

# Distribution of Juvenile Salmon in the Deshka Watershed

*Meditations on Minnow Trapping*

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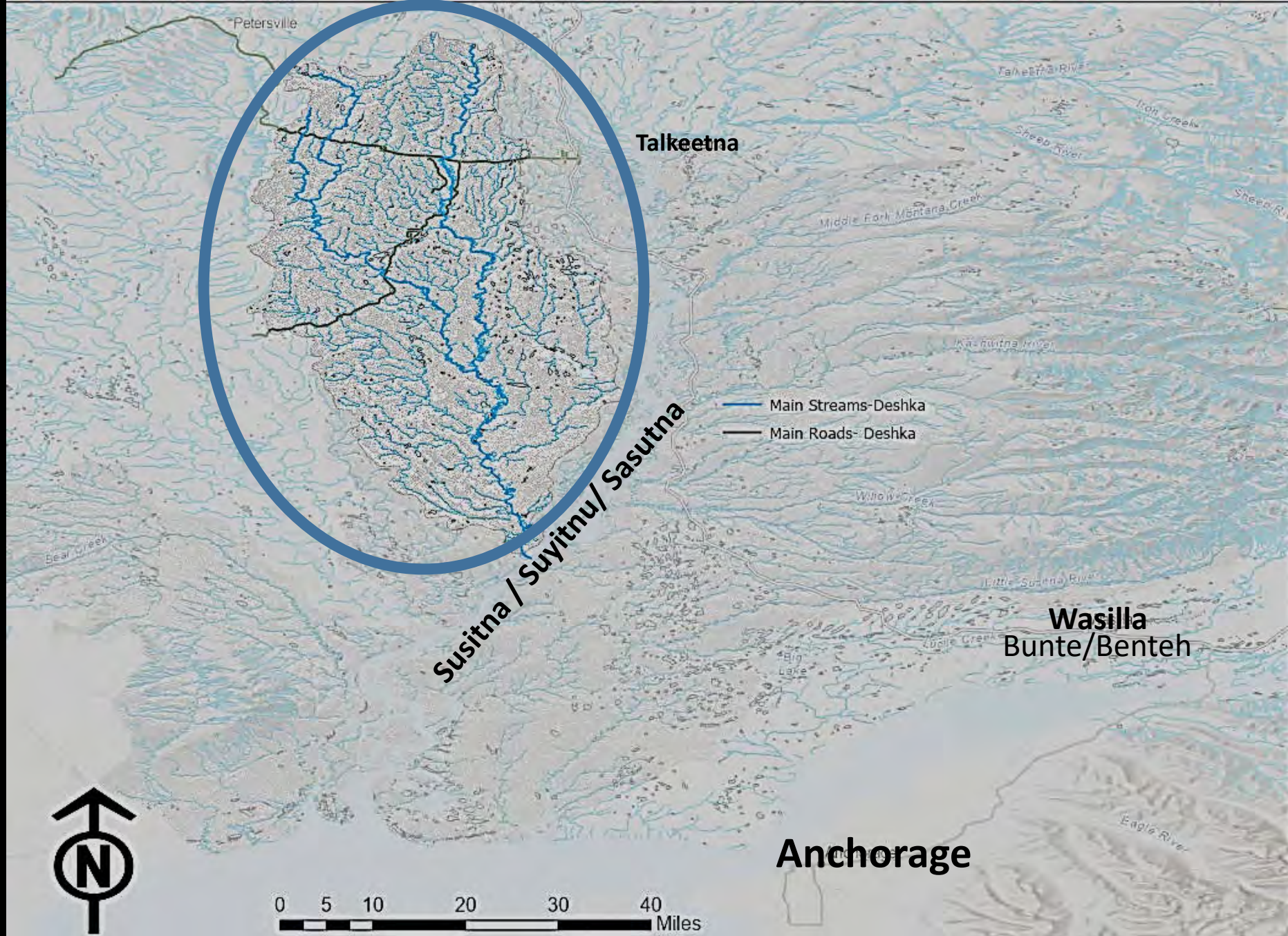
**USFWS Anchorage Field Office**



# What I am going to tell you

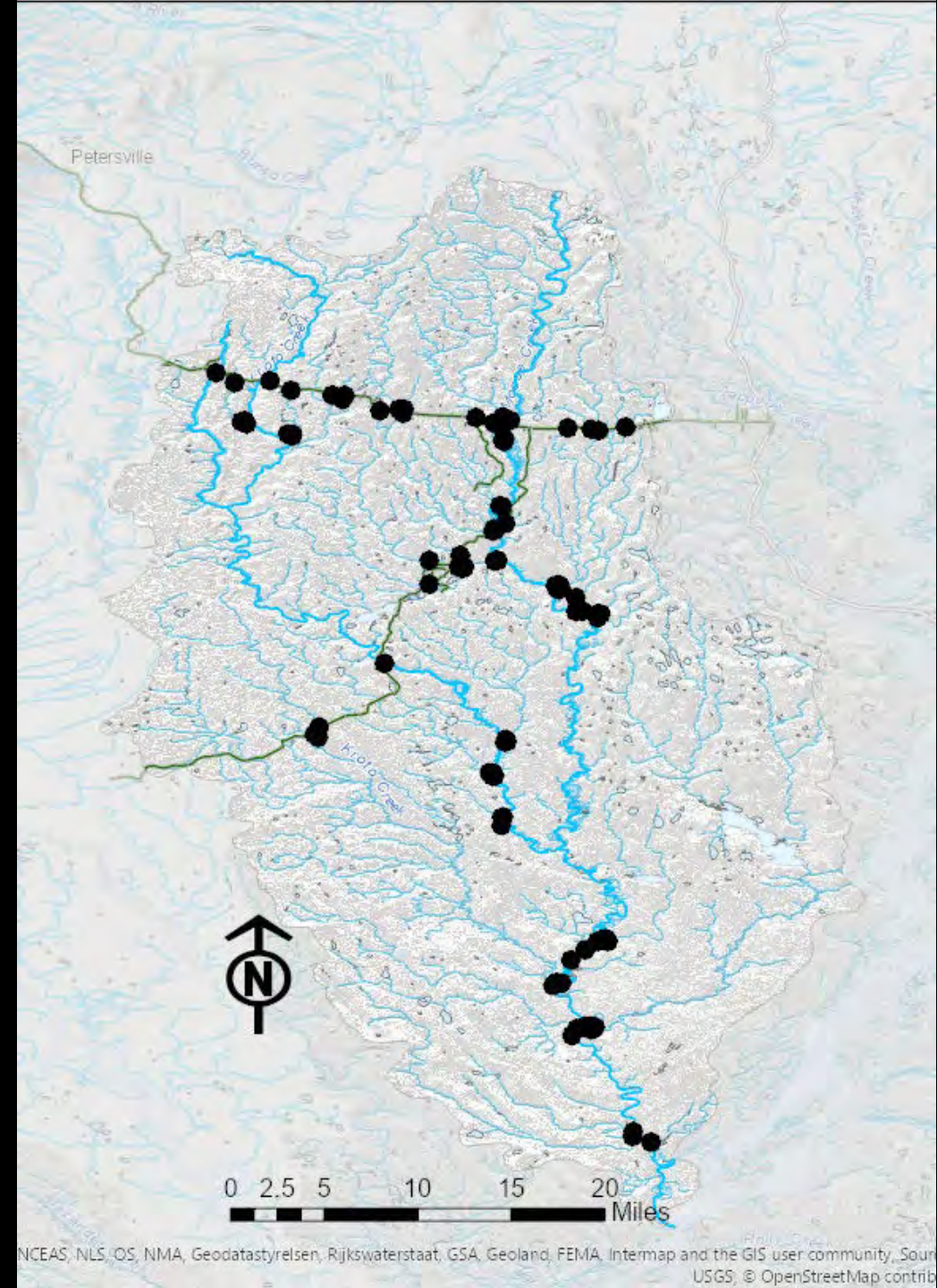
- Distribution of juvenile Chinook in the Deshka this season
- Distribution of juvenile Coho in the Deshka this season
- Similarities and differences





# Study Area/ Design

- Deshka River, Moose and Kroto Creeks and tributaries
- 6 stream orders, distributed across basin

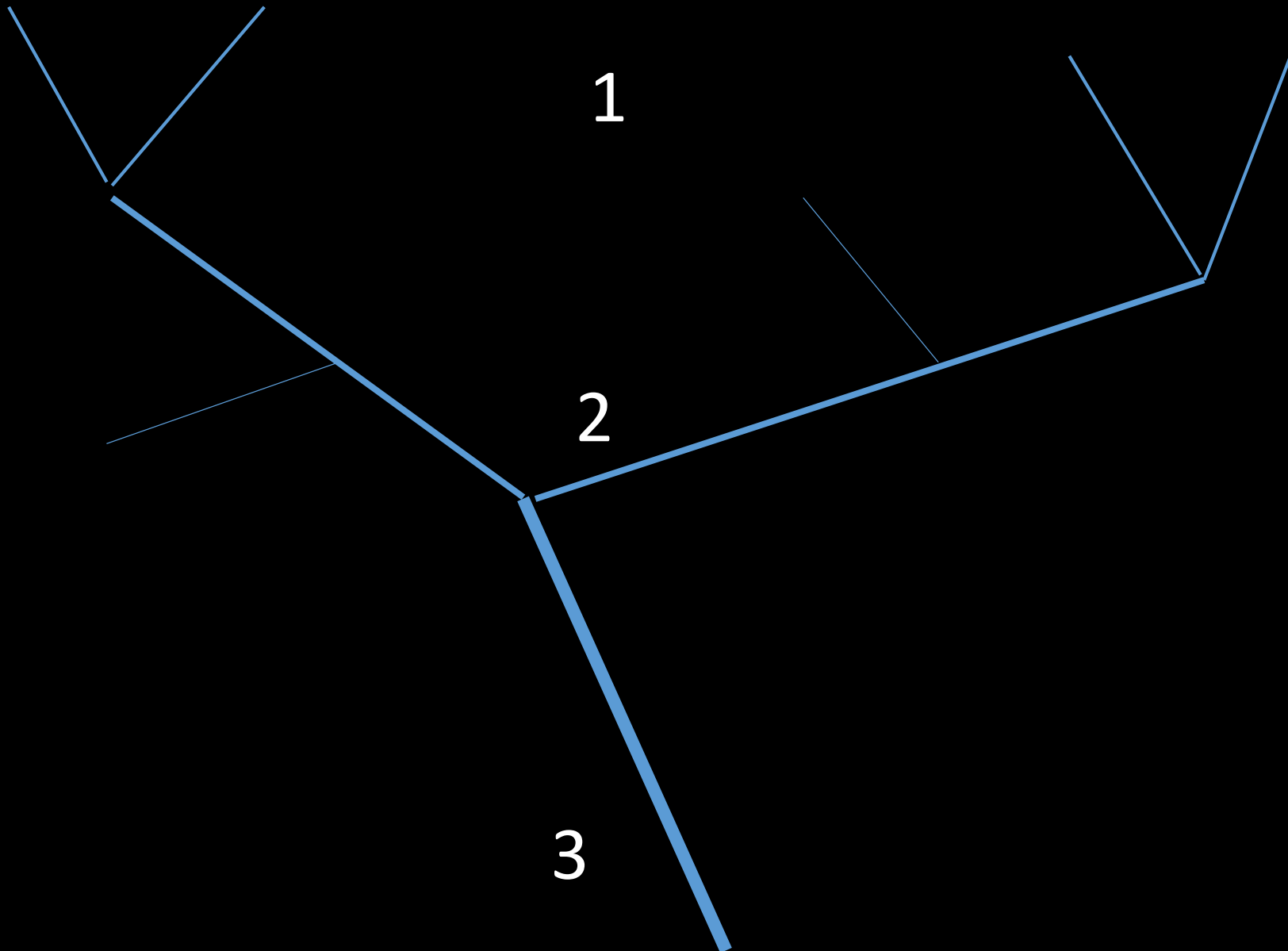


# Methods

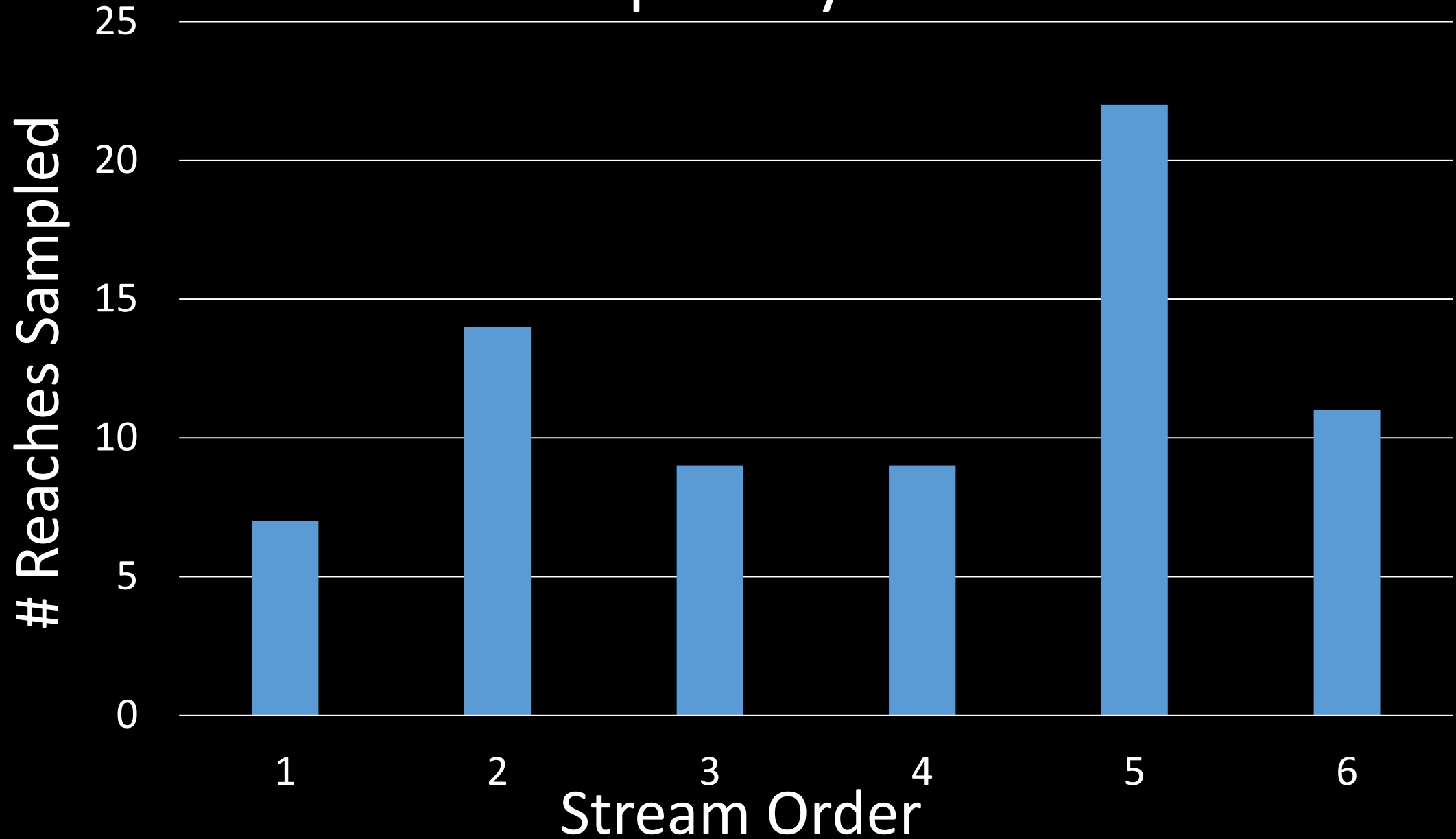
- Set 100 m transects, 10 minnow traps per transect baited with roe
- Traps set at ~10m intervals in representative and varied habitat
- Pull traps at 1 hour, process fish and assign to trap
- Trapping transects correspond to temperature loggers



# Strahler Steam Order

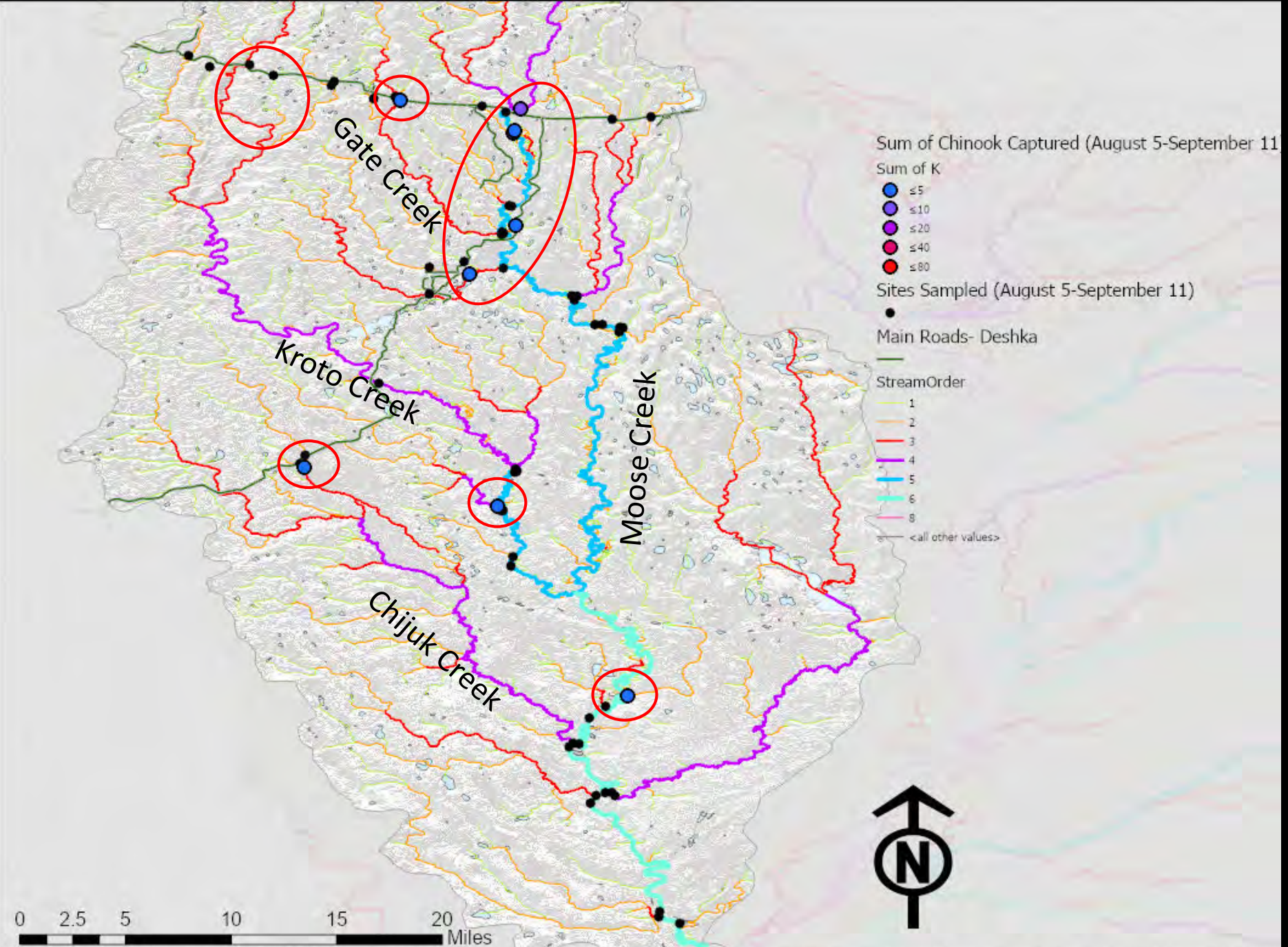


# Reaches Sampled By Stream Order



## Three Sampling Events:

- June 6 – July 1
- July 8 – August 7
- August 5 – September 11



Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap and the GIS user community, Sources: Esri, HERE, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

AVERAGE # CHINOOK PER TRAP

1.8  
1.6  
1.4  
1.2  
1.0  
0.8  
0.6  
0.4  
0.2  
0

Stream Order

1

2

3

4

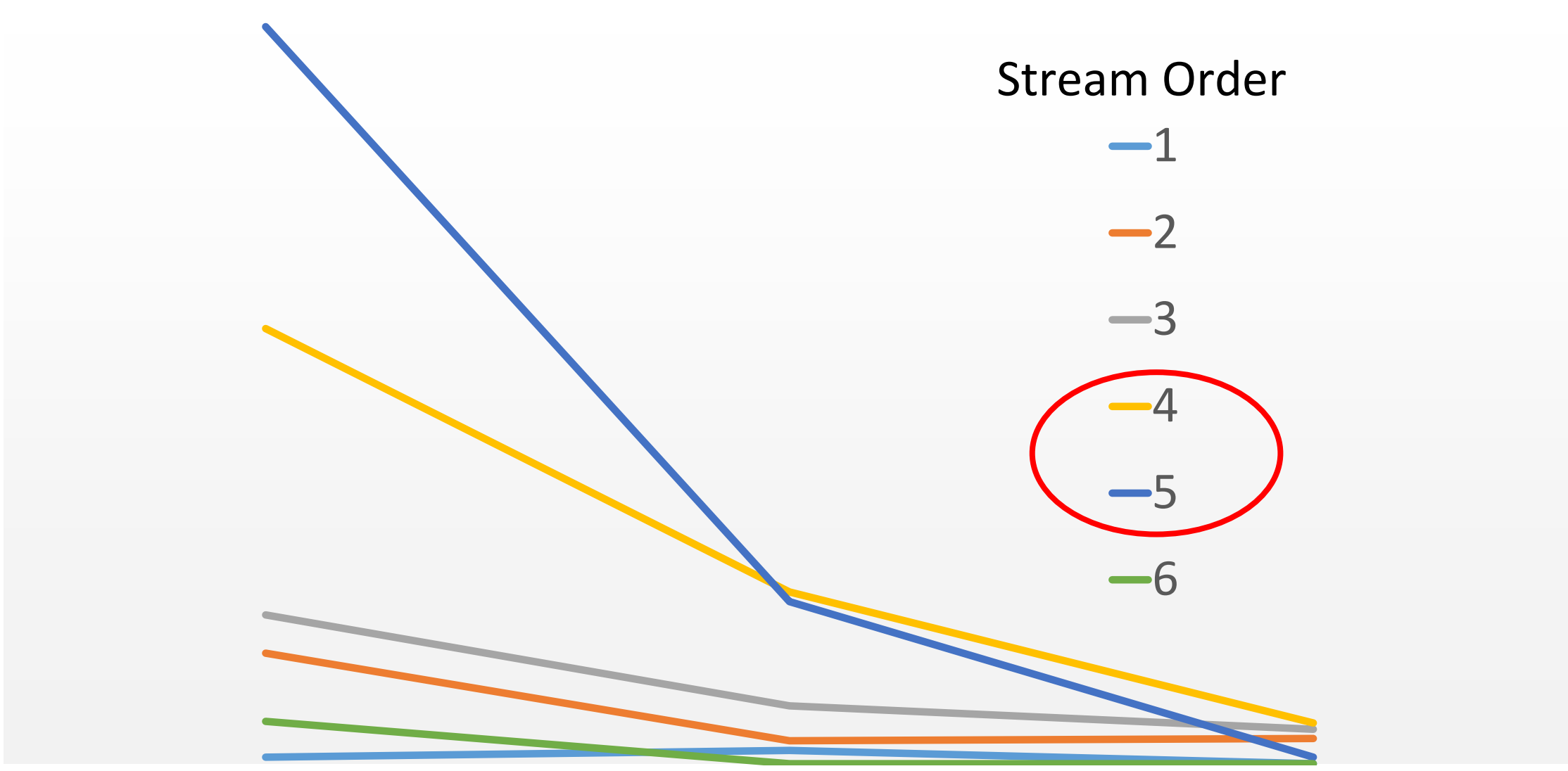
5

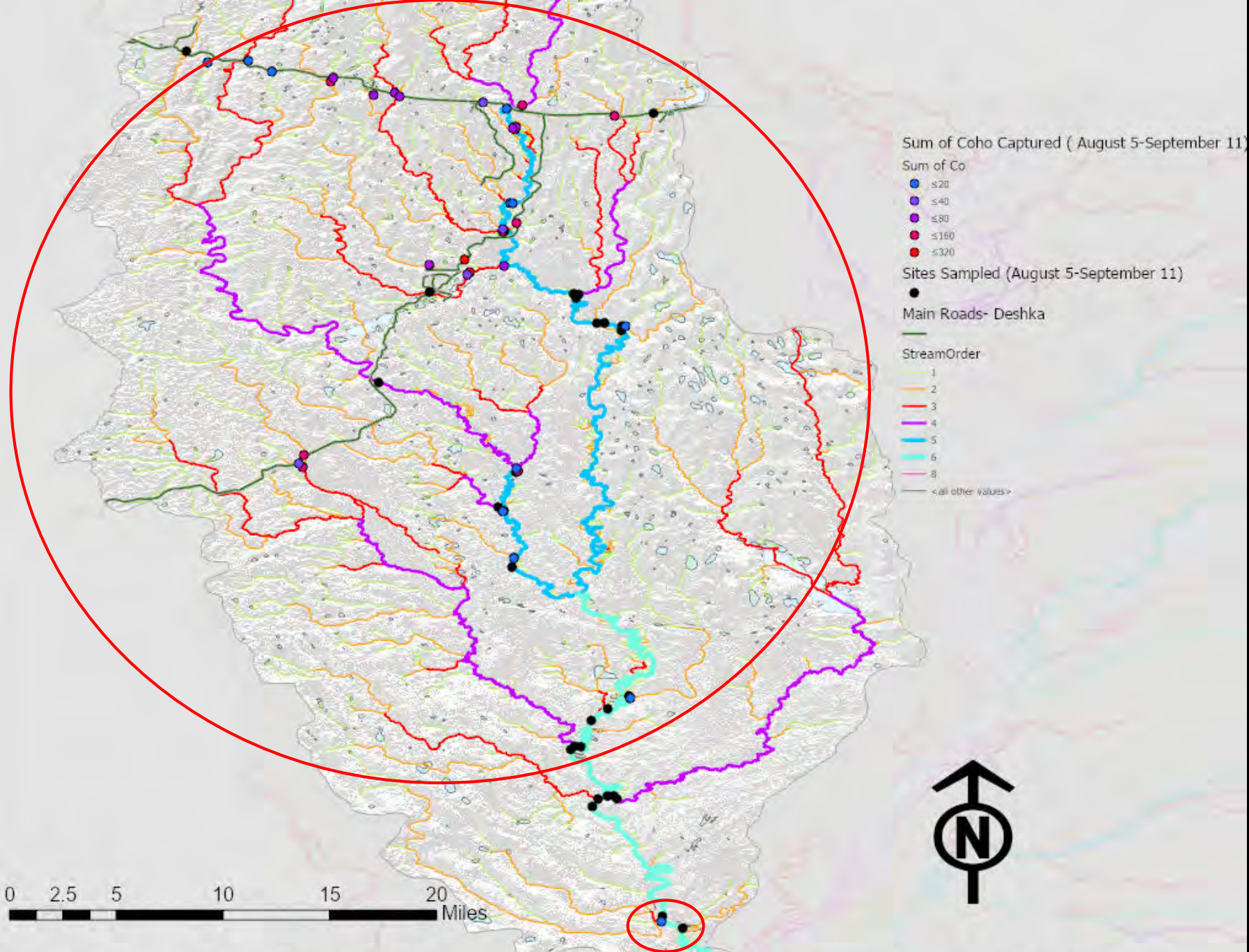
6

June

July

August



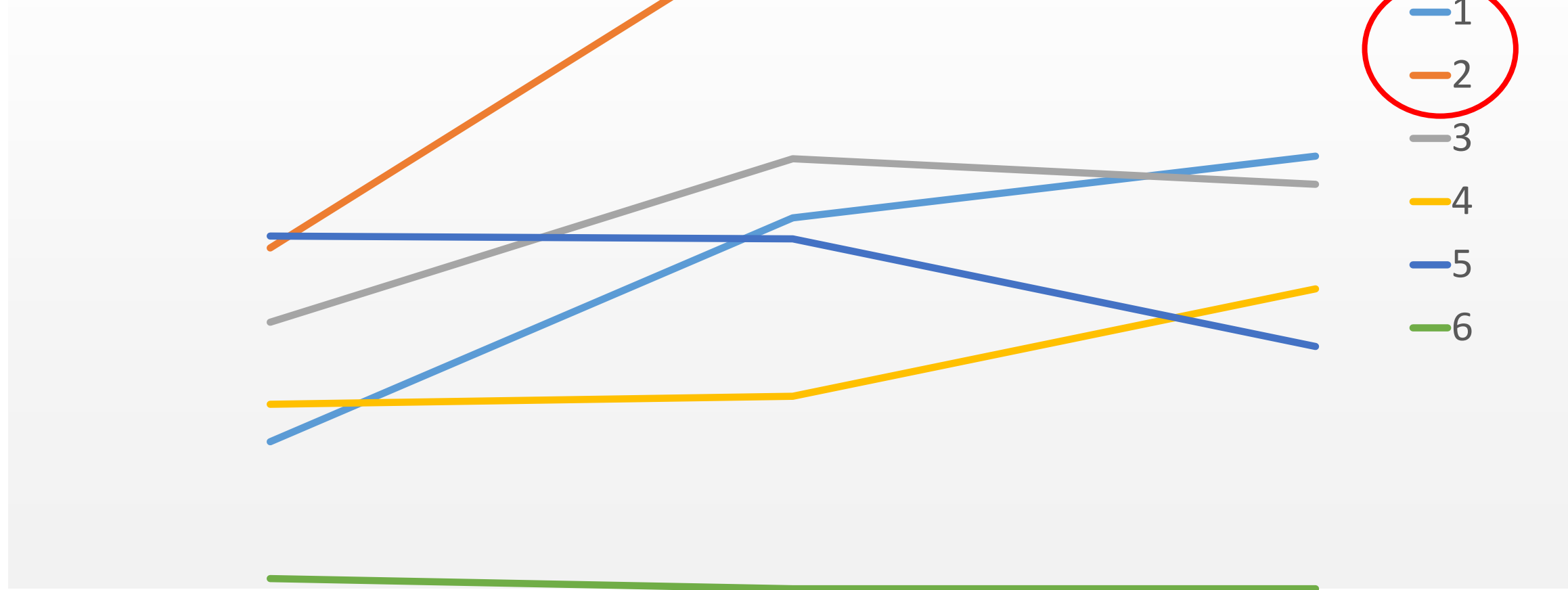
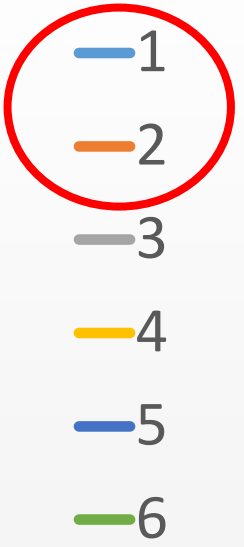


Average # of Coho Per Trap

9  
8  
7  
6  
5  
4  
3  
2  
1  
0

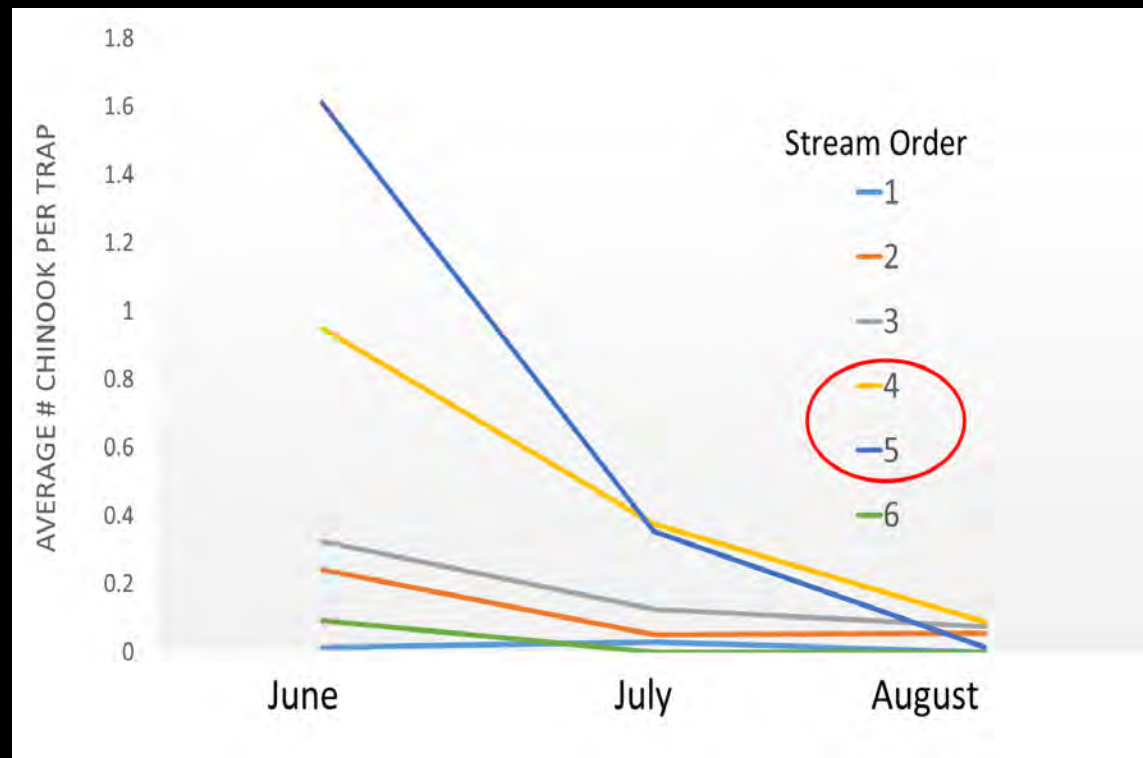
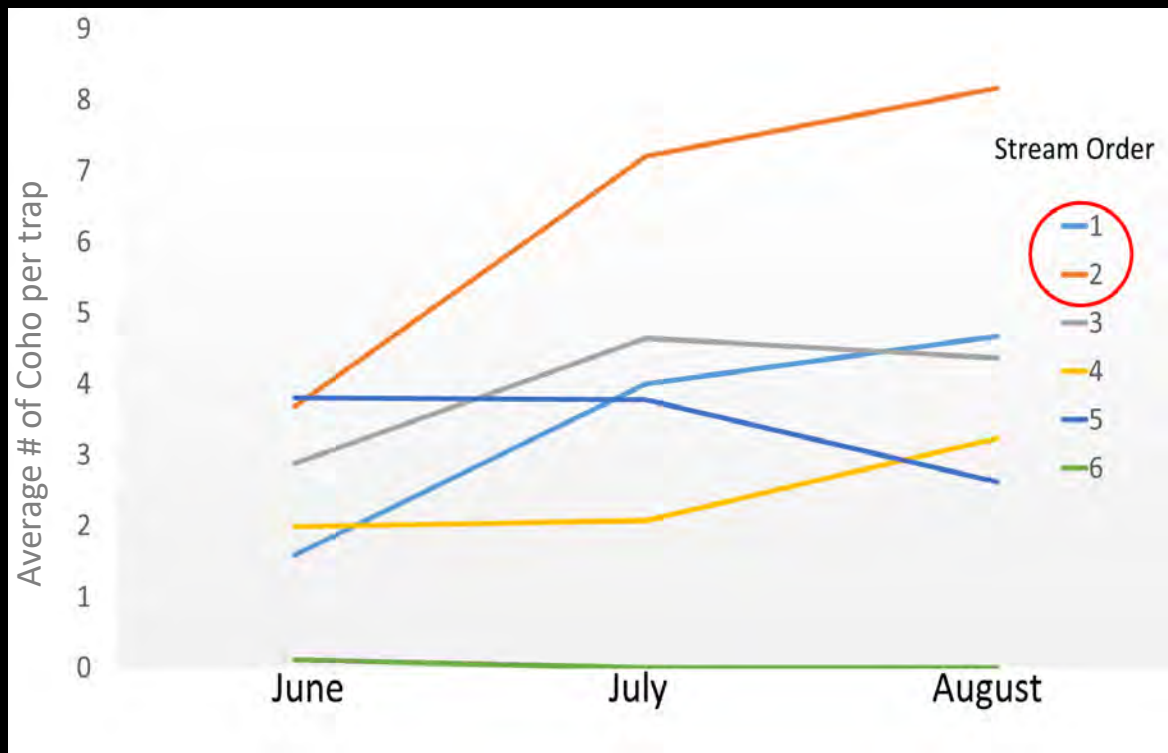
June July August

Stream Order



 [IMG\\_0005.mov](#)  
10 MB





## In Conclusion

- Chinook catch decreased after mid july
- Coho moved into smaller streams and stayed there
- It was a weird year
- Things were hot, hot ,hot
- Temperature played a large roll



# Future Research

- Where did the Chinook go?
- Distribution across time
- Continuing model work



# Questions?



# Acknowledgements

Field Crew: Maggie Hansen-Ellithorpe, Zach Crum, John Hermus

ADFG Partners: Nick Decovich, John Campbell, Daryl Lescanec

Cook Inlet Keeper Partners: Sue Mauger

