

Fisheries Technical Feedback Group Meeting Sacramento, Ca Fall-run Captive Rearing Study

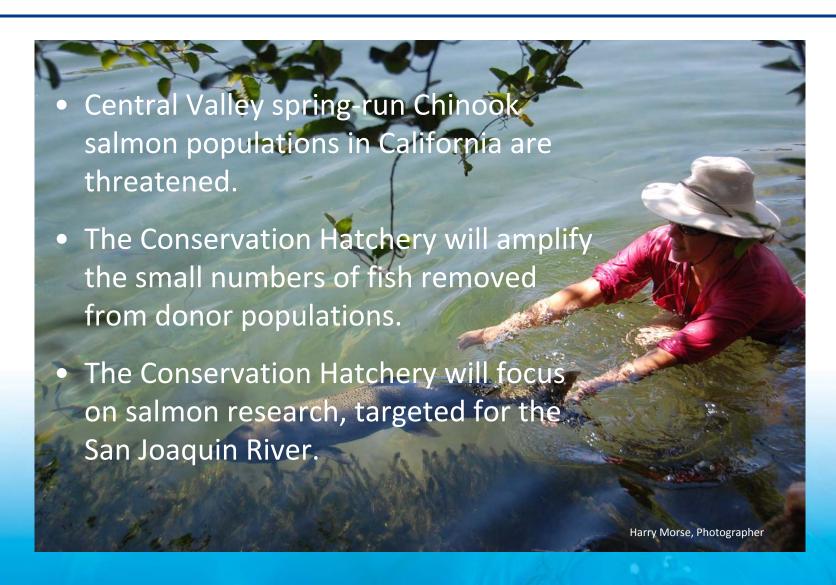
Paul Adelizi

California Department of Fish and Game

November 2, 2012

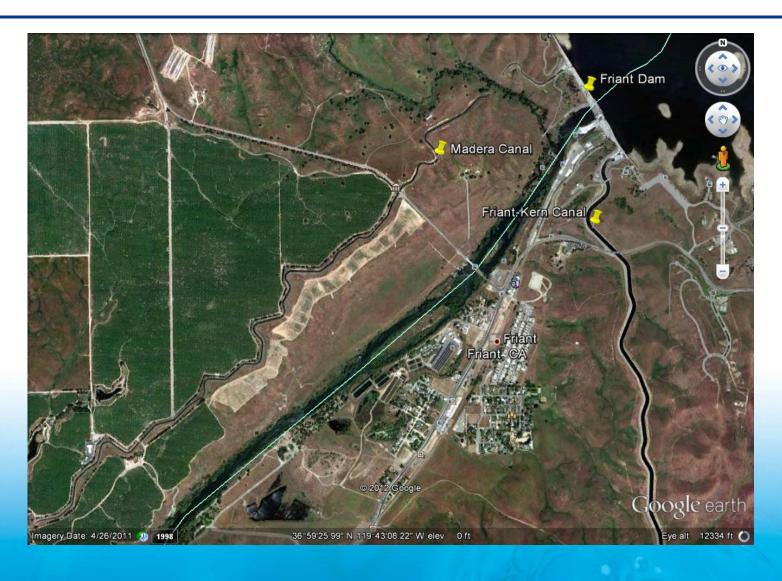


Why a Conservation Hatchery?





Proposed Location



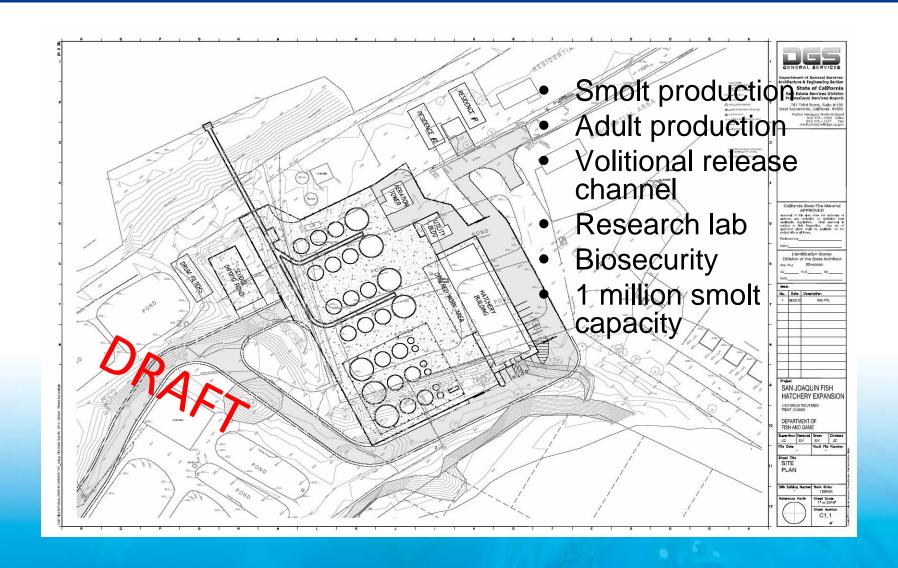


Proposed Location





Preliminary Drawings





Program Focus

 Balancing science and nature in effort to create a naturally reproducing and selfsustaining population.

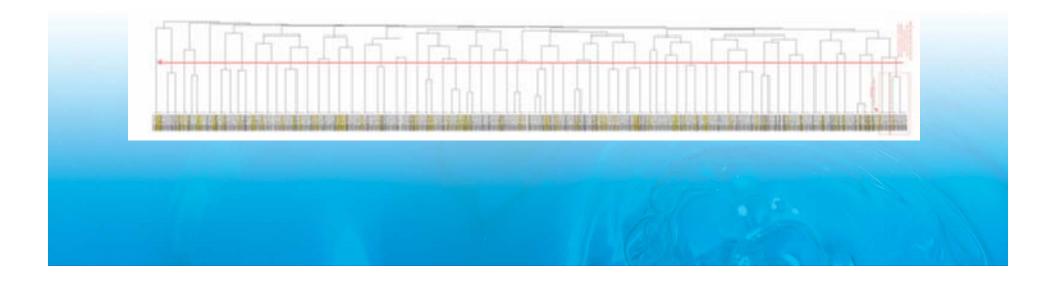






Program Focus - Genetics

- Genetic Diversity
 - Start with diverse population
 - Mate unrelated individuals
 - Use modern genetic tools (SNPs)
 - Track individuals





Tracking Individuals

- Passive Integrated Transponders
- Photo Recognition
- Visual Implant Tags







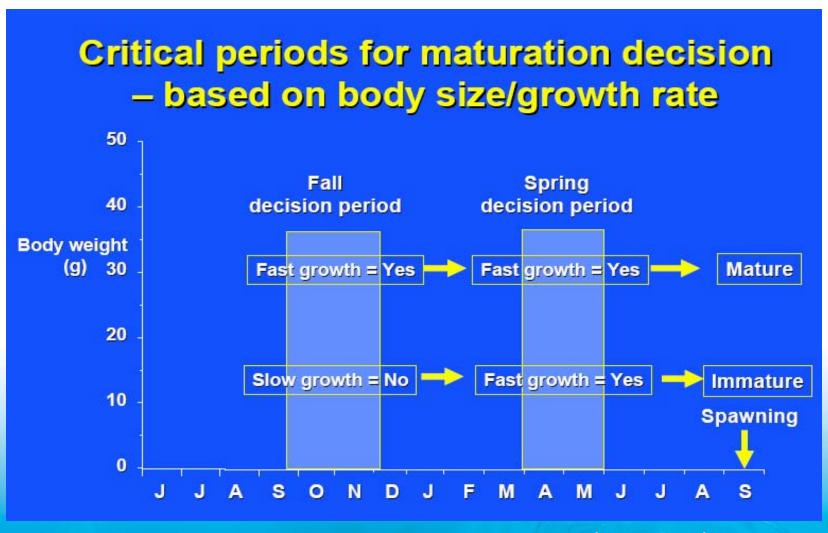


Modulating Growth Rates





Controlling Maturation



Larsen et al. NOAA Fisheries



Cryopreservation







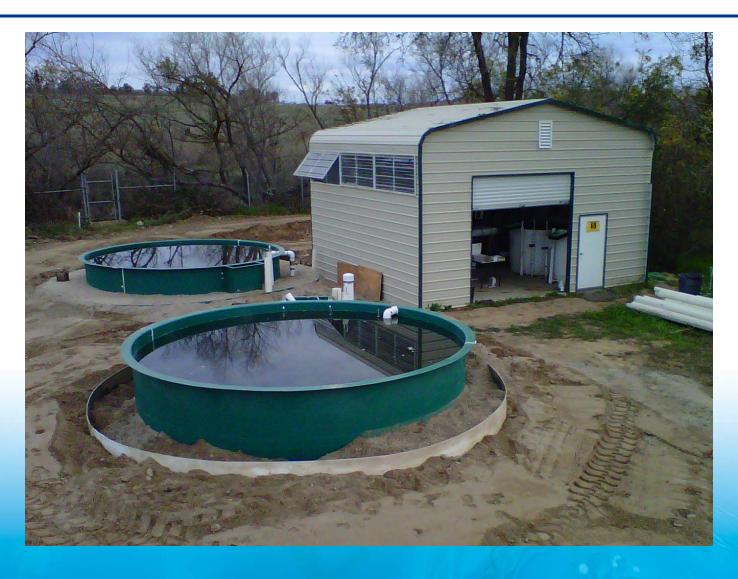


Natural Feeds, etc.





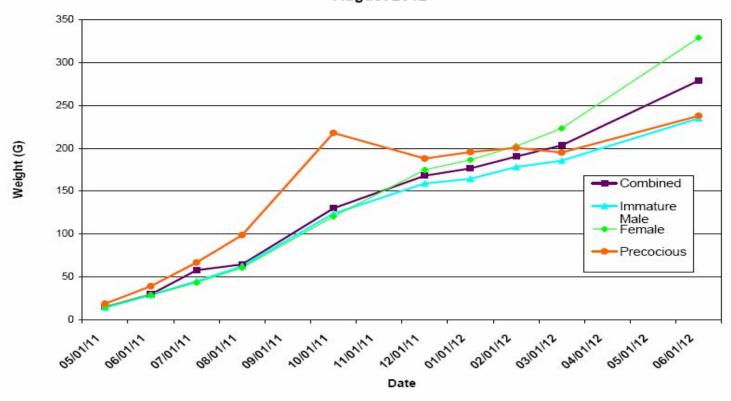
Pilot-scale Research Area





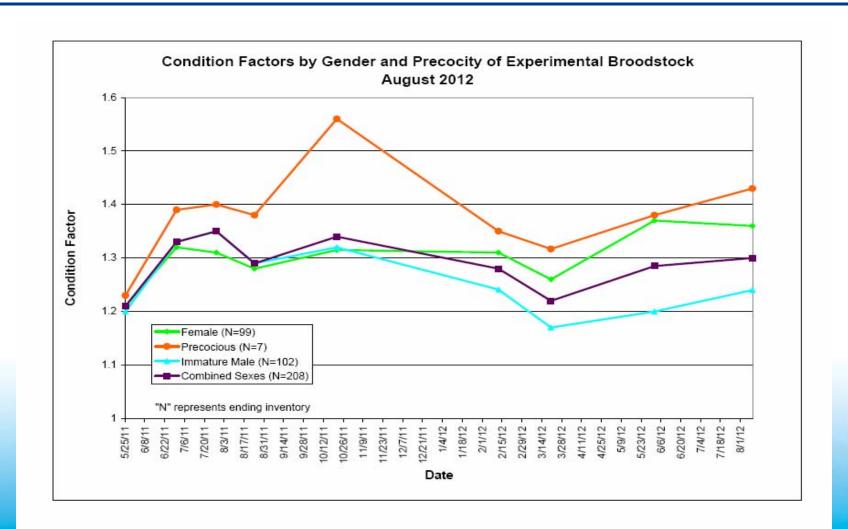
Controlling Growth Rates

Average Weight by Gender and Precocity of Experimental Broodstock August 2012





Controlling Growth Rates

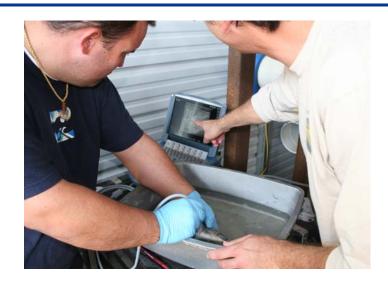




Other Research Activities

- Telemetry Studies
- Egg Survival Studies
- Streamside Incubation
- Complex Rearing Environments









2012 Telemetry Study





Feather River Spawn Tracking





Acknowledgements

- US Fish and Wildlife Service
- National Marine Fisheries Service
- NOAA's Southwest Fisheries Science Center
- US Bureau of Reclamation
- UC Davis Genomic Variation Lab