

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: 7/31/2024

Time: 10:00 am

Place: Bethel

Time Called to Order:

Chair:

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

Member at Large:
Member at Large 2:
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 MANAGEMENT UPDATE:

ADF&G MANAGEMENT ACTIONS UNDER CONSIDERATION:

PEOPLE TO BE HEARD: *Non-Working Group Members*

CONTINUING BUSINESS:

- Subsistence Reports: Lowest River, ONC Inseason Subsistence Report, KRITFC Inseason Harvest 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:
- 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.

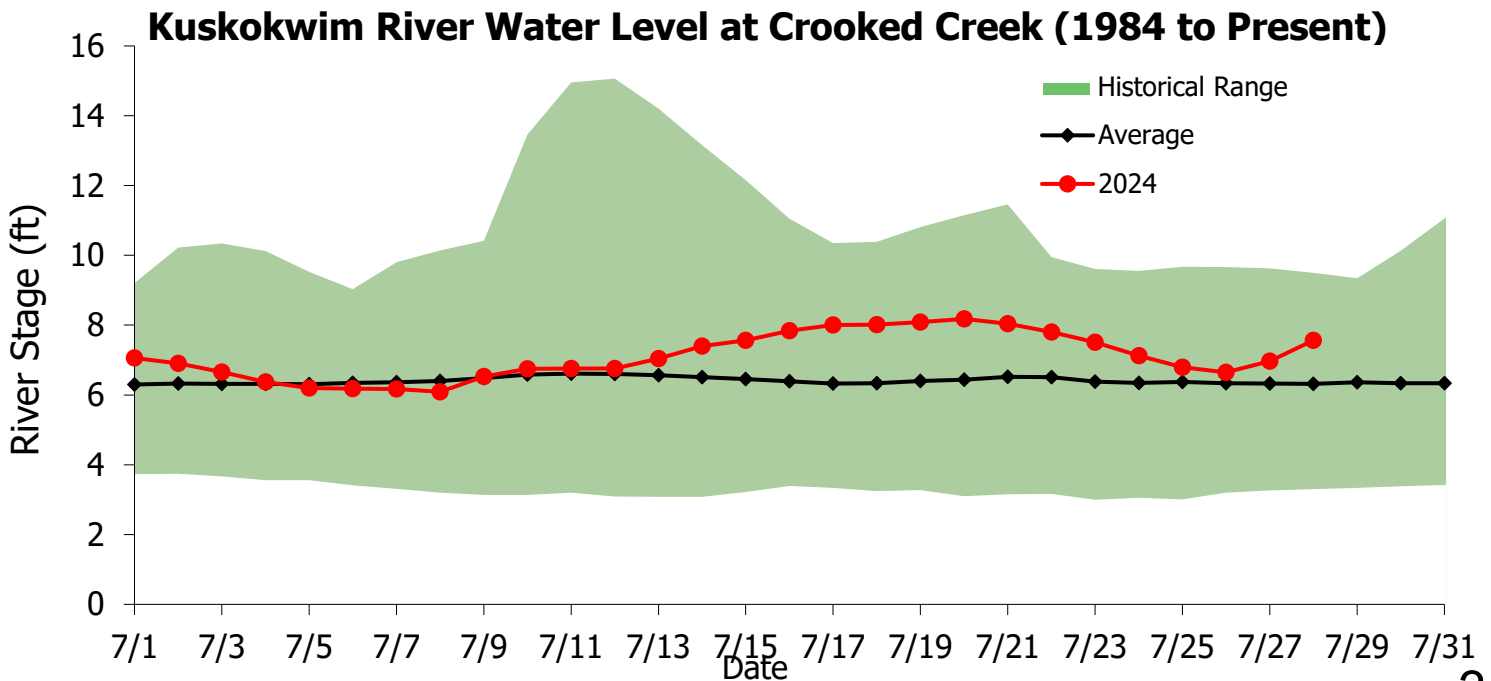
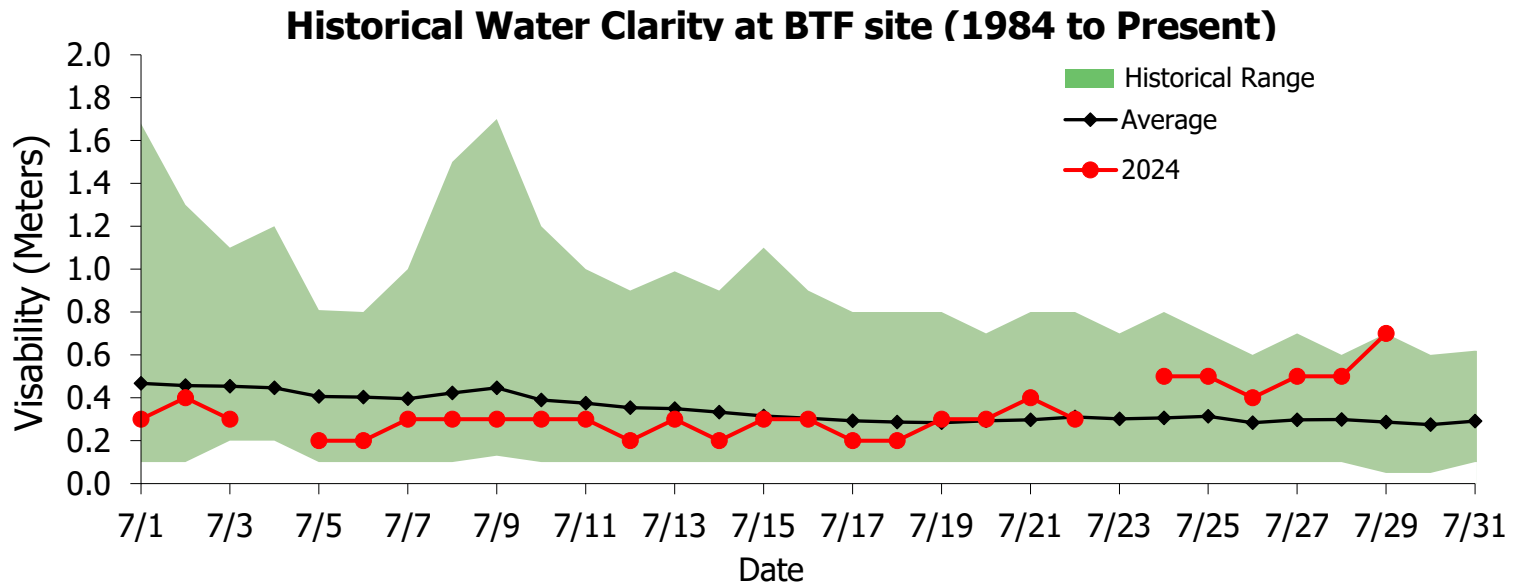
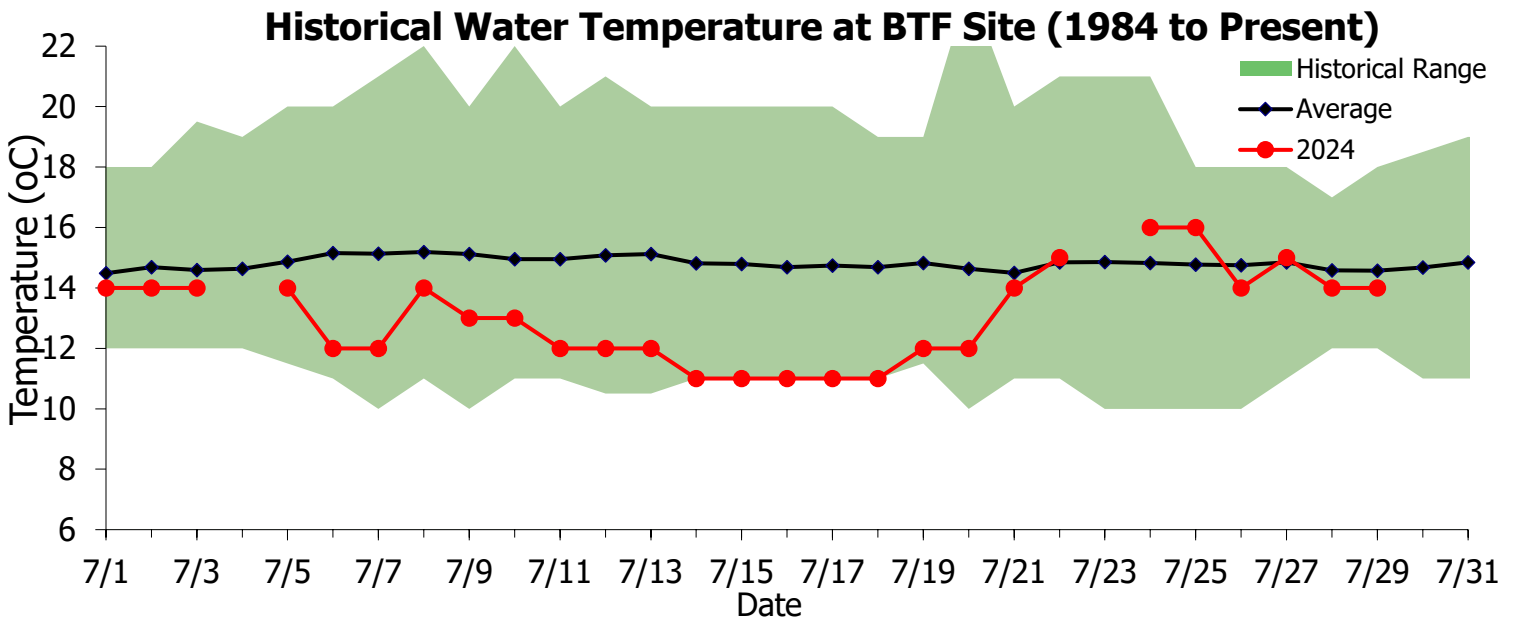
Misuse of Packet information can contribute to misunderstandings that can **cause harm to salmon users** and potentially **damage salmon resources**.

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,
Savannah Hollingworth
Working Group Coordinator



Kuskokwim River Salmon Assessment Update

7/29/2024



The data summaries presented in this document are provided by 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 Sean Larson (ADF&G; sean.larson@alaska.gov). Original development of code used to create this document is credited to Benjamin Staton.

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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>

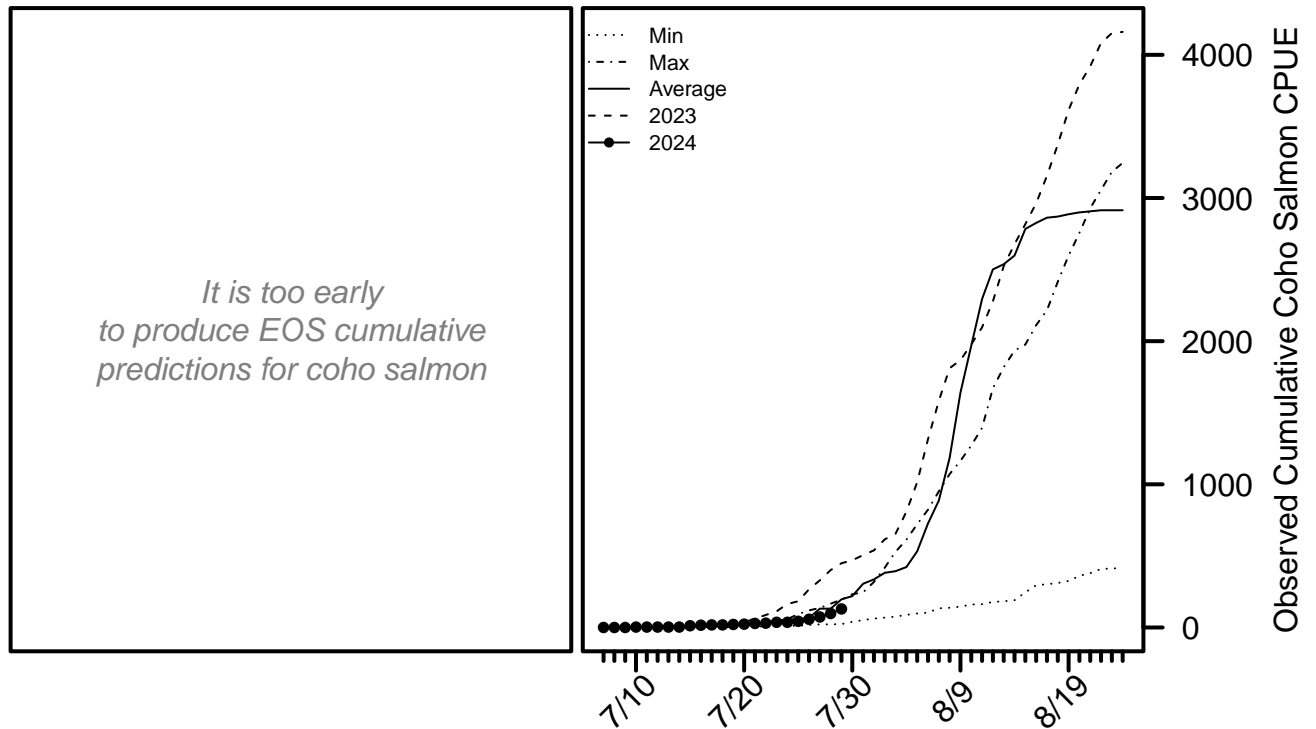
For the most up-to-date information regarding fishing opportunities please visit:

- **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 (7/29)

- The BTF daily CPUE was **32**.
- The BTF cumulative CPUE is now **130**.
- **13%** years since 2008 fell below this cumulative CPUE on this date.
- **4% - 16%** of the run is likely complete based historical run timing.

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 2024 plotted along with the prior year, a year with an average (1984-2023) cumulative CPUE, and years with the minimum and maximum cumulative CPUEs.

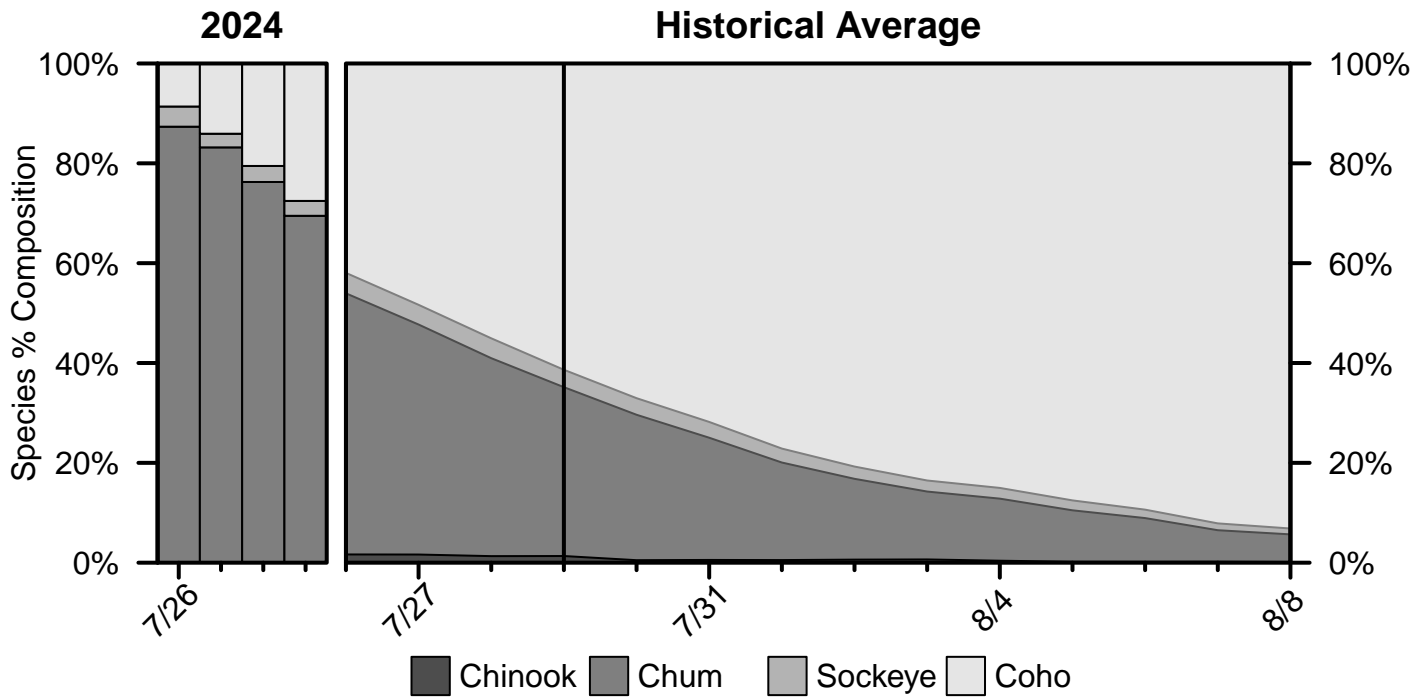


For more detailed information, see the [coho salmon summary](#).

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Percent Composition by Salmon Species

Percent Composition Figure 1. Species percent composition in the BTF from 2024 and based on the historical average. The composition presented on each day represents the average composition over the past 2 days.



Coho Salmon Summary

Coho Salmon Table A1. Cumulative CPUE from the BTF.

Date	2024	2023	2022	2021	2020	5-Yr Avg.	2008 - 2023 Avg.
7/26	57	267	20	109	49	106	196
7/27	74	329	29	140	70	137	239
7/28	98	401	43	176	77	166	297
7/29	130	449	66	214	113	201	361
7/30		469	81	253	133	224	422
7/31		506	91	290	157	248	498
8/1		539	112	322	192	276	576
EOS		4,160	1,281	1,696	1,822	2,152	2,897

*** The Kuskokwim River sonar ended operations on 7/25 with a total passage estimate of **20,560 coho salmon**, which was above the 2018-2023 average of **13,053 coho salmon** for this date.

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Chinook, Chum, and Sockeye Salmon Summaries

Chinook Salmon Summary

Chinook Salmon Table A1. Cumulative CPUE from the BTF.

Date	2024	2023	2022	2021	2020	5-Yr Avg.	2008 - 2023 Avg.
7/26	326	379	499	530	480	546	544
7/27	326	379	499	532	481	547	545
7/28	326	379	499	532	481	547	545
7/29	326	379	500	532	483	548	546
7/30		379	502	532	483	549	546
EOS		382	504	532	487	551	550

*** The Kuskokwim River sonar ended operations on 7/25 with a total passage estimate of **143,323 Chinook salmon**, which was above the 2018-2023 average of **119,863 Chinook salmon** for this date.

*** The ATF ended operations on 7/15 with an EOS cumulative CPUE value of **2,673 for Chinook salmon**, which was above the 2019-2023 average EOS cumulative CPUE of **1,683** .

Chum Salmon Summary

Chum Salmon Table A1. Cumulative CPUE from the BTF.

Date	2024	2023	2022	2021	2020	5-Yr Avg.	2008 - 2023 Avg.
7/26	5,501	3,882	1,662	301	1,284	2,486	5,122
7/27	5,577	3,983	1,746	307	1,302	2,563	5,179
7/28	5,643	4,067	1,784	312	1,314	2,608	5,220
7/29	5,683	4,120	1,818	321	1,334	2,656	5,264
7/30		4,134	1,867	323	1,364	2,693	5,296
EOS		4,303	2,193	327	1,442	2,938	5,509

*** The Kuskokwim River sonar ended operations on 7/25 with a total passage estimate of **254,537 chum salmon**, which was above the 2018-2023 average of **220,041 chum salmon** for this date.

*** The ATF ended operations on 7/15 with an EOS cumulative CPUE value of **5,906 for chum salmon** , which was above the 2019-2023 average EOS cumulative CPUE of **1,220**.

Sockeye Salmon Summary

Sockeye Salmon Table A1. Cumulative CPUE from the BTF.

Date	2024	2023	2022	2021	2020	5-Yr Avg.	2008 - 2023 Avg.
7/26	554	1,762	1,348	1,656	1,017	1,650	1,674
7/27	555	1,762	1,349	1,665	1,026	1,657	1,681
7/28	558	1,763	1,354	1,668	1,030	1,665	1,688
7/29	561	1,769	1,354	1,669	1,032	1,674	1,696
7/30		1,769	1,356	1,671	1,037	1,678	1,701
EOS		1,788	1,372	1,694	1,060	1,720	1,749

*** The Kuskokwim River sonar ended operations on 7/25 with a total passage estimate of **695,228 sockeye salmon**, which was below the 2018-2023 average of **735,502 sockeye salmon** for this date.

*** The ATF ended operations on 7/15 with an EOS cumulative CPUE value of **651 for sockeye salmon** , which was above the 2019-2023 average EOS cumulative CPUE of **153** .

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Kuskokwim River In-season Harvest and Effort Estimates

7/16/2024 Subsistence Harvest Opportunity (Set Nets Only)

Opportunity Time Period: 12:00 PM – 11:59 PM (12 Hours)

Area Covered by Estimates: Tuntutuliak ↔ Bogus Cr.



Data Sources

TABLE 1. The number and percent of fisher interviews conducted by location and organization.

Data Source	Interviews	Percent
Other Villages (KRITFC)	14	93%
Bethel Boat Harbor (ONC)	1	7%
Total	15	100%

TABLE 2. The time each flight was conducted and fishers counted each flight.

Time Information			Nets Counted	
Start Time	End Time	Hours	Drift	Set
5:42 PM	7:26 PM	1.73	0	18

Effort Estimates

- An estimated **18** set net trips occurred.

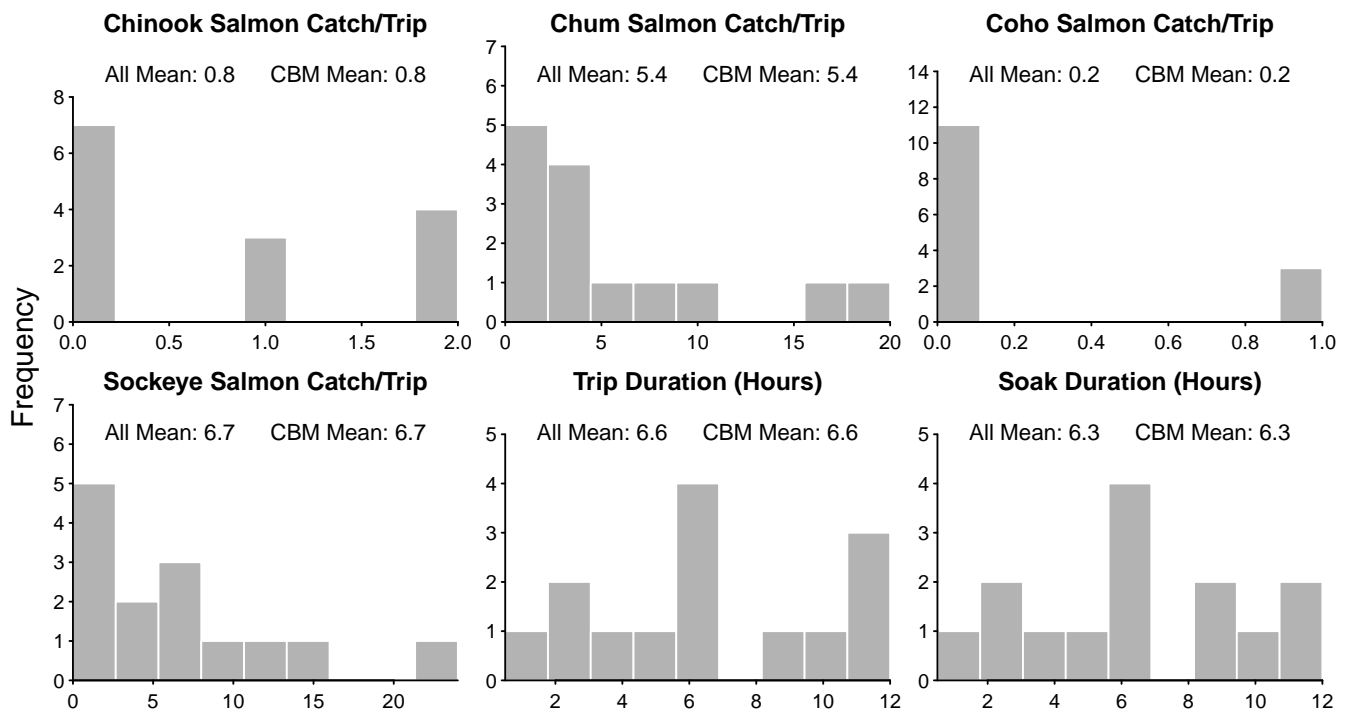
Harvest Estimates

- An estimated total of **482 (225 – 786)** salmon were harvested.
 - An estimated total of **50 (8 – 110)** Chinook salmon were harvested.
 - An estimated total of **145 (91 – 205)** chum salmon were harvested.
 - An estimated total of **39 (0 – 105)** coho salmon were harvested.
 - An estimated total of **249 (111 – 403)** sockeye salmon were harvested.

TABLE 3. Summaries by river stratum (area) for set nets. Numbers in parentheses are 95% confidence intervals.

Stratum	Interviews	Effort Est.	Estimated Harvest				Total
			Chinook	Chum	Coho	Sockeye	
Tuntutuliak ↔ Johnson R.	0	0	0 (0 – 0)	0 (0 – 0)	0 (0 – 0)	0 (0 – 0)	0 (0 – 0)
Johnson R. ↔ Napaskiak	0	2	6 (1 – 12)	16 (10 – 23)	4 (0 – 12)	28 (12 – 45)	54 (25 – 88)
Napaskiak ↔ Akiachak	7	9	25 (4 – 55)	72 (46 – 102)	20 (0 – 52)	124 (56 – 201)	241 (113 – 394)
Akiachak ↔ Akiak	0	5	14 (2 – 31)	40 (25 – 57)	11 (0 – 29)	69 (31 – 112)	134 (63 – 219)
Akiak ↔ Bogus Cr.	7	2	6 (1 – 12)	16 (10 – 23)	4 (0 – 12)	28 (12 – 45)	54 (25 – 88)
Total	14	18	50 (8 – 110)	145 (91 – 205)	39 (0 – 105)	249 (111 – 403)	482 (225 – 786)

FIGURE 1. Distributions of relevant quantities from all completed trips using set nets. The mean quantity by primary data source is shown in the top right; BBH = Bethel Boat Harbor (ONC), CBM = Other Villages (KRITFC).



Appendix A: Detailed Interview Summaries

Column Meanings

- **Area:** the area of the river the trip occurred in
- **N:** the number of interviews with usable information in each area
- **Min:** the minimum value among trips in each area
- **25%:** the value that 25% of trips fell below in each area
- **Mean:** the average value across trips in each area
- **75%:** the value that 75% of trips fell below in each area
- **Max:** the maximum value among trips in each area

Information is for set net trips only.

TABLE A1. Summary of set net catch per trip of Chinook salmon by fishing area.

Area	N	Min	25%	Mean	75%	Max
Napaskiak ↔ Akiachak	7	0	0	1	2	2
Akiak ↔ Bogus Cr.	7	0	0	1	1	2
All	14	0	0	1	2	2

TABLE A2. Summary of set net catch rate of Chinook salmon by fishing area (fish per 150 feet of net per hour).

Area	N	Min	25%	Mean	75%	Max
Napaskiak ↔ Akiachak	7	0	0.2	2.6	1.1	15
Akiak ↔ Bogus Cr.	7	0	0	0.3	0.4	1
All	14	0	0	1.4	0.8	15

TABLE A3. Summary of set net catch per trip of chum salmon by fishing area.

Area	N	Min	25%	Mean	75%	Max
Napaskiak ↔ Akiachak	7	0	2	6	9	16
Akiak ↔ Bogus Cr.	7	0	0	5	4	20
All	14	0	0	5	6	20

TABLE A4. Summary of set net catch rate of chum salmon by fishing area (fish per 150 feet of net per hour).

Area	N	Min	25%	Mean	75%	Max
Napaskiak ↔ Akiachak	7	0	2.9	5.1	5.5	15
Akiak ↔ Bogus Cr.	7	0	0	2.7	4.3	8.6
All	14	0	0.5	3.9	5.5	15

TABLE A5. Summary of set net catch per trip of coho salmon by fishing area.

Area	N	Min	25%	Mean	75%	Max
Napaskiak ↔ Akiachak	7	0	0	0	0	1
Akiak ↔ Bogus Cr.	7	0	0	0	0	1
All	14	0	0	0	0	1

TABLE A6. Summary of set net catch rate of coho salmon by fishing area (fish per 150 feet of net per hour).

Area	N	Min	25%	Mean	75%	Max
Napaskiak ↔ Akiachak	7	0	0	2.1	0	15
Akiak ↔ Bogus Cr.	7	0	0	0.1	0.2	0.5
All	14	0	0	1.1	0	15

TABLE A7. Summary of set net catch per trip of sockeye salmon by fishing area.

Area	N	Min	25%	Mean	75%	Max
Napaskiak ↔ Akiachak	7	1	5	8	11	15
Akiak ↔ Bogus Cr.	7	0	2	5	4	24
All	14	0	2	7	10	24

TABLE A8. Summary of set net catch rate of sockeye salmon by fishing area (fish per 150 feet of net per hour).

Area	N	Min	25%	Mean	75%	Max
Napaskiak ↔ Akiachak	7	0.4	3.5	10.4	7.2	45
Akiak ↔ Bogus Cr.	7	0	0.4	3.4	5.8	10.3
All	14	0	0.6	6.9	7.6	45

TABLE A9. Summary of set net percent composition of Chinook salmon by fishing area.

Area	N	Min	25%	Mean	75%	Max
Napaskiak ↔ Akiachak	7	0%	3%	13%	15%	50%
Akiak ↔ Bogus Cr.	7	0%	0%	4%	3%	20%
All	14	0%	0%	9%	13%	50%

TABLE A10. Summary of set net trip duration by fishing area.

Area	N	Min	25%	Mean	75%	Max
Napaskiak ↔ Akiachak	7	0.5	3.5	4.4	6	6
Akiak ↔ Bogus Cr.	7	3	7.5	8.8	11	12
All	14	0.5	4.2	6.6	9.4	12

TABLE A11. Summary of set net active fishing hours by fishing area.

Area	N	Min	25%	Mean	75%	Max
Napaskiak ↔ Akiachak	7	0.5	3.2	4.2	5.8	6
Akiak ↔ Bogus Cr.	7	2	7.4	8.4	10.5	12
All	14	0.5	4	6.3	8.8	12

Appendix B: Non-salmon Harvest Information

- An estimated total of **77 (1 – 207)** nonsalmon were harvested.
 - An estimated total of **75 (0 – 206)** sheefish were harvested.
 - An estimated total of **3 (0 – 7)** all whitefishes were harvested.

TABLE B1. Summaries by river stratum (area) for set nets. Numbers in parentheses are 95% confidence intervals.

Stratum	Interviews	Effort Est.	Estimated Harvest		
			Sheefish	Whitefish	Total
Tuntutuliak ↔ Johnson R.	0	0	0 (0 – 0)	0 (0 – 0)	0 (0 – 0)
Johnson R. ↔ Napaskiak	0	2	8 (0 – 23)	0 (0 – 1)	8 (0 – 23)
Napaskiak ↔ Akiachak	7	9	37 (0 – 103)	1 (0 – 3)	39 (1 – 104)
Akiachak ↔ Akiak	0	5	21 (0 – 57)	1 (0 – 2)	21 (0 – 58)
Akiak ↔ Bogus Cr.	7	2	8 (0 – 23)	0 (0 – 1)	8 (0 – 23)
Total	14	18	75 (0 – 206)	3 (0 – 7)	77 (1 – 207)

TABLE B2. Summary of set net catch per trip of sheefish by fishing area.

Area	N	Min	25%	Mean	75%	Max
Napaskiak ↔ Akiachak	7	0	0	0	0	2
Akiak ↔ Bogus Cr.	7	0	0	0	0	1
All	14	0	0	0	0	2

TABLE B3. Summary of set net catch per trip of all whitefishes by fishing area.

Area	N	Min	25%	Mean	75%	Max
Napaskiak ↔ Akiachak	7	0	0	0	0	1
Akiak ↔ Bogus Cr.	7	0	0	0	0	0
All	14	0	0	0	0	1

Kuskokwim River In-season Harvest and Effort Estimates

7/20/2024 Subsistence Harvest Opportunity (Drift & Set Nets)

Opportunity Time Period: 12:00 AM – 12:00 PM (12 Hours)

Area Covered by Estimates: Tuntutuliak ↔ Bogus Cr.



Data Sources

TABLE 1. The number and percent of fisher interviews conducted by location and organization.

Data Source	Interviews	Percent
Bethel Boat Harbor (ONC)	10	71%
Other Villages (KRITFC)	4	29%
Total	14	100%

Of these interviews, **8** were from drift nets and **6** were from set nets.

TABLE 2. The time each flight was conducted and fishers counted each flight.

Time Information			Nets Counted	
Start Time	End Time	Hours	Drift	Set
8:39 AM	10:21 AM	1.7	5	7

Effort Estimates

- An estimated **8** drift boat trips occurred.
 - An estimated **3** trips started and ended when no flights occurred.
- An estimated **7** set net trips occurred.

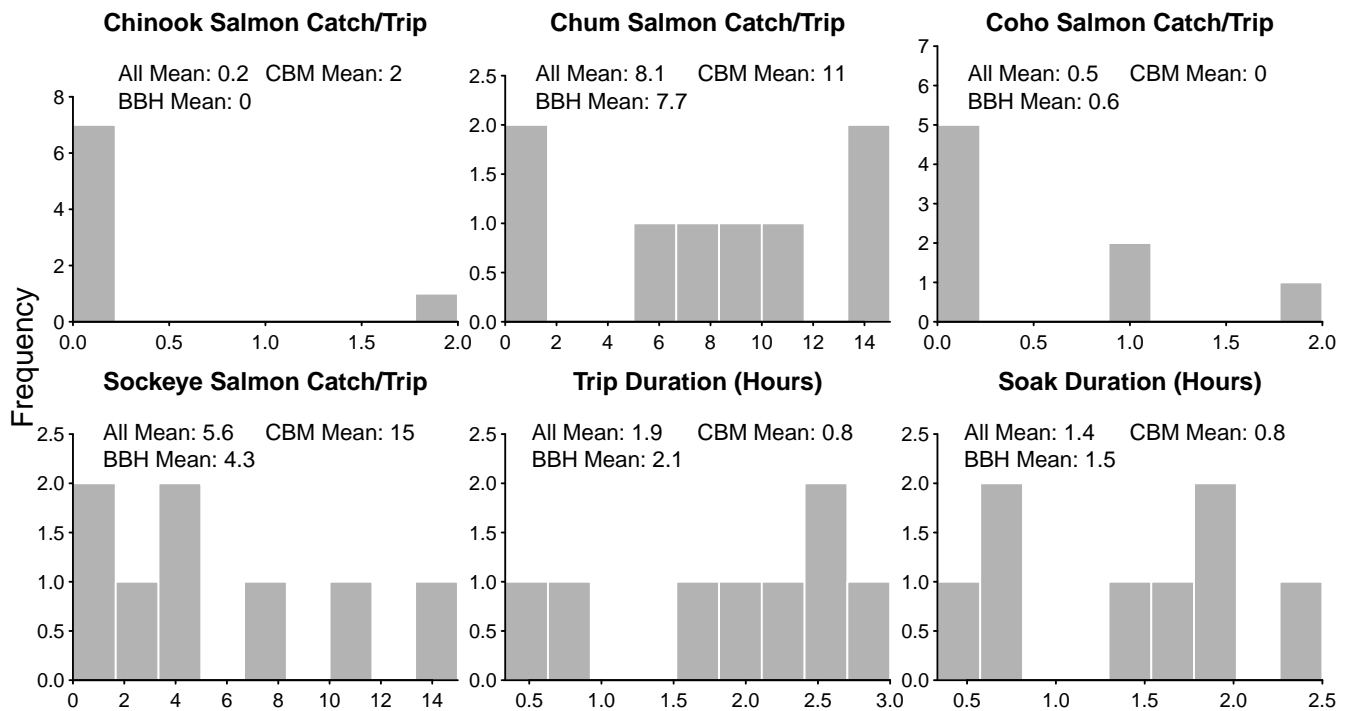
Harvest Estimates

- An estimated total of **287 (118 – 429)** salmon were harvested.
 - An estimated total of **12 (0 – 34)** Chinook salmon were harvested.
 - An estimated total of **156 (67 – 237)** chum salmon were harvested.
 - An estimated total of **8 (0 – 22)** coho salmon were harvested.
 - An estimated total of **110 (37 – 171)** sockeye salmon were harvested.
- Harvest by set nets accounted for an estimated **205 (94 – 296)** total salmon (**6%** Chinook salmon, **52%** chum salmon, **1%** coho salmon, and **41%** sockeye salmon).

TABLE 3. Summaries by river stratum (area) for drift nets. Numbers in parentheses are 95% confidence intervals.

Stratum	Interviews	Effort Est.	Estimated Harvest				Total
			Chinook	Chum	Coho	Sockeye	
Tuntutuliak ↔ Johnson R.	0	0	0 (0 – 0)	0 (0 – 0)	0 (0 – 0)	0 (0 – 0)	0 (0 – 0)
Johnson R. ↔ Napaskiak	2	2	0 (0 – 0)	21 (12 – 30)	3 (0 – 5)	11 (6 – 14)	34 (20 – 45)
Napaskiak ↔ Akiachak	6	6	0 (0 – 0)	63 (36 – 90)	8 (0 – 16)	32 (18 – 42)	103 (60 – 136)
Akiachak ↔ Akiak	0	0	0 (0 – 0)	0 (0 – 0)	0 (0 – 0)	0 (0 – 0)	0 (0 – 0)
Akiak ↔ Bogus Cr.	0	0	0 (0 – 0)	0 (0 – 0)	0 (0 – 0)	0 (0 – 0)	0 (0 – 0)
Total	8	8	0 (0 – 0)	83 (54 – 113)	11 (0 – 20)	43 (26 – 55)	137 (92 – 176)

FIGURE 1. Distributions of relevant quantities from all completed trips using drift nets. The mean quantity by primary data source is shown in the top right; BBH = Bethel Boat Harbor (ONC), CBM = Other Villages (KRITFC).



Appendix A: Detailed Interview Summaries

Column Meanings

- **Area:** the area of the river the trip occurred in
- **N:** the number of interviews with usable information in each area
- **Min:** the minimum value among trips in each area
- **25%:** the value that 25% of trips fell below in each area
- **Mean:** the average value across trips in each area
- **75%:** the value that 75% of trips fell below in each area
- **Max:** the maximum value among trips in each area

Information is for drift net trips only.

TABLE A1. Summary of drift net catch per trip of Chinook salmon by fishing area.

Area	N	Min	25%	Mean	75%	Max
Johnson R. ↔ Napaskiak	2	0	0	0	0	0
Napaskiak ↔ Akiachak	6	0	0	0	0	2
All	8	0	0	0	0	2

TABLE A2. Summary of drift net catch rate of Chinook salmon by fishing area (fish per 150 feet of net per hour).

Area	N	Min	25%	Mean	75%	Max
Johnson R. ↔ Napaskiak	1	0	0	0	0	0
Napaskiak ↔ Akiachak	2	0	0	0	0	0
All	3	0	0	0	0	0

TABLE A3. Summary of drift net catch per trip of chum salmon by fishing area.

Area	N	Min	25%	Mean	75%	Max
Johnson R. ↔ Napaskiak	2	0	2	3	4	6
Napaskiak ↔ Akiachak	6	1	8	10	14	15
All	8	0	5	8	12	15

TABLE A4. Summary of drift net catch rate of chum salmon by fishing area (fish per 150 feet of net per hour).

Area	N	Min	25%	Mean	75%	Max
Johnson R. ↔ Napaskiak	1	3.6	3.6	3.6	3.6	3.6
Napaskiak ↔ Akiachak	2	7.5	9.6	11.6	13.7	15.8
All	3	3.6	5.6	9	11.6	15.8

TABLE A5. Summary of drift net catch per trip of coho salmon by fishing area.

Area	N	Min	25%	Mean	75%	Max
Johnson R. ↔ Napaskiak	2	0	0	0	0	0
Napaskiak ↔ Akiachak	6	0	0	1	1	2
All	8	0	0	0	1	2

TABLE A6. Summary of drift net catch rate of coho salmon by fishing area (fish per 150 feet of net per hour).

Area	N	Min	25%	Mean	75%	Max
Johnson R. ↔ Napaskiak	1	0	0	0	0	0
Napaskiak ↔ Akiachak	2	0	1.1	2.3	3.4	4.5
All	3	0	0	1.5	2.3	4.5

TABLE A7. Summary of drift net catch per trip of sockeye salmon by fishing area.

Area	N	Min	25%	Mean	75%	Max
Johnson R. ↔ Napaskiak	2	0	1	2	3	4
Napaskiak ↔ Akiachak	6	0	4	7	10	15
All	8	0	2	6	8	15

TABLE A8. Summary of drift net catch rate of sockeye salmon by fishing area (fish per 150 feet of net per hour).

Area	N	Min	25%	Mean	75%	Max
Johnson R. ↔ Napaskiak	1	2.4	2.4	2.4	2.4	2.4
Napaskiak ↔ Akiachak	2	1.5	3.9	6.4	8.8	11.3
All	3	1.5	2	5.1	6.8	11.3

TABLE A9. Summary of drift net percent composition of Chinook salmon by fishing area.

Area	N	Min	25%	Mean	75%	Max
Johnson R. ↔ Napaskiak	2	0%	0%	0%	0%	0%
Napaskiak ↔ Akiachak	6	0%	0%	1%	0%	7%
All	8	0%	0%	1%	0%	7%

TABLE A10. Summary of drift net trip duration by fishing area.

Area	N	Min	25%	Mean	75%	Max
Johnson R. ↔ Napaskiak	1	2.7	2.7	2.7	2.7	2.7
Napaskiak ↔ Akiachak	2	2	2.1	2.2	2.2	2.3
All	3	2	2.2	2.3	2.5	2.7

TABLE A11. Summary of drift net active fishing hours by fishing area.

Area	N	Min	25%	Mean	75%	Max
Johnson R. ↔ Napaskiak	1	1.7	1.7	1.7	1.7	1.7
Napaskiak ↔ Akiachak	2	0.7	1	1.3	1.7	2
All	3	0.7	1.2	1.4	1.8	2

Appendix B: Non-salmon Harvest Information

- An estimated total of **17 (3 – 34)** nonsalmon were harvested.
 - An estimated total of **1 (0 – 4)** sheefish were harvested.
 - An estimated total of **16 (3 – 32)** all whitefishes were harvested.
- Harvest by set nets accounted for an estimated **13 (2 – 32)** total nonsalmon (**8%** sheefish and **100%** all whitefishes).

TABLE B1. Summaries by river stratum (area) for drift nets. Numbers in parentheses are 95% confidence intervals.

Stratum	Interviews	Effort Est.	Estimated Harvest		
			Sheefish	Whitefish	Total
Tuntutuliak ↔ Johnson R.	0	0	0 (0 – 0)	0 (0 – 0)	0 (0 – 0)
Johnson R. ↔ Napaskiak	2	2	0 (0 – 0)	1 (0 – 3)	1 (0 – 3)
Napaskiak ↔ Akiachak	6	6	0 (0 – 0)	4 (0 – 8)	4 (0 – 8)
Akiachak ↔ Akiak	0	0	0 (0 – 0)	0 (0 – 0)	0 (0 – 0)
Akiak ↔ Bogus Cr.	0	0	0 (0 – 0)	0 (0 – 0)	0 (0 – 0)
Total	8	8	0 (0 – 0)	6 (0 – 10)	6 (0 – 10)

TABLE B2. Summary of drift net catch per trip of sheefish by fishing area.

Area	N	Min	25%	Mean	75%	Max
Johnson R. ↔ Napaskiak	2	0	0	0	0	0
Napaskiak ↔ Akiachak	6	0	0	0	0	2
All	8	0	0	0	0	2

TABLE B3. Summary of drift net catch per trip of all whitefishes by fishing area.

Area	N	Min	25%	Mean	75%	Max
Johnson R. ↔ Napaskiak	2	0	0	0	0	0
Napaskiak ↔ Akiachak	6	0	0	0	1	1
All	8	0	0	0	0	1

South Peninsula Commercial Harvest

Species	Cumulative Harvest
Chinook	6,675
Sockeye	1,268,915
Coho	56,994
Pink	613,986
Chum	507,913

- The total June chum salmon harvest was 417,316 fish.
- Stock composition of the harvest (2023 data):
 - June Fishery: 39.5% Asia, **28.4% CWAK**, 20.0% East of Kodiak, 12.1% Other.
 - Post-June Fishery: 50.3% South Peninsula, 26.9% Chignik/Kodiak, 11.5% Asia, **2.6% CWAK**, 8.7% Other.
 - Entire Season: 41.5% South Peninsula, 22.9% Chignik/Kodiak, 16.6% Asia, **7.3% CWAK**, 11.7% Other.
- The Coastal Western Alaska (CWAK) group includes Bristol Bay, Kuskokwim, Yukon, and Norton Sound stocks.

Bering Sea Aleutian Island Bycatch

- Bycatch occurs in the Bering Sea and Aleutian Island (BSAI) groundfish fishery, which is managed by the National Marine Fisheries Service and is one of the most extensively monitored fisheries in the U.S.
- King salmon bycatch to date: **8,519** (all stocks)
- Non-king salmon bycatch to date: **15,760** (all stocks)

Helpful Links

AK Pen harvest numbers and information on the stock composition study are available at: [Alaska Peninsula Management Area Salmon, Alaska Department of Fish and Game](#).

Bycatch numbers are reported by the National Marine Fisheries Service, available at: <https://alaskafisheries.noaa.gov/fisheries-catch-landings?tid=286>.