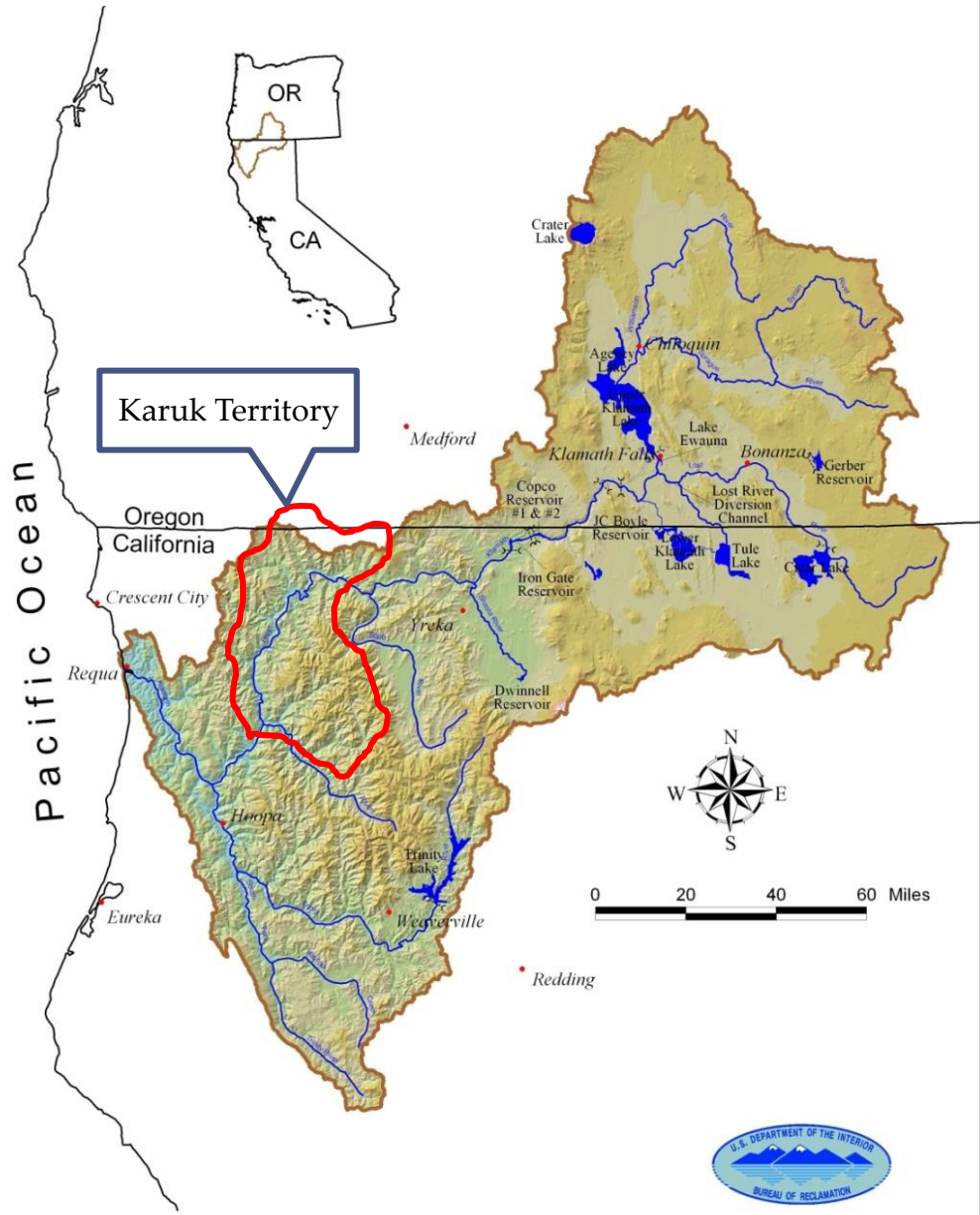


# Solving the Salmon Crisis

Leaf G. Hillman  
Director  
Dept. of Natural Resources  
Karuk Tribe



# Klamath River Basin



# Native People Have Lived in the Basin since Time Immemorial



And continue traditional practices today



# Cultural Impacts

- Ceremonies are at-risk
- Inability to pass down traditions such as fishing
- Sacred sites destroyed or polluted
- Denied access to traditional foods and medicines



# Health Impacts

Traditionally, average Karuk consumed 1.2 pounds of fish per day. Today fish consumption is estimated to be less than 5 pounds per person per year. Consequences of this loss of a traditional diet:

- The rate of heart disease for the Karuk Tribe is 39.6%, three times the U.S. average.
- The diabetes rate for the Karuk Tribe is 21%, nearly four times the U.S. average



See: *Affects of Altered Diet on the Health of the Karuk People*, Kari Norgaard, 2005.

# Economic Impacts

- Denied access to Traditional foods mean:
  - Increased food costs
  - Increased healthcare costs
- Loss of fisheries means lost tourist revenues
  - Each fish caught by a recreational fishermen is worth \$200 to the local economy



# Flirting with Extinction

	<b>Shasta</b>		<b>Scott</b>	
	<b>Coho</b>	<b>Chinook</b>	<b>Coho</b>	<b>Chinook</b>
2011	62	11,388	355	5521
2012	115	29,544	201	9352
2013	163	8,021	2752	4624
2014	46	18,357	485	12470
2015	45	6,745	212	2113
2016	50	2,889	226	1515


In 1932, Snyder reported 80,000 spawners in the Shasta River





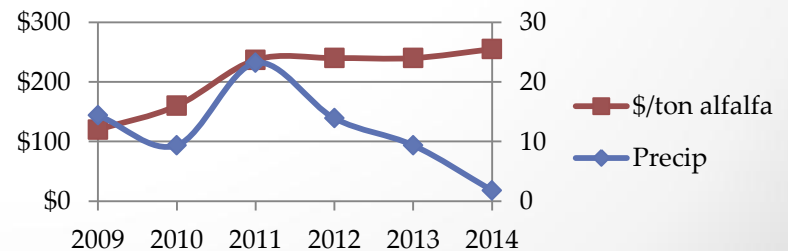
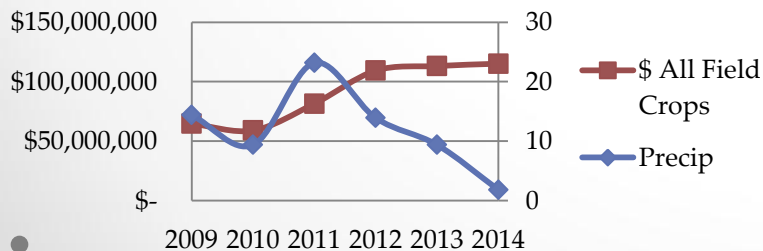
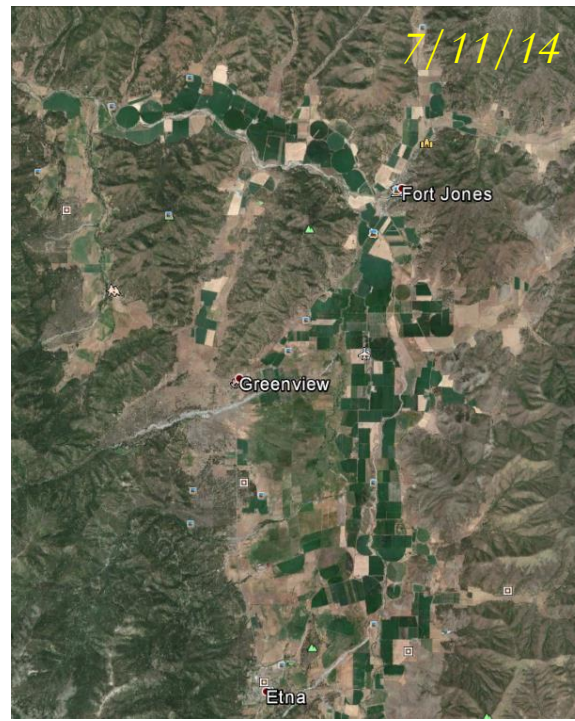
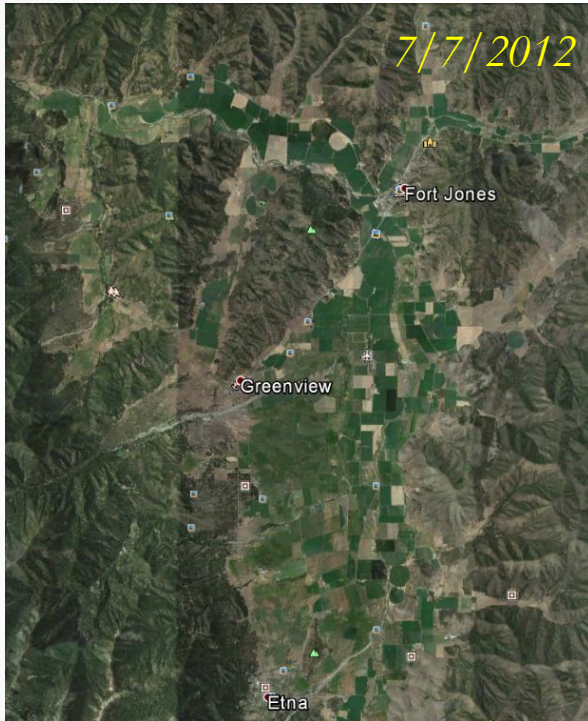
# Enforce DFG Code § 5937

**The owner of any dam shall allow sufficient water at all times to pass through a fishway, or in the absence of a fishway, allow sufficient water to pass over, around or through the dam, to keep in good condition any fish that may be planted or exist below the dam...**



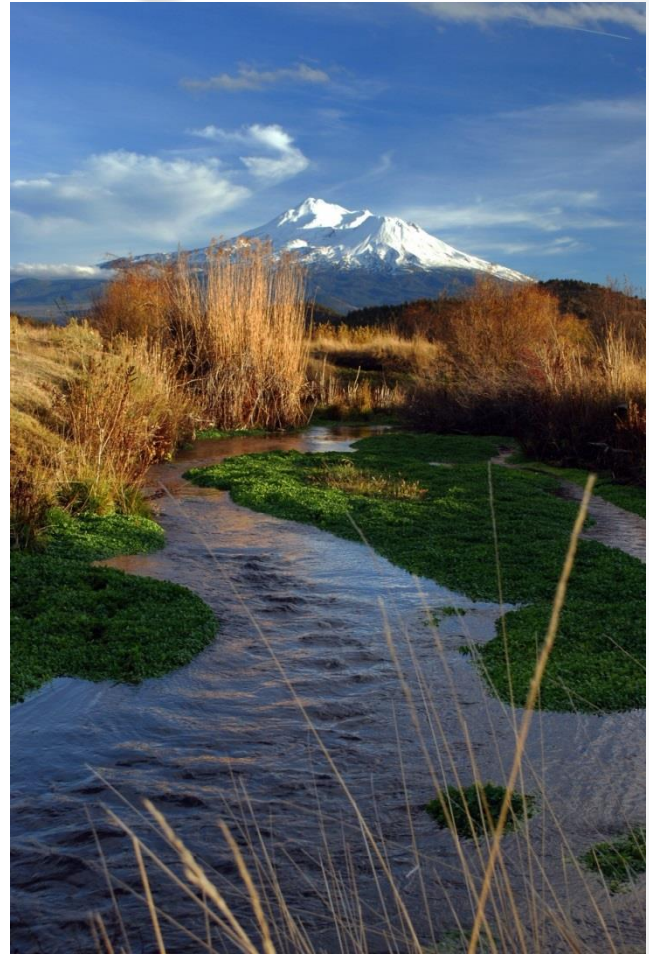


# Re-adjudicate Scott Basin



# Secure Big Springs Ranch

- Some of the best salmon habitat in the Klamath Basin
- TNC owns but plans to manage as working ranch
- Should be managed as a refuge





# Permanently Ban Suction Dredge Mining



# For more information



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