



**– Conserving Our Fisheries –  
– Protecting Our Environment –  
– Supporting Our Farmers and Cities –**

**Paul Souza**

Regional Director

U.S. Fish and Wildlife Service

California and Great Basin

# Our Shared Goals

We will conserve our fisheries and natural resources and find flexibility for water supply when compatible with environmental protection

- *Driven by Science*



# Improving Water Management in California

## *Significant Changes to Conserve Fisheries*

- More Cold Water at Lake Shasta to Support Winter Run Chinook Spawning with Rigorous Scientific Oversight
- Smarter Delta Operations through Real Time Management
- Commitment to Independent Peer Review and Transparency
- ***Goal: Ensure Operations Are as or More Protective than Ever***



# Improving Water Management in California

## *Significant Changes to Conserve Fisheries*

- **Expand Salmon Distribution -**  
*Accelerate Battle Creek  
Reintroduction - \$14 million*
- **Conservation Hatchery for Delta  
Smelt - \$50 million**
- **Investing in Our Environment -**  
*\$1.5 billion over 10 years*



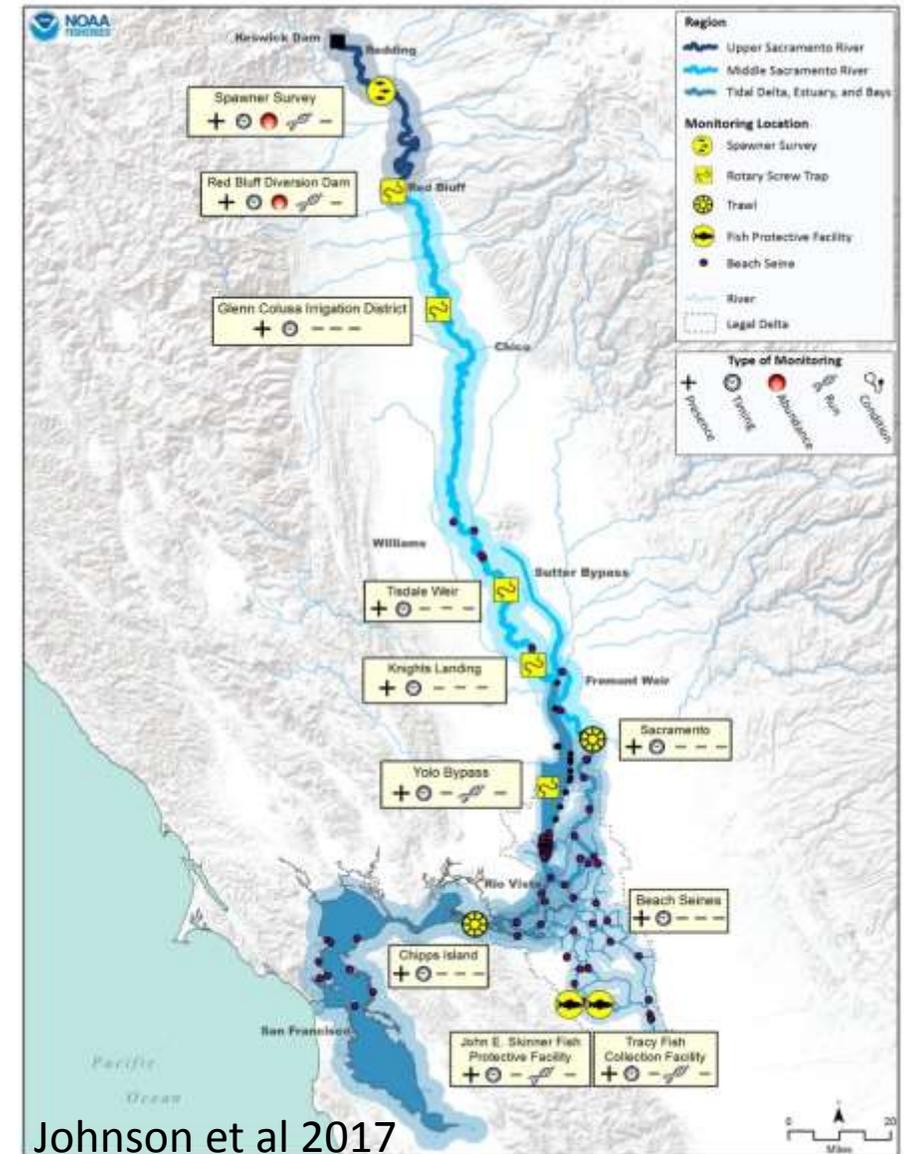
# Using Science for “Real Time Management”

- Not Just Salvage at the Pumps
- *Boats on the Water* - Enhanced Delta Smelt Monitoring Program
- Turbidity Monitoring
- Cold Water Management Plan with Science-Based Performance Measures for Egg-to-Fry Survival and Temperature Management
- New Investments in Steelhead Monitoring



# Using Science for “Real-Time Management”

- **Redd Timing and Location:** Weekly visual surveys to identify new redds by reach
- **Carcass Surveys:** Weekly field surveys to mark-recapture fish and determine proportion that are female
- **Juvenile Abundance and Timing:** Daily effort at Rotary Screw Traps and Trawls
- **Delta Distribution:** Daily effort at beach seines, EDSM trawls, and real-time acoustic tagging
- **Salvage Count:** Measures daily direct effects on listed fish
- **Genetic Identification:** Informs the salvage of listed Chinook salmon species versus non-listed Chinook salmon species



# We Value Our Partnership with the State of California

- The Central Valley Project and State Water Project Work Together
- **Support 25M Californians** - *Our Great Cities like Los Angeles, Some of the Richest Farmland in the World, and the Health of the Environment We Cherish*
- We Stand Ready to Support the State's CEQA and CESA Review
- We Are Encouraged by the Voluntary Settlements and Applaud the State's Leadership



# Thank you!

**Paul Souza**

Regional Director

U.S. Fish and Wildlife Service

2800 Cottage Way, Suite W-2606

Sacramento, CA 95825

916-208-2457

Paul\_Souza@fws.gov

