CONSIDERATION OF PROPOSED ORDER ACTING ON PETITIONS FOR RECONSIDERATION OF THE EXECUTIVE DIRECTOR'S 2015 TEMPORARY URGENCY CHANGE PETITION ORDERS FOR THE SWP AND CVP



December 7 Draft Order

- Addresses: petitions for reconsideration, major objections received on Temporary Urgency Change Petition (TUCP) Order and Sacramento River Temperature Plan (TMP)
- Denies in part: petitions on previous approvals and finds that approvals supported based on information available at the time
- Grants in part: petitions and extends the TUCP Order to better respond to future drought

TUCP, Order and Modifications

- January 23, 2015: TUCP submitted by U.S. Bureau of Reclamation (Reclamation) & Department of Water Resources
- February 3, 2015: Executive Director Issued TUCP Order temporarily modifying Decision 1641 requirements for Delta outflows, Delta Cross Channel Gate closures and export limits (fish & wildlife requirements)
- Modified Orders- March 5, April 6, and July 3: Further modified Delta outflows, export limits and included new modifications to San Joaquin River and Rio Vista flows (fish & wildlife requirements) and Western Delta salinity (agricultural requirement)

Required Findings for TUCP

- Urgent need for change
- No injury to other lawful users of water
- No unreasonable effect on fish, wildlife, or other instream beneficial uses
- Change is in the public interest

Protests, Objections and Petitions for Reconsideration

- Ten Petitions for Reconsideration from six petitioners:
 - San Luis & Delta-Mendota Water Authority, Westlands Water District, State Water Contractors
 - Friant Water Authority and members
 - Restore the Delta
 - The Bay Institute (TUCP Orders and TMP)
 - San Joaquin River Exchange Contractors Water Authority, Central California Irrigation District, San Luis Canal Co., Columbia Canal Co. and Firebaugh Canal Water District
 - California Sportfishing Protection Alliance, AquAlliance, and CA Water Impact Network (TUCP Orders and TMP)
- Protests & Objections: Numerous protests and objections to original TUCP Order and subsequent modifications

Grounds for Reconsideration

- Irregularity in proceedings or abuse of discretion preventing fair hearing
- If Order is not supported by substantial evidence
- There is new relevant evidence which could not have been produced
- Error in law

Overarching Comments

- Changes did not constrain operations enough causing unreasonable impacts to fish & wildlife and other uses of water
- Changes constrained operations too much causing unreasonable impacts to water supplies
- Changes did not reasonably balance competing uses
- The need for the changes resulted from lack of drought planning
- Other legal and procedural issues

Conclusions on TUCP Orders

- TUCP Orders supported based on information available at the time
 - Orders supported by biological reviews and concurrence of fish agencies
 - Intended to preserve water in storage for cold water for winter-run and other fish, water supplies and salinity control
 - Conserved +800,000 acre-feet (af) from changes, allowed 1,500 cubic feet per sec exports or more when not meeting requirements

Conclusions on TMP Approval

- TMP approval supported based on information available at the time
 - April 15: original TMP approved based on modeling, more water than in 2014, and assurances from Reclamation, despite less of the coldest water than 2014; approval indicated TMP may need to be updated
 - May 29: Shasta profiles from April & May provided by Reclamation indicating major reduction in cold water
 - July 7: Revised TMP approved attempting to protect winter-run by prolonging cold water supplies, called for lower releases and higher temperatures of 57-58° F
 - Fall 2015: juvenile fish monitoring shows high mortality

Conclusions Regarding Future Drought Measures

- Status quo not reasonable going forward and changes needed to:
 - Prevent continued catastrophic fish declines
 - Provide minimal supplies for health and safety
 - Improve accuracy, timeliness, transparency and accountability for drought decision making in 2016

Status of Fish Species

- Winter-run Chinook: 2014 and likely 2015 runs experienced nearly complete mortality despite larger 2015 run size
- Delta smelt: 2015 lowest summer index and second lowest fall index to date
- Longfin smelt: 2015 lowest fall survey with zero fish caught to date
- Other fish also experienced significant mortality including spring, fall and late fall-run Chinook, steelhead, American shad (lowest fall), threadfin shad (7th lowest fall), and age-0 striped bass (2nd lowest fall)

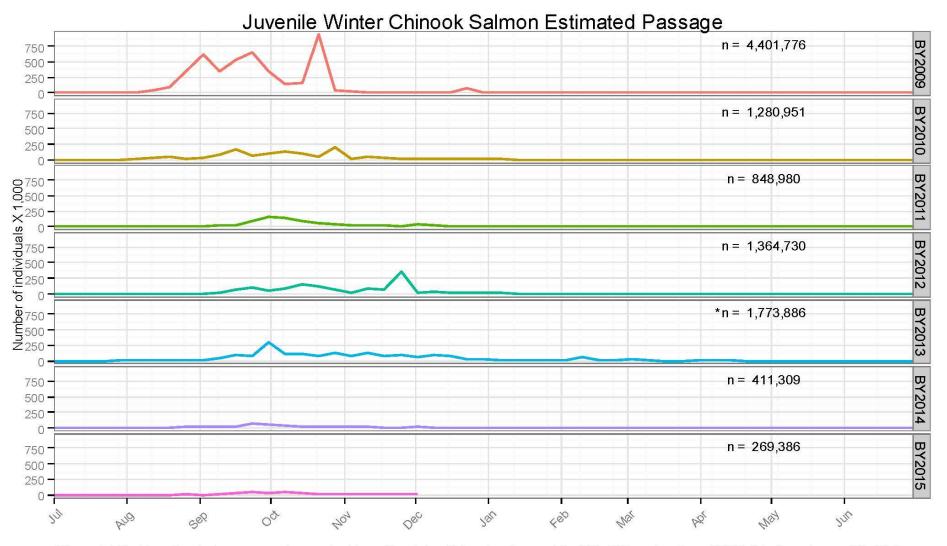


Figure 1. Weekly estimated passage of unmarked juvenile winter Chinook salmon at Red Bluff Diversion Dam (RK391) by brood-year (BY). Fish were sampled using rotary-screw traps for the period July 1, 2009 to present.

*Winter run passage value interpolated using a monthly mean for the period October 1, 2013 - October 17, 2013 due to government shutdown.

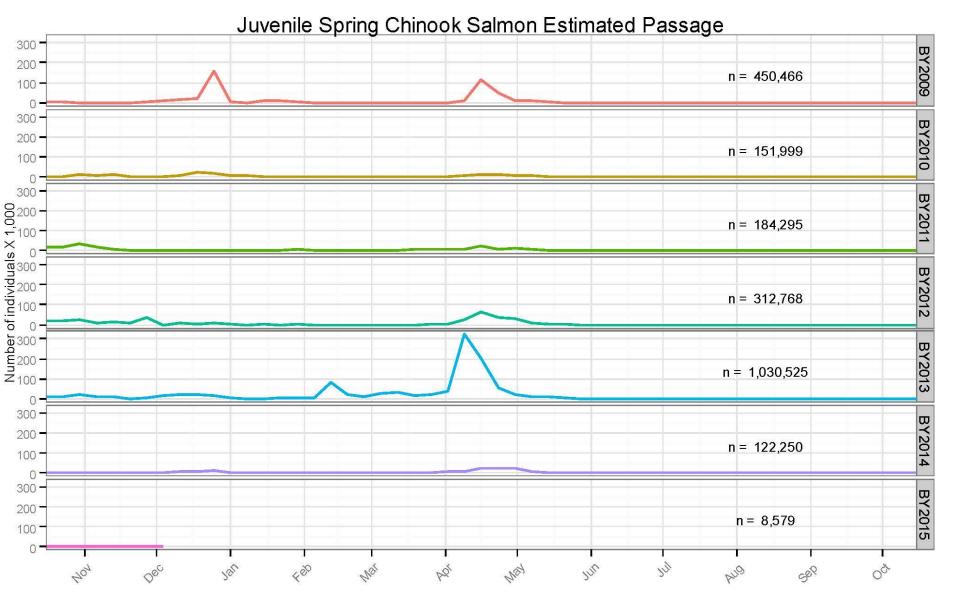


Figure 2. Weekly estimated passage of unmarked juvenile spring Chinook salmon at Red Bluff Diversion Dam (RK391) by brood-year (BY). Fish were sampled using rotary-screw traps for the period October 16, 2009 to present.

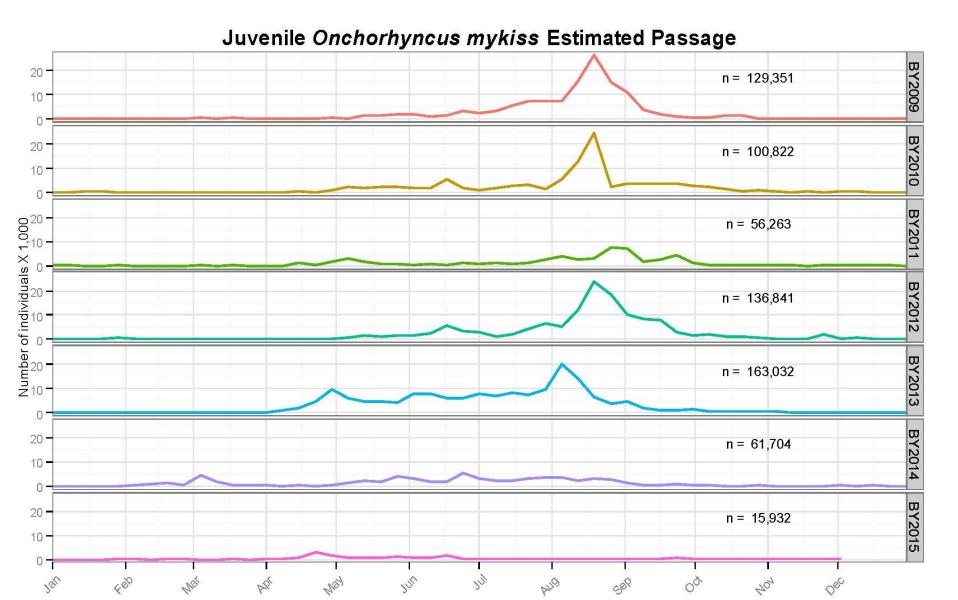


Figure 3. Weekly estimated passage of unmarked juvenile Rainbow/Steelhead trout at Red Bluff Diversion Dam (RK391) by brood-year (BY). Fish were sampled using rotary-screw traps for the period January 1, 2009 to present.

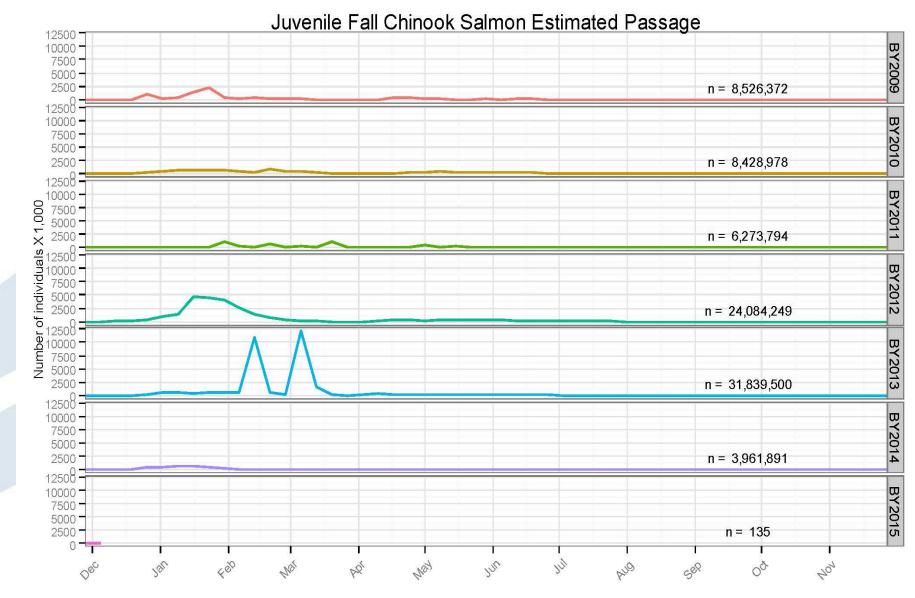


Figure 4. Weekly estimated passage of unmarked juvenile fall Chinook salmon at Red Bluff Diversion Dam (RK391) by brood-year (BY). Fish were sampled using rotary-screw traps for the period December 1, 2009 to present.

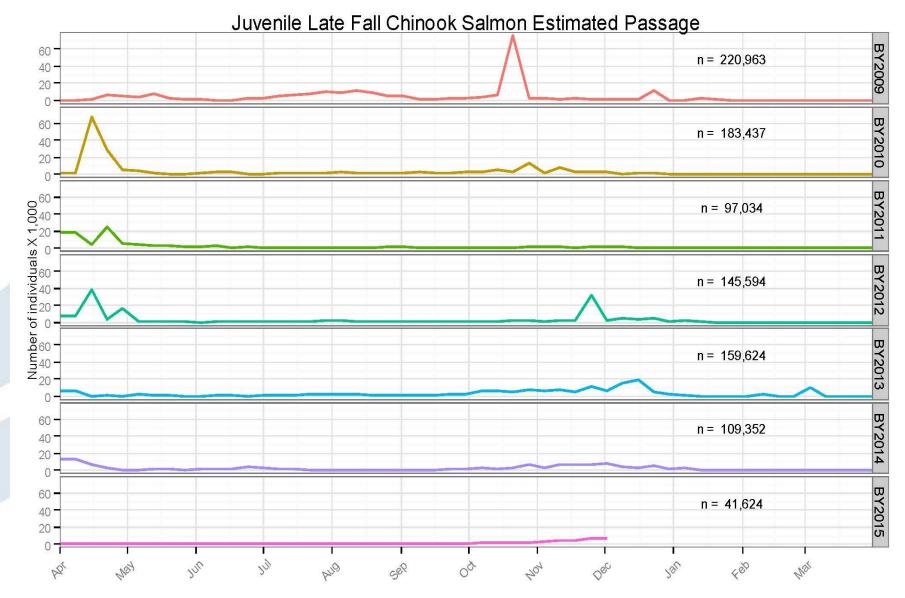


Figure 5. Weekly estimated passage of unmarked juvenile late fall Chinook salmon at Red Bluff Diversion Dam (RK391) by brood-year (BY). Fish were sampled using rotary-screw traps for the period April 1, 2009 to present.

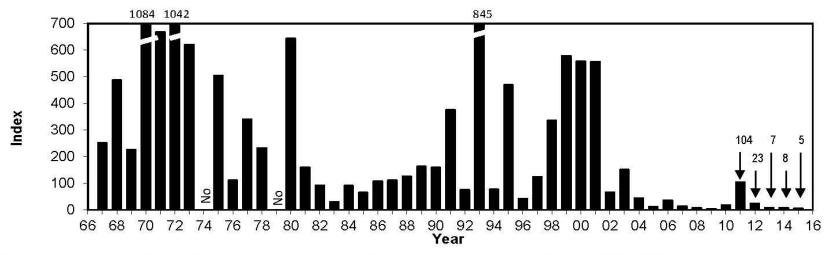


Figure 1. FMWT Delta Smelt September-October abundance indices, 1967-2015.

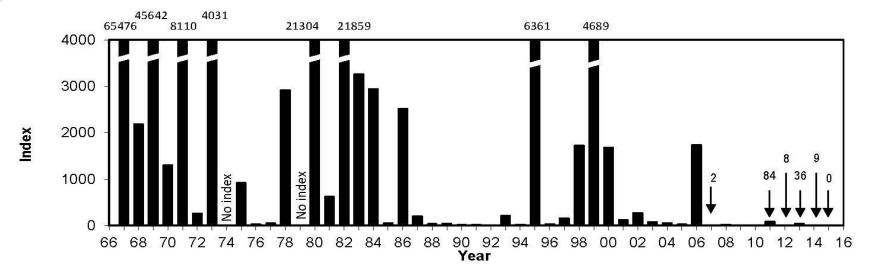


Figure 3. FMWT Longfin Smelt September-October abundance indices, 1967-2015.

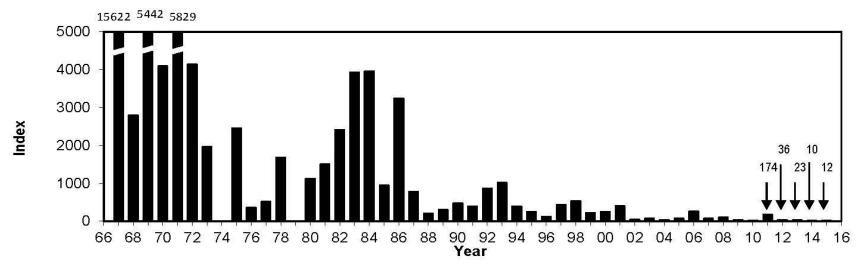


Figure 2. FMWT Age-0 Striped Bass September-October abundance indices, 1967-2015.

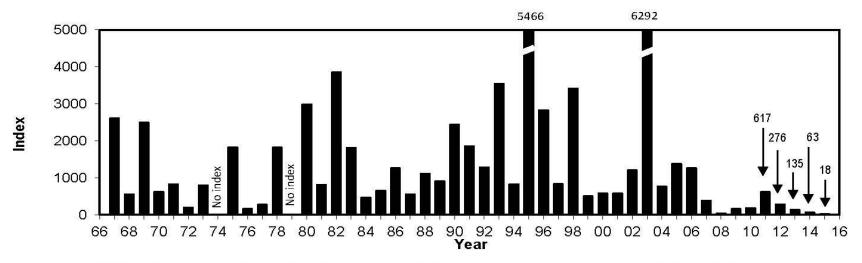
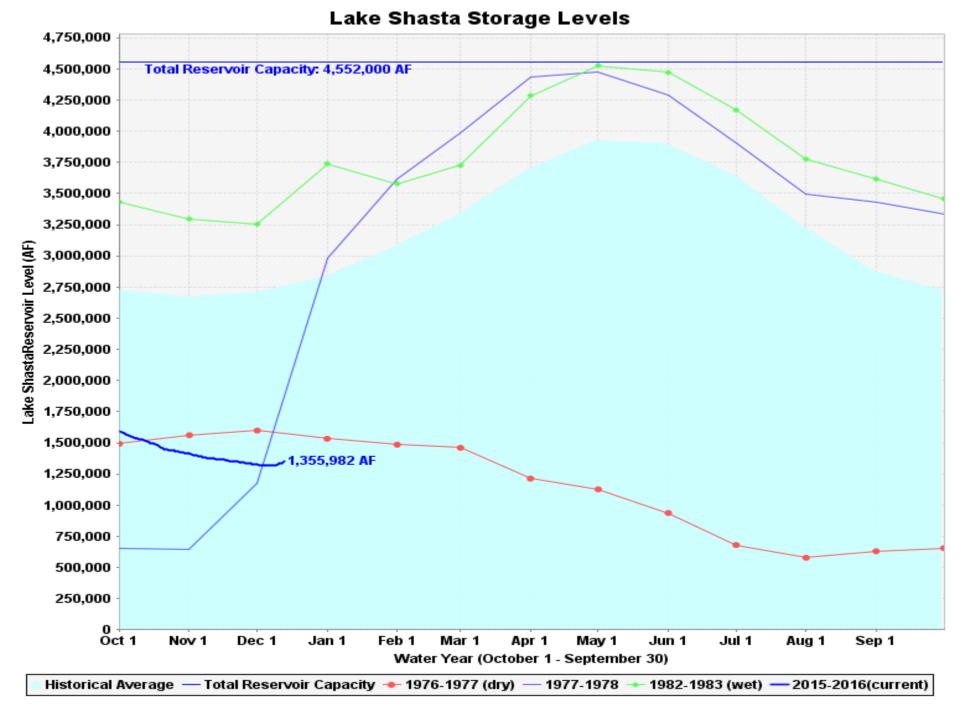


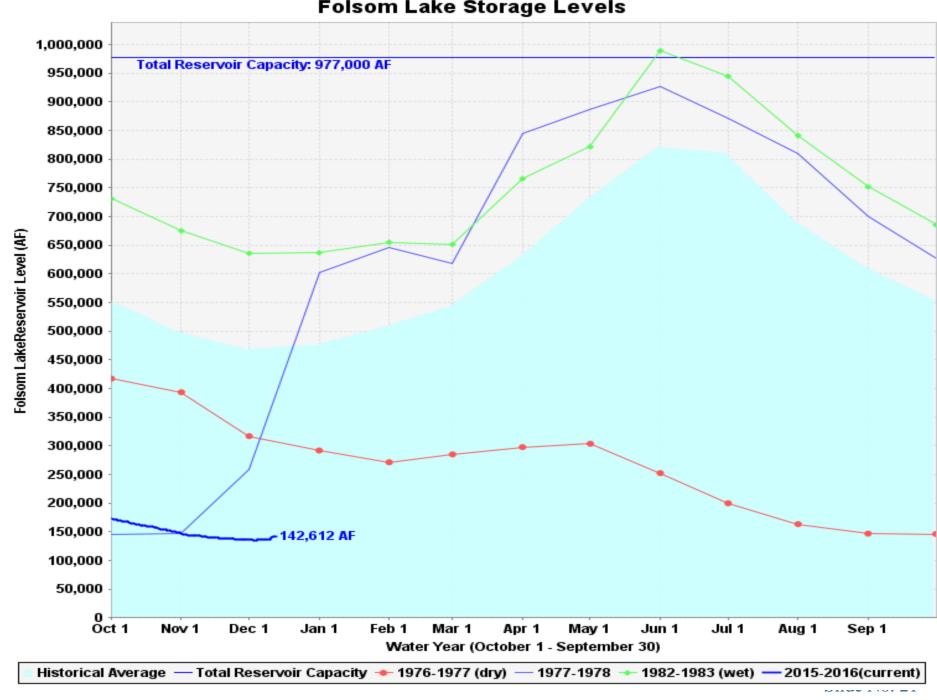
Figure 5. FMWT American Shad September-October abundance indices, 1967-2015.

Storage Conditions

Reservoir Name	12/13/15 Reservoir Storage (AF)	% Capacity	% December Average
Shasta	1,355,982	30%	48%
Oroville	923,895	26%	43%
Folsom	142,612	15%	30%
New Melones	274,240	11%	20%



Folsom Lake Storage Levels



Draft Order Conditions: Drought Contingency Plan

- February-October 2016 plan with margin of safety for fish & wildlife, input from fish agencies, minimum H&S supplies
 - Monthly updates
 - Retrospective of 2014 and 2015
 - Planned flows and storage levels at 50, 90 and 99% hydrologies
 - Monitoring, evaluation and reporting plan

Draft Order Conditions: Sacramento River TMP Issues

- Ensure winter-run protection, no redirected impacts to Trinity, Clear Creek, other runs
 - End October storage: 1.6 million af or alternate measures to ensure protection
 - Consultation, modeling, monitoring, reporting: plan for accurate, timely, transparent, consistent and comparable temperature modeling; reservoir profiles; evaluation of 2015 issues and remedies

Other Draft Order Conditions

- Folsom operations plan to ensure protection of M&I supplies, fish & wildlife
 - End October storage of 200,000 af
- Stanislaus River operations plan to protect fish & wildlife
- Continued consultation with fish agencies and State Water Board

Public Comments on Draft Order

- Anderson Cottonwood I.D.
- The Bay Institute
- Natural Resources Defense Council
- Defenders of Wildlife
- Department of Water Resources
- CA Sportfishing Protection Alliance
- CA Water Impact Network
- AquAlliance
- City of Folsom
- City of Roseville
- San Juan Water District
- Friant Water Authority
- M & T Chico Ranch
- San Joaquin River Exchange Cont.

- Plumas Mutual Water Co.
- Porgans & Ass. Planetary Solutionaries
- Reclamation District No. 1004
- Restore the Delta
- Richvale I.D., Biggs-West Gridley W. D., Butte W.D., and Sutter Extension W.D.
- San Luis & Delta Mendota Water Auth.
- Westlands W.D.
- Sierra Club California
- South Delta Water Agency
- State Water Contractors
- U.S. Bureau of Reclamation
- Western Canal Water District
- Modesto I.D.
- Northern California Water Ass.

Questions?

December 15, 2015