

Kuskokwim River In-season Harvest and Effort Estimates

6/12/2021 Subsistence Harvest Opportunity (Drift & Set Nets)

Opportunity Time Period: 6:00 AM – 6:00 PM (12 Hours)

Area Covered by Estimates: Tuntutuliak ↔ Akiak

Contact Person(s): Kevin Whitworth (kevinwhitworth@kritfc.org), Katie Russell (krussell@nativecouncil.org)

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Special Action: https://fws.gov/uploadedFiles/3-KS-01-21_Final_5.7.2021.pdf



Data Sources

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

Data Source	Interviews	Percent
Bethel Boat Harbor (ONC)	121	54%
Other Villages (BSFA/KRITFC)	76	34%
Bethel Area Fish Camps (ONC)	29	13%
Total	226	100%

Of these interviews, **215** were from drift nets and **11** 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
9:17 AM	10:50 AM	1.55	274	19
3:00 PM	4:30 PM	1.50	250	24

Effort Estimates

- An estimated **381** total drift boat trips occurred.
 - An estimated **64%** of the trips counted on flight 2 were also counted on flight 1.
 - An estimated **18** trips were not counted during any flight.
- An estimated **23** total set net trips occurred.

Harvest Estimates

- An estimated total of **3,640 (3,190 – 4,110)** salmon were harvested.
 - An estimated total of **3,220 (2,830 – 3,630)** Chinook salmon were harvested.
 - An estimated total of **70 (40 – 90)** chum salmon were harvested.
 - An estimated total of **340 (240 – 460)** sockeye salmon were harvested.
- Harvest by set nets accounted for an estimated **150 (50 – 280)** total salmon (80% Chinook salmon, 7% chum salmon, and 13% sockeye salmon).

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

Stratum	Interviews	Effort Est.	Estimated Harvest			
			Chinook	Chum	Sockeye	Total
Tuntutuliak ↔ Johnson R.	19	80	670 (460 – 940)	20 (0 – 30)	140 (60 – 250)	830 (570 – 1,140)
Johnson R. ↔ Napaskiak	55	65	750 (580 – 920)	10 (0 – 20)	80 (50 – 130)	850 (670 – 1,030)
Napaskiak ↔ Akiachak	140	197	1,400 (1,160 – 1,650)	30 (10 – 40)	80 (60 – 110)	1,510 (1,250 – 1,780)
Akiachak ↔ Akiak	1	39	280 (230 – 330)	0 (0 – 10)	20 (10 – 20)	300 (250 – 360)
All	215	381	3,100 (2,740 – 3,510)	60 (40 – 80)	330 (230 – 440)	3,480 (3,050 – 3,950)

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 (BSFA/KRITFC), FC = Bethel Area Fish Camps (ONC).

