

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: 08/01/2018

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: 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**.

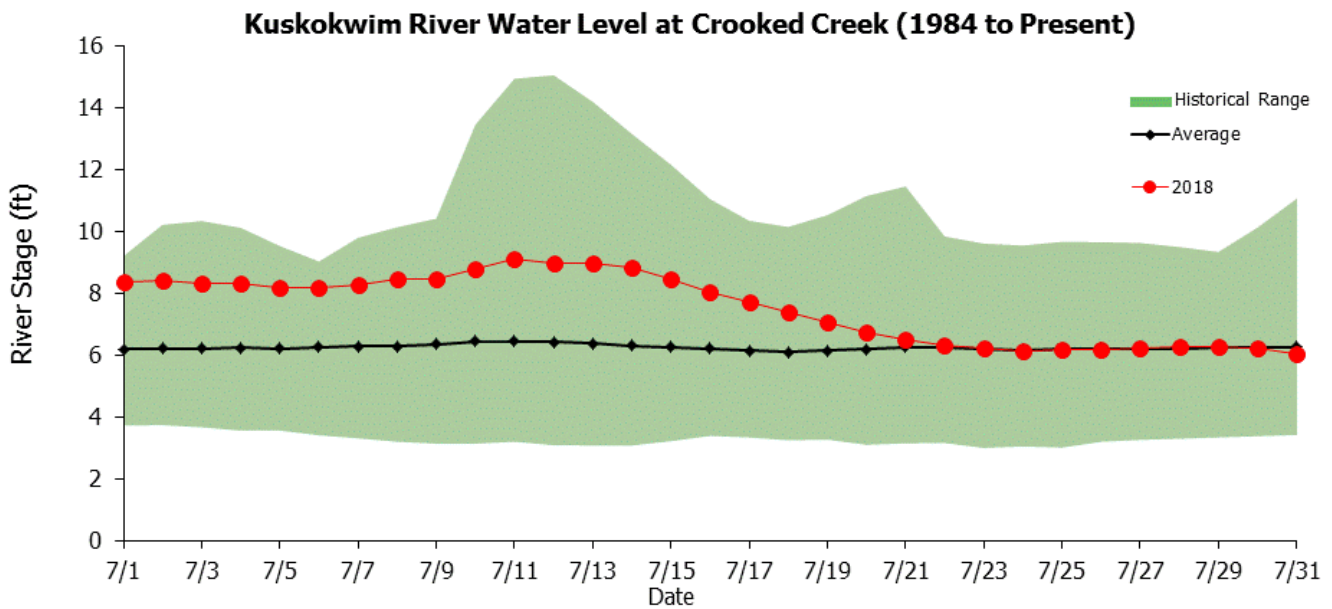
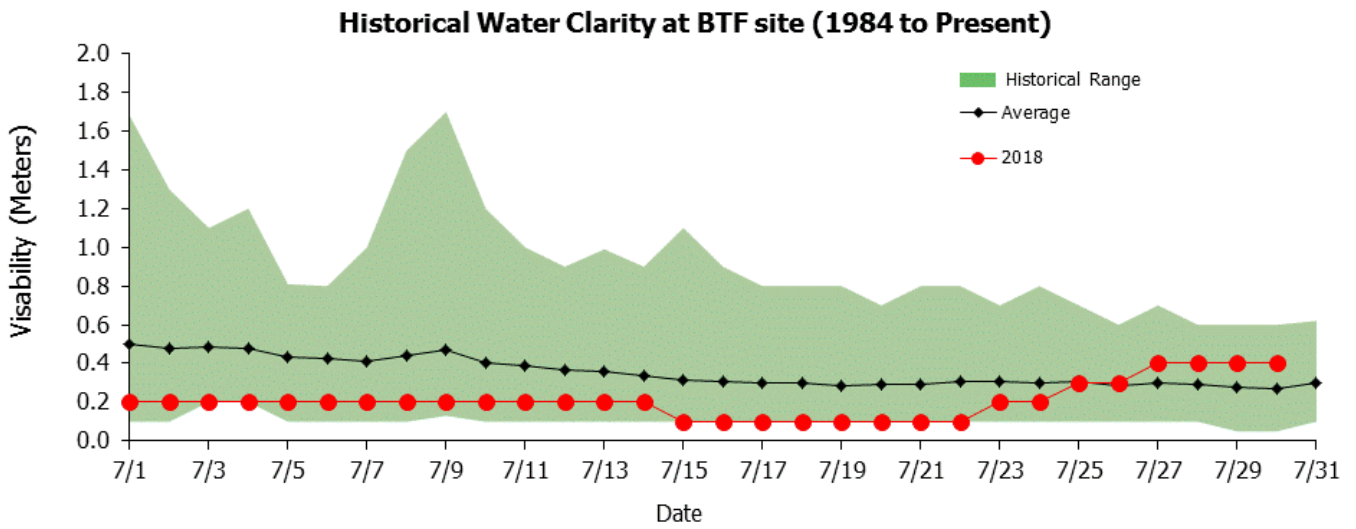
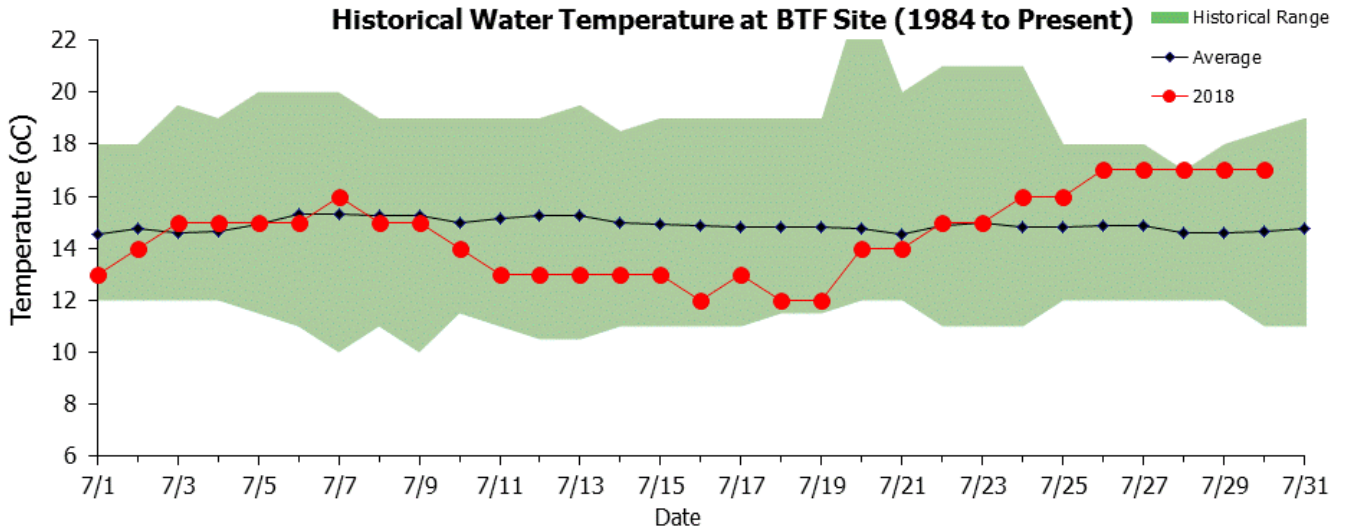
Ask Questions: ADF&G staff will be happy to answer biology and management questions. Please call **1-855-933-2433** to reach ADF&G Kuskokwim Area staff.

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

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

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Informational Packet

Kuskokwim River Salmon Assessment Update

7/30/2018



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).

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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:

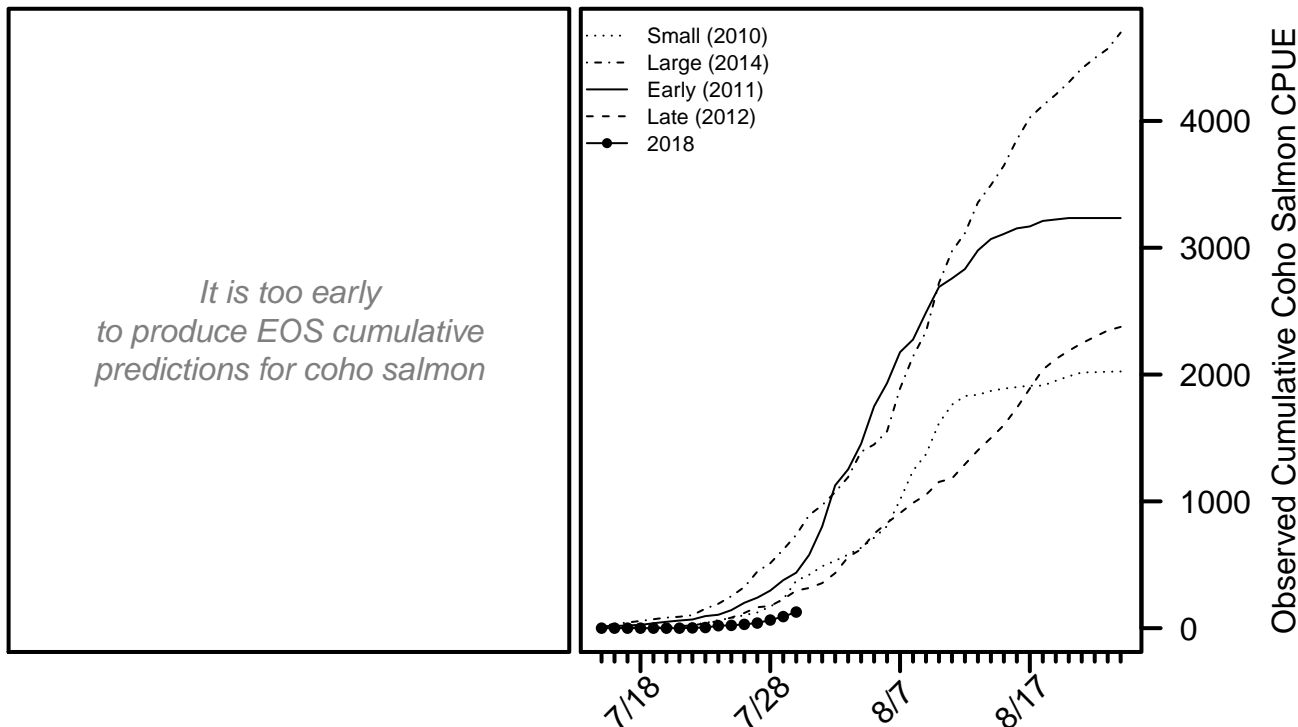
- USFWS: https://www.fws.gov/refuge/yukon_delta/wildlife_and_habitat/dailyupdate.html
- ADF&G: <http://www.adfg.alaska.gov/index.cfm?adfg=cfnews.main>

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Coho Salmon BTF Summary (7/30)

- The BTF daily CPUE was **36**.
- The BTF cumulative CPUE is now **127**.
- **0%** years since 2008 fell below this cumulative CPUE on this date.
- **11%** of the run is complete based on historical average run timing.
- **5% - 21%** of the run is complete based the central 50% of all historical run timing scenarios.
- **16% - 24%** of the run is expected to pass Bethel in the next 5 days.
- Over the last 3 days, coho salmon made up **26%** of the BTF catches, compared to **72%** 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.



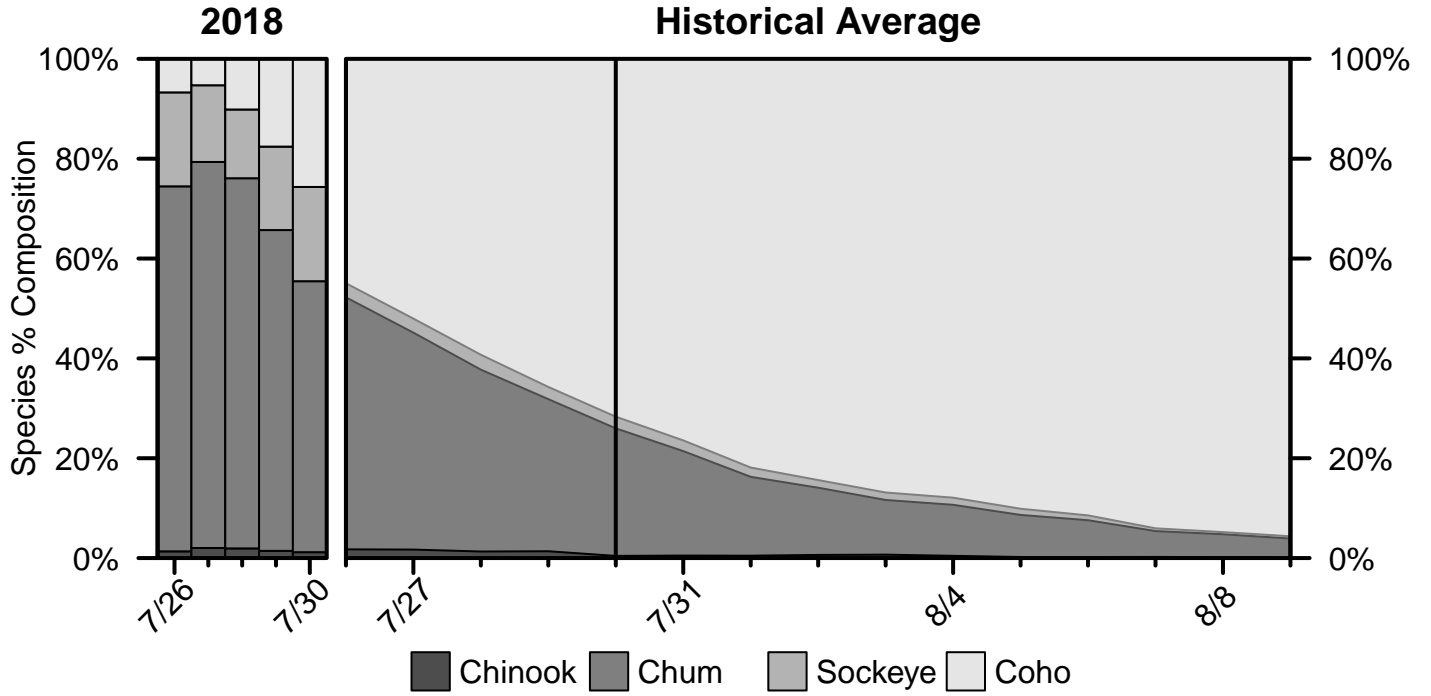
For more detailed information, see the [coho salmon appendix](#) at the end of this document.

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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.



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Chinook, Chum, Sockeye Salmon Summaries

Chinook Salmon Summary

- The BTF daily CPUE was **2** (cumulative: **661**).
- If the run ended on 7/30, 50% of the run would have passed BTF on **6/25**, which is **2 days later** than average.
- The sonar project ended on 7/26 with a cumulative passage estimate of **105,600 (90,900 - 120,200)**.
- 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.
7/27	657	364	679	610	648	513	533
7/28	657	364	679	610	648	513	533
7/29	659	366	679	610	650	513	533
7/30	661	366	680	610	650	514	533
EOS		374	687	625	650	519	538

Chum Salmon Summary

- The BTF daily CPUE was **63** (cumulative: **8,009**).
- If the run ended on 7/30, 50% of the run would have passed BTF on **7/10**, which is **5 days later** than average.
- The sonar project ended on 7/26 with a cumulative passage estimate of **552,000 (506,200 - 597,800)**.
- 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.
7/27	7,825	6,594	3,601	2,621	6,111	4,896	6,222
7/28	7,889	6,612	3,639	2,654	6,136	4,922	6,260
7/29	7,946	6,622	3,677	2,698	6,180	4,952	6,299
7/30	8,009	6,622	3,709	2,727	6,199	4,968	6,326
EOS		6,785	3,894	2,943	6,343	5,135	6,525

Sockeye Salmon Summary

- The BTF daily CPUE was **20** (cumulative: **2,137**).
- If the run ended on 7/30, 50% of the run would have passed BTF on **7/7**, which is **8 days later** than average.
- The sonar project ended on 7/26 with a cumulative passage estimate of **635,500 (579,700 - 691,400)**.
- 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.
7/27	2,073	2,554	2,127	2,120	1,347	1,858	1,653
7/28	2,089	2,561	2,162	2,127	1,347	1,868	1,659
7/29	2,117	2,572	2,188	2,130	1,354	1,878	1,664
7/30	2,137	2,584	2,208	2,135	1,355	1,886	1,669
EOS		2,690	2,463	2,157	1,367	1,965	1,711

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Coho Salmon Appendix

Coho Salmon Table A1. Cumulative CPUE from the BTF.

Date	2018	2017	2016	2015	2014	5-Yr Avg.	2008 - 2017 Avg.
7/27	40	136	184	244	446	252	311
7/28	64	166	235	277	512	301	387
7/29	91	195	303	319	619	359	469
7/30	127	232	361	371	736	416	551
7/31		246	412	461	892	485	655
8/1		318	487	531	969	554	762
8/2		417	528	601	1,073	628	885
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	7/30 Cumulative %
Earliest	7/29	44%
Early 10%	8/4	31%
Early 25%	8/6	21%
Median	8/8	11%
Late 25%	8/11	5%
Late 10%	8/13	2%
Latest	8/15	1%

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Appendix.- Chinook salmon spawning aerial survey index estimates, Kuskokwim River Drainage, Kuskokwim Management Area, 1975–2018.

Year	Lower Kuskokwim River ^a				Middle Kuskokwim River ^a								Upper Kuskokwim River ^a			
	Eek	Kwethluk Canyon C.	Kisaralik	Tuluksak	Aniak	Kipchuk	Salmon (Aniak)	Holokuk	Oskawalik	Holitna	Gagarayah	Cheeneetnuk	Bear (Pitka)	Salmon (Pitka)	Upper Pitka	Pitka Fork
1975													36			
1976									2,571				182			
1977		2,075		424							897	2,407		1,930		
1978		1,722	2,417				289		2,766	504	268		227	1,100		
1979														682		
1980	2,378			975			1,186									
1981					9,074								93			
1982			81				126		521				127	413		
1983	188	471		186	1,909		231		1,069			173		572		
1984												1,177		545		
1985	1,118		63	142								1,002		620		
1986					424		336		650							
1987	1,740					193	516		193			317				
1988	2,256	622	869	195	954		244		80					474		
1989	1,042	1,157	152		2,109	1,598	631							452		
1990			631	200	1,255	537	596		113							
1991	1,312		217	358	1,564	885	583									
1992					2,284	670	335		91	2,022	328	1,050		2,536		
1993					2,687	1,248	1,082	233	103	1,573	419	678		1,010		
1994			1,243				1,520	1,218			807	1,206		1,010		
1995			1,243		3,171	1,215	1,446		326	1,887	1,193	1,565		1,911		
1996							985									
1997			439		2,187	855	980		1,470	2,093	364	345				
1998	523		457		1,930	443	425									
1999									98	741						
2000					714	182	238			301				362	151	
2001							598	52		4,156	143		175	1,033		
2002		1,795	1,727				1,615	1,236	513	295	733	452	730	211	1,255	165
2003	1,236	2,661	654	94	3,514	1,493	1,242	1,096	844		1,095	810	176	1,242	197	
2004	4,653	6,801	5,157	1,196	5,362	1,868	2,177	539	293	4,051	670	918	206	1,138	290	
2005		5,059	2,206	672			1,679	4,097	510	582	1,760	788	1,155	367	1,801	744
2006			4,734		5,639	1,618		705	386	1,866	531	1,015	347	862	170	
2007			692	173	3,984	2,147	1,458				1,035		165	943	131	
2008		487	1,074		3,222	1,061	589	418	213		177	290	245	1,033	242	
2009								565	379		303	323	209	632	187	
2010			235					229		587	62		75	135	67	
2011	263					116	79	61	26		96	249	145	767	85	
2012			588			193	49	36	51		178	229		670		
2013	240	1,165	599	83	754	261	154		38	532	74	138	64	469		
2014	189		622		3,201	1,220	497	80	200		359	340		1,865		
2015			709			917	810	77		662	19		1,381	2,016		
2016			622		718	898		100	47	1,157	135	217	580	1,578		
2017					1,781	889	423	140	136	676	453	660	492	687	234	
2018			584		1,534	1,123	442	162		980	438	565	550	1,399	471	
Escapement Goal		400-1,200			1,200-2,300		330-1,200			970-2,100	300-830	340-1,300		470-1,600		
10-yr ave	231	826	636	83	1,935	694	372	190	136	723	186	306	399	985	163	

^a Estimates are from aerial surveys conducted during peak spawning periods under 'good' or 'fair' survey conditions.

Informational Packet

August 1, 2018 ADF&G Subsistence Division Inseason Salmon Harvest Survey Project Update

Department of Fish and Game Division of Subsistence have worked 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. On July 30 Division of Subsistence staff left the field for the summer season and will return during the post season harvest survey project this fall.

Middle Kuskokwim

Since last week's Working Group meeting, Subsistence Division and Native Village of Napaimute (NVN) staff have completed household surveys in Lower Kalskag, Upper Kalskag, Aniak, Crooked Creek, Red Devil, Sleetmute, Stony River, and Lime Village. As of this written report, an NVN technician was attempting to complete surveys in Chuathbaluk where tribal council staff had asked us to delay our work due to a conflict with community events. One survey was completed in Stony River, where the tribal council informed ADF&G and NVN that all other fishing households were fishing out of camp. Staff attempted to contact people at their camp; however, no one was available. The most updated information from surveys in Red Devil and Lime Village is summarized below.

Table 1. Summary information from surveys completed in Red Devil and Lime Village.

	Red Devil	Lime Village
Number of households surveyed	10	8
Percentage of total households	83%	67%
HHs that did fish	6	6
Number that did not fish	4	2
Number HHs that have met their needs so far	7	8
Number HHs that have not met their needs yet	3	0
Average total annual catch goal (all salmon)	57	185
Minimum total annual goal	15	120
Maximum total annual goal	100	250

Informational Packet

August 1, 2018 ADF&G Subsistence Division Inseason Salmon Harvest Survey Project Update (continued)

Figure 1. Reports of fishing progress in Red Devil as of July 30, 2018.

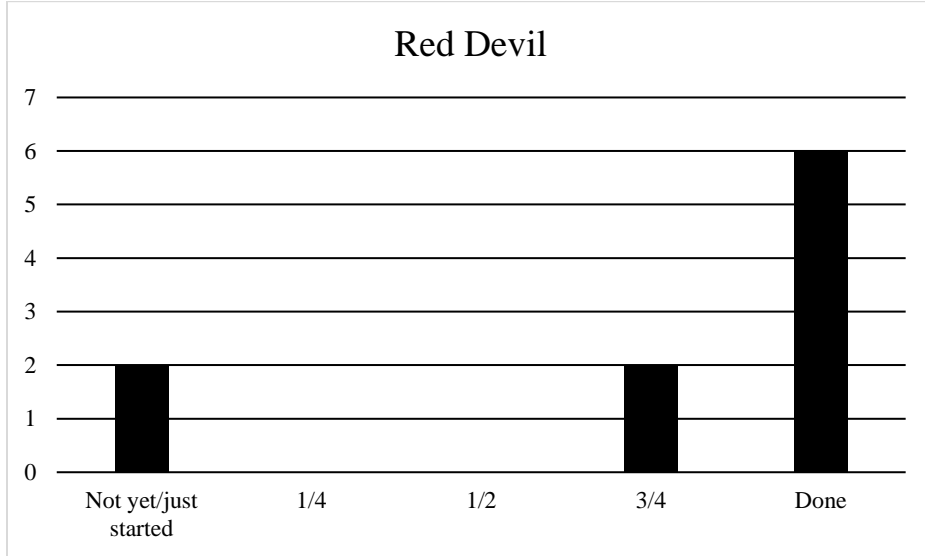
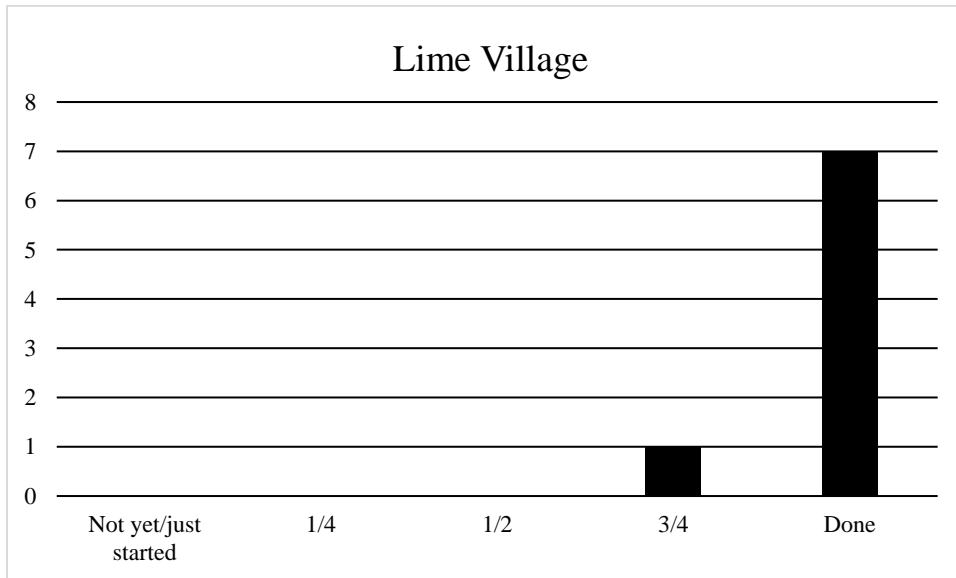


Figure 2. Reports of fishing progress in Lime Village as of July 30, 2018.



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>

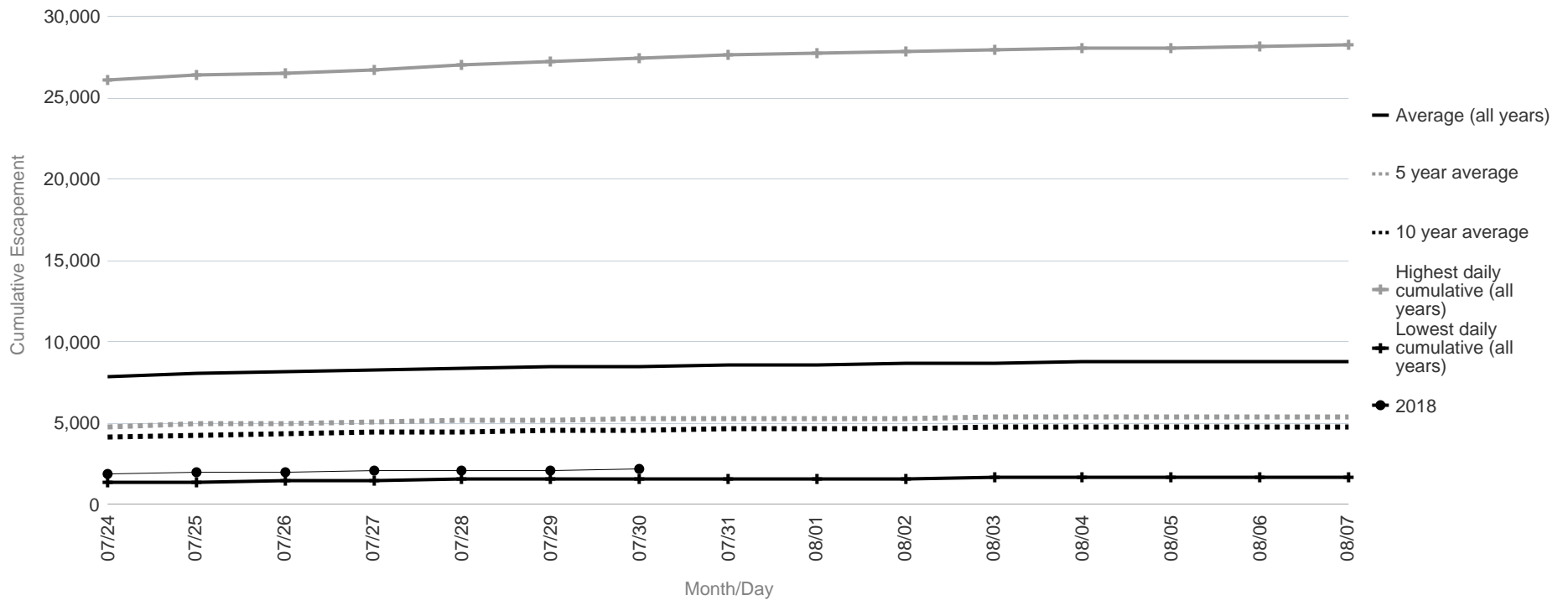
Kwethluk River Salmon Monitoring Project Cumulative Daily Passage of Chinook Salmon

Escapement Goal Range: 4,100 to 7,500

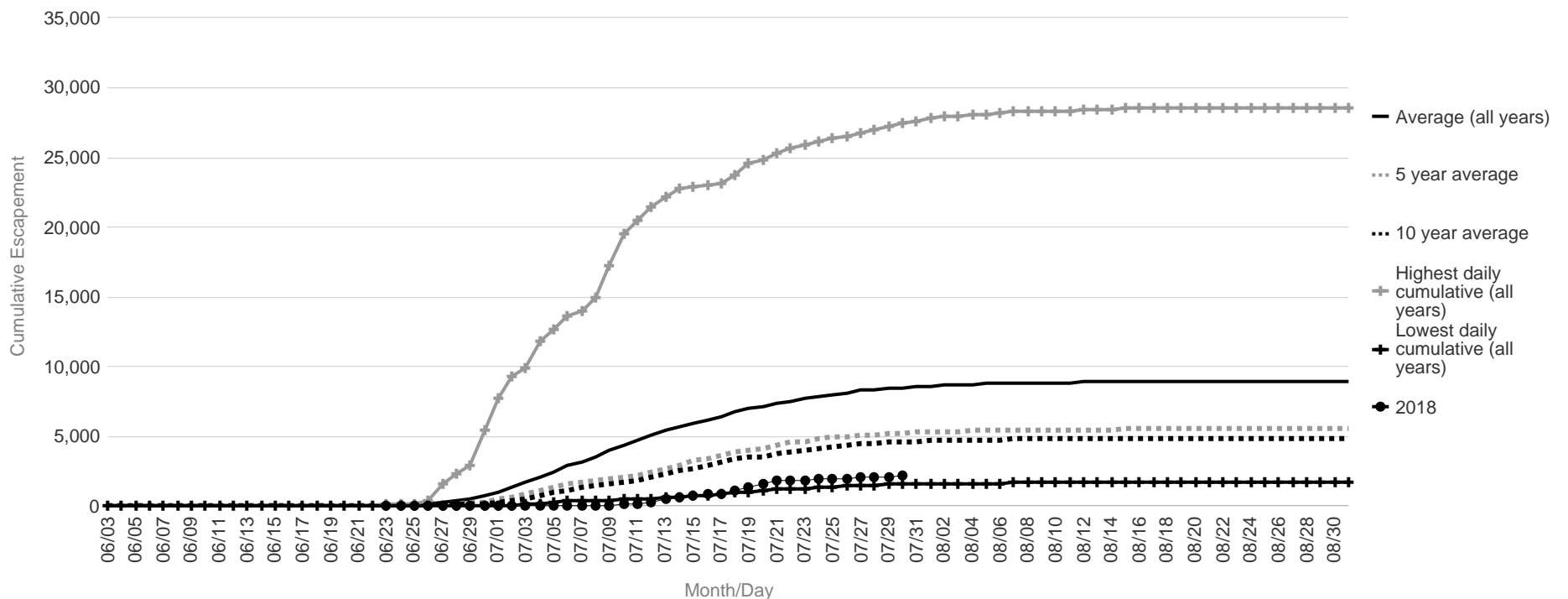
Date	Lowest daily cumulative (all years)	Average (all years)	5 year average	10 year average	Highest daily cumulative (all years)	2018
07/24	1,308	7,859	4,805	4,123	26,139	1,888
07/25	1,354	8,020	4,923	4,236	26,387	1,946
07/26	1,428	8,143	4,991	4,320	26,526	2,003
07/27	1,472	8,271	5,090	4,427	26,707	2,044
07/28	1,522	8,357	5,136	4,477	27,026	2,085
07/29	1,552	8,441	5,191	4,546	27,263	2,124
07/30	1,572	8,497	5,231	4,590	27,431	2,157
07/31	1,578	8,564	5,266	4,622	27,623	
08/01	1,596	8,620	5,295	4,659	27,818	
08/02	1,617	8,671	5,328	4,694	27,892	
08/03	1,630	8,710	5,354	4,716	27,971	
08/04	1,633	8,742	5,383	4,740	28,036	
08/05	1,636	8,768	5,400	4,754	28,101	
08/06	1,643	8,794	5,413	4,768	28,197	
08/07	1,652	8,815	5,425	4,780	28,269	

	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

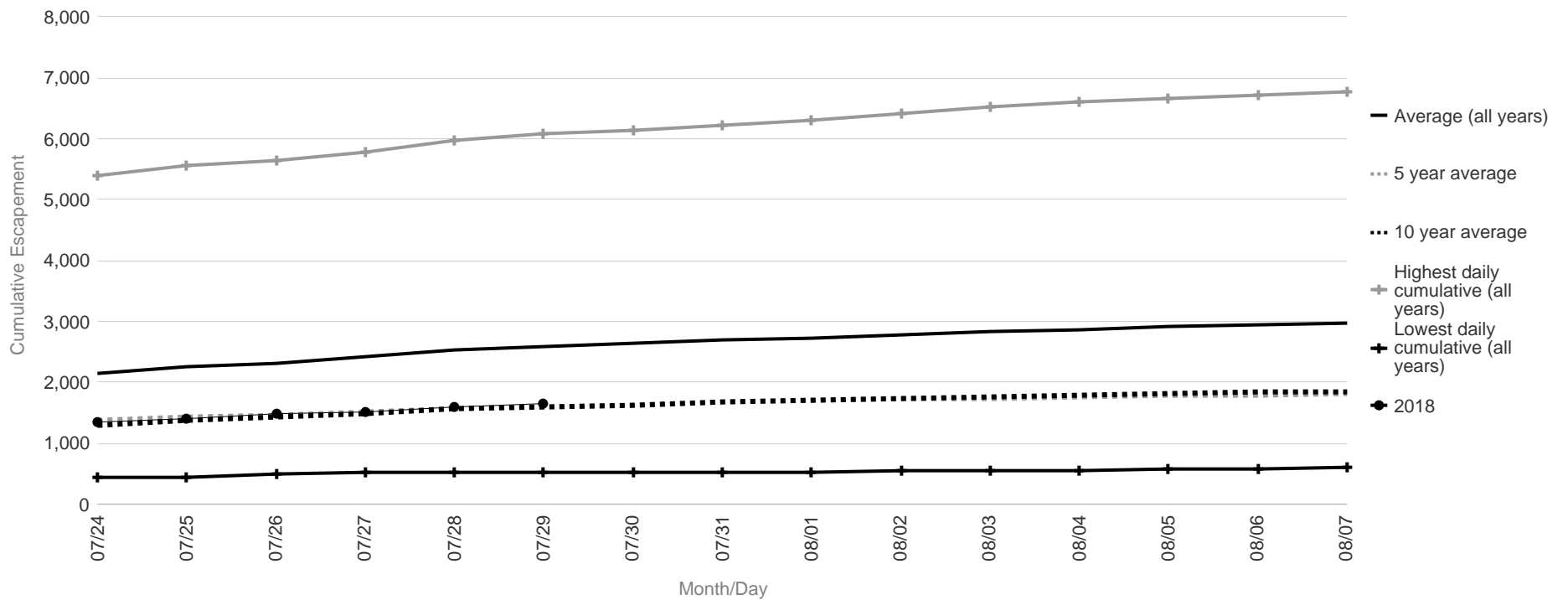


Salmon River (Aniak) Salmon Monitoring Project Passage of Chinook Salmon

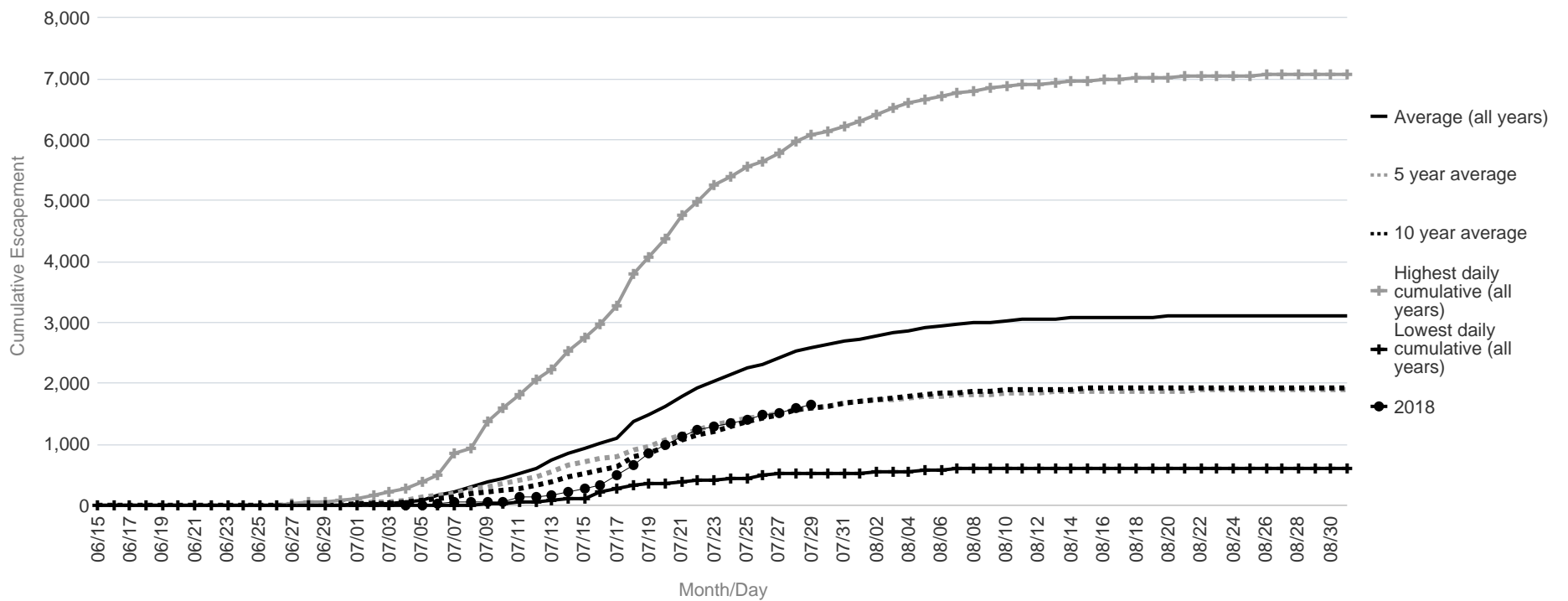
Date	Lowest daily cumulative (all years)	Average (all years)	5 year average	10 year average	Highest daily cumulative (all years)	2018
07/24	448	2,142	1,386	1,312	5,396	1,364
07/25	451	2,251	1,431	1,381	5,551	1,414
07/26	497	2,324	1,477	1,434	5,655	1,483
07/27	514	2,416	1,520	1,486	5,773	1,521
07/28	518	2,530	1,566	1,563	5,966	1,589
07/29	525	2,589	1,598	1,604	6,090	1,648
07/30	531	2,638	1,637	1,639	6,154	
07/31	536	2,695	1,671	1,680	6,236	
08/01	540	2,740	1,707	1,712	6,311	
08/02	545	2,783	1,726	1,739	6,425	
08/03	550	2,829	1,745	1,771	6,527	
08/04	565	2,860	1,764	1,794	6,611	
08/05	591	2,913	1,785	1,822	6,673	
08/06	594	2,946	1,799	1,839	6,720	
08/07	603	2,970	1,812	1,853	6,763	

	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



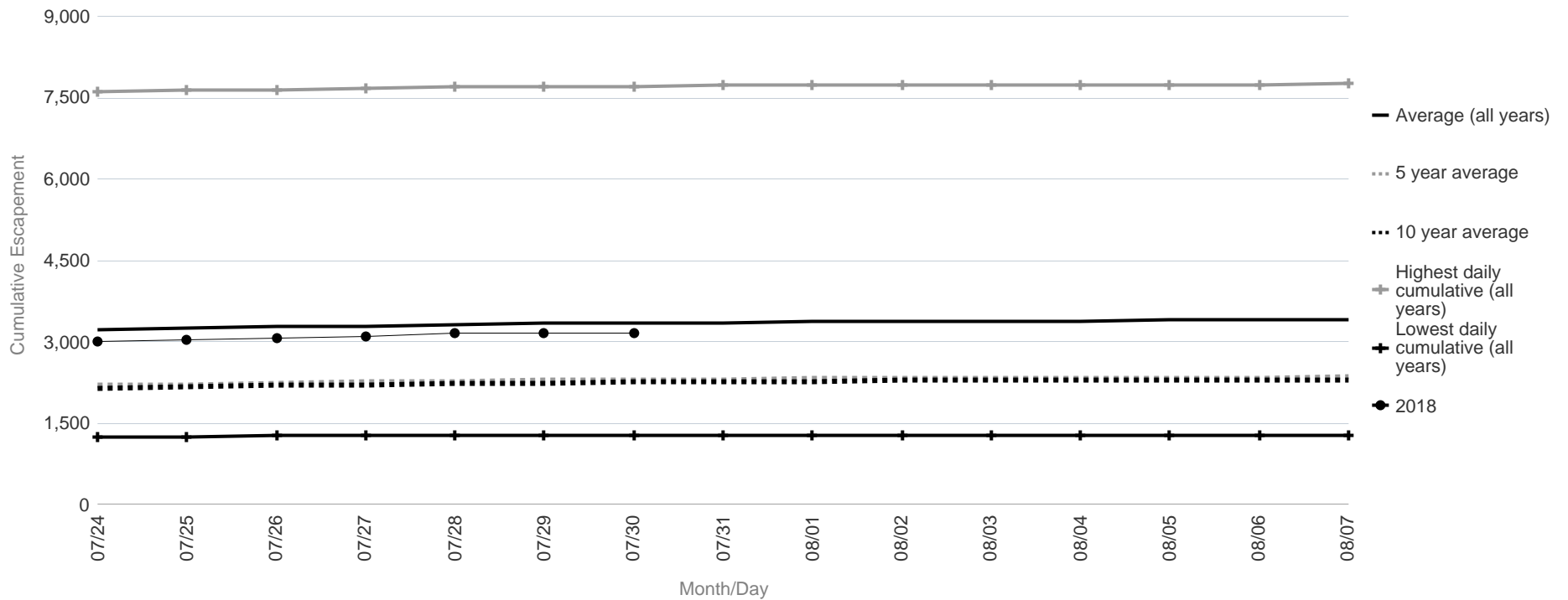
George River Salmon Monitoring Project Cumulative Daily Passage of Chinook Salmon

Escapement Goal Range: 1,800 to 3,300

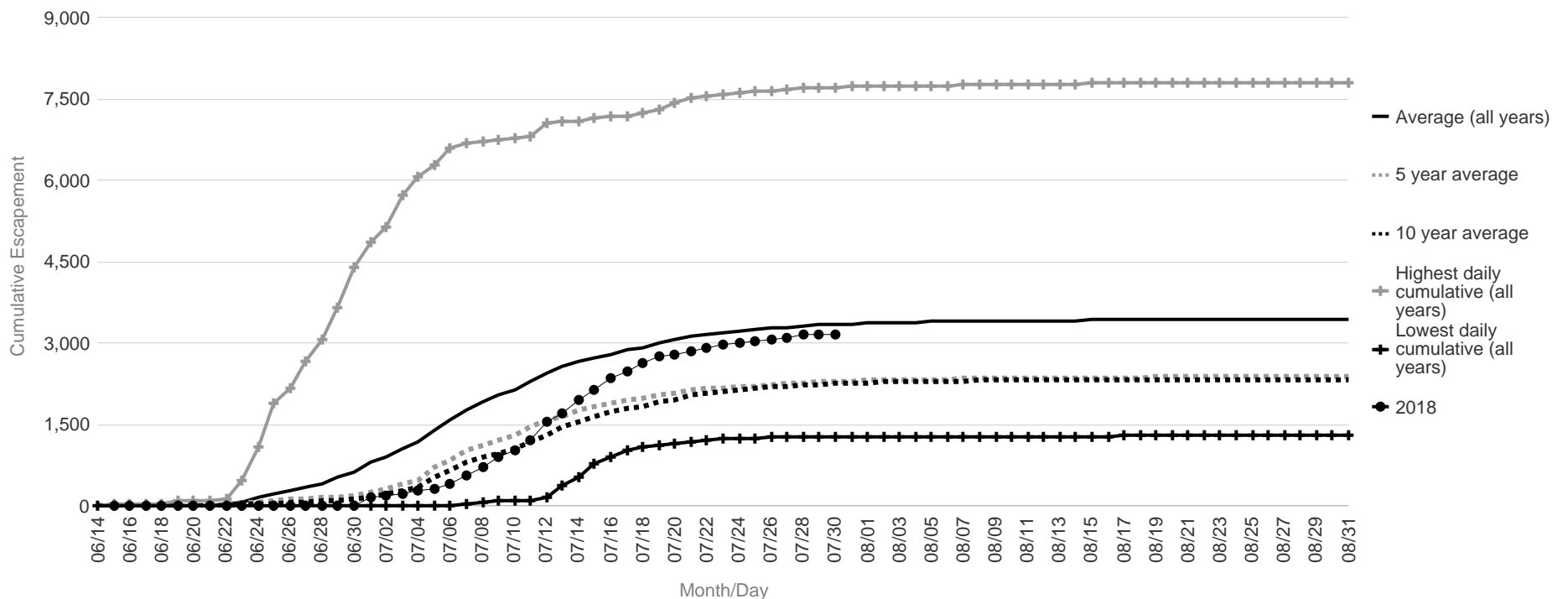
Date	Lowest daily cumulative (all years)	Average (all years)	5 year average	10 year average	Highest daily cumulative (all years)	2018
07/24	1,240	3,229	2,200	2,144	7,607	3,013
07/25	1,251	3,258	2,216	2,172	7,648	3,038
07/26	1,260	3,280	2,230	2,194	7,666	3,077
07/27	1,264	3,301	2,252	2,216	7,675	3,105
07/28	1,272	3,321	2,270	2,234	7,700	3,148
07/29	1,273	3,335	2,284	2,249	7,707	3,159
07/30	1,275	3,345	2,295	2,258	7,720	3,167
07/31	1,276	3,357	2,305	2,269	7,733	
08/01	1,279	3,367	2,311	2,279	7,737	
08/02	1,280	3,375	2,320	2,286	7,742	
08/03	1,283	3,383	2,327	2,292	7,749	
08/04	1,283	3,389	2,332	2,297	7,753	
08/05	1,283	3,395	2,337	2,301	7,757	
08/06	1,283	3,399	2,342	2,306	7,759	
08/07	1,284	3,403	2,348	2,310	7,762	

	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



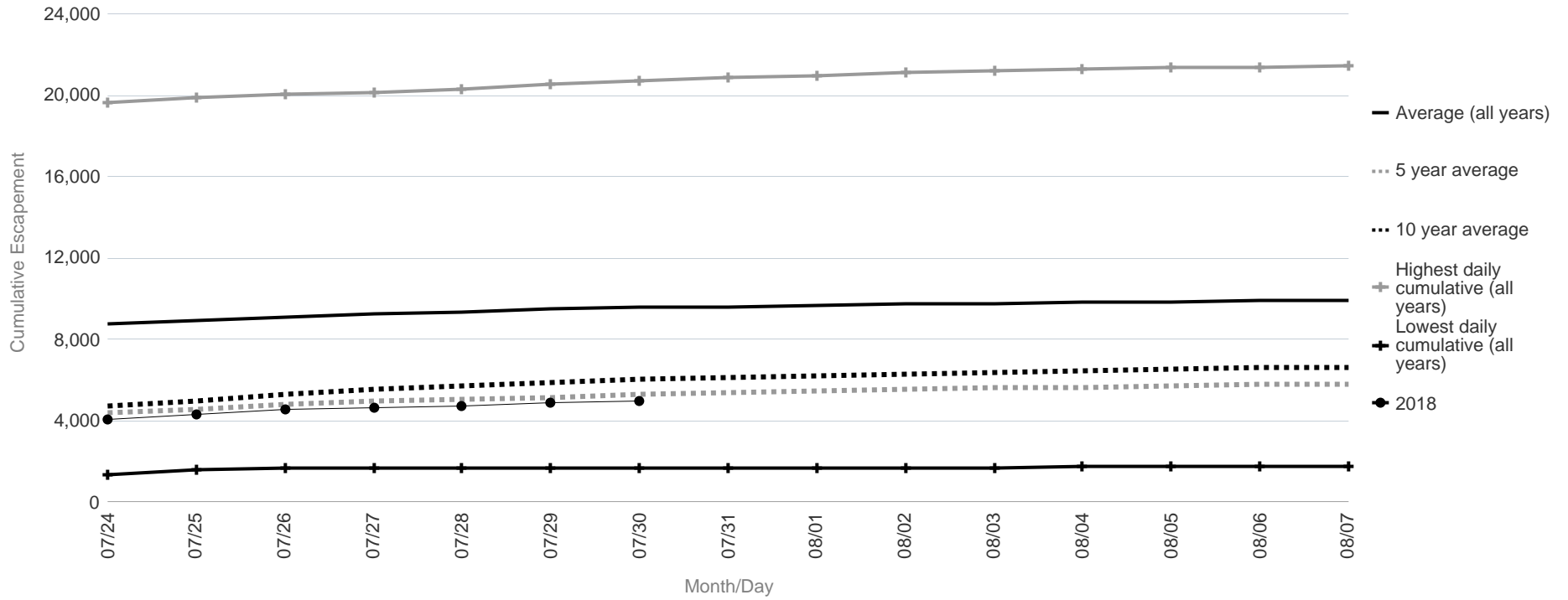
Kogrukluk River Salmon Monitoring Project Cumulative Daily Passage of Chinook Salmon

Escapement Goal Range: 4,800 to 8,800

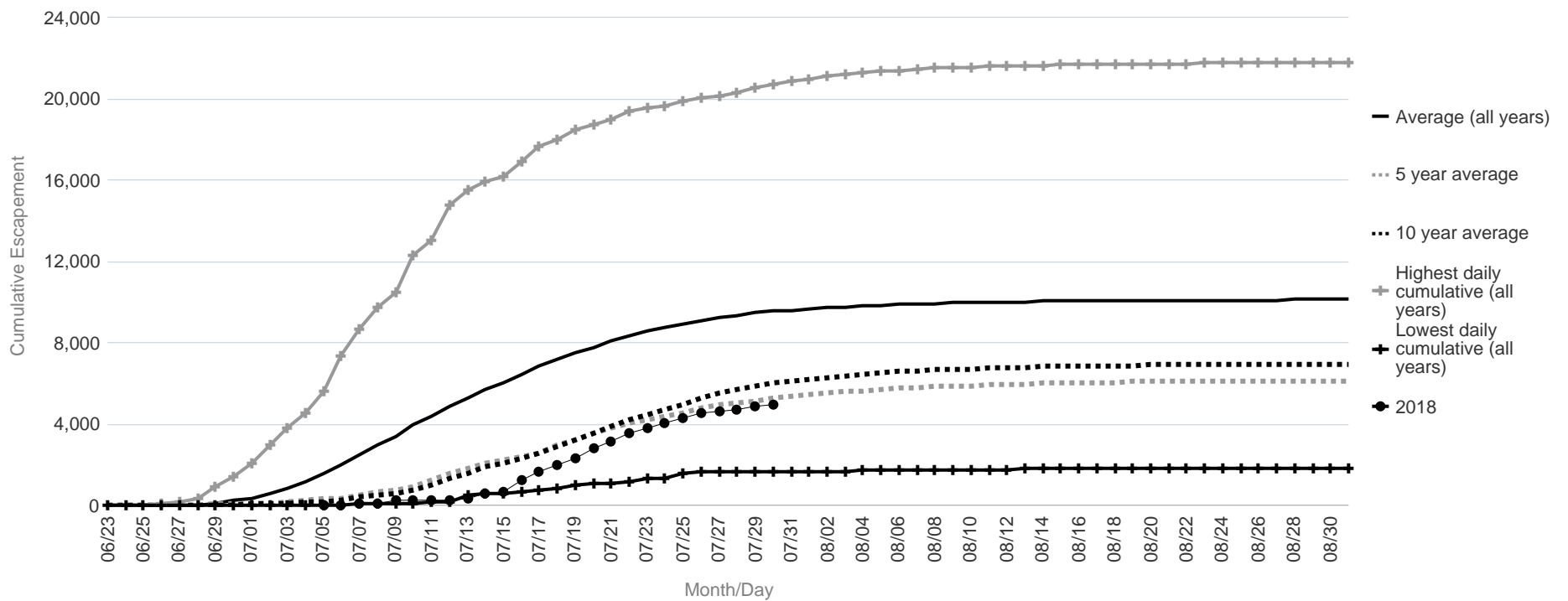
Date	Lowest daily cumulative (all years)	Average (all years)	5 year average	10 year average	Highest daily cumulative (all years)	2018
07/24	1,361	8,759	4,405	4,745	19,681	4,055
07/25	1,559	8,947	4,576	5,003	19,901	4,343
07/26	1,629	9,103	4,761	5,296	20,060	4,528
07/27	1,648	9,240	4,930	5,524	20,195	4,662
07/28	1,654	9,360	5,063	5,708	20,362	4,757
07/29	1,655	9,467	5,165	5,880	20,597	4,911
07/30	1,666	9,551	5,278	6,007	20,764	4,999
07/31	1,678	9,622	5,382	6,124	20,896	
08/01	1,688	9,680	5,470	6,226	20,977	
08/02	1,692	9,737	5,546	6,318	21,108	
08/03	1,702	9,790	5,607	6,406	21,212	
08/04	1,719	9,833	5,668	6,473	21,310	
08/05	1,721	9,871	5,720	6,535	21,374	
08/06	1,734	9,902	5,767	6,593	21,431	
08/07	1,746	9,927	5,808	6,634	21,476	

	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

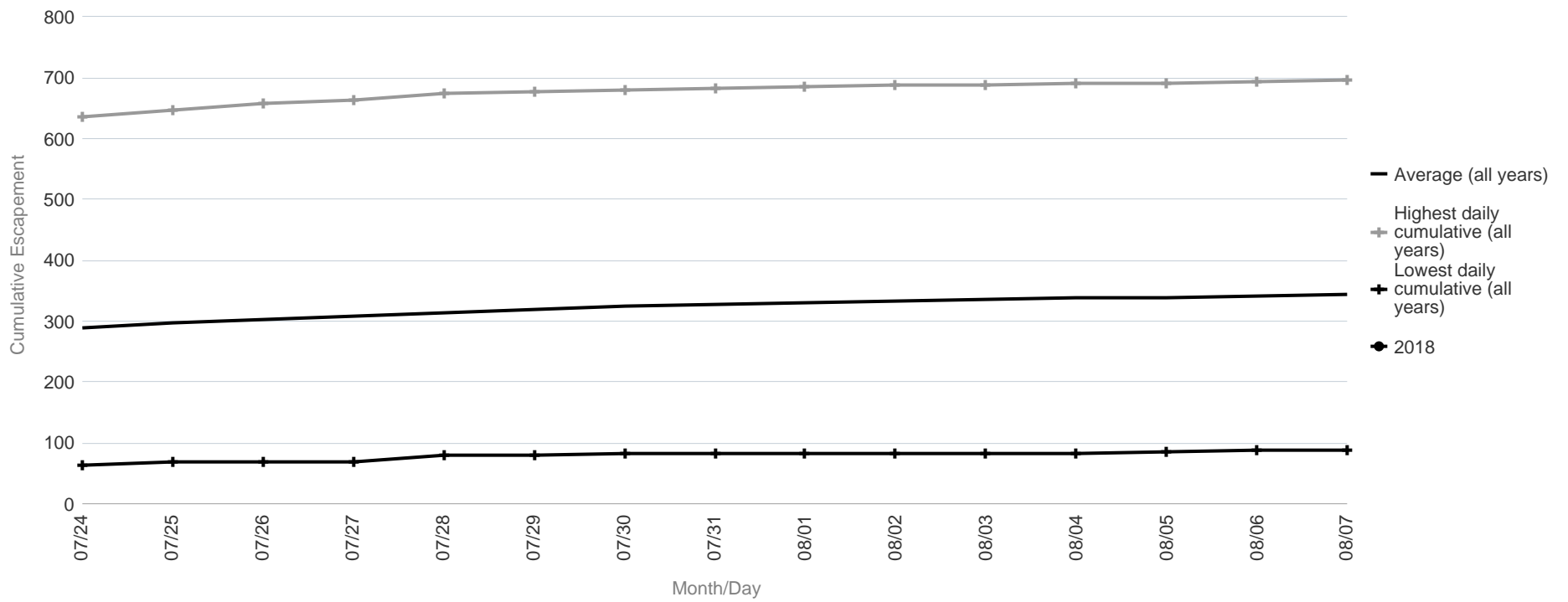


Takotna River Salmon Monitoring Project Passage of Chinook Salmon

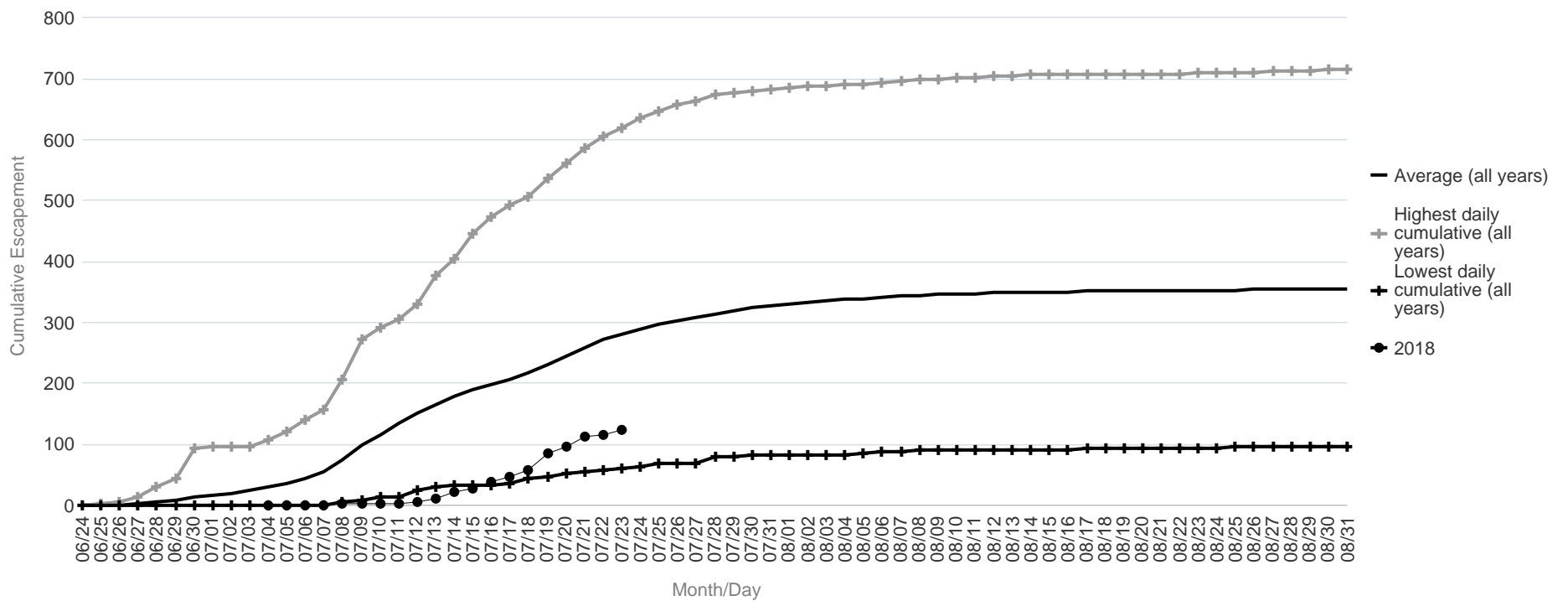
Date	Lowest daily cumulative (all years)	Average (all years)	Highest daily cumulative (all years)	2018
07/24	65	288	637	
07/25	68	297	647	
07/26	69	303	658	
07/27	70	308	664	
07/28	79	314	675	
07/29	79	320	678	
07/30	82	325	680	
07/31	82	328	684	
08/01	82	330	685	
08/02	82	332	688	
08/03	82	335	688	
08/04	84	338	690	
08/05	86	340	691	
08/06	89	342	695	
08/07	89	343	696	

	Lowest Count	Average Count	Highest Count
Season Total	97	357	718

Focused Two-Week Data View



Season Total Overview

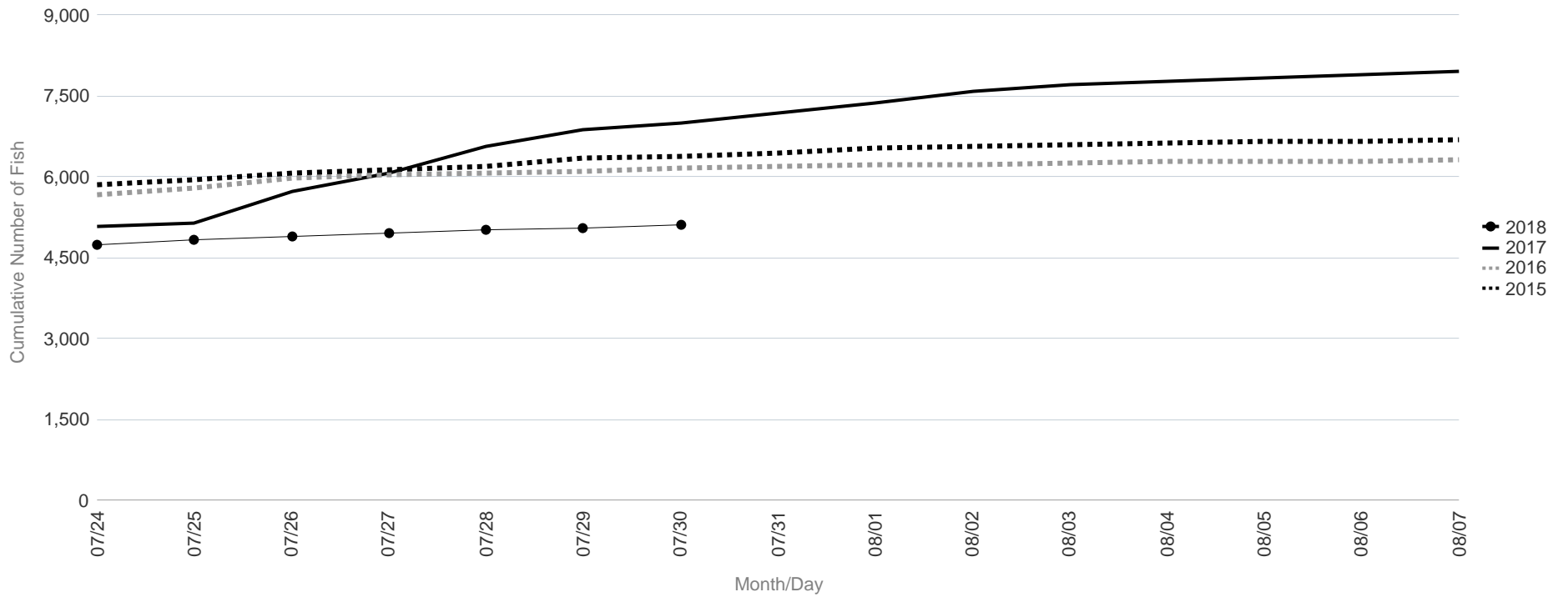


Salmon River (Pitka Fork) Salmon Monitoring Project Passage of Chinook Salmon

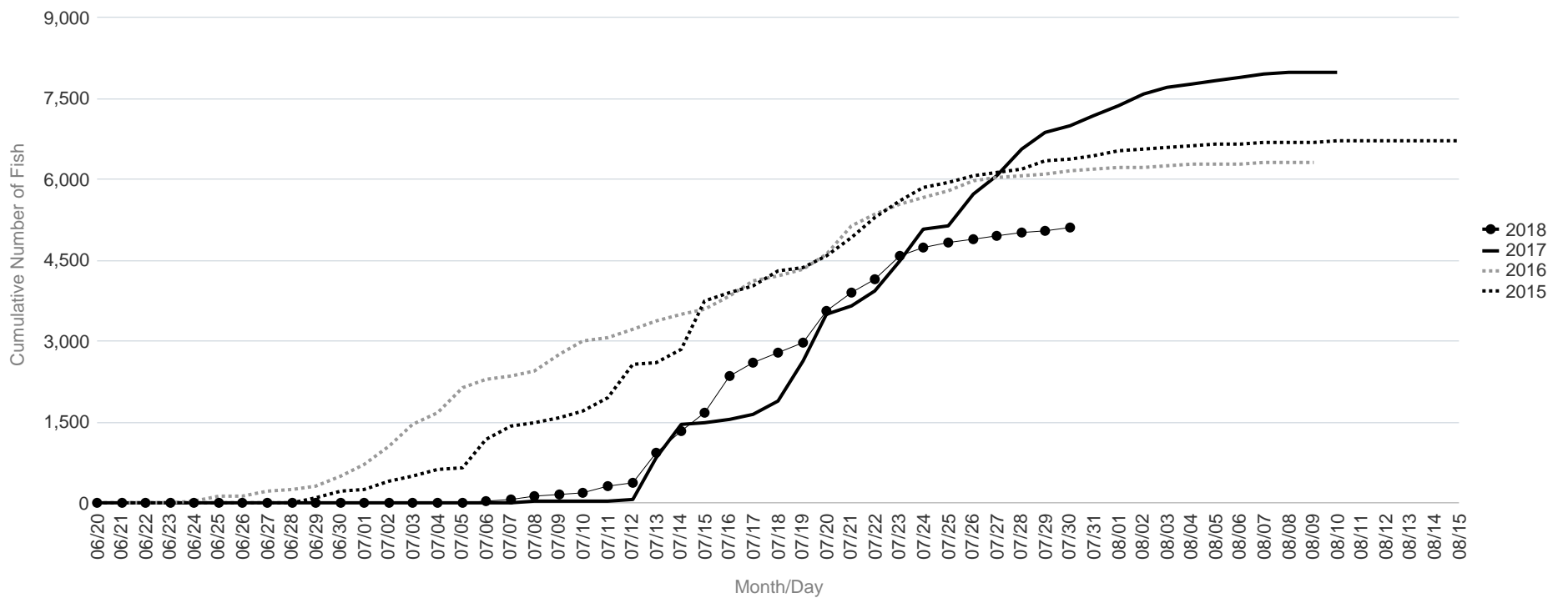
Cumulative Daily Passage				
Date	2015	2016	2017	2018
07/24	5,849	5,671	5,080	4,740
07/25	5,961	5,795	5,146	4,823
07/26	6,061	5,967	5,741	4,898
07/27	6,143	6,032	6,082	4,969
07/28	6,198	6,076	6,577	5,017
07/29	6,346	6,118	6,891	5,046
07/30	6,372	6,163	7,003	5,107
07/31	6,439	6,199	7,181	
08/01	6,539	6,223	7,372	
08/02	6,578	6,242	7,575	
08/03	6,598	6,261	7,722	
08/04	6,628	6,284	7,779	
08/05	6,650	6,296	7,843	
08/06	6,666	6,300	7,908	
08/07	6,680	6,313	7,964	

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

Focused Two-Week Data View



Season Total Overview

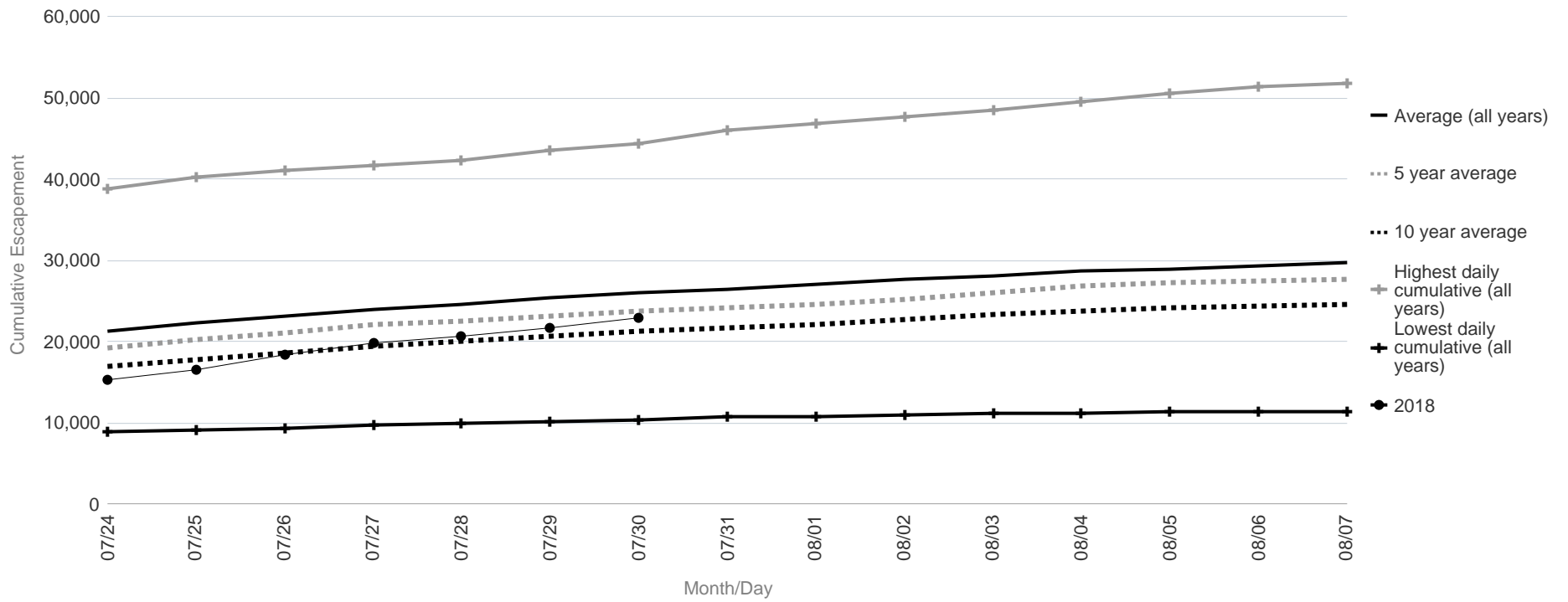


Kwethluk River Salmon Monitoring Project Cumulative Daily Passage of Chum Salmon

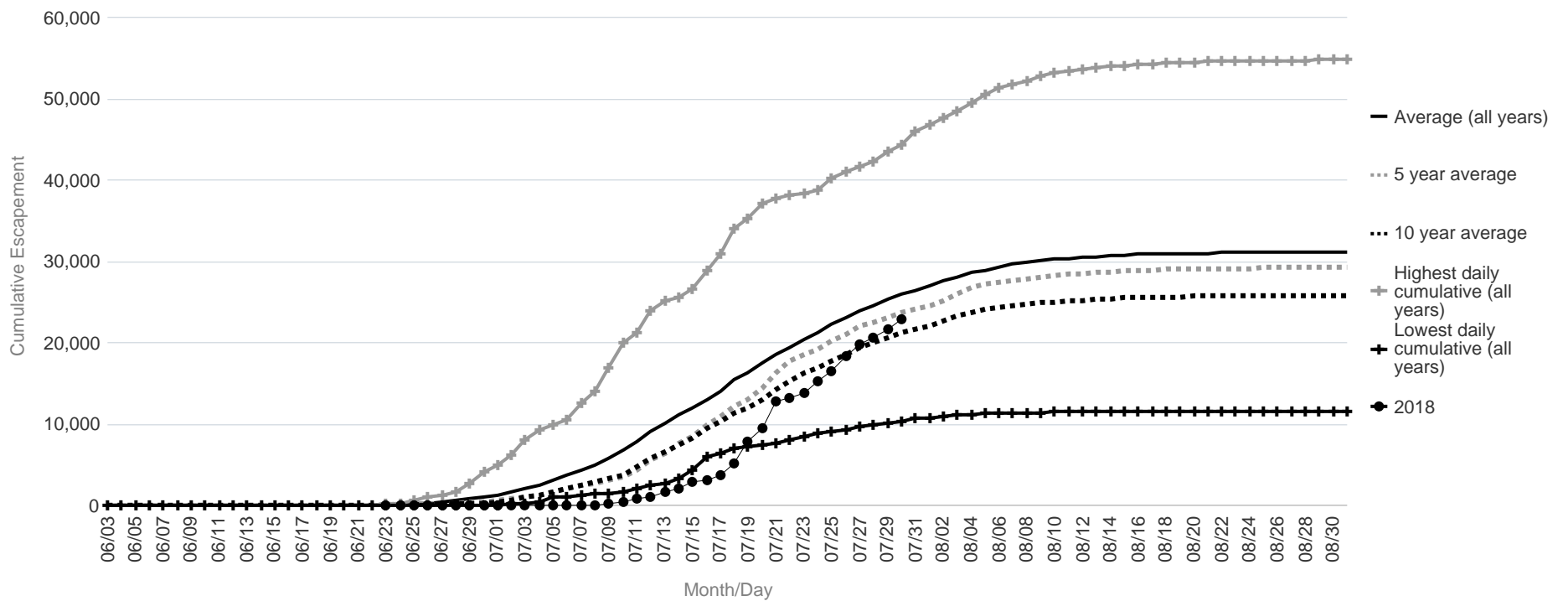
Date	Lowest daily cumulative (all years)	Average (all years)	5 year average	10 year average	Highest daily cumulative (all years)	2018
07/24	8,807	21,299	19,257	16,988	38,913	15,238
07/25	9,015	22,247	20,249	17,800	40,246	16,631
07/26	9,346	23,107	21,109	18,545	41,025	18,454
07/27	9,711	23,955	22,026	19,376	41,681	19,831
07/28	9,928	24,638	22,569	20,034	42,419	20,607
07/29	10,129	25,357	23,113	20,675	43,514	21,712
07/30	10,426	25,956	23,771	21,262	44,489	22,855
07/31	10,674	26,483	24,218	21,657	46,067	
08/01	10,829	26,997	24,593	22,121	46,805	
08/02	10,972	27,601	25,292	22,725	47,653	
08/03	11,127	28,121	26,077	23,252	48,471	
08/04	11,224	28,631	26,848	23,865	49,498	
08/05	11,326	29,032	27,225	24,148	50,630	
08/06	11,364	29,375	27,510	24,392	51,367	
08/07	11,412	29,664	27,730	24,620	51,831	

	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

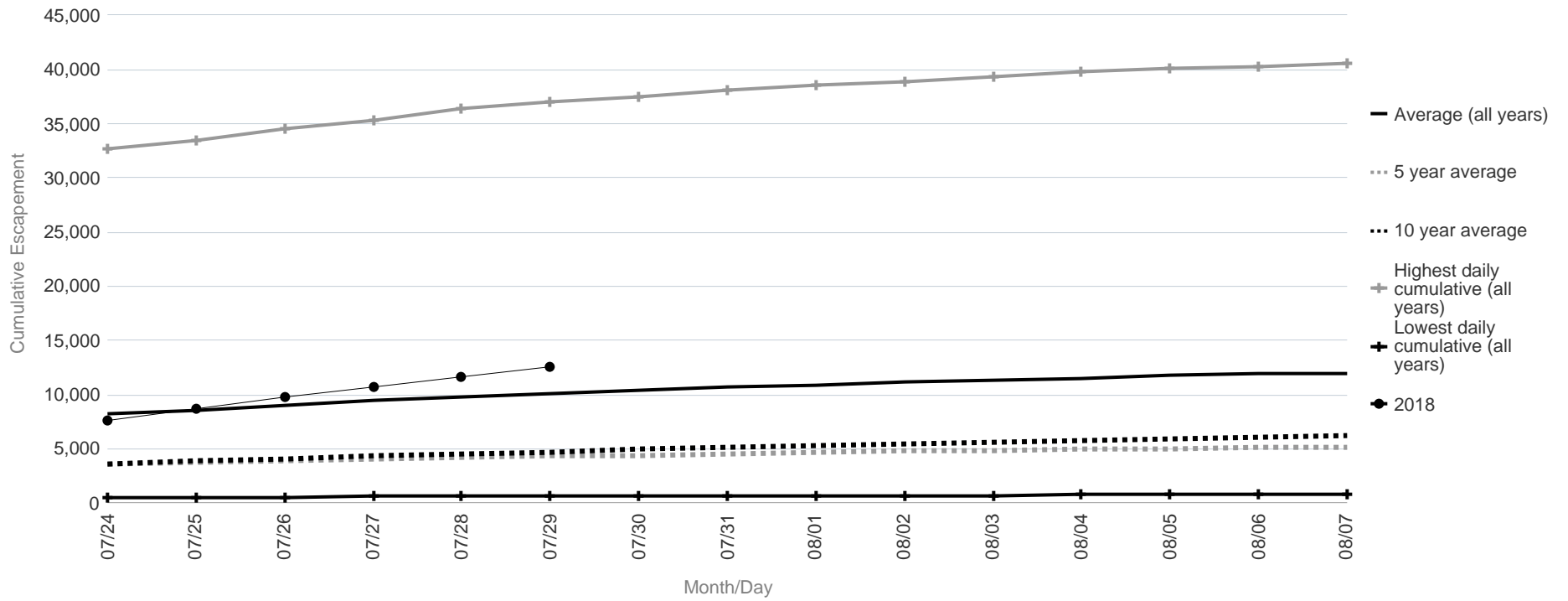


Salmon River (Aniak) Salmon Monitoring Project Passage of Chum Salmon

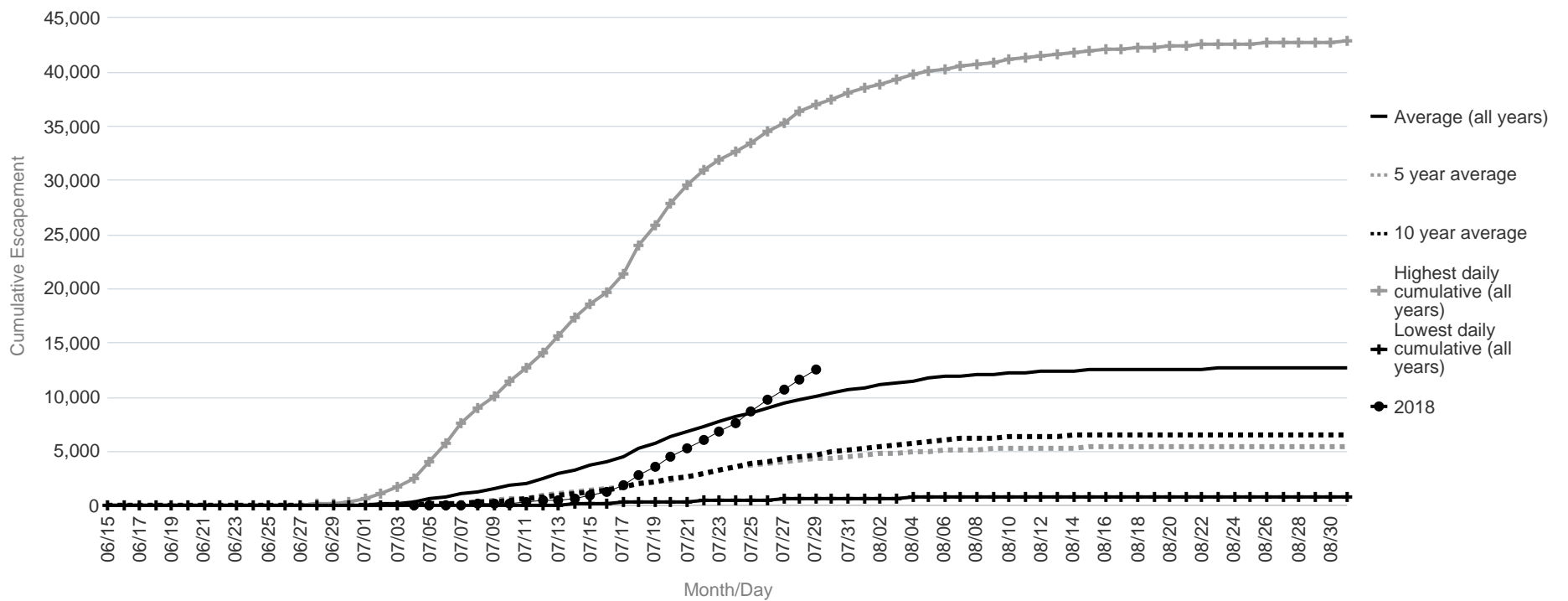
Date	Lowest daily cumulative (all years)	Average (all years)	5 year average	10 year average	Highest daily cumulative (all years)	2018
07/24	500	8,198	3,548	3,616	32,735	7,633
07/25	536	8,590	3,713	3,880	33,441	8,747
07/26	556	9,060	3,874	4,111	34,472	9,773
07/27	586	9,415	4,005	4,302	35,394	10,664
07/28	607	9,818	4,169	4,515	36,375	11,653
07/29	631	10,139	4,304	4,745	37,044	12,526
07/30	653	10,394	4,429	4,937	37,452	
07/31	668	10,669	4,556	5,138	38,050	
08/01	686	10,914	4,663	5,313	38,500	
08/02	699	11,153	4,747	5,471	38,954	
08/03	713	11,363	4,827	5,626	39,387	
08/04	726	11,555	4,923	5,773	39,784	
08/05	737	11,733	5,008	5,925	40,044	
08/06	748	11,874	5,074	6,051	40,282	
08/07	758	11,993	5,141	6,150	40,527	

	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

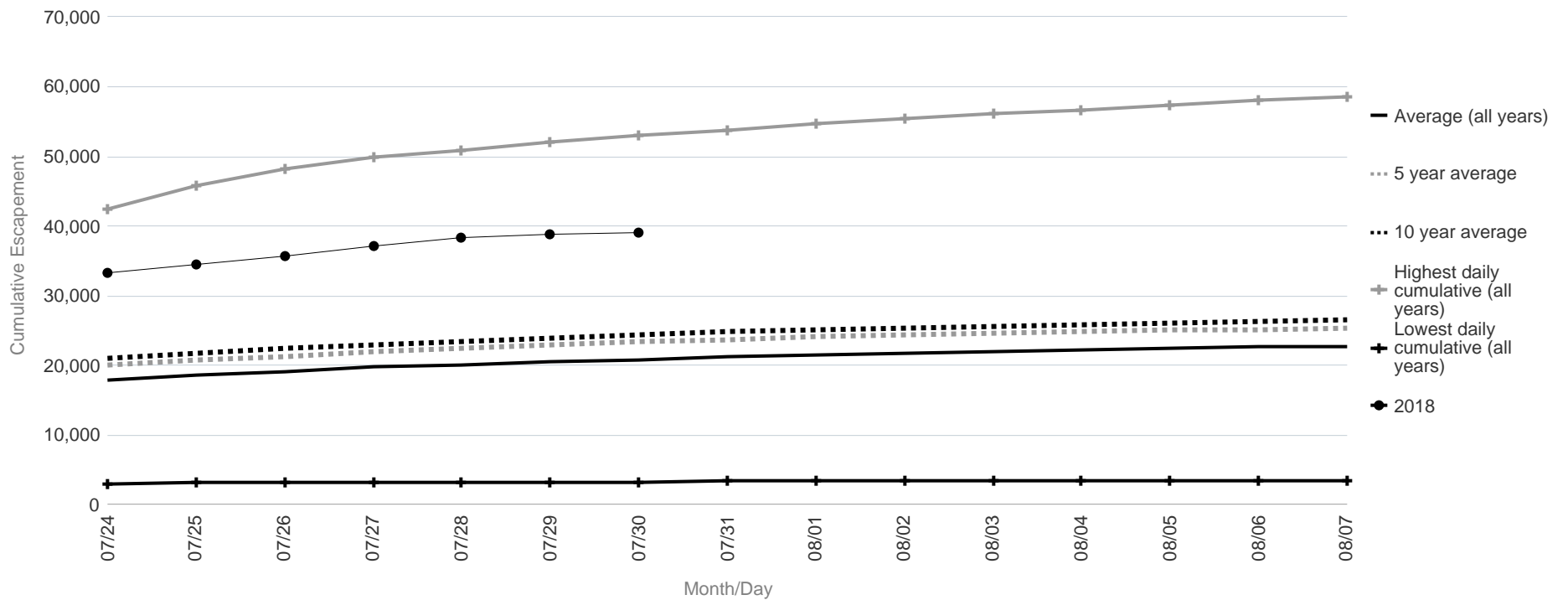


George River Salmon Monitoring Project Cumulative Daily Passage of Chum Salmon

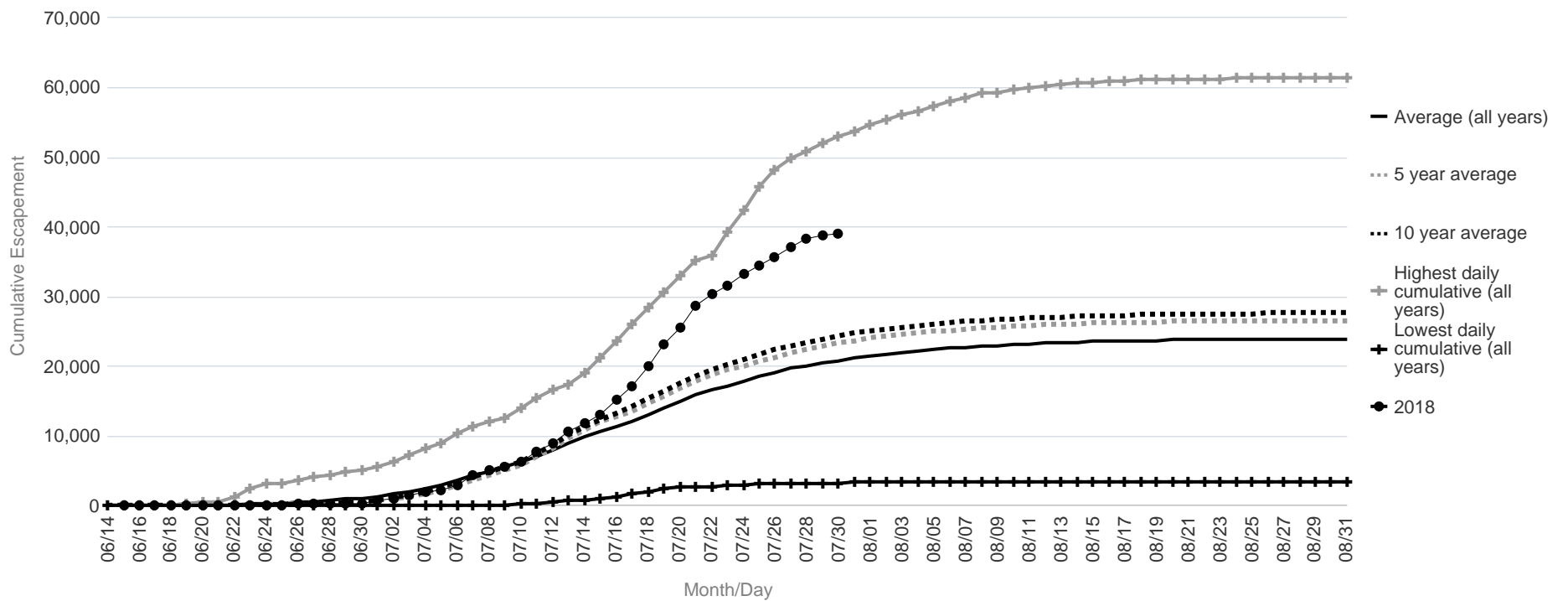
Date	Lowest daily cumulative (all years)	Average (all years)	5 year average	10 year average	Highest daily cumulative (all years)	2018
07/24	2,995	17,909	20,020	20,965	42,524	33,163
07/25	3,071	18,574	20,646	21,693	45,702	34,380
07/26	3,127	19,159	21,230	22,353	48,103	35,796
07/27	3,174	19,669	21,865	22,975	49,825	37,035
07/28	3,208	20,105	22,368	23,502	50,935	38,294
07/29	3,236	20,505	22,870	23,972	52,111	38,724
07/30	3,262	20,858	23,360	24,422	52,975	39,007
07/31	3,325	21,190	23,744	24,795	53,824	
08/01	3,355	21,475	24,029	25,118	54,662	
08/02	3,382	21,739	24,323	25,418	55,432	
08/03	3,404	21,972	24,557	25,661	56,153	
08/04	3,407	22,190	24,766	25,894	56,699	
08/05	3,428	22,383	24,980	26,075	57,297	
08/06	3,429	22,570	25,169	26,264	57,982	
08/07	3,432	22,749	25,342	26,438	58,603	

	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



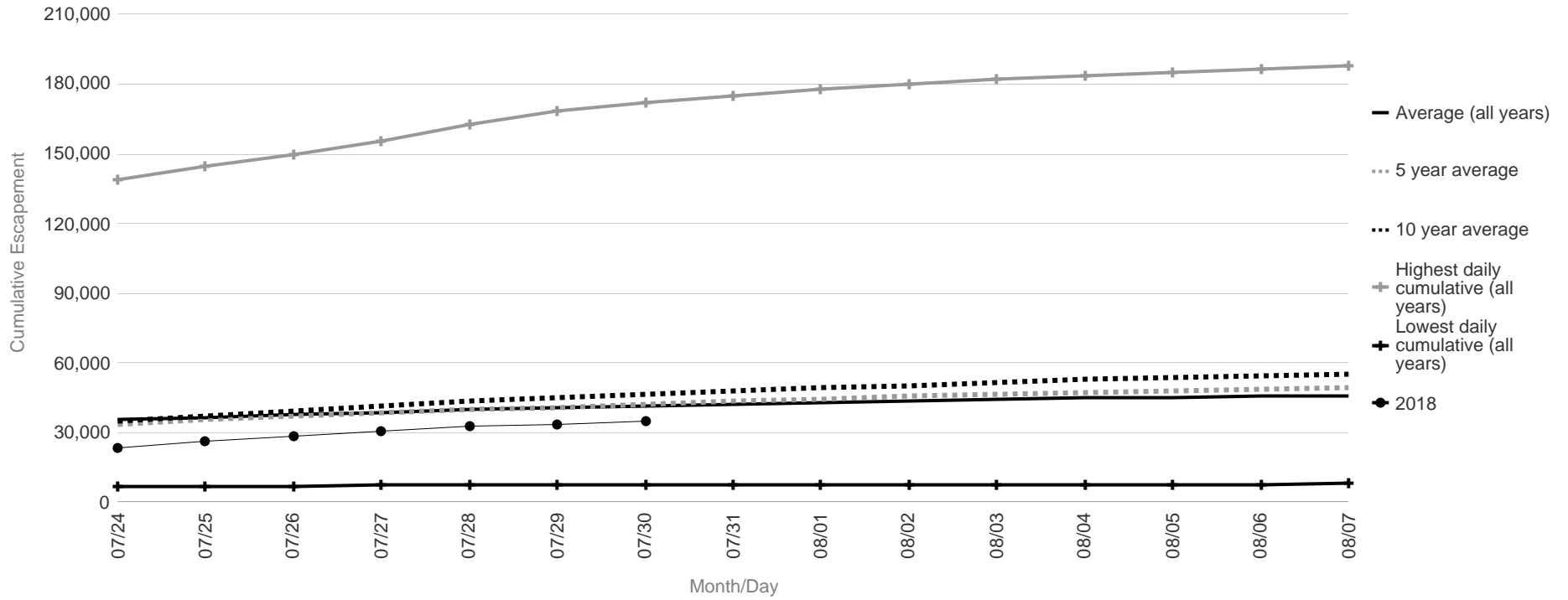
Kogrukluk River Salmon Monitoring Project Cumulative Daily Passage of Chum Salmon

Escapement Goal Range: 15,000 to 49,000

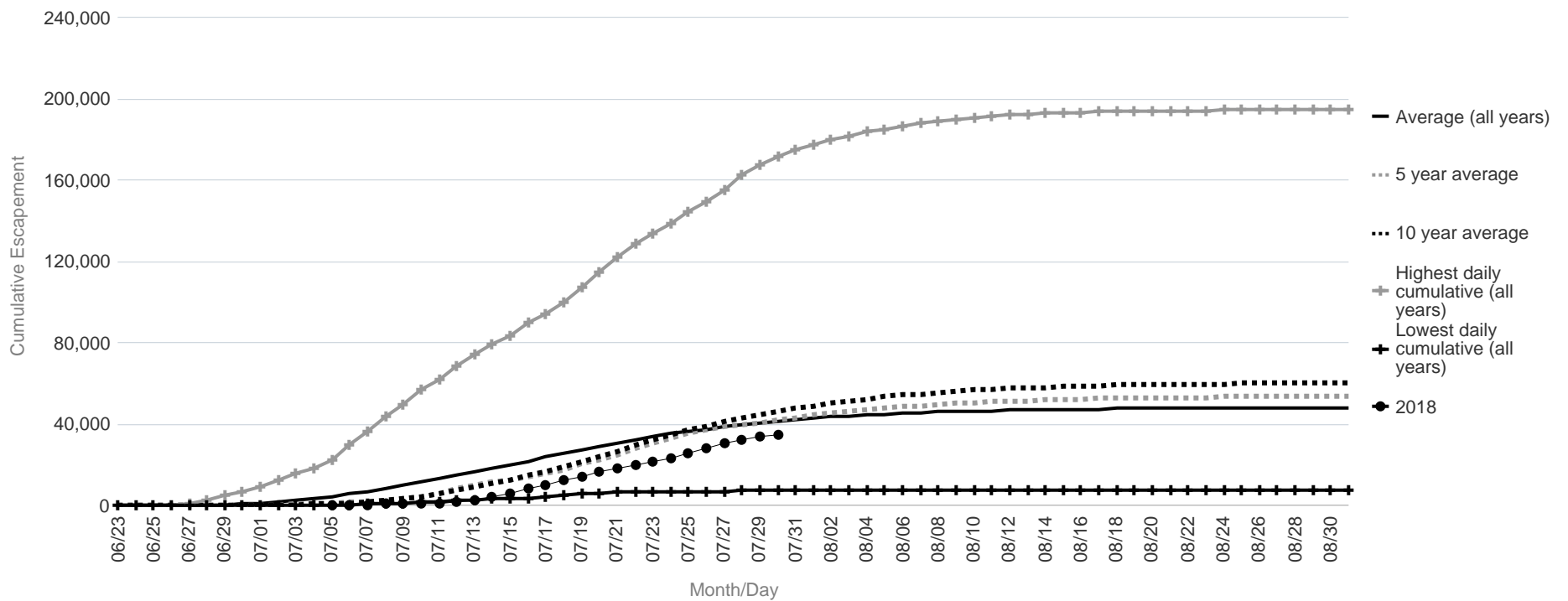
Date	Lowest daily cumulative (all years)	Average (all years)	5 year average	10 year average	Highest daily cumulative (all years)	2018
07/24	6,703	35,281	33,010	34,867	138,620	23,459
07/25	6,758	36,552	35,266	37,234	144,412	25,875
07/26	6,881	37,651	36,911	39,276	149,874	28,565
07/27	6,981	38,715	38,541	41,237	155,537	30,636
07/28	7,173	39,807	39,923	43,253	162,694	32,295
07/29	7,296	40,703	40,911	44,833	168,130	33,583
07/30	7,373	41,490	42,137	46,233	171,851	35,142
07/31	7,409	42,209	43,283	47,635	175,051	
08/01	7,457	42,879	44,540	49,059	177,728	
08/02	7,507	43,485	45,522	50,291	180,277	
08/03	7,563	44,048	46,394	51,467	182,100	
08/04	7,601	44,553	47,205	52,513	183,839	
08/05	7,634	45,008	47,936	53,495	185,249	
08/06	7,676	45,387	48,619	54,326	186,767	
08/07	7,708	45,695	49,219	55,013	187,962	

	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

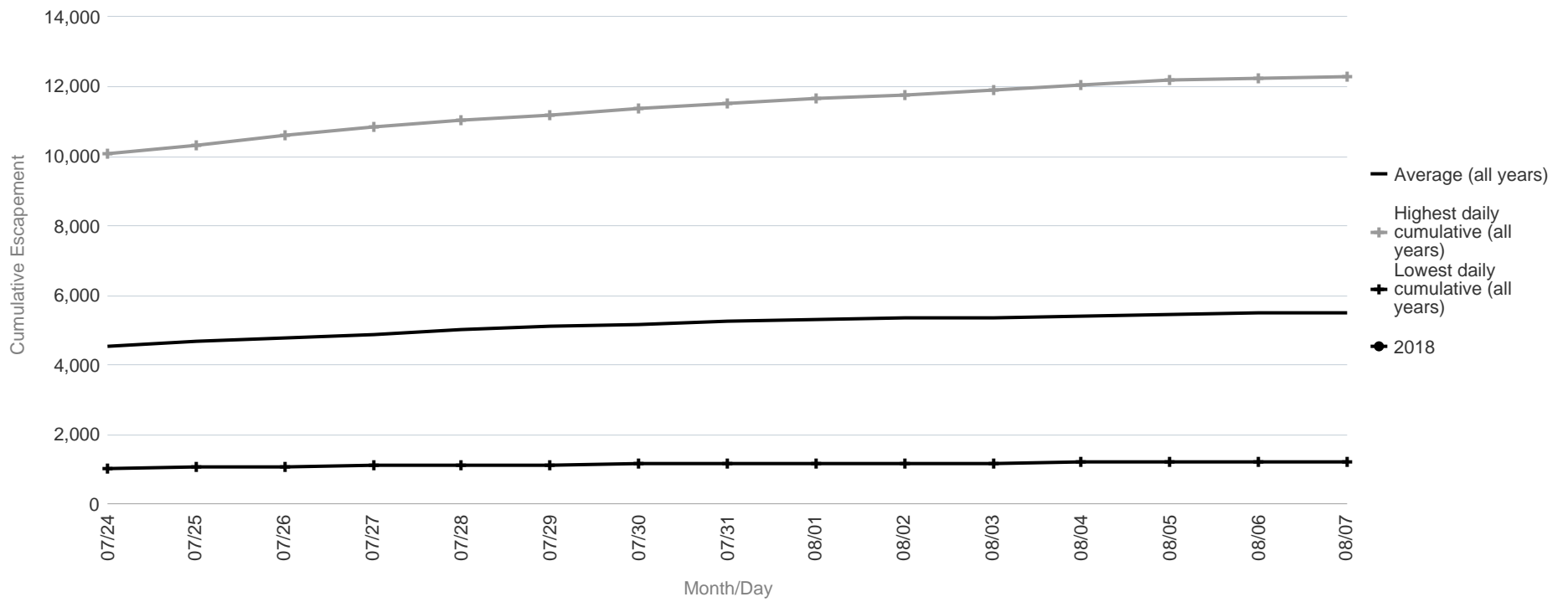


Takotna River Salmon Monitoring Project Passage of Chum Salmon

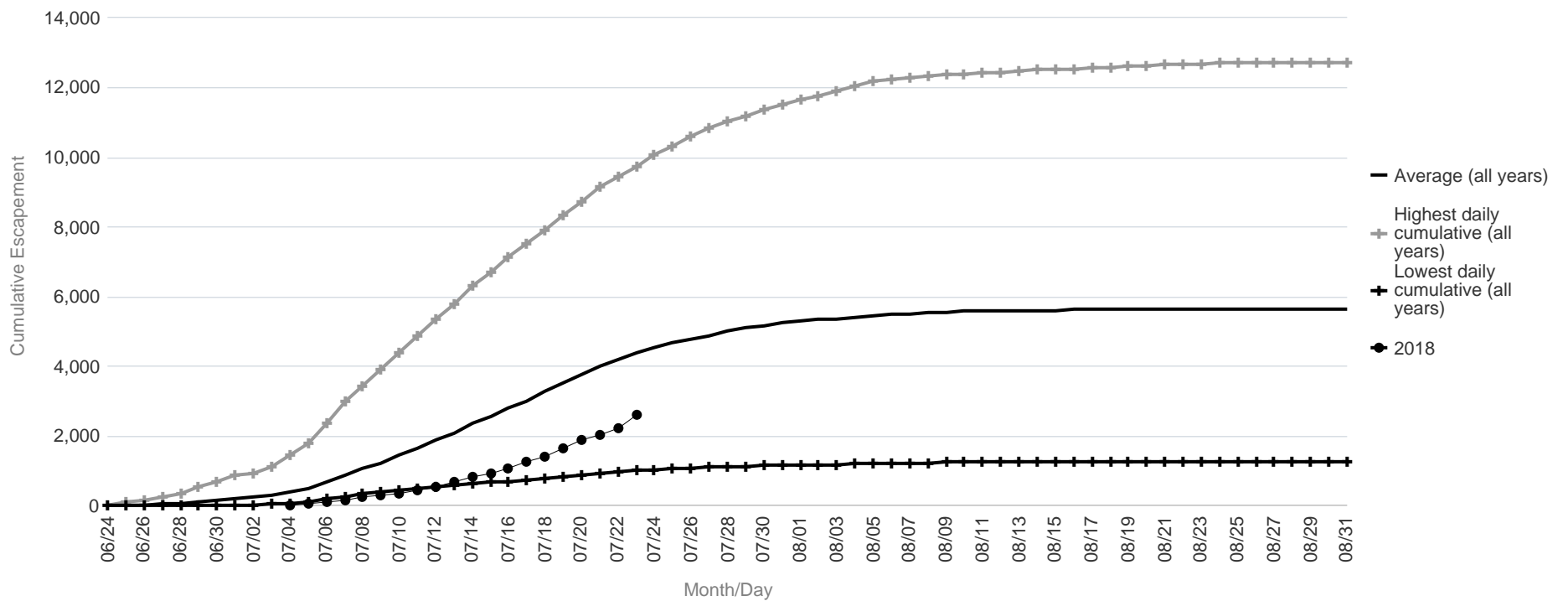
Date	Lowest daily cumulative (all years)	Average (all years)	Highest daily cumulative (all years)	2018
07/24	1,042	4,535	10,069	
07/25	1,067	4,663	10,337	
07/26	1,087	4,787	10,591	
07/27	1,101	4,894	10,839	
07/28	1,112	5,006	11,055	
07/29	1,130	5,092	11,188	
07/30	1,142	5,165	11,351	
07/31	1,152	5,236	11,507	
08/01	1,155	5,285	11,642	
08/02	1,167	5,332	11,773	
08/03	1,169	5,374	11,921	
08/04	1,191	5,418	12,052	
08/05	1,213	5,459	12,183	
08/06	1,224	5,492	12,245	
08/07	1,229	5,516	12,299	

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

Focused Two-Week Data View



Season Total Overview

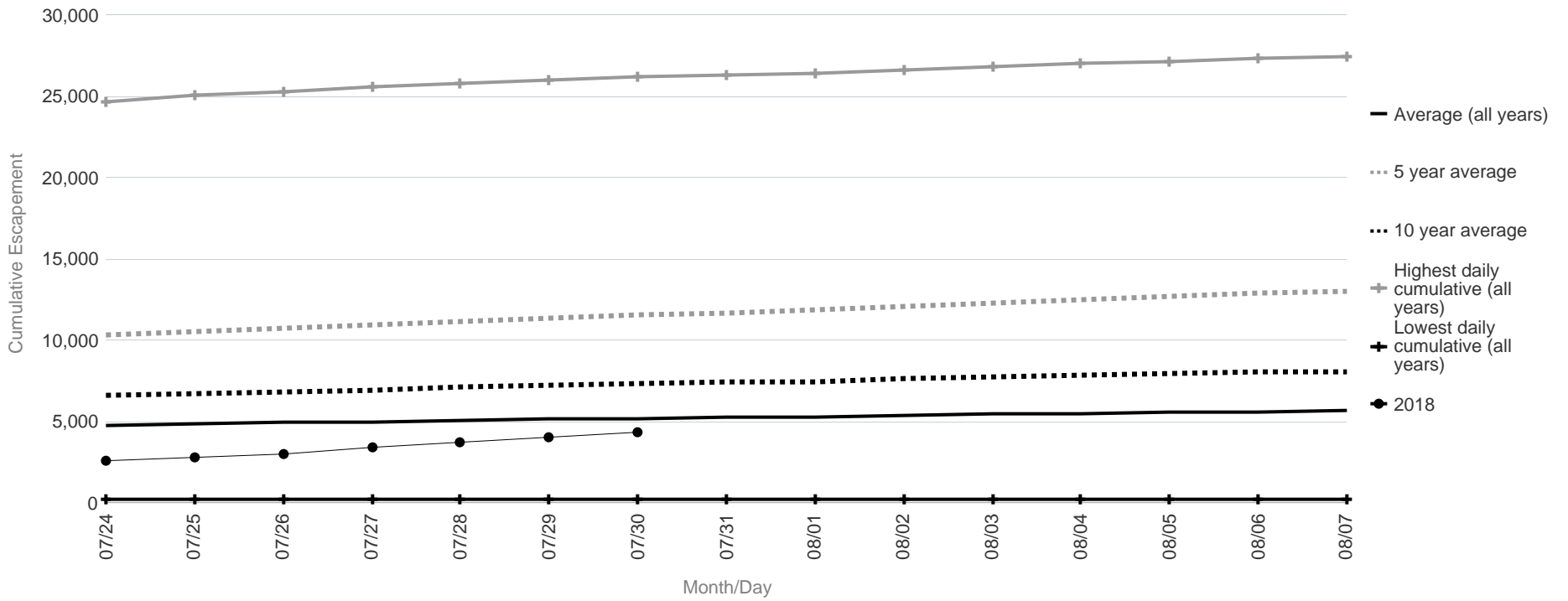


Kwethluk River Salmon Monitoring Project Cumulative Daily Passage of Sockeye Salmon

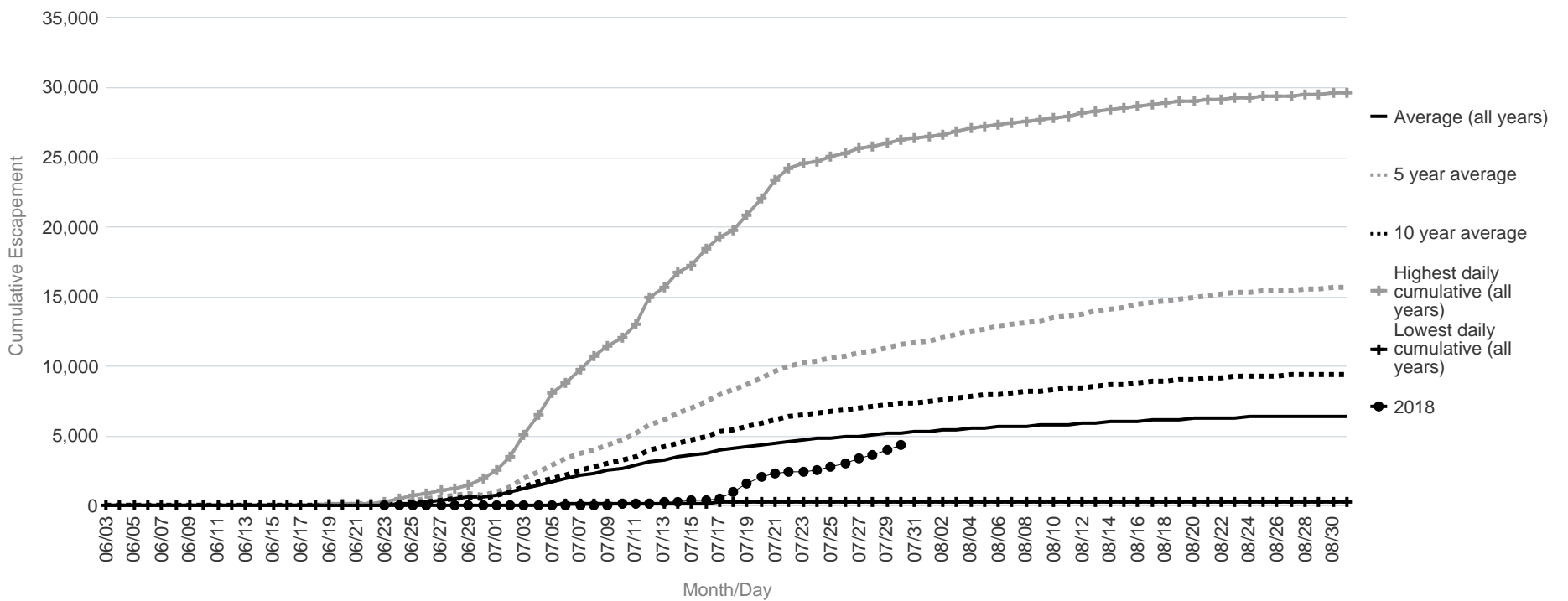
Date	Lowest daily cumulative (all years)	Average (all years)	5 year average	10 year average	Highest daily cumulative (all years)	2018
07/24	228	4,785	10,336	6,619	24,676	2,606
07/25	228	4,874	10,586	6,763	25,060	2,760
07/26	233	4,935	10,744	6,856	25,333	3,059
07/27	233	5,011	10,946	6,980	25,604	3,436
07/28	234	5,078	11,143	7,093	25,779	3,681
07/29	236	5,143	11,326	7,205	25,982	4,045
07/30	238	5,207	11,531	7,316	26,211	4,370
07/31	240	5,258	11,682	7,397	26,339	
08/01	243	5,316	11,866	7,498	26,473	
08/02	244	5,383	12,074	7,610	26,669	
08/03	247	5,447	12,280	7,718	26,860	
08/04	249	5,509	12,486	7,826	27,068	
08/05	251	5,565	12,661	7,917	27,202	
08/06	254	5,628	12,866	8,022	27,330	
08/07	257	5,678	13,035	8,108	27,462	

	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

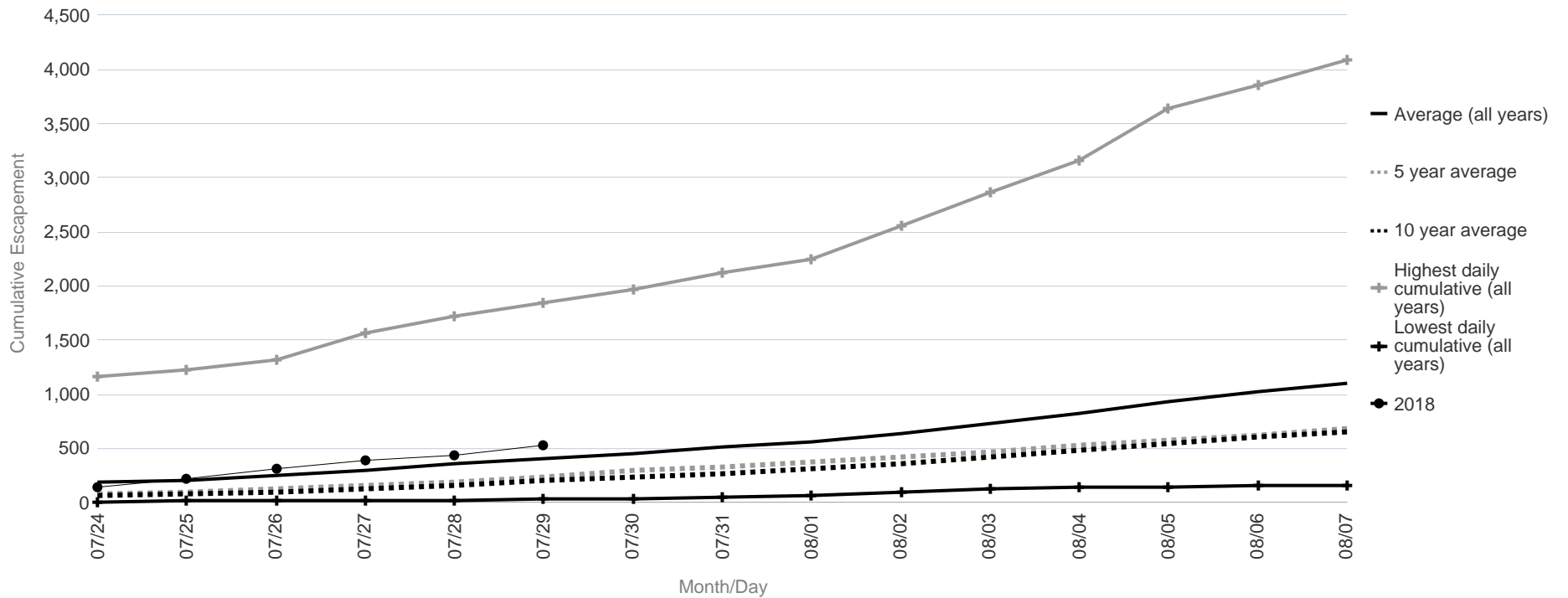


Salmon River (Aniak) Salmon Monitoring Project Passage of Sockeye Salmon

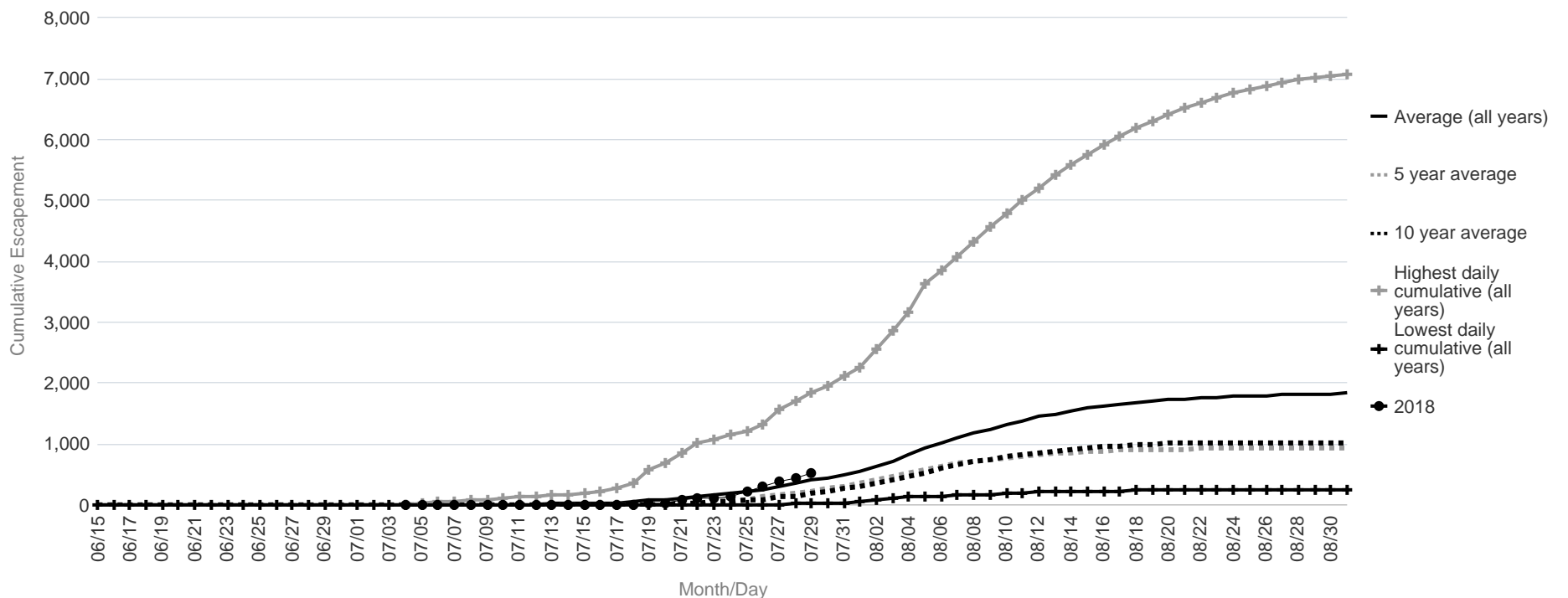
Date	Lowest daily cumulative (all years)	Average (all years)	5 year average	10 year average	Highest daily cumulative (all years)	2018
07/24	10	194	84	66	1,161	144
07/25	11	211	95	77	1,224	224
07/26	12	247	129	101	1,316	306
07/27	18	302	164	129	1,560	397
07/28	20	351	194	153	1,717	438
07/29	29	406	234	198	1,839	534
07/30	35	456	292	237	1,968	
07/31	45	508	321	269	2,121	
08/01	66	561	372	311	2,253	
08/02	96	636	414	354	2,552	
08/03	124	727	460	418	2,861	
08/04	138	818	527	483	3,167	
08/05	148	939	576	538	3,634	
08/06	155	1,021	627	600	3,859	
08/07	165	1,100	686	658	4,084	

	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



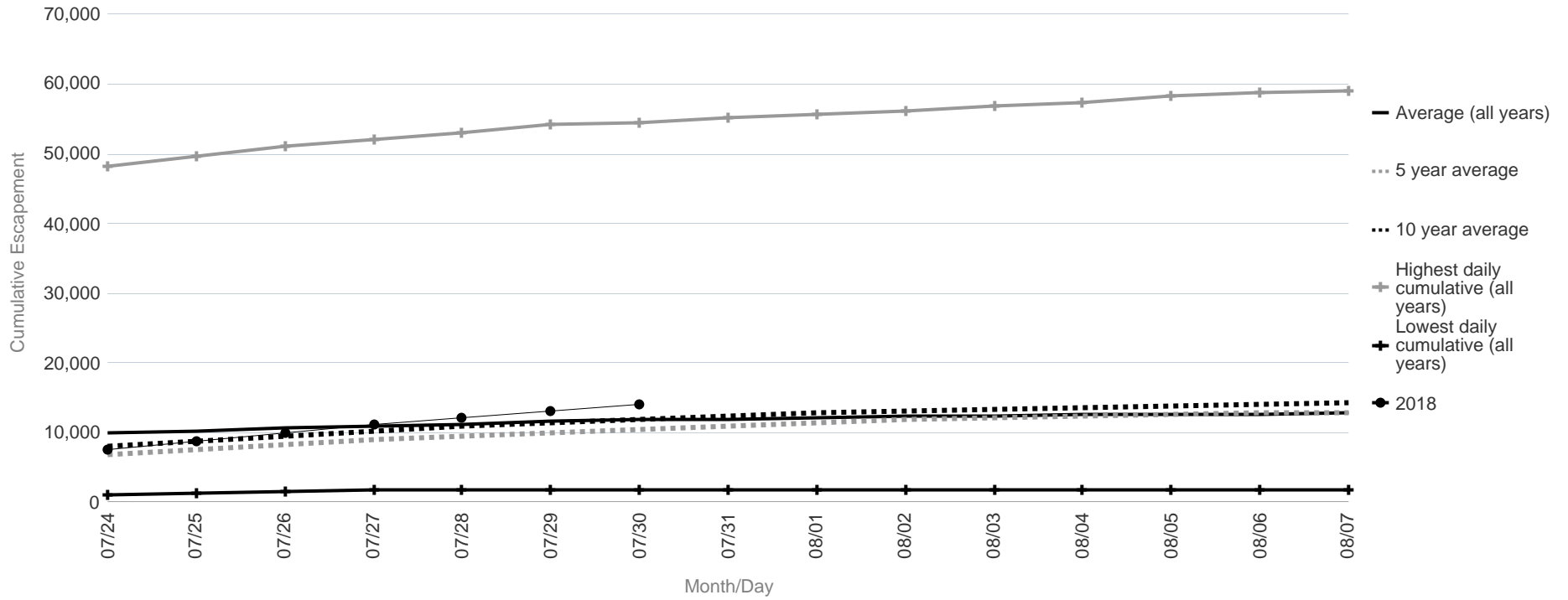
Kogrukluk River Salmon Monitoring Project Cumulative Daily Passage of Sockeye Salmon

Escapement Goal Range: 4,400 to 17,000

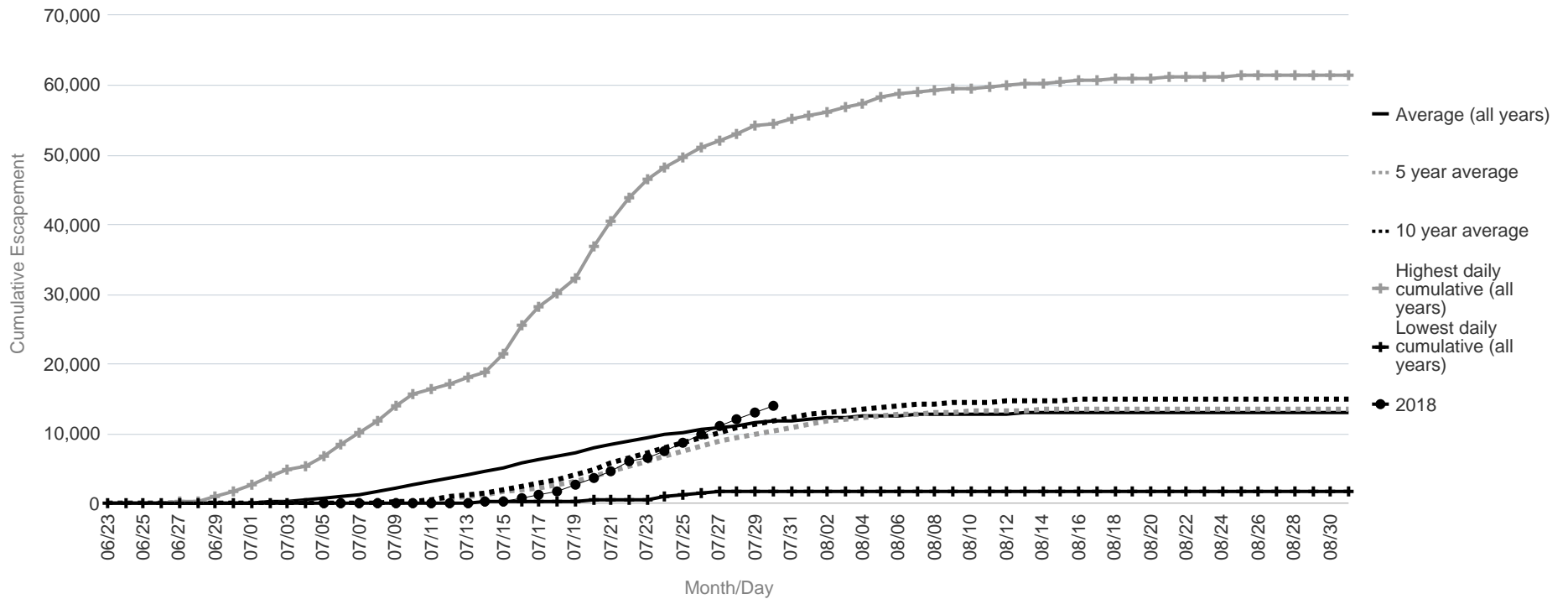
Date	Lowest daily cumulative (all years)	Average (all years)	5 year average	10 year average	Highest daily cumulative (all years)	2018
07/24	1,100	9,811	6,715	7,896	48,302	7,526
07/25	1,365	10,184	7,442	8,603	49,672	8,732
07/26	1,582	10,559	8,167	9,395	51,054	9,978
07/27	1,605	10,912	8,898	10,149	52,086	11,108
07/28	1,620	11,223	9,546	10,820	52,945	12,065
07/29	1,631	11,502	9,984	11,384	54,109	12,929
07/30	1,639	11,724	10,489	11,856	54,579	13,957
07/31	1,651	11,911	10,961	12,291	55,213	
08/01	1,661	12,085	11,469	12,733	55,650	
08/02	1,670	12,216	11,767	13,026	56,122	
08/03	1,678	12,347	12,100	13,338	56,769	
08/04	1,685	12,458	12,338	13,576	57,465	
08/05	1,691	12,563	12,539	13,798	58,245	
08/06	1,696	12,650	12,742	14,003	58,758	
08/07	1,701	12,711	12,880	14,147	59,047	

	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

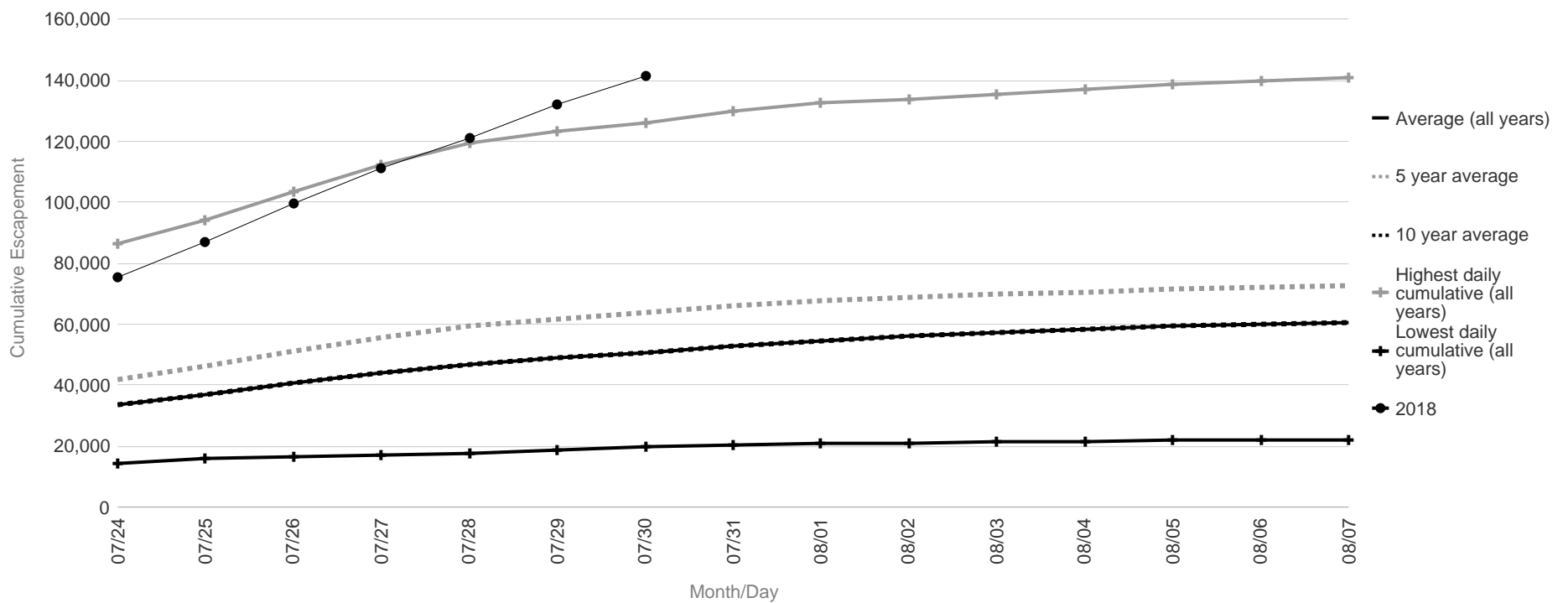


Telaquana River Salmon Monitoring Project Passage of Sockeye Salmon

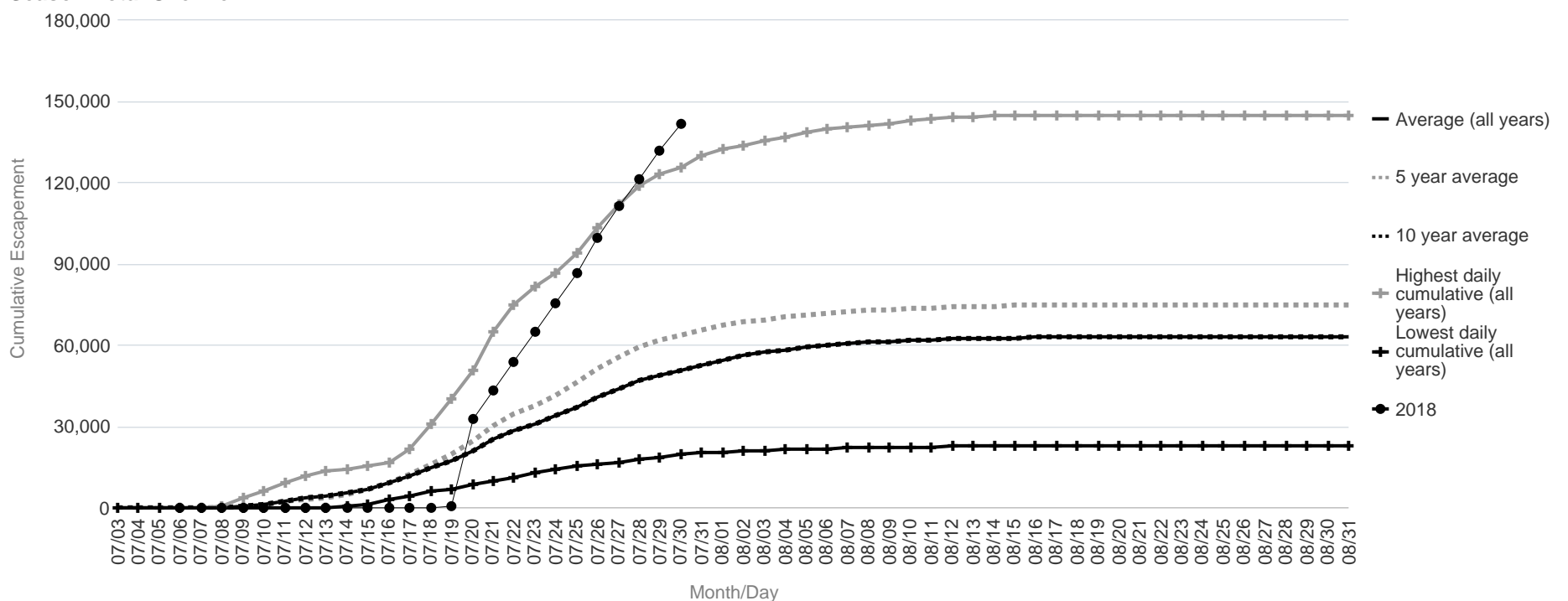
Date	Lowest daily cumulative (all years)	Average (all years)	5 year average	10 year average	Highest daily cumulative (all years)	2018
07/24	14,622	33,894	41,716	33,894	86,741	75,528
07/25	15,784	37,188	46,293	37,188	94,165	86,987
07/26	16,443	40,868	51,382	40,868	103,339	99,936
07/27	16,969	44,206	55,814	44,206	112,136	111,500
07/28	17,964	46,982	59,332	46,982	119,269	121,406
07/29	18,844	49,098	61,844	49,098	123,368	131,925
07/30	19,887	50,982	64,010	50,982	125,890	141,602
07/31	20,309	52,944	65,947	52,944	130,000	
08/01	20,778	54,698	67,543	54,698	132,698	
08/02	21,143	56,151	68,683	56,151	134,099	
08/03	21,385	57,414	69,742	57,414	135,588	
08/04	21,648	58,488	70,654	58,488	137,035	
08/05	21,951	59,455	71,497	59,455	138,886	
08/06	22,076	60,099	72,090	60,099	139,967	
08/07	22,246	60,697	72,548	60,697	140,767	

	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

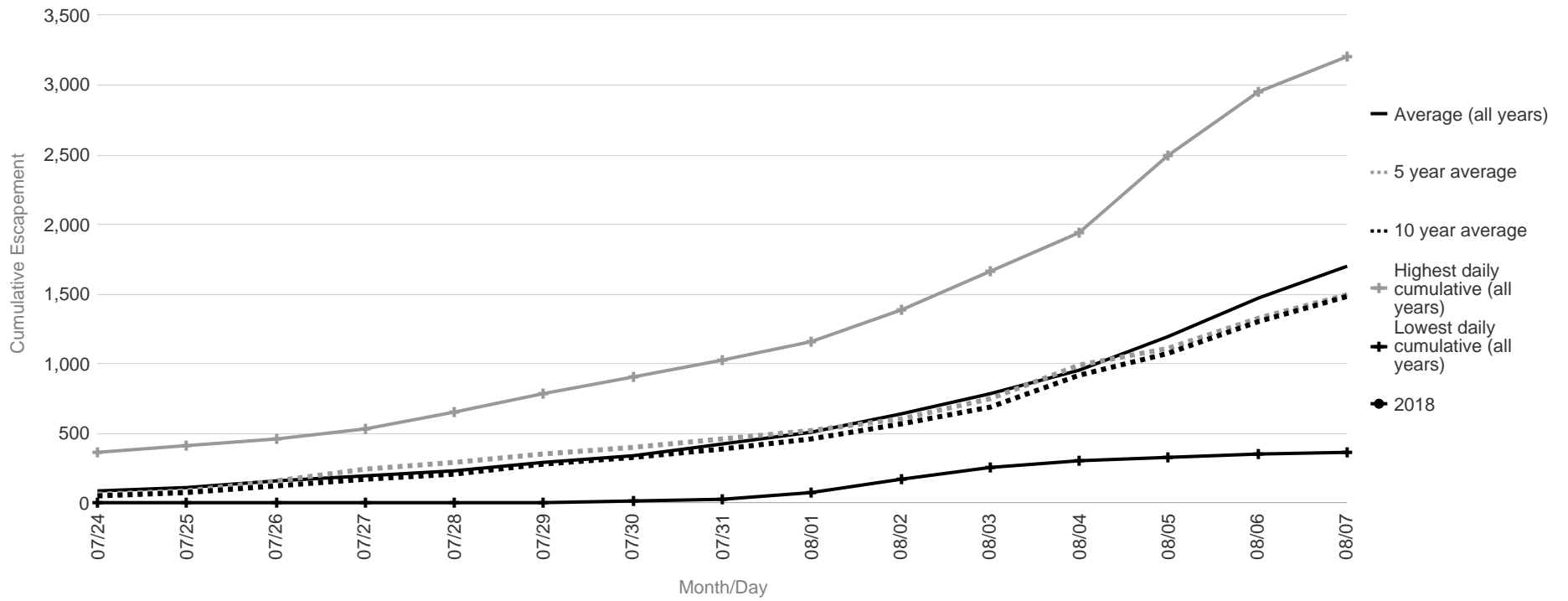


Kwethluk River Salmon Monitoring Project Cumulative Daily Passage of Coho Salmon

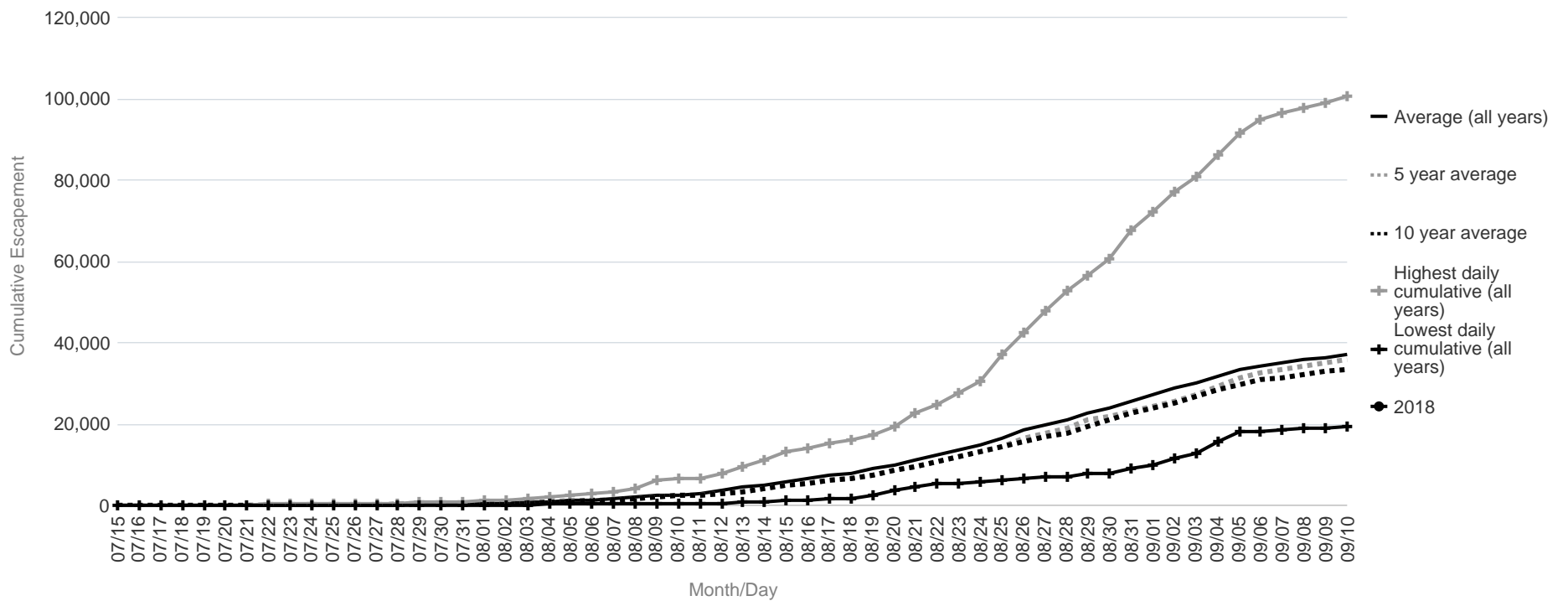
Date	Lowest daily cumulative (all years)	Average (all years)	5 year average	10 year average	Highest daily cumulative (all years)	2018
07/24	0	85	60	49	358	
07/25	0	113	91	72	406	
07/26	0	154	164	120	456	
07/27	0	199	244	175	533	
07/28	0	236	295	211	656	
07/29	0	289	346	278	779	
07/30	11	340	397	333	899	
07/31	31	424	458	393	1,024	
08/01	74	507	516	460	1,163	
08/02	170	635	606	573	1,390	
08/03	251	781	752	688	1,658	
08/04	308	958	993	916	1,942	
08/05	329	1,188	1,113	1,069	2,495	
08/06	351	1,469	1,327	1,297	2,948	
08/07	362	1,695	1,489	1,488	3,201	

	Lowest Count	Average Count	5 Year Average	10 Year Average	Highest Count
Season Total	19,473	37,858	35,939	33,516	107,789

Focused Two-Week Data View



Season Total Overview

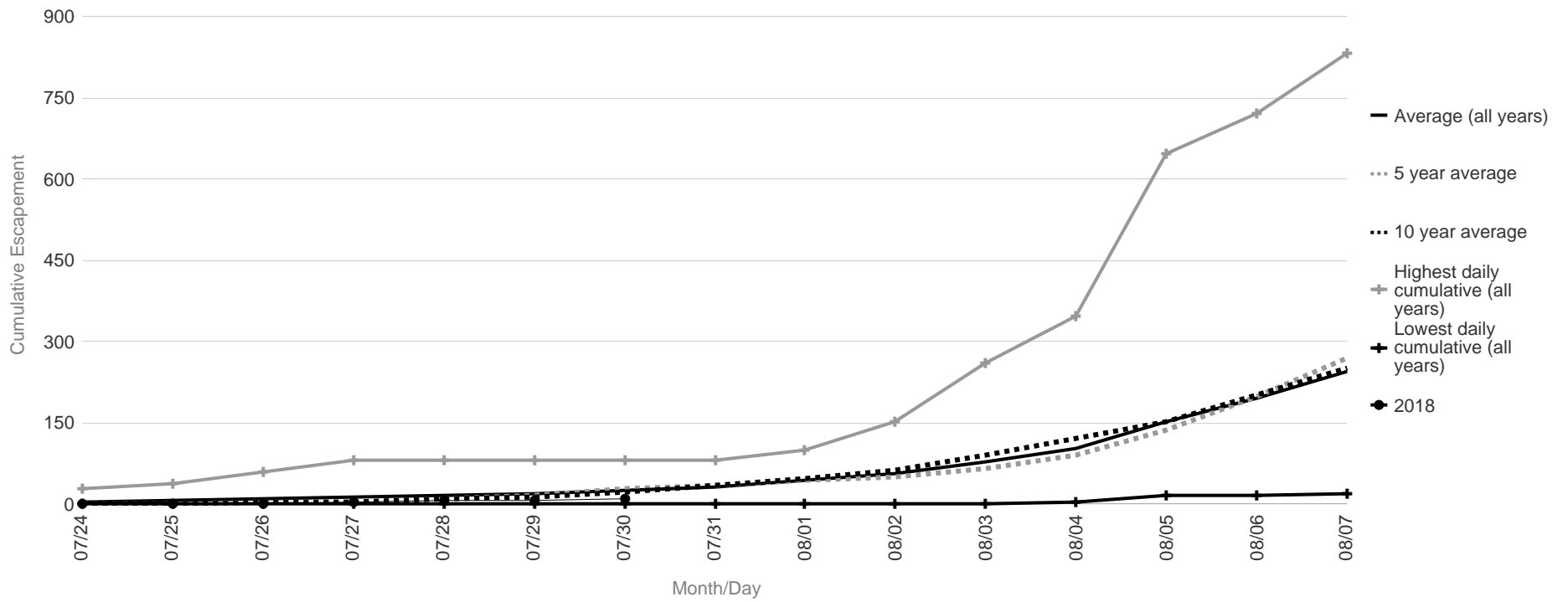


George River Salmon Monitoring Project Cumulative Daily Passage of Coho Salmon

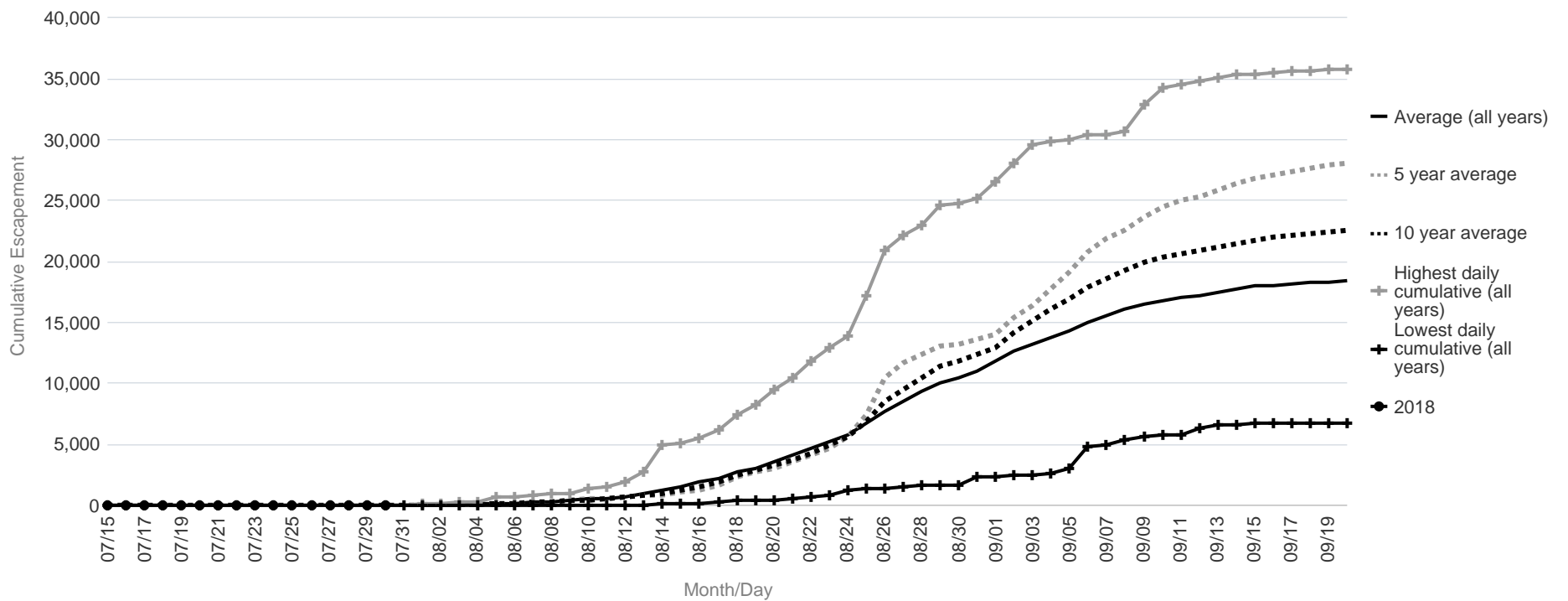
Date	Lowest daily cumulative (all years)	Average (all years)	5 year average	10 year average	Highest daily cumulative (all years)	2018
07/24	0	3	0	0	28	0
07/25	0	5	2	1	39	0
07/26	0	9	3	2	58	2
07/27	0	12	5	4	80	3
07/28	0	15	10	9	80	6
07/29	0	19	16	14	80	6
07/30	1	25	28	23	80	9
07/31	1	33	33	33	80	
08/01	1	43	43	46	99	
08/02	2	58	51	64	152	
08/03	2	77	66	90	261	
08/04	3	103	89	120	347	
08/05	15	153	136	154	647	
08/06	15	195	200	202	723	
08/07	18	244	270	250	833	

	Lowest Count	Average Count	5 Year Average	10 Year Average	Highest Count
Season Total	6,759	18,461	28,069	22,548	35,812

Focused Two-Week Data View



Season Total Overview



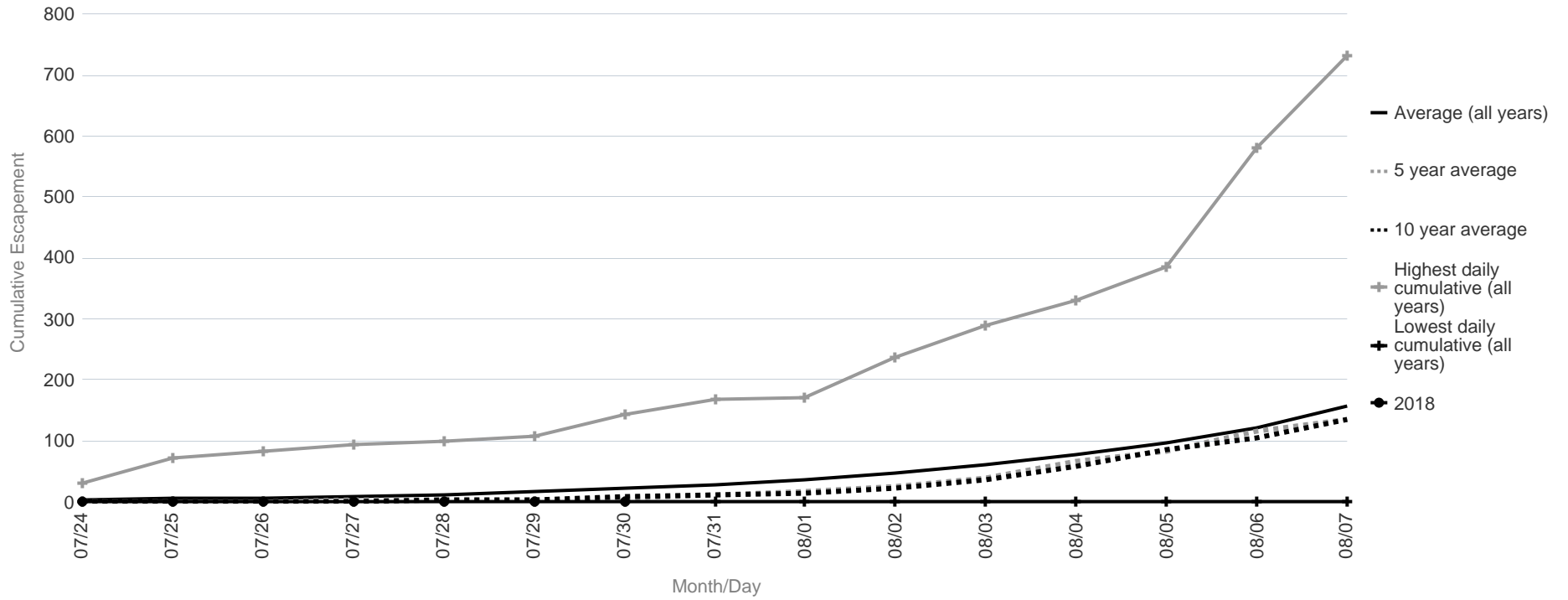
Kogrukluk River Salmon Monitoring Project Cumulative Daily Passage of Coho Salmon

Escapement Goal Range: 13,000 to 28,000

Date	Lowest daily cumulative (all years)	Average (all years)	5 year average	10 year average	Highest daily cumulative (all years)	2018
07/24	0	3	0	0	32	0
07/25	0	6	0	0	73	0
07/26	0	7	1	1	83	0
07/27	0	9	2	1	93	0
07/28	0	12	3	2	100	0
07/29	0	16	4	5	109	0
07/30	0	24	7	8	143	1
07/31	0	29	10	11	169	1
08/01	0	37	17	15	171	
08/02	0	47	24	22	237	
08/03	0	62	40	37	289	
08/04	0	77	67	58	330	
08/05	0	97	82	87	386	
08/06	0	121	115	104	581	
08/07	0	158	134	136	732	

	Lowest Count	Average Count	5 Year Average	10 Year Average	Highest Count
Season Total	3,446	23,645	35,558	26,014	74,915

Focused Two-Week Data View



Season Total Overview

