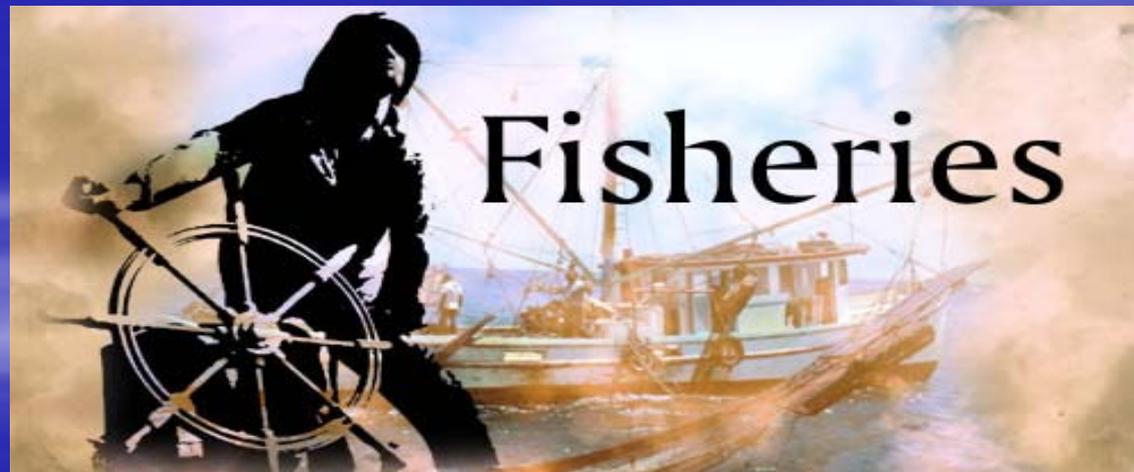




Dick Butler, Supervisor
North Central Coast Office
Protected Resources Division



MISSION

- **Stewardship of living marine resources through science-based conservation and management and the promotion of healthy ecosystems**

Central California Coho Salmon Planning for Recovery: Preventing Extinction



"Near final data from across the range of coho salmon on the coast of California reveal there was a 72% decline in returning adults in 2007/08 compared to the same cohort in 2004/05."

McFarlane and Hayes 2008, in draft

Smolt in San Vicente Creek, Santa Cruz County, June 2006









Preliminary Findings for CCC Coho Salmon

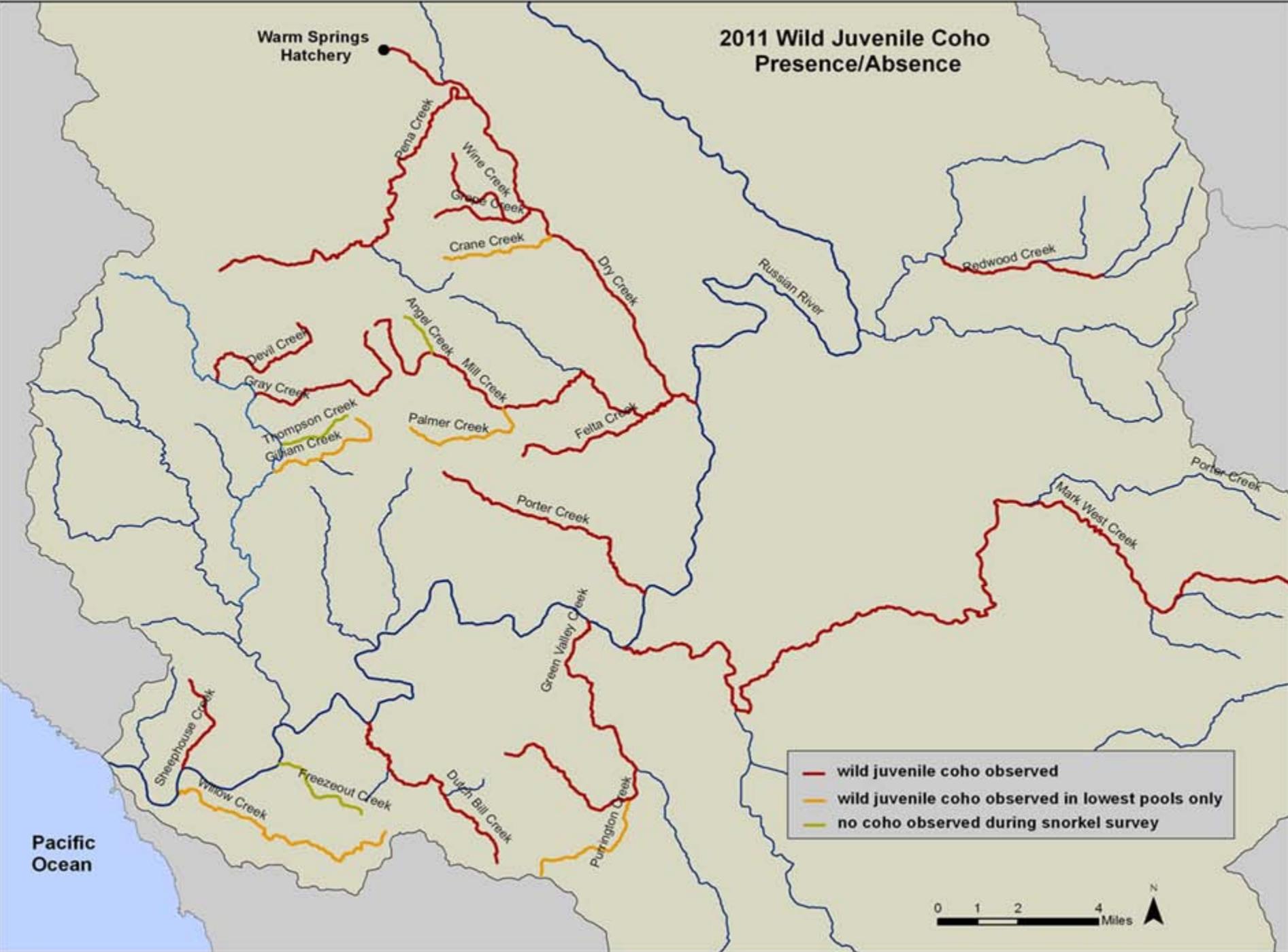
Top 5 Ranked Future Threats

- Roads
- Logging and Wood Harvesting
- Channel Modification
- Water Diversion and Impoundment
- Climate Change



2011 Wild Juvenile Coho Presence/Absence

Warm Springs Hatchery



- wild juvenile coho observed
- wild juvenile coho observed in lowest pools only
- no coho observed during snorkel survey

Pacific Ocean



Coho Production 2004-2011

Juvenile releases and minimum adult returns aligned by cohort.

