

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: 07/25/2018

Time: 10:00 a.m.

Place: Bethel

Time Called to Order:

Chair: Alissa Rogers

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, ONC 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:
- 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

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 Inseason Harvest Monitoring Weekly Report

Summary of Final Interview Activities

ONC has conducted weekly surveys with 102 unique fish camps in the Bethel since June 4, 2018. Of these 102 fish camps, on average, each fish camp was contacted three times throughout the season. At this time, there are not many active fish camps because families have either met their goals, began transitioning into other subsistence activities or are waiting to target coho salmon.

Chinook salmon ASL (Age-Sex-Length) Sampling Program Recruits

ONC and ADF&G staff attempted to recruit ASL samplers at the Bethel boat harbor, Bethel area fish camps as well as pre-season recruitment at the local schools. As a result, we successfully recruited 18 ASL samplers.

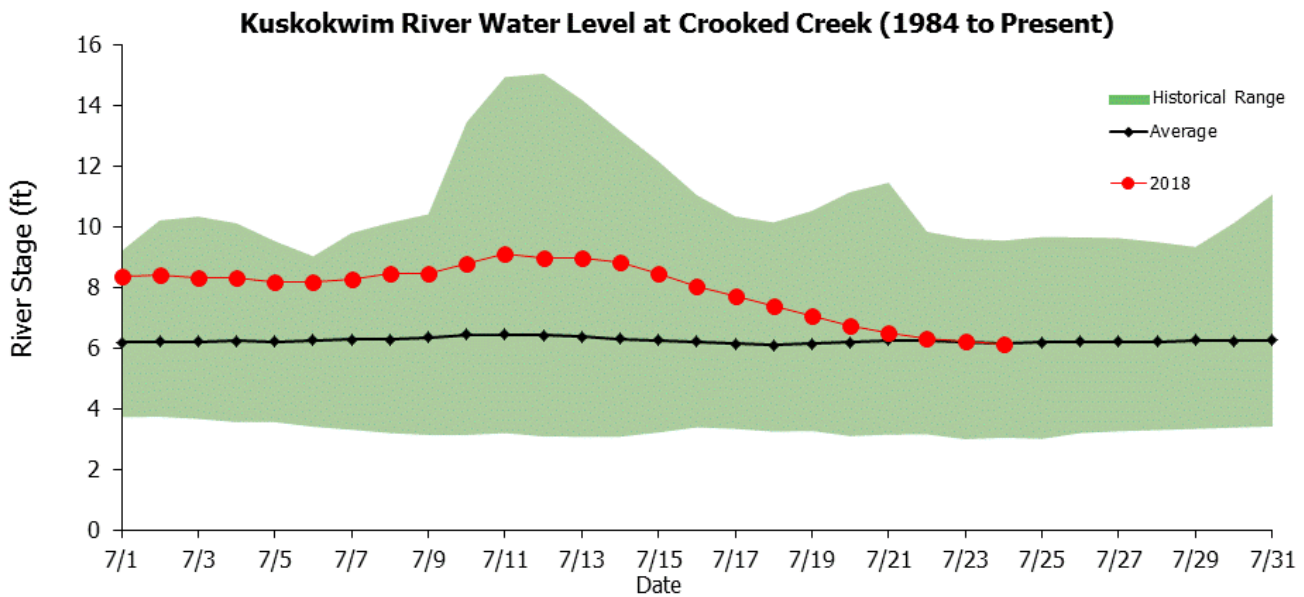
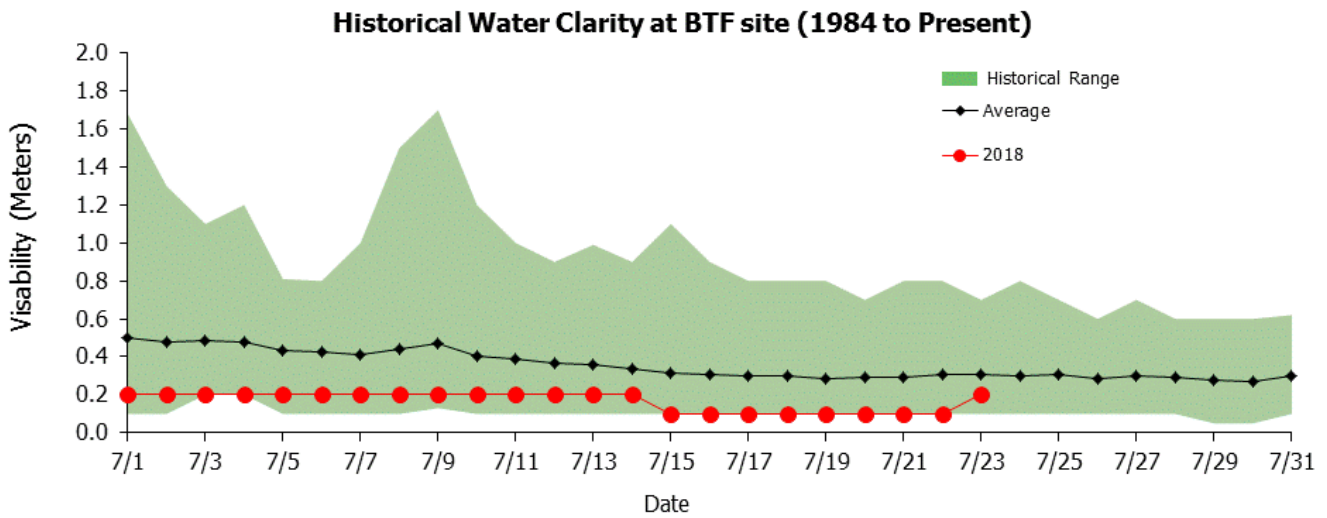
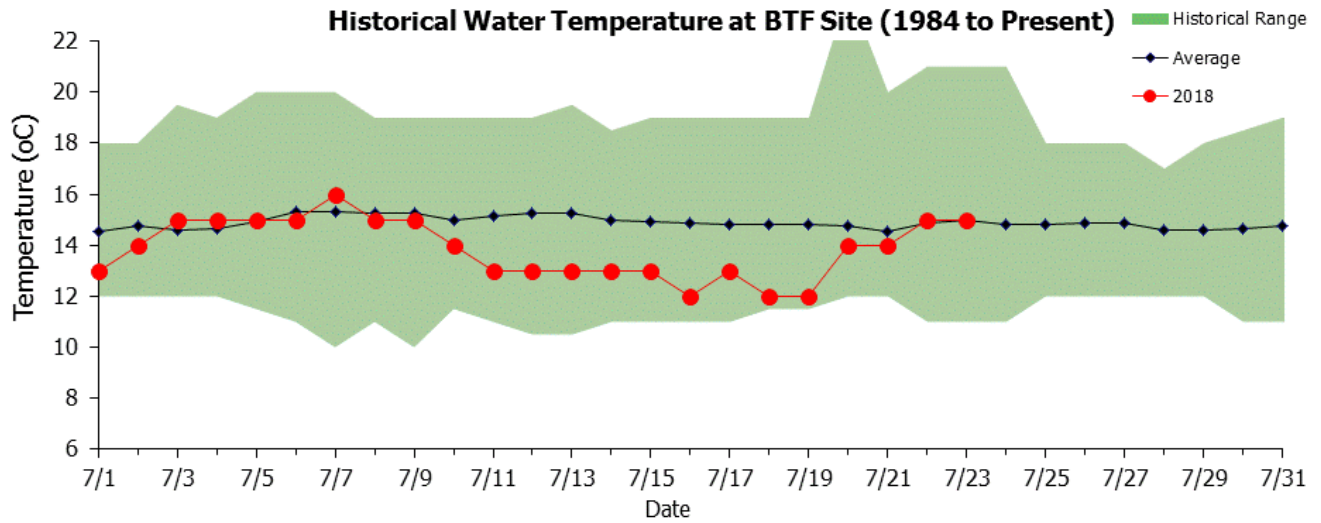
Fishing Progress Data

The most recent fishing progress information was collected by ONC surveyors on July 20. Of the 57 fish camps who shared their progress information with us, 44% (n=22) met their Chinook salmon harvest goals, 77% (n=39) met their chum salmon harvest goals and 60% (n=27) met their sockeye salmon harvest goals. Compared to 2017, the fishing progress information ONC surveyors collected during the last week of surveys indicates a higher percentage of responses met their Chinook salmon and sockeye salmon harvest goals this year. Of the respondents that did not meet at least one of their salmon harvest goals, specified reasons included restrictions, high water, combat fishing and bad weather causing their fish to spoil. Additional fish camps were unable to specify harvest goals because they “get as much as they need.”

End of Season Comments

ONC surveyors wanted to get an idea if fish camp respondents felt their voices were heard by being asked to provide information for managers each week. Roughly 58% of respondents (n=32) felt their voice was being heard through the inseason harvest monitoring program, 31% (n=17) did not feel their voice was heard by managers and 11% (n=6) of respondents were unsure.

Informational Packet



Informational Packet

Kuskokwim River Salmon Assessment Update

7/23/2018



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) or Nick Smith (ADF&G; nick.smith@alaska.gov).

Table of Contents

Bethel Test Fishery Summaries

- Page 2: [Coho Salmon](#)

Species Composition Summaries

- Page 3: [Percent Composition](#)

Appendices

- Page 4: [Sonar Passage Estimates](#)
- Page 5: [Chinook, Chum, and Sockeye Salmon](#)
- Page 6: [Coho Salmon](#)

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:

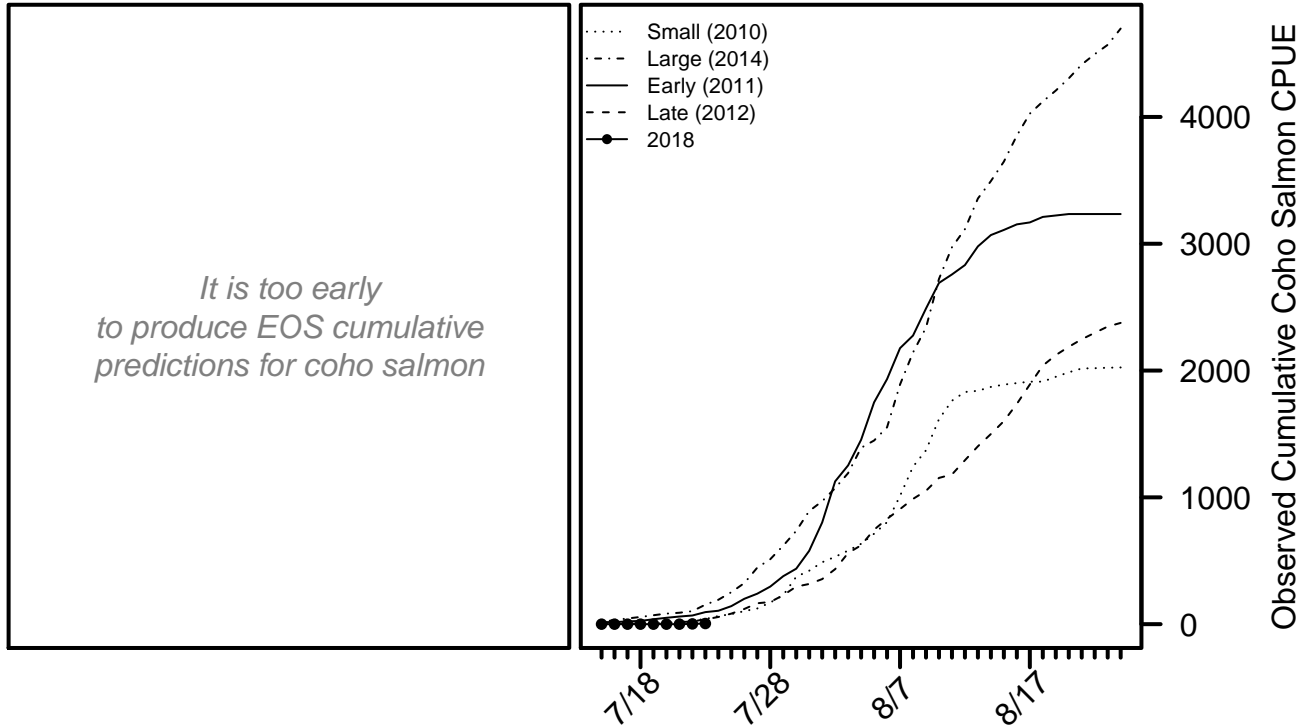
- USFWS: https://www.fws.gov/refuge/yukon_delta/wildlife_and_habitat/dailyupdate.html
- ADF&G: <http://www.adfg.alaska.gov/index.cfm?adfg=cfnews.main>

Informational Packet

Coho Salmon BTF Summary (7/23)

- The BTF daily CPUE was **3**.
- The BTF cumulative CPUE is now **5**.
- **0%** years since 2008 fell below this cumulative CPUE on this date.
- **2%** of the run is complete based on historical average run timing.
- **1% - 5%** of the run is complete based the central 50% of all historical run timing scenarios.
- **2% - 9%** of the run is expected to pass Bethel in the next 5 days.
- Over the last 3 days, coho salmon made up **2%** of the BTF catches, compared to **24%** on average.

Coho 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 2018 plotted along with four previous years intended to represent a range of early/late and small/large index values.



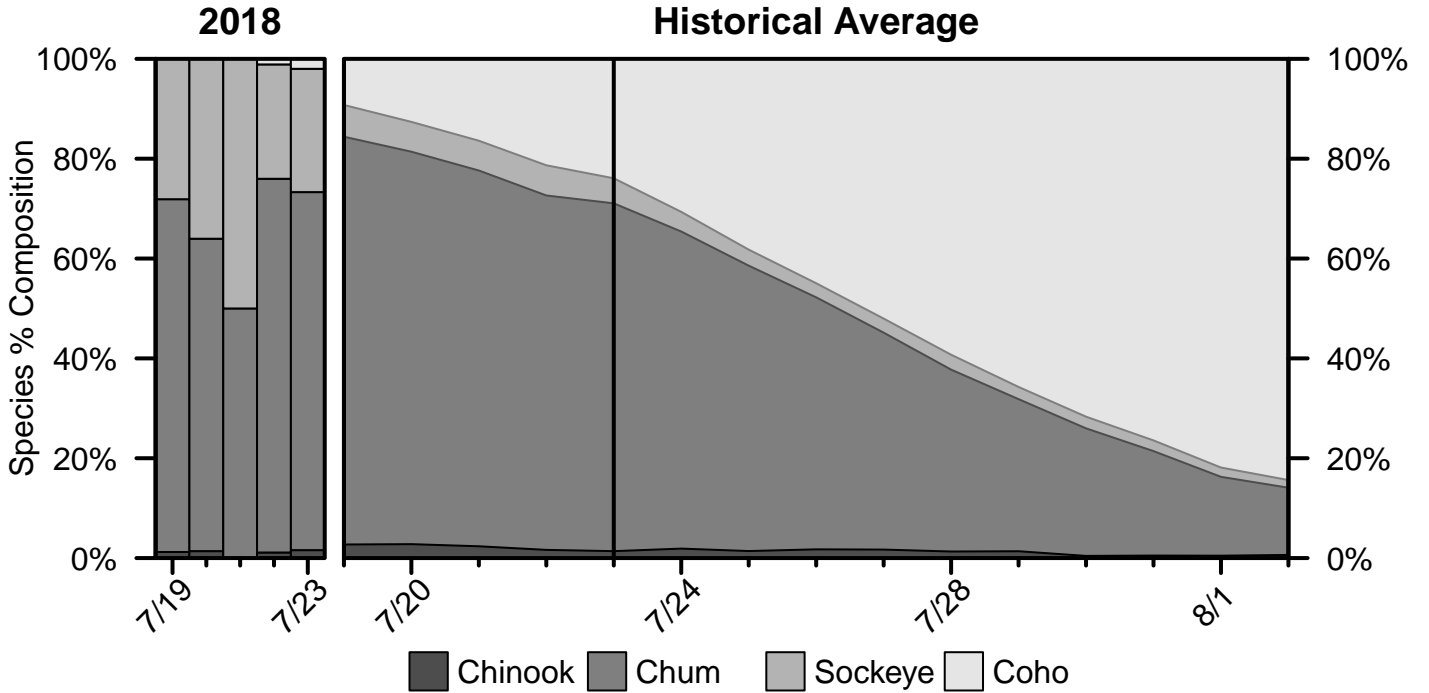
For more detailed information, see the [coho salmon appendix](#) at the end of this document.

[Return to Table of Contents](#)

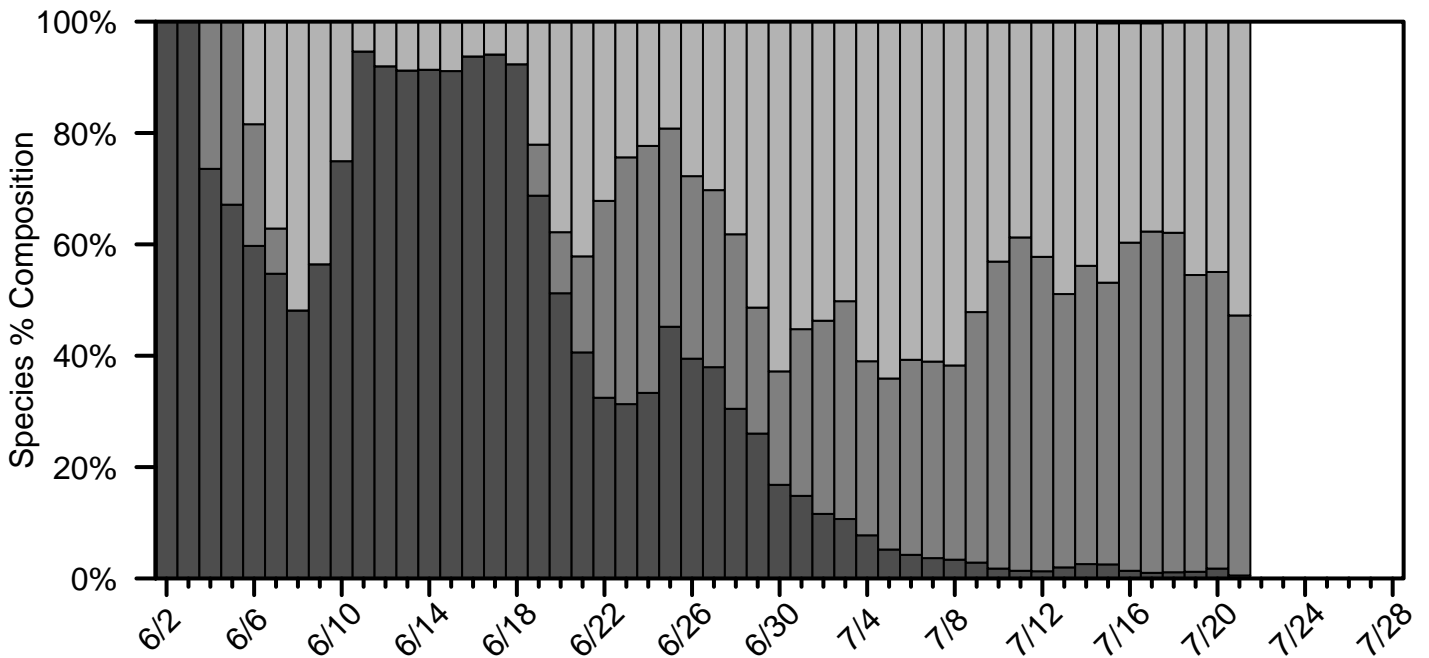
Informational Packet

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.

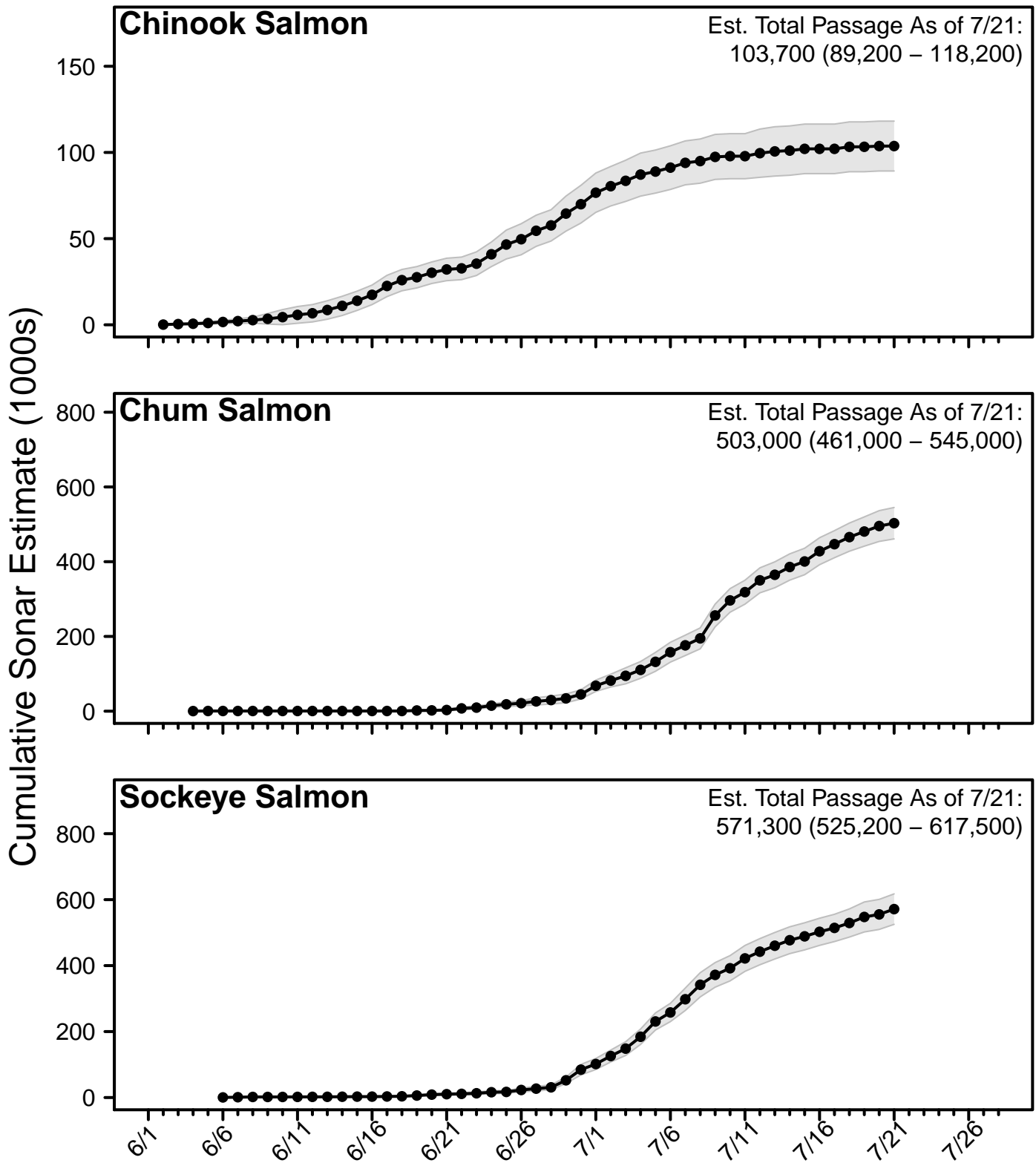


[Return to Table of Contents](#)

Informational Packet

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.**



[Return to Table of Contents](#)

Informational Packet

Chinook, Chum, Sockeye Salmon Summaries

Chinook Salmon Summary

- The BTF daily CPUE was **2** (cumulative: **649**).
- If the run ended on 7/23, 50% of the run would have passed BTF on **6/25**, which is **2 days later** than average.
- The ATF completed operations on 7/15 with an EOS cumulative CPUE of **820**, compared to **6,508** in 2017, **2,729** in 2016, and **2,916** in 2015.
- The table below shows cumulative CPUE from the BTF from 2018 and in previous years.

Date	2018	2017	2016	2015	2014	5-Yr Avg.	2008 - 2017 Avg.
7/20	645	356	666	584	648	503	526
7/21	645	356	666	589	648	504	527
7/22	647	358	666	597	648	506	528
7/23	649	360	667	600	648	507	529
EOS		374	687	625	650	519	538

Chum Salmon Summary

- The BTF daily CPUE was **57** (cumulative: **7,451**).
- If the run ended on 7/23, 50% of the run would have passed BTF on **7/9**, which is **4 days later** than average.
- The ATF completed operations on 7/15 with an EOS cumulative CPUE of **10,277**, compared to **11,588** in 2017, **5,304** in 2016, and **5,669** in 2015.
- The table below shows cumulative CPUE from the BTF from 2018 and in previous years.

Date	2018	2017	2016	2015	2014	5-Yr Avg.	2008 - 2017 Avg.
7/20	7,271	6,239	3,296	2,235	5,804	4,558	5,704
7/21	7,313	6,281	3,326	2,275	5,832	4,610	5,802
7/22	7,394	6,326	3,405	2,378	5,871	4,682	5,907
7/23	7,451	6,410	3,466	2,442	5,937	4,746	6,005
EOS		6,785	3,894	2,943	6,343	5,135	6,525

Sockeye Salmon Summary

- The BTF daily CPUE was **37** (cumulative: **1,989**).
- If the run ended on 7/23, 50% of the run would have passed BTF on **7/5**, which is **6 days later** than average.
- The ATF completed operations on 7/15 with an EOS cumulative CPUE of **75**, compared to **393** in 2017, **405** in 2016, and **1,245** in 2015.
- The table below shows cumulative CPUE from the BTF from 2018 and in previous years.

Date	2018	2017	2016	2015	2014	5-Yr Avg.	2008 - 2017 Avg.
7/20	1,927	2,431	1,902	2,057	1,323	1,771	1,603
7/21	1,935	2,460	1,929	2,073	1,323	1,786	1,612
7/22	1,952	2,477	1,979	2,091	1,328	1,804	1,622
7/23	1,989	2,492	2,030	2,098	1,334	1,819	1,630
EOS		2,690	2,463	2,157	1,367	1,965	1,711

[Return to Table of Contents](#)

Informational Packet

Coho Salmon Appendix

Coho Salmon Table A1. Cumulative CPUE from the BTF.

Date	2018	2017	2016	2015	2014	5-Yr Avg.	2008 - 2017 Avg.
7/20	0	12	24	25	83	47	51
7/21	0	19	29	44	90	59	69
7/22	2	33	59	63	102	79	101
7/23	5	41	82	94	154	105	134
7/24		58	97	115	192	127	167
7/25		94	123	130	252	160	208
7/26		119	156	177	324	201	258
EOS		3,245	3,530	2,736	4,697	3,414	3,470

Coho Salmon Table A2. Percent of run complete according to various historical run timing scenarios from the BTF.

Timing	Midpoint	7/23 Cumulative %
Earliest	7/29	12%
Early 10%	8/4	8%
Early 25%	8/6	5%
Median	8/8	2%
Late 25%	8/11	1%
Late 10%	8/13	<1%
Latest	8/15	<1%

[Return to Table of Contents](#)

Informational Packet

July 25, 2018 ADF&G Subsistence Division Inseason Salmon Harvest Survey Project Update

Department of Fish and Game Division of Subsistence staff are working with local fishers in several communities in the lower and middle Kuskokwim River to learn more about subsistence salmon harvests, and to share that information with the Working Group and fishery managers.

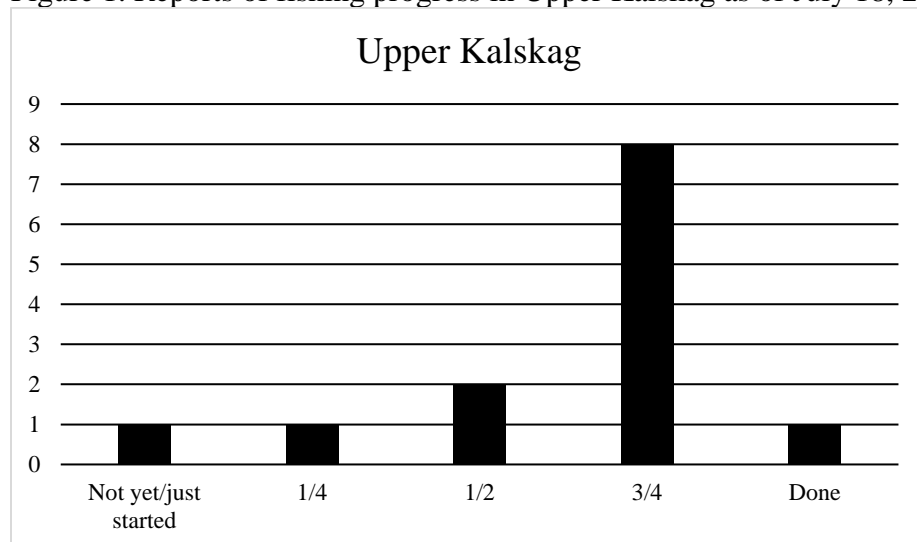
Middle Kuskokwim

Subsistence Division is collaborating with Native Village of Napaimute in middle Kuskokwim River villages. In the past week Subsistence Division and NVN staff continued household surveys in Upper Kalskag and started working in Crooked Creek and Sleetmute. Surveys ask people about how far along they are in fishing and whether they will be able to meet their salmon fishing goals for the season. Surveys are complete in Lower Kalskag and Aniak, and nearing completion in Crooked Creek and Sleetmute. Chuathbaluk was unavailable for survey work due to a conflict with a community meeting. Staff will continue in Upper Kalskag later this week and plan to start surveys in Red Devil, Stony River, and Chuathbaluk later this week. The most current information from surveys is summarized below.

Table 1. Summary information from surveys completed in Upper Kalskag, Crooked Creek, and Sleetmute.

	Upper Kalskag	Crooked Creek	Sleetmute
Number of households surveyed	27	17	18
Percentage of total households	45%	68%	72%
HHs that did fish	17	10	8
Number that did not fish	10	7	10
Number HHs that have met their needs so far	13	7	3
Number HHs that have not met their needs yet	10	2	2
Average total catch goal	40	132	30
Minimum total goal	148	60	78
Maximum total goal	500	200	175

Figure 1. Reports of fishing progress in Upper Kalskag as of July 18, 2018.



Informational Packet

July 25, 2018 ADF&G Subsistence Division Inseason Salmon Harvest Survey Project Update (continued)

Figure 2. Reports of fishing progress in Crooked Creek as of July 21, 2018.

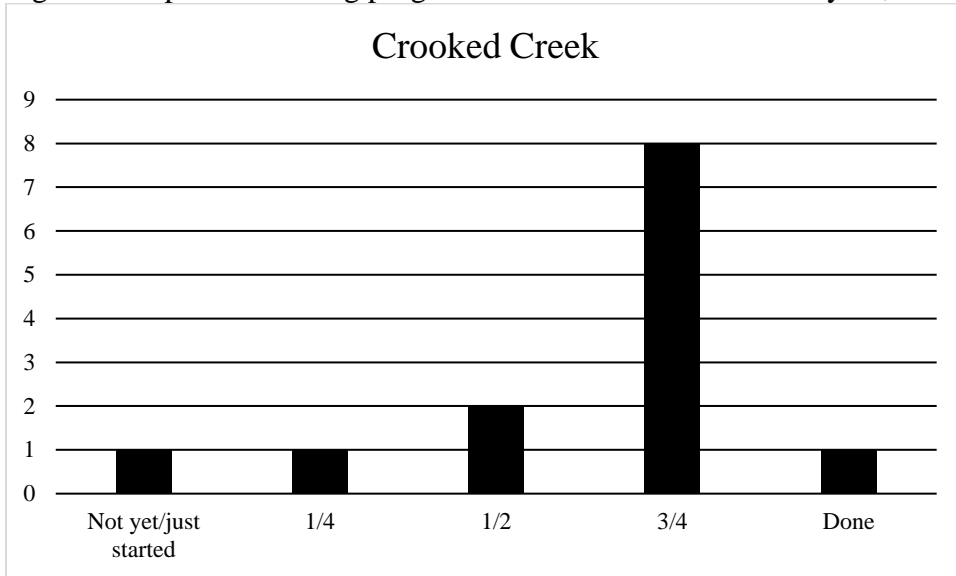
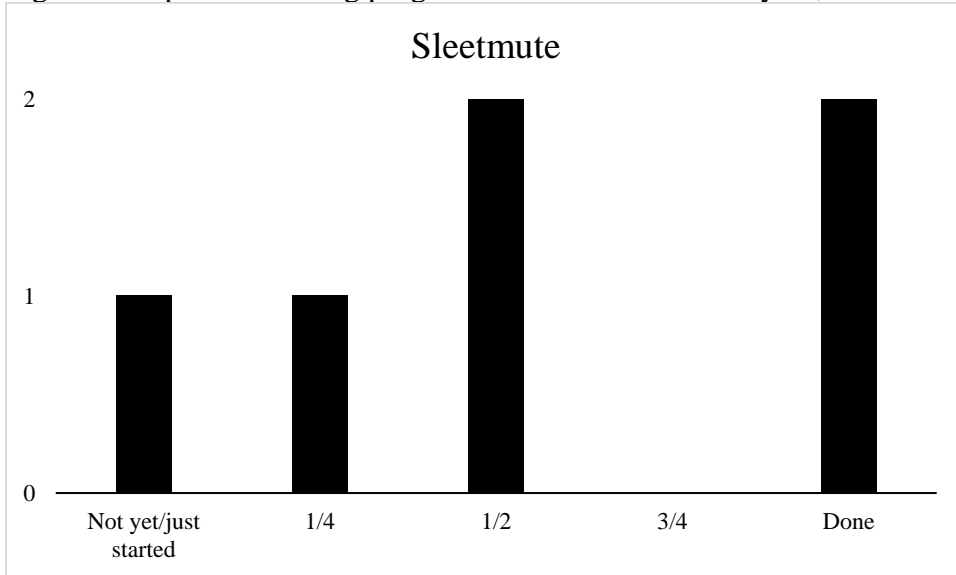


Figure 3. Reports of fishing progress in Sleetmute as of July 24, 2018.



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>

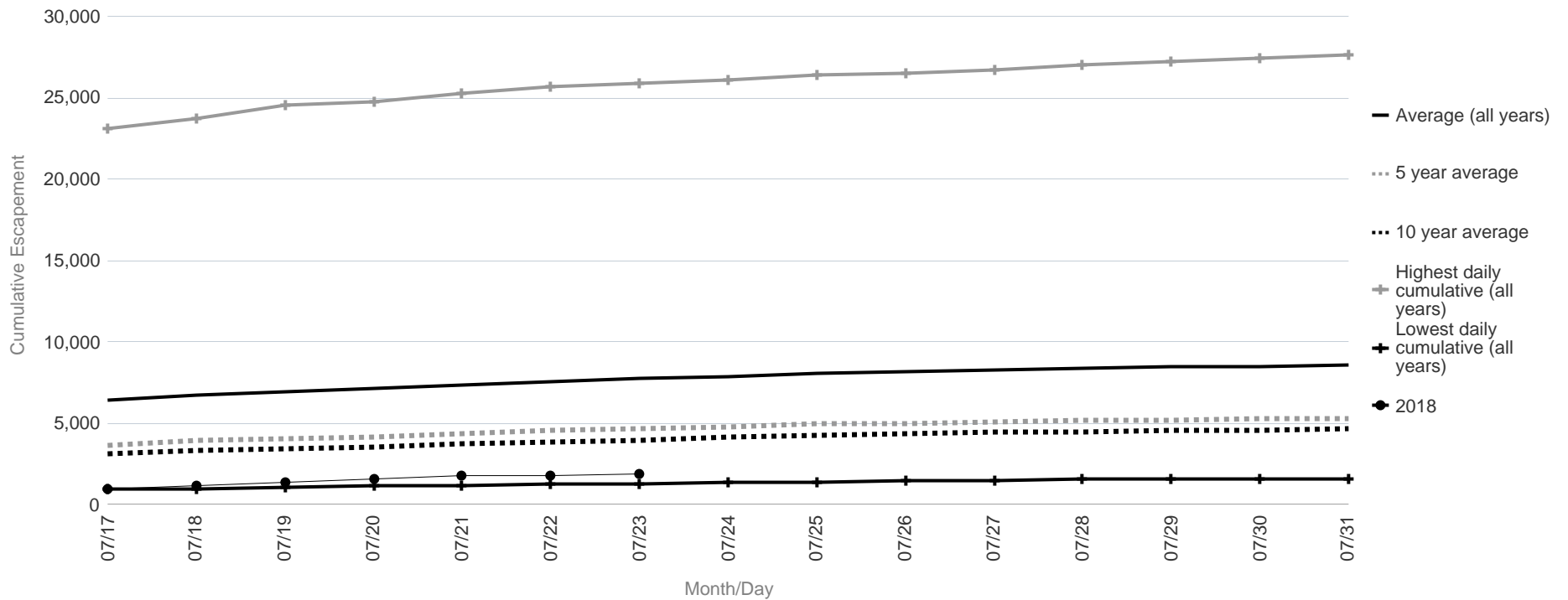
Kwethluk River Salmon Monitoring Project Cumulative Daily Passage of Chinook Salmon

Escapement Goal Range: 4,100 to 7,500

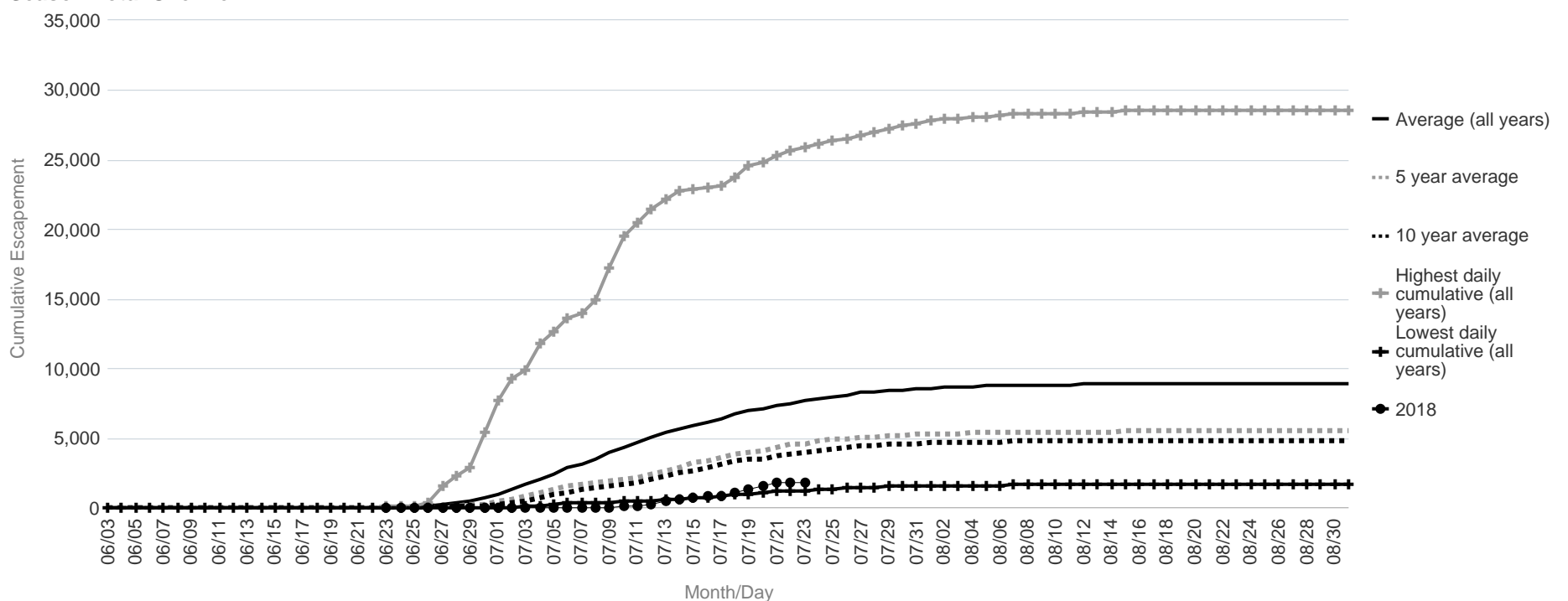
Date	Lowest daily cumulative (all years)	Average (all years)	5 year average	10 year average	Highest daily cumulative (all years)	2018
07/17	897	6,378	3,612	3,125	23,134	906
07/18	970	6,703	3,924	3,340	23,793	1,140
07/19	1,021	6,956	4,047	3,469	24,599	1,384
07/20	1,107	7,173	4,152	3,571	24,795	1,617
07/21	1,166	7,363	4,354	3,700	25,318	1,793
07/22	1,207	7,536	4,547	3,864	25,689	1,823
07/23	1,249	7,711	4,644	3,987	25,947	1,830
07/24	1,308	7,859	4,805	4,123	26,139	
07/25	1,354	8,020	4,923	4,236	26,387	
07/26	1,428	8,143	4,991	4,320	26,526	
07/27	1,472	8,271	5,090	4,427	26,707	
07/28	1,522	8,357	5,136	4,477	27,026	
07/29	1,552	8,441	5,191	4,546	27,263	
07/30	1,572	8,497	5,231	4,590	27,431	
07/31	1,578	8,564	5,266	4,622	27,623	

	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

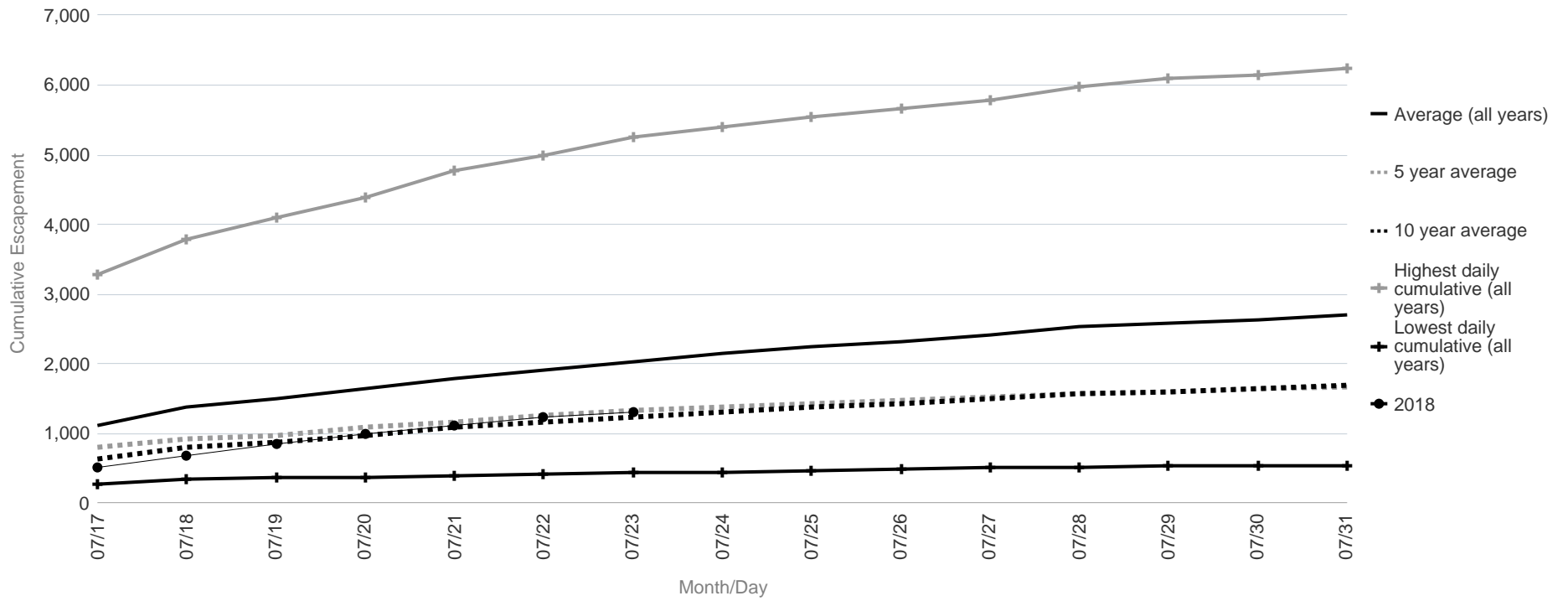


Salmon River (Aniak) Salmon Monitoring Project Passage of Chinook Salmon

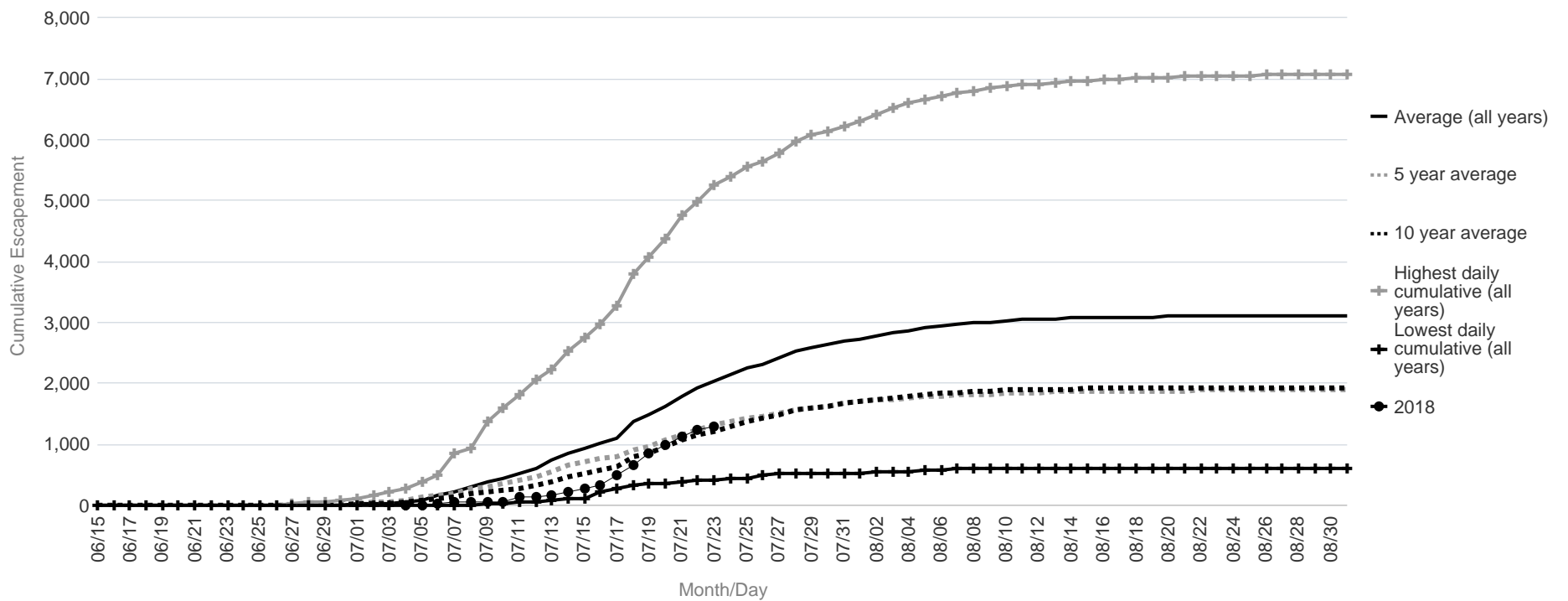
Date	Lowest daily cumulative (all years)	Average (all years)	5 year average	10 year average	Highest daily cumulative (all years)	2018
07/17	269	1,108	801	625	3,279	513
07/18	344	1,377	913	810	3,794	670
07/19	354	1,485	977	867	4,089	854
07/20	369	1,634	1,076	962	4,378	987
07/21	390	1,790	1,159	1,079	4,769	1,122
07/22	405	1,918	1,250	1,156	4,987	1,234
07/23	426	2,034	1,320	1,224	5,260	1,311
07/24	448	2,142	1,386	1,312	5,396	
07/25	451	2,251	1,431	1,381	5,551	
07/26	497	2,324	1,477	1,434	5,655	
07/27	514	2,416	1,520	1,486	5,773	
07/28	518	2,530	1,566	1,563	5,966	
07/29	525	2,589	1,598	1,604	6,090	
07/30	531	2,638	1,637	1,639	6,154	
07/31	536	2,695	1,671	1,680	6,236	

	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



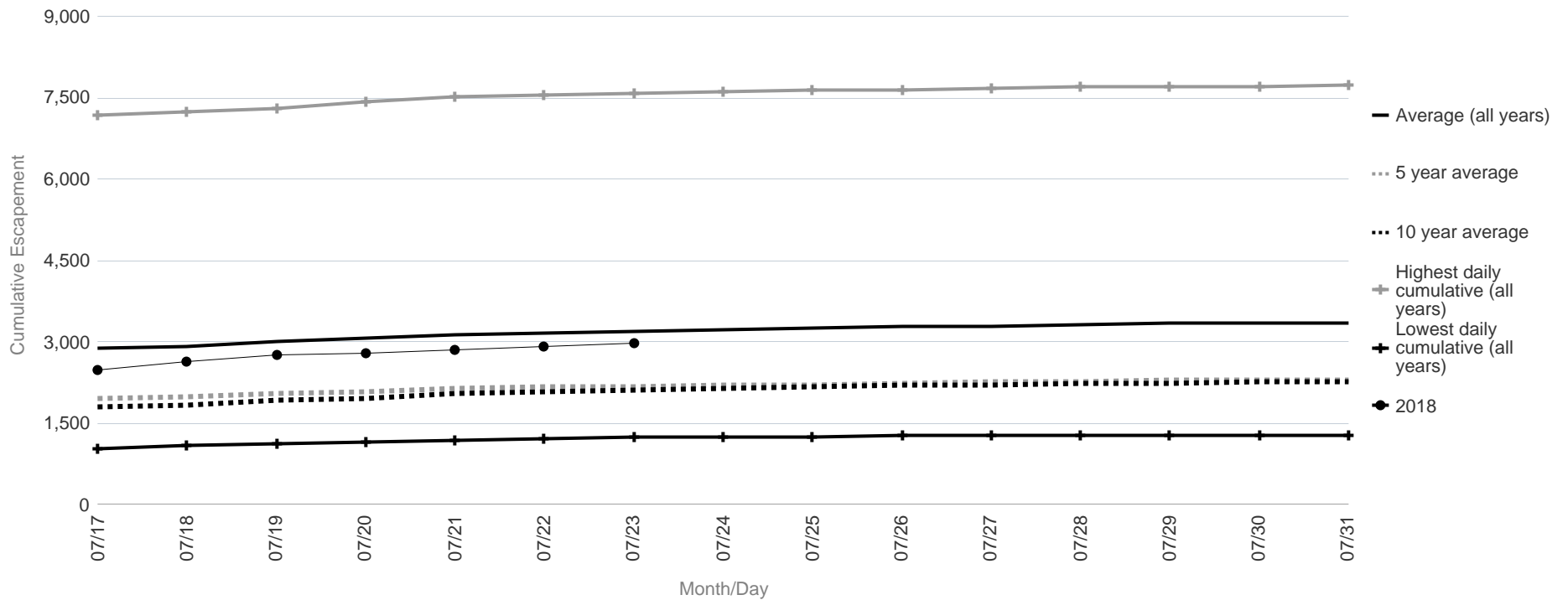
George River Salmon Monitoring Project Cumulative Daily Passage of Chinook Salmon

Escapement Goal Range: 1,800 to 3,300

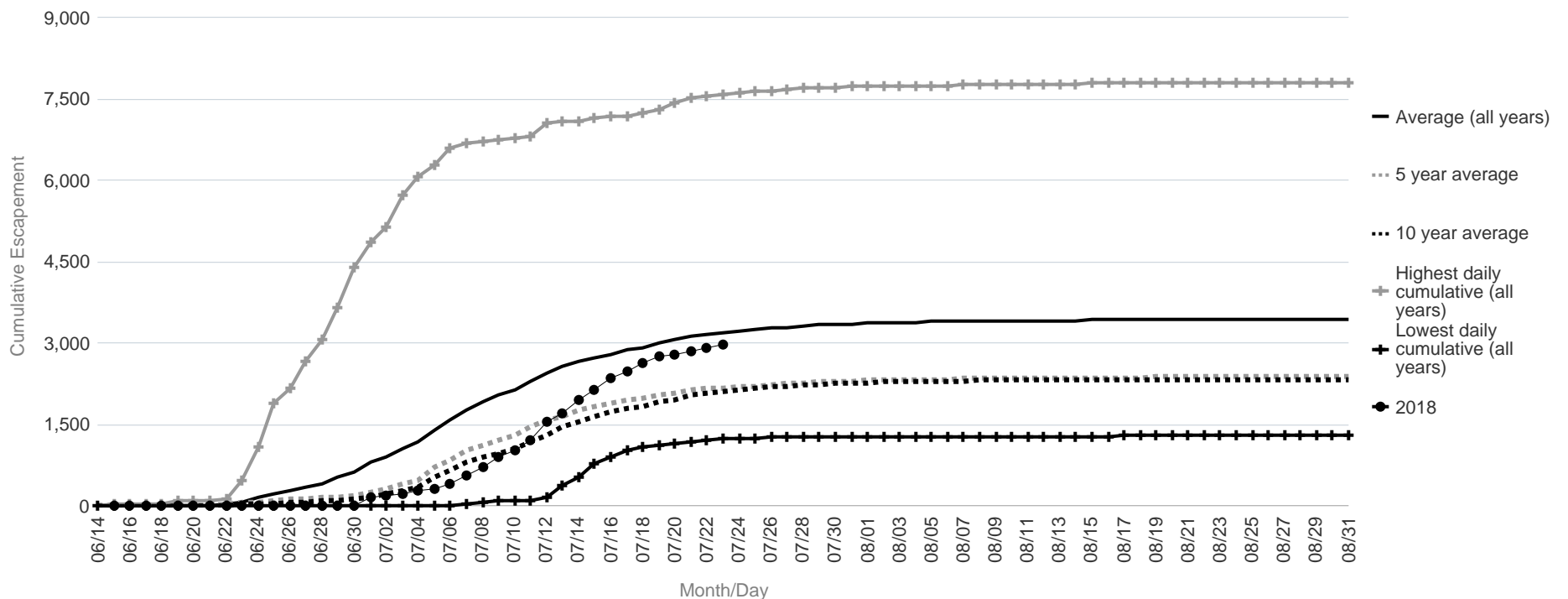
Date	Lowest daily cumulative (all years)	Average (all years)	5 year average	10 year average	Highest daily cumulative (all years)	2018
07/17	1,042	2,873	1,950	1,797	7,196	2,484
07/18	1,090	2,927	1,988	1,841	7,238	2,642
07/19	1,126	3,006	2,053	1,915	7,325	2,749
07/20	1,152	3,063	2,089	1,969	7,436	2,795
07/21	1,193	3,125	2,128	2,049	7,519	2,867
07/22	1,214	3,159	2,157	2,084	7,568	2,908
07/23	1,230	3,202	2,178	2,117	7,600	2,964
07/24	1,240	3,229	2,200	2,144	7,607	
07/25	1,251	3,258	2,216	2,172	7,648	
07/26	1,260	3,280	2,230	2,194	7,666	
07/27	1,264	3,301	2,252	2,216	7,675	
07/28	1,272	3,321	2,270	2,234	7,700	
07/29	1,273	3,335	2,284	2,249	7,707	
07/30	1,275	3,345	2,295	2,258	7,720	
07/31	1,276	3,357	2,305	2,269	7,733	

	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



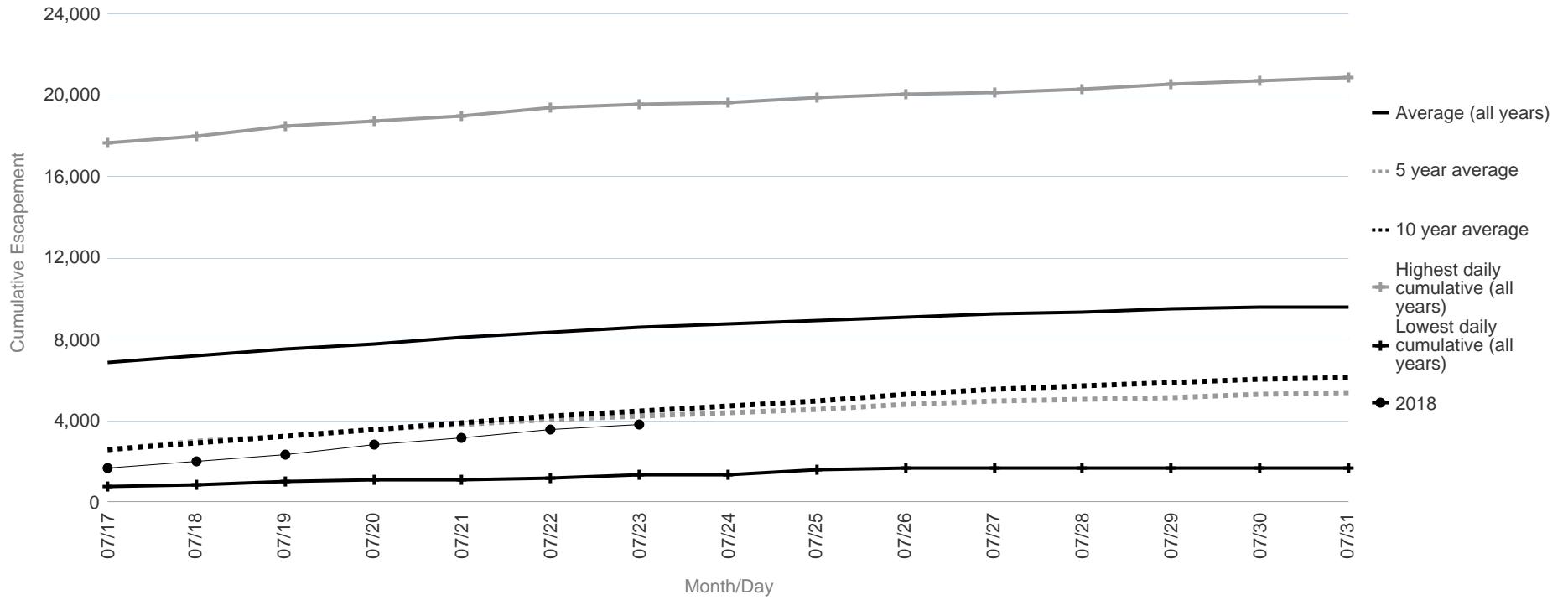
Kogrukluk River Salmon Monitoring Project Cumulative Daily Passage of Chinook Salmon

Escapement Goal Range: 4,800 to 8,800

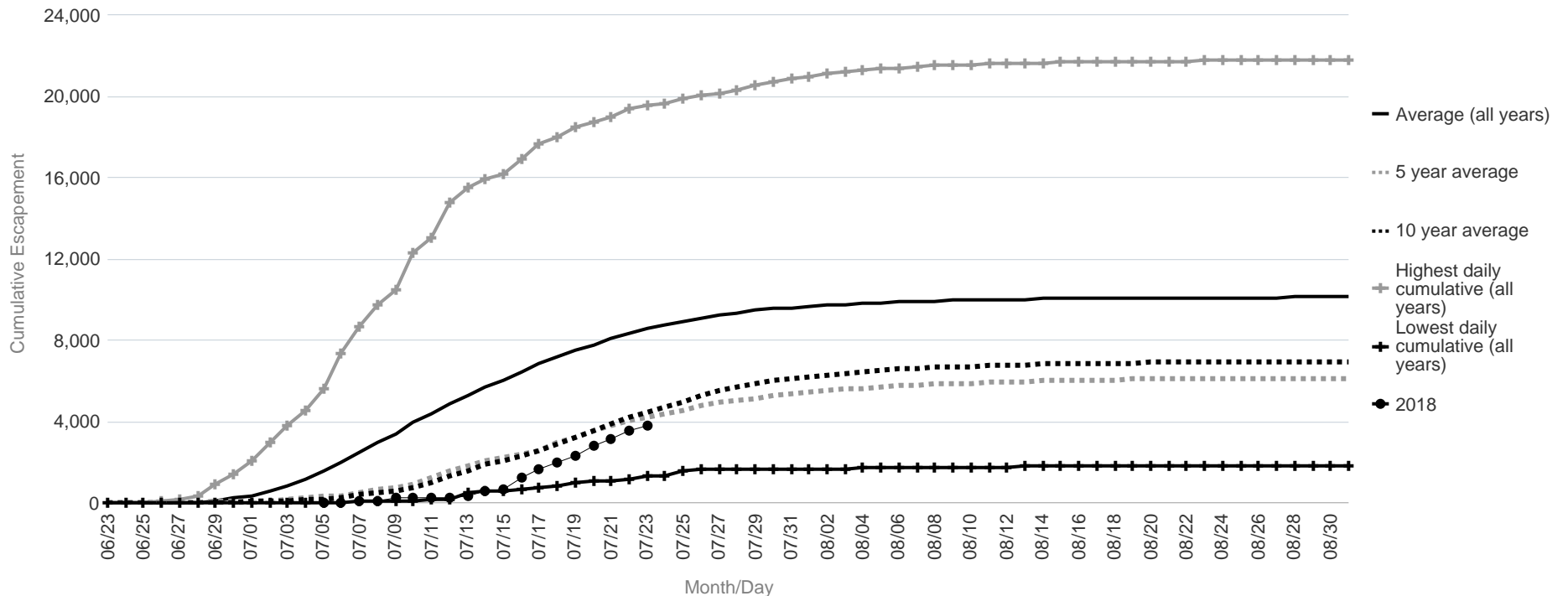
Date	Lowest daily cumulative (all years)	Average (all years)	5 year average	10 year average	Highest daily cumulative (all years)	2018
07/17	739	6,843	2,597	2,574	17,646	1,642
07/18	862	7,191	2,991	2,932	18,019	2,025
07/19	993	7,501	3,249	3,245	18,494	2,360
07/20	1,075	7,795	3,526	3,566	18,768	2,844
07/21	1,113	8,117	3,815	3,921	19,034	3,137
07/22	1,208	8,362	4,018	4,221	19,396	3,578
07/23	1,321	8,574	4,221	4,504	19,547	3,795
07/24	1,361	8,759	4,405	4,745	19,681	
07/25	1,559	8,947	4,576	5,003	19,901	
07/26	1,629	9,103	4,761	5,296	20,060	
07/27	1,648	9,240	4,930	5,524	20,195	
07/28	1,654	9,360	5,063	5,708	20,362	
07/29	1,655	9,467	5,165	5,880	20,597	
07/30	1,666	9,551	5,278	6,007	20,764	
07/31	1,678	9,622	5,382	6,124	20,896	

	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

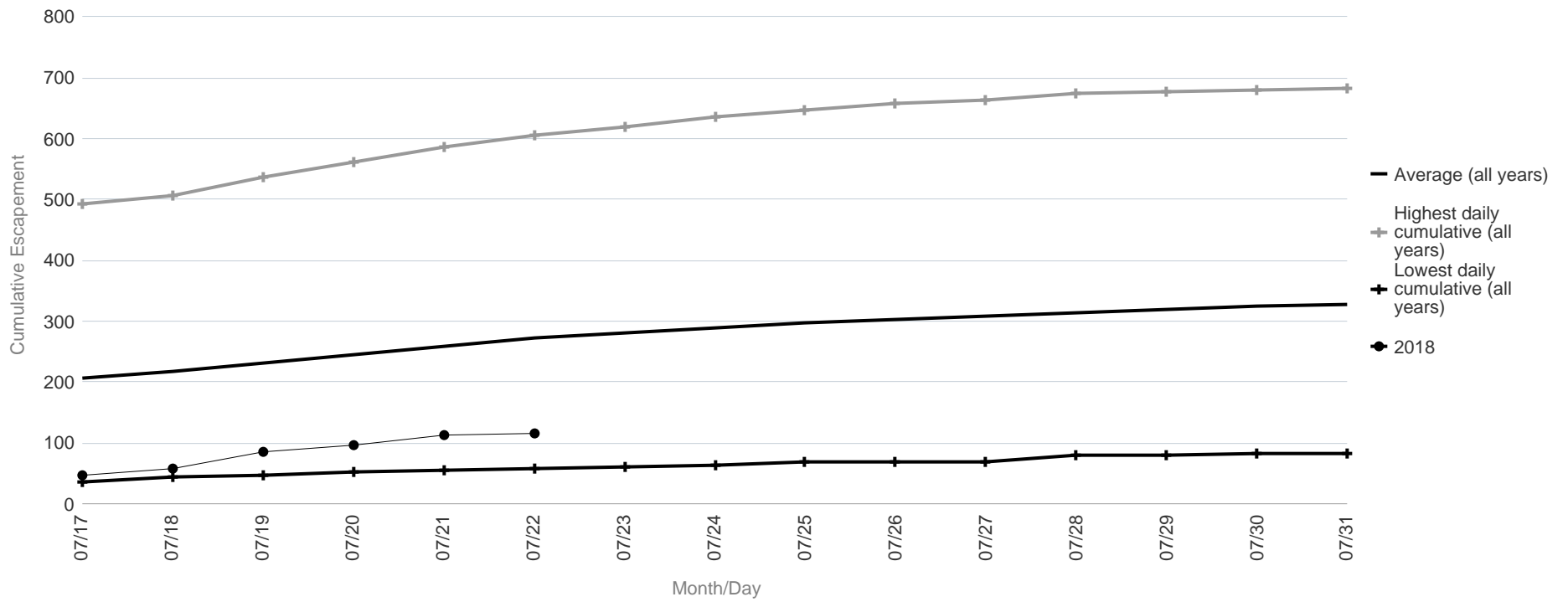


Takotna River Salmon Monitoring Project Passage of Chinook Salmon

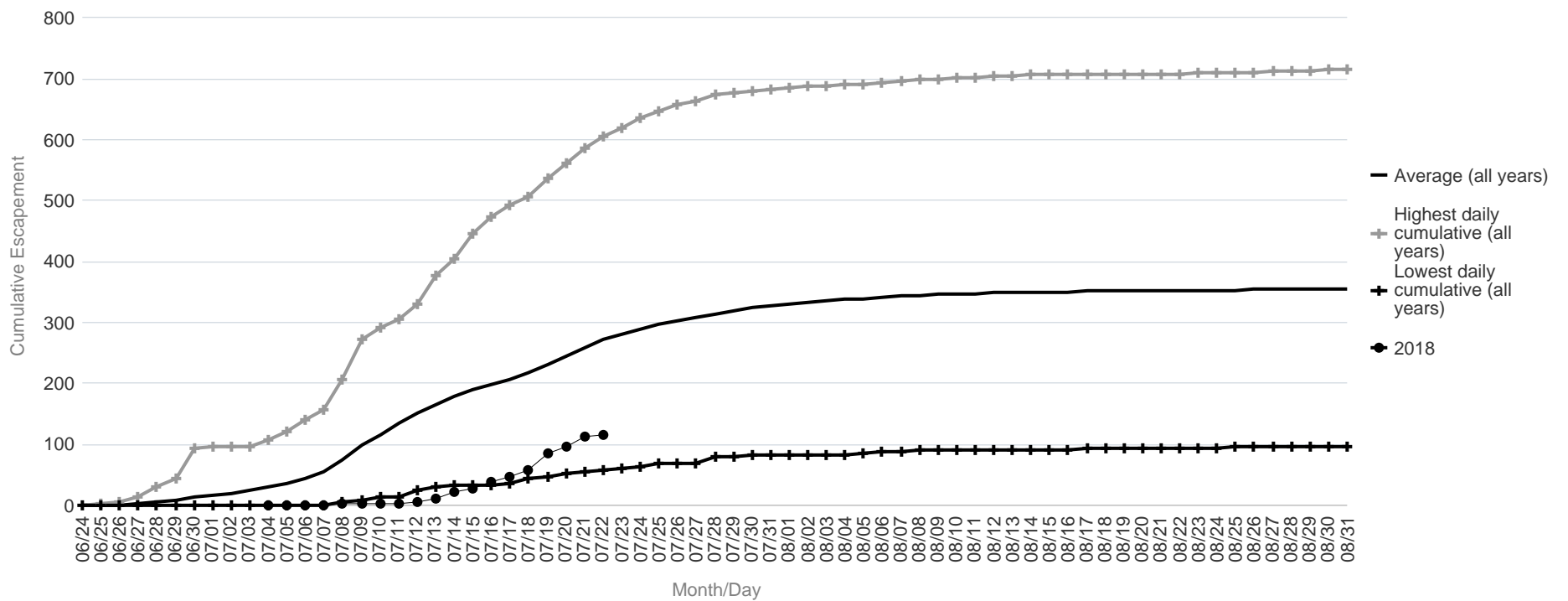
Date	Lowest daily cumulative (all years)	Average (all years)	Highest daily cumulative (all years)	2018
07/17	37	207	492	46
07/18	44	218	506	57
07/19	46	231	537	85
07/20	52	244	563	97
07/21	55	258	586	112
07/22	57	272	607	117
07/23	60	280	620	
07/24	65	288	637	
07/25	68	297	647	
07/26	69	303	658	
07/27	70	308	664	
07/28	79	314	675	
07/29	79	320	678	
07/30	82	325	680	
07/31	82	328	684	

	Lowest Count	Average Count	Highest Count
Season Total	97	357	718

Focused Two-Week Data View



Season Total Overview

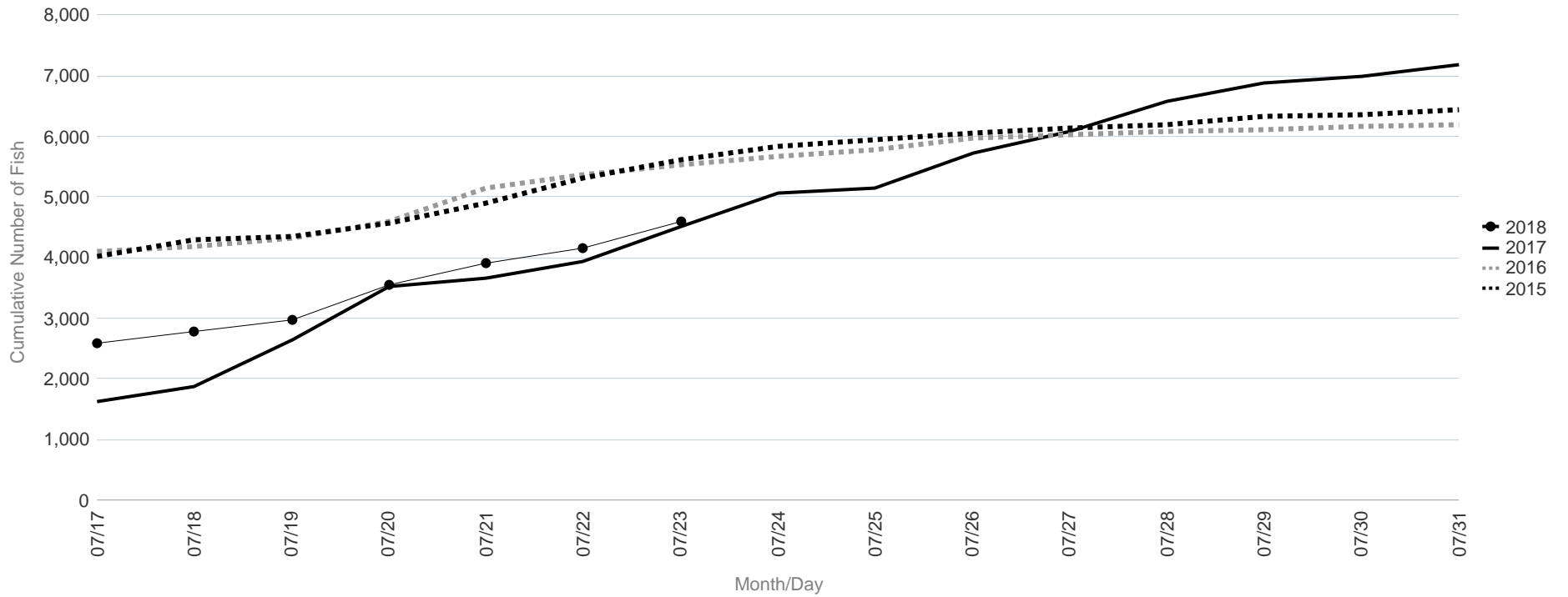


Salmon River (Pitka Fork) Salmon Monitoring Project Passage of Chinook Salmon

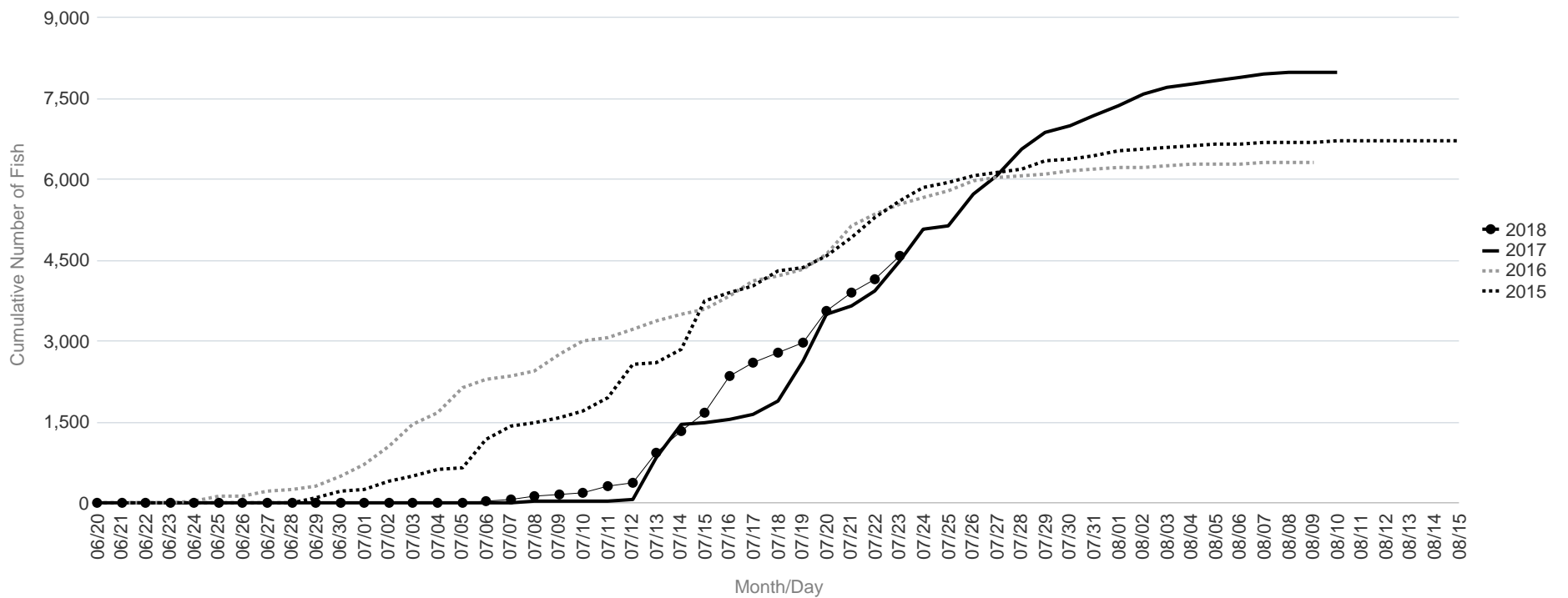
Cumulative Daily Passage				
Date	2015	2016	2017	2018
07/17	4,022	4,113	1,637	2,602
07/18	4,293	4,201	1,881	2,795
07/19	4,361	4,331	2,646	2,990
07/20	4,582	4,603	3,517	3,550
07/21	4,913	5,156	3,668	3,901
07/22	5,311	5,372	3,941	4,152
07/23	5,606	5,532	4,508	4,602
07/24	5,849	5,671	5,080	
07/25	5,961	5,795	5,146	
07/26	6,061	5,967	5,741	
07/27	6,143	6,032	6,082	
07/28	6,198	6,076	6,577	
07/29	6,346	6,118	6,891	
07/30	6,372	6,163	7,003	
07/31	6,439	6,199	7,181	

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

Focused Two-Week Data View



Season Total Overview

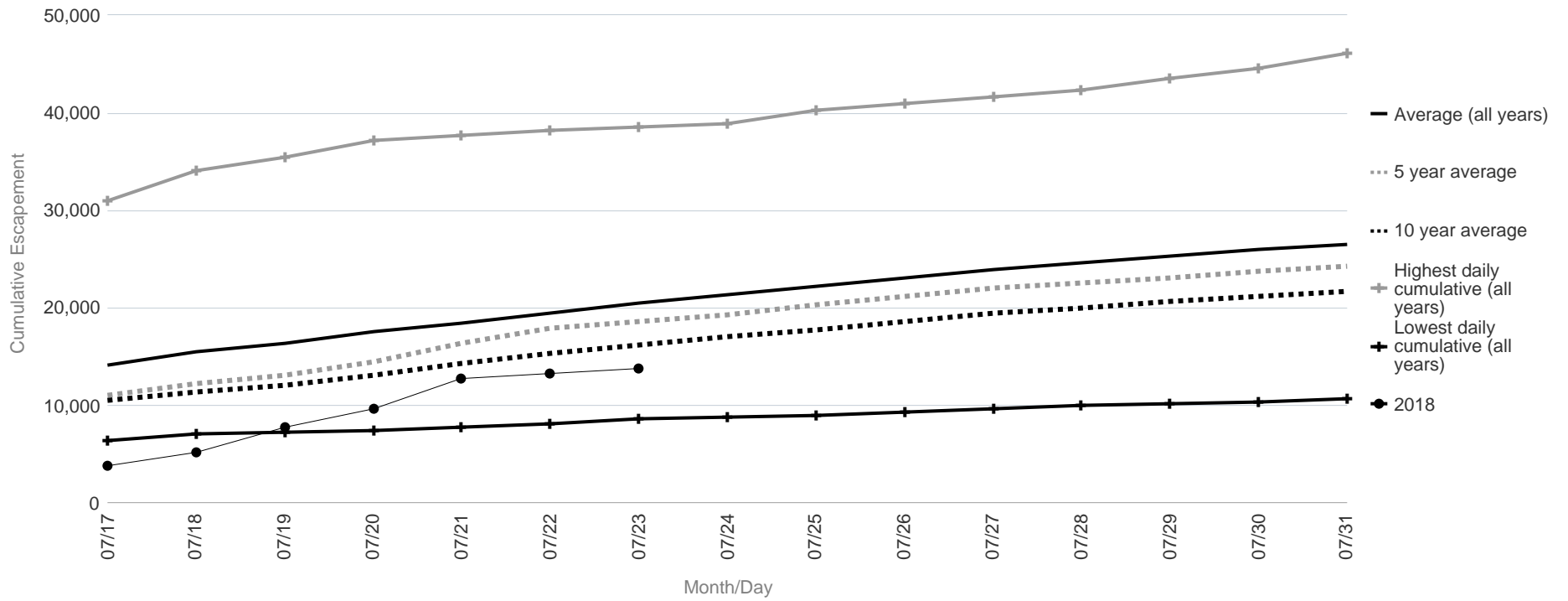


Kwethluk River Salmon Monitoring Project Cumulative Daily Passage of Chum Salmon

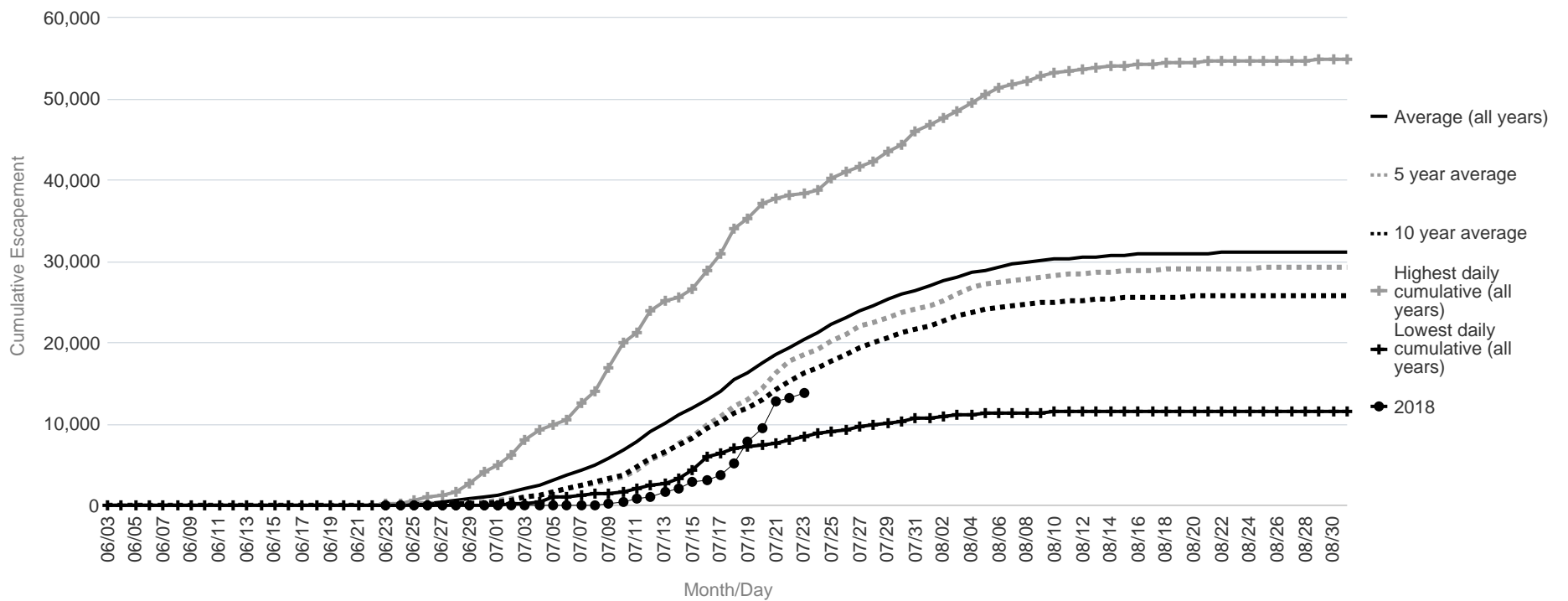
Date	Lowest daily cumulative (all years)	Average (all years)	5 year average	10 year average	Highest daily cumulative (all years)	2018
07/17	6,461	14,120	11,015	10,444	31,045	3,748
07/18	7,027	15,438	12,252	11,326	34,001	5,258
07/19	7,245	16,393	13,136	12,102	35,418	7,807
07/20	7,418	17,490	14,469	13,036	37,219	9,616
07/21	7,701	18,512	16,351	14,225	37,706	12,822
07/22	8,122	19,486	17,861	15,381	38,285	13,314
07/23	8,590	20,470	18,635	16,249	38,513	13,818
07/24	8,807	21,299	19,257	16,988	38,913	
07/25	9,015	22,247	20,249	17,800	40,246	
07/26	9,346	23,107	21,109	18,545	41,025	
07/27	9,711	23,955	22,026	19,376	41,681	
07/28	9,928	24,638	22,569	20,034	42,419	
07/29	10,129	25,357	23,113	20,675	43,514	
07/30	10,426	25,956	23,771	21,262	44,489	
07/31	10,674	26,483	24,218	21,657	46,067	

	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

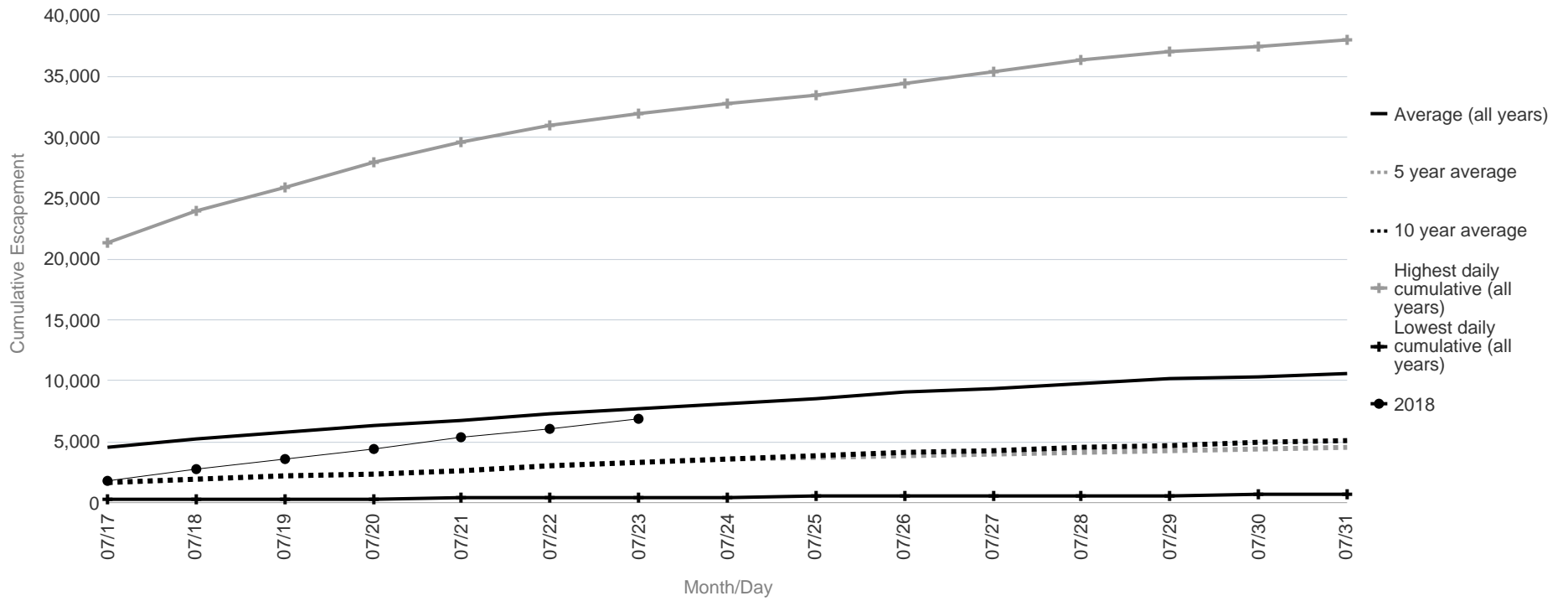


Salmon River (Aniak) Salmon Monitoring Project Passage of Chum Salmon

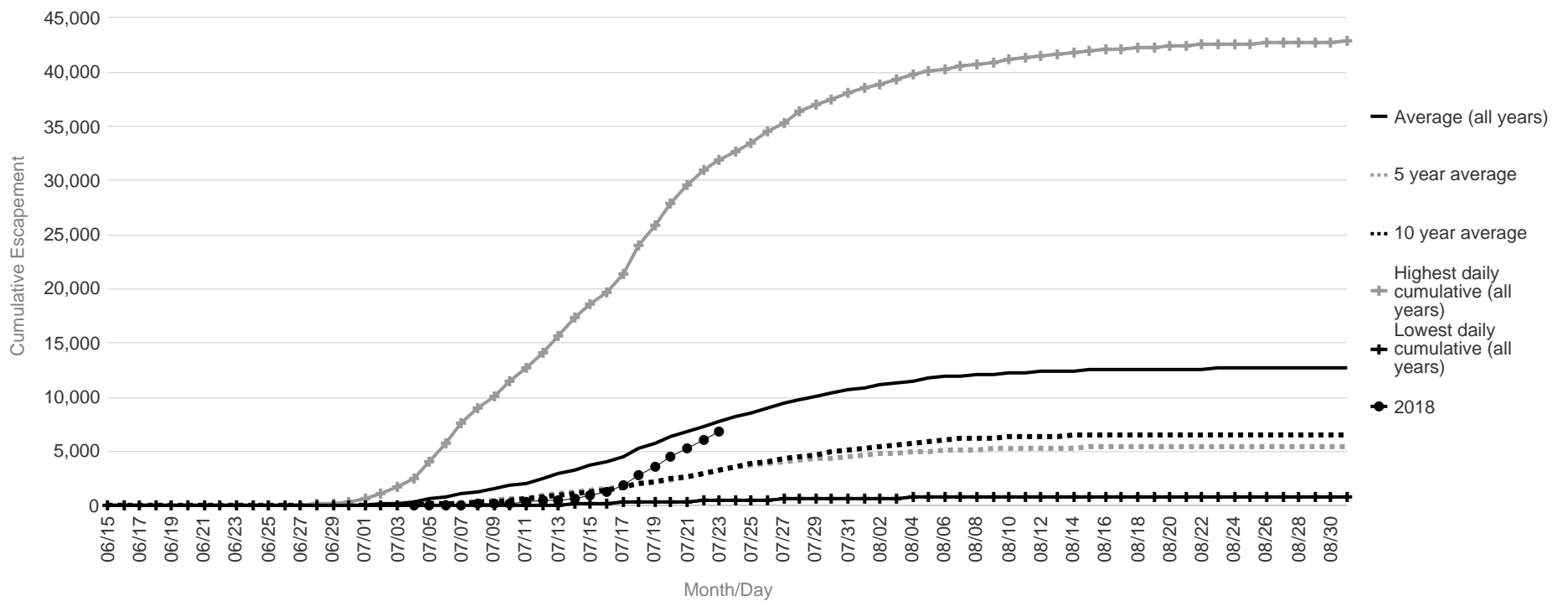
Date	Lowest daily cumulative (all years)	Average (all years)	5 year average	10 year average	Highest daily cumulative (all years)	2018
07/17	259	4,563	1,734	1,707	21,408	1,827
07/18	291	5,239	1,978	1,967	24,005	2,753
07/19	324	5,740	2,186	2,163	25,897	3,582
07/20	358	6,306	2,418	2,430	27,915	4,451
07/21	379	6,813	2,654	2,705	29,645	5,334
07/22	421	7,275	3,003	3,017	31,006	6,105
07/23	454	7,724	3,275	3,286	31,988	6,834
07/24	500	8,198	3,548	3,616	32,735	
07/25	536	8,590	3,713	3,880	33,441	
07/26	556	9,060	3,874	4,111	34,472	
07/27	586	9,415	4,005	4,302	35,394	
07/28	607	9,818	4,169	4,515	36,375	
07/29	631	10,139	4,304	4,745	37,044	
07/30	653	10,394	4,429	4,937	37,452	
07/31	668	10,669	4,556	5,138	38,050	

	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

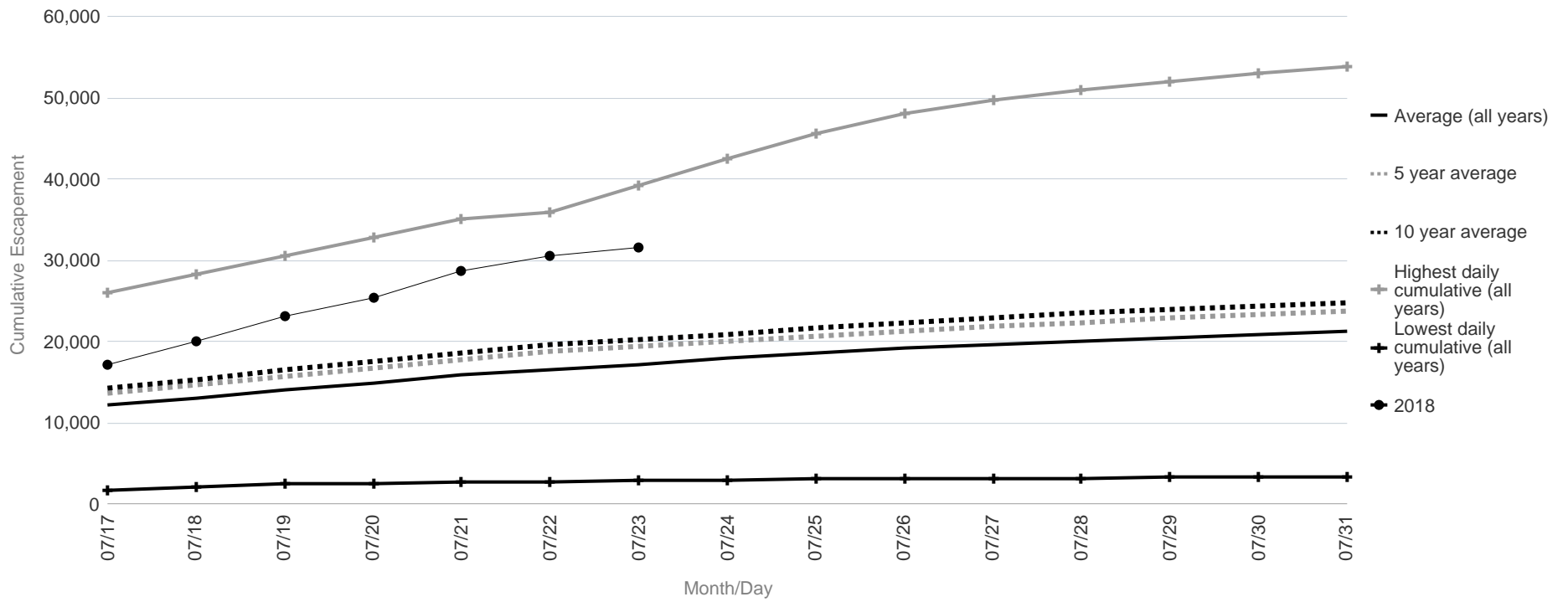


George River Salmon Monitoring Project Cumulative Daily Passage of Chum Salmon

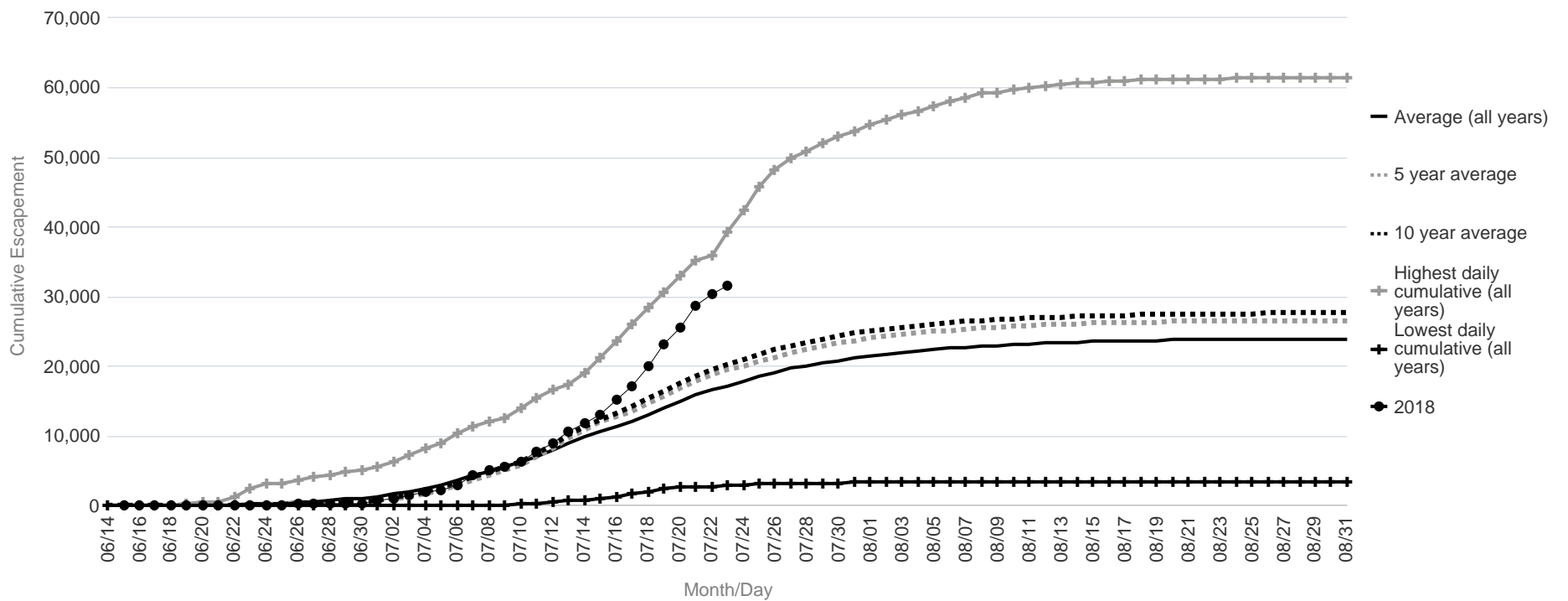
Date	Lowest daily cumulative (all years)	Average (all years)	5 year average	10 year average	Highest daily cumulative (all years)	2018
07/17	1,682	12,134	13,606	14,323	26,030	17,151
07/18	2,076	12,999	14,703	15,364	28,374	20,127
07/19	2,561	14,035	15,806	16,533	30,677	23,212
07/20	2,579	14,969	16,791	17,607	32,923	25,506
07/21	2,620	15,854	17,880	18,676	35,097	28,627
07/22	2,707	16,539	18,769	19,563	36,026	30,498
07/23	2,879	17,249	19,457	20,298	39,190	31,580
07/24	2,995	17,909	20,020	20,965	42,524	
07/25	3,071	18,574	20,646	21,693	45,702	
07/26	3,127	19,159	21,230	22,353	48,103	
07/27	3,174	19,669	21,865	22,975	49,825	
07/28	3,208	20,105	22,368	23,502	50,935	
07/29	3,236	20,505	22,870	23,972	52,111	
07/30	3,262	20,858	23,360	24,422	52,975	
07/31	3,325	21,190	23,744	24,795	53,824	

	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



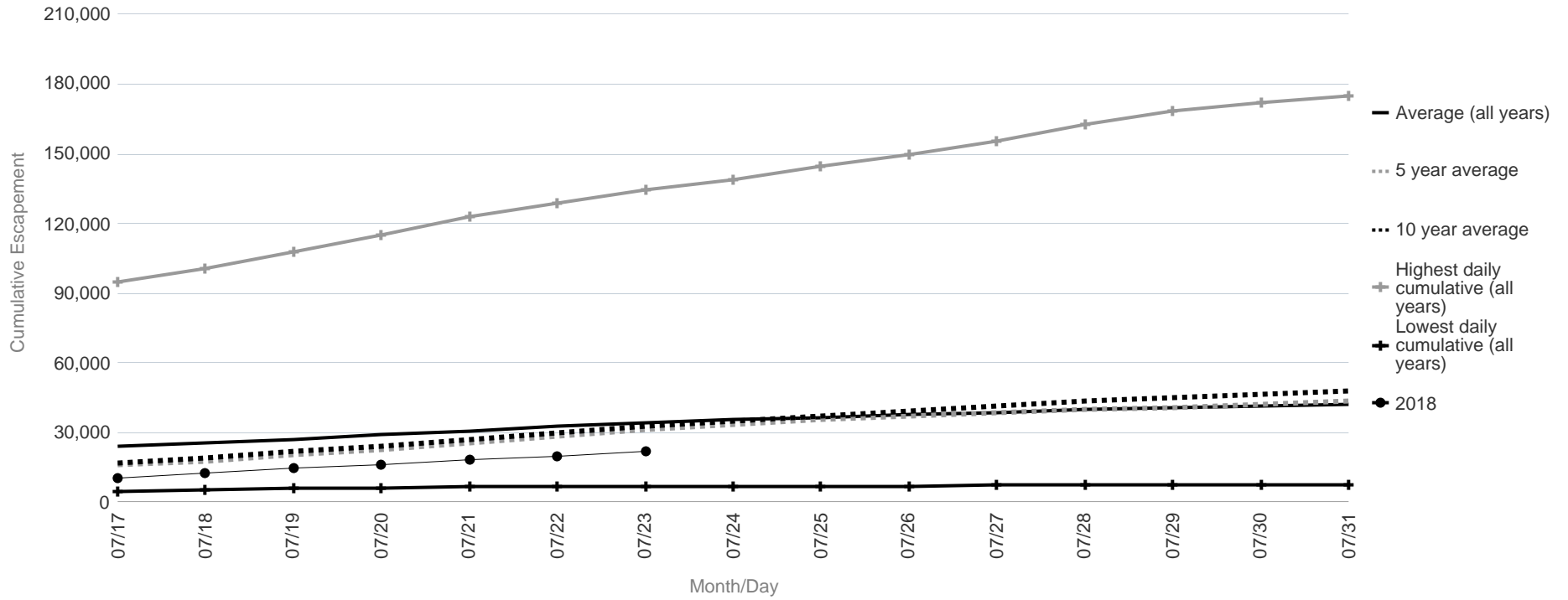
Kogrukluk River Salmon Monitoring Project Cumulative Daily Passage of Chum Salmon

Escapement Goal Range: 15,000 to 49,000

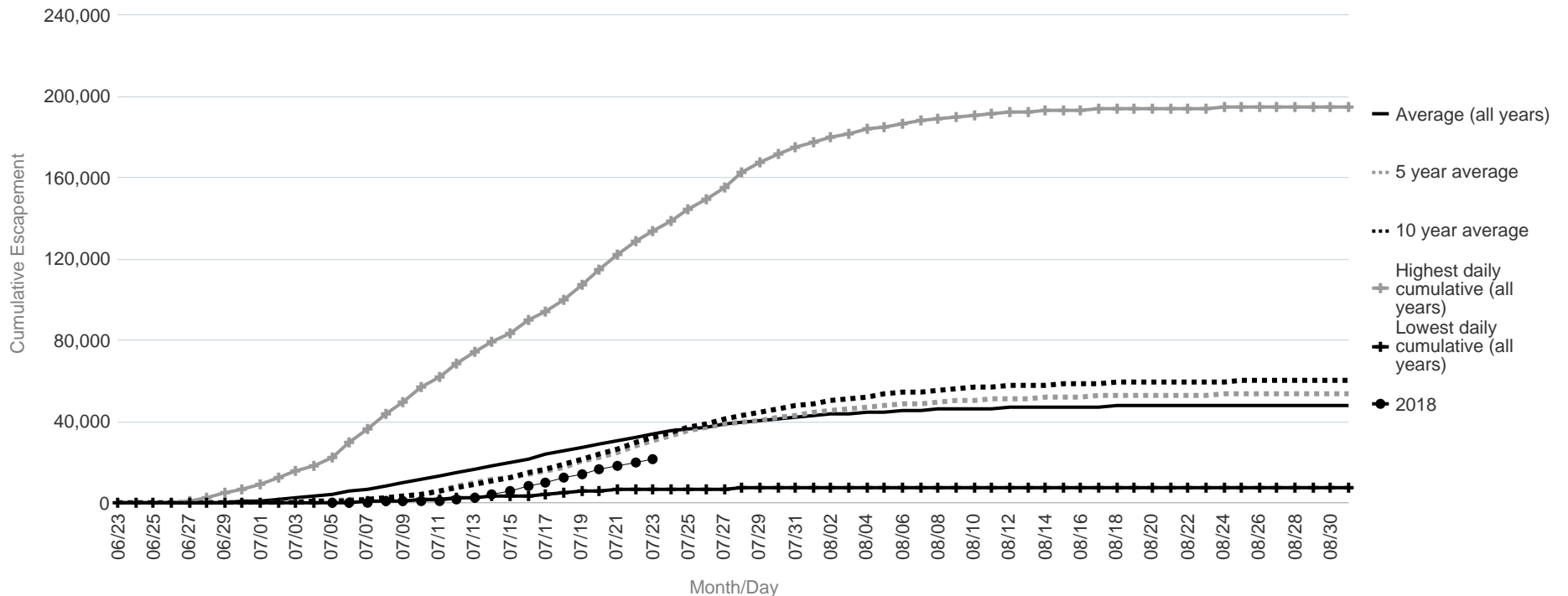
Date	Lowest daily cumulative (all years)	Average (all years)	5 year average	10 year average	Highest daily cumulative (all years)	2018
07/17	4,321	23,699	15,699	16,725	94,567	9,965
07/18	4,960	25,378	17,680	18,942	100,390	12,301
07/19	5,723	27,186	20,427	21,667	107,716	14,552
07/20	6,078	28,888	22,648	24,189	114,926	16,358
07/21	6,341	30,663	25,055	26,753	122,595	17,917
07/22	6,469	32,320	28,157	29,753	128,542	19,802
07/23	6,632	33,864	30,845	32,413	134,124	21,663
07/24	6,703	35,281	33,010	34,867	138,620	
07/25	6,758	36,552	35,266	37,234	144,412	
07/26	6,881	37,651	36,911	39,276	149,874	
07/27	6,981	38,715	38,541	41,237	155,537	
07/28	7,173	39,807	39,923	43,253	162,694	
07/29	7,296	40,703	40,911	44,833	168,130	
07/30	7,373	41,490	42,137	46,233	171,851	
07/31	7,409	42,209	43,283	47,635	175,051	

	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

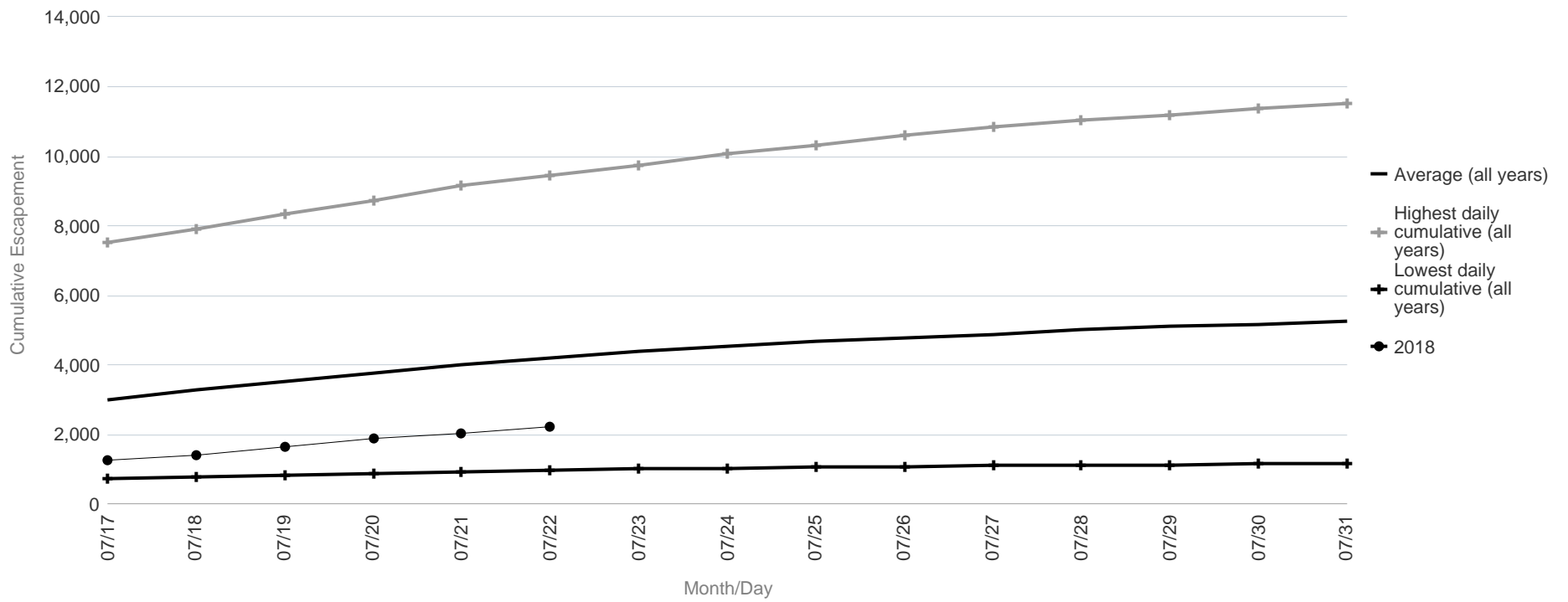


Takotna River Salmon Monitoring Project Passage of Chum Salmon

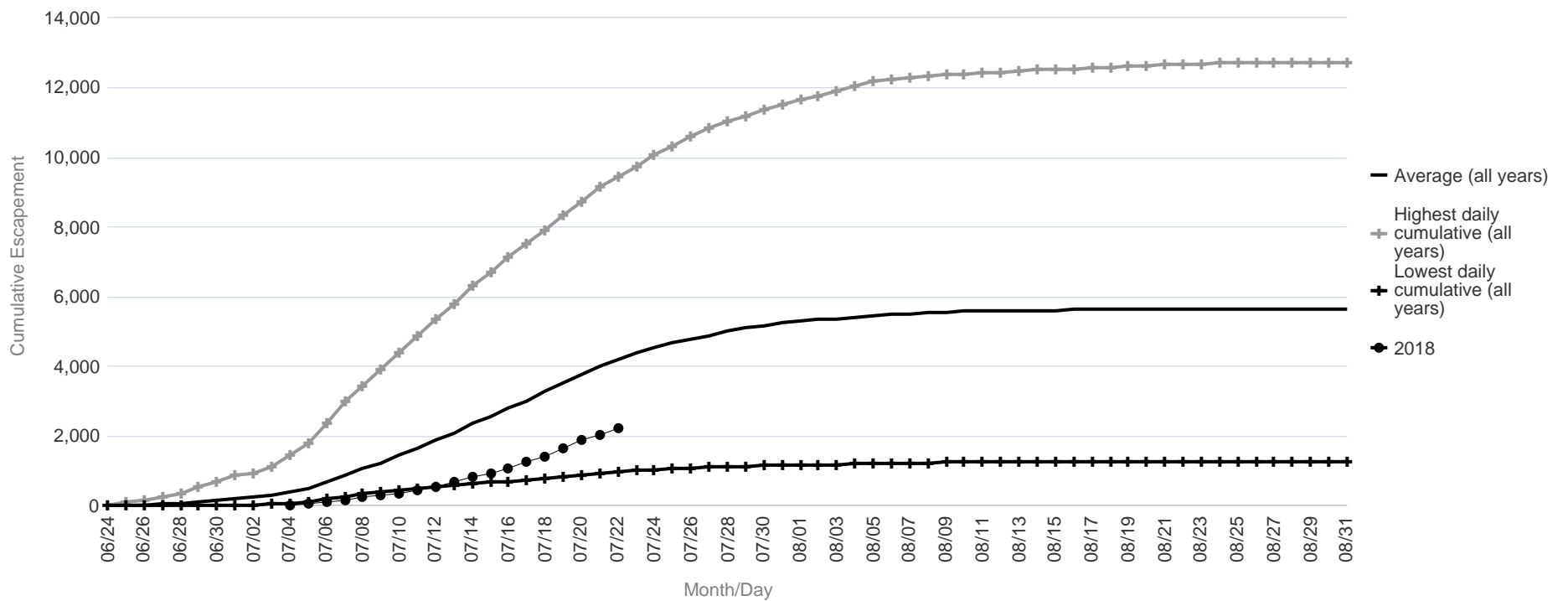
Date	Lowest daily cumulative (all years)	Average (all years)	Highest daily cumulative (all years)	2018
07/17	747	3,013	7,510	1,276
07/18	781	3,262	7,903	1,399
07/19	840	3,519	8,346	1,667
07/20	890	3,757	8,701	1,873
07/21	933	3,999	9,142	2,051
07/22	986	4,199	9,463	2,230
07/23	1,019	4,382	9,751	
07/24	1,042	4,535	10,069	
07/25	1,067	4,663	10,337	
07/26	1,087	4,787	10,591	
07/27	1,101	4,894	10,839	
07/28	1,112	5,006	11,055	
07/29	1,130	5,092	11,188	
07/30	1,142	5,165	11,351	
07/31	1,152	5,236	11,507	

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

Focused Two-Week Data View



Season Total Overview

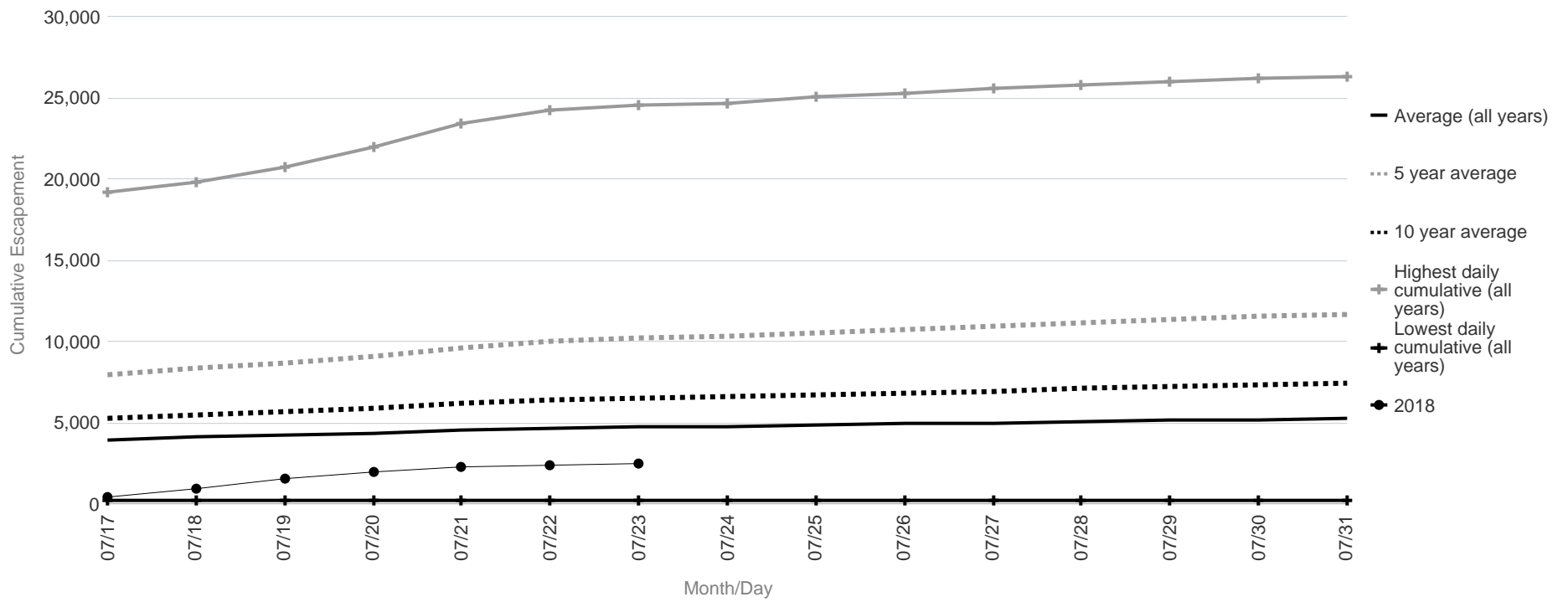


Kwethluk River Salmon Monitoring Project Cumulative Daily Passage of Sockeye Salmon

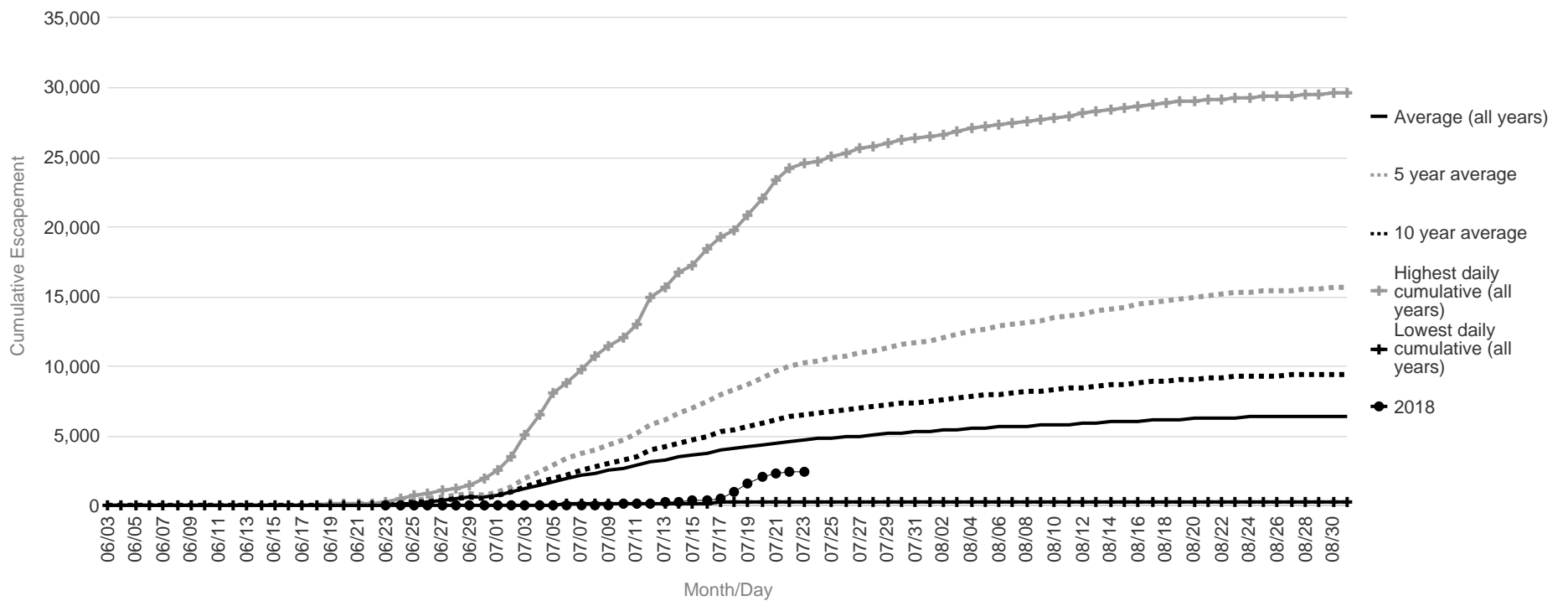
Date	Lowest daily cumulative (all years)	Average (all years)	5 year average	10 year average	Highest daily cumulative (all years)	2018
07/17	204	3,963	7,968	5,270	19,235	458
07/18	208	4,102	8,363	5,488	19,785	924
07/19	214	4,229	8,724	5,691	20,793	1,554
07/20	219	4,369	9,115	5,915	21,997	2,021
07/21	222	4,528	9,632	6,192	23,401	2,334
07/22	224	4,650	9,994	6,399	24,249	2,439
07/23	228	4,730	10,198	6,527	24,592	2,465
07/24	228	4,785	10,336	6,619	24,676	
07/25	228	4,874	10,586	6,763	25,060	
07/26	233	4,935	10,744	6,856	25,333	
07/27	233	5,011	10,946	6,980	25,604	
07/28	234	5,078	11,143	7,093	25,779	
07/29	236	5,143	11,326	7,205	25,982	
07/30	238	5,207	11,531	7,316	26,211	
07/31	240	5,258	11,682	7,397	26,339	

	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

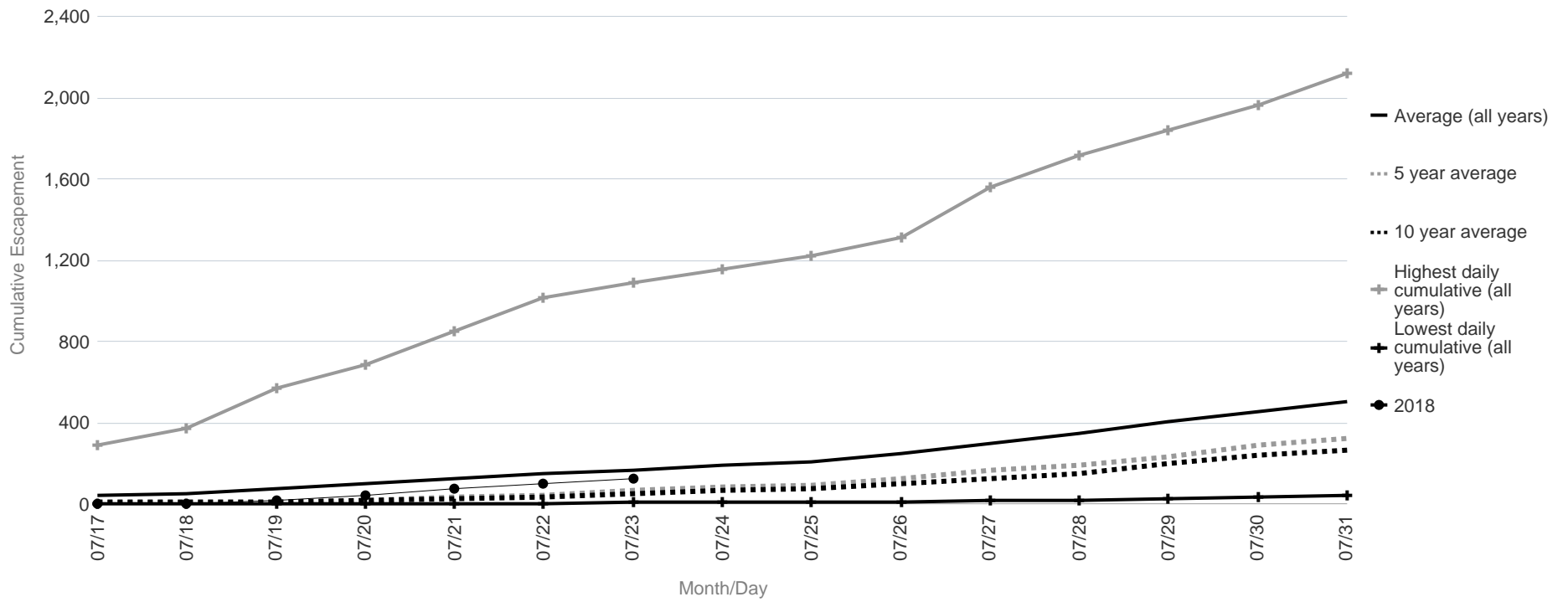


Salmon River (Aniak) Salmon Monitoring Project Passage of Sockeye Salmon

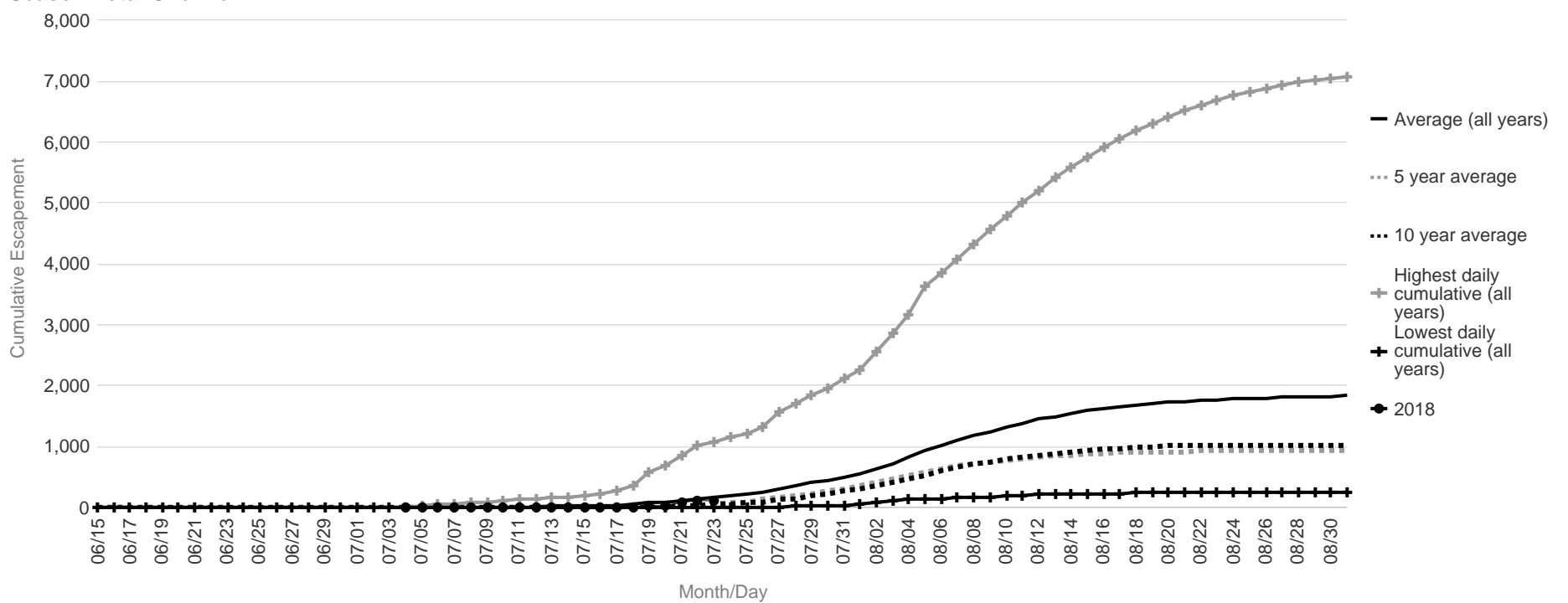
Date	Lowest daily cumulative (all years)	Average (all years)	5 year average	10 year average	Highest daily cumulative (all years)	2018
07/17	0	41	10	7	291	0
07/18	0	53	13	10	371	5
07/19	0	77	13	10	573	20
07/20	0	98	22	18	688	42
07/21	3	122	31	25	851	78
07/22	4	150	46	35	1,013	103
07/23	7	170	64	48	1,087	124
07/24	10	194	84	66	1,161	
07/25	11	211	95	77	1,224	
07/26	12	247	129	101	1,316	
07/27	18	302	164	129	1,560	
07/28	20	351	194	153	1,717	
07/29	29	406	234	198	1,839	
07/30	35	456	292	237	1,968	
07/31	45	508	321	269	2,121	

	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



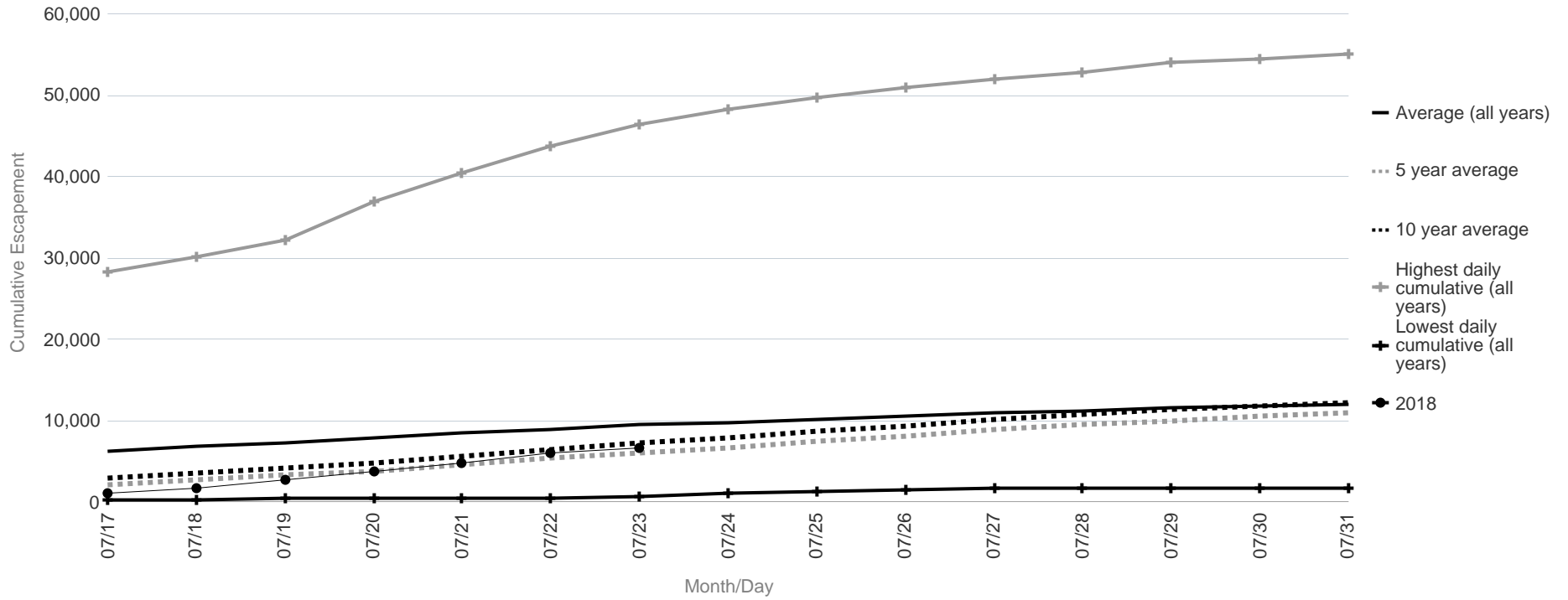
Kogrukluk River Salmon Monitoring Project Cumulative Daily Passage of Sockeye Salmon

Escapement Goal Range: 4,400 to 17,000

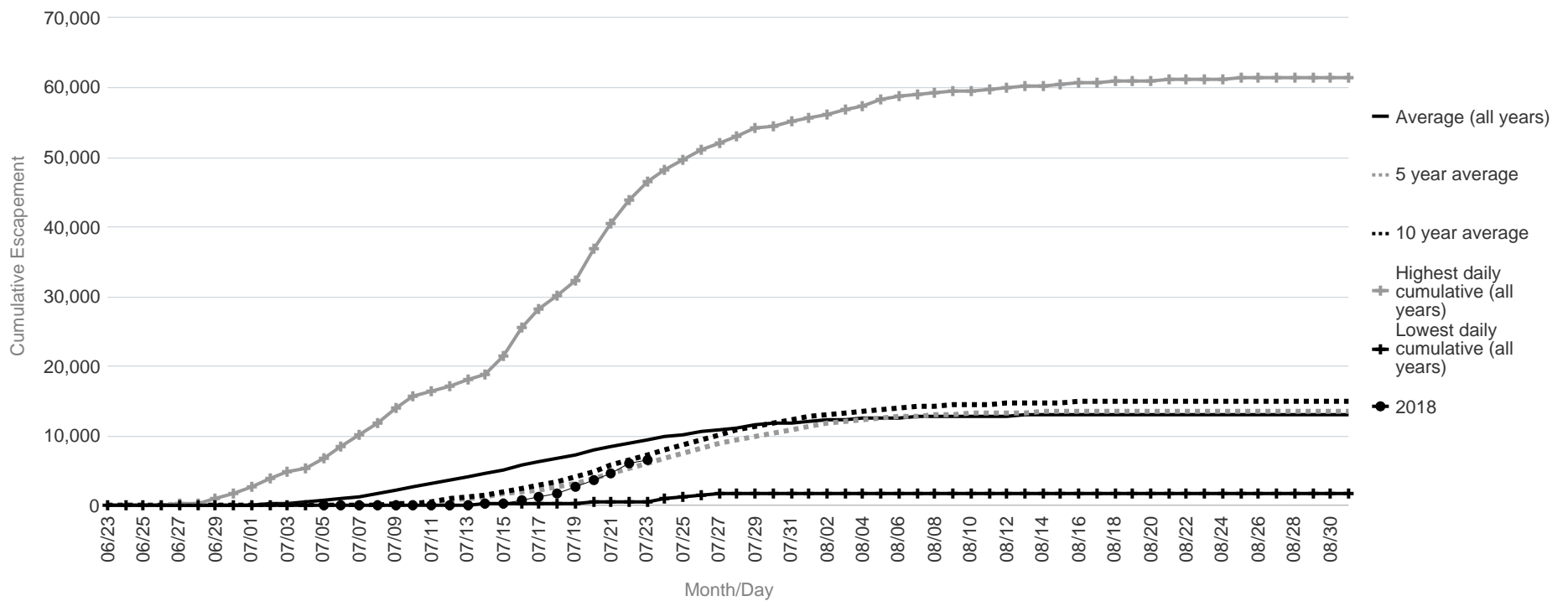
Date	Lowest daily cumulative (all years)	Average (all years)	5 year average	10 year average	Highest daily cumulative (all years)	2018
07/17	329	6,307	2,182	2,993	28,331	1,131
07/18	337	6,804	2,647	3,450	30,165	1,764
07/19	357	7,334	3,253	4,180	32,268	2,655
07/20	411	7,900	3,788	4,857	36,932	3,698
07/21	474	8,502	4,600	5,701	40,408	4,685
07/22	512	9,001	5,323	6,465	43,827	5,943
07/23	626	9,442	6,042	7,223	46,547	6,637
07/24	1,100	9,811	6,715	7,896	48,302	
07/25	1,365	10,184	7,442	8,603	49,672	
07/26	1,582	10,559	8,167	9,395	51,054	
07/27	1,605	10,912	8,898	10,149	52,086	
07/28	1,620	11,223	9,546	10,820	52,945	
07/29	1,631	11,502	9,984	11,384	54,109	
07/30	1,639	11,724	10,489	11,856	54,579	
07/31	1,651	11,911	10,961	12,291	55,213	

	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

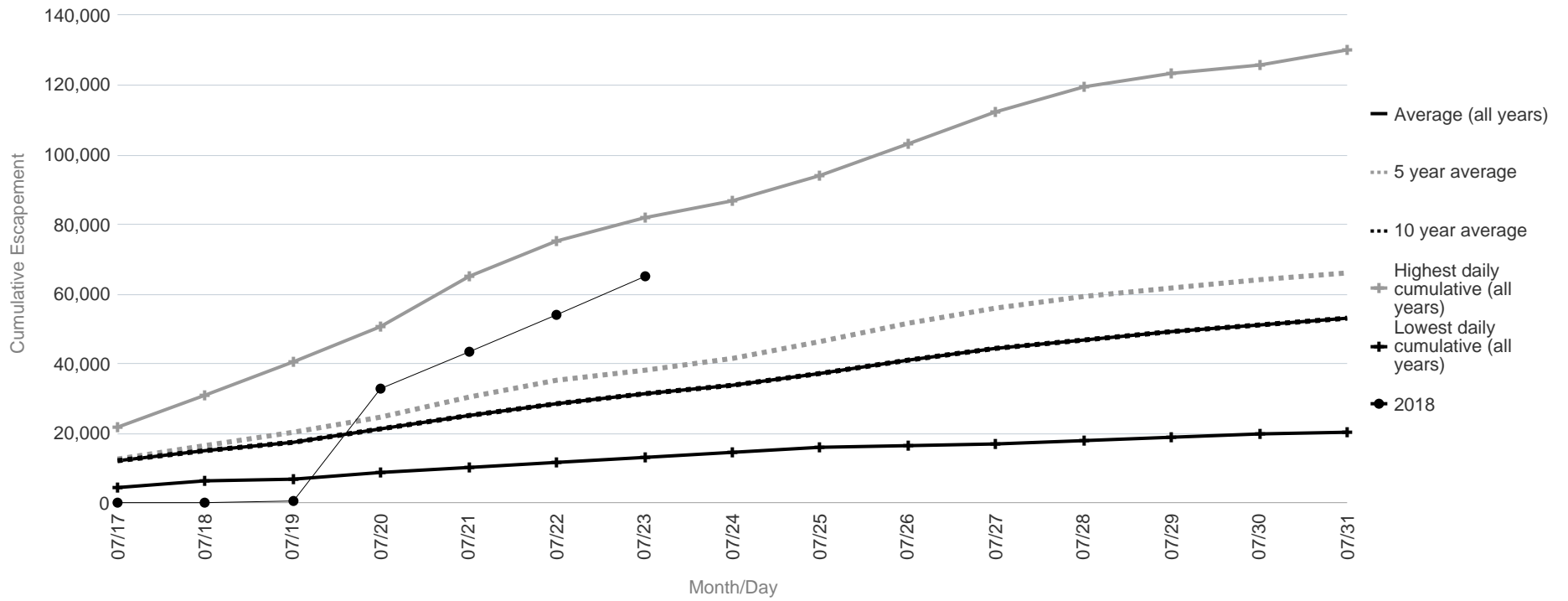


Telaquana River Salmon Monitoring Project Passage of Sockeye Salmon

Date	Lowest daily cumulative (all years)	Average (all years)	5 year average	10 year average	Highest daily cumulative (all years)	2018
07/17	4,636	12,017	12,757	12,017	21,869	3
07/18	6,266	14,972	16,507	14,972	31,074	36
07/19	7,014	17,598	20,079	17,598	40,637	695
07/20	8,623	21,092	24,657	21,092	50,867	32,653
07/21	10,234	25,269	30,454	25,269	65,091	43,569
07/22	11,467	28,591	34,996	28,591	75,211	53,986
07/23	13,293	31,143	38,069	31,143	81,746	64,879
07/24	14,622	33,894	41,716	33,894	86,741	
07/25	15,784	37,188	46,293	37,188	94,165	
07/26	16,443	40,868	51,382	40,868	103,339	
07/27	16,969	44,206	55,814	44,206	112,136	
07/28	17,964	46,982	59,332	46,982	119,269	
07/29	18,844	49,098	61,844	49,098	123,368	
07/30	19,887	50,982	64,010	50,982	125,890	
07/31	20,309	52,944	65,947	52,944	130,000	

	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

