

## **Outline**

#### Kuskokwim River Salmon Situation

- Chinook salmon
- Chum salmon
- Coho salmon

AYK Regional Salmon Situation

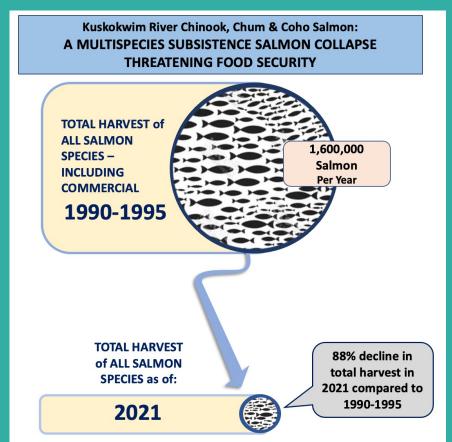


Credit Della Tinker



### **Kuskokwim Salmon Situation: Overview**

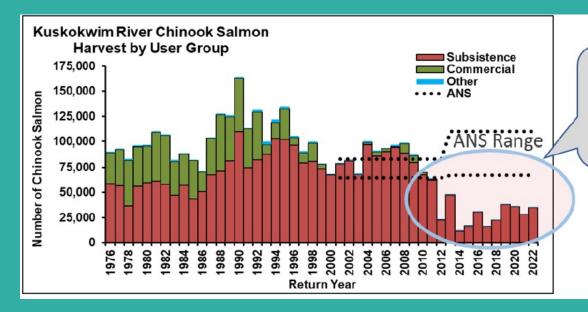
- The 2022 season was the most restricted subsistence fishing season.
- Below average Chinook salmon returns, with escapement goals met because of conservation closures.
- Unprecedentedly low chum and coho salmon returns.
- Strong sockeye salmon returns.
- Multi-species salmon collapse without an abundant "backup" species.
- Burden of conservation rests only on Kuskokwim communities.



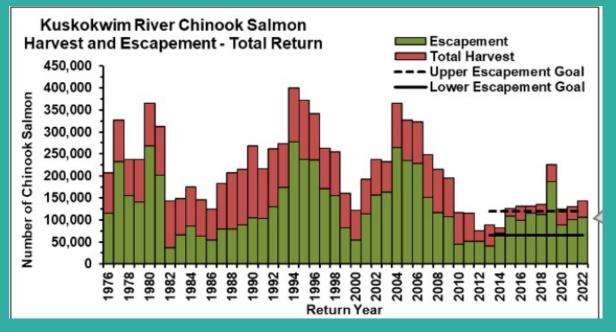


#### Kuskokwim Chinook Salmon 2022

- Total run: 143,000 fish (CI: 106,565–193,565; 41% below average)
- Spawner escapement: 105,000 fish
- Estimated lower river subsistence harvest: 29,950 fish (CI: 27,410–32,630)
- Harvest meeting roughly one-third of long-term harvest needs.



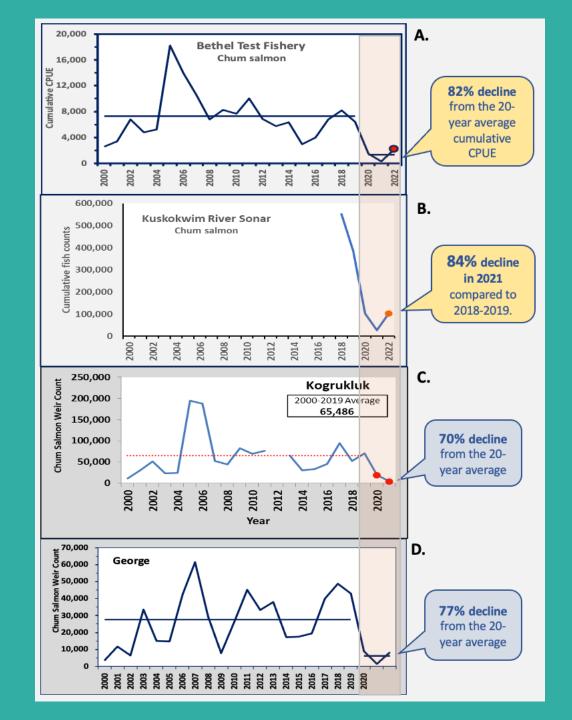
"Amounts
Necessary for
Subsistence"
(ANS) have not
been met since
2010





#### Kuskokwim Chum Salmon 2022

- No total run estimate.
- Kogrukluk River weir SEG (15,000–49,000 fish) not met in 2021 or 2022
- 2022 Kogrukluk spawner abundance: 13,471 fish
- Estimated lower river subsistence harvest: 3,630 fish (CI: 3,100–4,170)



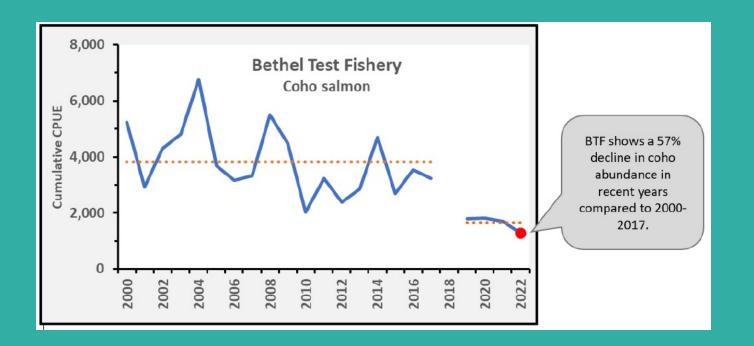


#### Kuskokwim Coho Salmon 2022

- Closures August 17–September 15.
- No total run estimate.
- No escapement or ANS levels met; lowest harvest and spawner abundance on record.

"It's devastation up here."

-Betty Magnuson (McGrath Native Community)





# **Experiences of our Communities**

- Windowed harvest opportunities & closures, June through September
- Increasing water temperatures
- Increasing sockeye & downward trend of Chinook/chum/coho salmon abundance
- Loss of & challenges to traditional fishing practices
- Continued salmon bycatch in BSAI and intercept in Area M









Credit KRITFC, Crystal Lang, Rachel Konteh



# **AYK** Regional Salmon **Situation**

#### CHUM SALMON CRASH THREATENS SUSTAINABILITY

Alaska Dept. of Fish & Game Arctic-Yukon-Kuskokwim Database Management System.

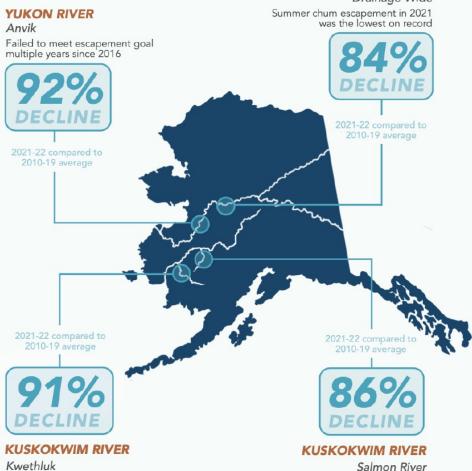
2022 escapement of chum salmon was the

lowest ever observed

### Impacts on Coastal Western Alaska subsistence communities from the recent chum salmon crash

#### YUKON RIVER

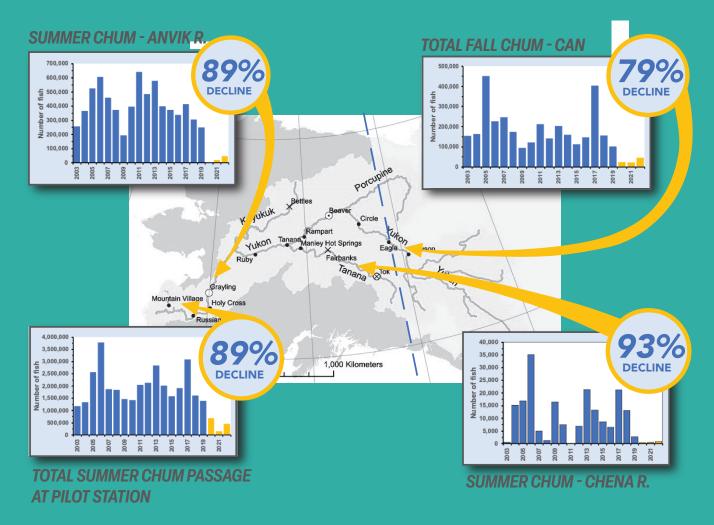
Drainage Wide



2021 & 2022 escapements of chum salmon were the lowest ever observed

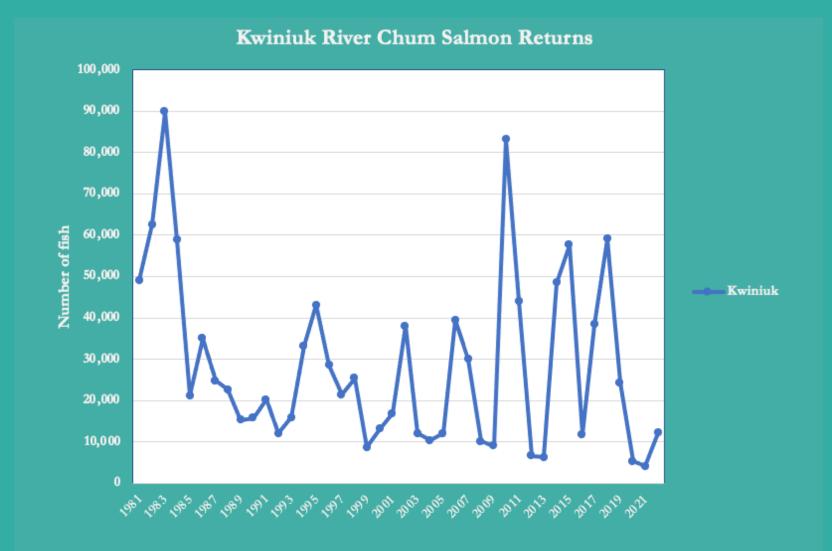


# **Snapshot: Yukon River**





# Snapshot: Kwiniuk River, Norton Sound



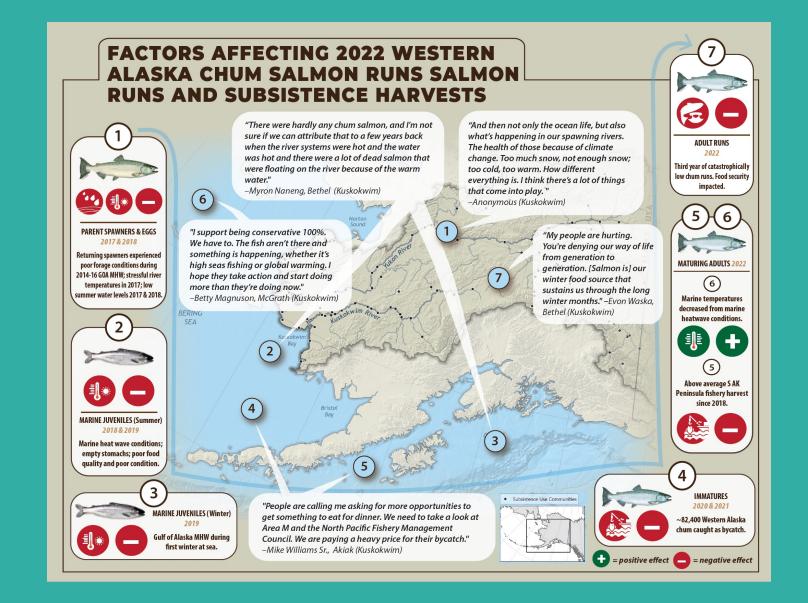


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We need to look at both ends, from the beginning of the routes of the salmon to the headwaters spawning grounds.

-James Nicori, Elder Advisor (Organized Village of Kwethluk)



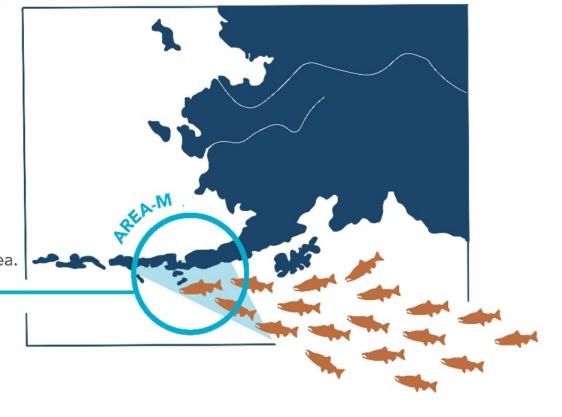


Graphic creation: Ocean Conservancy, KRITFC, ADF&G, USGS, NOAA Fisheries



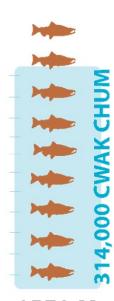
## INTERCEPT FISHERY

The June AREA M intercept fishery targets chum and sockeye as they pass from the Gulf of Alaska to the Bering Sea.





#### AREA M UNRESTRICTED HARVEST





#### **UNRESTRICTED HARVEST**

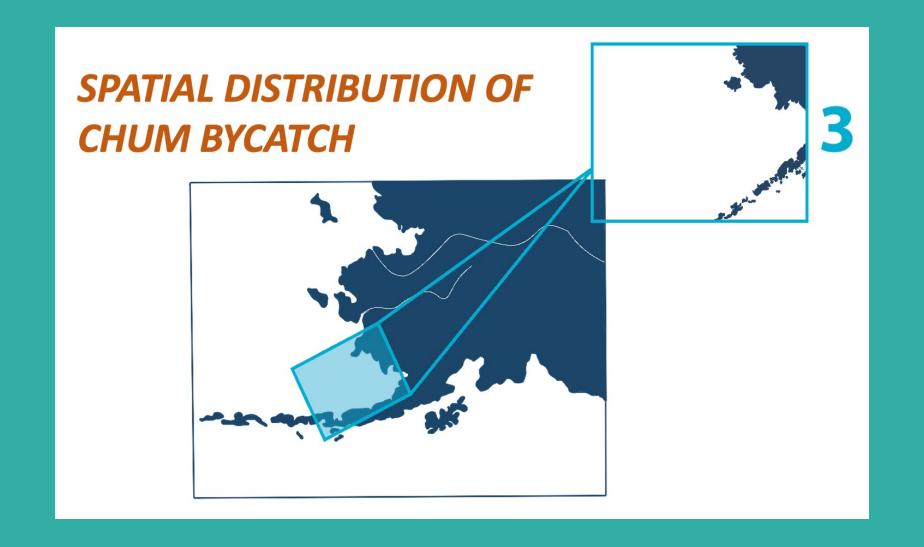
ADF&G and current BOF regulations allowed AREA M fishers to harvest over **314,000** Western Alaska chum salmon during 2021 - 2022

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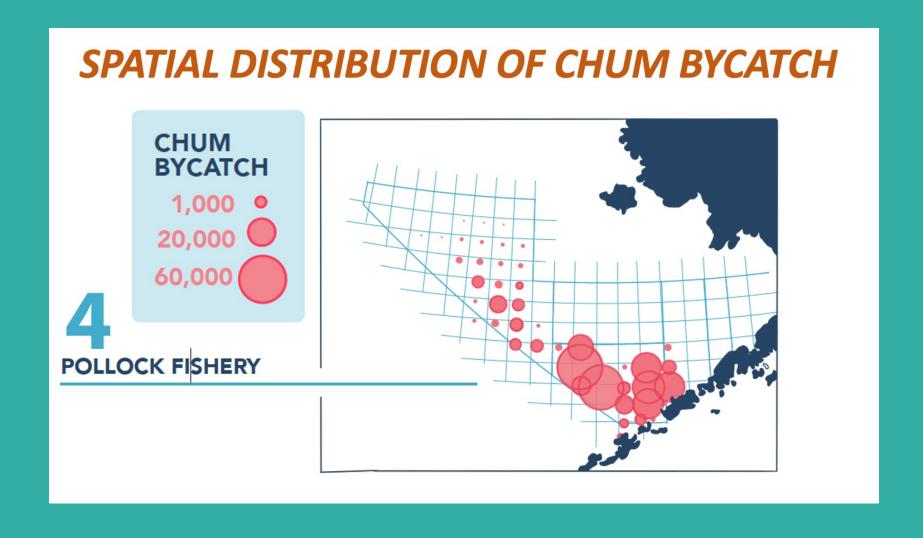
#### AREA M

Coastal Western Alaska (CWAK) chum salmon harvested in Area M in 2021-2022

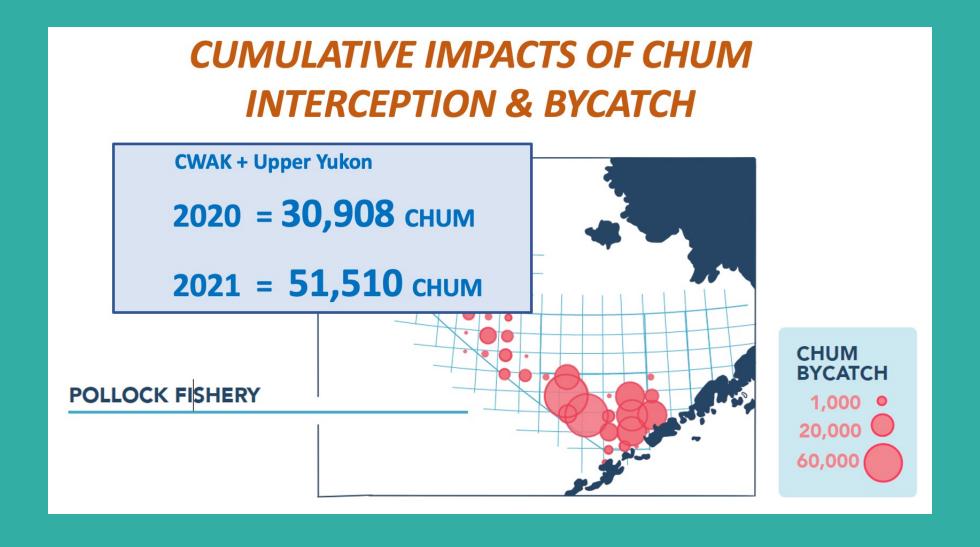














#### CUMULATIVE IMPACTS OF CHUM INTERCEPTION & BYCATCH

AREA M<br/>INTERCEPTION<br/>210,000

+

BSAI BYCATCH **51,500**  SALMON
HARVESTED
in 2021

= 261,500

In 2021, when AYK subsistence fisheries were closed or severely restricted & escapement goals were not met, over a quarter million chum salmon bound for CWAK were legally taken in commercial fisheries.



