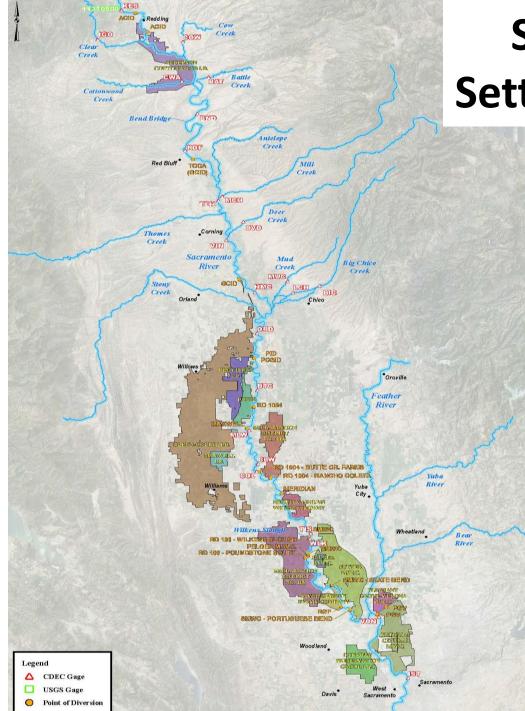
State, Federal Agencies and Sacramento River Settlement Contractors Agree on Framework for Water Operations in Fourth Year of Drought

SWRCB Drought Activities Workshop May 20, 2015

Key Points of Framework

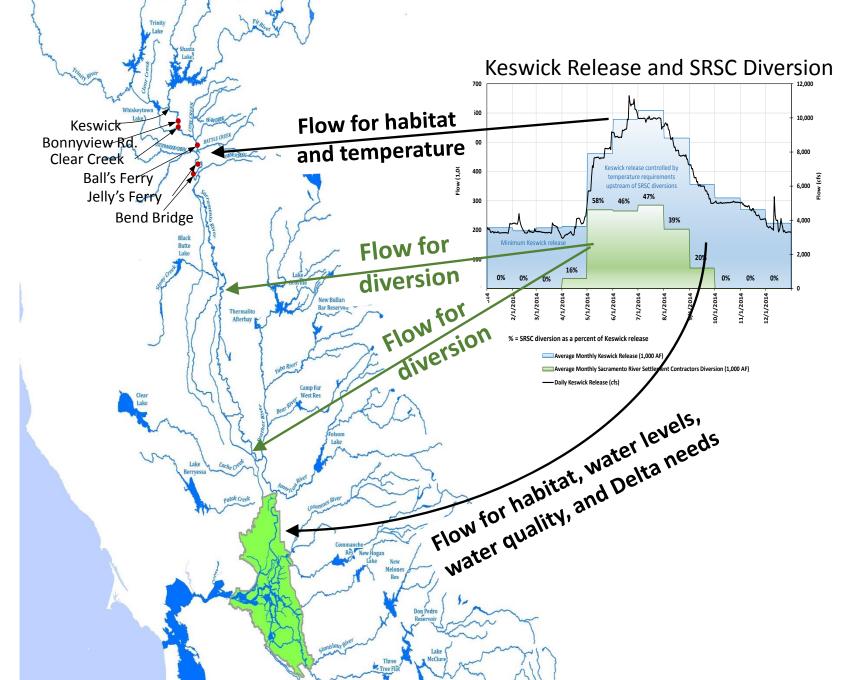
- Upstream temperature management for winter-run salmon
- Sacramento River Settlement Contractors (SRSC) coordinated and capped diversion pattern
- Water transfers in-basin and out-of-basin, coordinated with fall operations and fall run salmon
- Maximizing in-basin land use and habitat benefits for wildlife, including giant garter snake, refuges, and Pacific Flyway
- Using local supplies like groundwater to help limit SRSC diversions
- Coordination with local Refuges on diversion patterns and offsetting demands in April-May
- Coordination with fishery agencies, including assisting with real time monitoring and data evaluation
- KLOG

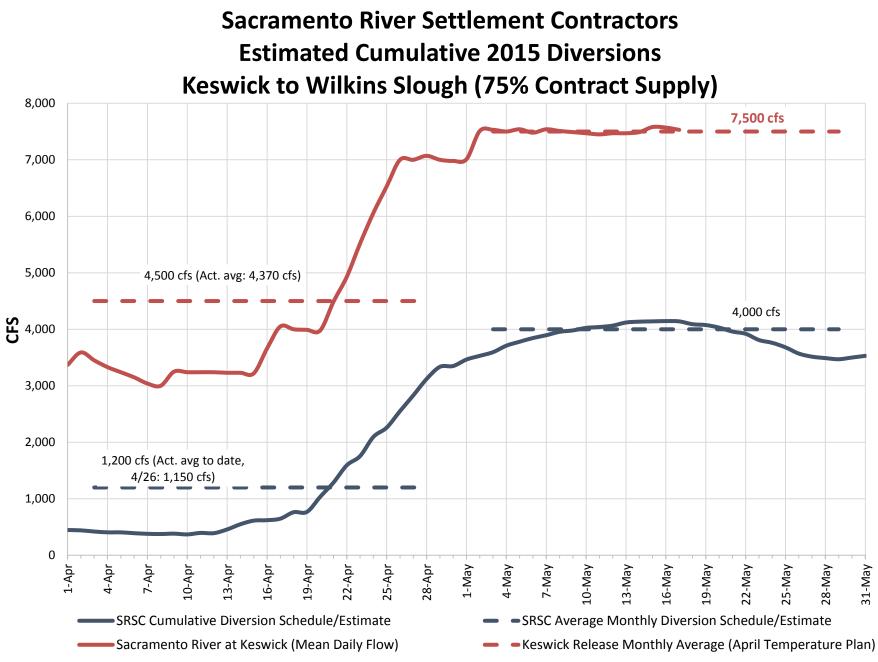




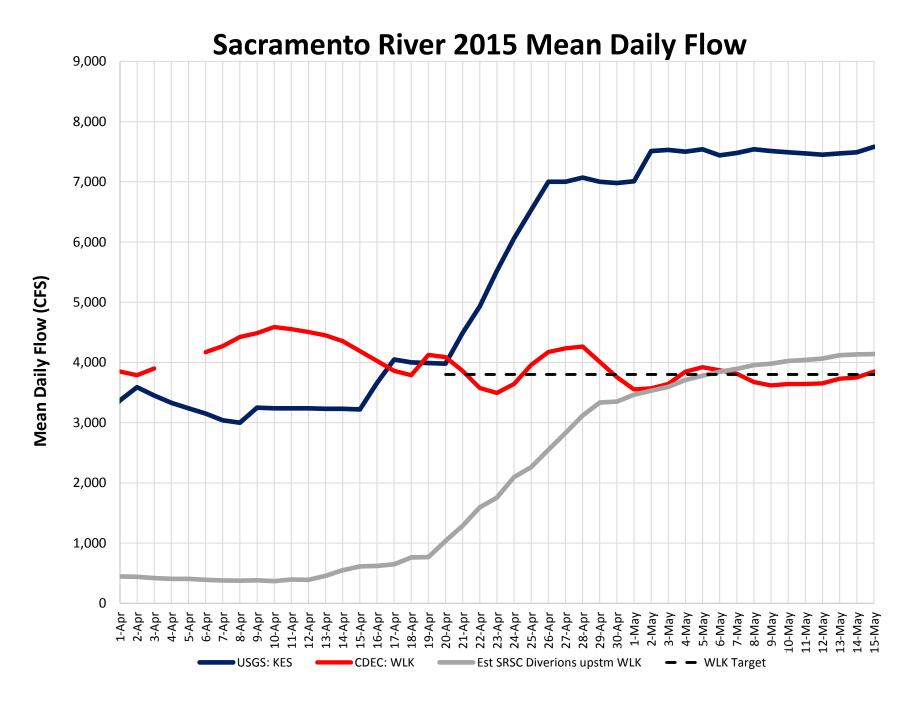
Sacramento River Settlement Contractors

Uses of Sacramento River Flow at Keswick





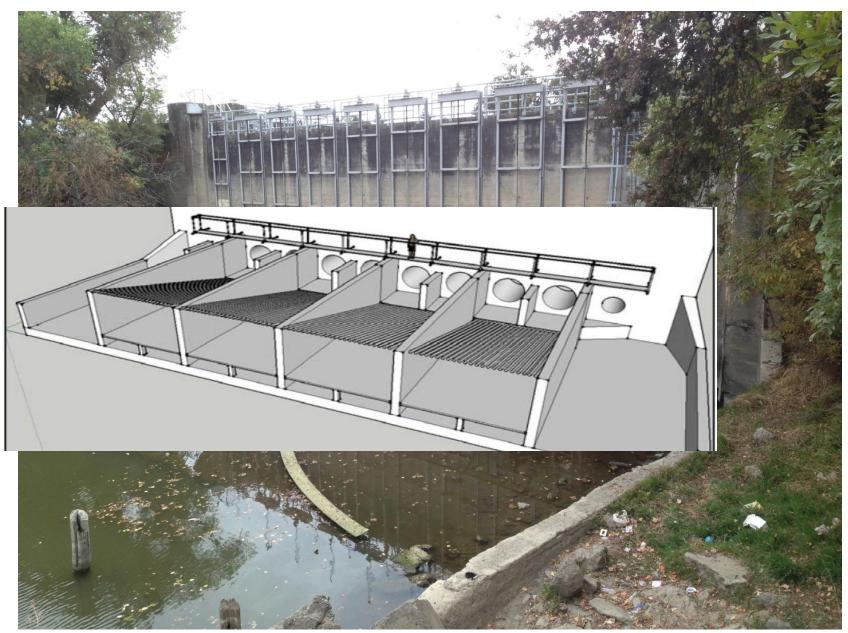
Note: Diversions are based on estimated schedules from the 9 major Sacramento River Settlement Contractors upstream of Wilkins Slough obtained 4/26/15.



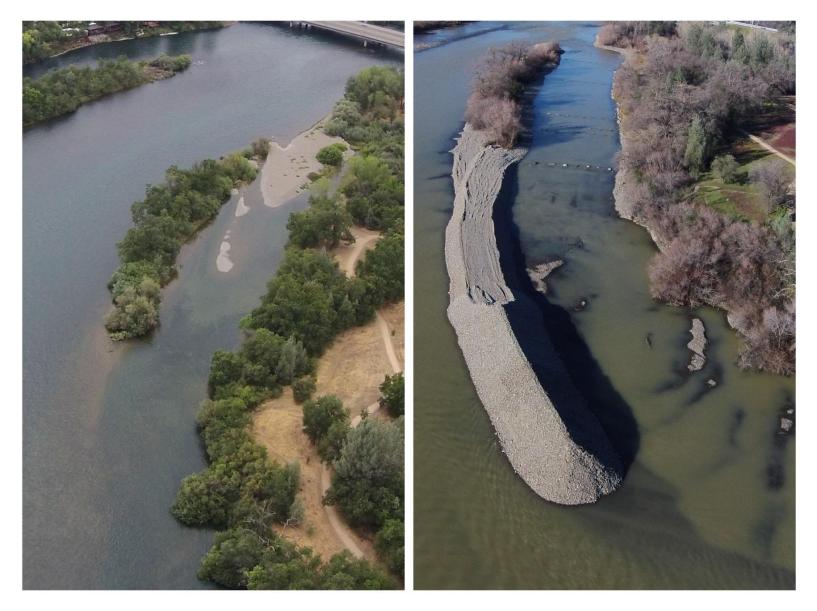
2015 vs. 2014 – What's Better

- Higher Storage in April and May +250,000 AF
- Improved Coordination with Agencies
- SRSC's on even tighter and more restrictive flow pattern
- Increased transfers +100,000 AF carryover through summer
 - Fall Sacramento River stability for fall run salmon spawning
- Real Time/Adaptive Management
 - Power Generation Bypass
 - 1,500 cfs
 - April 16 Present
 - \$30k per day
- Coordination with USBR on Delta operations

KLOG – Knights Landing Outfall Gates

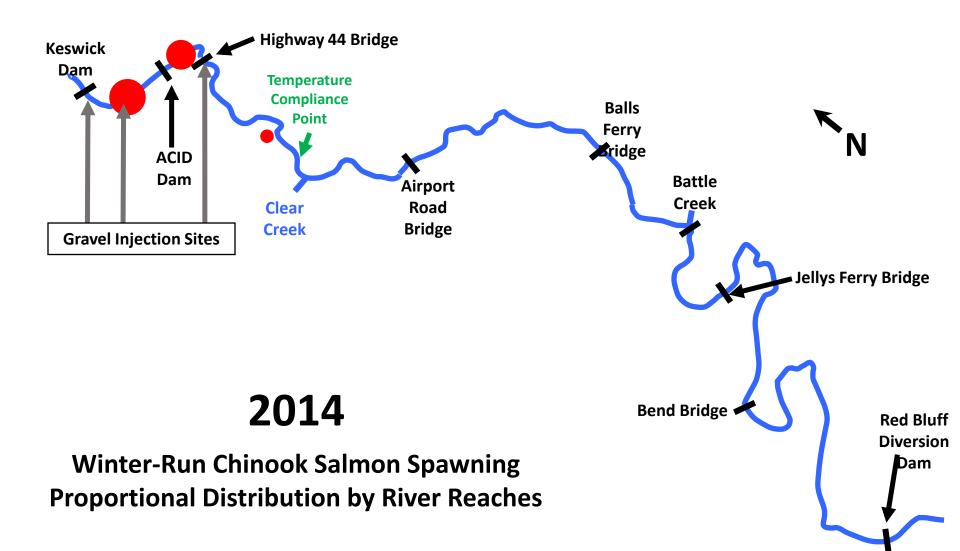


Painters Riffle – Completed in 2014

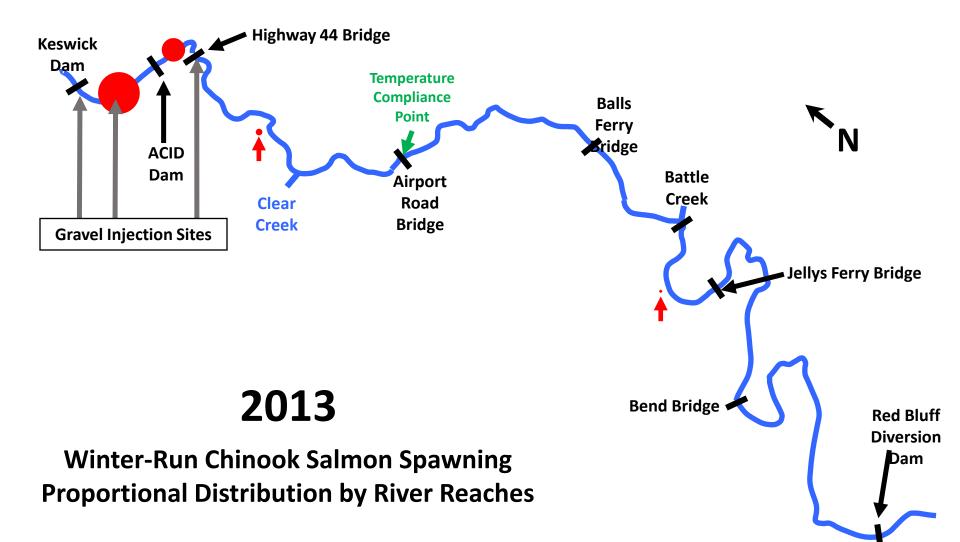


Pre-restoration and post-restoration photos

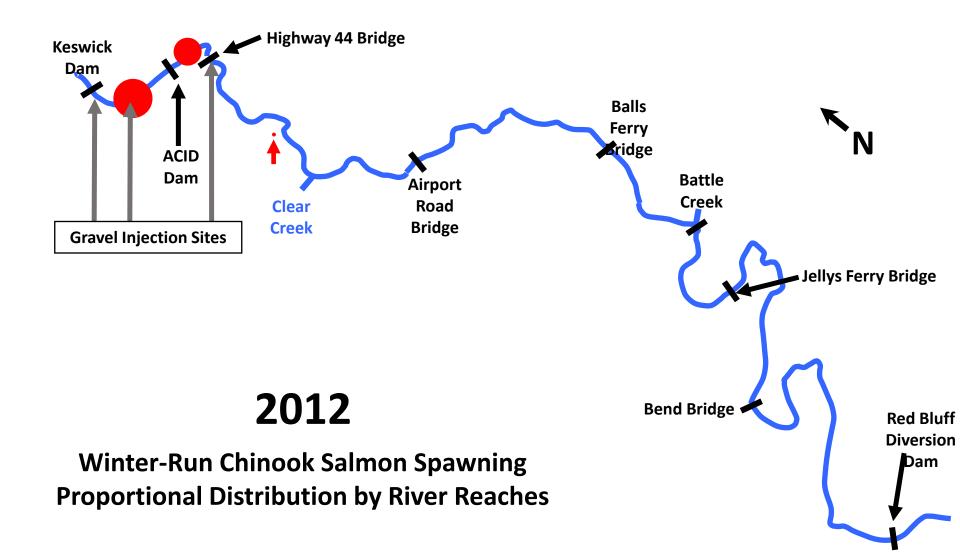
Real Time Winter Run Monitoring



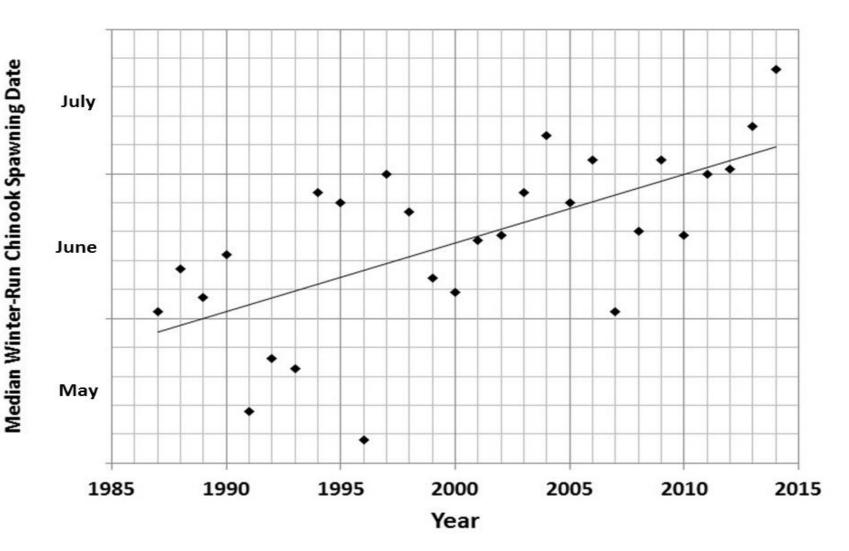
Real Time Winter Run Monitoring



Real Time Winter Run Monitoring



Winter Run Spawning Dates – Work with Agencies on Answers



Looking Forward – Accountability not Failure

- USBR and SRSC's are being and will be accountable to SWRCB and agencies
- Continue to foster partnership with fishery agencies
 - Real time monitoring of temperatures, including additional temporary locations
 - Real time monitoring of spawning locations
 - Further evaluation of fishery data and survival calculations
- Fall operations
 - Improving flow regimes for fall run salmon via transfers
 - Fall habitat flooding for shorebirds and Pacific Flyway