

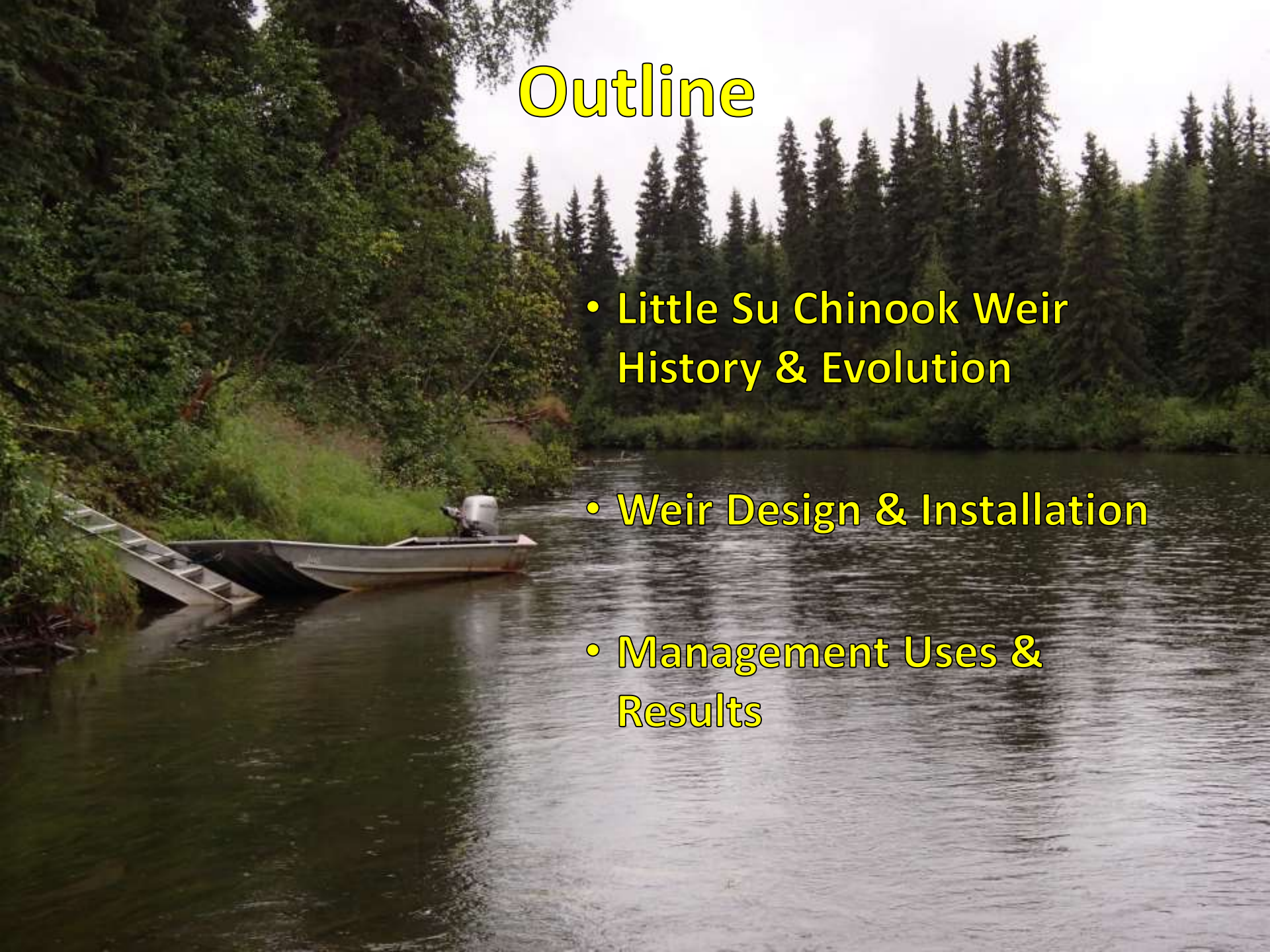
# Operation of a Resistance Board Weir for Counting Chinook Salmon on the Little Susitna River

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of Fish and Game*

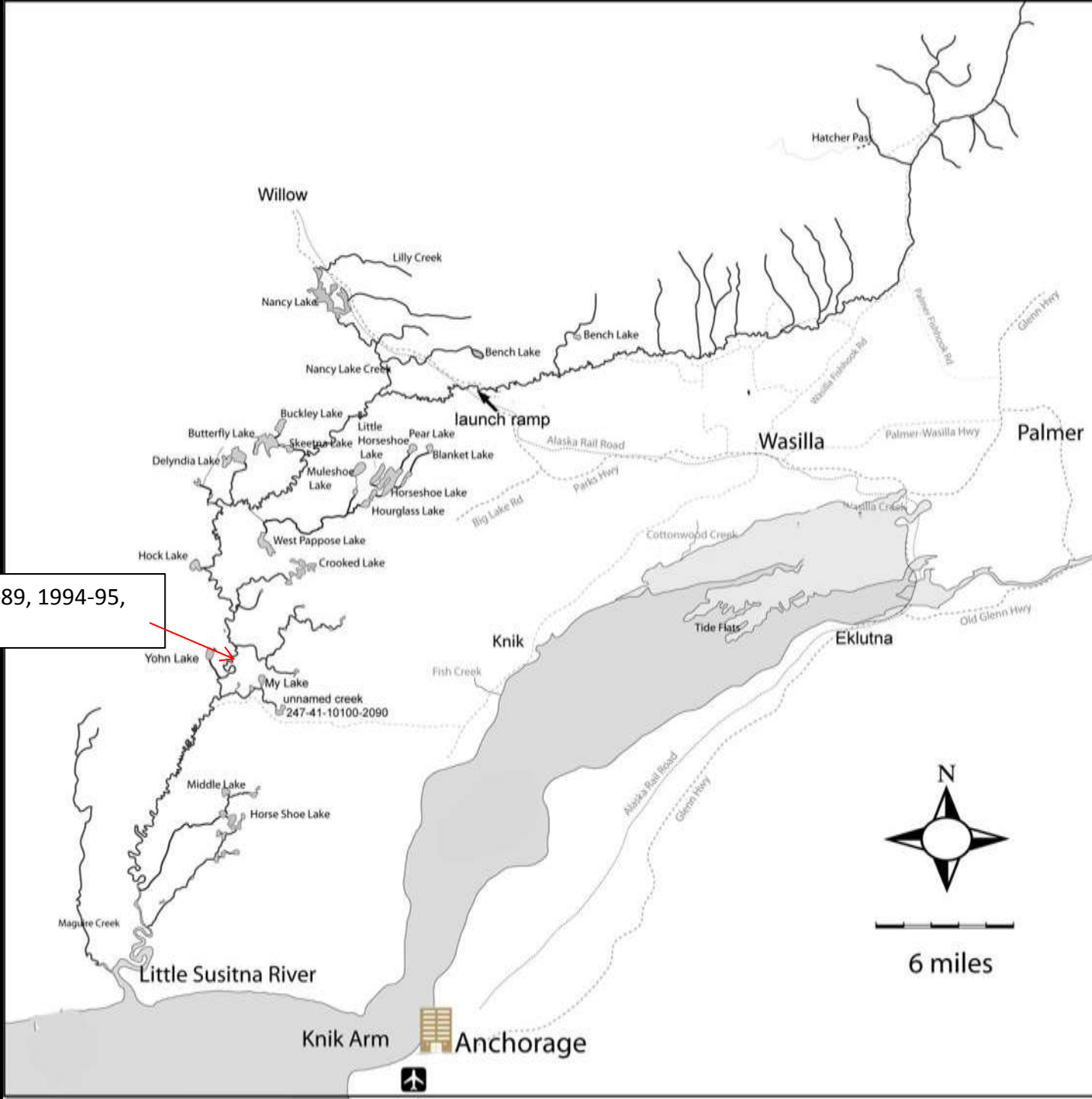


# Outline

- Little Su Chinook Weir History & Evolution
- Weir Design & Installation
- Management Uses & Results



Weir site 1988-89, 1994-95,  
2013-14



1986-87  
River Mile  
34.5



Boy I sure ain't  
too pumped  
about these  
sand bags...





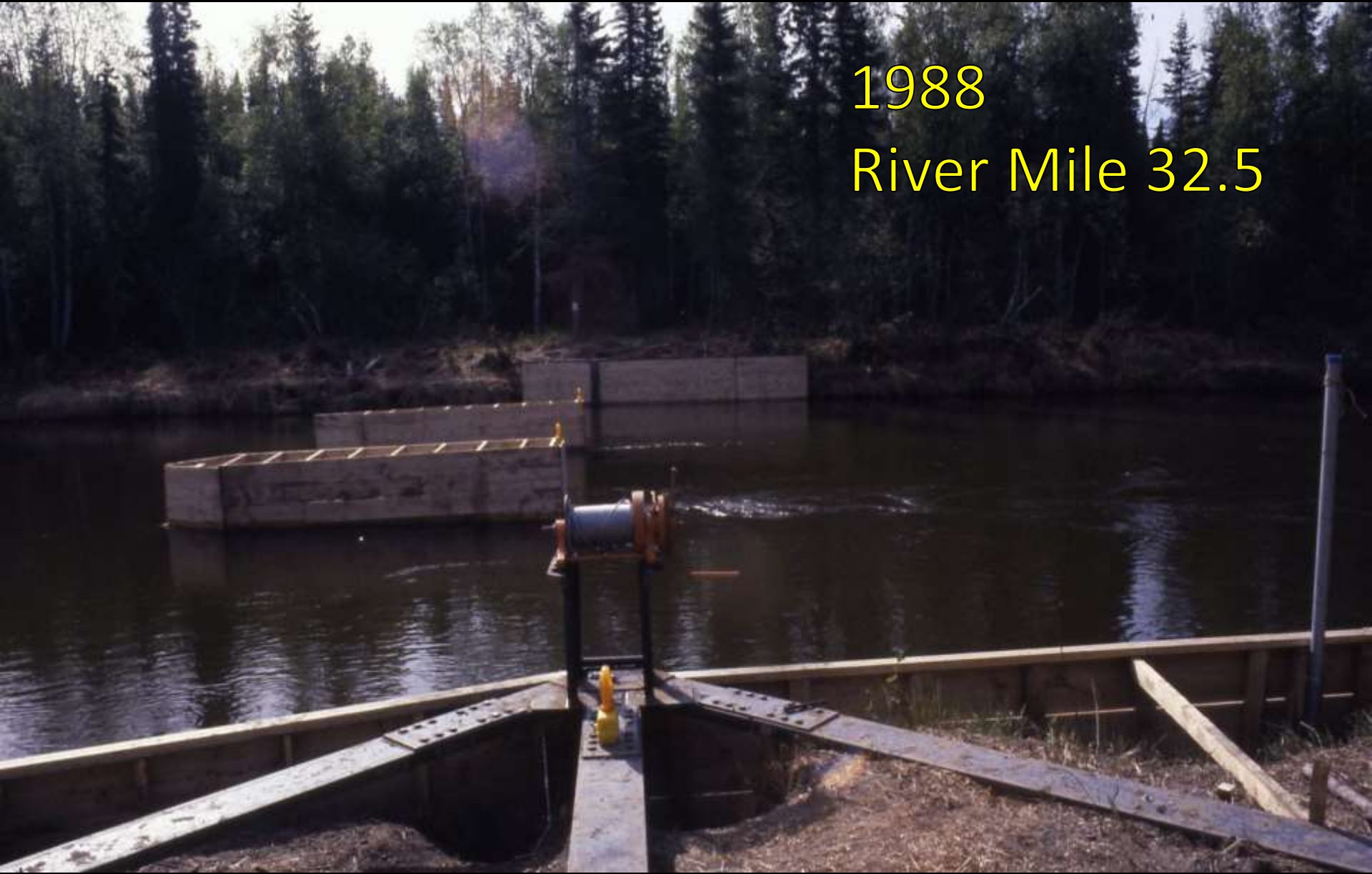






1988

River Mile 32.5

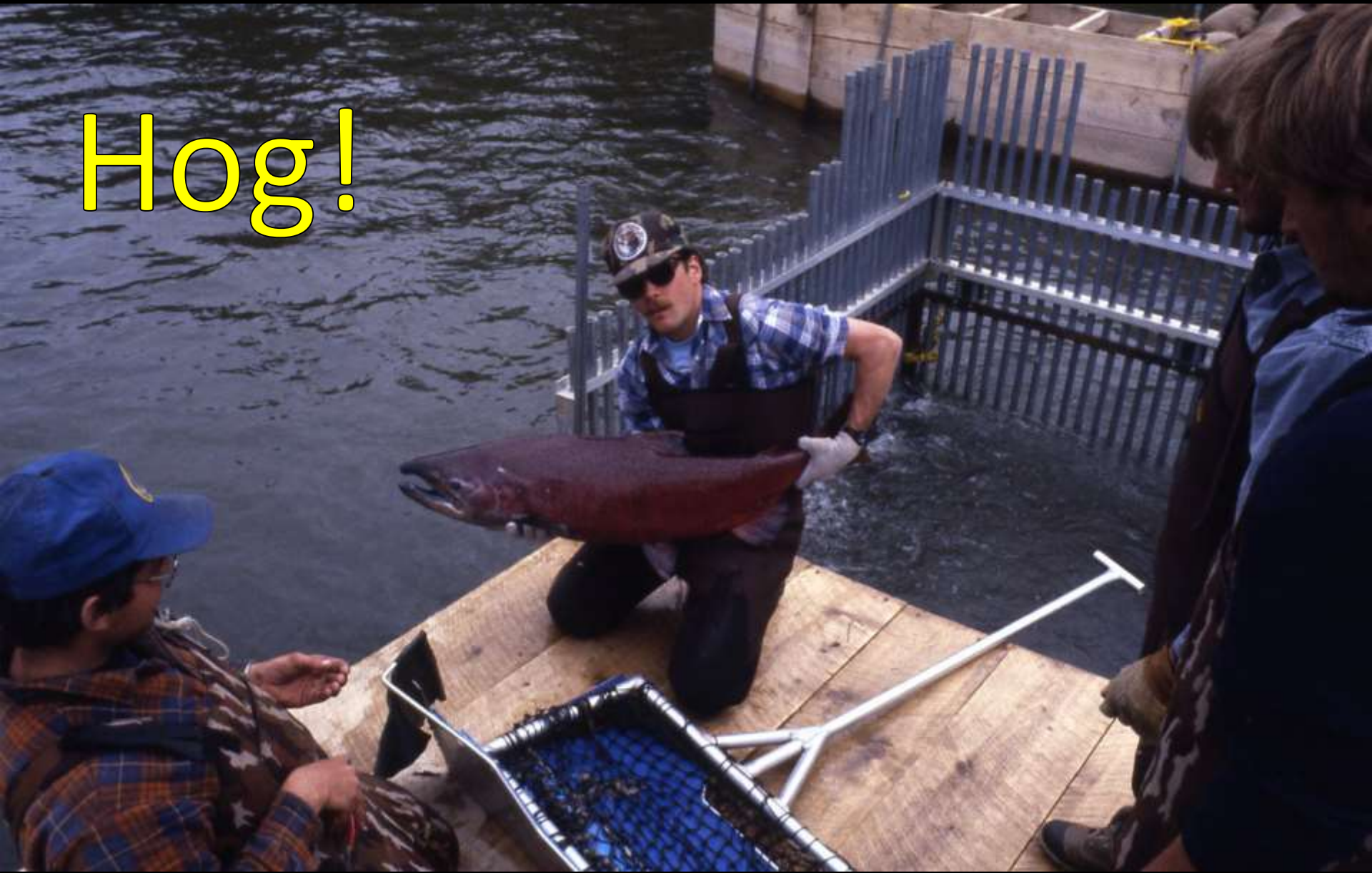








Hog!



# Building a Resistance Board Weir







INTERTHOR















**BRUTE**  
Rubbermaid  
Commercial Products











# Completed Weir Panels



# Installation



Red Bull  
Don



# Heavy Duty Rail













05/08/2014



05/18/2013



05/18/2013



1/2 " Aluminum  
Connector Rod





Cage, Wings, and Panels

05/08/2014



05/27/2014



05/08/2014





05/08/2014



**Resistor Board Set**





05/27/2014





FISH!





# Challenges



05/20/2014











# Management Uses

- Weir allows for immediate inseason management of the fishery.
- Weir counts represent the actual escapement.
- Successful operation of a weir over a number of seasons could lead to the development of the spawner-recruitment relationship and a weir-based sustainable escapement goal (SEG) over time.

# Results

	River Mile 32.5 Chinook Counts					
Year	1988	1989	1994	1995	2013	2014
Weir Count	7,712	4,367	2,981	2,893	2,383	3,135
Aerial Index	3,197	N/A	1,221	1,714	1,651	1,759
% Index	41%	N/A	41%	59%	69%	56%

# Questions?



Is that a  
chicken  
wing?