

Meeting Agenda

Date: 08/28/2019

Time: 10:00am

Place: ADF&G Office, Bethel

Time Called to Order:

Chair: Alissa N. Rogers

ROLL CALL TO ESTABLISH QUORUM:

QUORUM MET? Yes / No

Upriver Elder:

Downriver Elder:

Commercial Fisher:

Lower River Subsistence:

Middle River Subsistence:

Upper River Subsistence:

Headwaters Subsistence:

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: *Non-Working Group Members*

CONTINUING BUSINESS:

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

OLD BUSINESS:

NEW BUSINESS:

COMMENTS FROM WORKING GROUP MEMBERS:

NEXT MEETING DATE: _____ **Time:** _____ **Place:** _____

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.

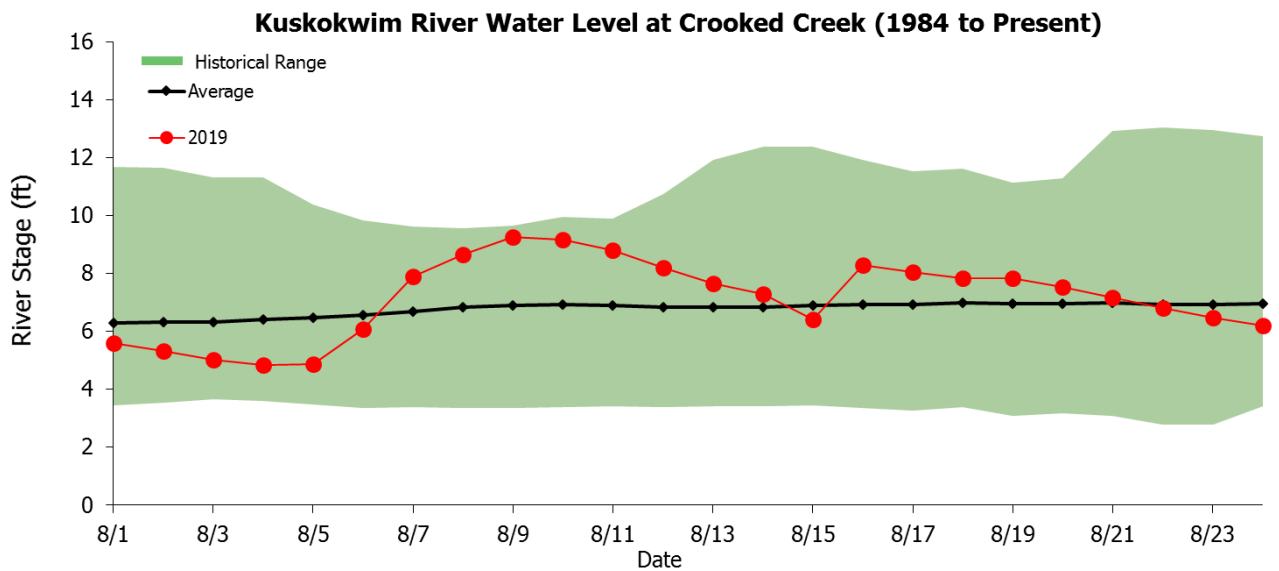
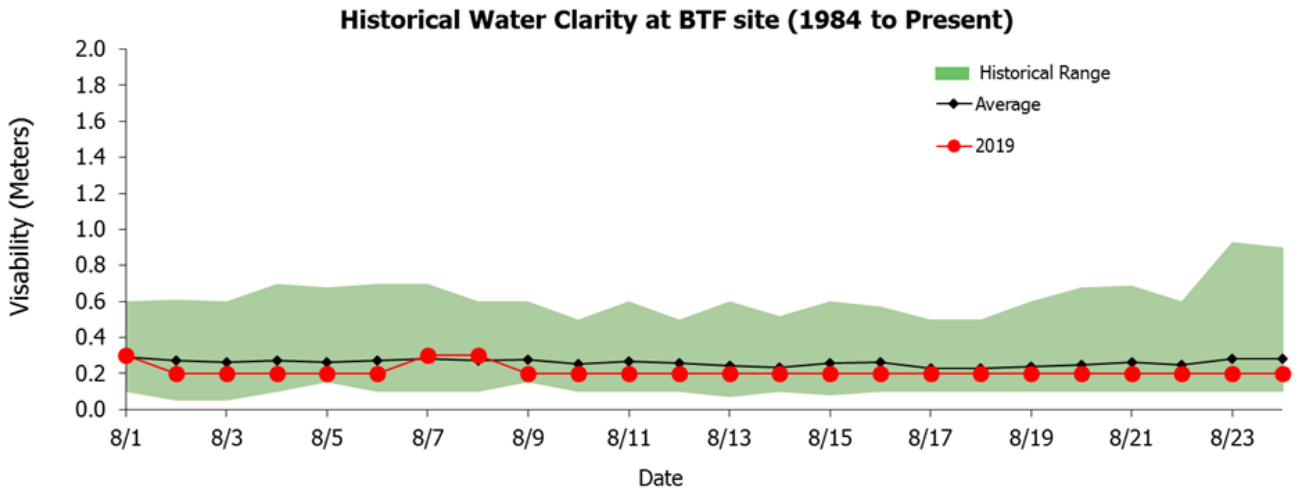
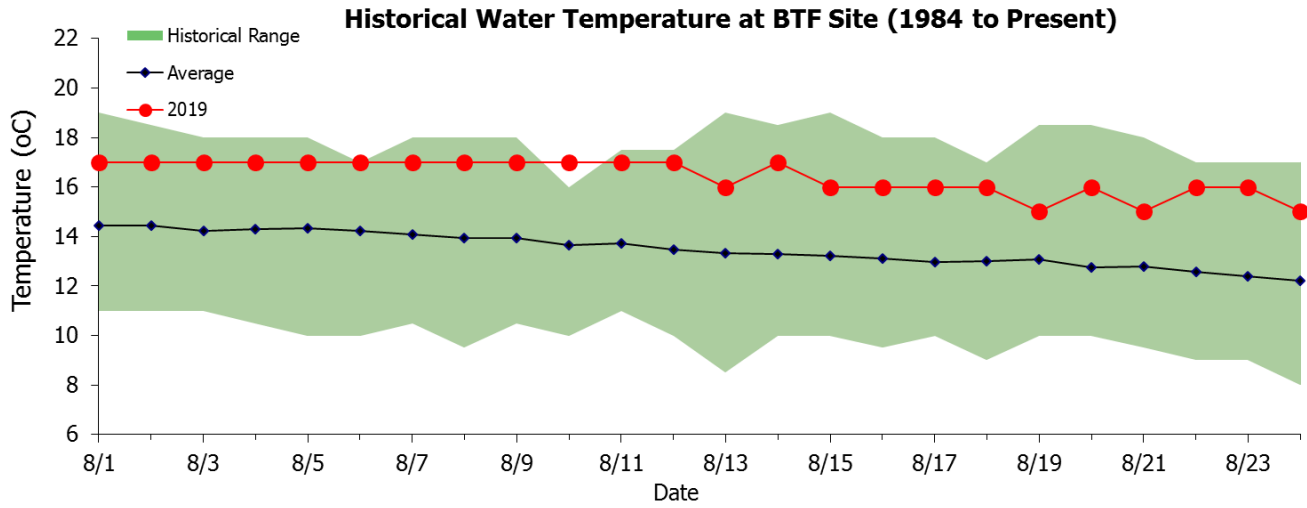
Misuse of Packet information can contribute to misunderstandings that can **cause harm to salmon users** and potentially **damage salmon resources**.

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.
Lily Reichard
Working Group Coordinator



Kuskokwim River Salmon Assessment Update

8/24/2019



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 Gary Decossas (USFWS; gary_decossas@fws.gov) or Nick Smith (ADF&G; nick.smith@alaska.gov). Major credit for the development of this data packet belongs to Ben Staton.

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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 Fisheries Commission
- OTNC: Orutsaramiut Traditional Native Council
- USFWS: United States Fish and Wildlife Service
- YDNWR: Yukon Delta National Wildlife Refuge

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

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

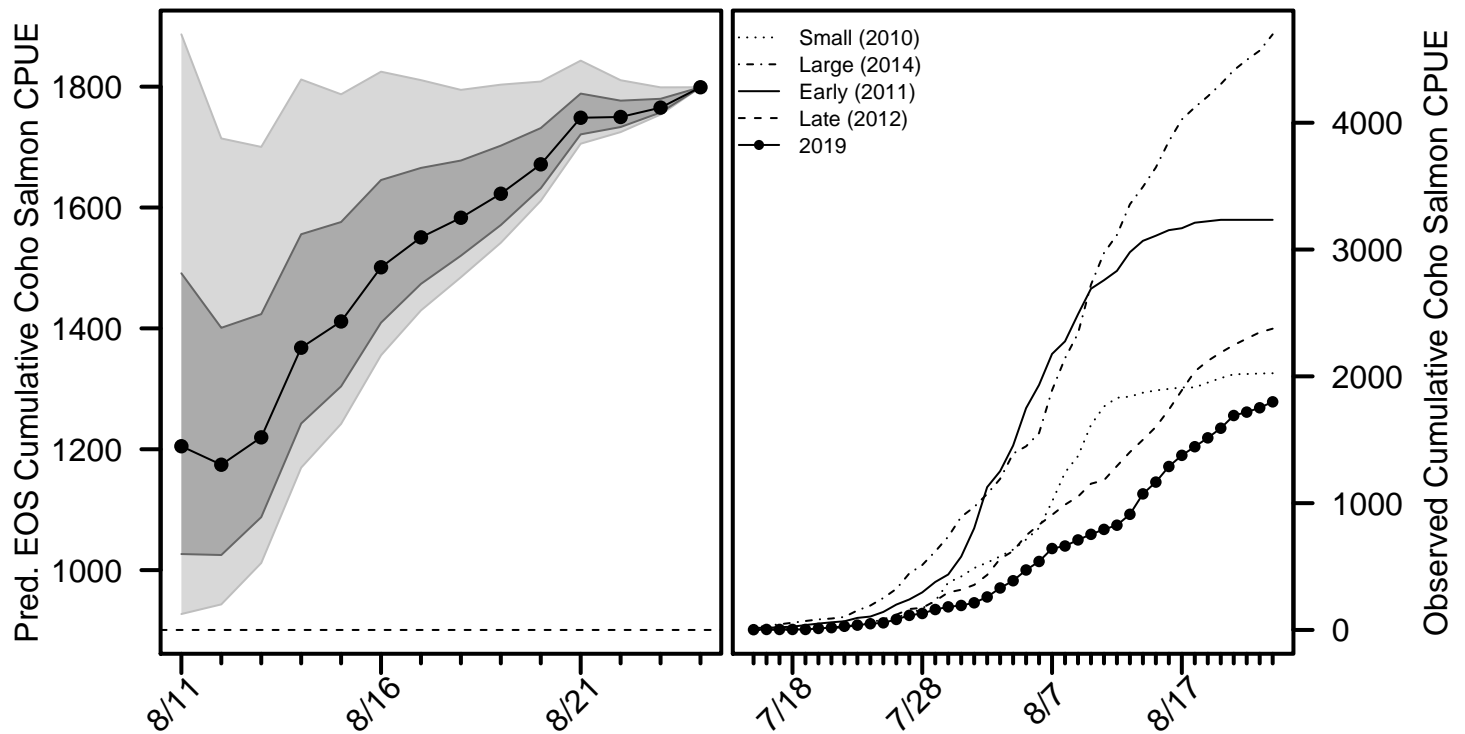
For the most up-to-date information regarding fishing opportunities please visit:

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

Coho Salmon BTF Summary (8/24)

- The BTF daily CPUE was **47**.
- The BTF cumulative CPUE is now **1,799**.
- **9%** years since 2008 fell below this cumulative CPUE on this date.
- **100%** of the run is complete based on historical average run timing.
- **100% - 100%** of the run is complete based the central 50% of all historical run timing scenarios.
- **0%** of the run is expected to pass Bethel in the next 0 days.
- Over the last 3 days, coho salmon made up **80%** of the BTF catches, compared to **99%** on average.

Coho 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 2018. *Right:* The cumulative BTF CPUE from 2019 plotted along with four previous years intended to represent a range of early/late and small/large index values.

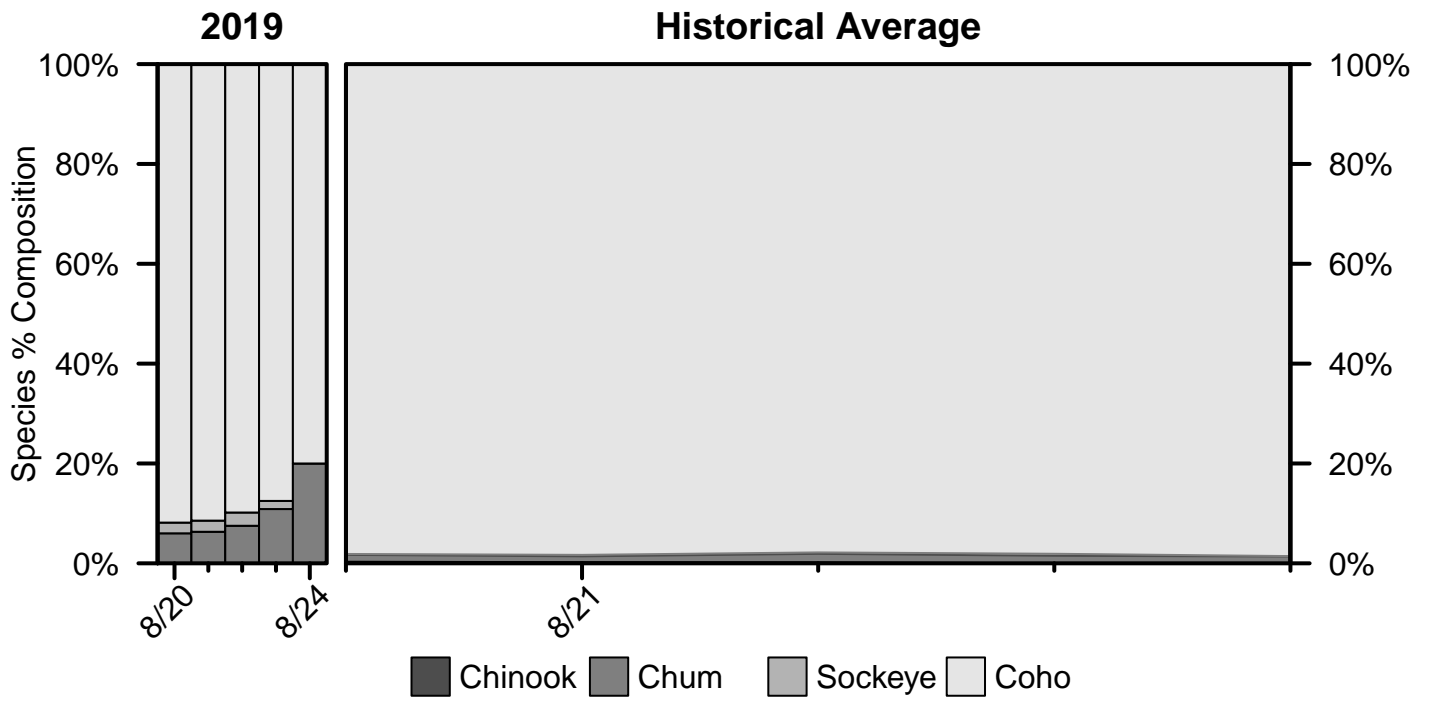


For more detailed information, see the [coho salmon appendix](#) at the end of this document.

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Percent Composition by Salmon Species

Percent Composition Figure 1. Species percent composition in the BTF from 2019 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 **0** (cumulative: **850**).
- If the run ended on 8/24, 50% of the run would have passed BTF on **6/21**, which is **2 days earlier** than average.
- The sonar project ended on 7/26 with a cumulative passage estimate of **163,600 (139,300 - 187,900)**.
- The table below shows cumulative CPUE from the BTF from 2019 and in previous years.

Date	2019	2018	2017	2016	2015	5-Yr Avg.	2008 - 2018 Avg.
8/21	850	667	373	687	625	600	550
8/22	850	667	373	687	625	600	550
8/23	850	667	374	687	625	601	550
8/24	850	667	374	687	625	601	550
EOS		667	374	687	625	601	550

Chum Salmon Summary

- The BTF daily CPUE was **14** (cumulative: **4,990**).
- If the run ended on 8/24, 50% of the run would have passed BTF on **7/18**, which is **13 days later** than average.
- The sonar project ended on 7/26 with a cumulative passage estimate of **405,700 (335,600 - 475,800)**.
- The table below shows cumulative CPUE from the BTF from 2019 and in previous years.

Date	2019	2018	2017	2016	2015	5-Yr Avg.	2008 - 2018 Avg.
8/21	4,963	8,212	6,775	3,889	2,943	5,632	6,674
8/22	4,969	8,212	6,778	3,894	2,943	5,634	6,676
8/23	4,976	8,212	6,785	3,894	2,943	5,636	6,678
8/24	4,990	8,212	6,785	3,894	2,943	5,636	6,678
EOS		8,212	6,785	3,894	2,943	5,636	6,678

Sockeye Salmon Summary

- The BTF daily CPUE was **0** (cumulative: **1,753**).
- If the run ended on 8/24, 50% of the run would have passed BTF on **7/9**, which is **10 days later** than average.
- The sonar project ended on 7/26 with a cumulative passage estimate of **930,200 (843,500 - 1,016,900)**.
- The table below shows cumulative CPUE from the BTF from 2019 and in previous years.

Date	2019	2018	2017	2016	2015	5-Yr Avg.	2008 - 2018 Avg.
8/21	1,753	2,275	2,690	2,460	2,157	2,190	1,762
8/22	1,753	2,275	2,690	2,462	2,157	2,190	1,762
8/23	1,753	2,275	2,690	2,463	2,157	2,190	1,762
8/24	1,753	2,275	2,690	2,463	2,157	2,190	1,762
EOS		2,275	2,690	2,463	2,157	2,190	1,762

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Coho Salmon Appendix

Coho Salmon Table A1. Cumulative CPUE from the BTF.

Date	2019	2018	2017	2016	2015	5-Yr Avg.	2008 - 2018 Avg.
8/21	1,691	901	2,928	3,211	2,528	2,796	3,078
8/22	1,718	901	3,056	3,313	2,629	2,879	3,138
8/23	1,752	901	3,183	3,415	2,688	2,951	3,189
8/24	1,799	901	3,245	3,530	2,736	3,022	3,236
EOS		901	3,245	3,530	2,736	3,022	3,236

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

Timing	Midpoint	8/24 Cumulative %
Earliest	7/29	100%
Early 10%	8/4	100%
Early 25%	8/6	100%
Median	8/8	100%
Late 25%	8/11	100%
Late 10%	8/13	100%
Latest	8/15	100%

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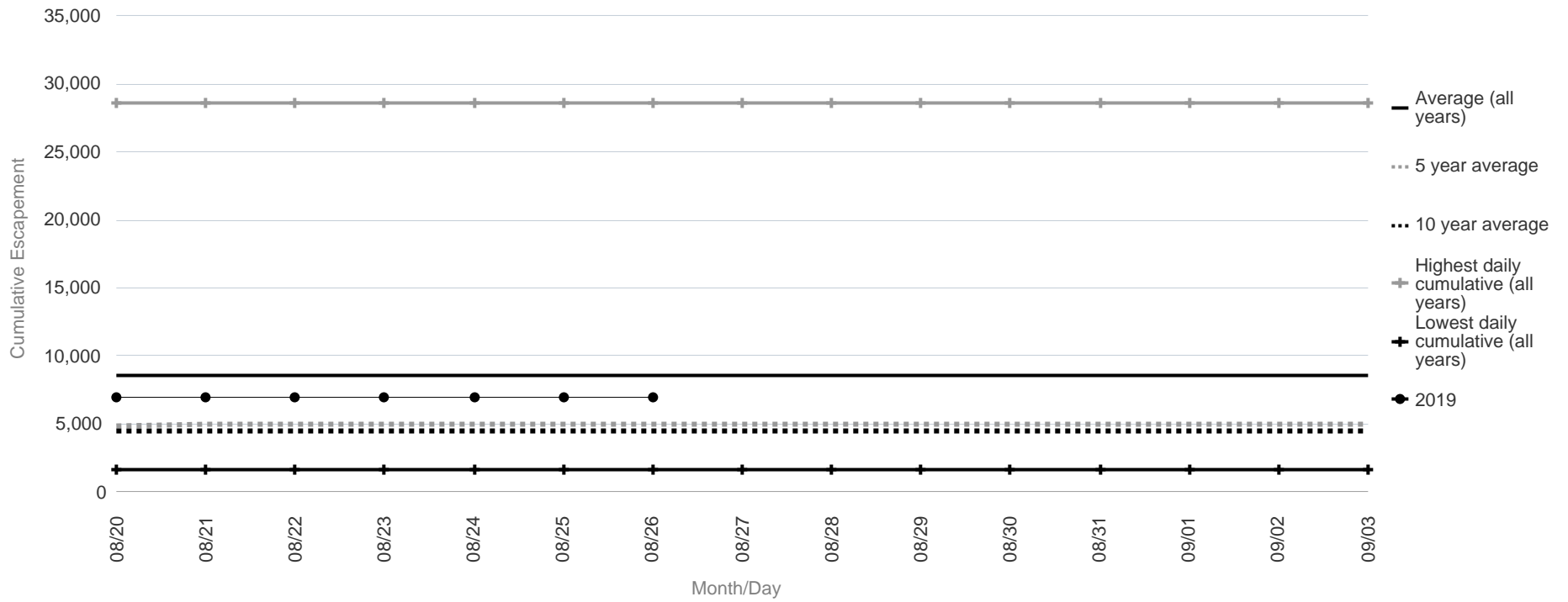
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Chinook (8/27/2019 8:01:02 PM)	1
Chum (8/27/2019 8:03:36 PM)	6
Sockeye (8/27/2019 8:03:57 PM)	10
Coho (8/27/2019 8:04:14 PM)	13

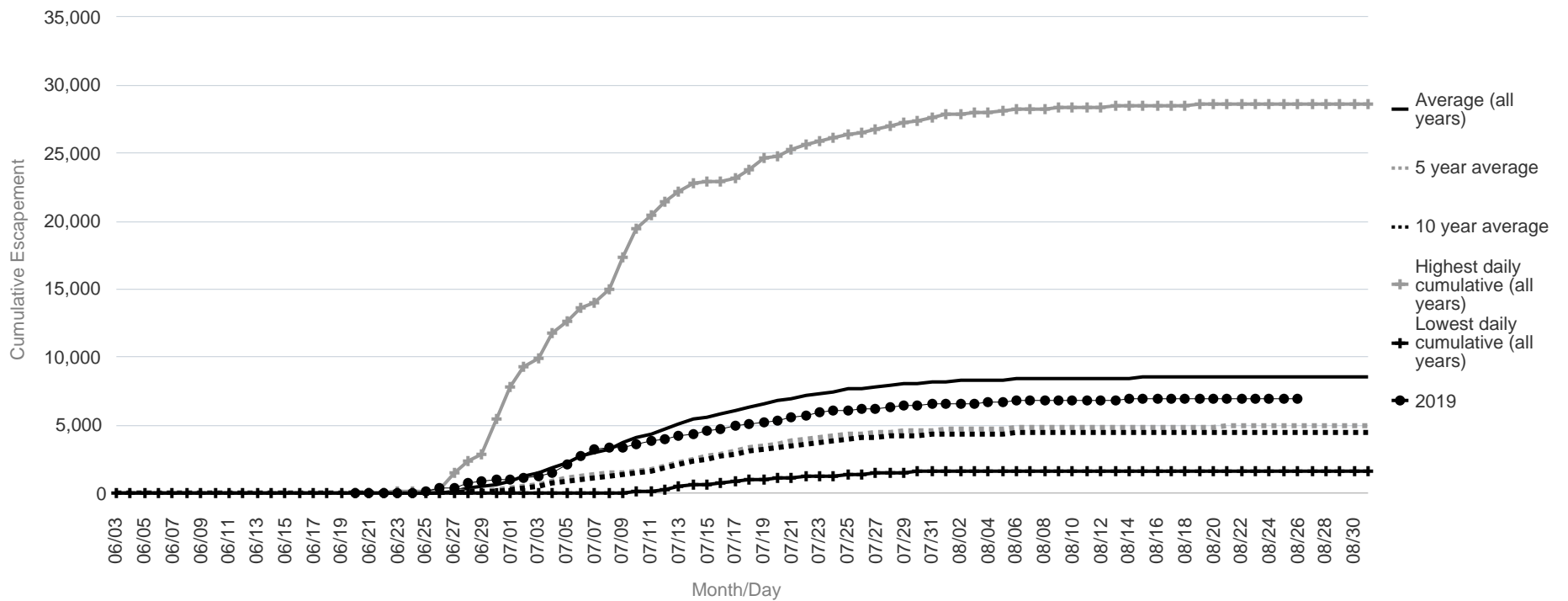
**Kwethluk River Salmon Monitoring Project
Cumulative Daily Passage of Chinook Salmon
Escapement Goal Range: 4,100 to 7,500**

			8,533	4,916	4,507	28,573	6,934
			8,536	4,921	4,510	28,579	6,939
			8,540	4,928	4,514	28,585	6,943
			8,543	4,934	4,518	28,587	6,945
			8,545	4,937	4,520	28,589	6,946
			8,547	4,941	4,523	28,592	6,947
			8,551	4,946	4,528	28,599	
			8,552	4,949	4,530	28,599	
			8,554	4,953	4,532	28,600	
			8,555	4,955	4,533	28,601	
			8,555	4,957	4,534	28,601	
			8,555	4,957	4,535	28,601	

Focused Two-Week Data View



Season Total Overview



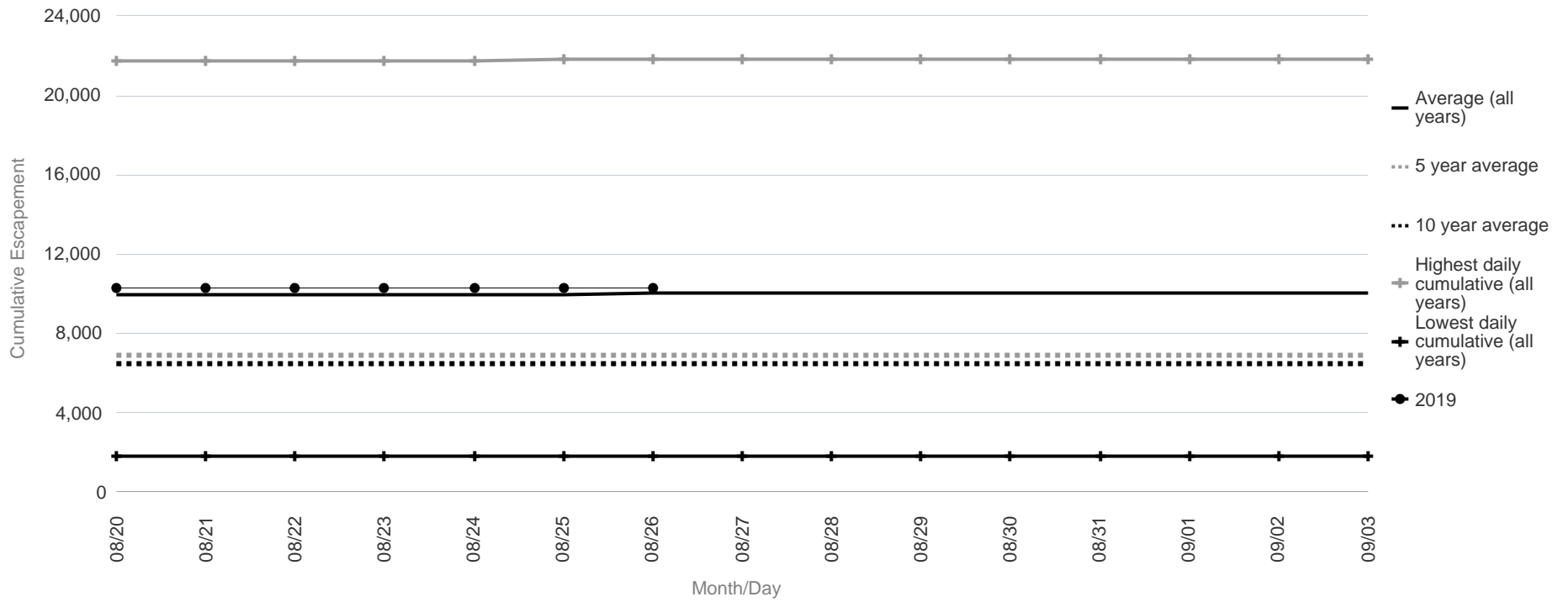
Kogrukluk River Salmon Monitoring Project Cumulative Daily Passage of Chinook Salmon

Escapement Goal Range: 4,800 to 8,800

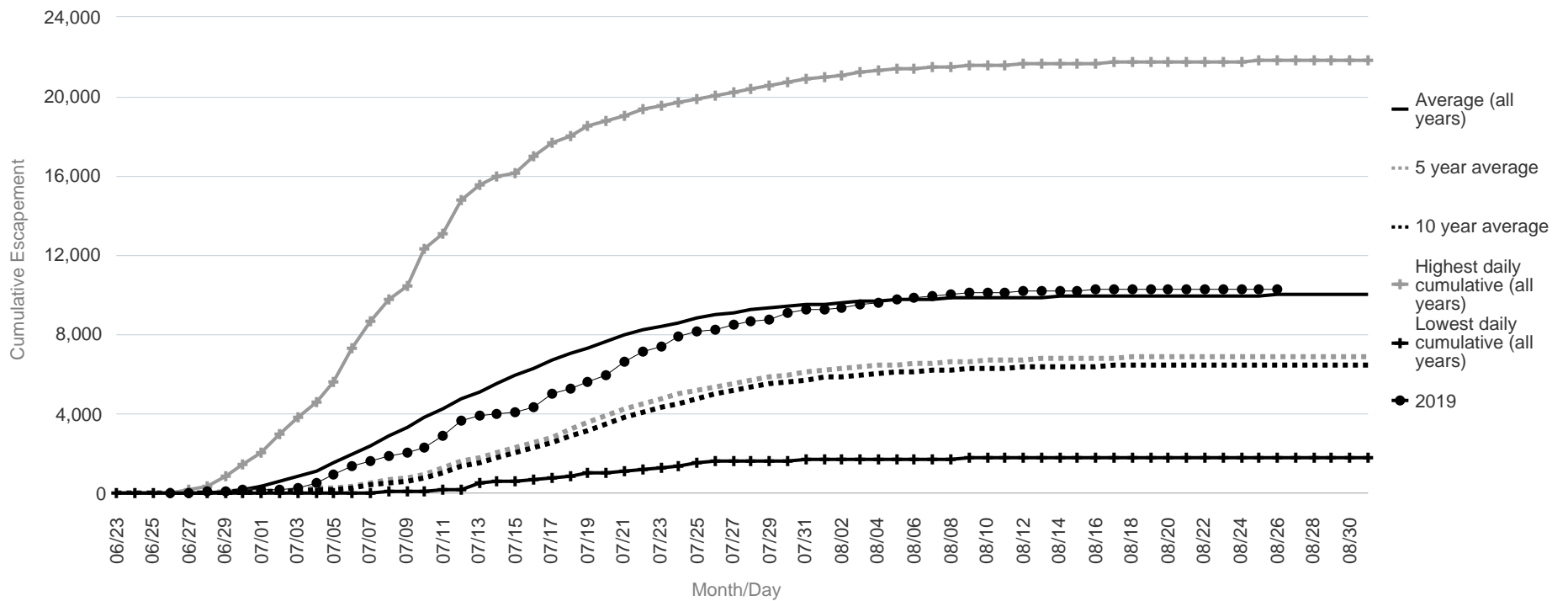
Date	Lowest daily cumulative (all years)	Average (all years)	5 year average	10 year average	Highest daily cumulative (all years)	2019
08/20	1,812	9,968	6,883	6,467	21,755	10,282
08/21	1,814	9,973	6,887	6,471	21,763	10,284
08/22	1,816	9,977	6,889	6,474	21,766	10,287
08/23	1,816	9,980	6,891	6,477	21,770	10,287
08/24	1,817	9,984	6,892	6,478	21,782	10,287
08/25	1,818	9,988	6,898	6,484	21,790	10,288
08/26	1,818	9,990	6,904	6,488	21,795	10,293
08/27	1,819	9,992	6,909	6,491	21,799	
08/28	1,819	9,994	6,913	6,493	21,803	
08/29	1,819	9,996	6,917	6,496	21,806	
08/30	1,819	9,998	6,921	6,498	21,808	
08/31	1,819	9,999	6,924	6,500	21,810	
09/01	1,819	9,999	6,924	6,500	21,810	
09/02	1,819	10,000	6,925	6,501	21,810	
09/03	1,819	10,000	6,925	6,501	21,810	

	Lowest Count	Average Count	5 Year Average	10 Year Average	Highest Count
Season Total	1,819	10,002	6,929	6,504	21,819

Focused Two-Week Data View



Season Total Overview

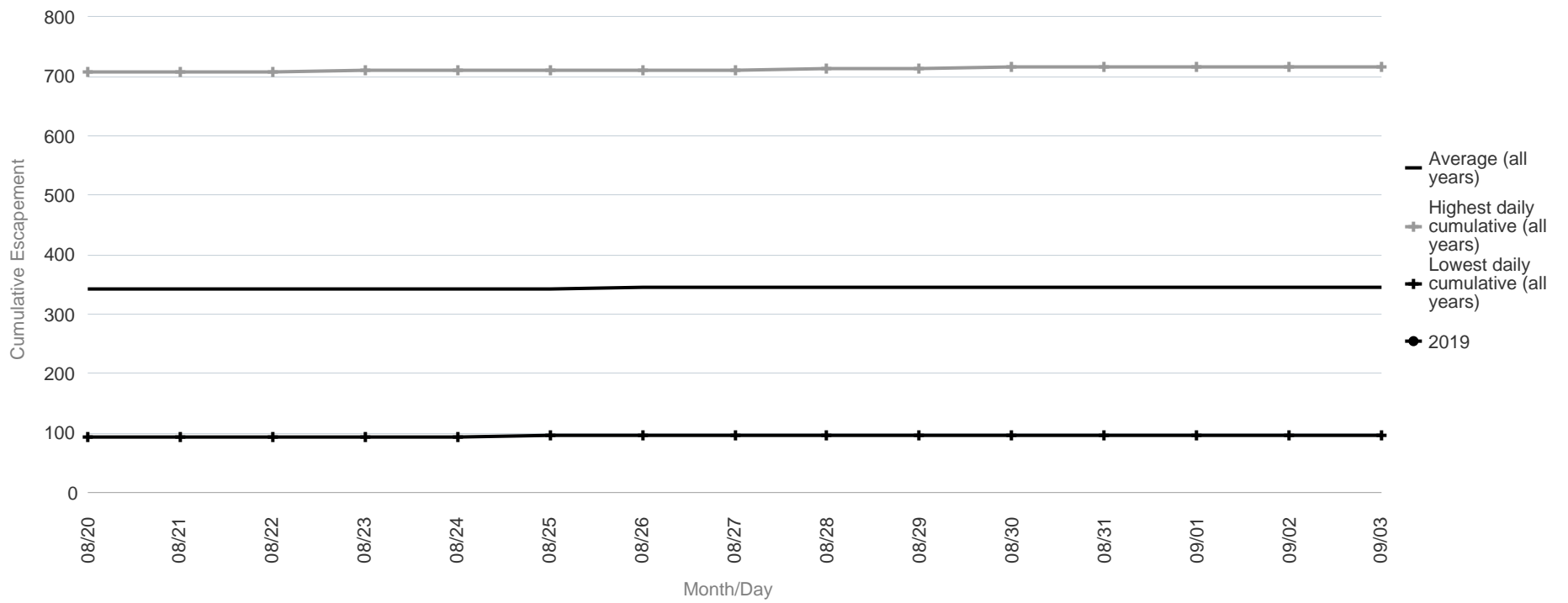


Takotna River Salmon Monitoring Project Passage of Chinook Salmon

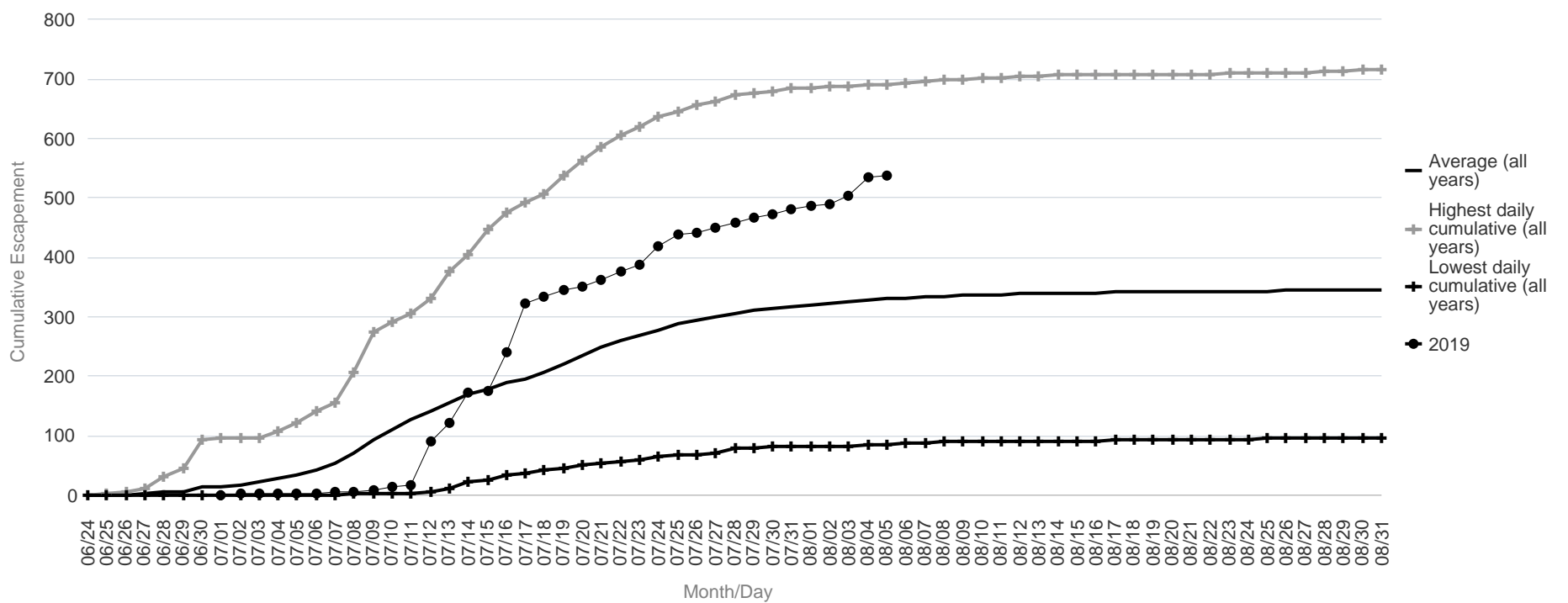
Date	Lowest daily cumulative (all years)	Average (all years)	Highest daily cumulative (all years)	2019
08/20	95	343	709	
08/21	95	343	709	
08/22	95	343	709	
08/23	95	343	710	
08/24	95	344	710	
08/25	96	344	710	
08/26	96	344	711	
08/27	97	345	712	
08/28	97	345	713	
08/29	97	345	714	
08/30	97	345	715	
08/31	97	345	716	
09/01	97	346	716	
09/02	97	346	716	
09/03	97	346	717	

	Lowest Count	Average Count	Highest Count
Season Total	97	347	718

Focused Two-Week Data View



Season Total Overview

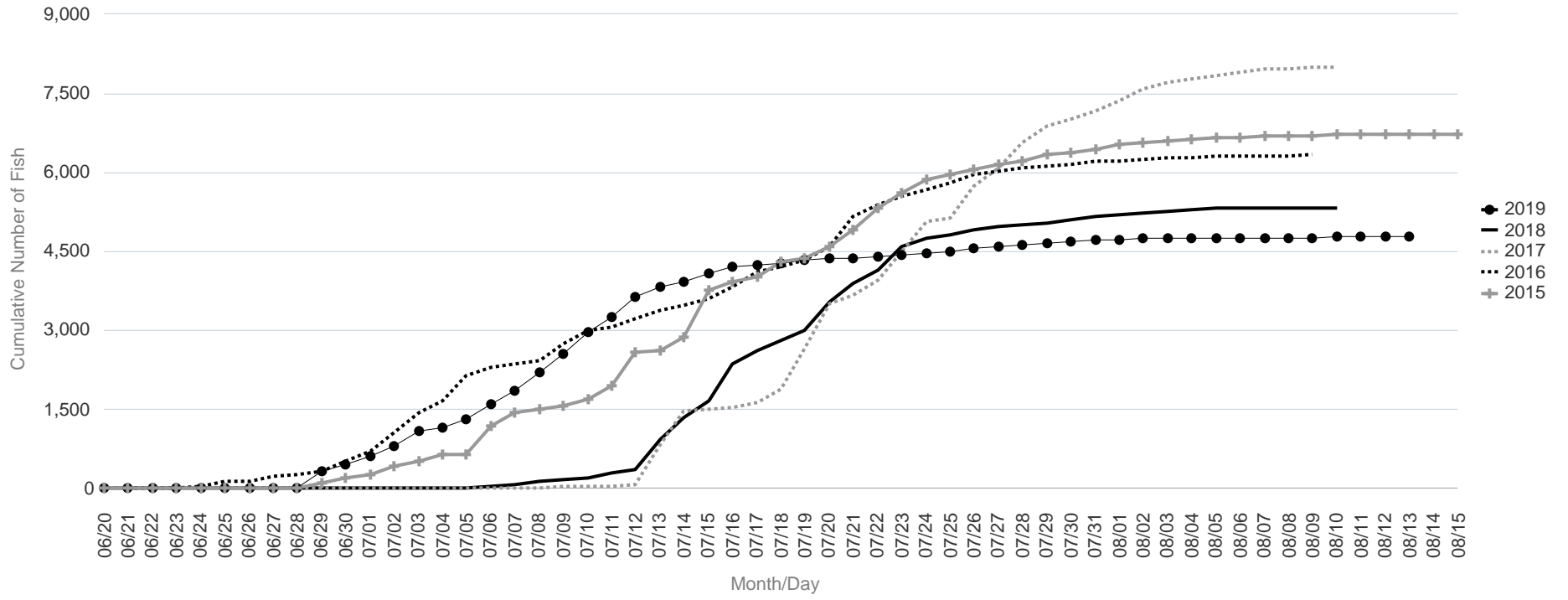


No Results
Outside of date range

	2015	2016	2017	2018
Season Total	6,736	6,326	8,003	5,317

No Results
Outside of date range

Season Total Overview

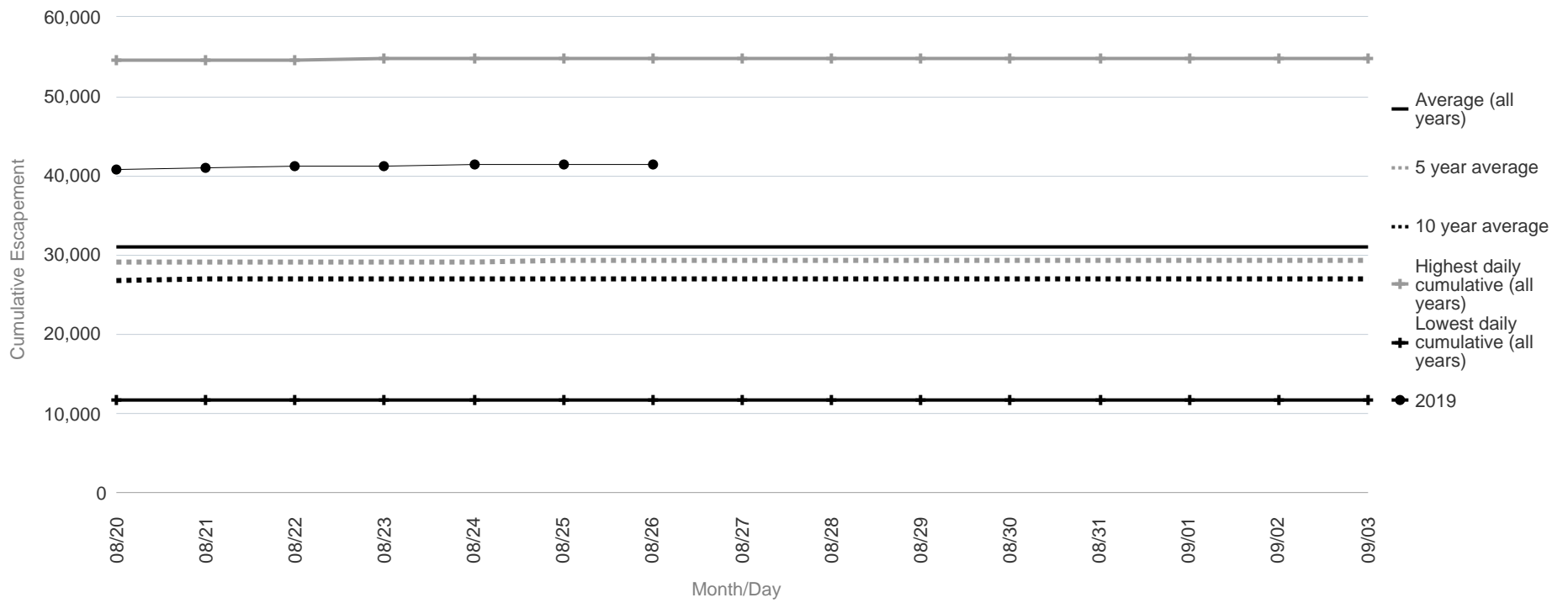


Kwethluk River Salmon Monitoring Project Cumulative Daily Passage of Chum Salmon

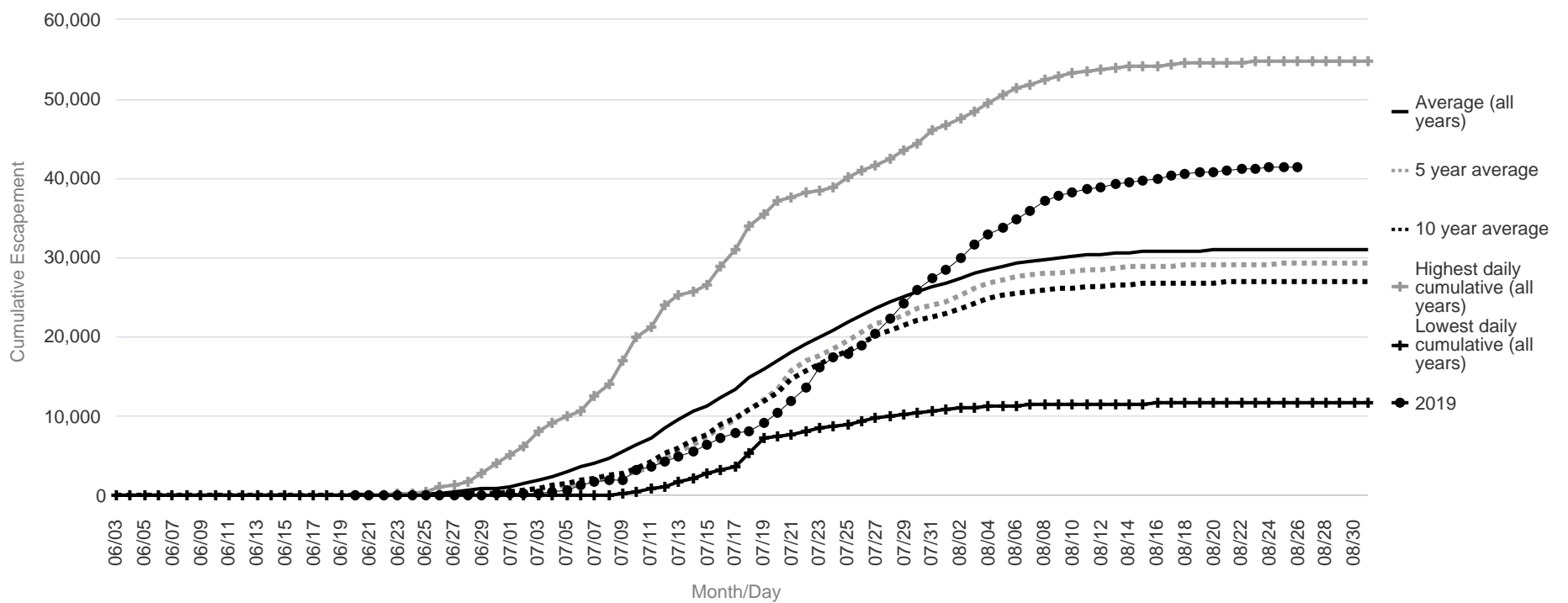
Date	Lowest daily cumulative (all years)	Average (all years)	5 year average	10 year average	Highest daily cumulative (all years)	2019
08/20	11,648	30,921	29,097	26,866	54,599	40,842
08/21	11,650	30,948	29,131	26,894	54,643	40,965
08/22	11,654	30,970	29,160	26,918	54,676	41,133
08/23	11,658	30,986	29,182	26,936	54,698	41,266
08/24	11,661	31,001	29,204	26,951	54,716	41,359
08/25	11,663	31,015	29,225	26,967	54,763	41,454
08/26	11,674	31,027	29,243	26,982	54,787	41,521
08/27	11,684	31,036	29,256	26,992	54,804	
08/28	11,684	31,044	29,268	27,002	54,817	
08/29	11,686	31,052	29,279	27,010	54,835	
08/30	11,686	31,059	29,290	27,018	54,846	
08/31	11,687	31,064	29,298	27,025	54,848	
09/01	11,688	31,070	29,307	27,031	54,864	
09/02	11,688	31,075	29,316	27,037	54,867	
09/03	11,689	31,079	29,325	27,043	54,876	

	Lowest Count	Average Count	5 Year Average	10 Year Average	Highest Count
Season Total	11,691	31,104	29,379	27,080	54,913

Focused Two-Week Data View



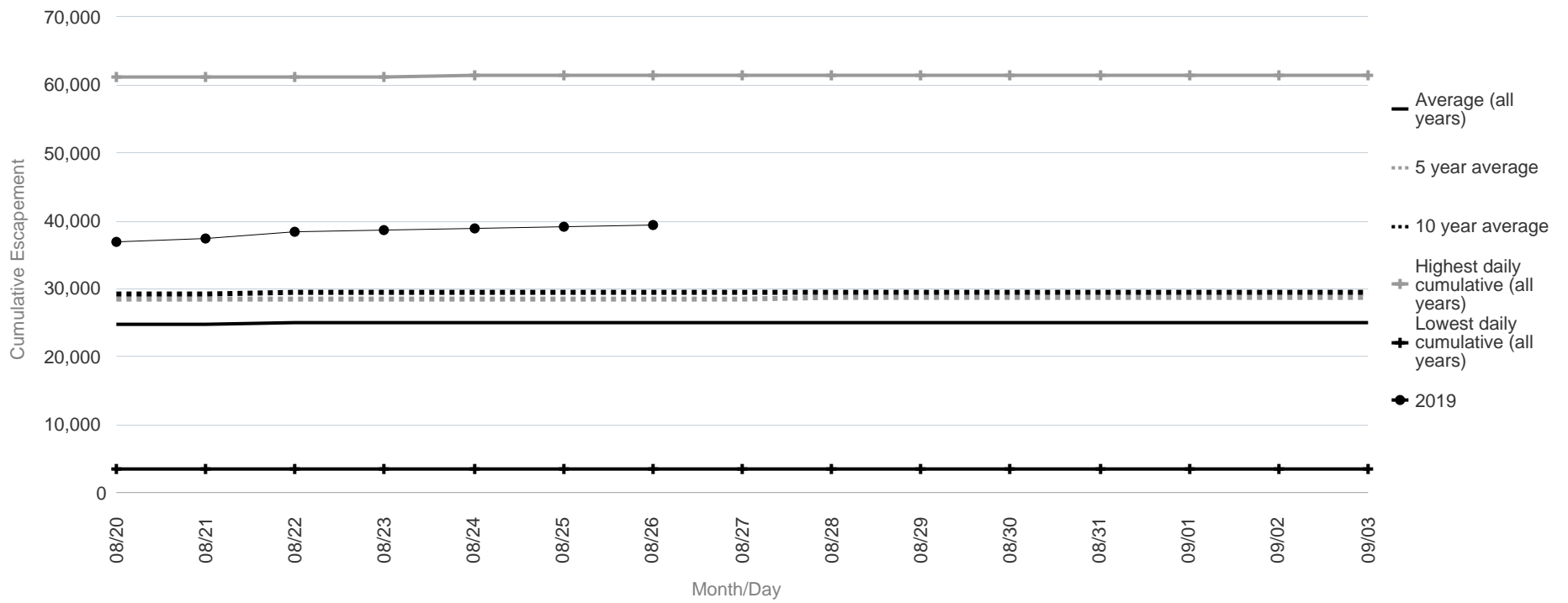
Season Total Overview



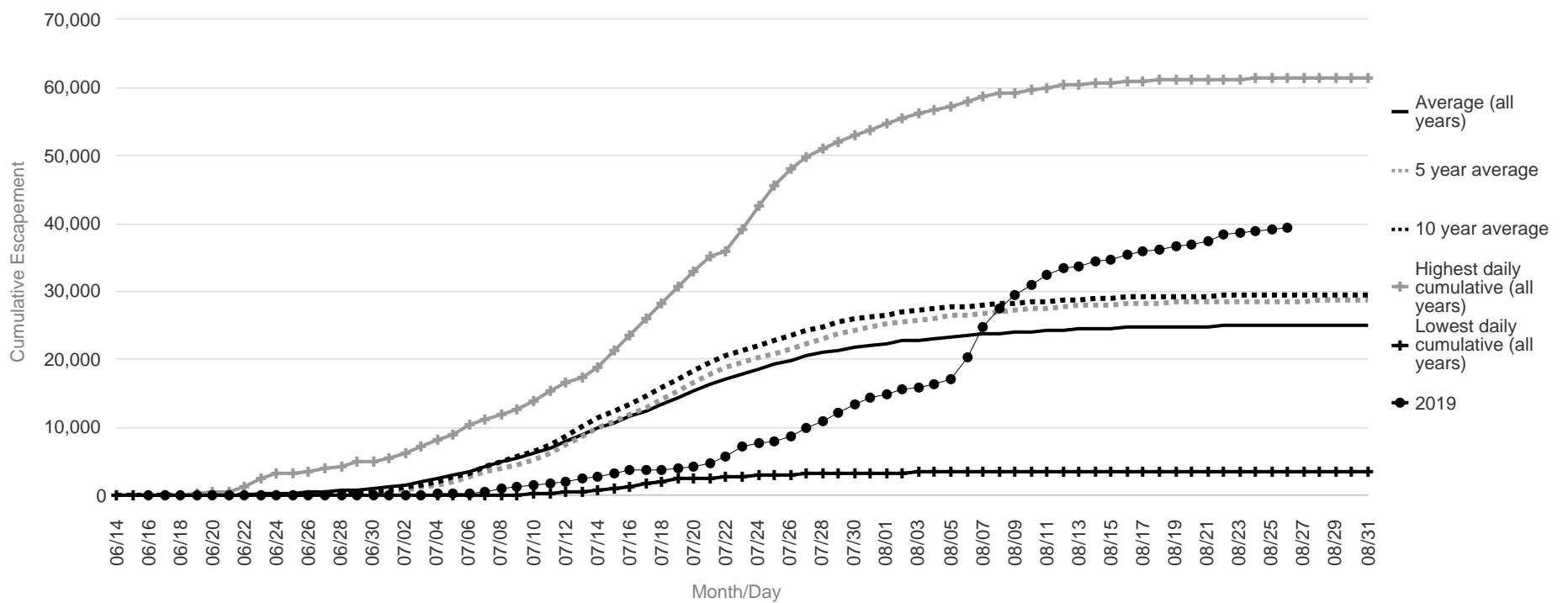
George River Salmon Monitoring Project Cumulative Daily Passage of Chum Salmon

			24,898	28,477	29,375	61,245	37,388
			24,929	28,510	29,404	61,286	38,312
			24,956	28,536	29,429	61,318	38,609
			24,981	28,565	29,454	61,342	38,889
			25,000	28,587	29,469	61,358	39,169
			25,015	28,614	29,486	61,373	39,323
			25,055	28,671	29,523	61,421	
			25,066	28,683	29,531	61,425	
			25,076	28,694	29,539	61,435	
			25,081	28,699	29,543	61,439	
			25,087	28,710	29,551	61,443	
			25,091	28,717	29,556	61,450	

Focused Two-Week Data View



Season Total Overview

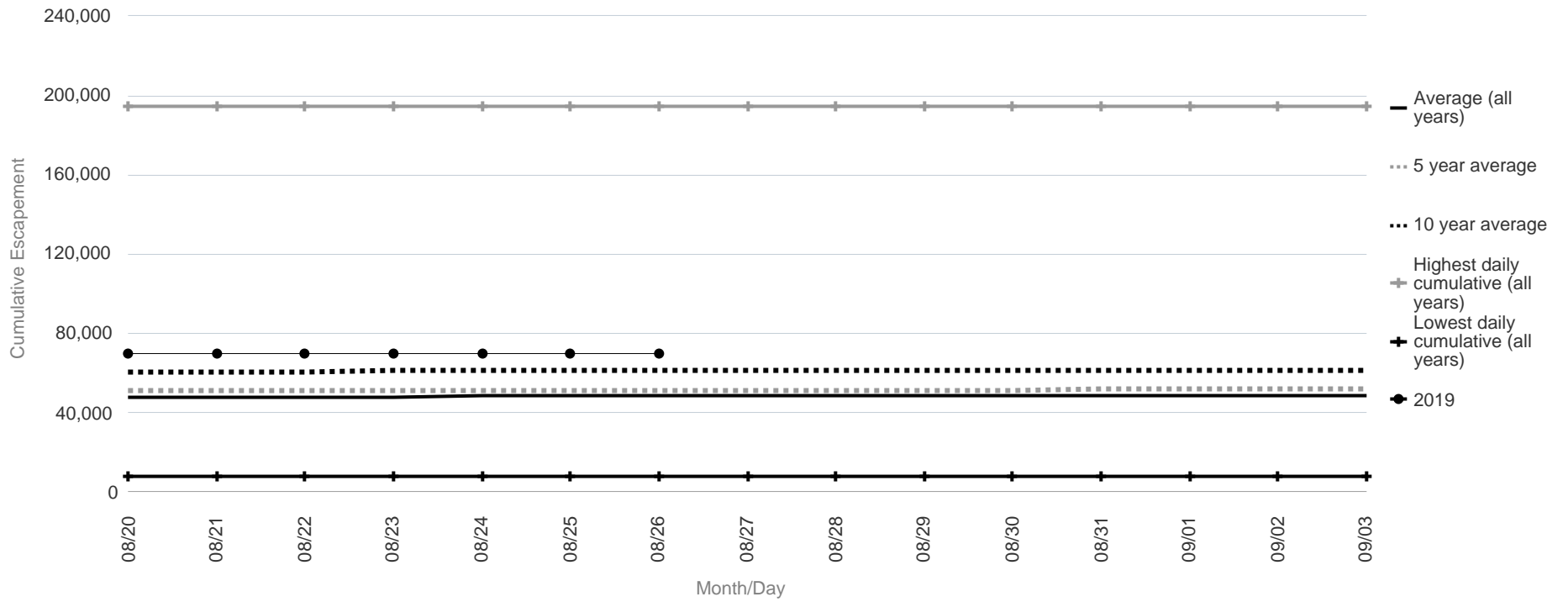


Kogrukluk River Salmon Monitoring Project Cumulative Daily Passage of Chum Salmon

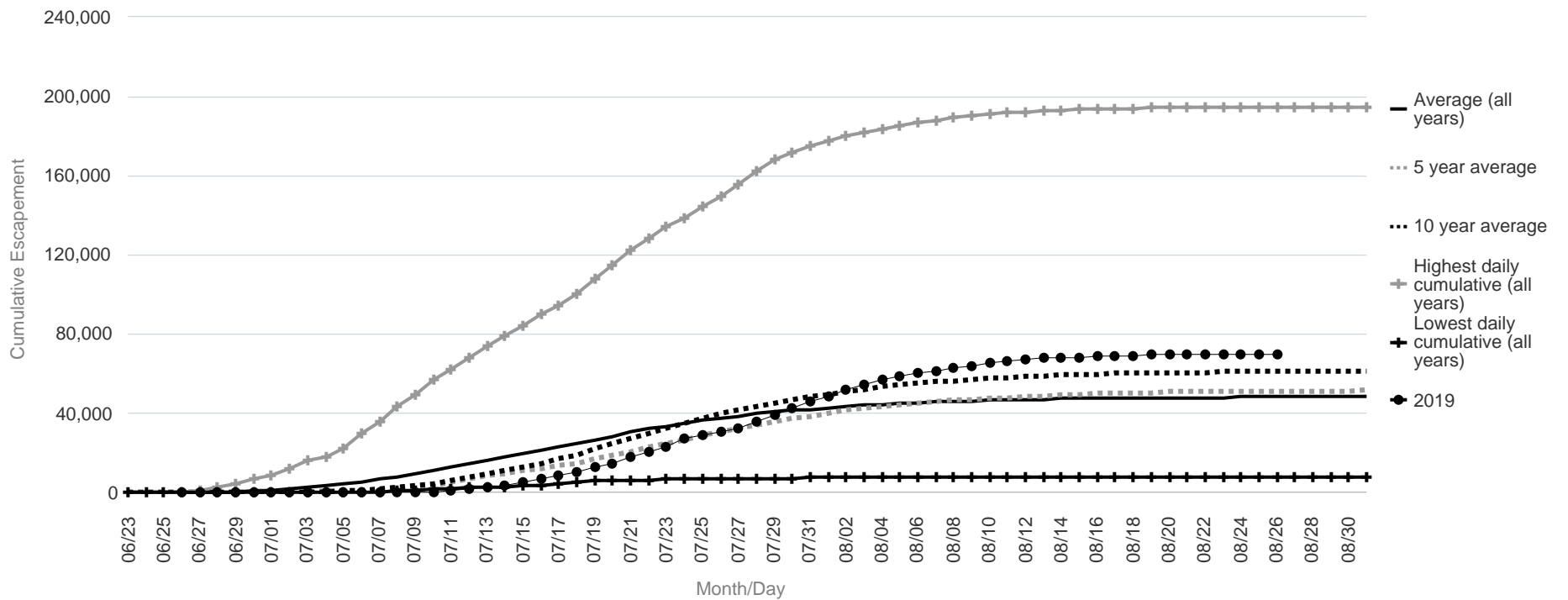
Escapement Goal Range: 15,000 to 49,000

		48,010	50,903	60,722		194,356	69,761
		48,064	50,975	60,817		194,416	69,917
		48,111	51,027	60,891		194,479	70,055
		48,154	51,085	60,959		194,579	70,067
		48,201	51,177	61,048		194,644	70,073
		48,229	51,261	61,127		194,673	70,145
		48,281	51,460	61,254		194,746	
		48,293	51,507	61,284		194,766	
		48,304	51,550	61,312		194,778	
		48,307	51,555	61,318		194,787	
		48,309	51,559	61,322		194,792	
		48,311	51,563	61,326		194,797	

Focused Two-Week Data View



Season Total Overview

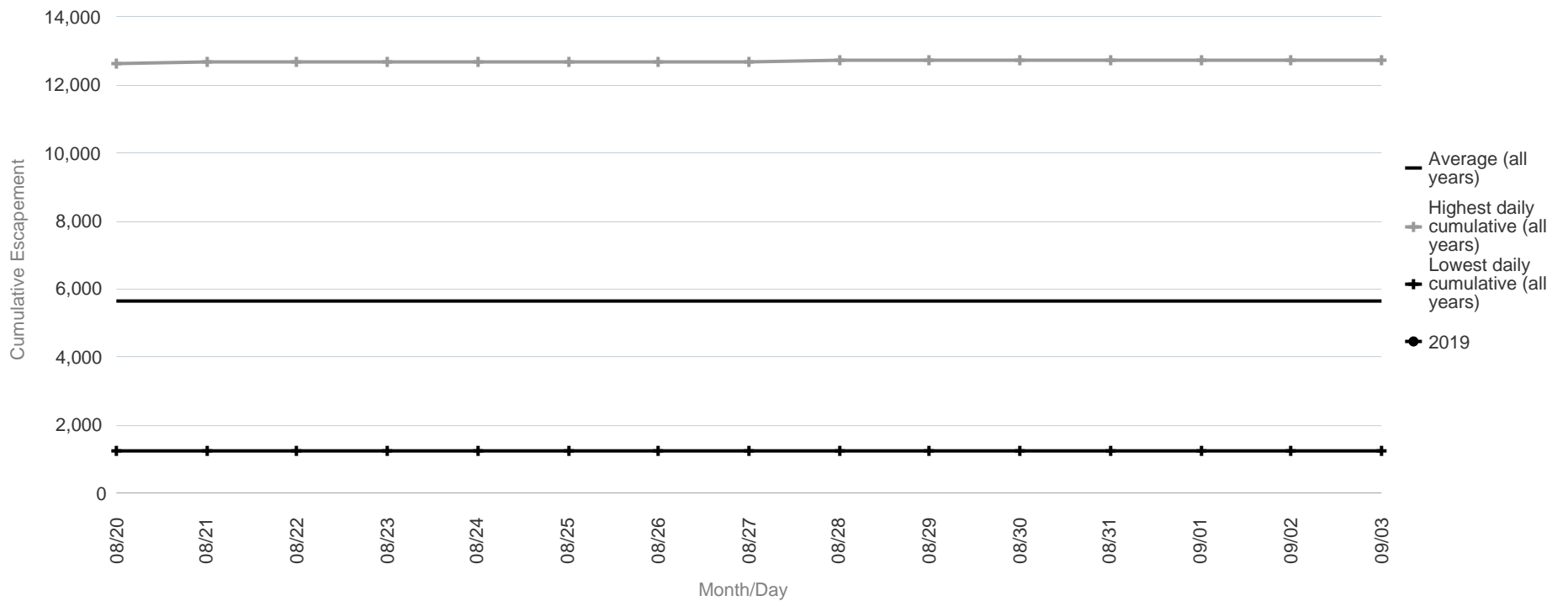


Takotna River Salmon Monitoring Project Passage of Chum Salmon

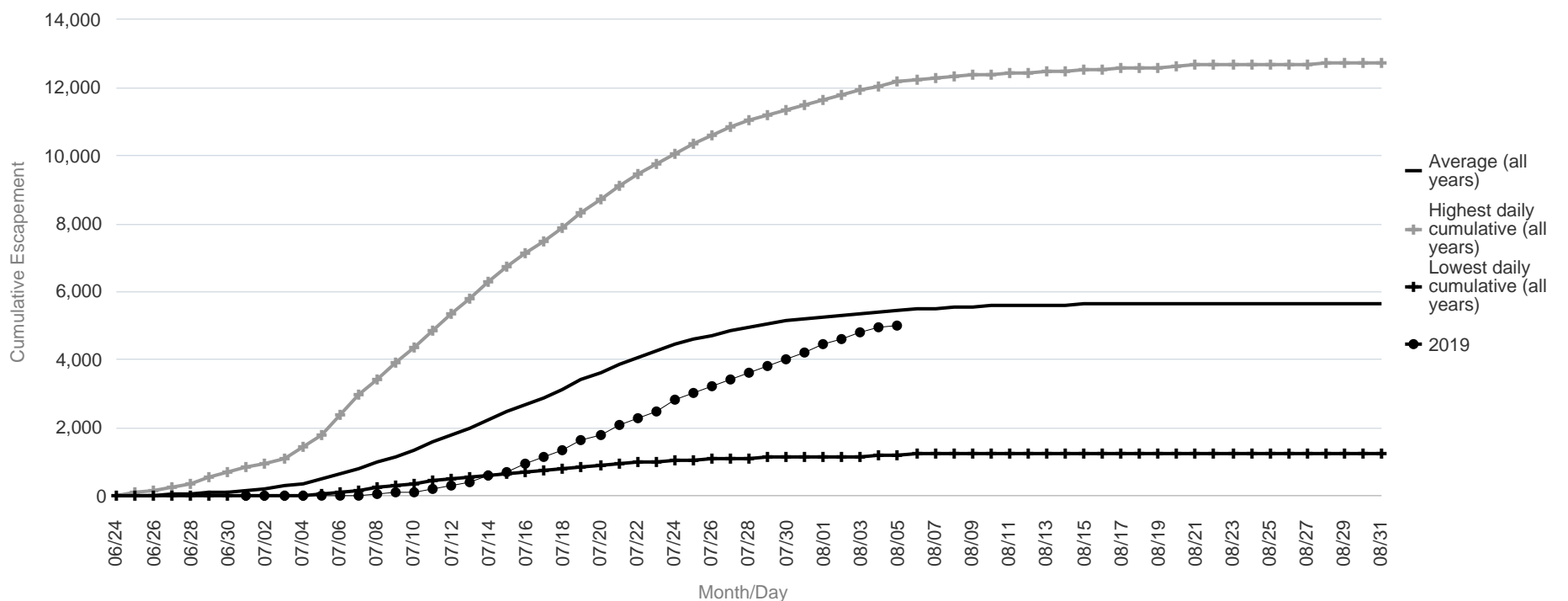
Date	Lowest daily cumulative (all years)	Average (all years)	Highest daily cumulative (all years)	2019
08/20	1,264	5,659	12,635	
08/21	1,264	5,663	12,663	
08/22	1,264	5,666	12,688	
08/23	1,264	5,668	12,691	
08/24	1,264	5,670	12,699	
08/25	1,264	5,671	12,701	
08/26	1,264	5,671	12,705	
08/27	1,264	5,672	12,709	
08/28	1,264	5,673	12,714	
08/29	1,265	5,674	12,718	
08/30	1,265	5,674	12,722	
08/31	1,265	5,675	12,724	
09/01	1,265	5,675	12,724	
09/02	1,265	5,675	12,724	
09/03	1,265	5,675	12,724	

	Lowest Count	Average Count	Highest Count
Season Total	1,265	5,678	12,729

Focused Two-Week Data View



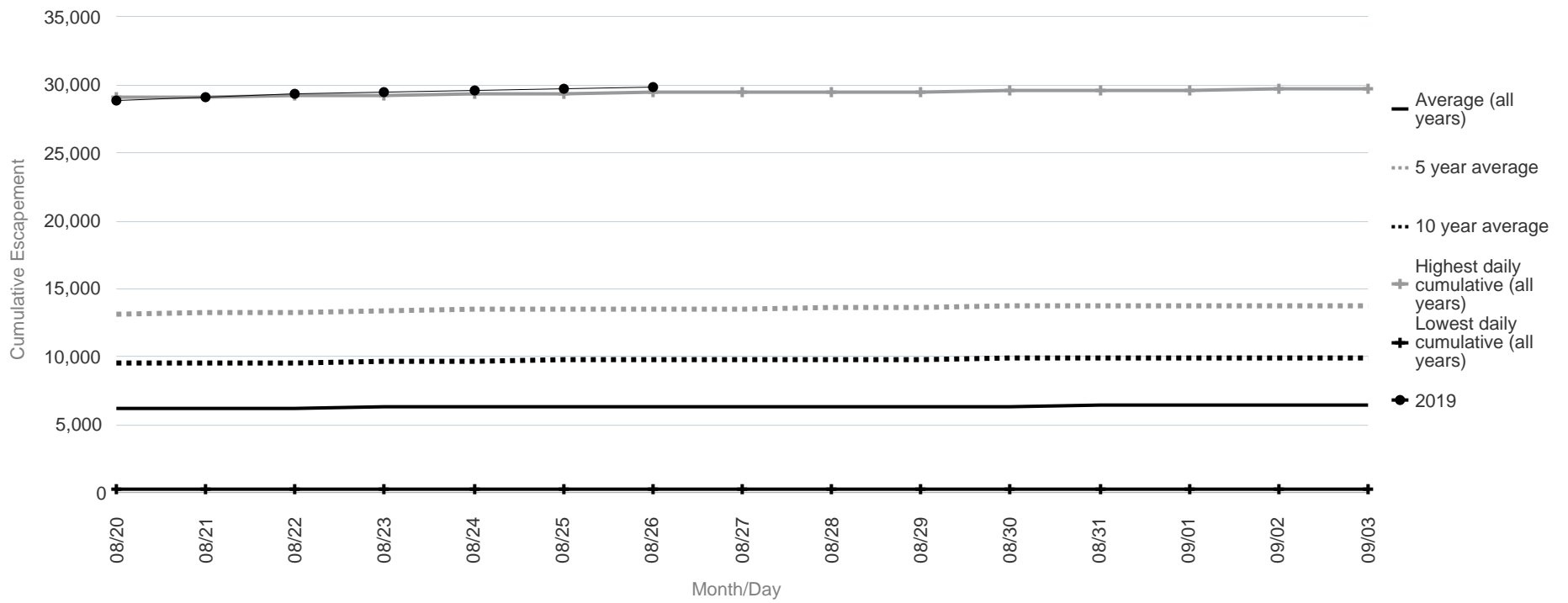
Season Total Overview



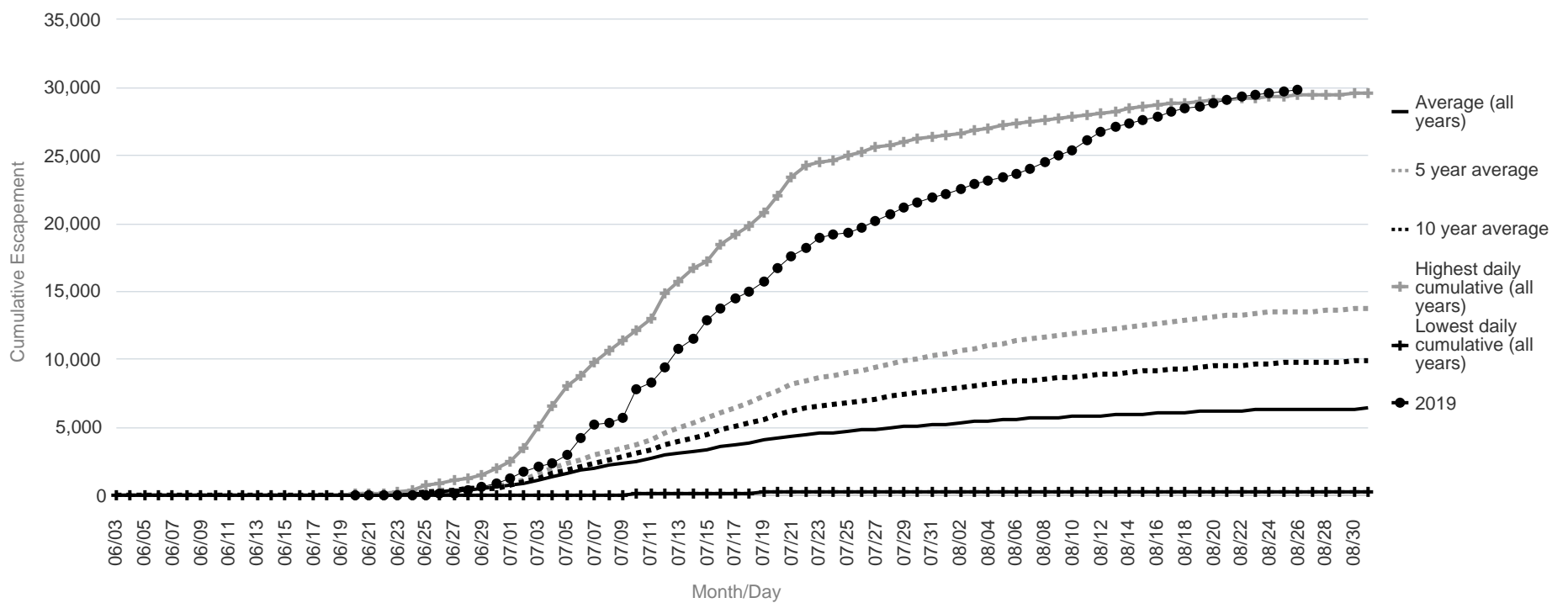
Kwethluk River Salmon Monitoring Project Cumulative Daily Passage of Sockeye Salmon

			6,235	13,224	9,566	29,119 29,053
			6,258	13,296	9,612	29,180 29,346
			6,286	13,380	9,665	29,247 29,507
			6,312	13,457	9,714	29,327 29,622
			6,328	13,504	9,744	29,382 29,735
			6,340	13,539	9,766	29,425 29,807
			6,379	13,659	9,842	29,542
			6,395	13,708	9,872	29,579
			6,404	13,735	9,890	29,615
			6,413	13,760	9,905	29,650
			6,420	13,782	9,919	29,673
			6,425	13,797	9,929	29,704

Focused Two-Week Data View



Season Total Overview

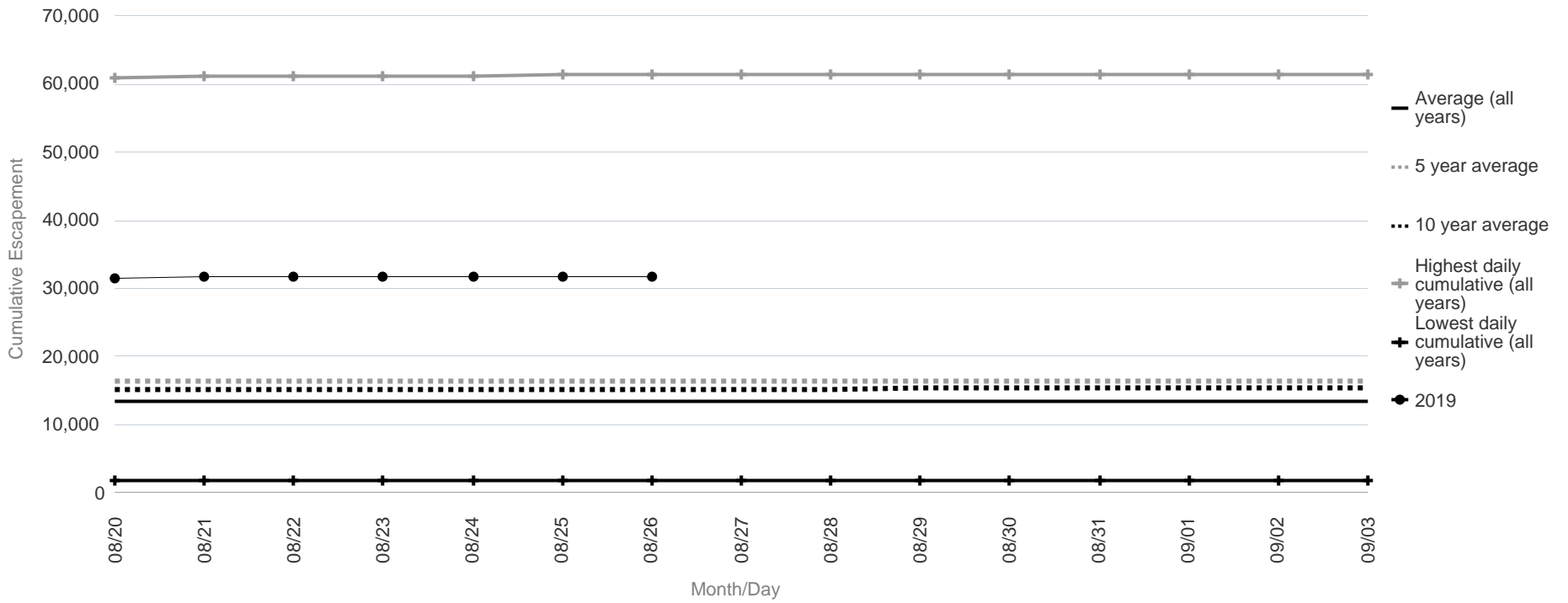


Kogrukluk River Salmon Monitoring Project Cumulative Daily Passage of Sockeye Salmon

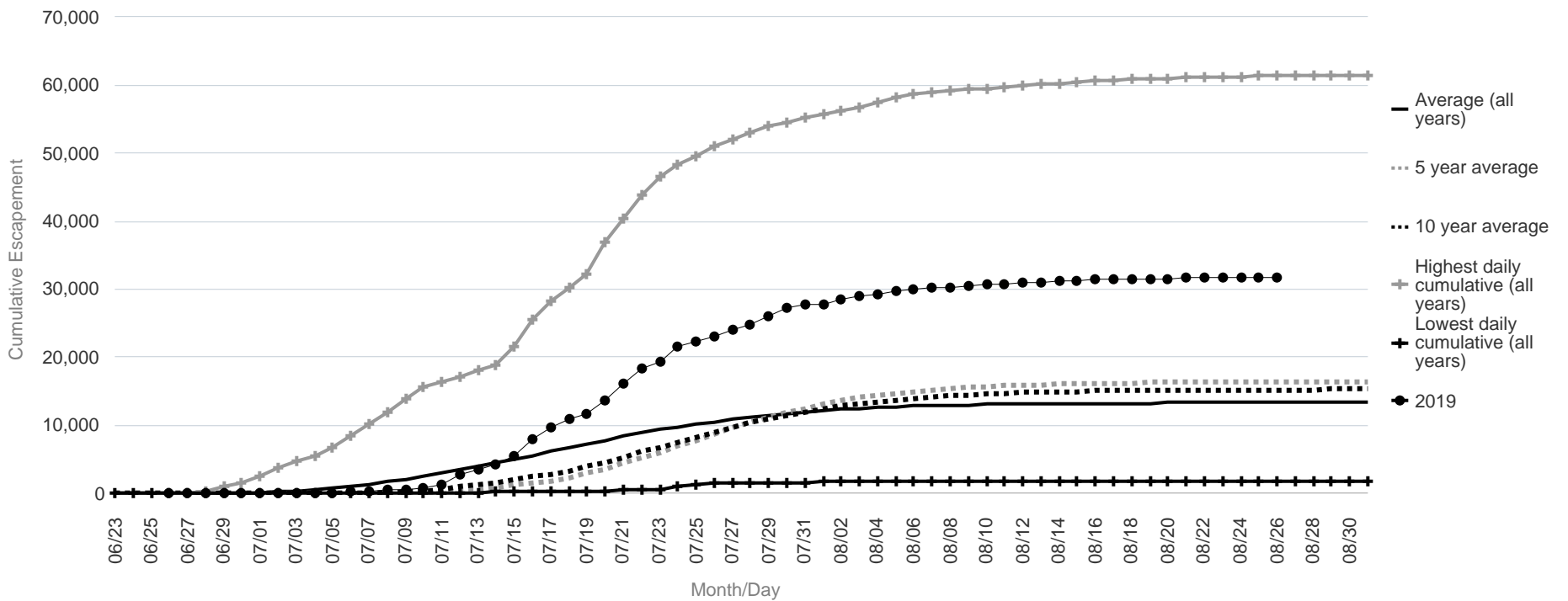
Escapement Goal Range: 4,400 to 17,000

			13,302	16,303	15,201	61,103	31,624
			13,309	16,310	15,216	61,168	31,666
			13,315	16,316	15,229	61,225	31,717
			13,321	16,321	15,241	61,276	31,717
			13,326	16,327	15,252	61,321	31,718
			13,330	16,334	15,264	61,331	31,727
			13,335	16,352	15,275	61,347	
			13,336	16,356	15,277	61,351	
			13,337	16,361	15,280	61,352	
			13,338	16,364	15,282	61,353	
			13,339	16,368	15,285	61,355	
			13,340	16,372	15,287	61,357	

Focused Two-Week Data View



Season Total Overview

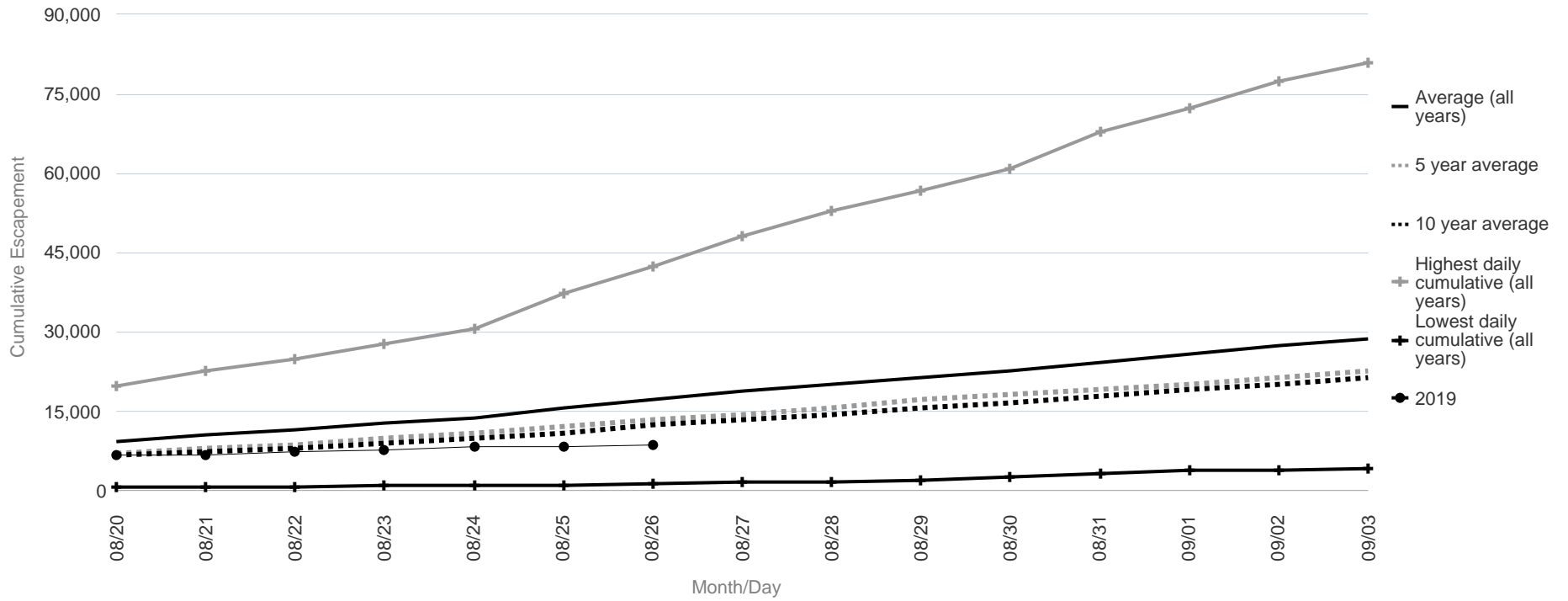


Kwethluk River Salmon Monitoring Project Cumulative Daily Passage of Coho Salmon

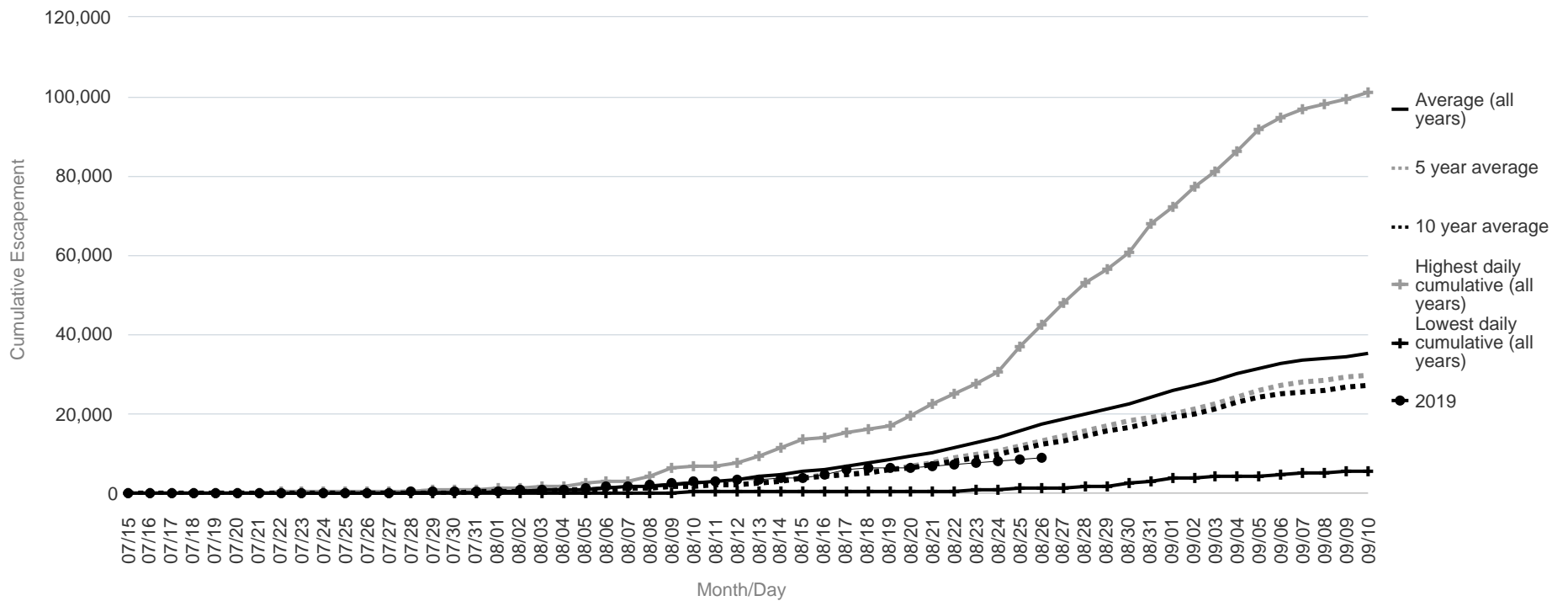
Date	Lowest daily cumulative (all years)	Average (all years)	5 year average	10 year average	Highest daily cumulative (all years)	2019
08/20	606	9,409	7,028	6,623	19,664	6,599
08/21	659	10,443	7,887	7,368	22,589	6,813
08/22	689	11,598	8,807	8,122	24,927	7,371
08/23	872	12,781	9,850	9,054	27,877	7,614
08/24	1,023	13,880	10,743	9,840	30,656	8,247
08/25	1,169	15,606	12,002	10,966	37,170	8,443
08/26	1,304	17,374	13,423	12,401	42,466	8,811
08/27	1,555	18,863	14,463	13,317	48,099	
08/28	1,774	19,980	15,658	14,304	52,944	
08/29	1,880	21,324	17,253	15,796	56,627	
08/30	2,593	22,718	18,183	16,736	60,840	
08/31	3,223	24,348	19,026	17,911	67,808	
09/01	3,748	25,853	20,148	19,031	72,257	
09/02	3,977	27,380	21,272	20,060	77,411	
09/03	4,181	28,688	22,733	21,429	80,941	

	Lowest Count	Average Count	5 Year Average	10 Year Average	Highest Count
Season Total	5,589	35,841	29,869	27,450	107,789

Focused Two-Week Data View



Season Total Overview

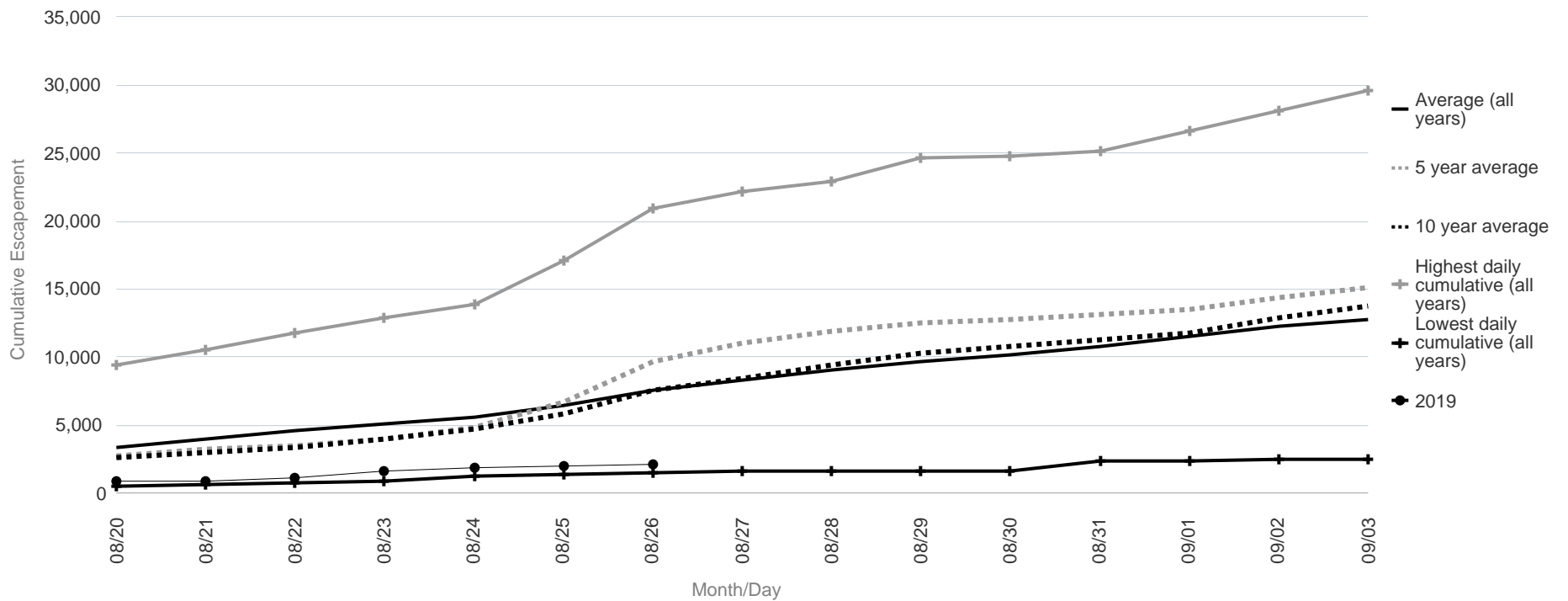


George River Salmon Monitoring Project Cumulative Daily Passage of Coho Salmon

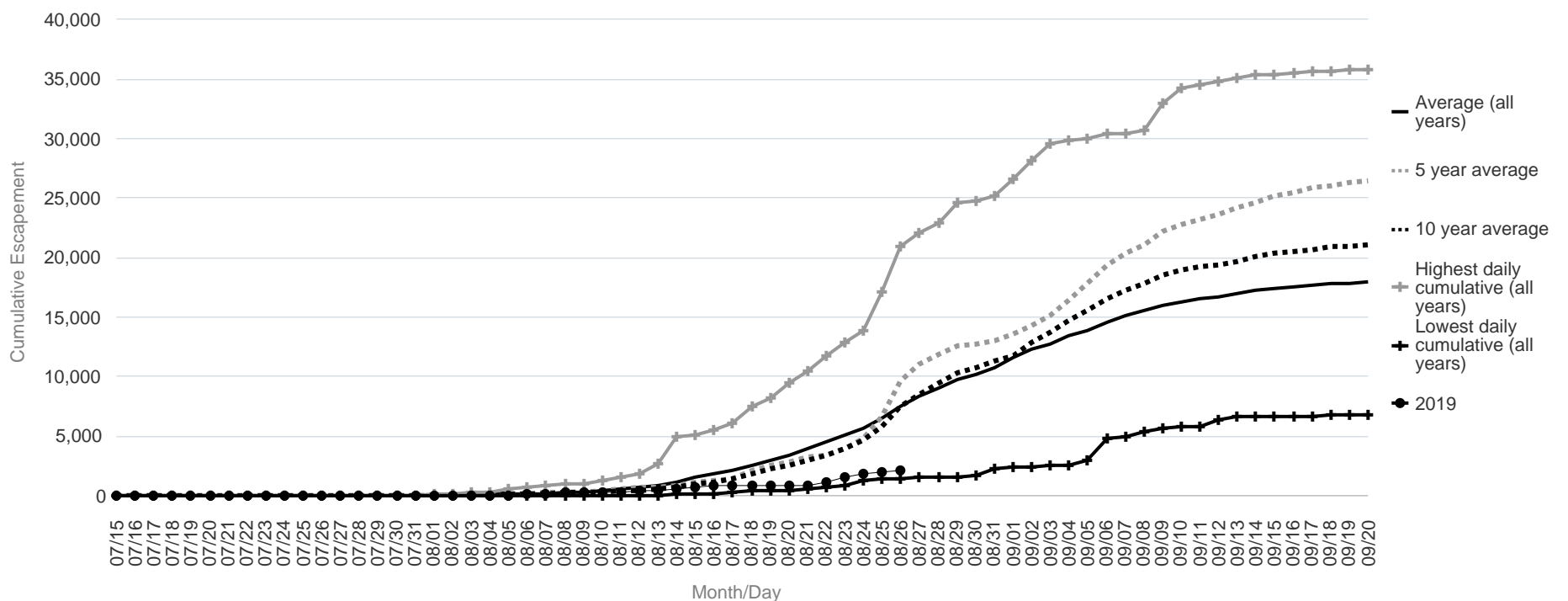
Date	Lowest daily cumulative (all years)	Average (all years)	5 year average	10 year average	Highest daily cumulative (all years)	2019
08/20	476	3,384	2,808	2,571	9,456	852
08/21	582	3,986	3,215	2,991	10,491	857
08/22	733	4,542	3,473	3,415	11,822	1,141
08/23	903	5,086	3,991	3,972	12,940	1,577
08/24	1,278	5,623	4,799	4,701	13,930	1,851
08/25	1,374	6,485	6,648	5,844	17,168	2,056
08/26	1,467	7,514	9,684	7,534	20,938	2,100
08/27	1,600	8,331	11,023	8,497	22,136	
08/28	1,623	9,072	11,859	9,459	22,960	
08/29	1,625	9,732	12,566	10,300	24,603	
08/30	1,678	10,231	12,758	10,829	24,767	
08/31	2,319	10,779	13,100	11,296	25,211	
09/01	2,425	11,576	13,563	11,797	26,576	
09/02	2,473	12,315	14,327	12,949	28,149	
09/03	2,538	12,820	15,114	13,767	29,603	

	Lowest Count	Average Count	5 Year Average	10 Year Average	Highest Count
Season Total	6,759	17,988	26,492	21,111	35,812

Focused Two-Week Data View



Season Total Overview



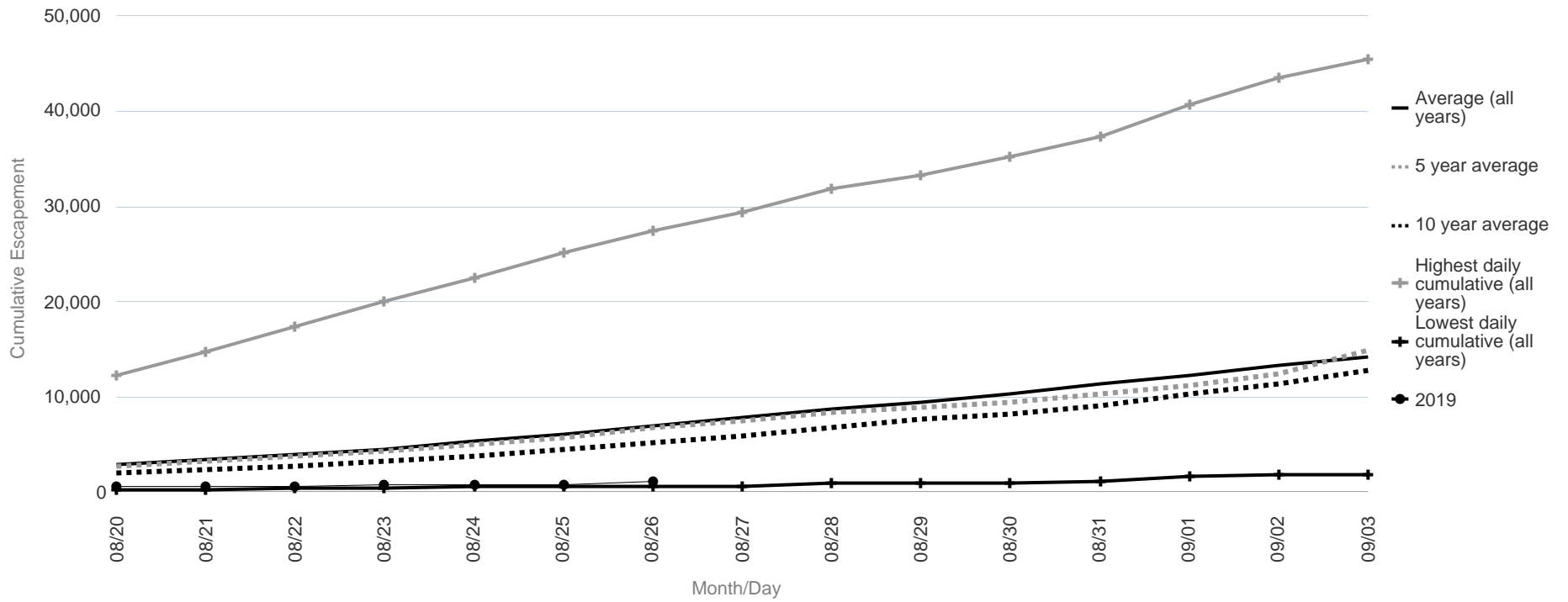
Kogrukluk River Salmon Monitoring Project Cumulative Daily Passage of Coho Salmon

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)	2019
08/20	206	2,782	2,731	1,932	12,282	600
08/21	238	3,318	3,214	2,278	14,792	605
08/22	305	3,867	3,803	2,684	17,339	634
08/23	457	4,521	4,364	3,182	20,004	771
08/24	557	5,270	5,004	3,745	22,422	771
08/25	592	6,109	5,768	4,405	25,149	787
08/26	598	6,965	6,669	5,118	27,495	1,040
08/27	625	7,761	7,414	5,934	29,448	
08/28	895	8,651	8,312	6,808	31,878	
08/29	944	9,485	8,939	7,568	33,253	
08/30	972	10,344	9,462	8,255	35,309	
08/31	1,133	11,280	10,264	9,124	37,407	
09/01	1,693	12,312	11,160	10,218	40,665	
09/02	1,740	13,268	12,499	11,264	43,455	
09/03	1,809	14,250	14,945	12,762	45,556	

	Lowest Count	Average Count	5 Year Average	10 Year Average	Highest Count
Season Total	3,446	23,161	31,214	23,381	74,915

Focused Two-Week Data View



Season Total Overview

