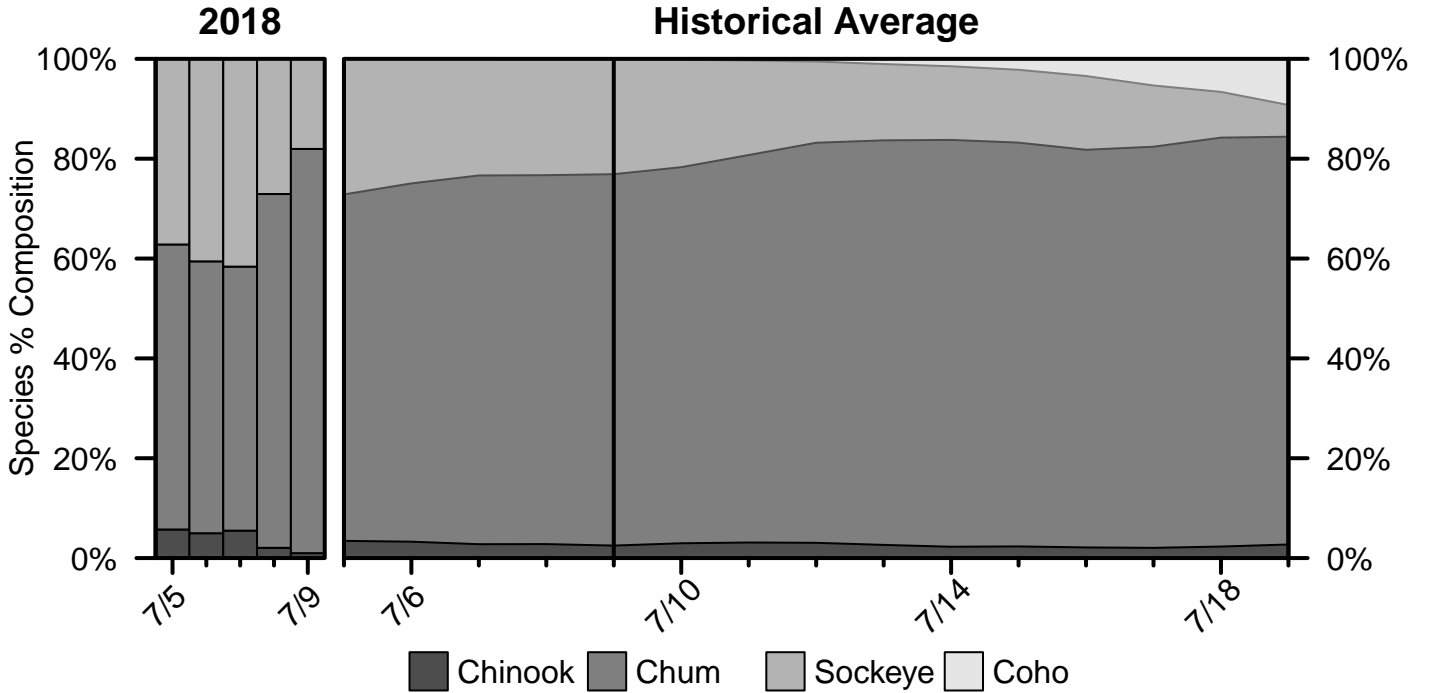
For more detailed information, see the [sockeye salmon appendix](#) at the end of this document.

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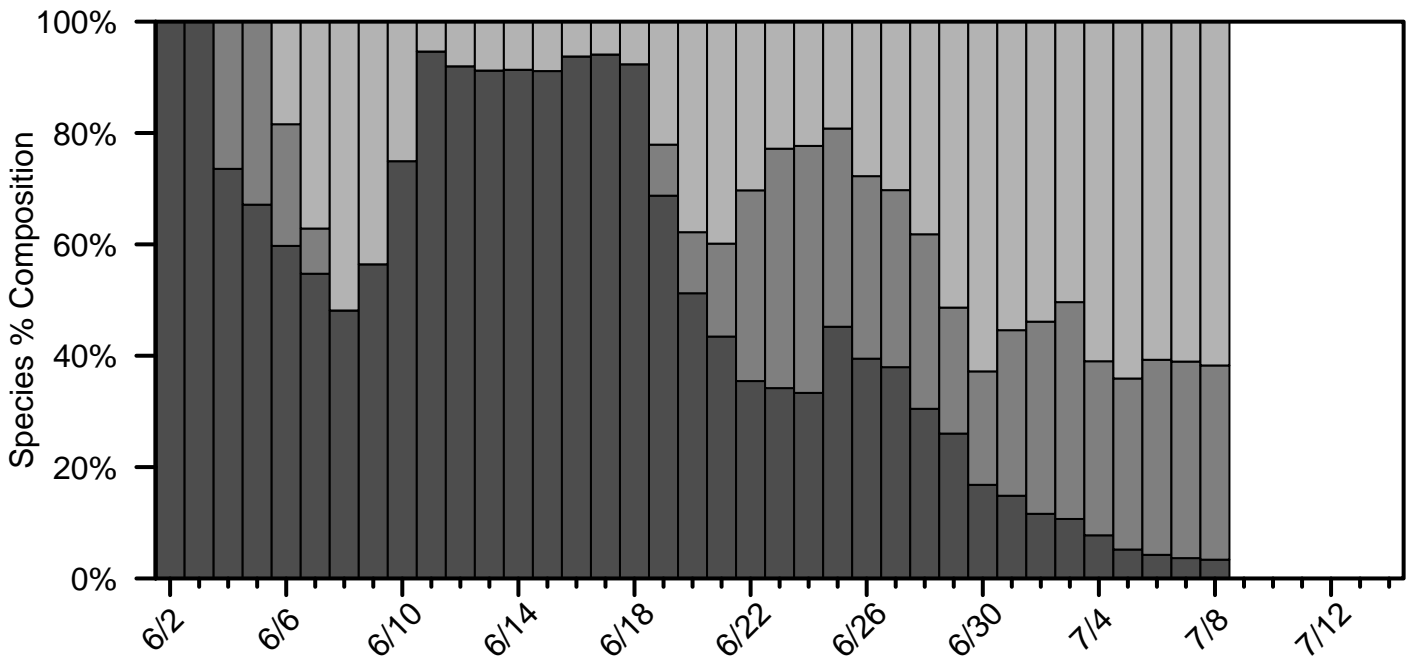
# Informational Packet

## Percent Composition by Salmon Species

**Percent Composition Figure 1.** Species percent composition in the BTF from 2018 and based on the historical average. The composition presented on each day represents the average composition over the past 3 days.



**Species Composition Figure 2.** Species percent composition from the sonar estimates from 2018 (salmon species only, excluding pink salmon). The composition presented on each day represents the average composition over the past 3 days.

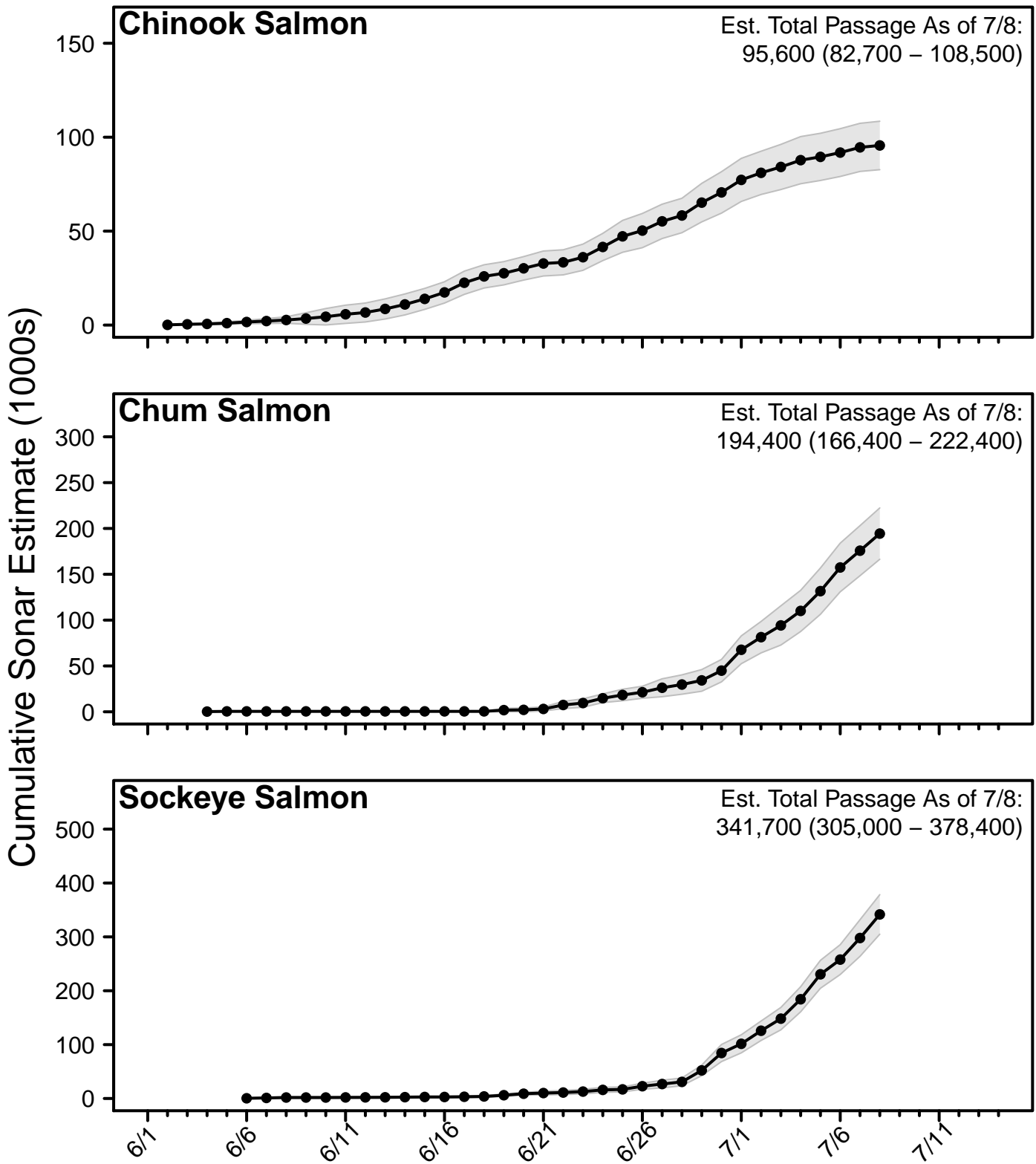


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## Sonar Passage Estimates

**Sonar Figure 1.** Cumulative estimates of salmon passage from the 2018 sonar operation through the last complete reporting day. Grey bands show the 95% confidence intervals on each complete reporting day. **Sonar operations are back in full operation. The sonar made partial counts between 6/21 and 6/29.**



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## In-Season Harvest Estimates

In-season harvest estimates are produced by combining counts of total fishing effort (usually obtained via aerial survey) and on-the-ground fisher interview information using statistically-rigorous methodology. The data collection efforts to produce these estimates is a highly collaborative effort, involving staff from ADF&G, KRITFC, OTNC, and USFWS. Although USFWS performs the data analysis and harvest estimation, all estimates undergo technical review by a panel comprised of representatives from each of these entities.

In the tables below, CV stands for coefficient of variation, which is a commonly-used measure of uncertainty in the estimate (larger CV values are more uncertain).

### Spatial Coverage:

- The 6/6 estimate was for a set net only opportunity and covers the main stem between Tuntutuliak and Akiak.
- The 6/12 and 6/16 estimates cover the main stem between Tuntutuliak and Akiak and between Kalskag and Aniak.
- The 6/24, 6/29, and 7/5 estimates cover the main stem between Tuntutuliak and Akiak.

**Harvest Table 1.** Estimated total Chinook salmon harvest within the YDNWR.

Date	Daily Harvest	Cumulative Harvest	Daily CV	Cumulative CV
<b>6/6</b>	100	100	0.21	0.21
<b>6/12</b>	5,340	5,440	0.09	0.09
<b>6/16</b>	5,710	11,150	0.09	0.06
<b>6/24</b>	6,100	17,250	0.07	0.05
<b>6/29</b>	3,160	20,410	0.11	0.04
<b>7/5</b>	1,020	21,430	0.11	0.04

**Harvest Table 2.** Estimated Chinook salmon harvested downstream of the BTF.

Date	Daily Harvest	Cumulative Harvest	Daily CV	Cumulative CV
<b>6/6</b>	30	30	0.29	0.29
<b>6/12</b>	3,210	3,240	0.1	0.1
<b>6/16</b>	3,530	6,770	0.11	0.07
<b>6/24</b>	3,700	10,470	0.08	0.06
<b>6/29</b>	1,890	12,360	0.11	0.05
<b>7/5</b>	750	13,110	0.11	0.05

**Harvest Table 3.** Estimated total chum salmon harvest within the YDNWR.

Date	Daily Harvest	Cumulative Harvest	Daily CV	Cumulative CV
<b>6/12</b>	1,830	1,830	0.16	0.16
<b>6/16</b>	2,800	4,630	0.1	0.09
<b>6/24</b>	8,890	13,520	0.07	0.05
<b>6/29</b>	18,260	31,770	0.11	0.07
<b>7/5</b>	12,500	44,270	0.09	0.05

**Harvest Table 3.** Estimated total sockeye salmon harvest within the YDNWR.

Date	Daily Harvest	Cumulative Harvest	Daily CV	Cumulative CV
<b>6/12</b>	250	250	0.21	0.21
<b>6/16</b>	450	700	0.19	0.14
<b>6/24</b>	3,660	4,360	0.08	0.07
<b>6/29</b>	7,530	11,890	0.11	0.07
<b>7/5</b>	11,280	23,170	0.09	0.06

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## Chinook Salmon Appendix

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

Date	2018	2017	2016	2015	2014	5-Yr Avg.	2008 - 2017 Avg.
<b>7/6</b>	587	289	578	504	628	447	474
<b>7/7</b>	594	296	596	513	629	455	482
<b>7/8</b>	599	304	601	518	629	459	488
<b>7/9</b>	<b>603</b>	<b>311</b>	<b>610</b>	<b>523</b>	<b>630</b>	<b>464</b>	<b>493</b>
<b>7/10</b>		312	624	527	630	469	497
<b>7/11</b>		321	634	535	633	476	502
<b>7/12</b>		328	637	537	636	479	506
<b>EOS</b>		374	687	625	650	519	538

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

Date	2018	2017	2016	2015
<b>7/6</b>	629	5,604	2,479	2,585
<b>7/7</b>	661	5,766	2,522	2,681
<b>7/8</b>	725	5,908	2,556	2,705
<b>7/9</b>	<b>760</b>	<b>6,143</b>	<b>2,575</b>	<b>2,761</b>
<b>7/10</b>		6,308	2,575	2,816
<b>7/11</b>		6,387	2,591	2,841
<b>7/12</b>		6,437	2,649	2,885
<b>EOS</b>		6,508	2,729	2,916

**Chinook Salmon Table A3.** Percent of run complete according to various historical run timing scenarios from the BTF.

Timing	Midpoint	7/9 Cumulative %
<b>Earliest</b>	6/14	99%
<b>Early 10%</b>	6/17	97%
<b>Early 25%</b>	6/21	96%
<b>Median</b>	6/22	93%
<b>Late 25%</b>	6/24	89%
<b>Late 10%</b>	6/27	85%
<b>Latest</b>	7/3	81%

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## Chum Salmon Appendix

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

Date	2018	2017	2016	2015	2014	5-Yr Avg.	2008 - 2017 Avg.
<b>7/6</b>	2,627	3,346	1,290	1,041	4,307	2,542	3,139
<b>7/7</b>	2,747	3,691	1,410	1,261	4,333	2,768	3,407
<b>7/8</b>	3,270	4,088	1,618	1,342	4,463	2,967	3,620
<b>7/9</b>	<b>3,937</b>	<b>4,597</b>	<b>1,733</b>	<b>1,368</b>	<b>4,530</b>	<b>3,206</b>	<b>3,861</b>
<b>7/10</b>		4,942	1,892	1,392	4,765	3,445	4,078
<b>7/11</b>		5,187	2,111	1,425	4,910	3,599	4,299
<b>7/12</b>		5,443	2,155	1,492	5,153	3,759	4,493
<b>EOS</b>		6,785	3,894	2,943	6,343	5,135	6,525

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

Date	2018	2017	2016	2015
<b>7/6</b>	4,603	6,499	2,937	2,048
<b>7/7</b>	5,066	7,323	3,333	2,316
<b>7/8</b>	5,493	7,832	3,392	2,388
<b>7/9</b>	<b>6,098</b>	<b>8,256</b>	<b>3,603</b>	<b>2,706</b>
<b>7/10</b>		9,240	3,844	3,400
<b>7/11</b>		10,130	3,971	4,333
<b>7/12</b>		10,746	4,229	5,241
<b>EOS</b>		11,588	5,304	5,669

**Chum Salmon Table A3.** Percent of run complete according to various historical run timing scenarios from the BTF.

Timing	Midpoint	7/9 Cumulative %
<b>Earliest</b>	6/23	92%
<b>Early 10%</b>	7/1	85%
<b>Early 25%</b>	7/2	78%
<b>Median</b>	7/5	68%
<b>Late 25%</b>	7/7	57%
<b>Late 10%</b>	7/11	46%
<b>Latest</b>	7/14	35%

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## Sockeye Salmon Appendix

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

Date	2018	2017	2016	2015	2014	5-Yr Avg.	2008 - 2017 Avg.
<b>7/6</b>	1,057	1,308	932	1,351	1,160	1,148	1,125
<b>7/7</b>	1,195	1,363	1,142	1,505	1,181	1,240	1,199
<b>7/8</b>	1,272	1,593	1,206	1,565	1,220	1,321	1,254
<b>7/9</b>	<b>1,349</b>	<b>1,676</b>	<b>1,242</b>	<b>1,651</b>	<b>1,250</b>	<b>1,376</b>	<b>1,302</b>
<b>7/10</b>		1,712	1,417	1,688	1,264	1,430	1,349
<b>7/11</b>		1,784	1,470	1,739	1,280	1,472	1,385
<b>7/12</b>		1,966	1,548	1,781	1,282	1,537	1,427
<b>EOS</b>		2,690	2,463	2,157	1,367	1,965	1,711

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

Date	2018	2017	2016	2015
<b>7/6</b>	60	268	171	584
<b>7/7</b>	60	268	248	669
<b>7/8</b>	68	286	248	742
<b>7/9</b>	<b>68</b>	<b>286</b>	<b>265</b>	<b>948</b>
<b>7/10</b>		304	326	1,020
<b>7/11</b>		366	326	1,107
<b>7/12</b>		374	358	1,221
<b>EOS</b>		393	405	1,245

**Sockeye Salmon Table A3.** Percent of run complete according to various historical run timing scenarios from the BTF.

Timing	Midpoint	7/9 Cumulative %
<b>Earliest</b>	6/22	100%
<b>Early 10%</b>	6/24	100%
<b>Early 25%</b>	6/25	98%
<b>Median</b>	6/29	94%
<b>Late 25%</b>	7/1	84%
<b>Late 10%</b>	7/5	72%
<b>Latest</b>	7/10	54%

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## **Supplemental Kuskokwim River Salmon Escapement Data**

Salmon escapement projects are located upriver from where the majority of salmon harvest occurs. Therefore, escapement data provide limited information about the status of salmon runs in season. Data from escapement projects are primarily used post season to assess escapement goals and trends.

Daily escapement information can be viewed online at the ADF&G Kuskokwim Management Area Fish Counts webpage. This can be accessed through the following link:

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



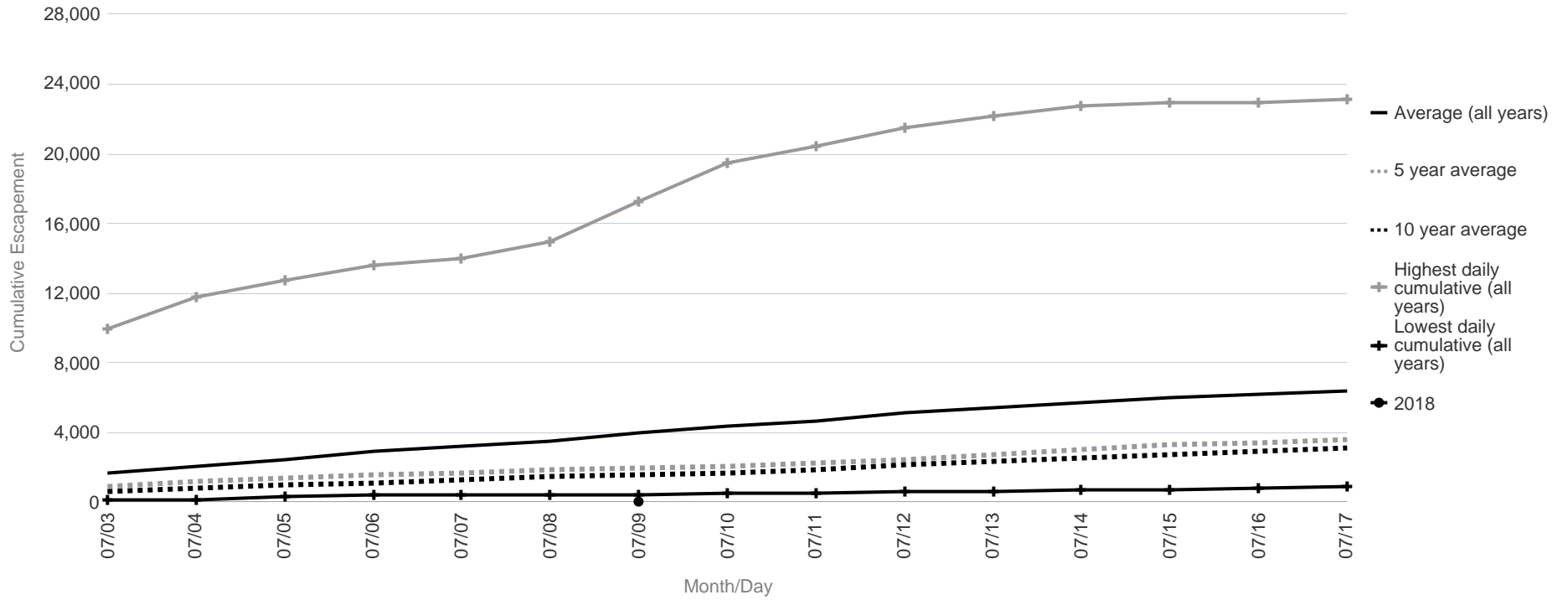
## Kwethluk River Salmon Monitoring Project Cumulative Daily Passage of Chinook Salmon

Escapement Goal Range: 4,100 to 7,500

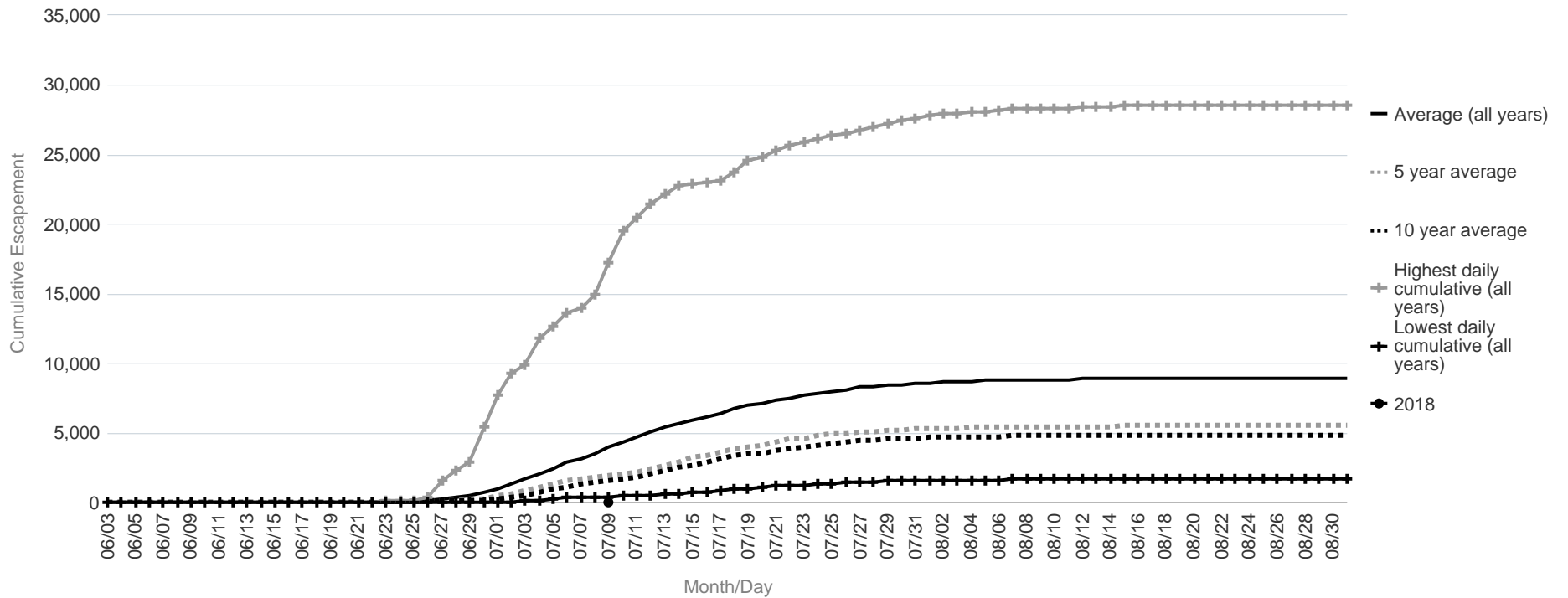
Date	Lowest daily cumulative (all years)	Average (all years)	5 year average	10 year average	Highest daily cumulative (all years)	2018
07/03	81	1,661	873	560	9,951	
07/04	135	2,044	1,131	752	11,804	
07/05	292	2,441	1,378	967	12,700	
07/06	360	2,871	1,534	1,098	13,621	
07/07	361	3,172	1,681	1,292	13,960	
07/08	372	3,498	1,829	1,436	14,968	
07/09	405	3,978	1,937	1,563	17,294	16
07/10	522	4,374	2,043	1,683	19,489	
07/11	526	4,679	2,219	1,876	20,436	
07/12	557	5,080	2,437	2,104	21,479	
07/13	638	5,448	2,701	2,302	22,122	
07/14	668	5,727	2,965	2,509	22,774	
07/15	699	5,947	3,252	2,719	22,935	
07/16	763	6,136	3,428	2,895	22,978	
07/17	897	6,378	3,612	3,125	23,134	

	Lowest Count	Average Count	5 Year Average	10 Year Average	Highest Count
Season Total	1,669	8,963	5,584	4,888	28,605

### Focused Two-Week Data View



### Season Total Overview

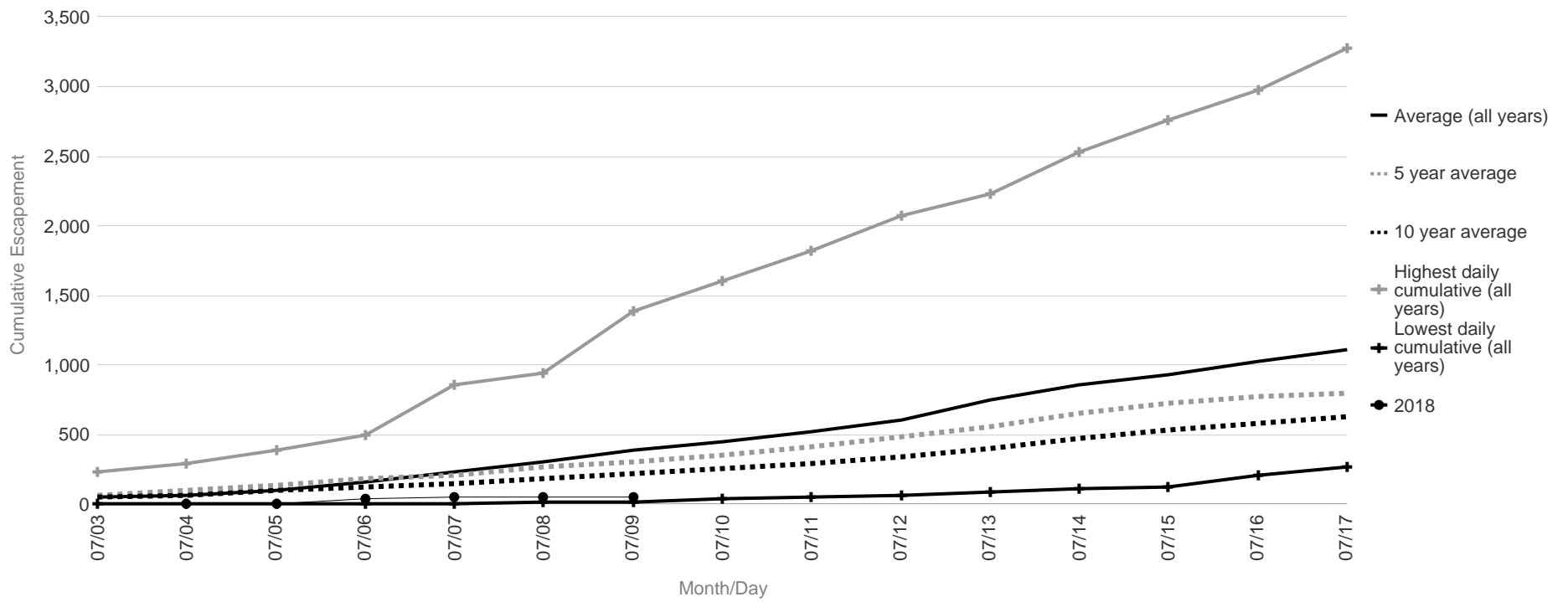


### Salmon River (Aniak) Salmon Monitoring Project Cumulative Daily Passage of Chinook Salmon

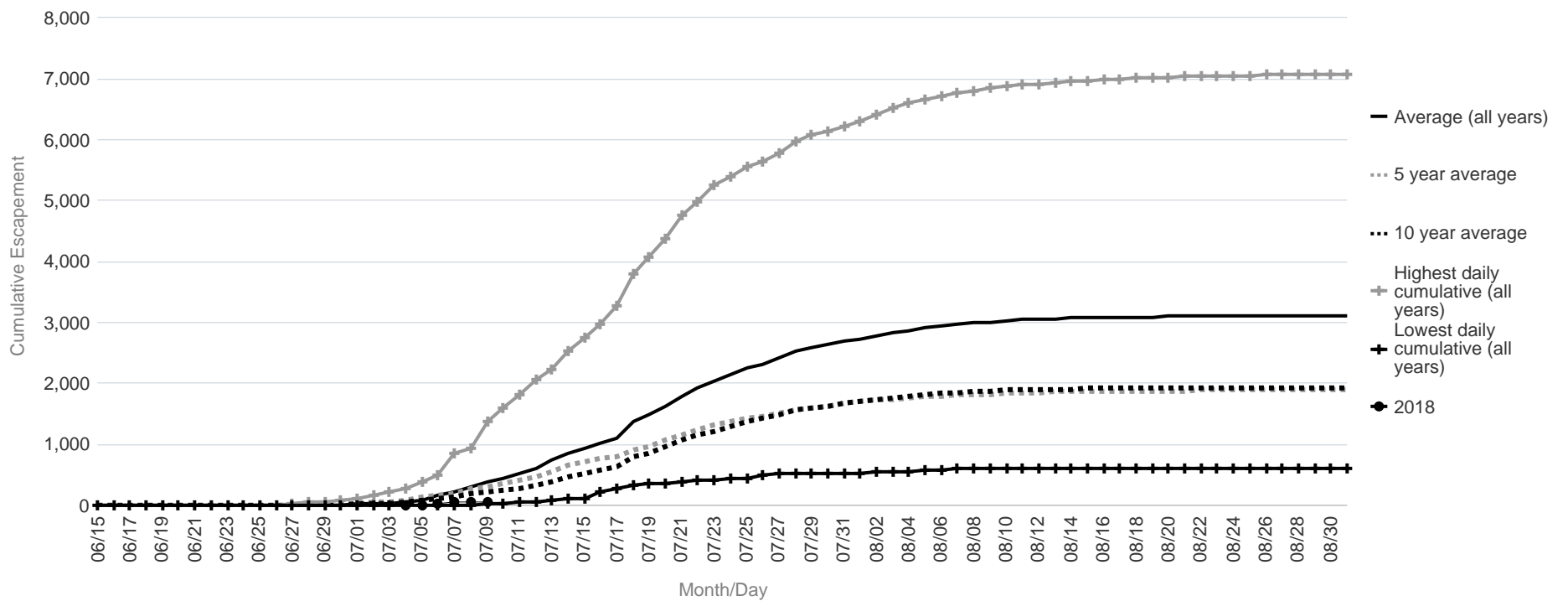
Date	Lowest daily cumulative (all years)	Average (all years)	5 year average	10 year average	Highest daily cumulative (all years)	2018
07/03	0	46	68	45	236	
07/04	0	64	96	65	288	4
07/05	1	95	137	94	384	4
07/06	3	157	180	124	493	40
07/07	6	232	205	141	856	52
07/08	11	304	267	188	947	53
07/09	20	384	304	216	1,392	53
07/10	33	444	352	250	1,599	
07/11	51	515	408	290	1,817	
07/12	63	607	479	342	2,070	
07/13	85	745	551	400	2,227	
07/14	111	854	656	475	2,533	
07/15	128	930	728	529	2,764	
07/16	211	1,025	767	585	2,980	
07/17	269	1,108	801	625	3,279	

	Lowest Count	Average Count	5 Year Average	10 Year Average	Highest Count
Season Total	625	3,119	1,897	1,936	7,075

#### Focused Two-Week Data View



#### Season Total Overview



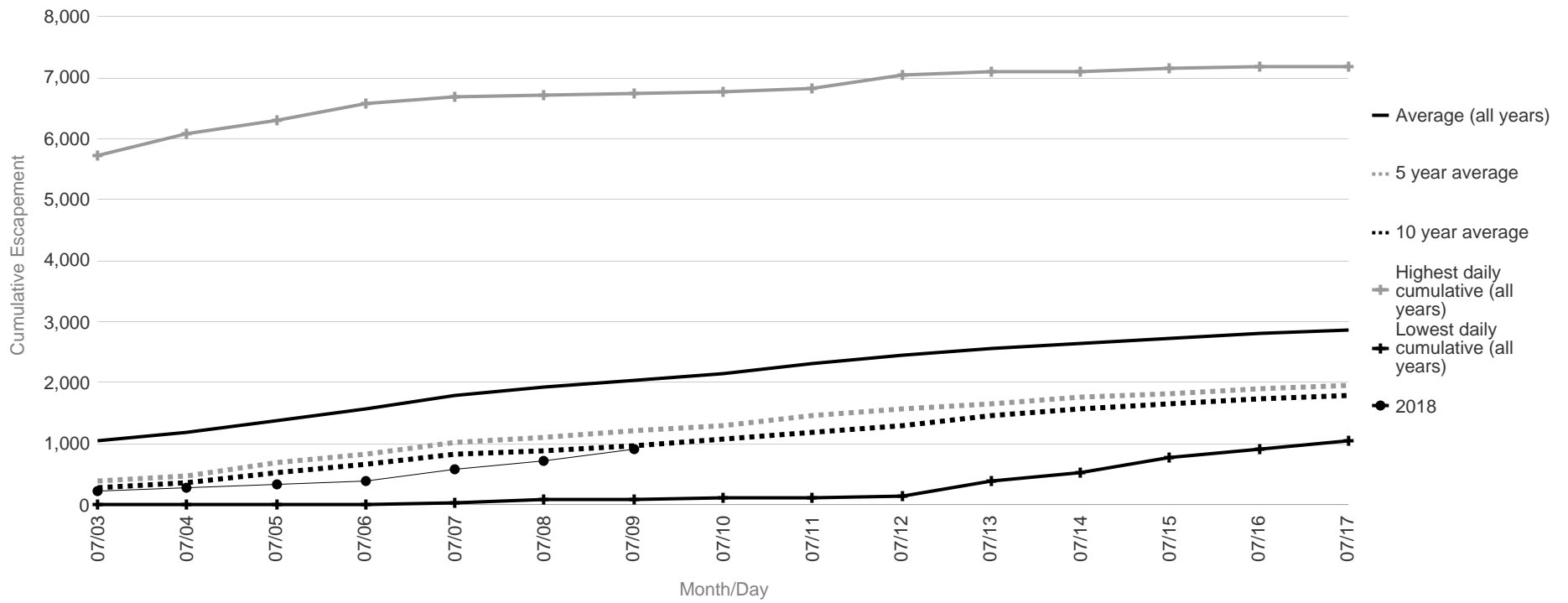
## George River Salmon Monitoring Project Cumulative Daily Passage of Chinook Salmon

Escapement Goal Range: 1,800 to 3,300

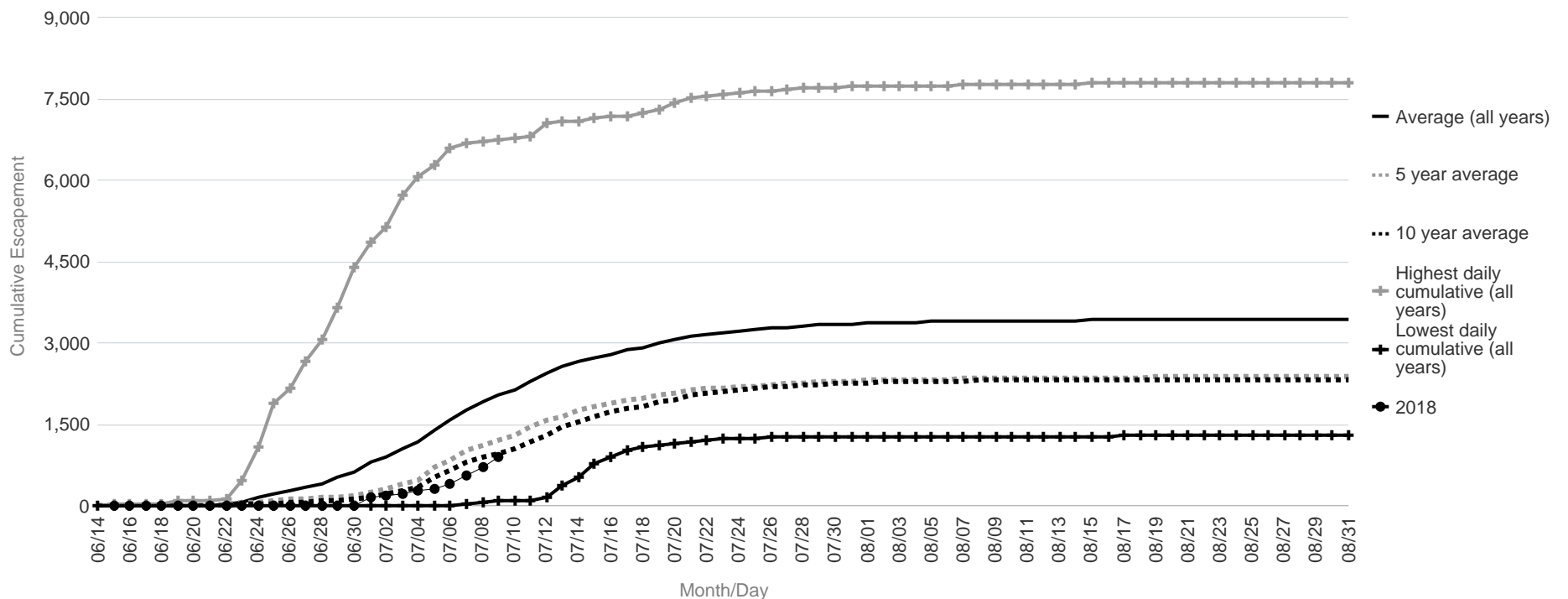
Date	Lowest daily cumulative (all years)	Average (all years)	5 year average	10 year average	Highest daily cumulative (all years)	2018
07/03	11	1,049	393	278	5,728	213
07/04	12	1,197	484	356	6,075	287
07/05	14	1,384	704	540	6,296	327
07/06	18	1,585	829	654	6,590	401
07/07	31	1,782	1,020	821	6,683	576
07/08	81	1,922	1,113	897	6,717	729
07/09	89	2,044	1,207	979	6,754	907
07/10	102	2,138	1,309	1,068	6,783	
07/11	112	2,308	1,463	1,193	6,816	
07/12	153	2,463	1,573	1,312	7,061	
07/13	384	2,567	1,649	1,458	7,092	
07/14	541	2,653	1,755	1,568	7,103	
07/15	788	2,735	1,834	1,655	7,168	
07/16	910	2,806	1,906	1,725	7,174	
07/17	1,042	2,873	1,950	1,797	7,196	

	Lowest Count	Average Count	5 Year Average	10 Year Average	Highest Count
Season Total	1,292	3,439	2,383	2,339	7,810

### Focused Two-Week Data View



### Season Total Overview



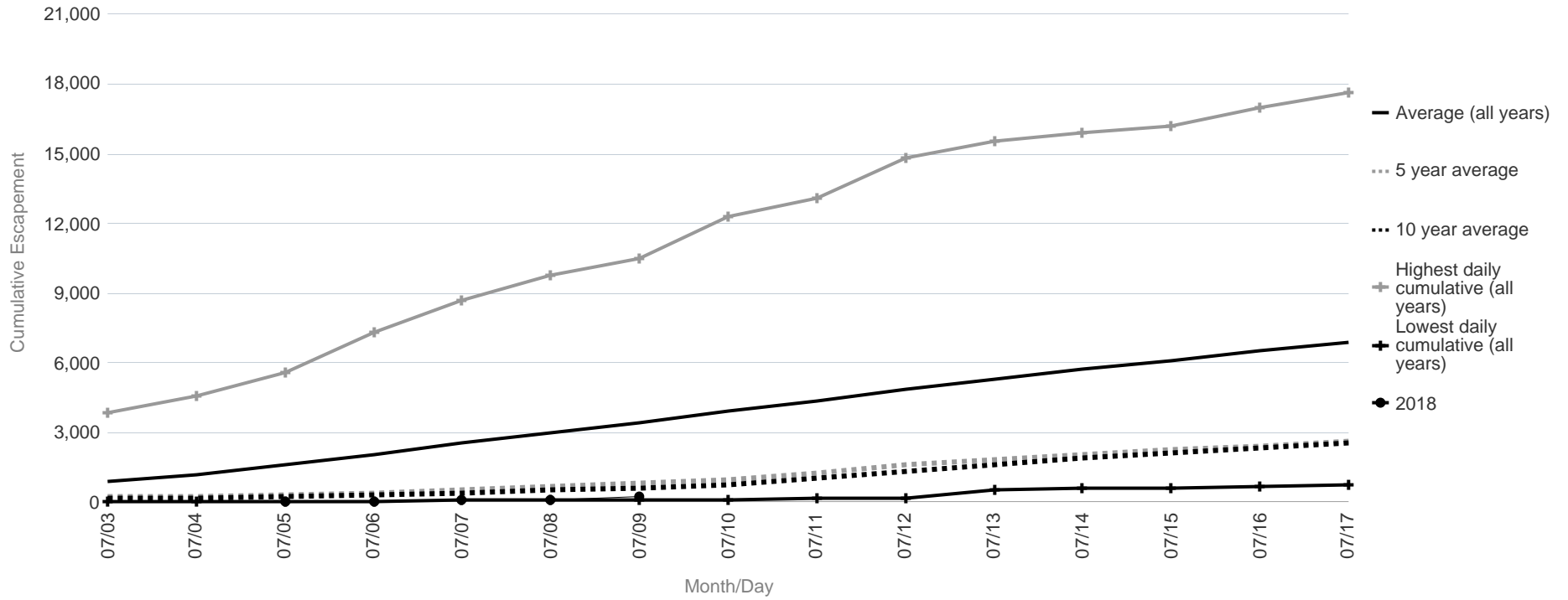
## Kogrukluk River Salmon Monitoring Project Cumulative Daily Passage of Chinook Salmon

Escapement Goal Range: 4,800 to 8,800

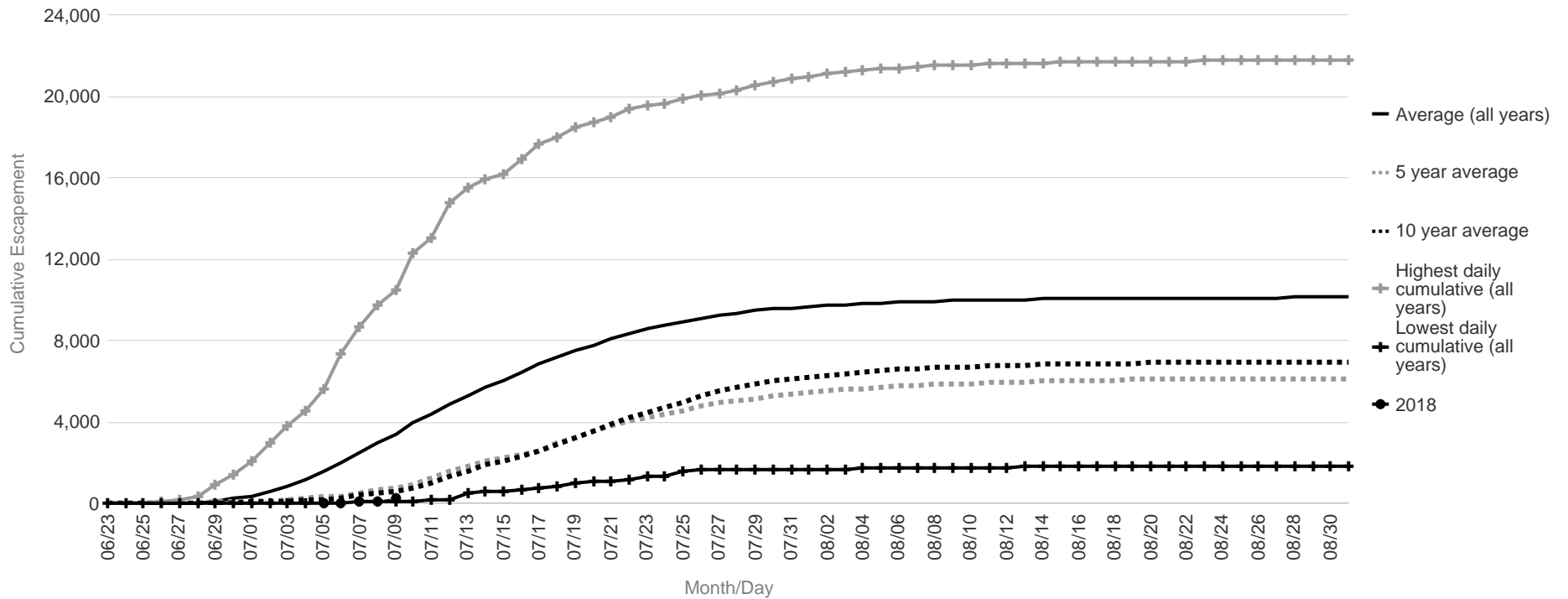
Date	Lowest daily cumulative (all years)	Average (all years)	5 year average	10 year average	Highest daily cumulative (all years)	2018
07/03	0	879	205	133	3,848	
07/04	1	1,188	248	164	4,588	
07/05	4	1,586	303	219	5,589	17
07/06	21	2,031	363	268	7,343	48
07/07	56	2,505	547	396	8,649	78
07/08	83	2,958	671	517	9,782	116
07/09	104	3,426	771	611	10,461	229
07/10	116	3,937	957	765	12,287	
07/11	167	4,373	1,263	1,033	13,084	
07/12	191	4,875	1,585	1,311	14,798	
07/13	484	5,287	1,804	1,603	15,562	
07/14	574	5,716	2,049	1,874	15,937	
07/15	618	6,079	2,277	2,105	16,183	
07/16	678	6,481	2,427	2,340	16,957	
07/17	739	6,843	2,597	2,574	17,646	

	Lowest Count	Average Count	5 Year Average	10 Year Average	Highest Count
Season Total	1,819	10,135	6,138	6,946	21,819

### Focused Two-Week Data View



### Season Total Overview

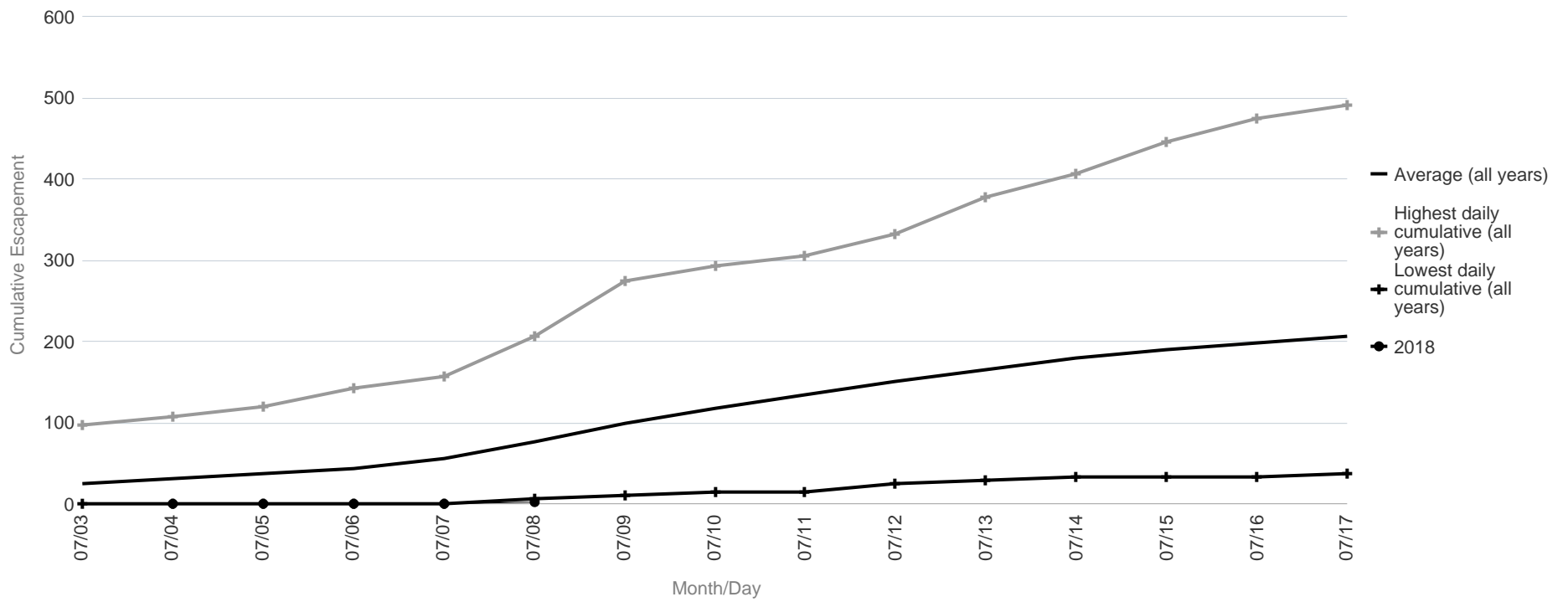


### Takotna River Salmon Monitoring Project Cumulative Daily Passage of Chinook Salmon

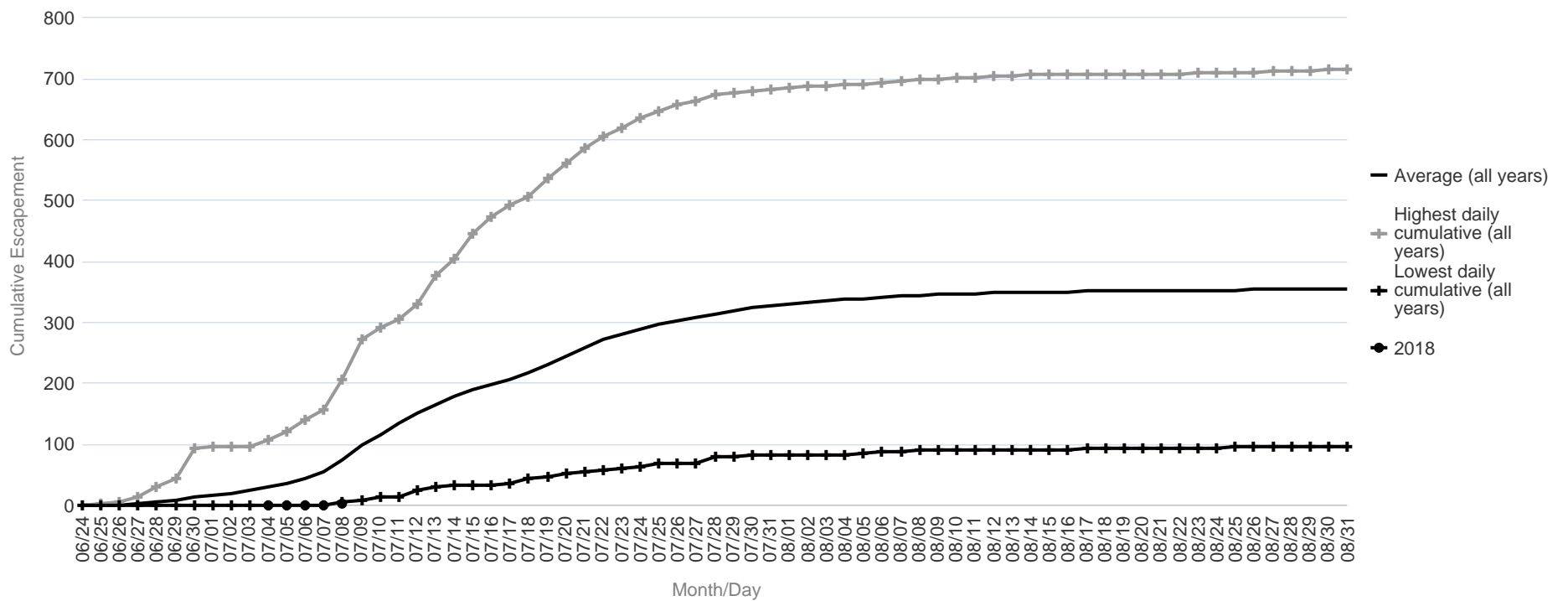
Date	Lowest daily cumulative (all years)	Average (all years)	Highest daily cumulative (all years)	2018
07/03	0	25	98	
07/04	0	31	108	0
07/05	0	37	121	0
07/06	0	45	142	0
07/07	1	56	157	1
07/08	6	76	207	3
07/09	10	100	274	
07/10	14	117	293	
07/11	15	135	305	
07/12	26	152	332	
07/13	30	166	377	
07/14	34	179	406	
07/15	34	190	447	
07/16	34	199	475	
07/17	37	207	492	

	Lowest Count	Average Count	Highest Count
Season Total	97	357	718

#### Focused Two-Week Data View



#### Season Total Overview

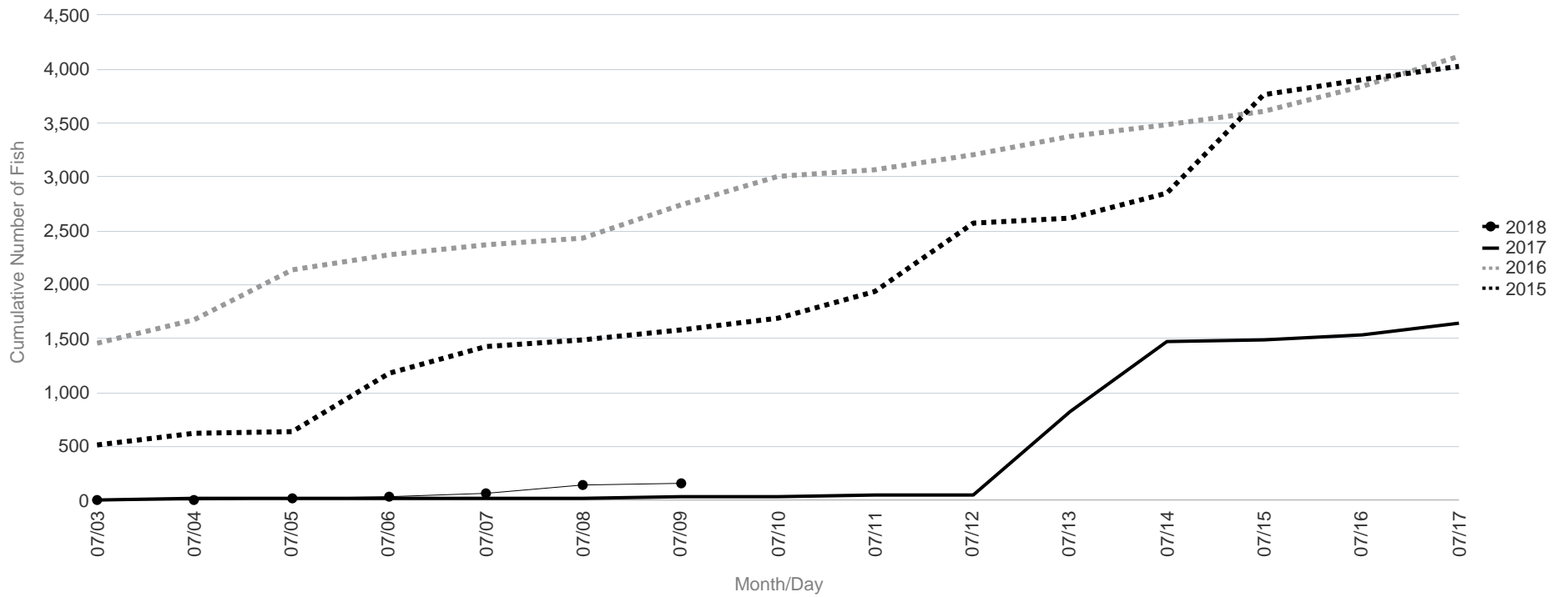


### Salmon River (Pitka Fork) Salmon Monitoring Project Cumulative Daily Passage of Chinook Salmon

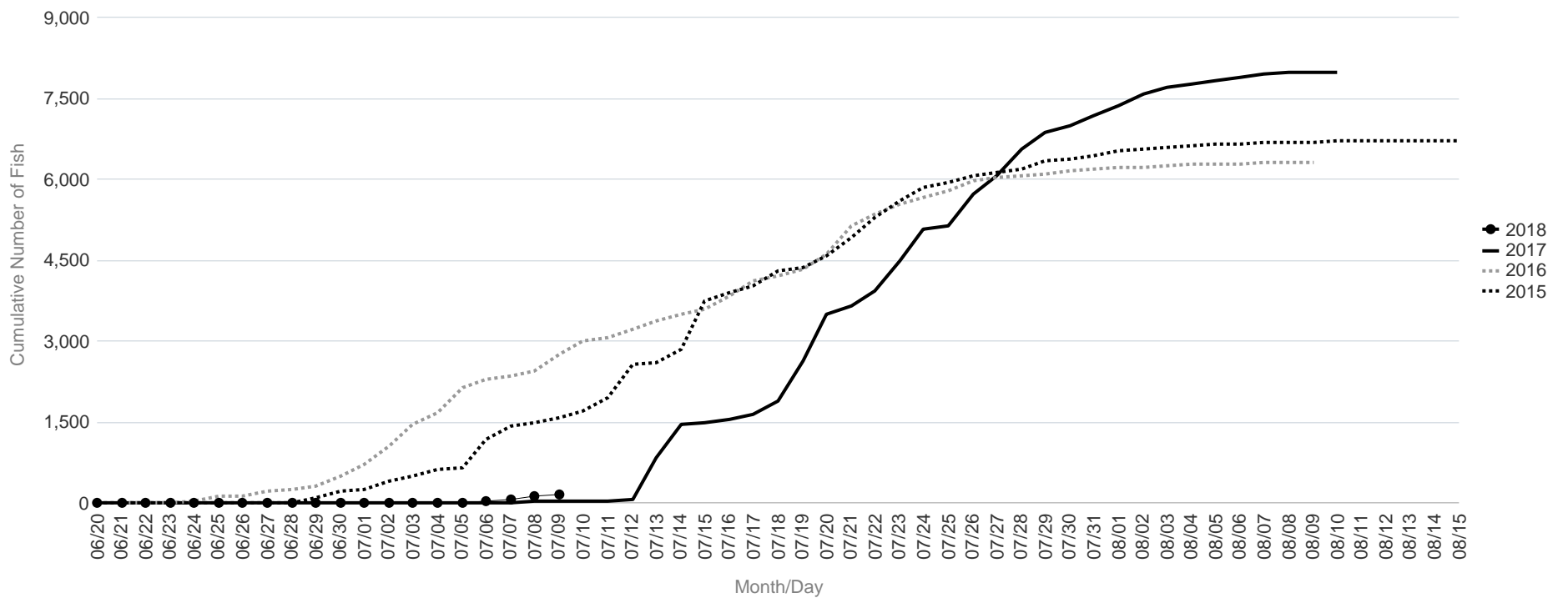
Cumulative Daily Passage				
Date	2015	2016	2017	2018
07/03	513	1,450	5	4
07/04	629	1,668	15	6
07/05	644	2,141	17	14
07/06	1,177	2,284	19	36
07/07	1,425	2,366	20	58
07/08	1,493	2,439	21	144
07/09	1,580	2,746	34	156
07/10	1,693	2,999	35	
07/11	1,945	3,072	43	
07/12	2,569	3,211	56	
07/13	2,618	3,376	827	
07/14	2,858	3,488	1,475	
07/15	3,763	3,605	1,493	
07/16	3,910	3,839	1,542	
07/17	4,022	4,113	1,637	

	2015	2016	2017
Season Total	6,736	6,326	8,003

#### Focused Two-Week Data View



#### Season Total Overview

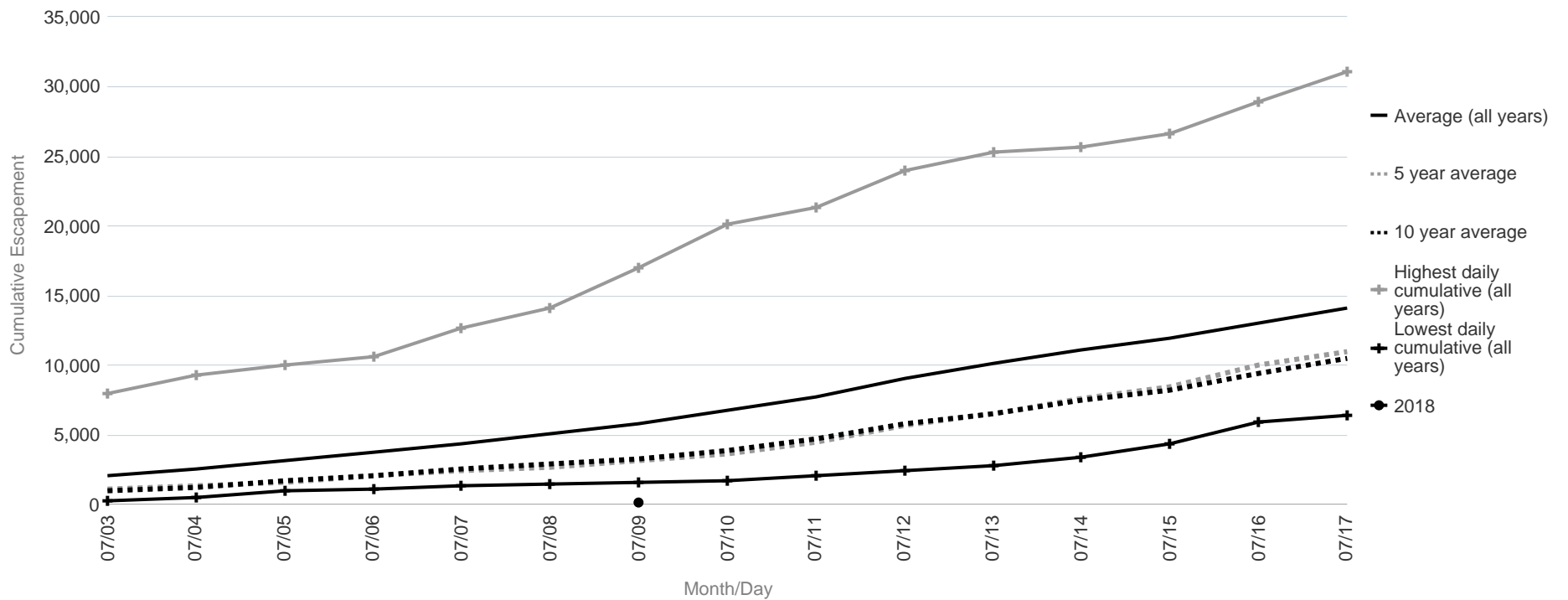


### Kwethluk River Salmon Monitoring Project Cumulative Daily Passage of Chum Salmon

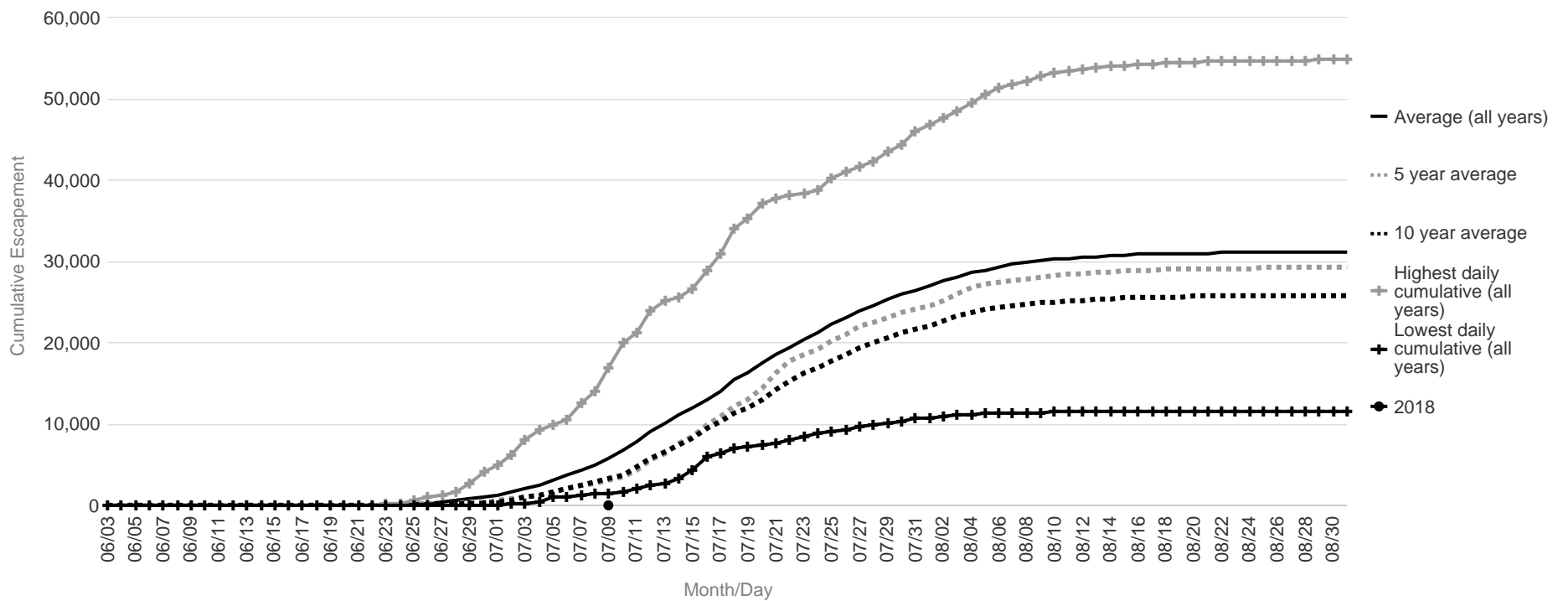
Date	Lowest daily cumulative (all years)	Average (all years)	5 year average	10 year average	Highest daily cumulative (all years)	2018
07/03	289	2,113	1,049	973	8,014	
07/04	475	2,609	1,310	1,277	9,260	
07/05	971	3,169	1,608	1,663	9,965	
07/06	1,116	3,783	2,017	2,055	10,653	
07/07	1,356	4,392	2,425	2,524	12,646	
07/08	1,414	5,049	2,711	2,926	14,065	
07/09	1,552	5,825	3,099	3,314	17,038	127
07/10	1,727	6,787	3,616	3,840	20,074	
07/11	2,077	7,781	4,456	4,683	21,339	
07/12	2,442	9,101	5,628	5,772	23,940	
07/13	2,769	10,189	6,482	6,544	25,299	
07/14	3,385	11,124	7,568	7,454	25,719	
07/15	4,386	11,913	8,497	8,228	26,606	
07/16	5,937	13,015	9,993	9,449	28,951	
07/17	6,461	14,120	11,015	10,444	31,045	

	Lowest Count	Average Count	5 Year Average	10 Year Average	Highest Count
Season Total	11,691	31,227	29,409	25,926	54,913

#### Focused Two-Week Data View



#### Season Total Overview

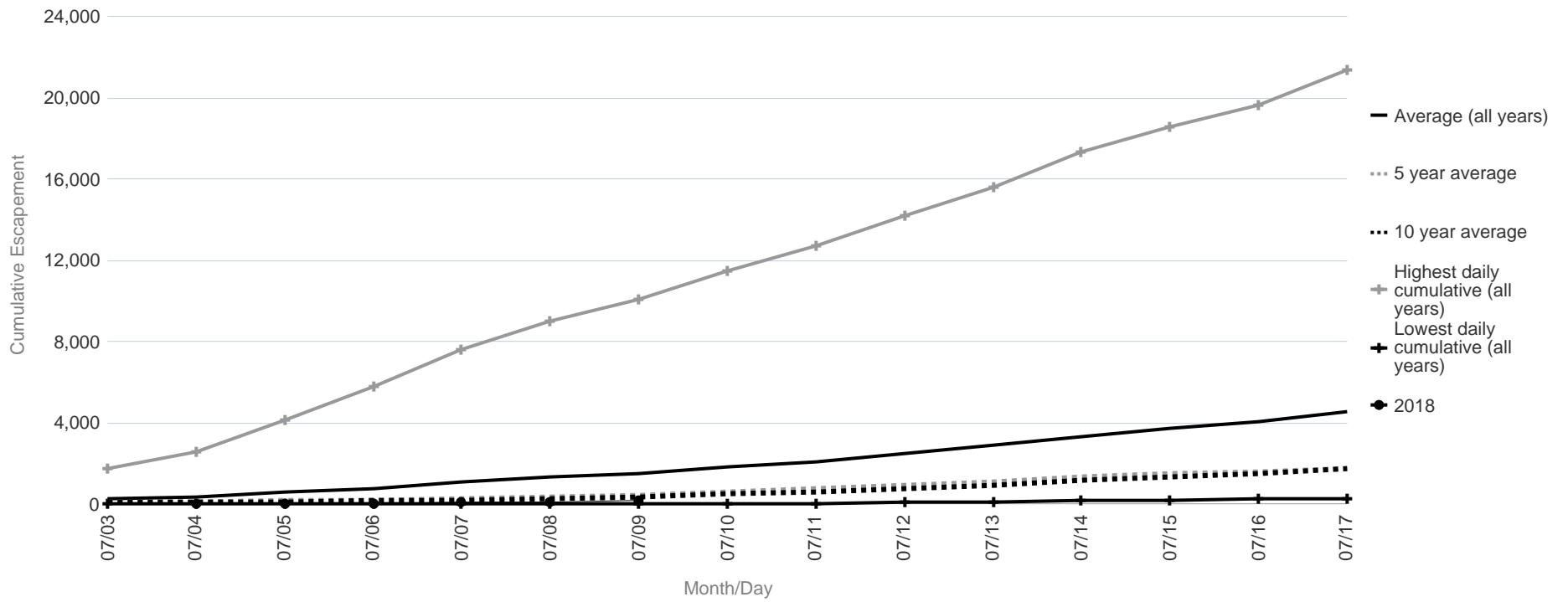


### Salmon River (Aniak) Salmon Monitoring Project Cumulative Daily Passage of Chum Salmon

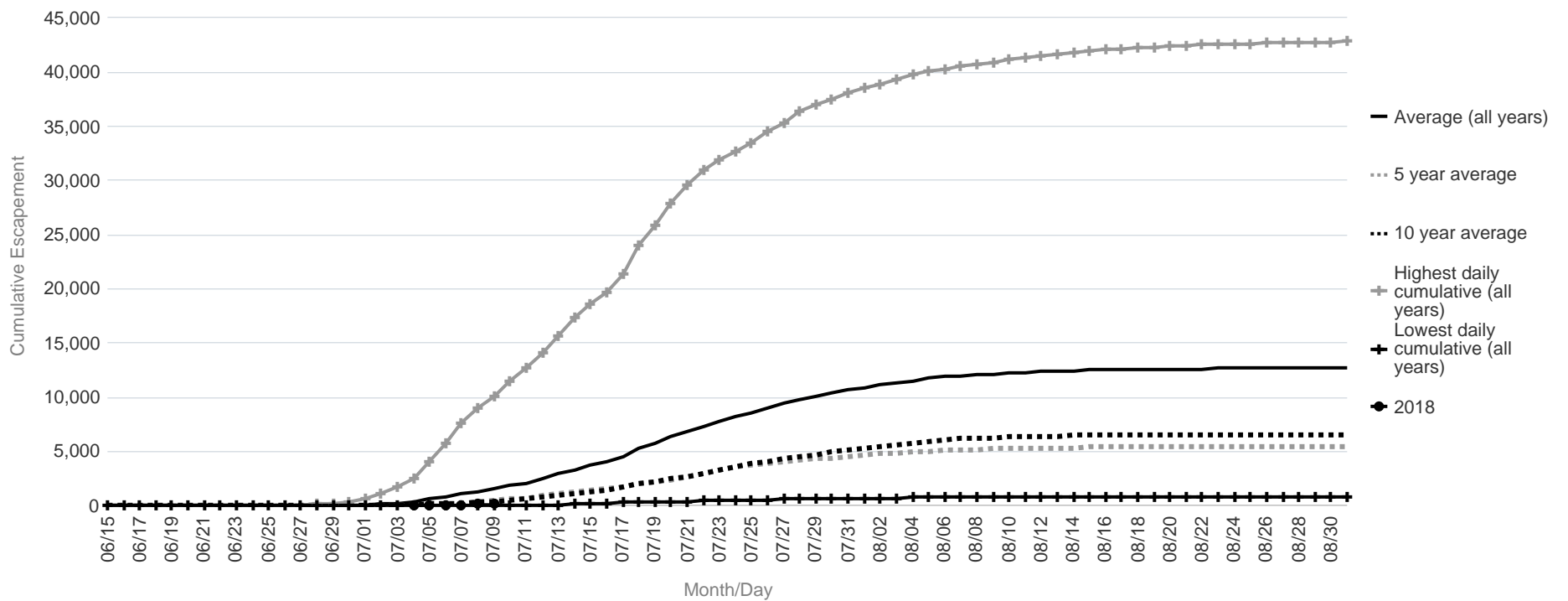
Date	Lowest daily cumulative (all years)	Average (all years)	5 year average	10 year average	Highest daily cumulative (all years)	2018
07/03	0	249	72	57	1,748	
07/04	0	358	97	77	2,554	5
07/05	0	570	144	118	4,117	6
07/06	0	797	192	160	5,758	32
07/07	1	1,068	252	211	7,644	80
07/08	3	1,297	332	275	9,007	116
07/09	8	1,540	432	365	10,097	158
07/10	17	1,831	568	474	11,488	
07/11	32	2,109	717	595	12,734	
07/12	57	2,498	911	759	14,188	
07/13	95	2,922	1,115	946	15,654	
07/14	155	3,352	1,304	1,152	17,358	
07/15	195	3,728	1,467	1,328	18,624	
07/16	223	4,060	1,567	1,487	19,700	
07/17	259	4,563	1,734	1,707	21,408	

	Lowest Count	Average Count	5 Year Average	10 Year Average	Highest Count
Season Total	816	12,697	5,452	6,587	42,825

#### Focused Two-Week Data View



#### Season Total Overview



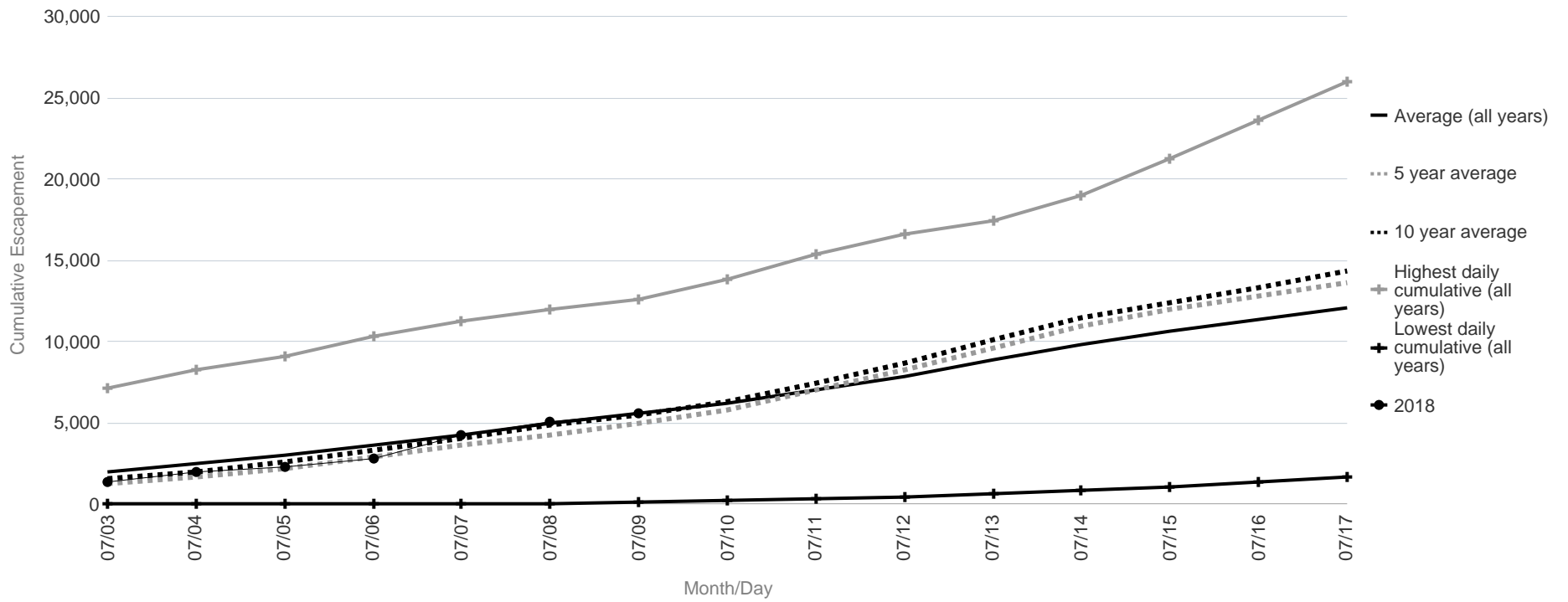


### George River Salmon Monitoring Project Cumulative Daily Passage of Chum Salmon

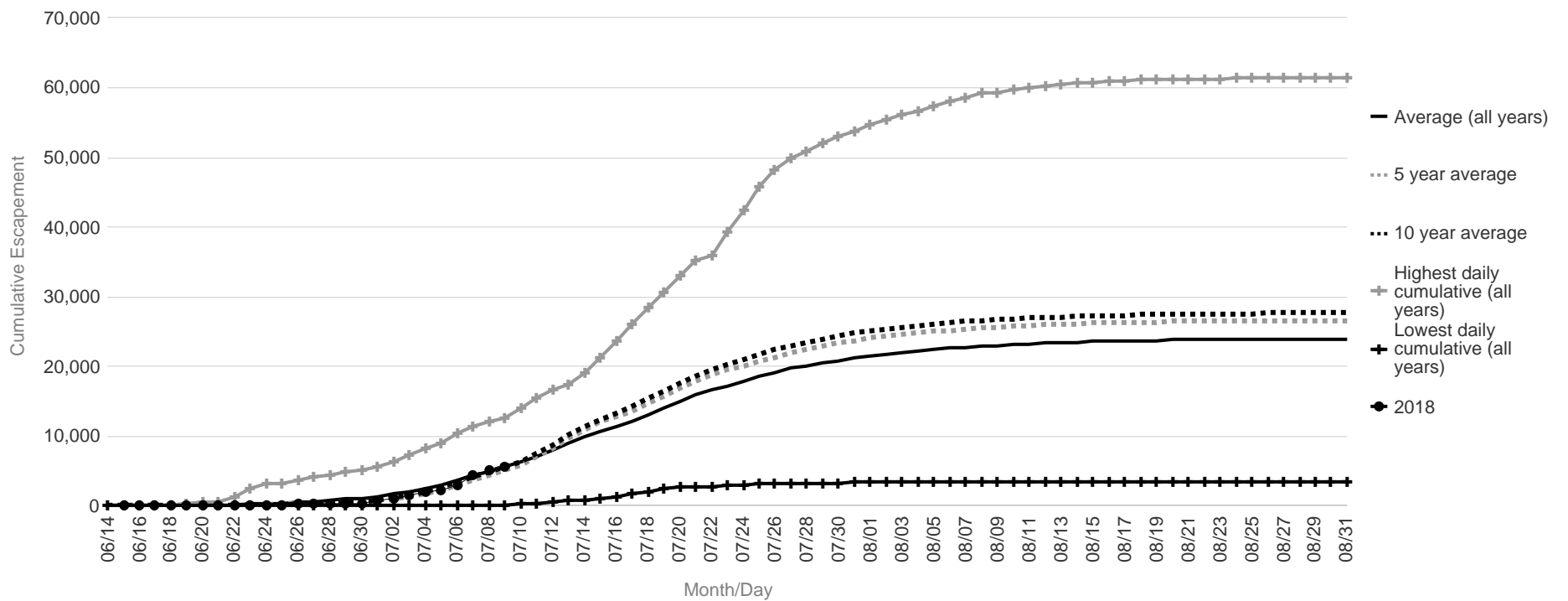
Date	Lowest daily cumulative (all years)	Average (all years)	5 year average	10 year average	Highest daily cumulative (all years)	2018
07/03	1	2,023	1,301	1,518	7,165	1,408
07/04	3	2,481	1,640	1,958	8,239	1,974
07/05	7	3,036	2,181	2,647	9,060	2,286
07/06	16	3,662	2,856	3,337	10,334	2,841
07/07	33	4,265	3,608	4,044	11,293	4,264
07/08	62	4,950	4,290	4,817	11,972	5,076
07/09	111	5,591	4,994	5,515	12,590	5,565
07/10	186	6,222	5,807	6,318	13,890	
07/11	296	7,008	7,002	7,412	15,426	
07/12	447	7,906	8,253	8,694	16,624	
07/13	646	8,862	9,590	10,106	17,482	
07/14	828	9,832	10,943	11,430	18,971	
07/15	1,022	10,604	11,989	12,380	21,305	
07/16	1,355	11,343	12,807	13,356	23,666	
07/17	1,682	12,134	13,606	14,323	26,030	

	Lowest Count	Average Count	5 Year Average	10 Year Average	Highest Count
Season Total	3,507	24,023	26,688	27,702	61,531

#### Focused Two-Week Data View



#### Season Total Overview



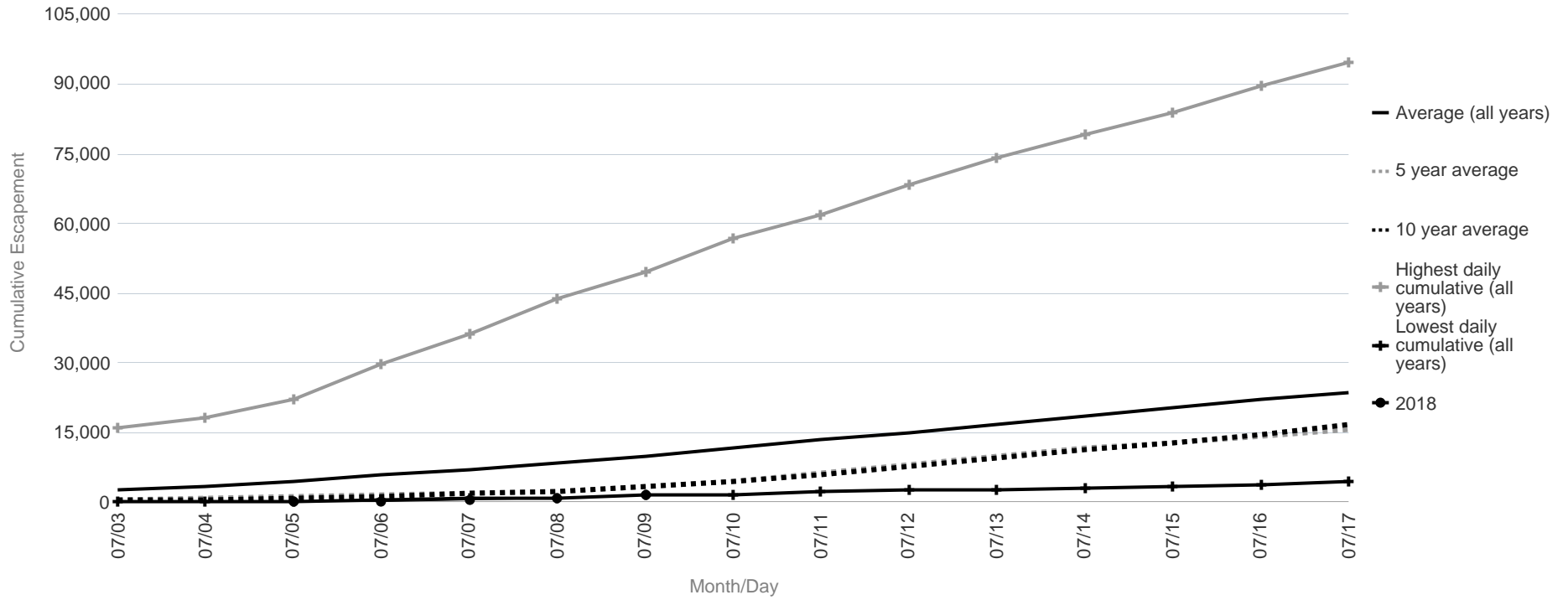
## Kogrukluk River Salmon Monitoring Project Cumulative Daily Passage of Chum Salmon

Escapement Goal Range: 15,000 to 49,000

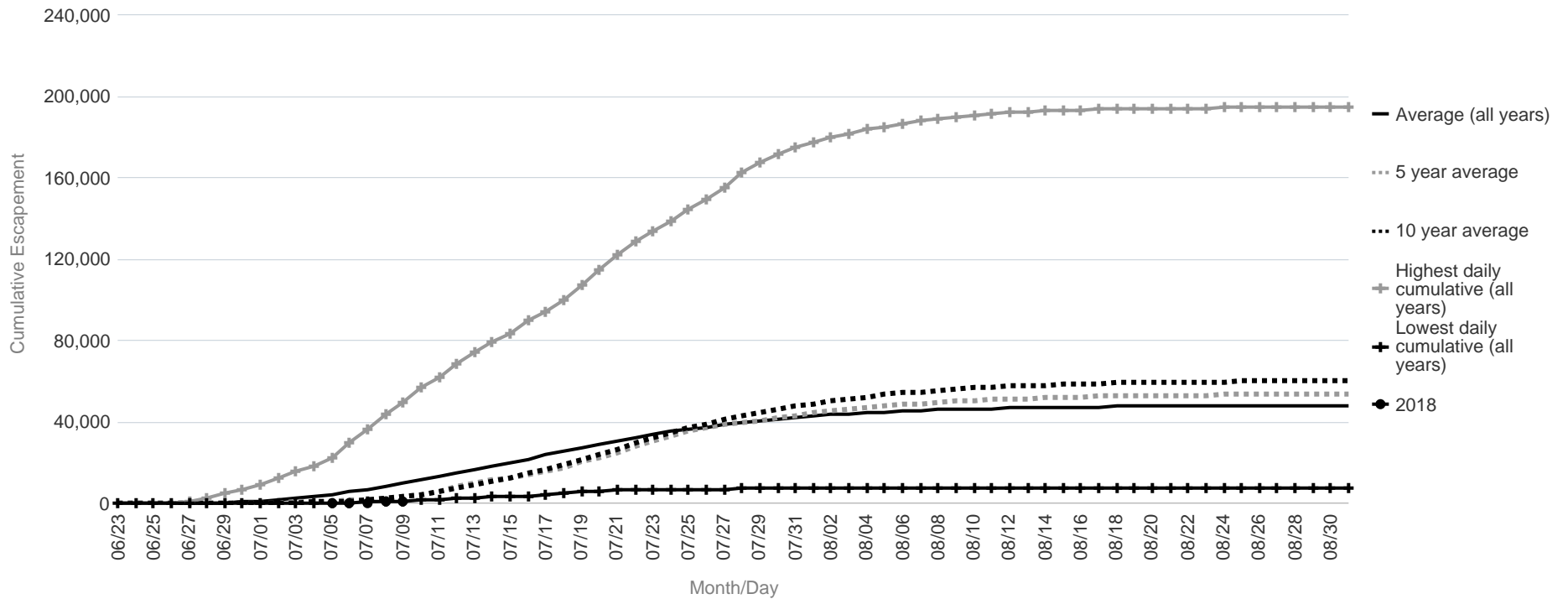
Date	Lowest daily cumulative (all years)	Average (all years)	5 year average	10 year average	Highest daily cumulative (all years)	2018
07/03	4	2,535	552	407	15,917	
07/04	124	3,371	717	569	18,024	
07/05	234	4,478	1,035	887	22,060	23
07/06	405	5,716	1,431	1,252	29,780	211
07/07	747	6,991	1,922	1,750	36,192	474
07/08	893	8,413	2,372	2,349	43,627	918
07/09	1,368	9,925	3,228	3,246	49,581	1,333
07/10	1,659	11,598	4,470	4,432	56,718	
07/11	2,122	13,245	6,036	5,942	61,725	
07/12	2,492	14,985	8,040	7,741	68,339	
07/13	2,739	16,700	9,990	9,580	74,233	
07/14	3,063	18,440	11,444	11,080	79,261	
07/15	3,393	20,124	12,804	12,627	83,914	
07/16	3,804	22,001	14,177	14,614	89,805	
07/17	4,321	23,699	15,699	16,725	94,567	

	Lowest Count	Average Count	5 Year Average	10 Year Average	Highest Count
Season Total	7,975	48,152	53,879	60,300	194,887

### Focused Two-Week Data View



### Season Total Overview

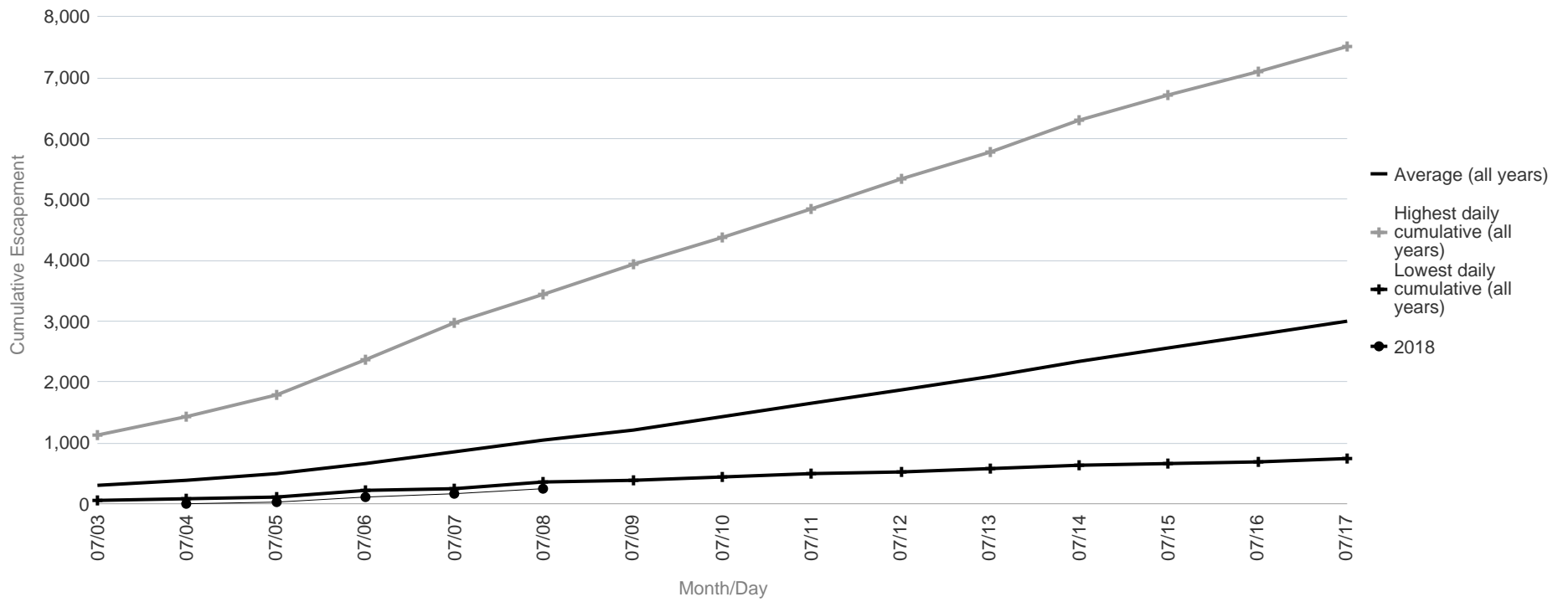


### Takotna River Salmon Monitoring Project Cumulative Daily Passage of Chum Salmon

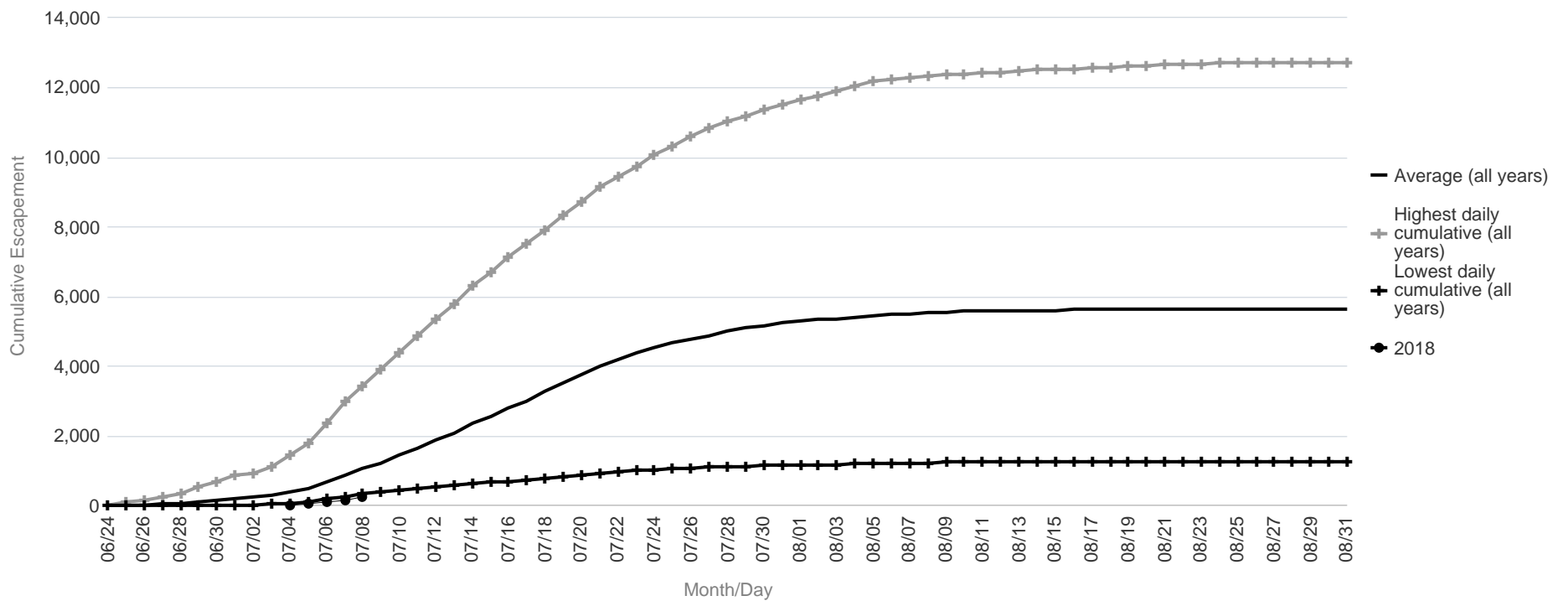
Date	Lowest daily cumulative (all years)	Average (all years)	Highest daily cumulative (all years)	2018
07/03	49	306	1,121	
07/04	74	393	1,430	1
07/05	120	512	1,781	36
07/06	211	662	2,374	122
07/07	265	860	2,990	163
07/08	364	1,046	3,449	253
07/09	391	1,228	3,929	
07/10	442	1,438	4,391	
07/11	500	1,647	4,860	
07/12	529	1,888	5,348	
07/13	578	2,098	5,796	
07/14	628	2,353	6,313	
07/15	663	2,571	6,726	
07/16	696	2,788	7,118	
07/17	747	3,013	7,510	

	Lowest Count	Average Count	Highest Count
Season Total	1,265	5,655	12,729

#### Focused Two-Week Data View



#### Season Total Overview

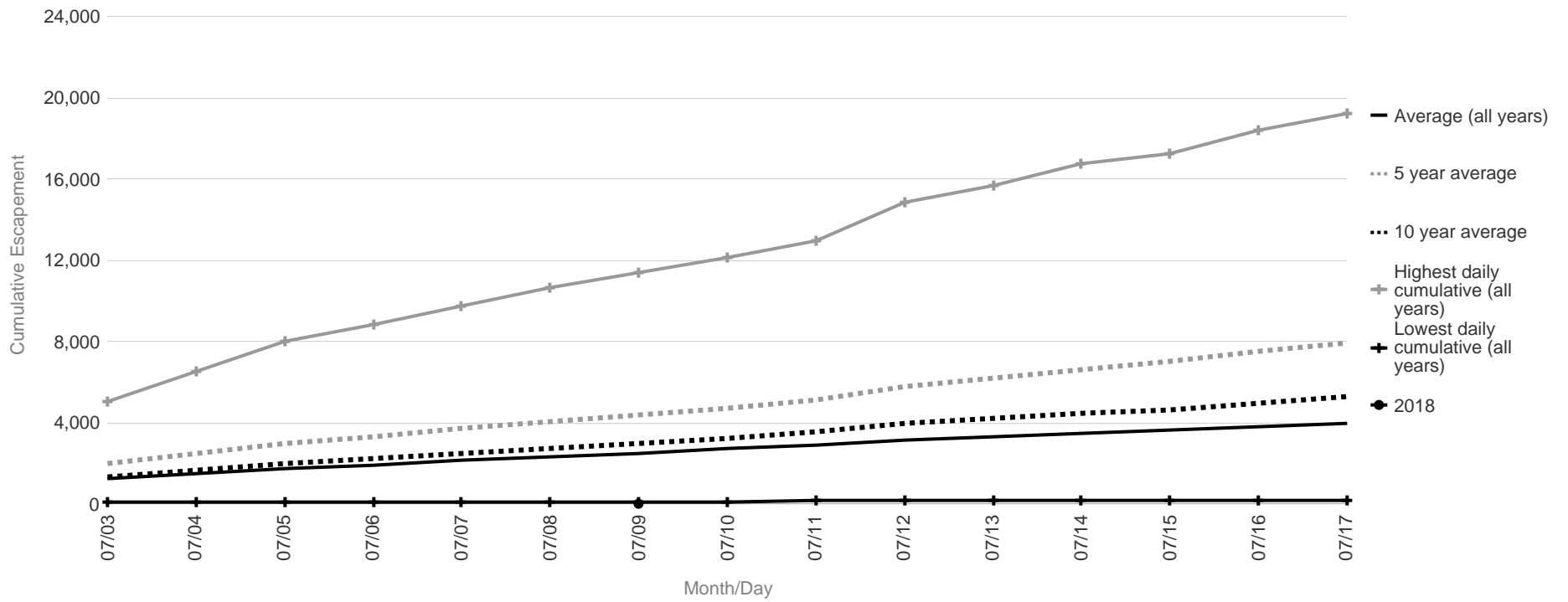


### Kwethluk River Salmon Monitoring Project Cumulative Daily Passage of Sockeye Salmon

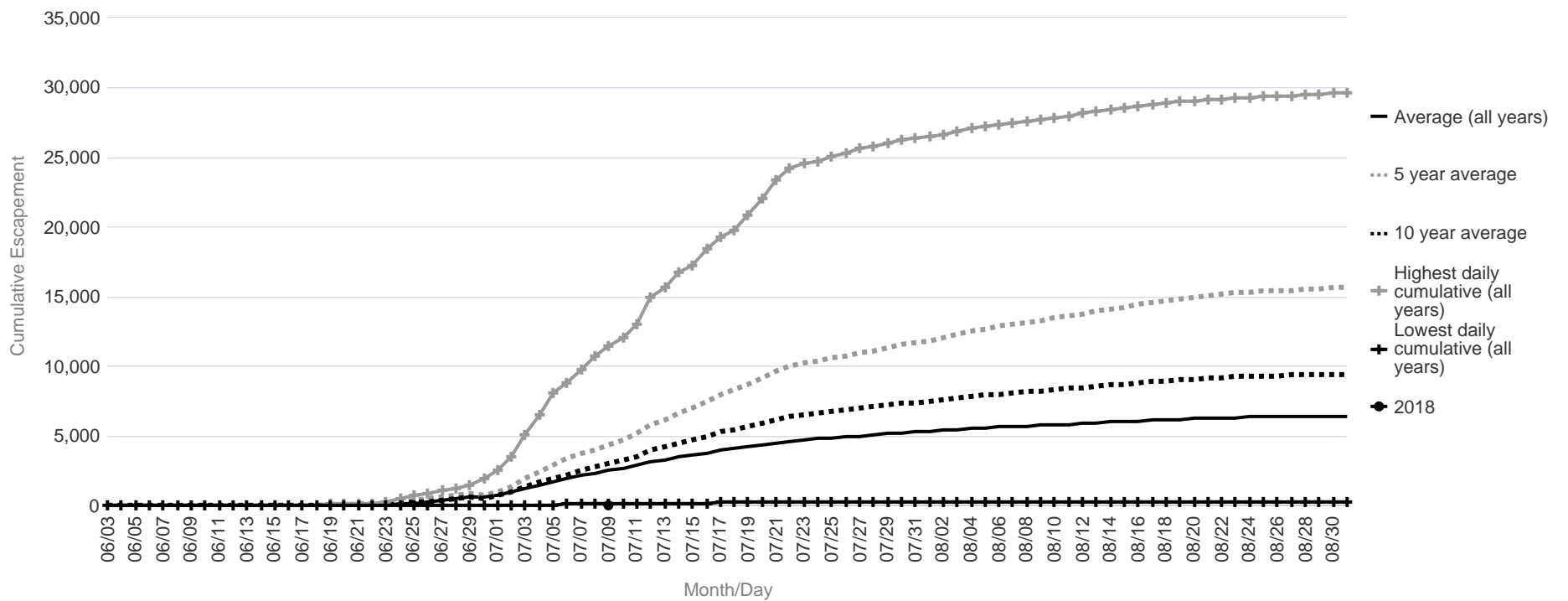
Date	Lowest daily cumulative (all years)	Average (all years)	5 year average	10 year average	Highest daily cumulative (all years)	2018
07/03	59	1,225	1,962	1,321	5,053	
07/04	70	1,470	2,483	1,680	6,537	
07/05	77	1,727	2,963	1,998	8,056	
07/06	99	1,941	3,340	2,247	8,853	
07/07	109	2,130	3,708	2,488	9,773	
07/08	113	2,338	4,045	2,768	10,694	
07/09	115	2,521	4,367	2,999	11,400	18
07/10	134	2,716	4,706	3,260	12,116	
07/11	145	2,914	5,140	3,556	12,975	
07/12	154	3,168	5,780	3,956	14,913	
07/13	157	3,319	6,167	4,187	15,714	
07/14	163	3,476	6,627	4,445	16,773	
07/15	170	3,609	6,997	4,668	17,241	
07/16	182	3,787	7,489	4,974	18,447	
07/17	204	3,963	7,968	5,270	19,235	

	Lowest Count	Average Count	5 Year Average	10 Year Average	Highest Count
Season Total	272	6,475	15,824	9,524	29,938

#### Focused Two-Week Data View



#### Season Total Overview

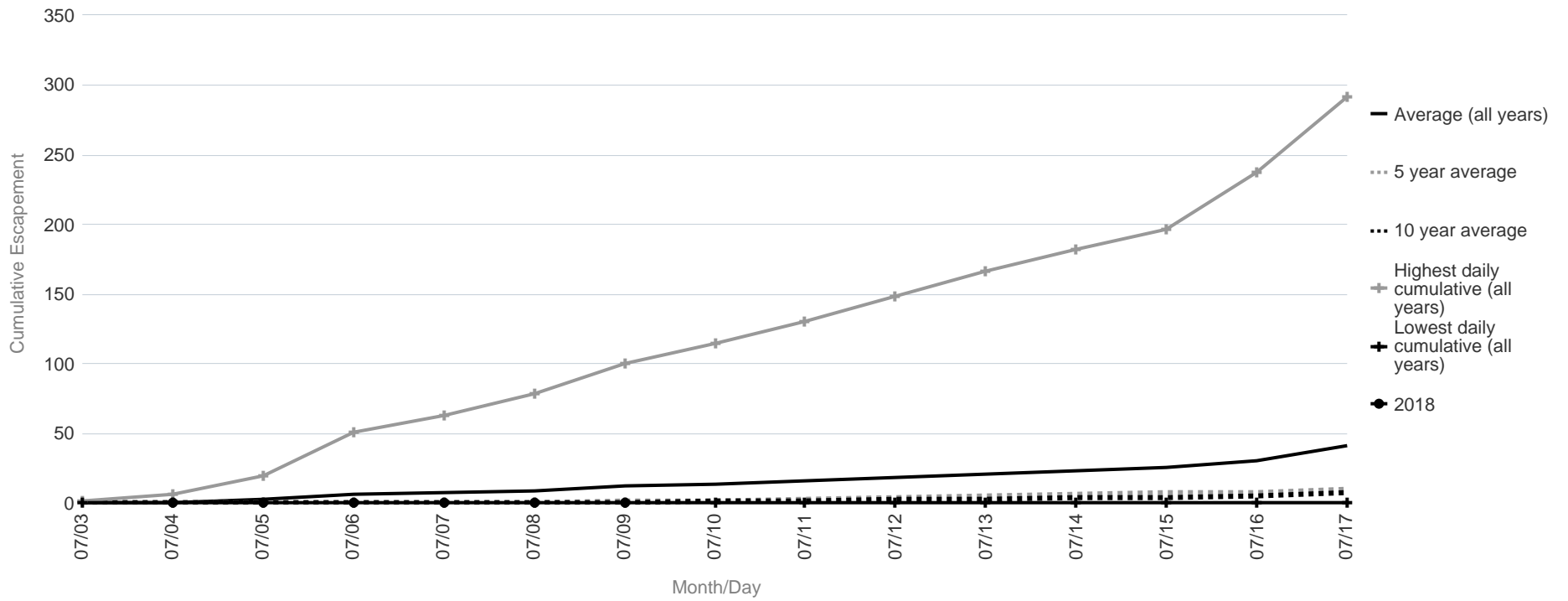


### Salmon River (Aniak) Salmon Monitoring Project Cumulative Daily Passage of Sockeye Salmon

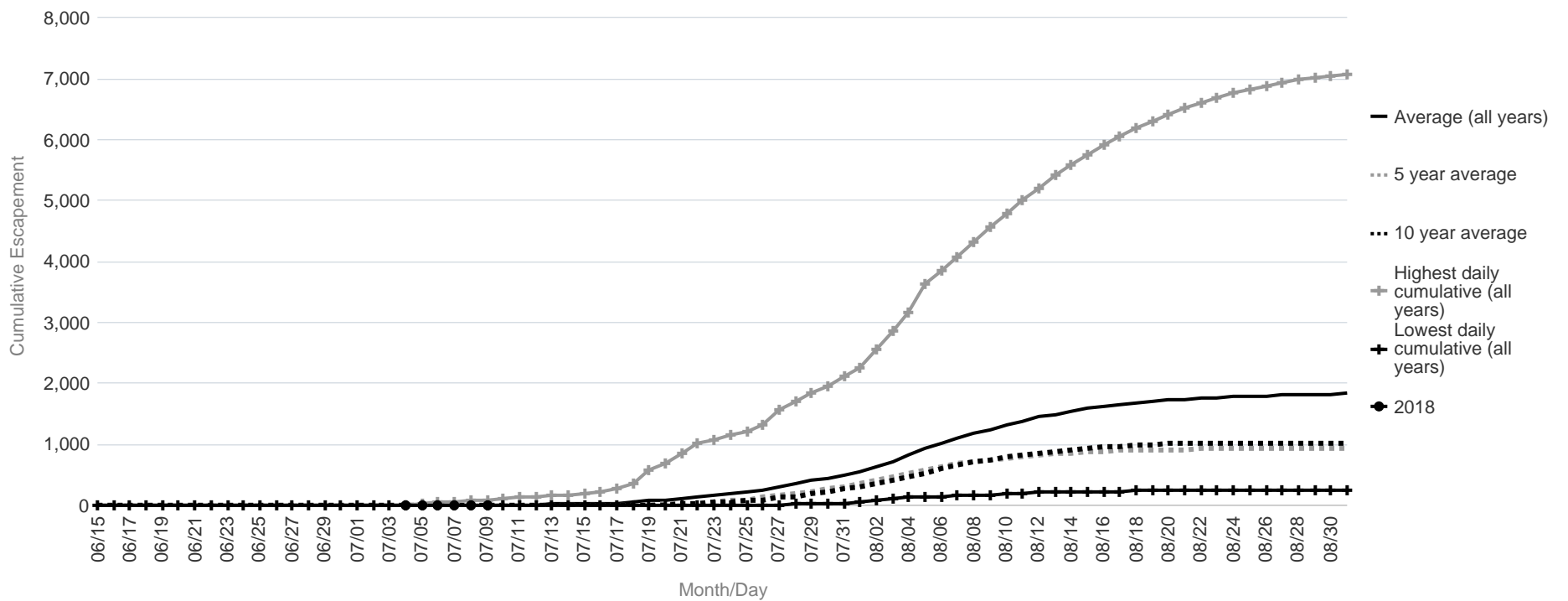
Date	Lowest daily cumulative (all years)	Average (all years)	5 year average	10 year average	Highest daily cumulative (all years)	2018
07/03	0	0	0	0	2	
07/04	0	1	0	0	6	0
07/05	0	2	0	0	19	0
07/06	0	6	0	0	51	0
07/07	0	7	0	0	63	0
07/08	0	9	1	0	79	0
07/09	0	12	1	1	100	0
07/10	0	13	2	1	114	
07/11	0	15	2	1	130	
07/12	0	18	4	2	148	
07/13	0	21	5	3	166	
07/14	0	23	7	4	182	
07/15	0	25	7	4	196	
07/16	0	31	8	5	237	
07/17	0	41	10	7	291	

	Lowest Count	Average Count	5 Year Average	10 Year Average	Highest Count
Season Total	253	1,836	946	1,036	7,086

#### Focused Two-Week Data View



#### Season Total Overview



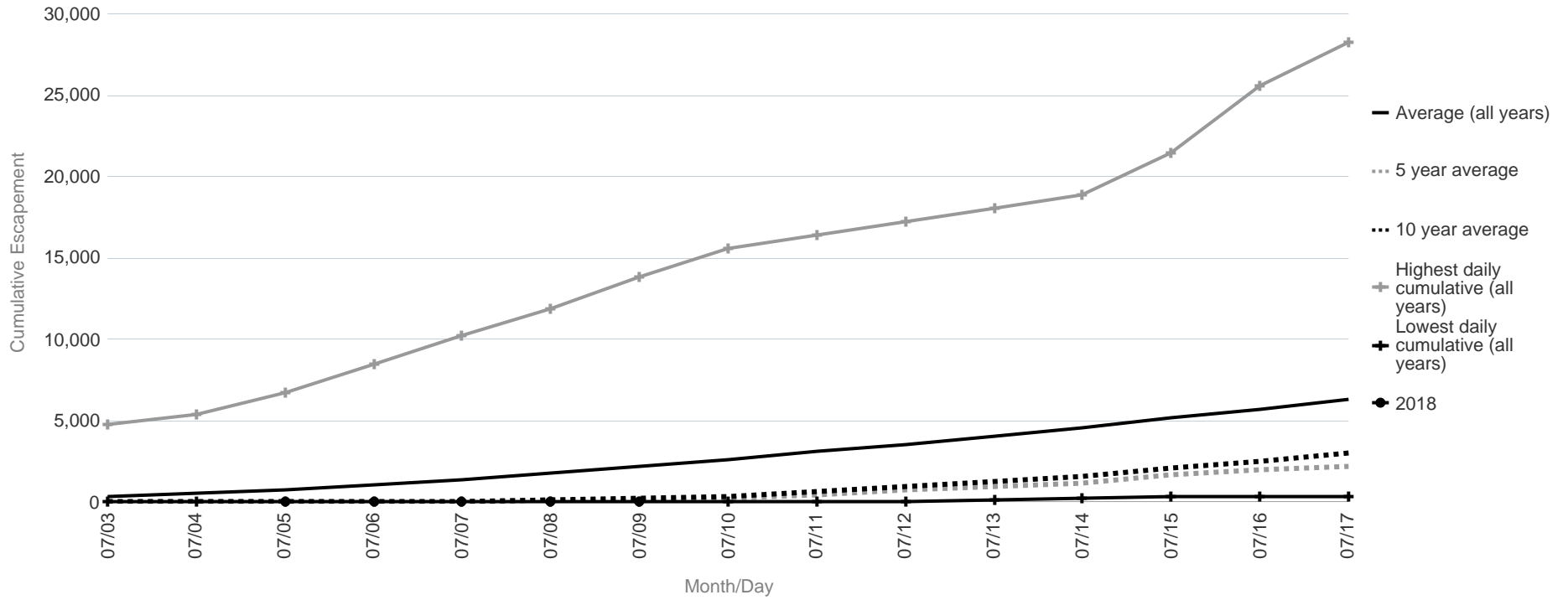
### Kogrukluk River Salmon Monitoring Project Cumulative Daily Passage of Sockeye Salmon

Escapement Goal Range: 4,400 to 17,000

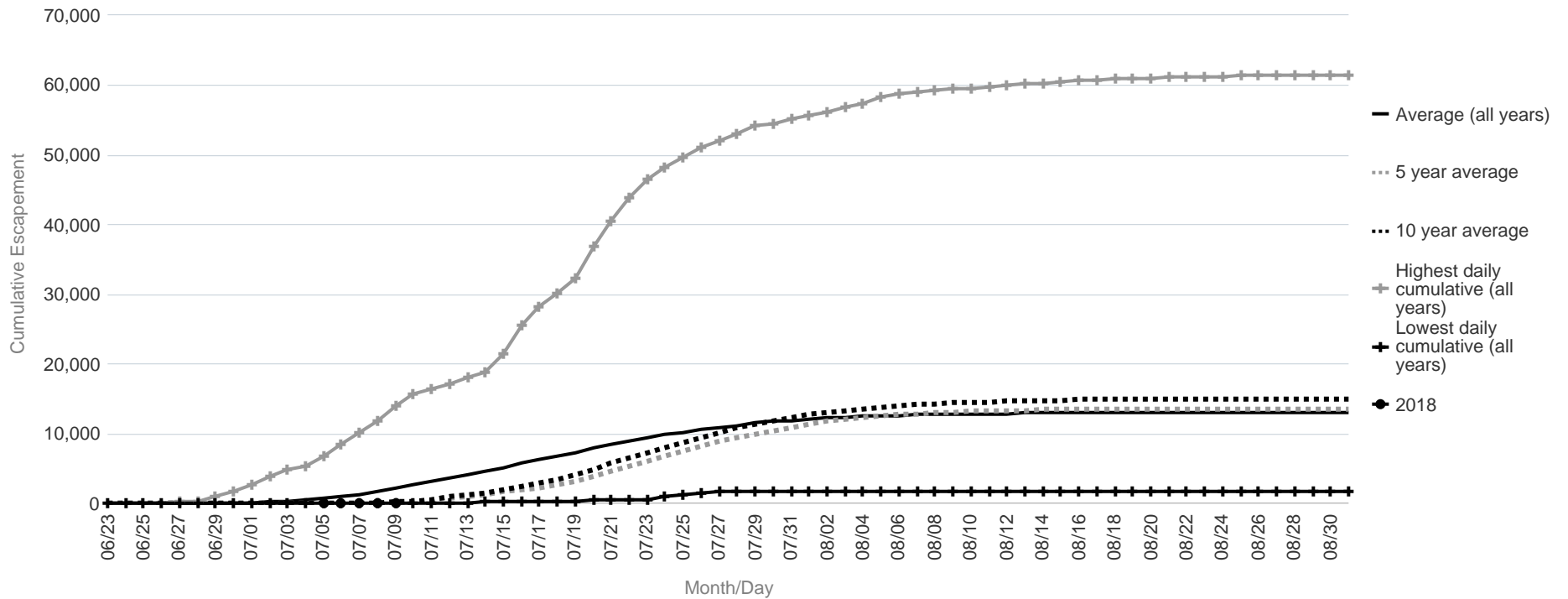
Date	Lowest daily cumulative (all years)	Average (all years)	5 year average	10 year average	Highest daily cumulative (all years)	2018
07/03	0	364	10	9	4,803	
07/04	0	522	18	15	5,427	
07/05	0	731	33	30	6,736	0
07/06	0	1,021	40	41	8,498	2
07/07	1	1,328	63	67	10,227	9
07/08	2	1,722	95	123	11,866	11
07/09	3	2,162	137	195	13,891	23
07/10	20	2,638	253	347	15,641	
07/11	37	3,085	480	639	16,389	
07/12	66	3,577	737	962	17,219	
07/13	118	4,038	968	1,268	18,040	
07/14	203	4,564	1,191	1,574	18,884	
07/15	295	5,126	1,660	2,053	21,504	
07/16	301	5,739	1,944	2,525	25,641	
07/17	329	6,307	2,182	2,993	28,331	

	Lowest Count	Average Count	5 Year Average	10 Year Average	Highest Count
Season Total	1,732	13,105	13,607	15,072	61,382

#### Focused Two-Week Data View



#### Season Total Overview

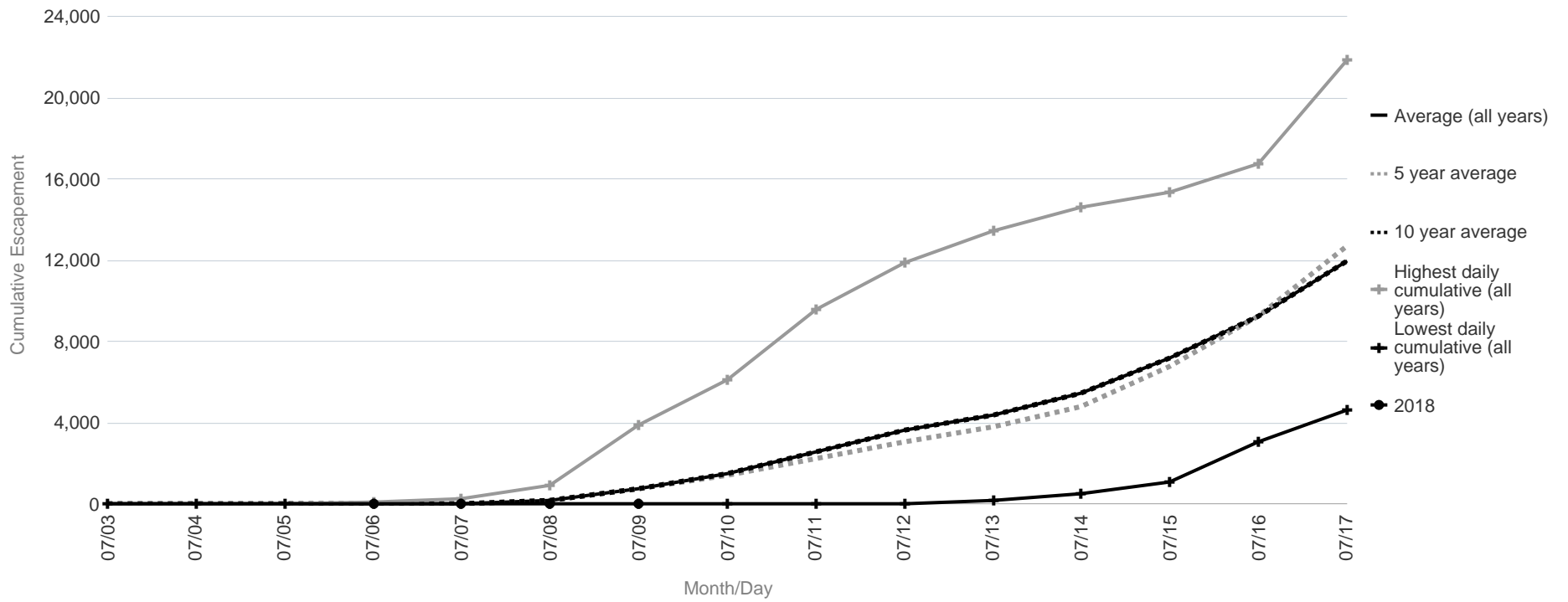


### Telaquana River Salmon Monitoring Project Cumulative Daily Passage of Sockeye Salmon

Date	Lowest daily cumulative (all years)	Average (all years)	5 year average	10 year average	Highest daily cumulative (all years)	2018
07/03	0	0	0	0	0	
07/04	0	0	0	0	0	
07/05	0	0	0	0	0	
07/06	0	8	0	8	59	0
07/07	0	38	1	38	302	1
07/08	0	197	189	197	928	1
07/09	0	735	792	735	3,921	1
07/10	0	1,503	1,435	1,503	6,135	
07/11	0	2,592	2,283	2,592	9,584	
07/12	0	3,622	3,083	3,622	11,918	
07/13	162	4,389	3,775	4,389	13,466	
07/14	482	5,488	4,820	5,488	14,612	
07/15	1,072	7,195	6,821	7,195	15,403	
07/16	3,054	9,244	9,248	9,244	16,784	
07/17	4,636	12,017	12,757	12,017	21,869	

	Lowest Count	Average Count	5 Year Average	10 Year Average	Highest Count
Season Total	23,005	63,233	75,164	63,233	145,257

#### Focused Two-Week Data View



#### Season Total Overview

