

Ahtna Intertribal Resource Commission**Proposal 72**

I am using one week from 2013 in this example. If proposal 72 were in place (with amended language to end July 19), there would have been 0 days of closure as the heatwave fell after the Chinook salmon season. Below is a comparison of the USGS stream temperature vs the average of 7 remote temperature sensor stations in the mainstem Gulkana from Sourdough up to past the counting tower. These sensors are all within the area that fishing occurs.

2023	Max Daily Temp (C)		
Date	USGS	Ave remote logger	Difference
20-Jul	16.5	16.4	0.1
21-Jul	18.3	18.2	0.1
22-Jul	19.1	19.2	-0.1
23-Jul	20.6	20.7	-0.1
24-Jul	20.6	21.7	-1.1
25-Jul	19.6	20.2	-0.6
26-Jul	20.4	22.1	-1.7

Remote sensors are calibrated at 0 and 20 degrees Celsius before deployment. They are deployed in duplicate at each site. Sites are tested for temperature with cross sectional transects to ensure well mixed temperatures.

Conclusion, the area that fishing occurs generally is warmer on average than the USGS temperature sensor indicates.

This is a project AITRC has in collaboration with USFWS and is currently a 4-year index.