

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: 07/05/2017

Time: 10:00 a.m.

Place: Bethel

_ Time Called to Order: Chair: LaMont Albertson

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.*

ADF&G MANAGEMENT ACTIONS UNDER CONSIDERATION:

U.S. FISH & WILDLIFE MANAGEMENT ACTIONS:

PEOPLE TO BE HEARD:

CONTINUING BUSINESS:

- Subsistence Reports: Lowest River, ONC Inseason Subsistence Report, Lower River, Middle River, Upper River, Headwaters, USFWS Harvest Estimates
- Overview of Kuskokwim River salmon run assessment/ discussion of ADF&G considerations:
 - a. Test Fisheries (Bethel and Aniak):
 - b. Sonar/Weirs/Mark-Recapture/Aerial Surveys/Other:
 - c. Subsistence Division Project Update:
- Commercial Catch Report: N/A
- Processor Report:
- Sport Fish Report:
- Intercept Fishery Report:
- 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:

- State and Federal law enforcement updates and discussion

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

Total Catch for Lower Kuskokwim River Tagging			
Date	Chinook	Sockeye	Chum
5/26/2017	1	0	0
5/27/2017	0	0	0
5/28/2017	1	0	0
5/29/2017	0	0	0
5/30/2017	0	0	0
5/31/2017	0	0	0
6/1/2017	1	0	0
6/2/2017	1	0	0
6/3/2017	1	0	0
6/4/2017	1	0	0
6/5/2017	7	0	0
6/6/2017	3	0	0
6/7/2017	13	0	1
6/8/2017	9	0	0
6/9/2017	4	0	0
6/10/2017	8	0	1
6/11/2017	9	0	1
6/12/2017	12	0	0
6/13/2017	5	0	0
6/14/2017	15	1	0
6/15/2017	9	0	0
6/16/2017	9	1	0
6/17/2017	16	1	0
6/18/2017	20	0	3
6/19/2017	24	2	3
6/20/2017	28	0	8
6/21/2017	18	1	9
6/22/2017	24	4	10
6/23/2017	28	3	9
6/24/2017	14	3	16
6/25/2017	27	2	8
6/26/2017	15	2	13
6/27/2017	22	0	16
6/28/2017	15	1	10
6/29/2017	21	0	8
6/30/2017	10	1	5
7/1/2017	19	1	4
7/2/2017	17	1	16
7/3/2017	30	9	20
7/4/2017			
Totals	457	33	161

Note- All fish were caught using 7.5" drift gillnets.

Informational Packet

Kuskokwim River Salmon Assessment Update: 7/3/2017



This document presents the key assessment information considered by managers in-season. The production of this document is a collaborative effort between the ADF&G and USFWS. **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 Zachary Liller (ADF&G; zachary.liller@alaska.gov).

Table of Contents (*Click to jump to section*):

- **Page 2:** Chinook Salmon Bethel Test Fishery Information
- **Page 3:** Chum Salmon Bethel Test Fishery Information
- **Page 4:** Sockeye Salmon Bethel Test Fishery Information
- **Page 5:** Chum/Sockeye:Chinook Salmon Ratio Information
- **Page 6:** Species Composition Information
- **Page 7:** Sonar Cumulative Count Information
- **Page 8:** Chinook Salmon Appendix
- **Page 9:** Chum Salmon Appendix
- **Page 10:** Sockeye Salmon Appendix

Abbreviations:

- BTF: Bethel Test Fishery
- ATF: Aniak Test Fishery
- CPUE: Catch-per-unit-effort
- EOS: End-of-Season

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:

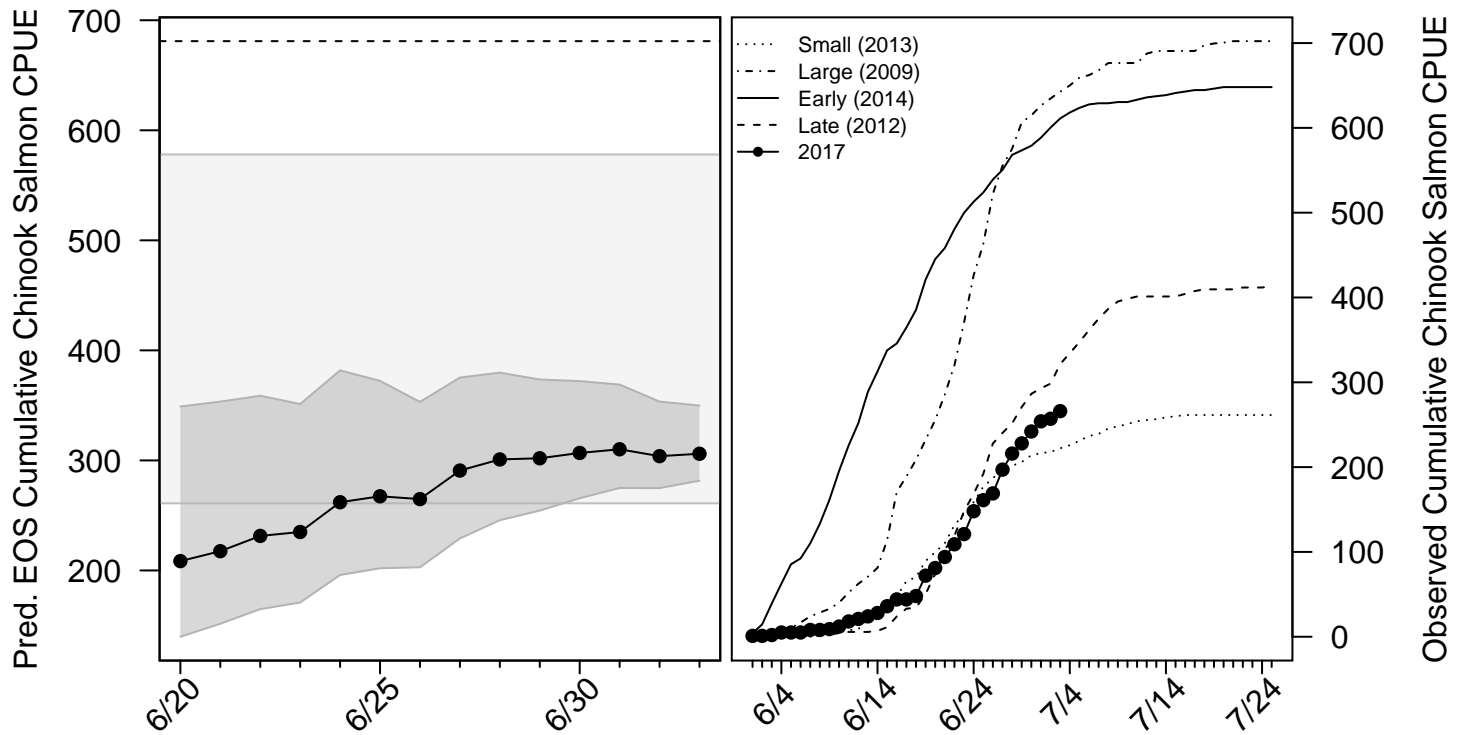
- **USFWS:** https://www.fws.gov/refuge/yukon_delta/wildlife_and_habitat/dailyupdate.html
- **ADF&G:** http://www.adfg.alaska.gov/index.cfm?adfg=cfnews_mobile.main

Informational Packet

Chinook Salmon (7/3)

- The BTF daily CPUE was **9**.
- The BTF cumulative CPUE is **266**.
- **1** year since 2008 (**11%**) fell below this cumulative CPUE.
- **87%** of the run is complete based on historical average run timing.
- The Chinook salmon run timing appears to be later than average.
- **6 - 10%** of the run is expected to pass in the next 5 days.
- Over the last 3 days, Chinook salmon made up **3%** of the BTF catches, compared to **4%** on average.

Chinook Salmon Figure 1. *Left:* predicted cumulative EOS BTF CPUE according to various run timing scenarios: central 80% (dark grey region) and historical median (circles) . The light grey region shows the range of EOS values from 2010 - 2013, which indexed run sizes past Bethel ranging from 66,000 to 102,000. The dashed horizontal line shows the EOS value from 2016. *Right:* The cumulative BTF CPUE from 2017 plotted along with four previous years intended to represent a range of early/late and small/large index values.



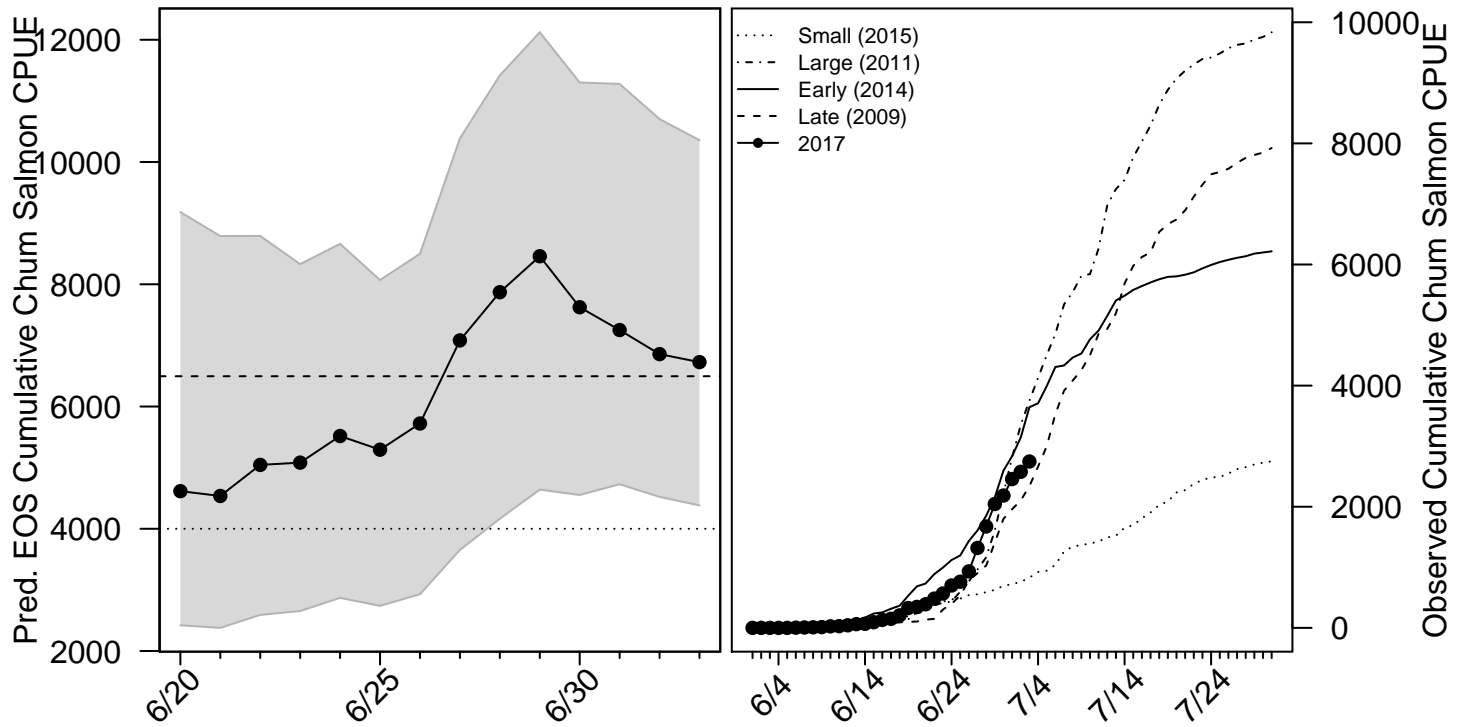
For more detailed information, see the Chinook salmon appendix at the end of this document.

Informational Packet

Chum Salmon (7/3)

- The BTF daily CPUE was **170**.
- The BTF cumulative CPUE is **2,747**.
- **5** years since 2008 (**56%**) fell below this cumulative CPUE.
- **41%** of the run is complete based on historical average run timing.
- No run timing forecast is available for chum salmon.
- **21 - 22%** of the run is expected to pass in the next 5 days.
- Over the last 3 days, chum salmon made up **69%** of the BTF catches, compared to **65%** on average.

Chum Figure 1. *Left:* predicted cumulative EOS BTF CPUE according to various run timing scenarios: central 80% (grey region) and historical median (circles). The dotted horizontal line shows the EOS value above which the escapement goal at Kogrukluuk has always been met historically. The dashed horizontal line shows the average since 2008. *Right:* The cumulative BTF CPUE from 2017 plotted along with four years intended to represent a range of early/late and small/large index values.



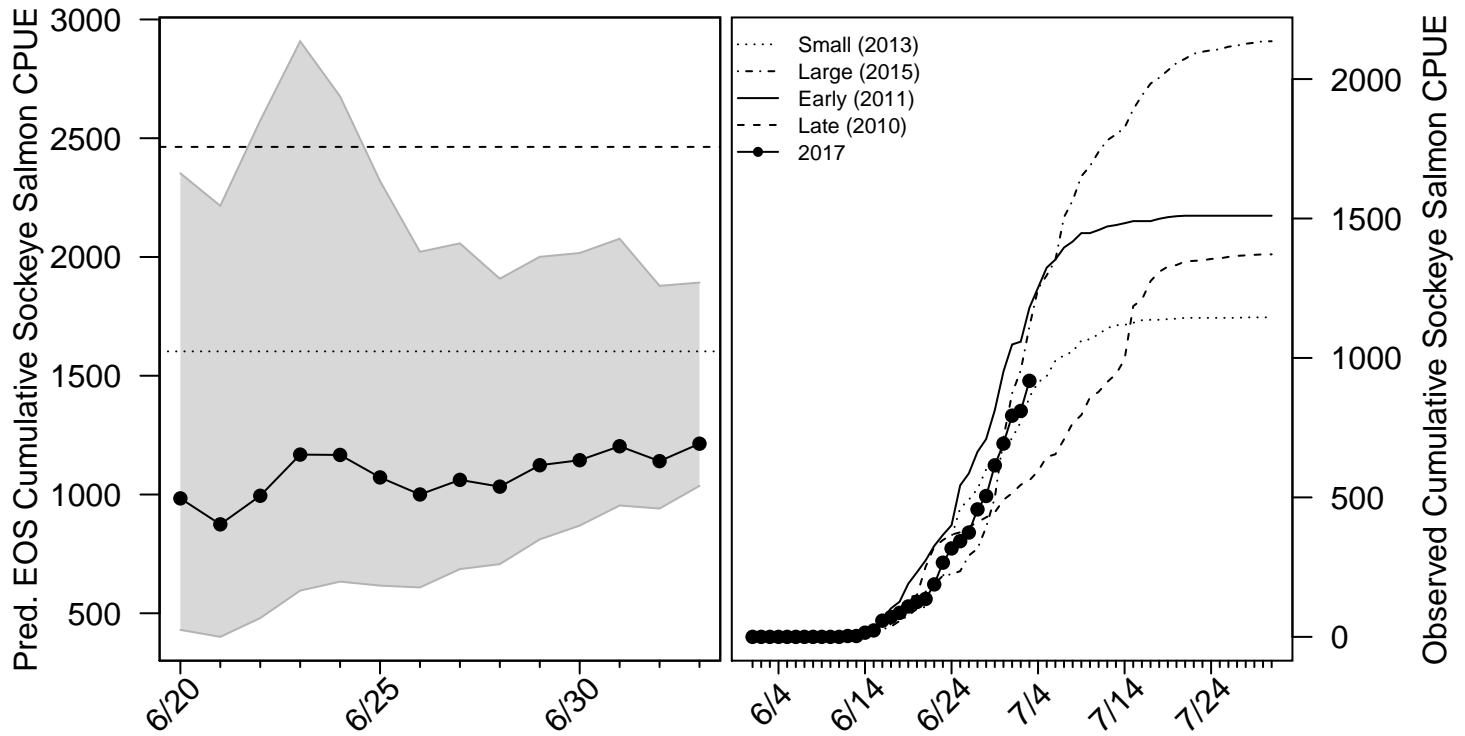
For more detailed information, see the chum salmon appendix at the end of this document.

Informational Packet

Sockeye Salmon (7/3)

- The BTF daily CPUE was **108**.
- The BTF cumulative CPUE is **918**.
- **4** years since 2008 (**44%**) fell below this cumulative CPUE.
- **76%** of the run is complete based on historical average run timing.
- No run timing forecast is available for sockeye salmon.
- **11 - 21%** of the run is expected to pass in the next 5 days.
- Over the last 3 days, sockeye salmon made up **28%** of the BTF catches, compared to **31%** on average.

Sockeye Figure 1. *Left:* predicted cumulative EOS BTF CPUE according to various run timing scenarios: central 80% (grey region) and the historical median. The dashed horizontal line shows the EOS value from 2016 and the dotted horizontal line shows the average since 2008. *Right:* The cumulative BTF CPUE from 2017 plotted along with four years intended to represent a range of early/late and small/large index values.



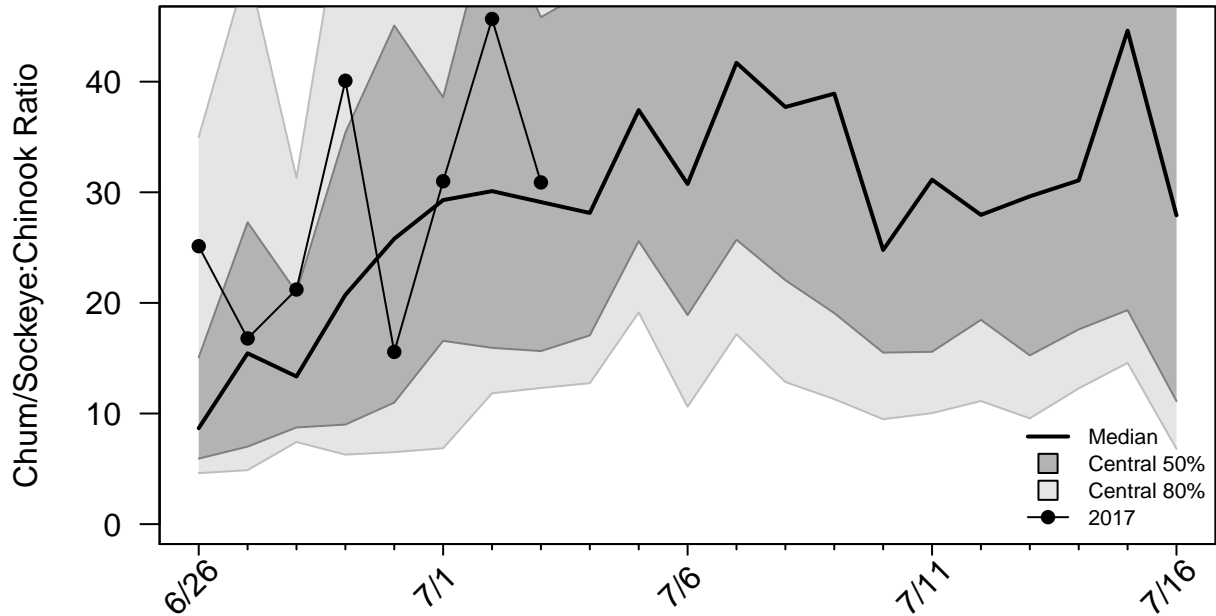
For more detailed information, see the sockeye salmon appendix at the end of this document.

Informational Packet

Chum/Sockeye:Chinook Salmon Ratio

This ratio is calculated by dividing the total number of chum and sockeye salmon counted by the number of Chinook salmon counted by a project. A value of zero indicates Chinook salmon were counted, but not chum or sockeye salmon. A missing value on a day the project operated indicates no Chinook salmon were counted.

Ratio Figure 1. Time series of the species ratio with historical quantiles shown as grey regions and the ratio time series for 2017 shown with points connected by lines.



Ratio Table 1. A subset of the species ratios displayed in **Ratio Figure 1**, including the ratios from the sonar project and ATF.

Date	2017 BTF	BTF Median	BTF Lower 10%	BTF Upper 10%	2017 Sonar	2017 ATF
6/30	15.57	25.8	6.51	63.24	72.8	0.21
7/1	31	29.3	6.86	59.34	86.47	1.47
7/2	45.67	30.1	11.83	85.98	174.24	1.88
7/3	30.89	29.11	12.31	77.9		2.35
7/4		28.13	12.74	95.28		
7/5		37.43	19.14	77.01		
7/6		30.75	10.61	117.4		

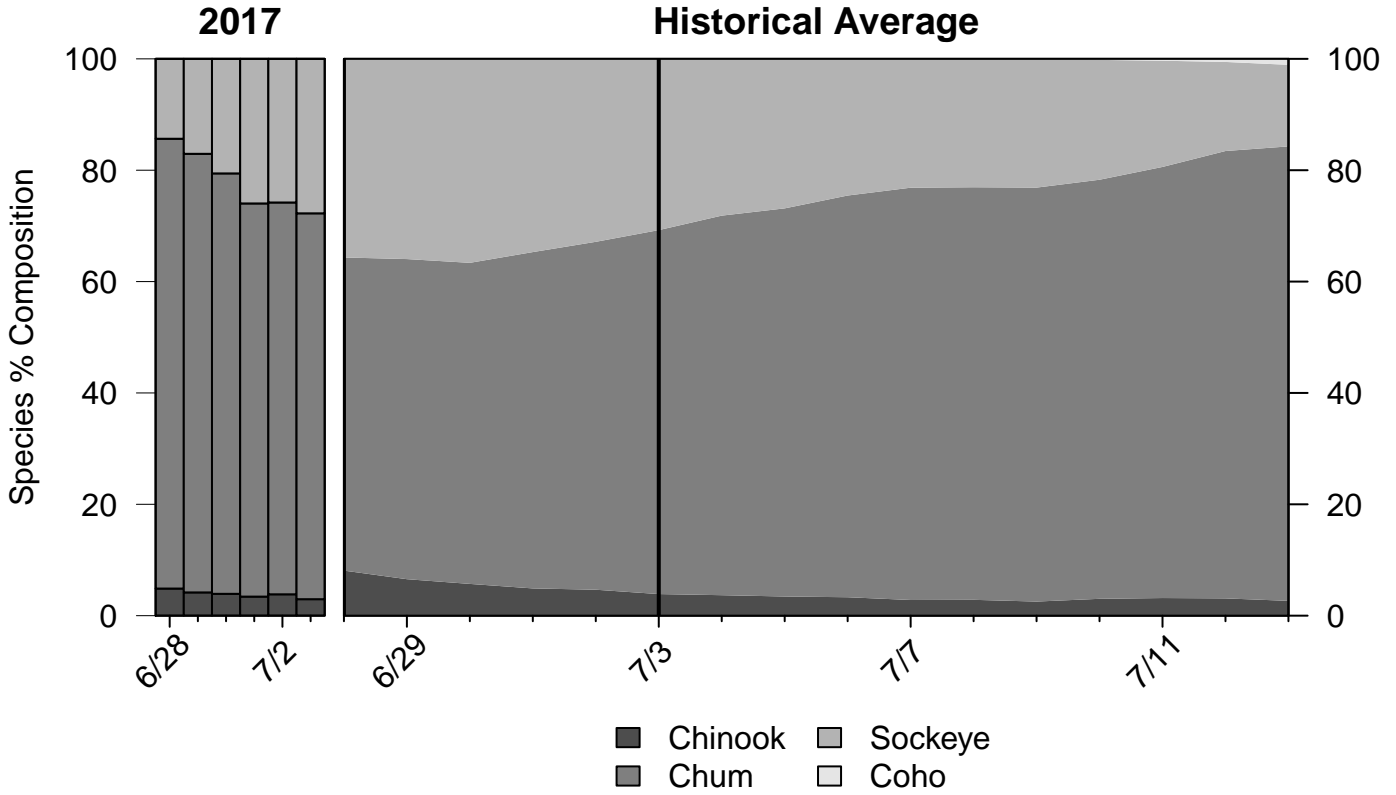
Ratio Table 2. The probability that a given species ratio will be exceeded by a certain day in the BTF (calculated based on all previous years: 1984 - 2016).

Date	Ratio > 20	Ratio > 30	Ratio > 40
6/30	0.82	0.73	0.61
7/1	0.88	0.85	0.67
7/2	0.88	0.85	0.76
7/3	0.91	0.85	0.79
7/4	0.94	0.88	0.79
7/5	0.97	0.91	0.85
7/6	0.97	0.94	0.85

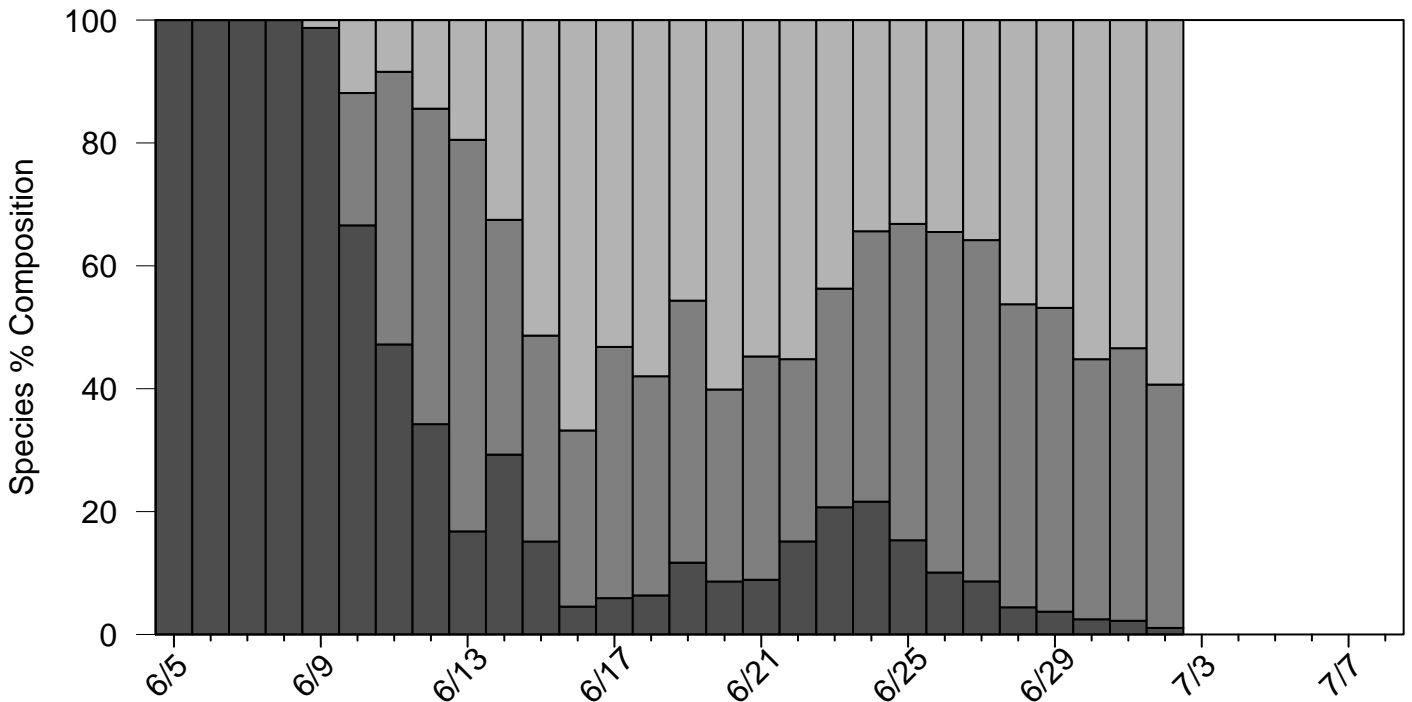
Informational Packet

Species Composition

Species Composition Figure 1. Species percent composition in the BTF from 2017 and based on historical average. The composition presented on each day represents the average composition over the past 3 days.



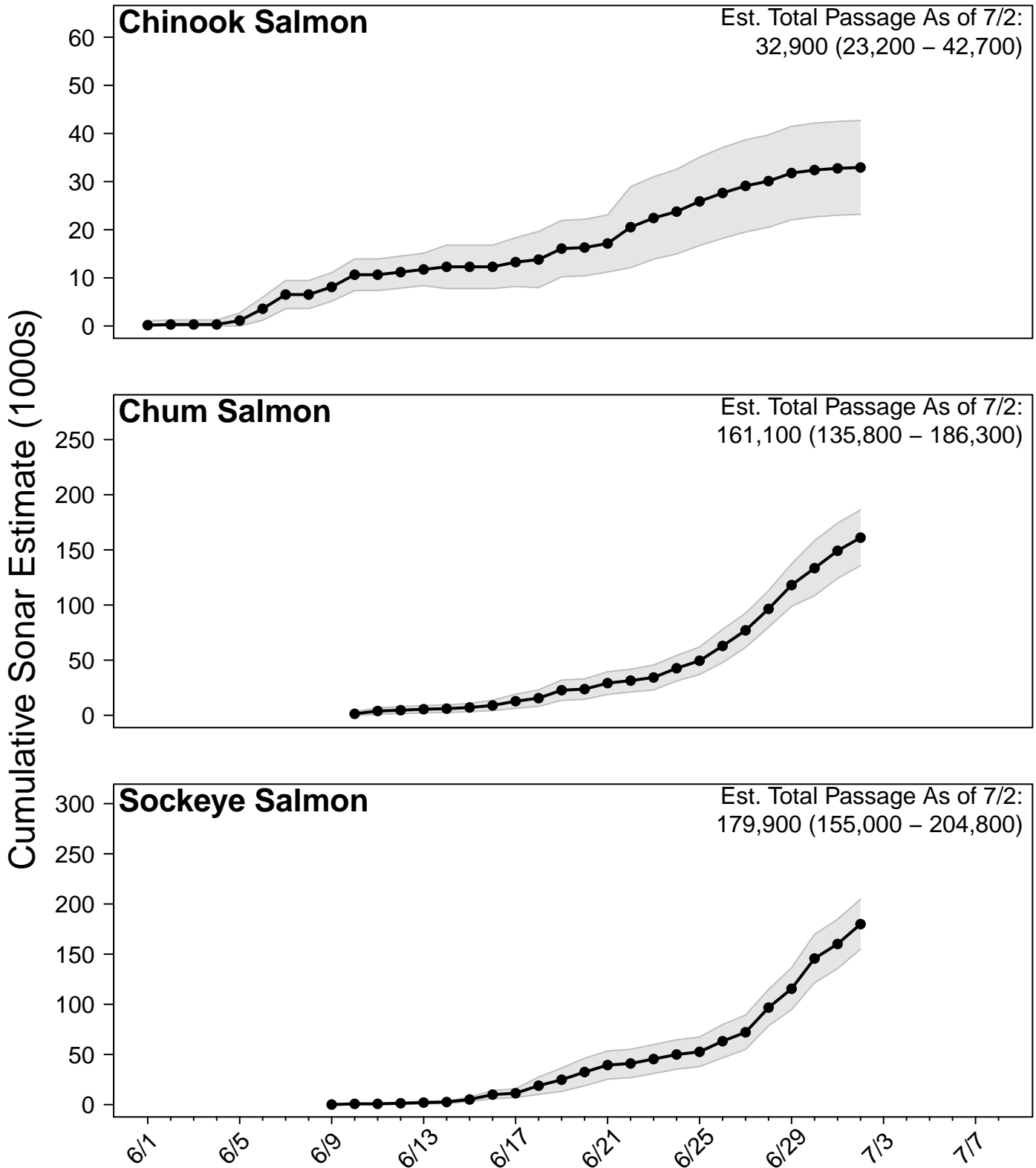
Species Composition Figure 2. Species percent composition from the sonar estimates from 2017 (salmon species only, excluding pinks). The composition presented on each day represents the average composition over the past 3 days.



Informational Packet

Sonar

Sonar Figure 1. Cumulative estimates of salmon passage from the 2017 sonar operation through the last complete reporting day. Grey bands show the 95% confidence intervals on each complete reporting day. The sonar project began partial operations on June 1 and full operations on June 3.



Informational Packet

Chinook Salmon Appendix

Chinook Salmon Table A1. Cumulative CPUE from the BTF.

Date	2017	2016	2015	2014	2013	5-Yr Avg.	2008 - 2016 Avg.
6/30	242	499	431	579	214	402	432
7/1	254	510	444	588	217	410	443
7/2	257	522	456	600	218	419	452
7/3	266	531	465	611	222	430	464
7/4		542	484	618	226	441	475
7/5		564	493	624	231	452	486
7/6		578	504	628	237	461	494
EOS		687	625	650	261	528	557

Chinook Salmon Table A2. Cumulative CPUE from the ATF.

Date	2017	2016	2015
6/30	3,718	1,964	2,251
7/1	3,996	2,056	2,286
7/2	4,258	2,207	2,381
7/3	4,522	2,267	2,408
7/4		2,372	2,467
7/5		2,418	2,526
7/6		2,479	2,585
EOS		2,729	2,916

Chinook Salmon Table A3. Percent of run complete according to various historical run timing scenarios.

Timing	Midpoint	7/3 Cumulative %
Earliest	6/15	98%
Early 10%	6/18	94%
Early 25%	6/21	91%
Median	6/23	87%
Late 25%	6/24	82%
Late 10%	6/26	76%
Latest	7/3	53%

Informational Packet

Chum Salmon Appendix

Chum Salmon Table A1. Cumulative CPUE from the BTF.

Date	2017	2016	2015	2014	2013	5-Yr Avg.	2008 - 2016 Avg.
6/30	2,185	747	695	2,596	1,297	1,505	1,670
7/1	2,457	817	722	2,836	1,349	1,615	1,895
7/2	2,577	886	760	3,144	1,553	1,799	2,134
7/3	2,747	943	829	3,644	1,812	1,997	2,399
7/4		1,028	923	3,707	2,116	2,154	2,632
7/5		1,166	944	3,992	2,496	2,367	2,880
7/6		1,290	1,041	4,307	2,726	2,558	3,116
EOS		3,894	2,943	6,343	5,708	5,156	6,496

Chum Salmon Table A2. Cumulative CPUE from the ATF.

Date	2017	2016	2015
6/30	2,221	1,318	944
7/1	2,629	1,769	969
7/2	3,112	1,915	1,037
7/3	3,724	2,091	1,379
7/4		2,429	1,568
7/5		2,655	1,748
7/6		2,937	2,048
EOS		5,304	5,669

Chum Salmon Table A3. Percent of run complete according to various historical run timing scenarios.

Timing	Midpoint	7/3 Cumulative %
Earliest	6/24	85%
Early 10%	7/1	63%
Early 25%	7/3	52%
Median	7/6	41%
Late 25%	7/7	32%
Late 10%	7/10	27%
Latest	7/12	18%

Informational Packet

Sockeye Salmon Appendix

Sockeye Salmon Table A1. Cumulative CPUE from the BTF.

Date	2017	2016	2015	2014	2013	5-Yr Avg.	2008 - 2016 Avg.
6/30	693	437	713	585	674	585	661
7/1	793	547	873	697	712	685	749
7/2	810	615	955	800	770	758	820
7/3	918	699	1,113	954	860	863	912
7/4		781	1,248	1,041	913	942	984
7/5		879	1,296	1,129	935	1,004	1,048
7/6		932	1,351	1,160	990	1,063	1,105
EOS		2,463	2,157	1,367	1,146	1,661	1,603

Sockeye Salmon Table A2. Cumulative CPUE from the ATF.

Date	2017	2016	2015
6/30	126	26	160
7/1	126	61	177
7/2	135	69	205
7/3	145	77	257
7/4		110	290
7/5		146	393
7/6		171	584
EOS		405	1,245

Sockeye Salmon Table A3. Percent of run complete according to various historical run timing scenarios.

Timing	Midpoint	7/3 Cumulative %
Earliest	6/23	95%
Early 10%	6/24	89%
Early 25%	6/26	84%
Median	6/28	76%
Late 25%	6/30	65%
Late 10%	7/3	49%
Latest	7/11	25%

Informational Packet

Subsistence Division Update to the Working Group, 7/05/2017

Subsistence salmon fishing opening statistics July 1 and 3, 2017

Sample fishers from:

Lower Kuskokwim – Nunapitchuk, Napakiak, Napaskiak, Oscarville, Bethel

Middle Kusko – Kalskag, Aniak, Chuathbaluk

Table 1a

Sample harvest amounts, July 1	Lower Kusko	Kalskag
<i>n</i> fishers	6	9
Total drifts recorded	10	33
Sample Chinook harvest	7	32
Sample chum harvest	337	335
Sample sockeye harvest	125	80
Sample (chum+sockeye) harvest	462	415
Sample all salmon harvest	469	447

Table 1b

Sample harvest amounts, July 3	Lower Kusko	KLK/ANI/CHU
<i>n</i> fishers	9	9
Total drifts recorded	15	35
Sample Chinook harvest	1	54
Sample chum harvest	311	438
Sample sockeye harvest	140	135
Sample (chum+sockeye) harvest	451	573
Sample all salmon harvest	452	627

Total numbers of salmon harvested by volunteer fishers in the lower Kuskokwim from the Kwethluk-Y to 3 miles below Fowler Island, and in the middle Kuskokwim near Kalskag, Aniak, and Chuathbaluk for openings on July 1 (Table 1a) and July 3 (Table 1b).

Table 2a

Sample catch rates, July 1 (150 ft fished for 1 hr)	Lower Kusko	Kalskag
Avg total fishing time/fisher	0:53	1:13
Avg fisher CPUE Chinook	1.08	2.65
Avg fisher CPUE chum	92.53	29.01
Avg fisher CPUE sockeye	35.91	5.55
Avg fisher CPUE chum+sockeye	128.44	34.56
Avg fisher CPUE all salmon	129.52	37.21

Table 2b

Sample catch rates, July 3 (150 ft fished for 1 hr)	Lower Kusko	KLK/ANI/CHU
Avg total fishing time/fisher	0:50	1:31
Avg fisher CPUE Chinook	0.44	4.89
Avg fisher CPUE chum	57.44	66.71
Avg fisher CPUE sockeye	20.74	26.53
Avg fisher CPUE chum+sockeye	78.18	93.24
Avg fisher CPUE all salmon	78.62	98.13

Average catch rates per fisher in sections of the lower and middle Kuskokwim for openings on July 1 (Table 2a) and July 3 (Table 2b).

Table 3a

Average harvests/fisher, July 1	Lower Kusko	Kalskag
Avg Chinook/fisher	1	4
Avg chum/fisher	56	37
Avg sockeye/fisher	21	9
Avg (chum+sockeye)/fisher	77	46
Avg total salmon/fisher	78	50
Avg catch ratio (ChumSock:Chinook)	66:1	13:1

Table 3b

Average harvests/fisher, July 3	Lower Kusko	KLK/ANI/CHU
Avg Chinook/fisher	<1	4
Avg chum/fisher	35	37
Avg sockeye/fisher	16	9
Avg (chum+sockeye)/fisher	51	46
Avg total salmon/fisher	51	50
Avg catch ratio (ChumSock:Chinook)	451:1	11:1

Average numbers of salmon harvested per fisher and average harvest ratio of chum and sockeye to Chinook in sections of the lower and middle Kuskokwim for openings on July 1 (Table 3a) and July 3 (Table 3b).

Informational Packet

Subsistence Division Update to the Working Group, 7/05/2017

Households' reported progress toward harvest goals as of July 3, 2017

Sample fishers from:

Lower Kuskokwim – Nunapitchuk, Napakiak, Napaskiak, Oscarville, Bethel

Middle Kusko – Kalskag, Aniak, Chuathbaluk

To assess how sample households are progressing toward their goals for total salmon harvest for the season, fishers were asked the following question: *How far along is your household with salmon fishing this year?* Each person was asked to choose from one of the following possible responses: *Just starting, one quarter, one half, three quarters, or done*. Several fishers also volunteered that they are done catching Chinook, chum, and sockeye, but were waiting to harvest coho once they arrive. Figure 1 shows results from lower Kuskokwim fishers, Figure 2 from middle Kuskokwim fishers.

Figure 1

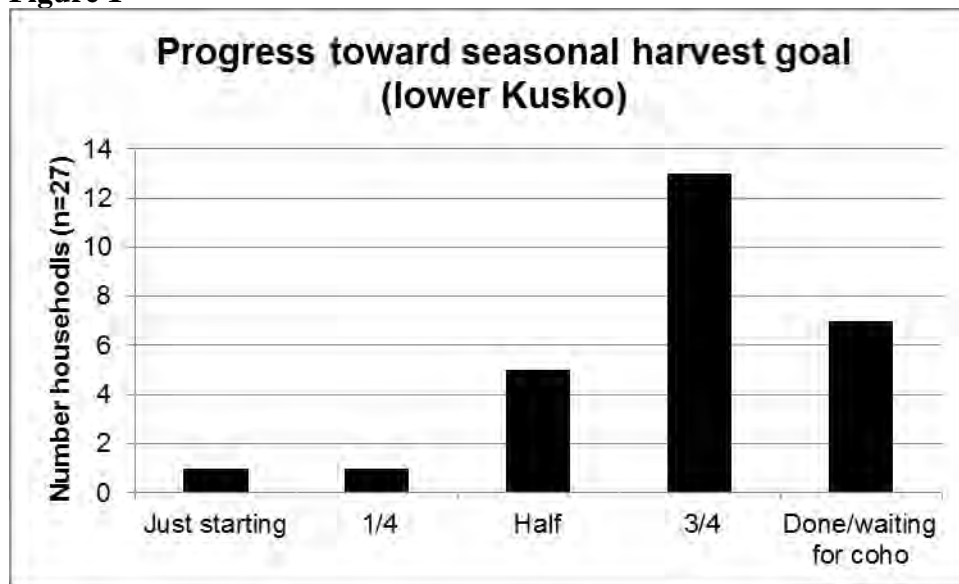
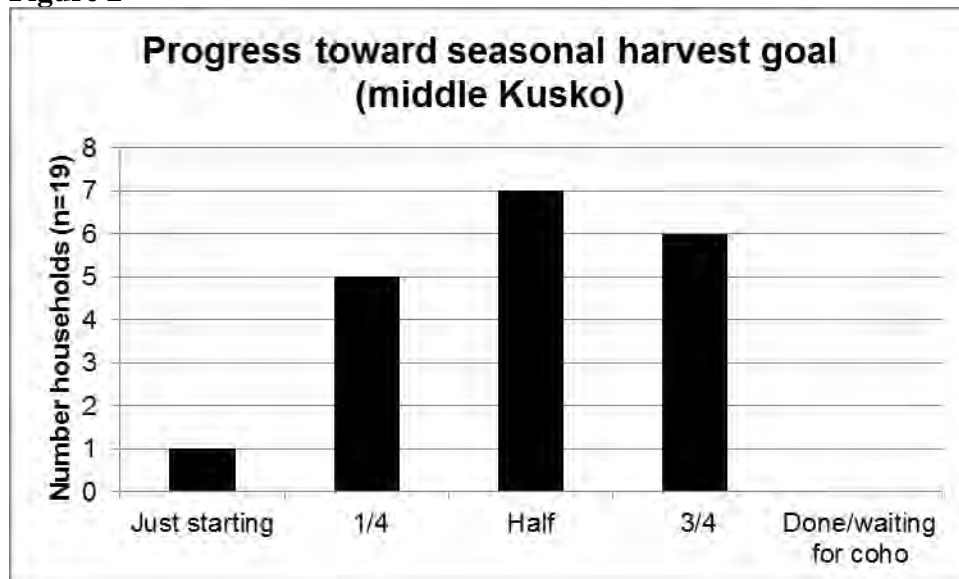


Figure 2



Supplemental Kuskokwim River Salmon Escapement Data

Salmon escapement projects are located upriver from where the majority of salmon harvest occurs. As such, 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>

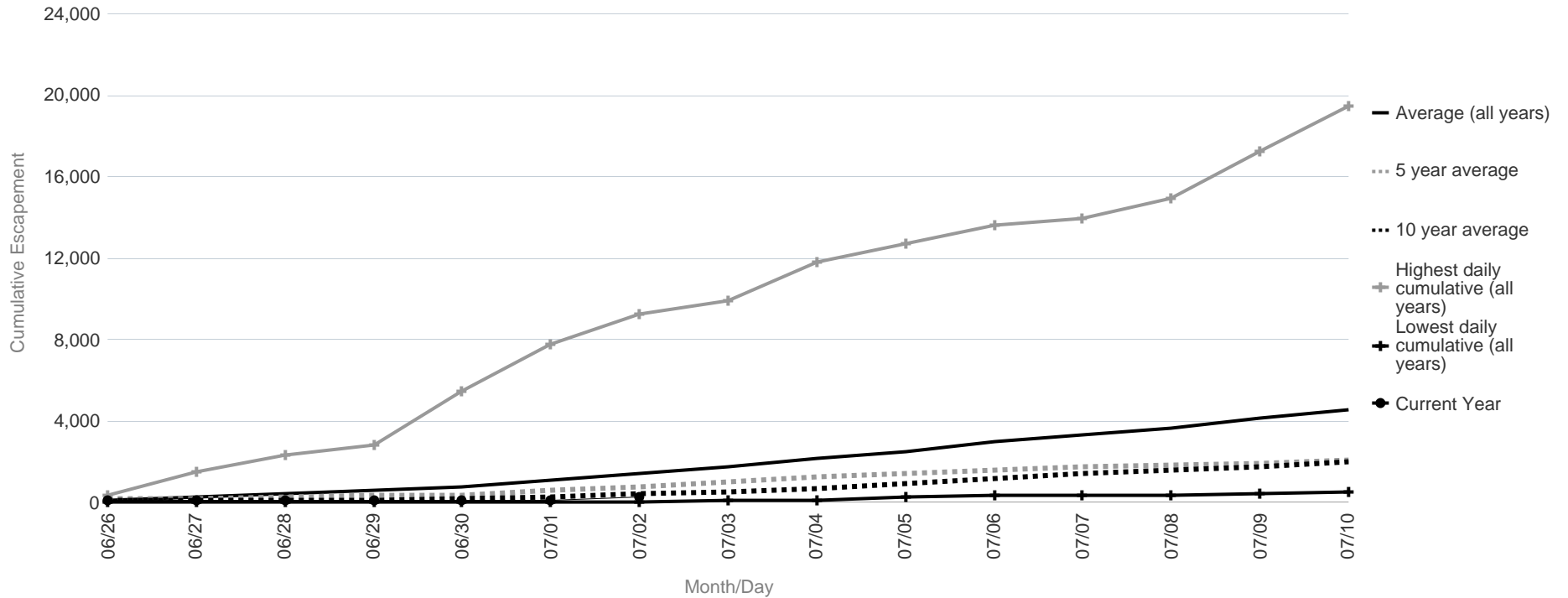
Kwethluk River Salmon Monitoring Project Cumulative Daily Passage of Chinook Salmon

Escapement Goal Range: 4,100 to 7,500

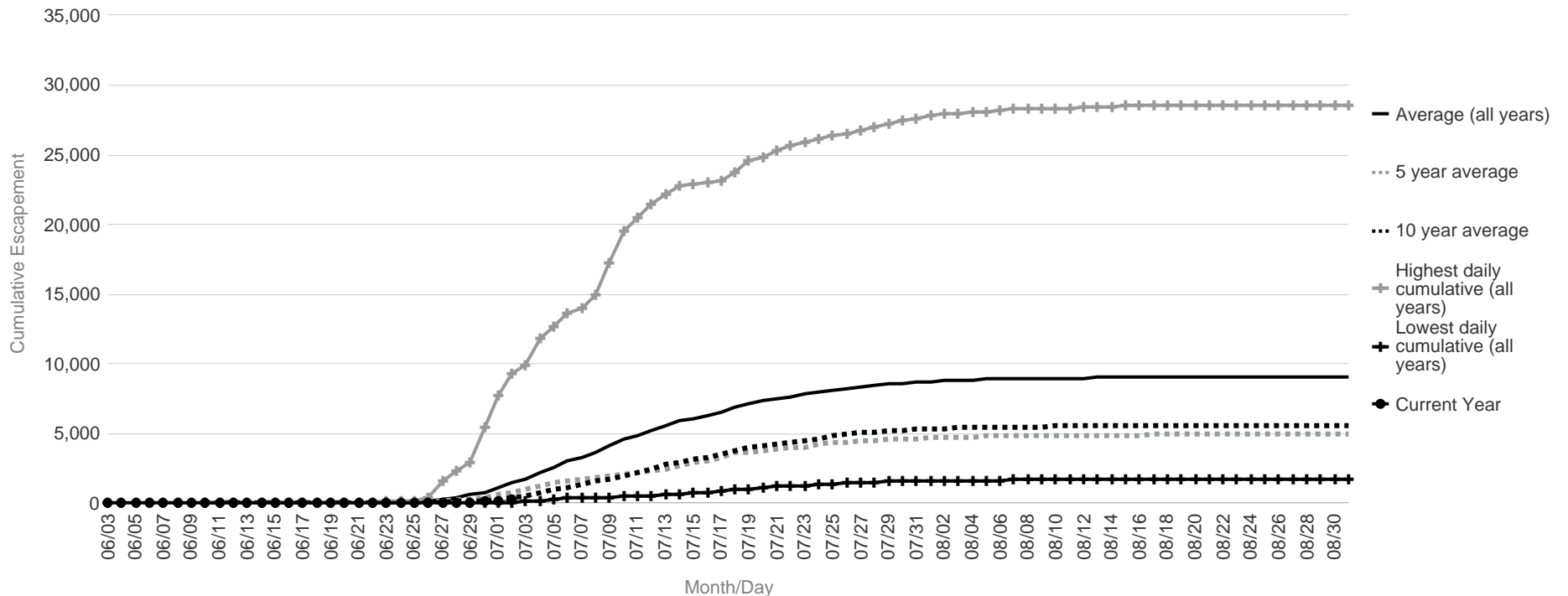
Date	Lowest daily cumulative (all years)	Average (all years)	5 year average	10 year average	Highest daily cumulative (all years)	Current Year
06/26	0	93	173	72	327	64
06/27	0	236	185	79	1,528	64
06/28	0	398	253	112	2,322	67
06/29	2	580	318	128	2,860	68
06/30	8	779	380	168	5,460	91
07/01	18	1,074	620	278	7,774	136
07/02	32	1,430	787	386	9,257	277
07/03	81	1,749	1,020	527	9,951	
07/04	135	2,141	1,280	704	11,804	
07/05	292	2,530	1,439	961	12,700	
07/06	360	2,984	1,617	1,144	13,621	
07/07	361	3,285	1,714	1,376	13,960	
07/08	372	3,614	1,815	1,584	14,968	
07/09	405	4,123	1,930	1,755	17,294	
07/10	522	4,540	2,037	1,979	19,489	

	Lowest Count	Average Count	5 Year Average	10 Year Average	Highest Count
Season Total	1,668	9,073	4,968	5,575	28,605

Focused Two-Week Data View



Season Total Overview

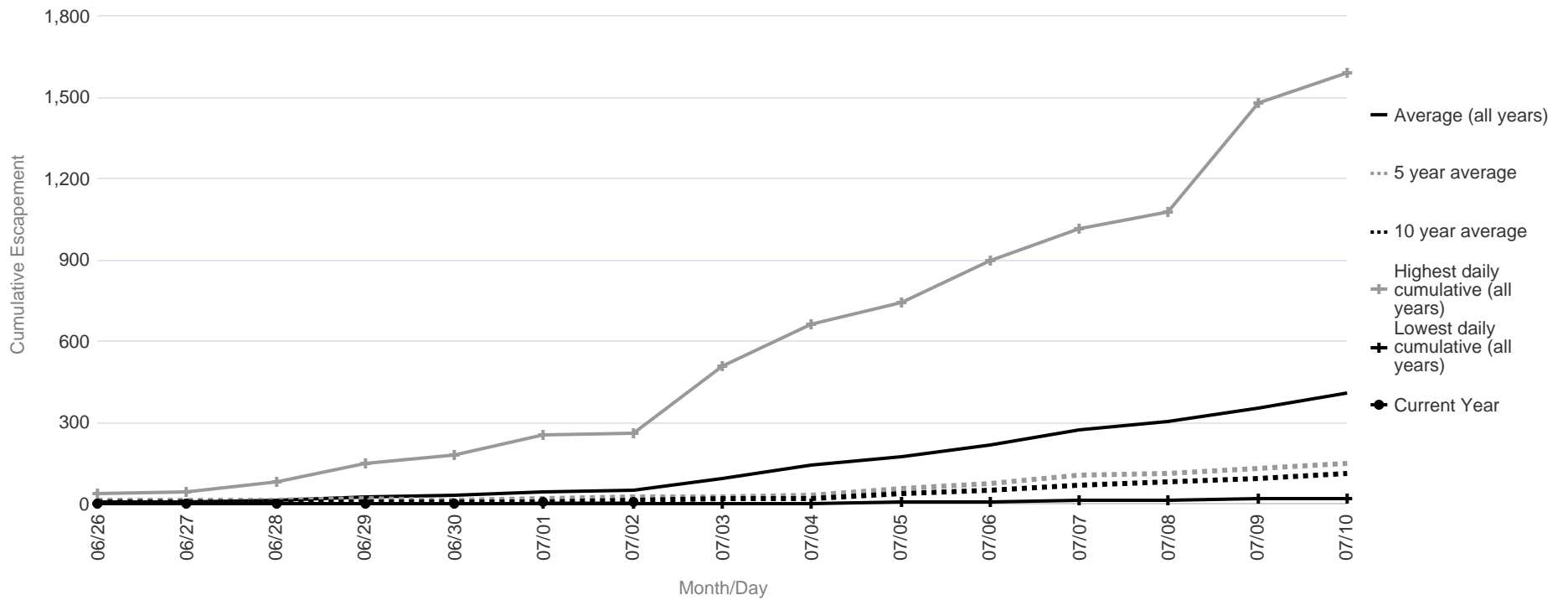


Tuluksak River Salmon Monitoring Project Cumulative Daily Passage of Chinook Salmon

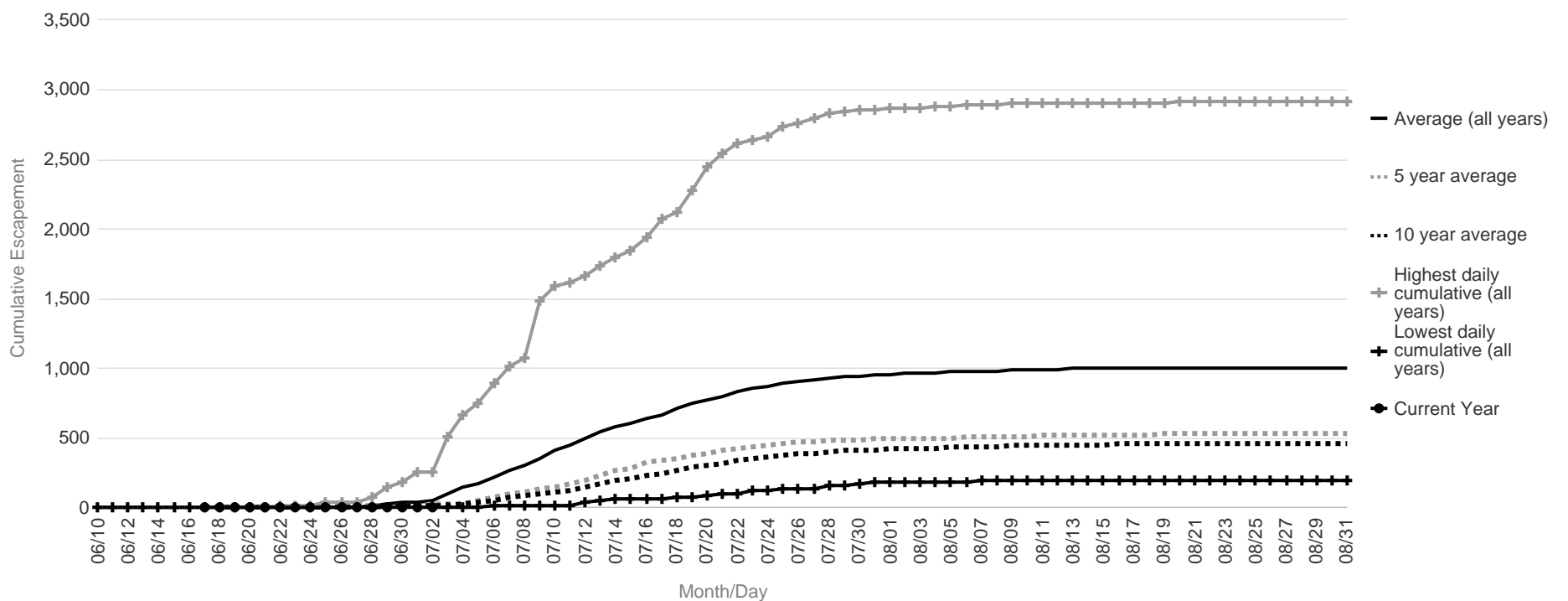
Date	Lowest daily cumulative (all years)	Average (all years)	5 year average	10 year average	Highest daily cumulative (all years)	Current Year
06/26	0	5	15	7	41	4
06/27	0	7	13	7	42	4
06/28	0	14	14	7	80	4
06/29	0	25	19	8	149	4
06/30	0	33	16	8	180	4
07/01	0	43	19	10	255	5
07/02	0	52	24	15	259	8
07/03	2	96	27	17	511	
07/04	3	141	31	22	665	
07/05	5	174	55	38	744	
07/06	10	216	74	51	896	
07/07	12	271	104	69	1,018	
07/08	16	304	113	81	1,078	
07/09	17	355	131	95	1,483	
07/10	17	409	152	112	1,592	

	Lowest Count	Average Count	5 Year Average	10 Year Average	Highest Count
Season Total	193	1,005	538	461	2,918

Focused Two-Week Data View



Season Total Overview

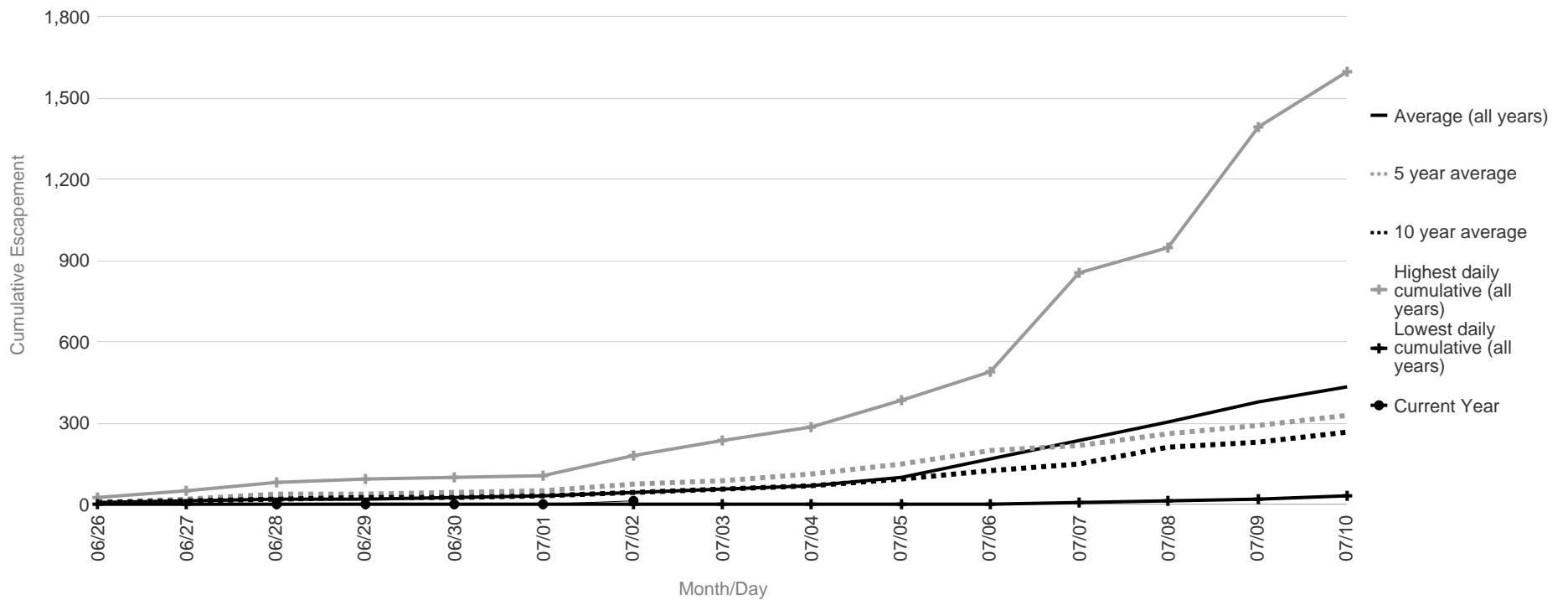


Salmon River (Aniak) Salmon Monitoring Project Cumulative Daily Passage of Chinook Salmon

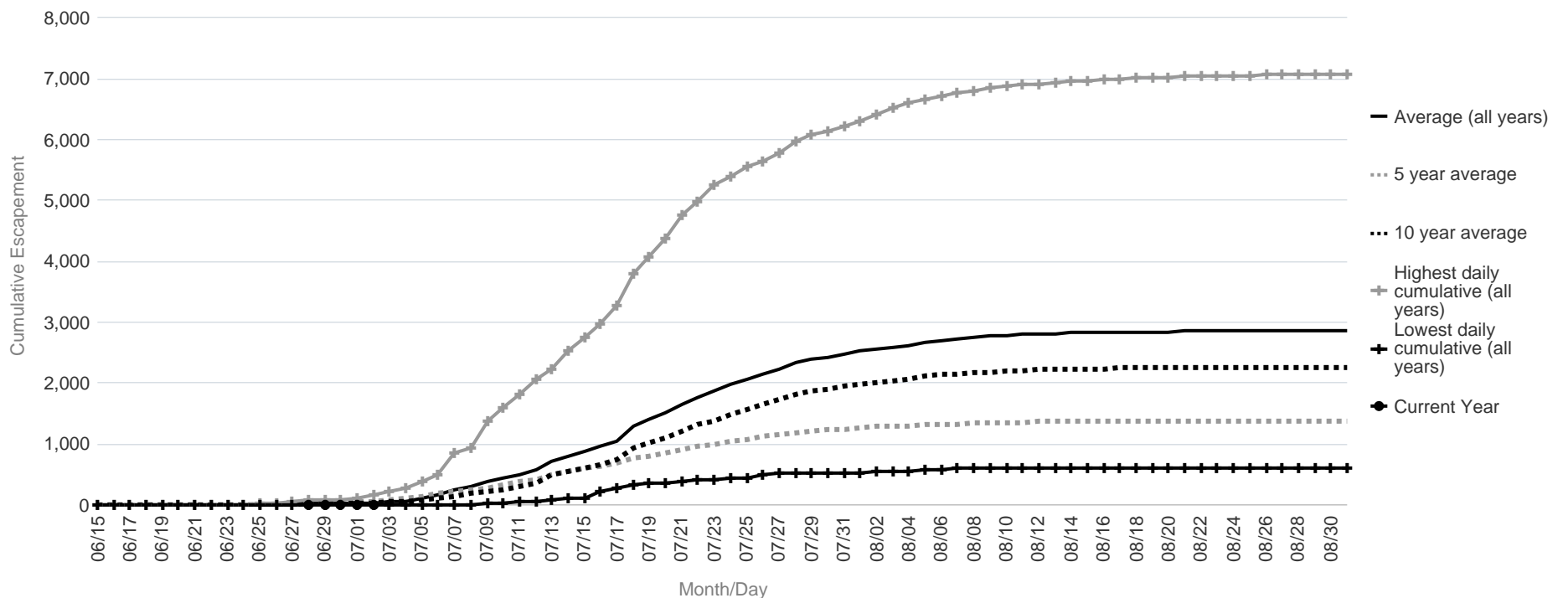
Date	Lowest daily cumulative (all years)	Average (all years)	5 year average	10 year average	Highest daily cumulative (all years)	Current Year
06/26	0	6	10	6	25	
06/27	0	11	20	12	53	
06/28	0	19	36	21	83	0
06/29	0	22	41	24	97	0
06/30	0	25	46	27	98	0
07/01	0	31	53	31	104	4
07/02	0	43	73	43	181	13
07/03	0	56	88	56	236	
07/04	0	72	113	72	288	
07/05	1	103	152	97	384	
07/06	3	165	197	125	493	
07/07	6	239	219	151	856	
07/08	11	302	264	210	947	
07/09	20	378	293	233	1,392	
07/10	33	432	328	265	1,599	

	Lowest Count	Average Count	5 Year Average	10 Year Average	Highest Count
Season Total	625	2,866	1,391	2,264	7,075

Focused Two-Week Data View



Season Total Overview



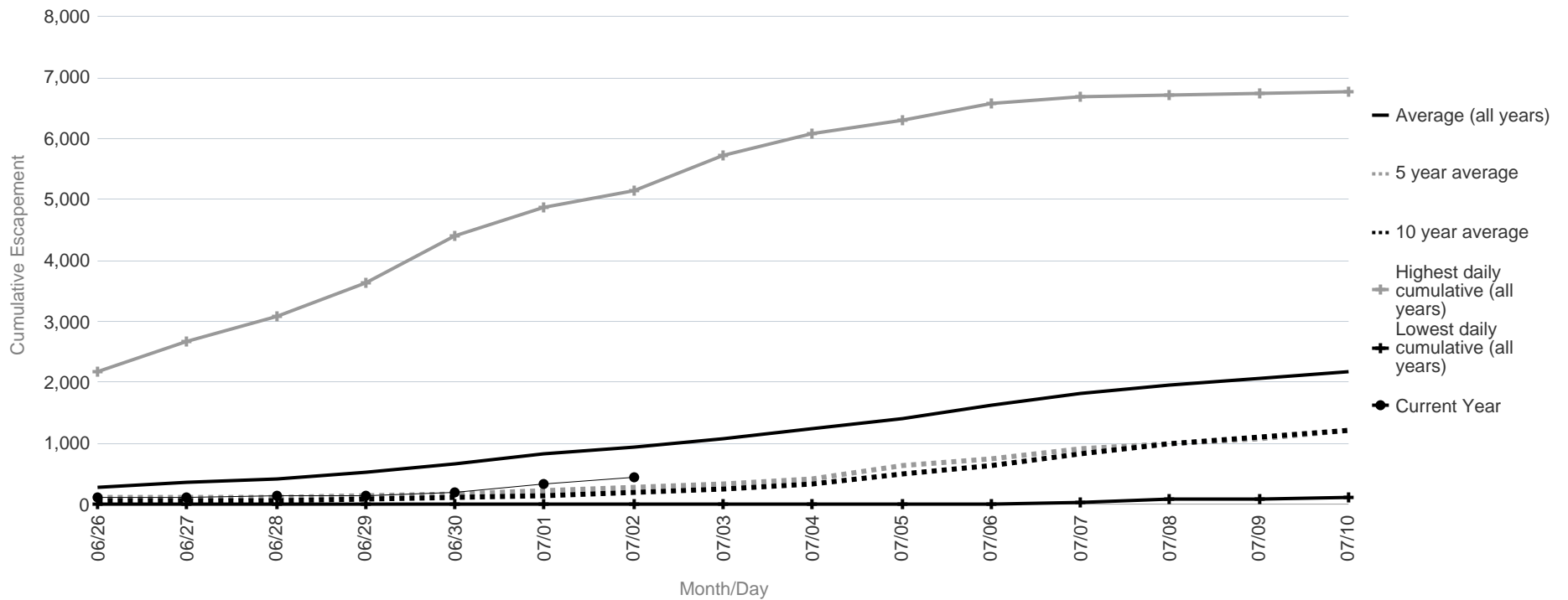
George River Salmon Monitoring Project Cumulative Daily Passage of Chinook Salmon

Escapement Goal Range: 1,800 to 3,300

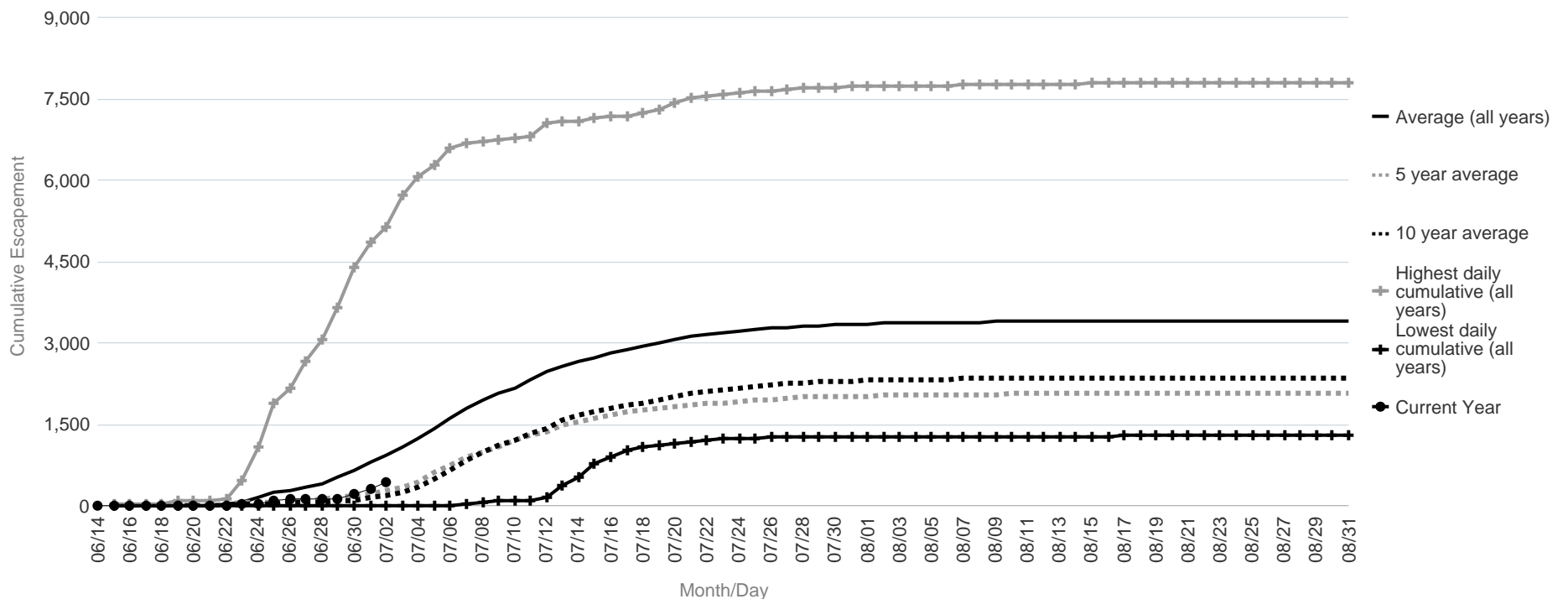
Date	Lowest daily cumulative (all years)	Average (all years)	5 year average	10 year average	Highest daily cumulative (all years)	Current Year
06/26	3	282	107	59	2,167	117
06/27	10	358	112	63	2,681	127
06/28	10	419	127	71	3,078	135
06/29	11	540	156	90	3,644	137
06/30	11	657	176	110	4,411	208
07/01	11	820	214	148	4,867	328
07/02	11	931	278	199	5,144	450
07/03	11	1,077	340	251	5,728	
07/04	12	1,231	429	338	6,075	
07/05	14	1,415	630	507	6,296	
07/06	18	1,616	743	645	6,590	
07/07	31	1,808	910	829	6,683	
07/08	81	1,951	996	989	6,717	
07/09	89	2,076	1,089	1,109	6,754	
07/10	102	2,174	1,209	1,222	6,783	

	Lowest Count	Average Count	5 Year Average	10 Year Average	Highest Count
Season Total	1,292	3,426	2,086	2,371	7,810

Focused Two-Week Data View



Season Total Overview



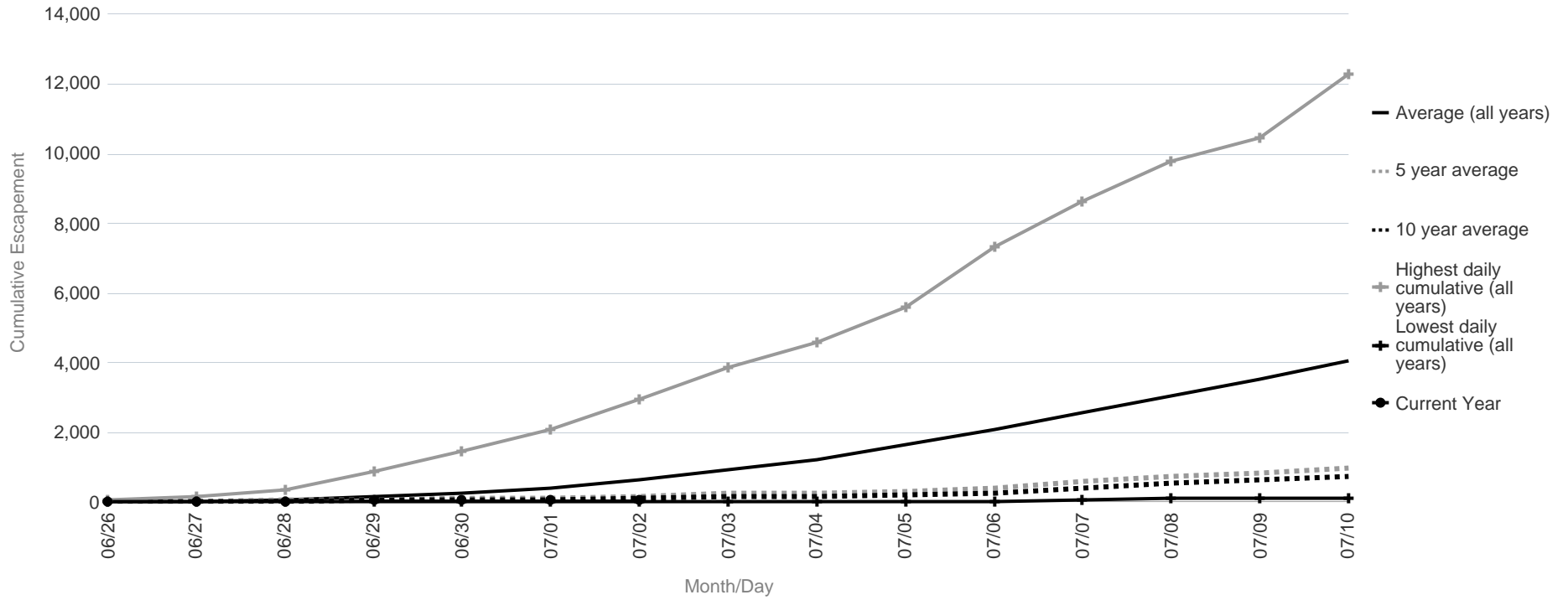
Kogrukluk River Salmon Monitoring Project Cumulative Daily Passage of Chinook Salmon

Escapement Goal Range: 4,800 to 8,800

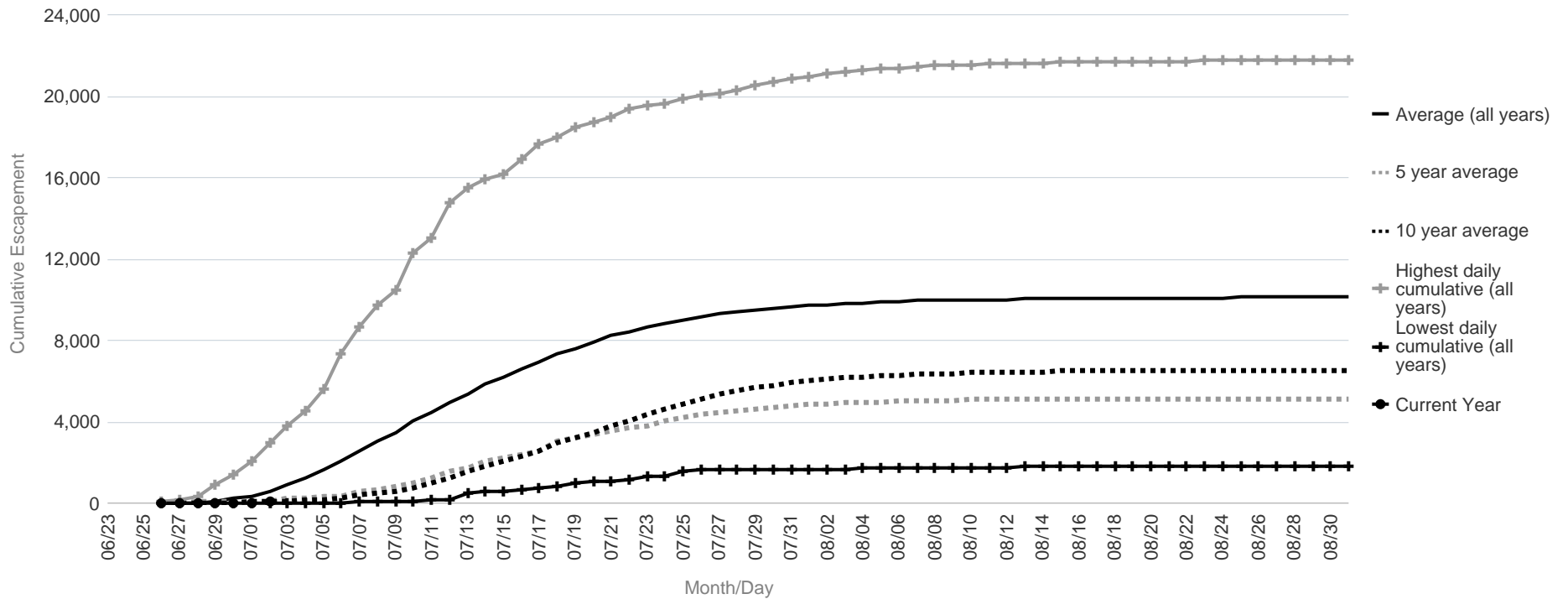
Date	Lowest daily cumulative (all years)	Average (all years)	5 year average	10 year average	Highest daily cumulative (all years)	Current Year
06/26	0	5	6	3	58	1
06/27	0	20	30	15	159	3
06/28	0	50	56	29	353	27
06/29	0	135	69	37	886	38
06/30	0	228	86	48	1,448	43
07/01	0	378	104	60	2,065	50
07/02	0	614	133	81	2,969	69
07/03	0	904	227	134	3,848	
07/04	1	1,221	264	161	4,588	
07/05	4	1,629	313	214	5,589	
07/06	21	2,086	375	261	7,343	
07/07	56	2,573	589	399	8,649	
07/08	83	3,038	714	520	9,782	
07/09	104	3,518	820	616	10,461	
07/10	116	4,034	964	744	12,287	

	Lowest Count	Average Count	5 Year Average	10 Year Average	Highest Count
Season Total	1,819	10,139	5,172	6,564	21,819

Focused Two-Week Data View



Season Total Overview

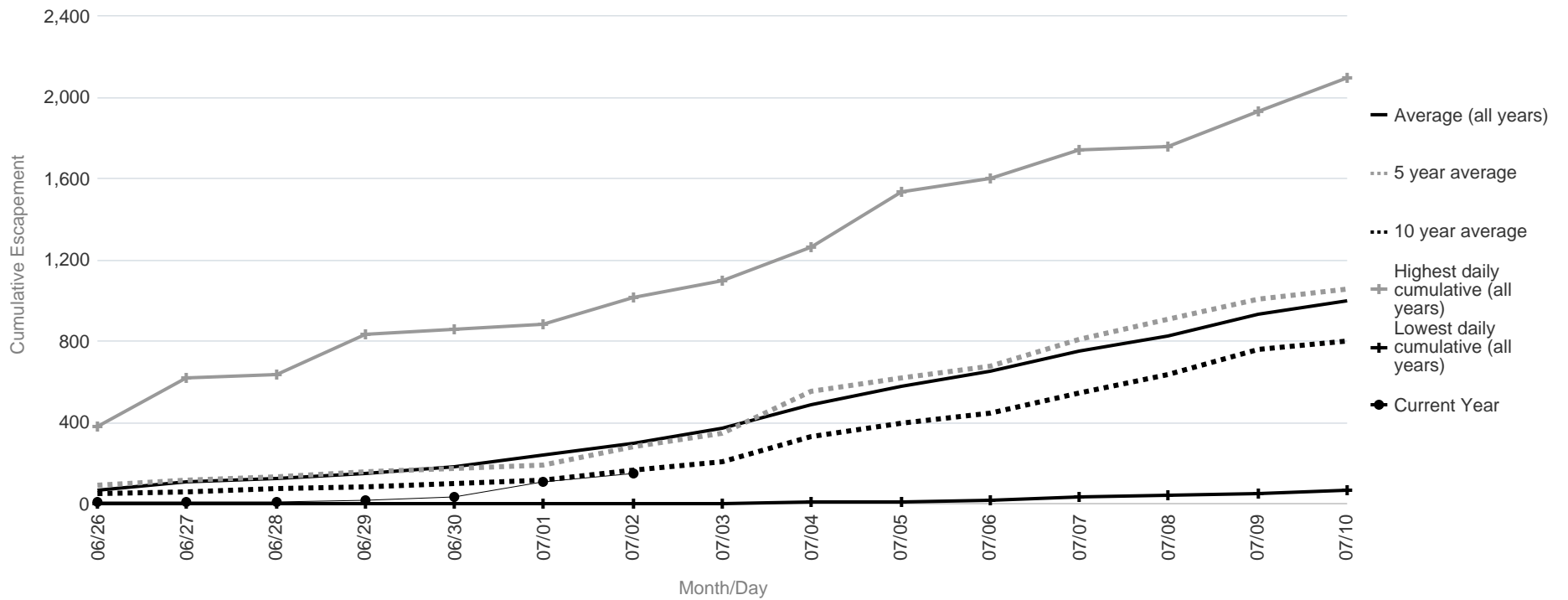


Tatlawiksuk River Salmon Monitoring Project Cumulative Daily Passage of Chinook Salmon

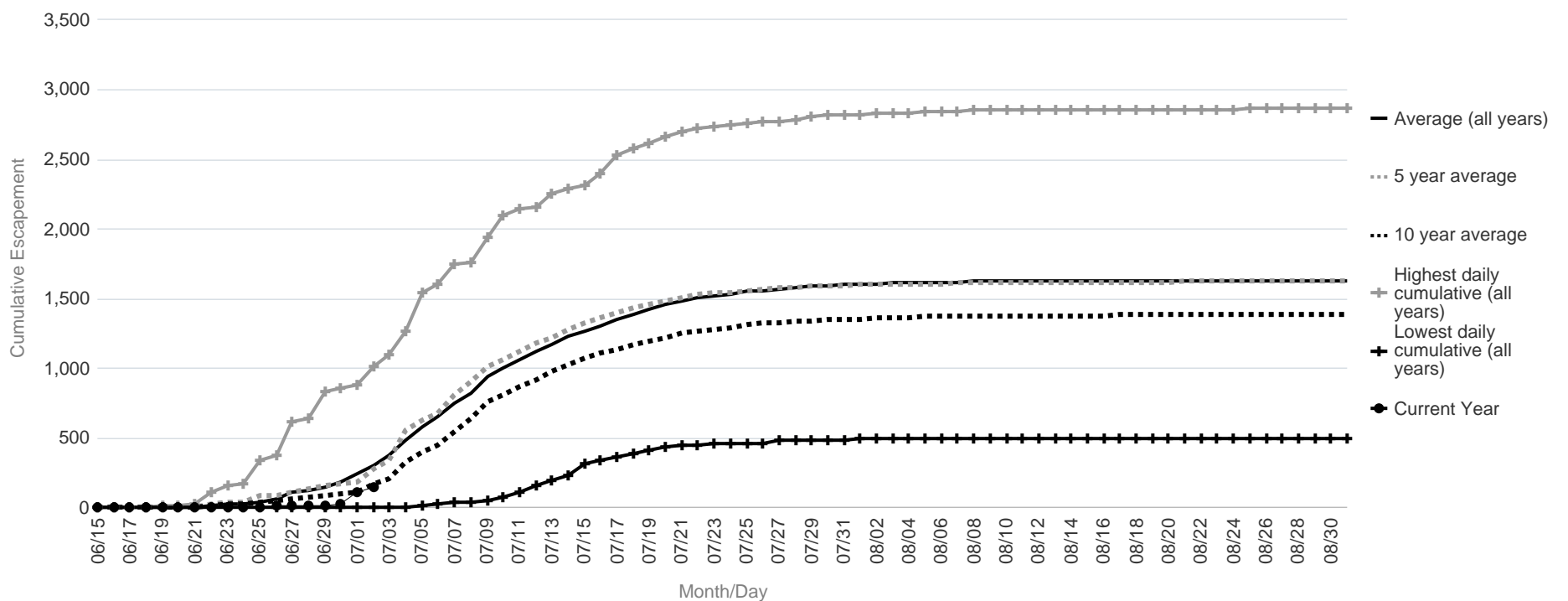
Date	Lowest daily cumulative (all years)	Average (all years)	5 year average	10 year average	Highest daily cumulative (all years)	Current Year
06/26	1	66	90	47	381	11
06/27	1	108	114	60	617	11
06/28	1	126	135	73	638	12
06/29	2	151	155	86	833	17
06/30	2	183	175	97	858	32
07/01	2	239	189	114	886	108
07/02	3	298	279	166	1,017	151
07/03	4	370	345	211	1,103	
07/04	7	485	558	332	1,268	
07/05	12	581	623	398	1,538	
07/06	21	656	679	446	1,602	
07/07	35	752	808	548	1,747	
07/08	43	826	909	639	1,757	
07/09	54	938	1,013	758	1,937	
07/10	70	998	1,058	805	2,102	

	Lowest Count	Average Count	5 Year Average	10 Year Average	Highest Count
Season Total	495	1,631	1,623	1,383	2,864

Focused Two-Week Data View



Season Total Overview



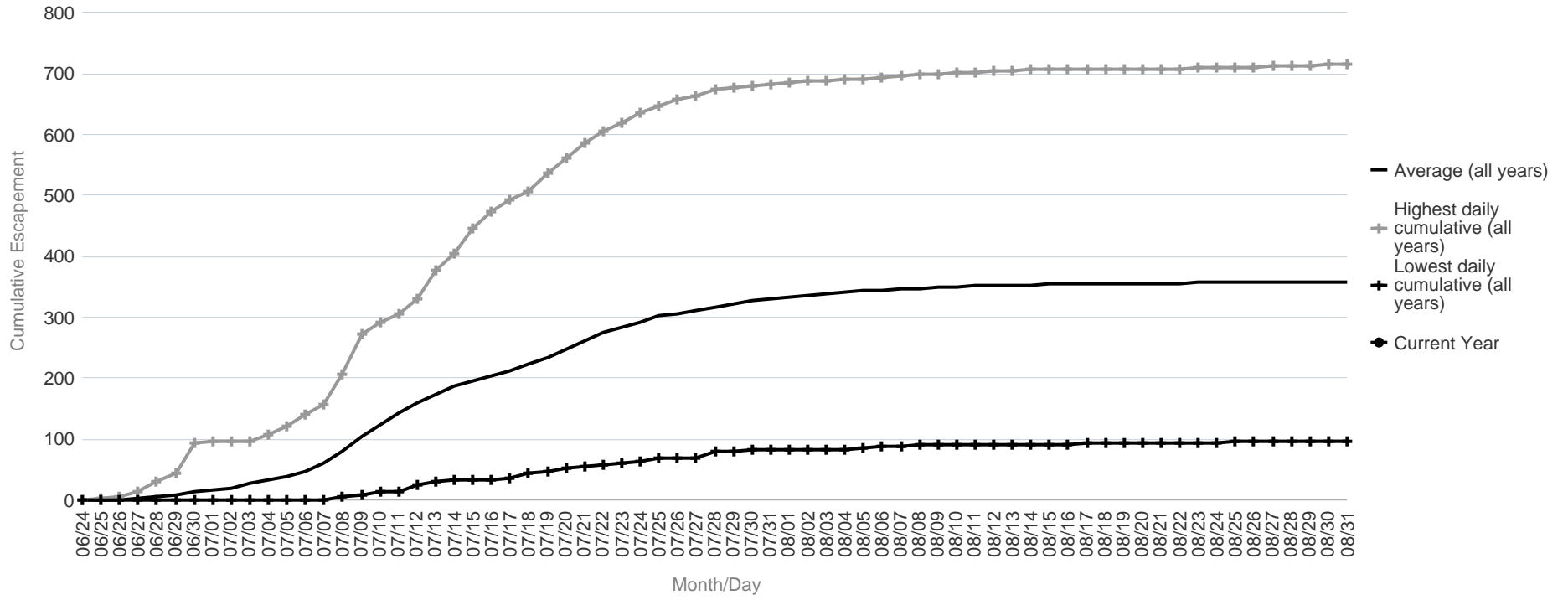
Takotna River Chinook Salmon Monitoring Project

Currently No Data for this Season

	Lowest Count	Average Count	Highest Count
Season Total	97	361	718

Currently No Data for this Season

Season Total Overview

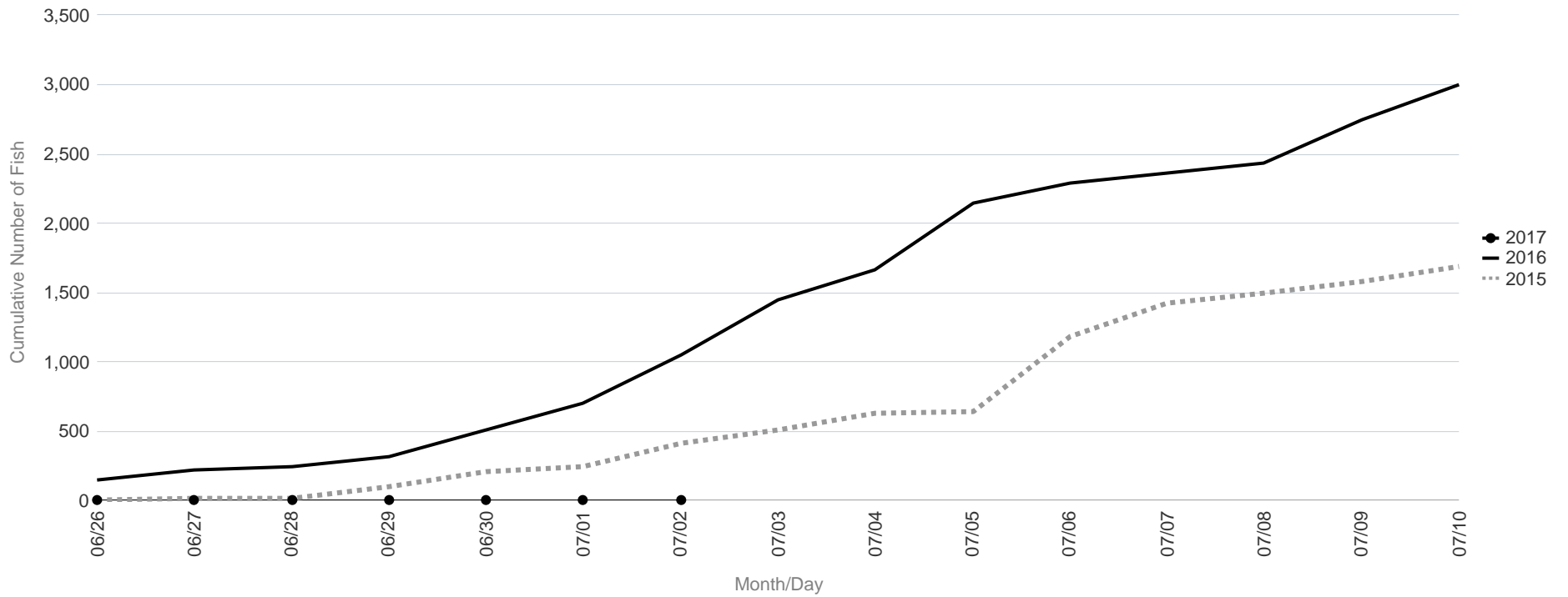


Salmon River (Pitka Fork) Salmon Monitoring Project Cumulative Daily Passage of Chinook Salmon

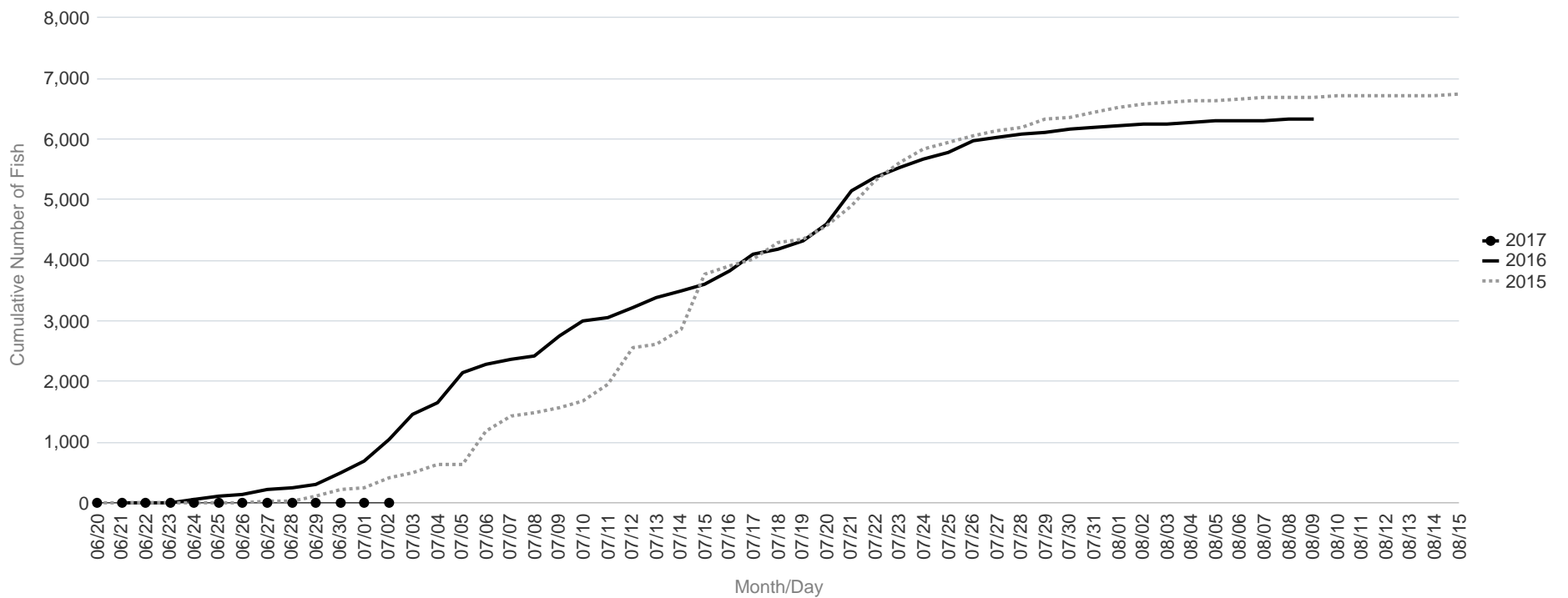
Cumulative Daily Passage			
Date	2015	2016	2017
06/26	0	142	0
06/27	19	223	0
06/28	20	245	0
06/29	101	318	0
06/30	212	508	1
07/01	247	704	3
07/02	411	1,052	3
07/03	513	1,450	
07/04	629	1,668	
07/05	644	2,141	
07/06	1,177	2,284	
07/07	1,425	2,366	
07/08	1,493	2,439	
07/09	1,580	2,746	
07/10	1,693	2,999	

	2015	2016
Season Total	6,736	6,326

Focused Two-Week Data View



Season Total Overview

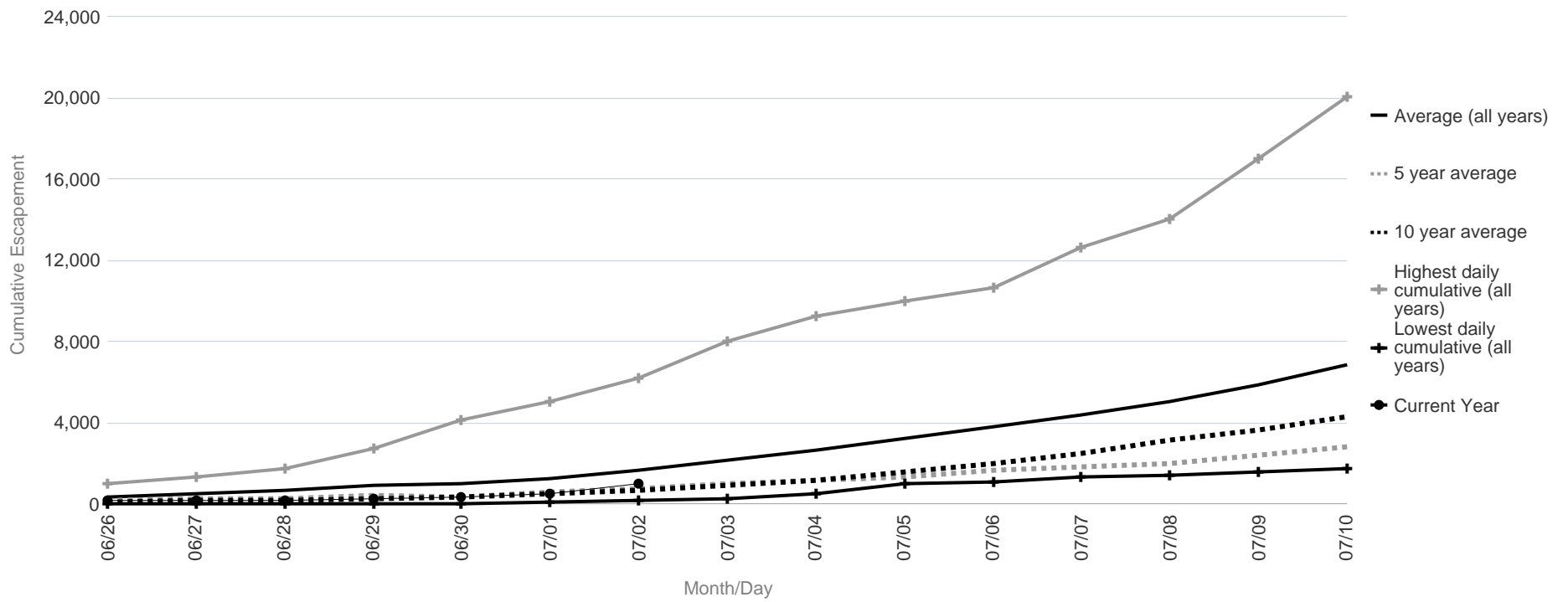


Kwethluk River Salmon Monitoring Project Cumulative Daily Passage of Chum Salmon

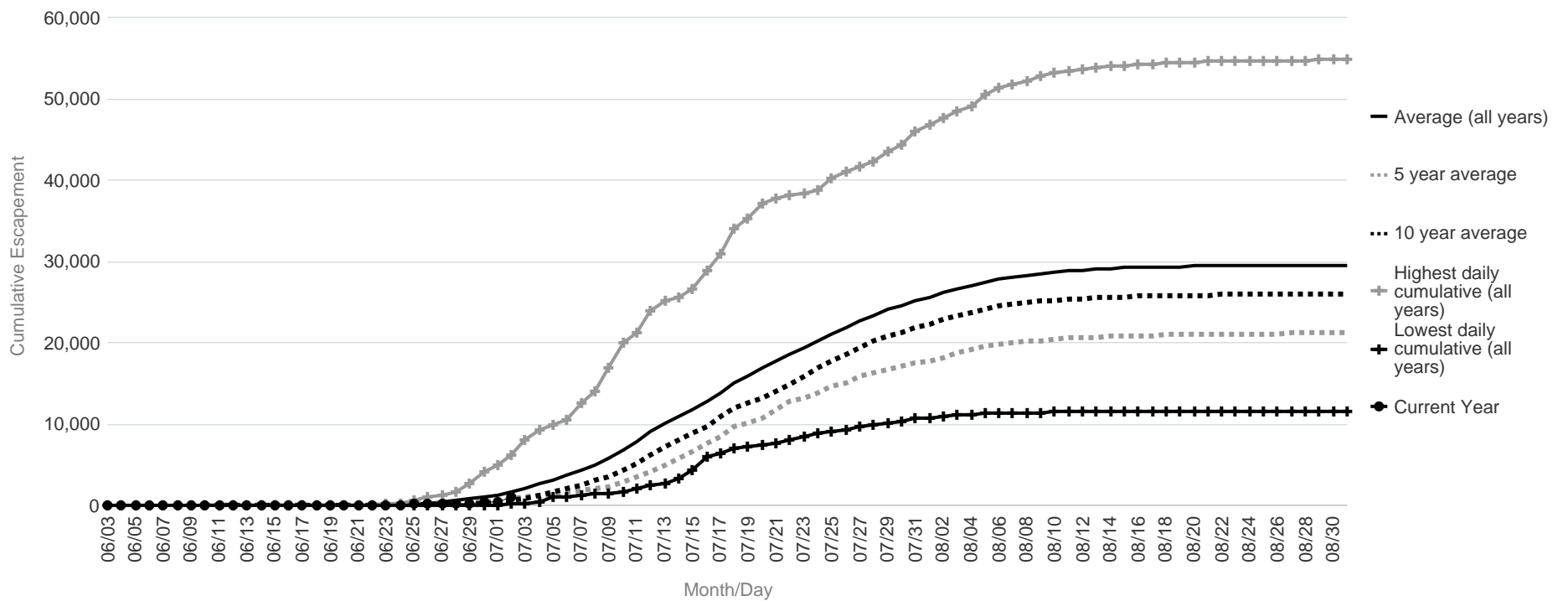
Date	Lowest daily cumulative (all years)	Average (all years)	5 year average	10 year average	Highest daily cumulative (all years)	Current Year
06/26	0	329	201	119	1,001	156
06/27	0	516	233	146	1,347	175
06/28	0	677	298	207	1,789	201
06/29	44	936	413	301	2,721	226
06/30	30	1,020	364	314	4,106	382
07/01	97	1,274	575	492	5,035	518
07/02	200	1,648	766	699	6,203	975
07/03	289	2,173	978	911	8,014	
07/04	475	2,672	1,172	1,206	9,260	
07/05	971	3,224	1,343	1,615	9,965	
07/06	1,116	3,826	1,633	2,012	10,653	
07/07	1,356	4,406	1,835	2,512	12,646	
07/08	1,414	5,071	2,032	3,134	14,065	
07/09	1,552	5,864	2,369	3,646	17,038	
07/10	1,727	6,848	2,843	4,285	20,074	

	Lowest Count	Average Count	5 Year Average	10 Year Average	Highest Count
Season Total	11,691	29,618	21,294	26,071	54,913

Focused Two-Week Data View



Season Total Overview

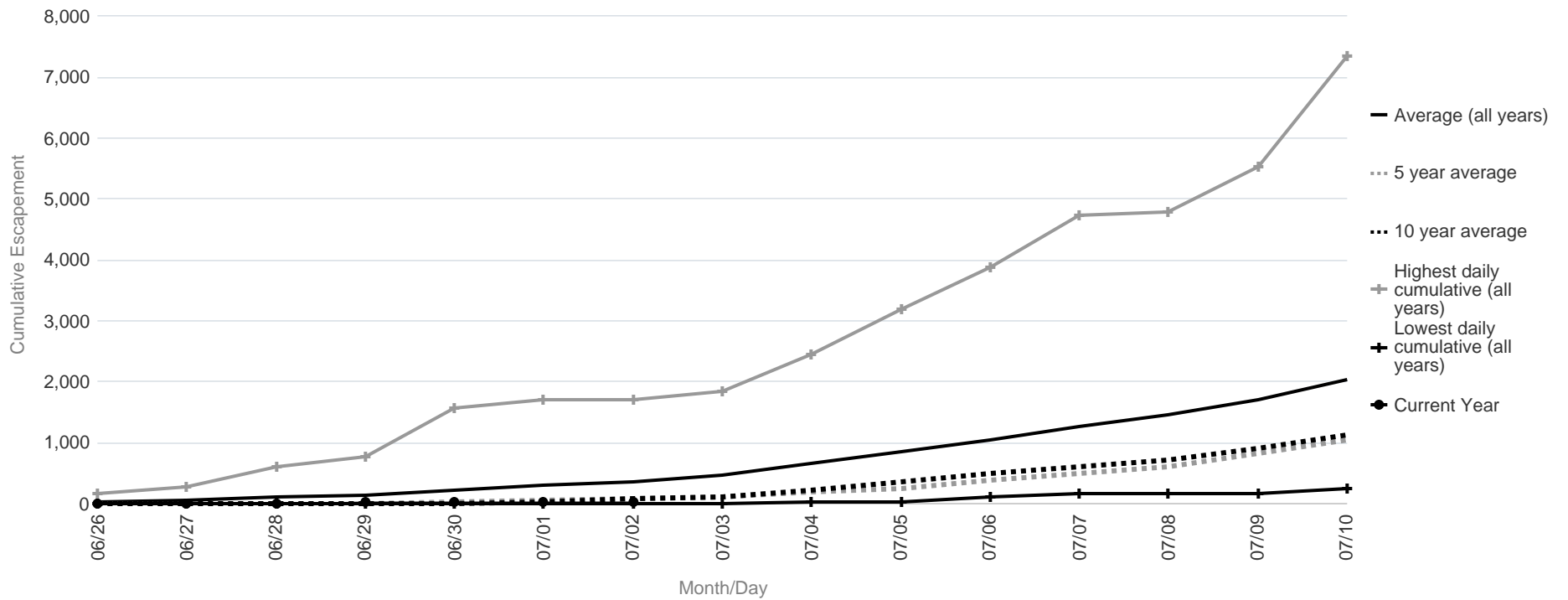


Tuluksak River Salmon Monitoring Project Cumulative Daily Passage of Chum Salmon

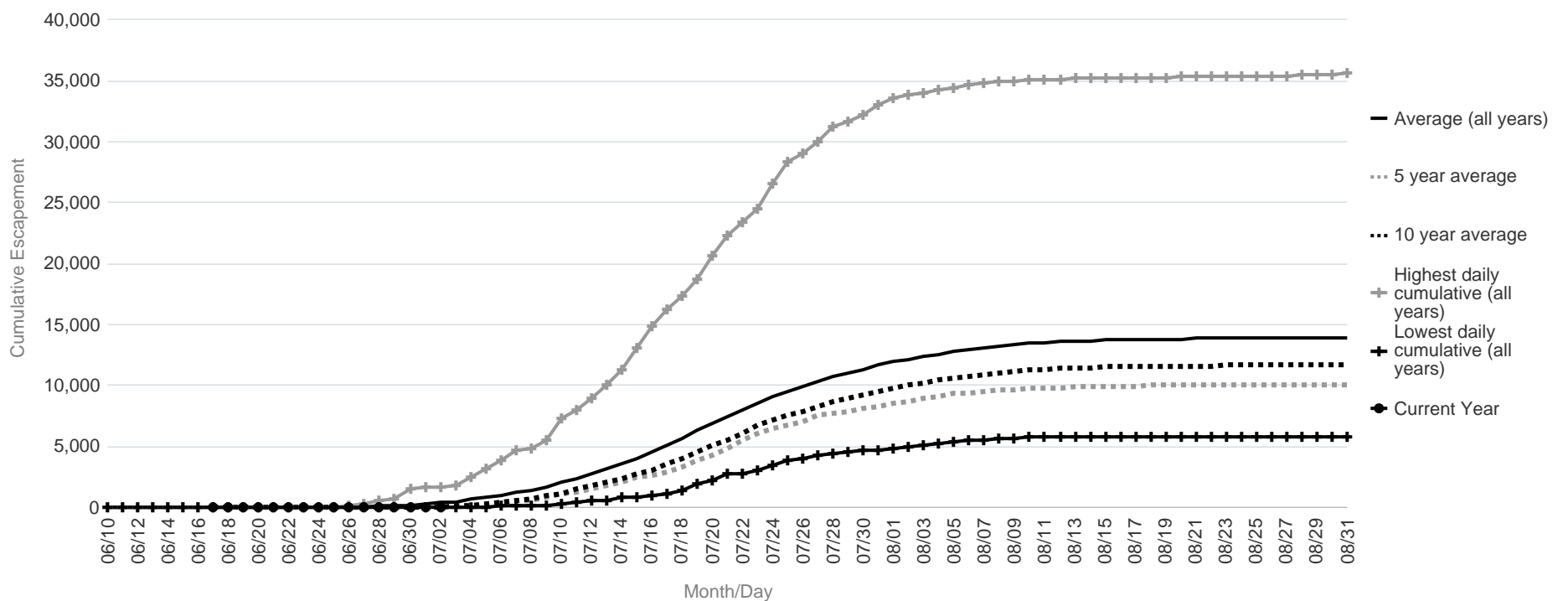
Date	Lowest daily cumulative (all years)	Average (all years)	5 year average	10 year average	Highest daily cumulative (all years)	Current Year
06/26	0	36	8	4	167	9
06/27	0	60	8	5	290	10
06/28	0	112	10	6	612	10
06/29	0	134	13	8	772	19
06/30	1	224	25	15	1,568	22
07/01	2	301	46	39	1,706	27
07/02	3	370	90	79	1,707	28
07/03	11	477	109	123	1,859	
07/04	35	660	184	228	2,443	
07/05	44	850	264	351	3,201	
07/06	101	1,040	390	497	3,881	
07/07	160	1,272	507	619	4,735	
07/08	169	1,463	623	733	4,802	
07/09	176	1,704	822	920	5,535	
07/10	249	2,049	1,057	1,139	7,346	

	Lowest Count	Average Count	5 Year Average	10 Year Average	Highest Count
Season Total	5,868	13,997	10,170	11,741	35,696

Focused Two-Week Data View



Season Total Overview

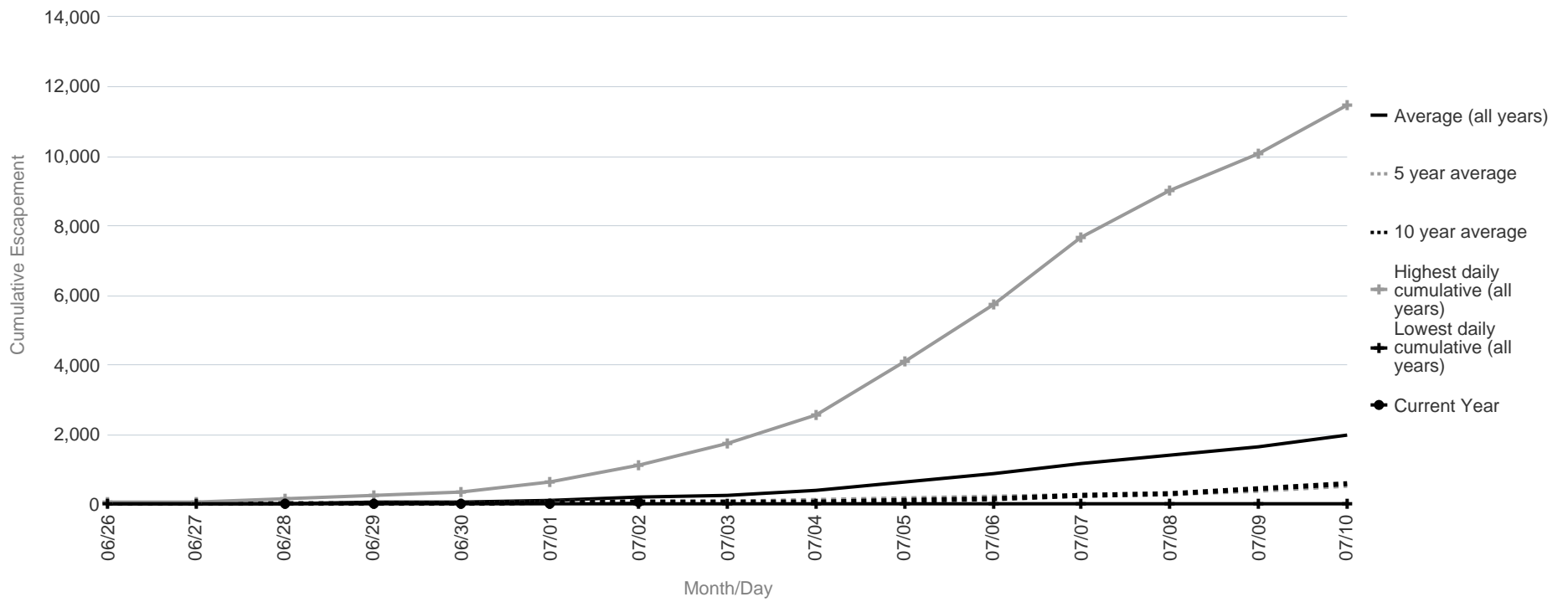


Salmon River (Aniak) Salmon Monitoring Project Cumulative Daily Passage of Chum Salmon

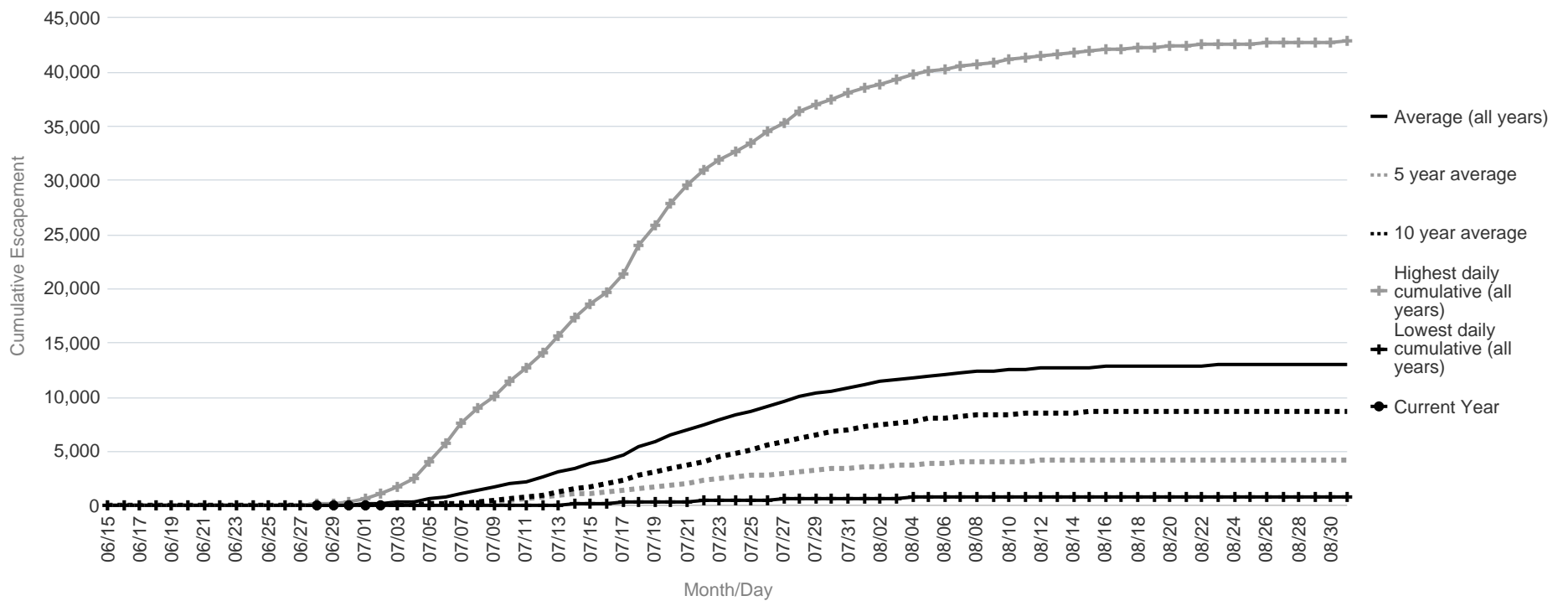
Date	Lowest daily cumulative (all years)	Average (all years)	5 year average	10 year average	Highest daily cumulative (all years)	Current Year
06/26	0	11	8	5	48	
06/27	0	15	11	7	72	
06/28	0	27	17	11	139	0
06/29	0	40	20	13	229	0
06/30	0	66	29	22	369	8
07/01	0	110	46	33	647	22
07/02	0	178	61	44	1,112	48
07/03	0	271	70	60	1,748	
07/04	0	386	88	76	2,554	
07/05	0	621	139	121	4,117	
07/06	0	871	188	172	5,758	
07/07	1	1,162	237	236	7,644	
07/08	3	1,406	309	320	9,007	
07/09	8	1,661	397	455	10,097	
07/10	17	1,963	518	602	11,488	

	Lowest Count	Average Count	5 Year Average	10 Year Average	Highest Count
Season Total	816	13,013	4,272	8,754	42,825

Focused Two-Week Data View



Season Total Overview

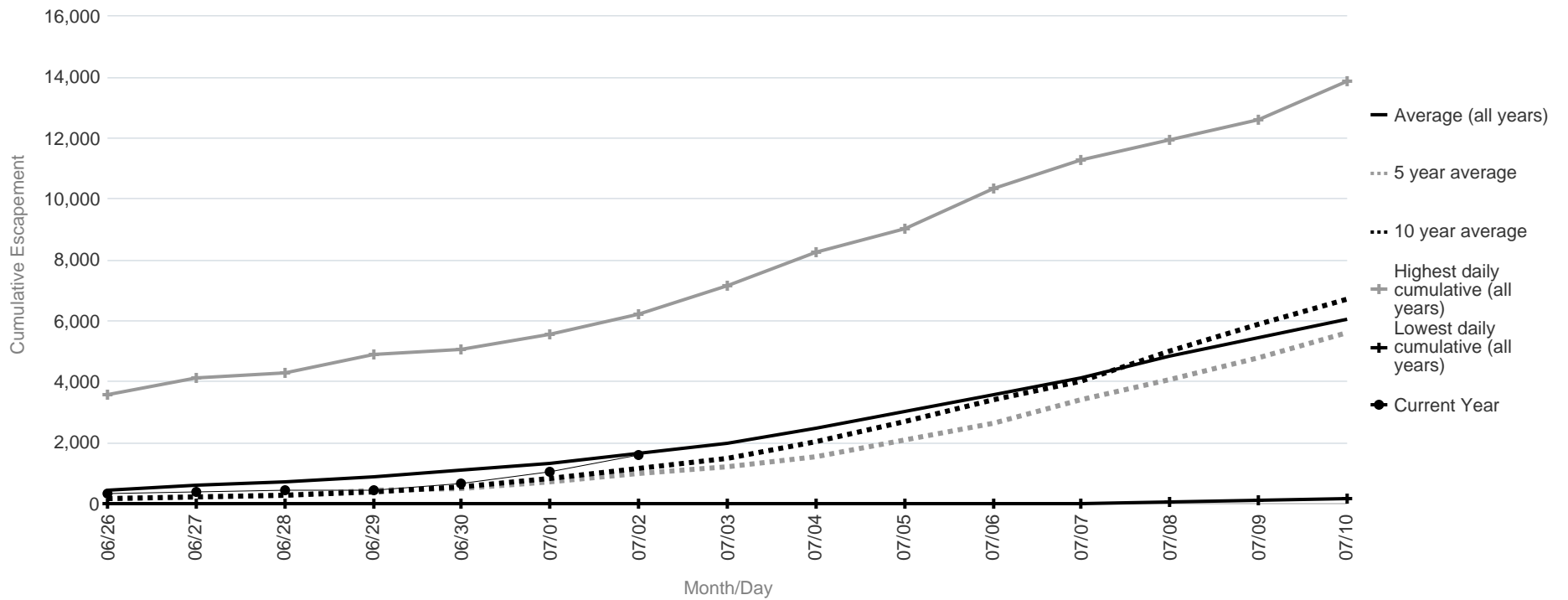


George River Salmon Monitoring Project Cumulative Daily Passage of Chum Salmon

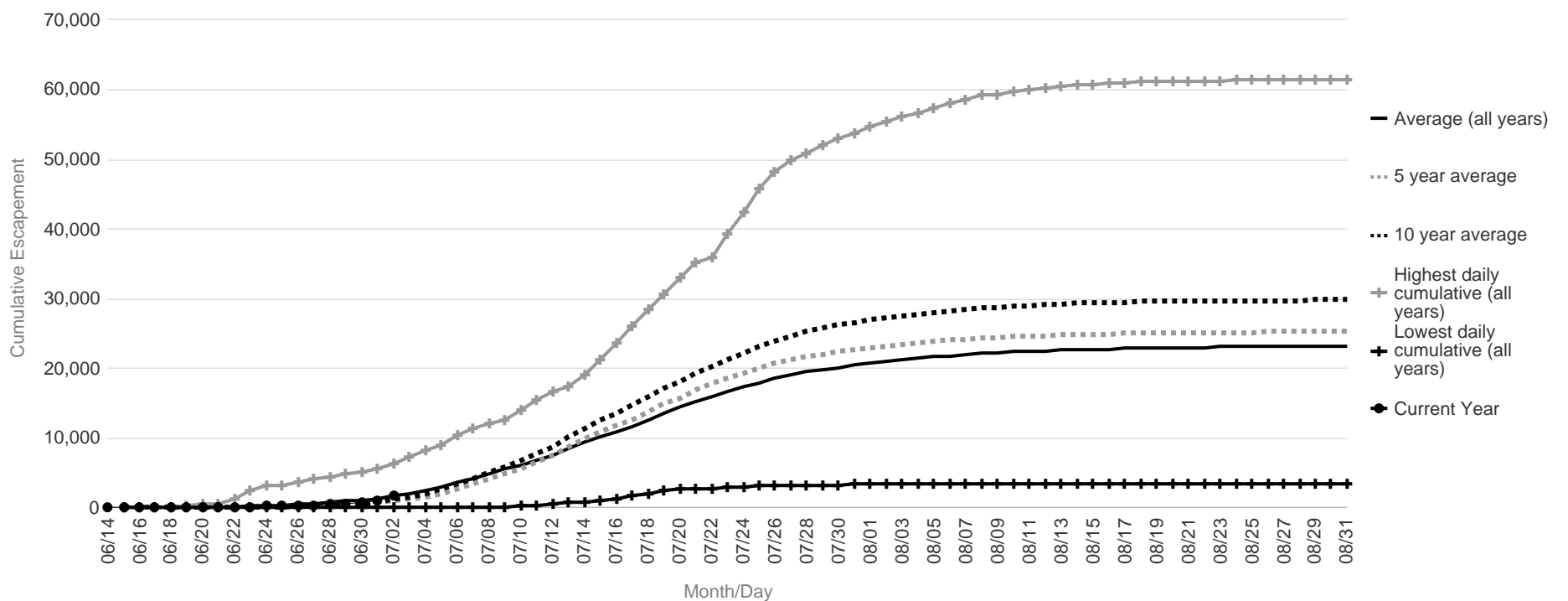
Date	Lowest daily cumulative (all years)	Average (all years)	5 year average	10 year average	Highest daily cumulative (all years)	Current Year
06/26	0	472	183	168	3,609	323
06/27	0	607	229	232	4,117	376
06/28	0	727	296	291	4,284	433
06/29	0	907	437	415	4,882	463
06/30	0	1,085	519	576	5,097	686
07/01	0	1,341	715	831	5,595	1,081
07/02	0	1,641	982	1,168	6,204	1,608
07/03	1	2,015	1,200	1,514	7,165	
07/04	3	2,483	1,548	2,026	8,239	
07/05	7	3,020	2,080	2,713	9,060	
07/06	16	3,599	2,660	3,398	10,334	
07/07	33	4,153	3,397	4,047	11,293	
07/08	62	4,827	4,101	5,031	11,972	
07/09	111	5,464	4,778	5,884	12,590	
07/10	186	6,076	5,607	6,719	13,890	

	Lowest Count	Average Count	5 Year Average	10 Year Average	Highest Count
Season Total	3,507	23,223	25,344	29,852	61,531

Focused Two-Week Data View



Season Total Overview



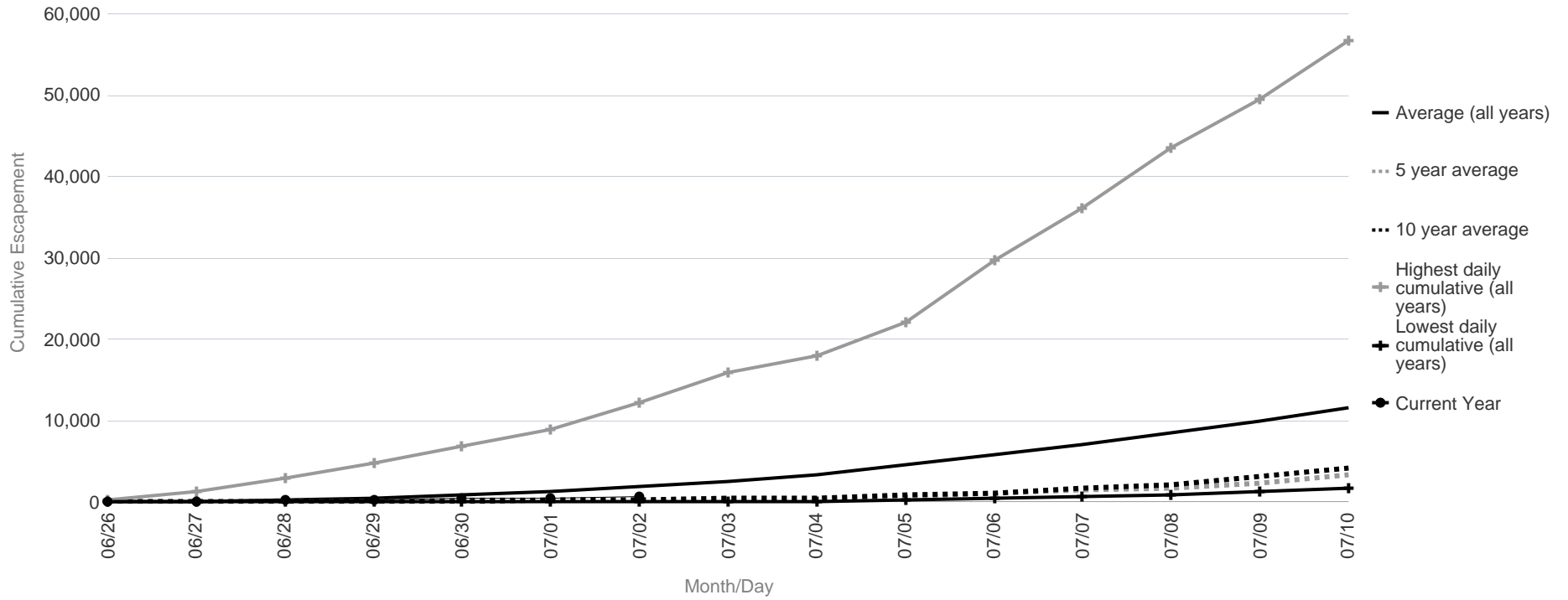
Kogrukluk River Salmon Monitoring Project Cumulative Daily Passage of Chum Salmon

Escapement Goal Range: 15,000 to 49,000

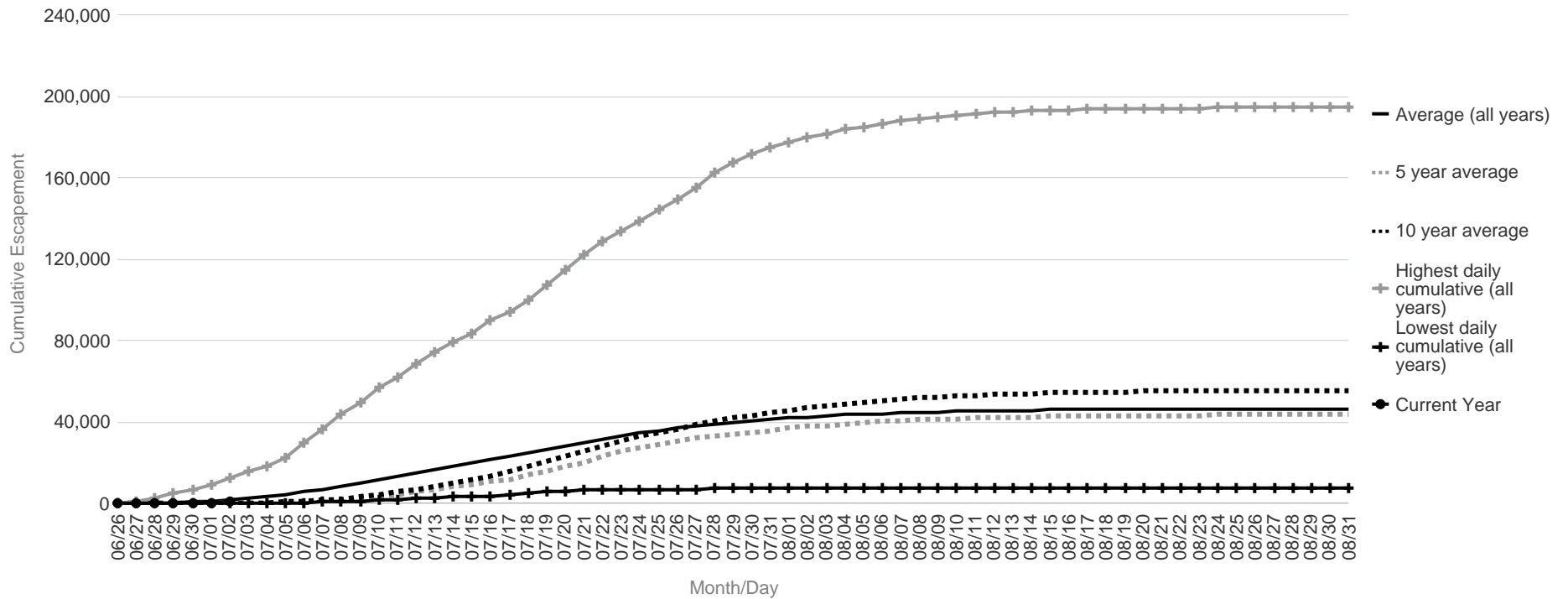
Date	Lowest daily cumulative (all years)	Average (all years)	5 year average	10 year average	Highest daily cumulative (all years)	Current Year
06/26	0	25	16	9	324	30
06/27	0	101	40	25	1,343	63
06/28	0	241	74	48	2,893	140
06/29	0	511	105	77	4,754	302
06/30	0	819	160	117	6,766	375
07/01	0	1,233	234	175	8,821	441
07/02	1	1,838	320	251	12,310	567
07/03	4	2,581	431	358	15,917	
07/04	124	3,428	524	521	18,024	
07/05	234	4,543	714	781	22,060	
07/06	405	5,799	1,044	1,120	29,780	
07/07	747	7,082	1,404	1,588	36,192	
07/08	893	8,516	1,712	2,174	43,627	
07/09	1,368	10,023	2,364	3,031	49,581	
07/10	1,659	11,679	3,360	4,161	56,718	

	Lowest Count	Average Count	5 Year Average	10 Year Average	Highest Count
Season Total	7,975	46,748	43,734	55,690	194,887

Focused Two-Week Data View



Season Total Overview

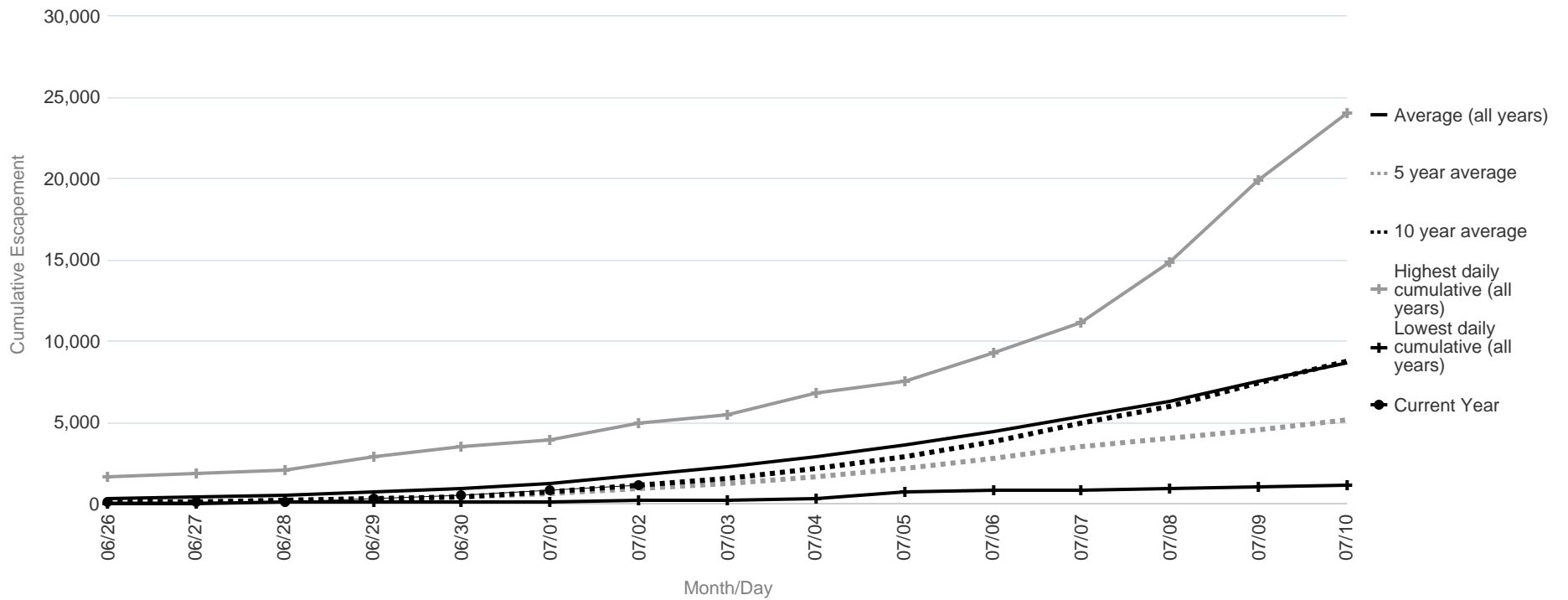


Tatlawiksuk River Salmon Monitoring Project Cumulative Daily Passage of Chum Salmon

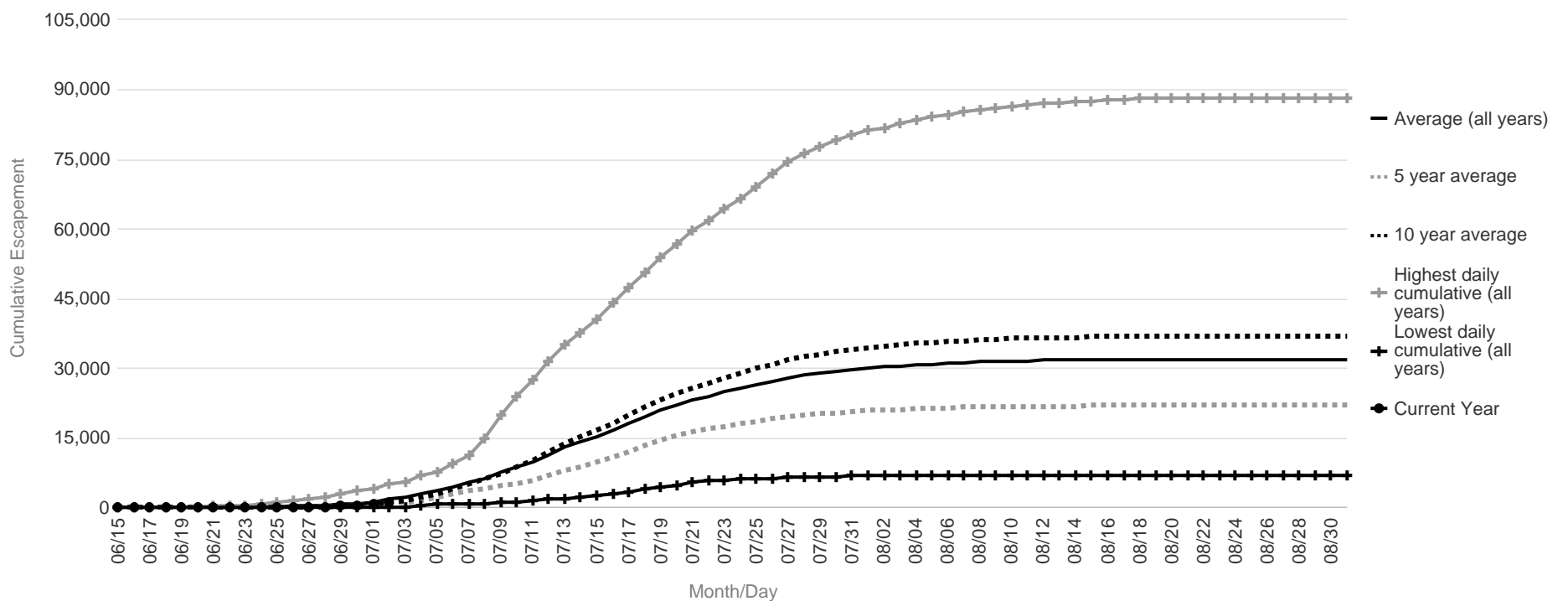
Date	Lowest daily cumulative (all years)	Average (all years)	5 year average	10 year average	Highest daily cumulative (all years)	Current Year
06/26	19	288	74	87	1,651	109
06/27	31	385	123	137	1,826	127
06/28	97	515	205	228	2,067	169
06/29	112	697	348	349	2,901	299
06/30	132	965	479	478	3,535	567
07/01	165	1,269	654	768	3,959	878
07/02	221	1,731	987	1,128	4,996	1,167
07/03	226	2,274	1,229	1,564	5,497	
07/04	276	2,922	1,679	2,167	6,851	
07/05	742	3,620	2,196	2,928	7,534	
07/06	841	4,465	2,815	3,863	9,296	
07/07	890	5,372	3,545	4,968	11,183	
07/08	964	6,294	4,036	6,042	14,915	
07/09	1,071	7,546	4,579	7,430	19,984	
07/10	1,195	8,733	5,202	8,764	24,018	

	Lowest Count	Average Count	5 Year Average	10 Year Average	Highest Count
Season Total	7,076	32,034	22,043	36,974	88,202

Focused Two-Week Data View



Season Total Overview



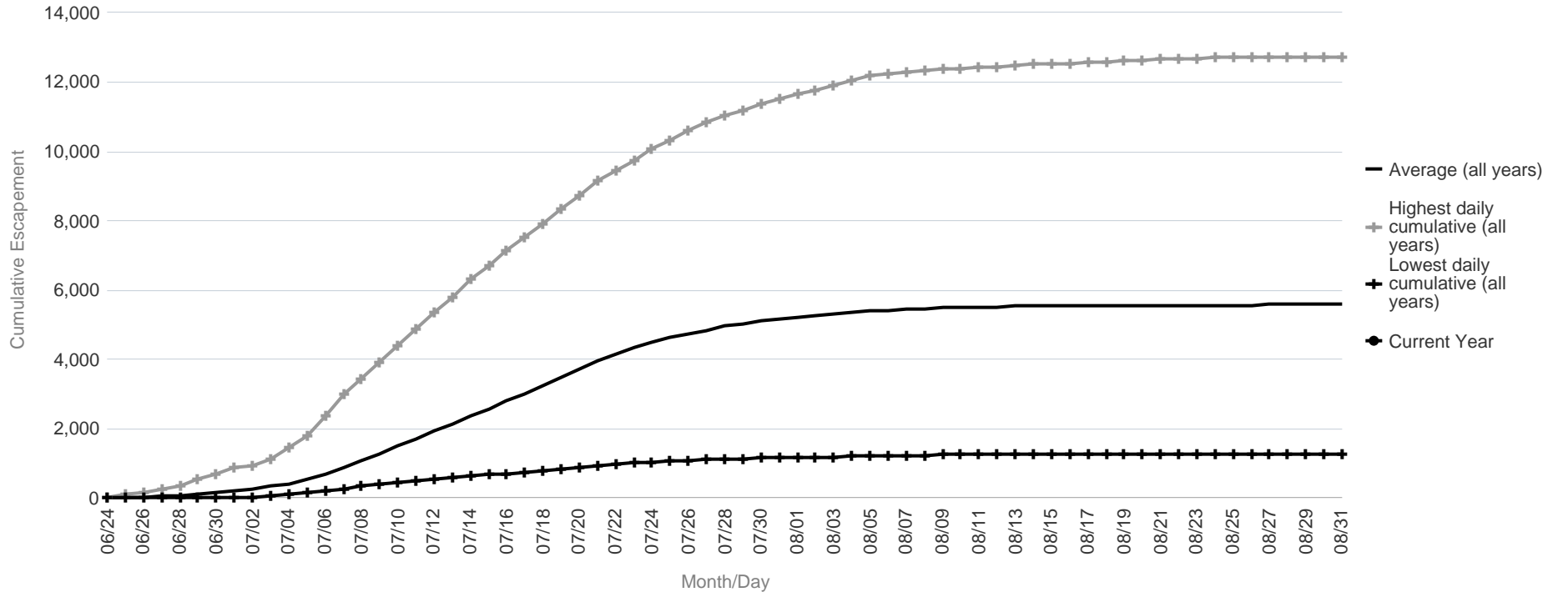
Takotna River Chum Salmon Monitoring Project

Currently No Data for this Season

	Lowest Count	Average Count	Highest Count
Season Total	1,265	5,576	12,729

Currently No Data for this Season

Season Total Overview

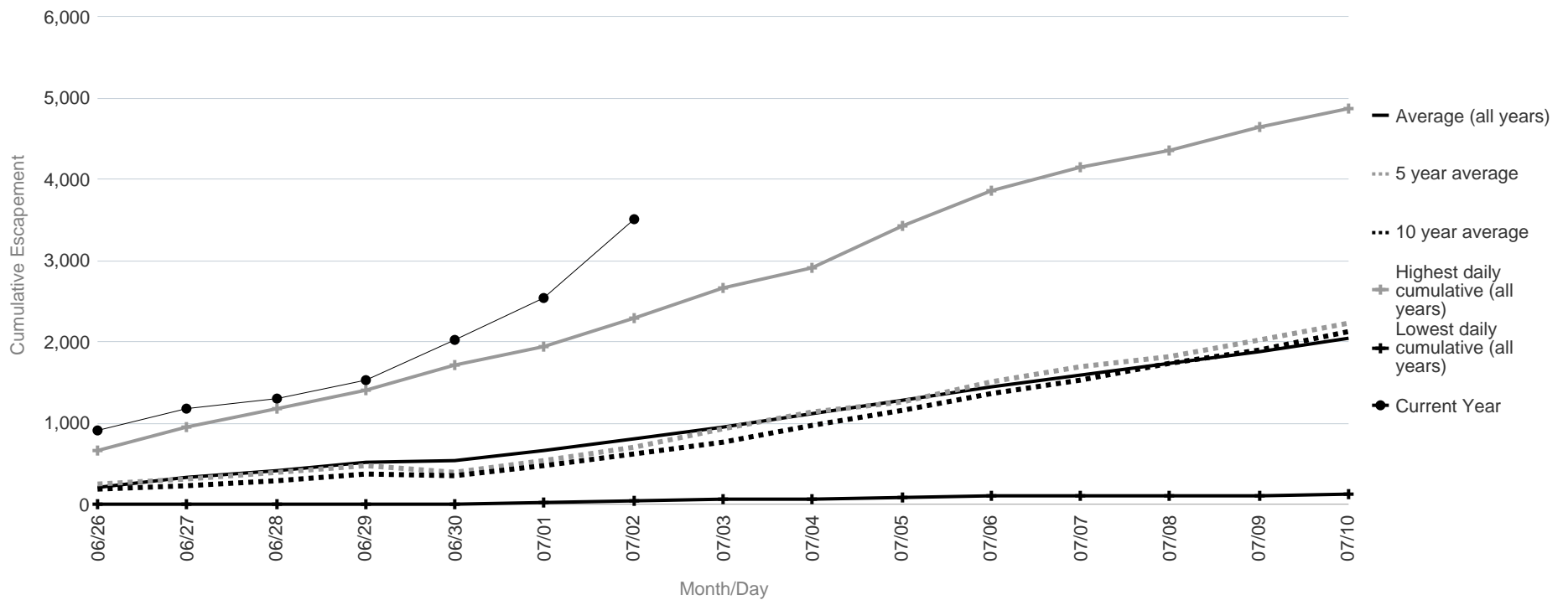


Kwethluk River Salmon Monitoring Project Cumulative Daily Passage of Sockeye Salmon

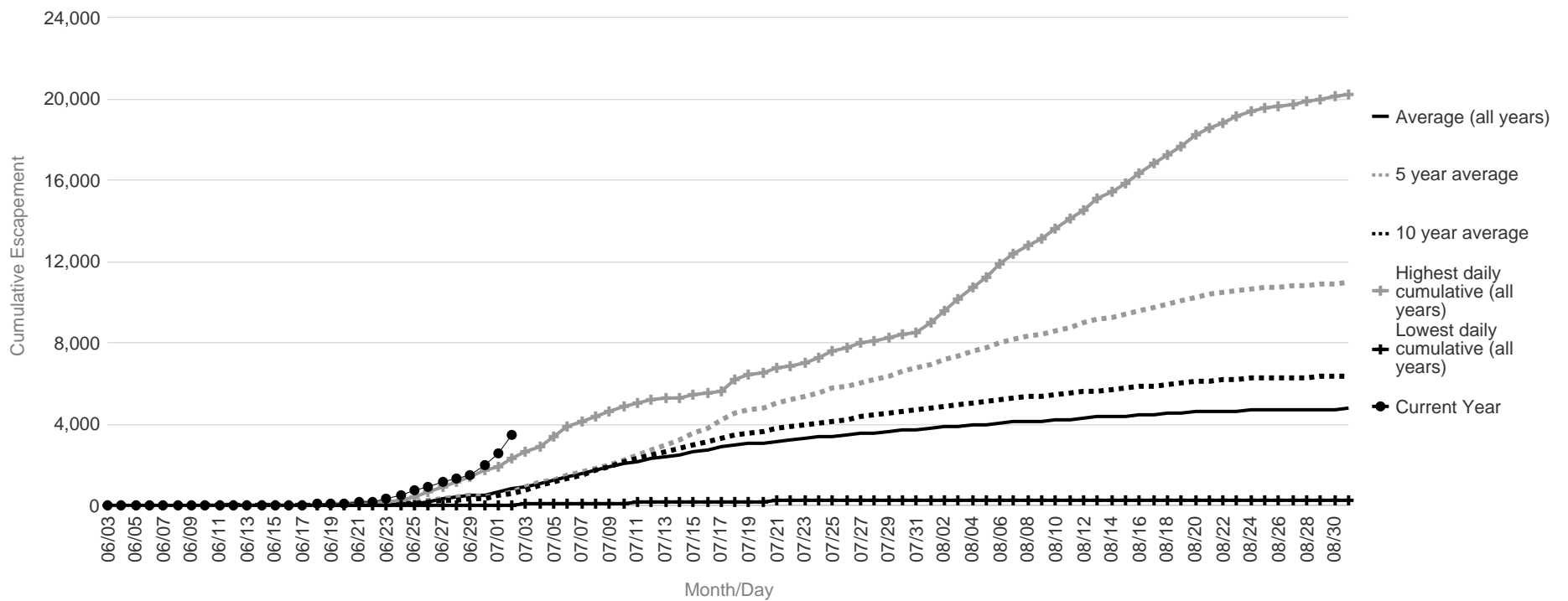
Date	Lowest daily cumulative (all years)	Average (all years)	5 year average	10 year average	Highest daily cumulative (all years)	Current Year
06/26	0	218	244	181	672	902
06/27	0	326	309	231	953	1,188
06/28	0	410	388	284	1,174	1,305
06/29	4	509	477	370	1,402	1,530
06/30	7	536	398	350	1,724	2,022
07/01	16	659	548	471	1,946	2,546
07/02	37	804	705	619	2,293	3,512
07/03	59	951	932	776	2,667	
07/04	70	1,108	1,132	975	2,913	
07/05	77	1,275	1,266	1,168	3,424	
07/06	99	1,447	1,502	1,357	3,867	
07/07	109	1,584	1,686	1,522	4,145	
07/08	113	1,741	1,829	1,739	4,356	
07/09	115	1,886	2,022	1,910	4,651	
07/10	134	2,045	2,236	2,124	4,879	

	Lowest Count	Average Count	5 Year Average	10 Year Average	Highest Count
Season Total	272	4,793	11,090	6,415	20,495

Focused Two-Week Data View



Season Total Overview

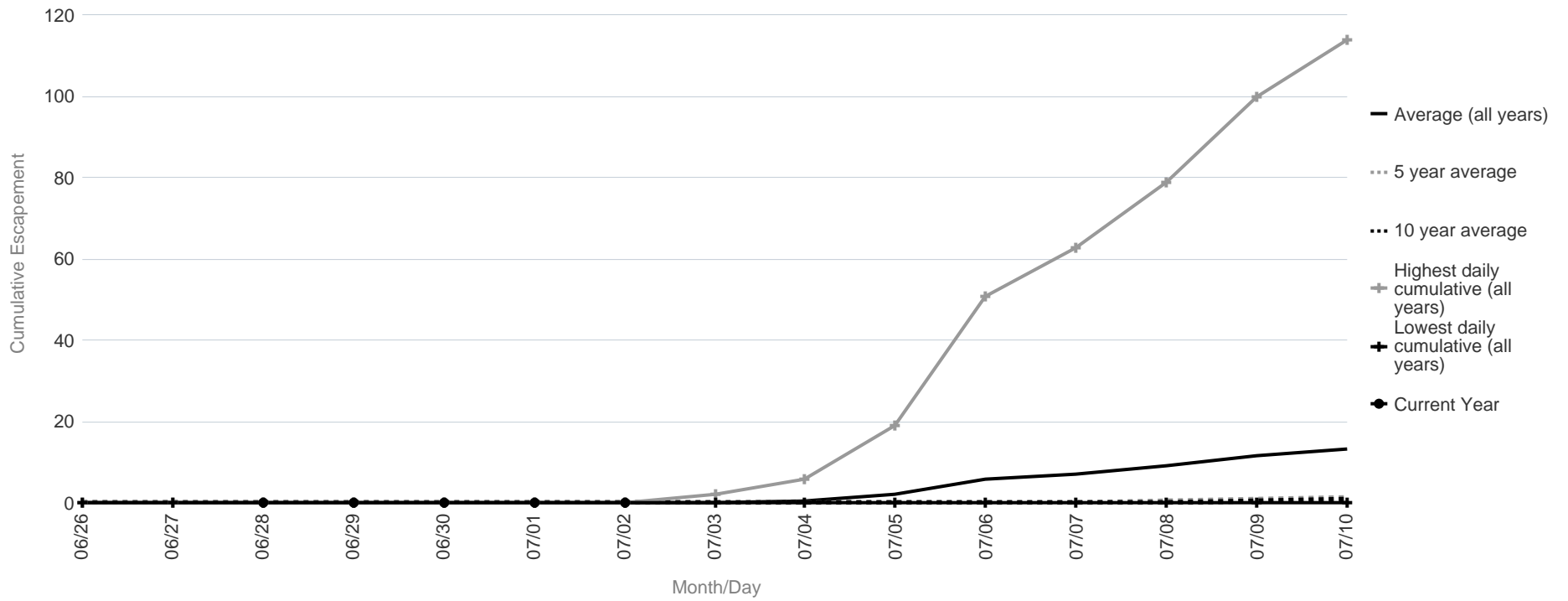


Salmon River (Aniak) Salmon Monitoring Project Cumulative Daily Passage of Sockeye Salmon

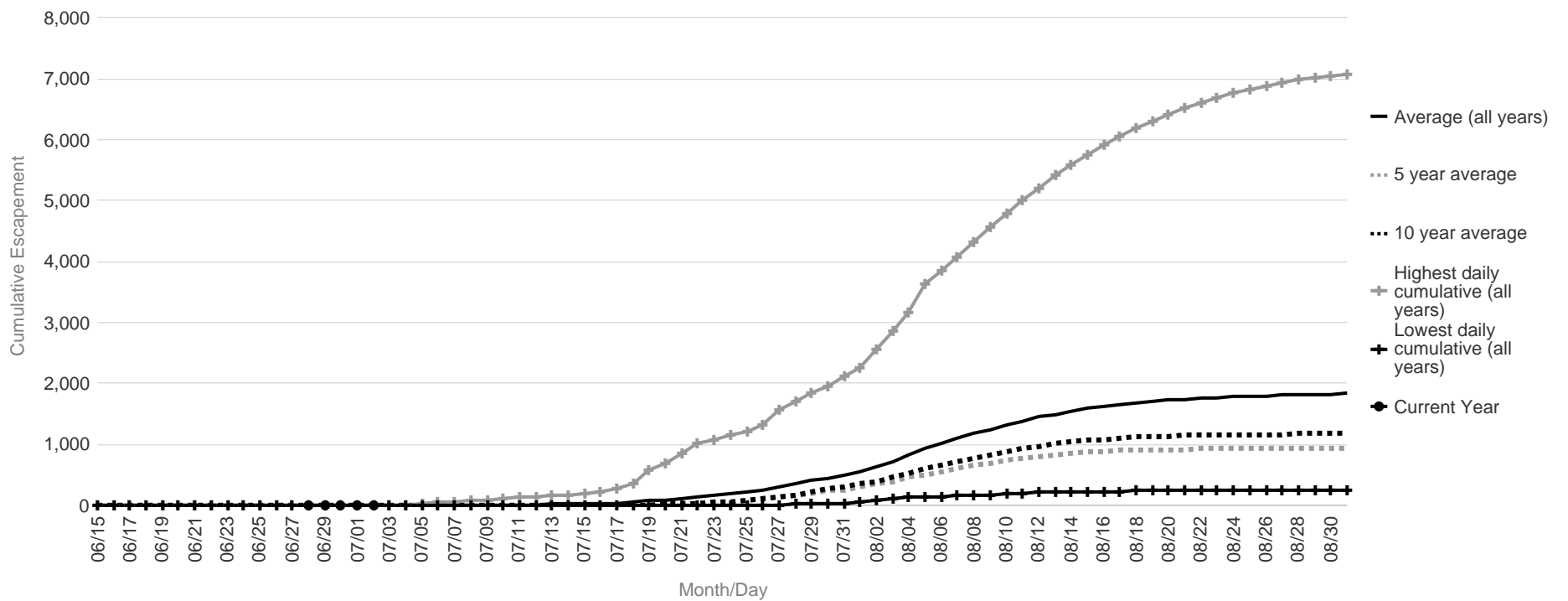
Date	Lowest daily cumulative (all years)	Average (all years)	5 year average	10 year average	Highest daily cumulative (all years)	Current Year
06/26	0	0	0	0	0	
06/27	0	0	0	0	0	
06/28	0	0	0	0	0	0
06/29	0	0	0	0	0	0
06/30	0	0	0	0	0	0
07/01	0	0	0	0	0	0
07/02	0	0	0	0	0	0
07/03	0	0	0	0	0	2
07/04	0	1	0	0	6	
07/05	0	2	0	0	19	
07/06	0	6	0	0	51	
07/07	0	7	0	0	63	
07/08	0	9	0	0	79	
07/09	0	12	1	1	100	
07/10	0	13	1	1	114	

	Lowest Count	Average Count	5 Year Average	10 Year Average	Highest Count
Season Total	253	1,836	941	1,180	7,086

Focused Two-Week Data View



Season Total Overview



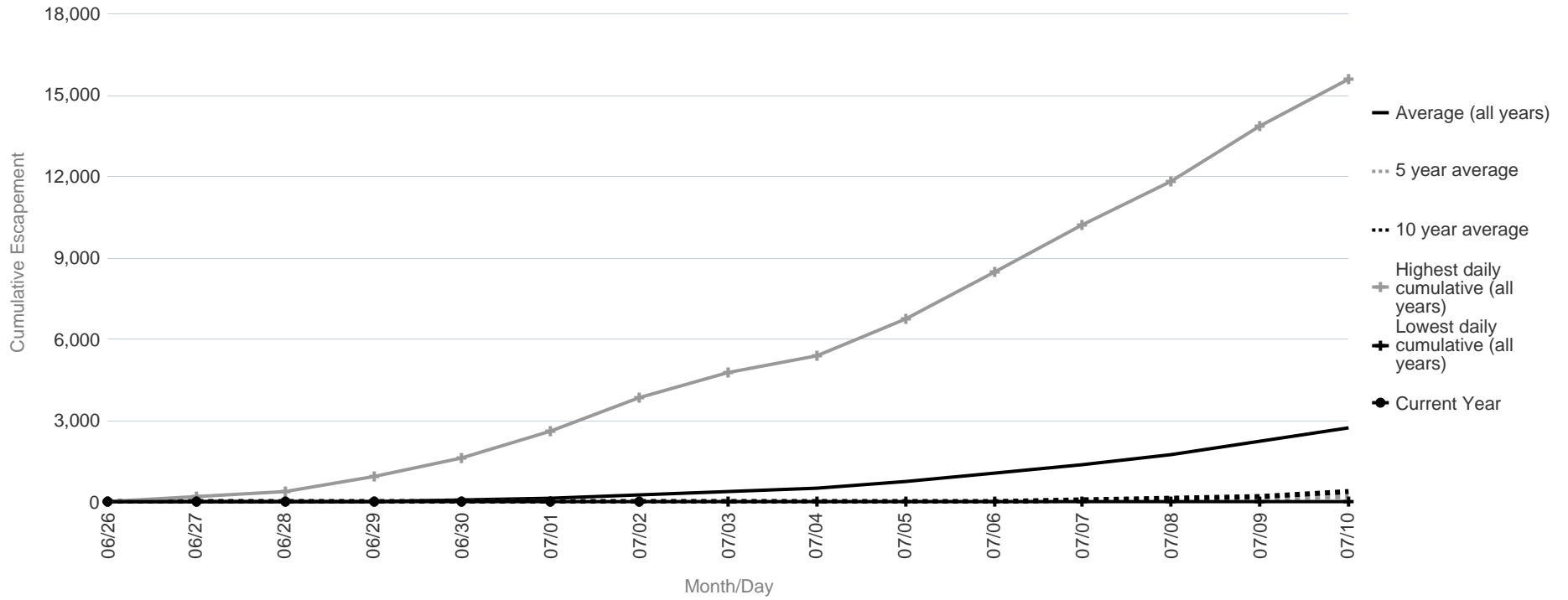
Kogrukluk River Salmon Monitoring Project Cumulative Daily Passage of Sockeye Salmon

Escapement Goal Range: 4,400 to 17,000

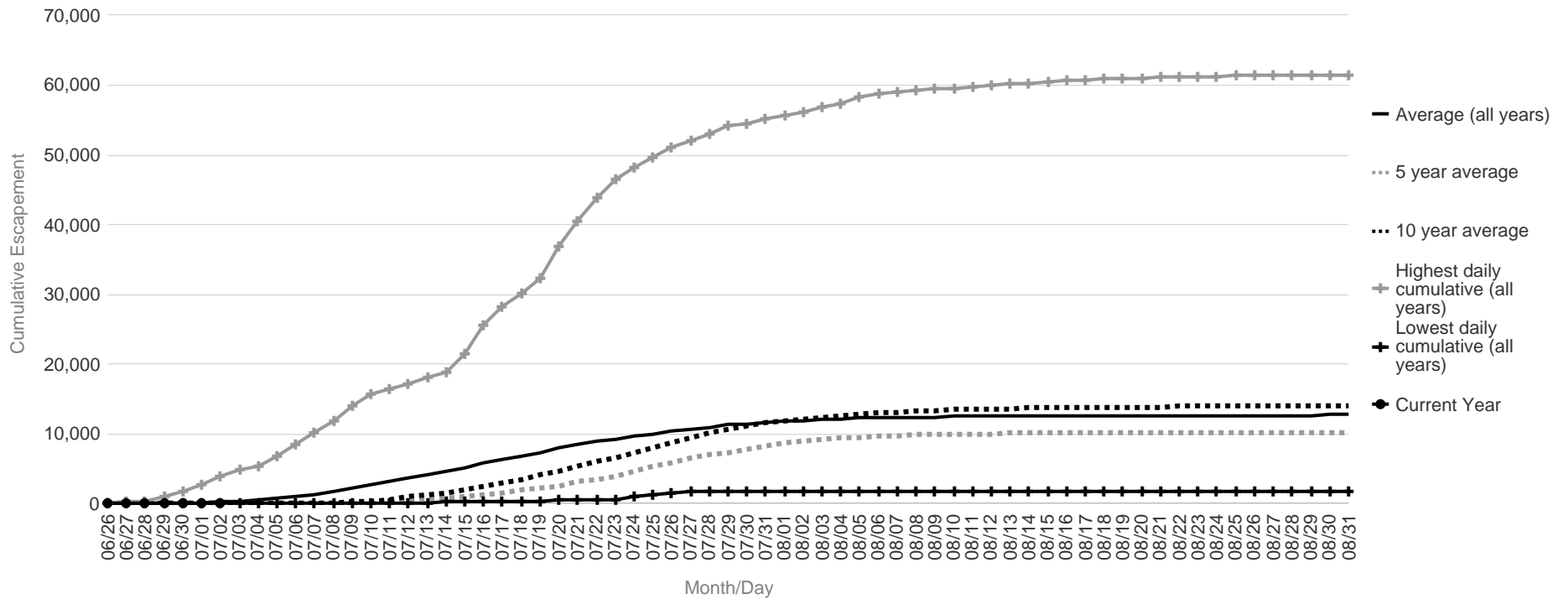
Date	Lowest daily cumulative (all years)	Average (all years)	5 year average	10 year average	Highest daily cumulative (all years)	Current Year
06/26	0	1	0	0	18	0
06/27	0	6	0	0	170	0
06/28	0	14	0	0	392	4
06/29	0	37	0	1	932	4
06/30	0	73	1	2	1,637	4
07/01	0	137	3	3	2,611	4
07/02	0	241	5	5	3,863	5
07/03	0	374	8	8	4,803	
07/04	0	536	12	13	5,427	
07/05	0	750	25	27	6,736	
07/06	0	1,049	30	37	8,498	
07/07	1	1,364	53	64	10,227	
07/08	2	1,768	82	124	11,866	
07/09	3	2,221	129	211	13,891	
07/10	20	2,704	220	360	15,641	

	Lowest Count	Average Count	5 Year Average	10 Year Average	Highest Count
Season Total	1,732	12,687	10,179	13,949	61,382

Focused Two-Week Data View



Season Total Overview



Telaquana River Sockeye Salmon Monitoring Project

Currently No Data for this Season

	Lowest Count	Average Count	5 Year Average	10 Year Average	Highest Count
Season Total	23,005	51,515	50,714	51,515	95,516

Currently No Data for this Season

Season Total Overview

