

RECLAMATION

Managing Water in the West

2015 Drought Plan

Shasta Lake and

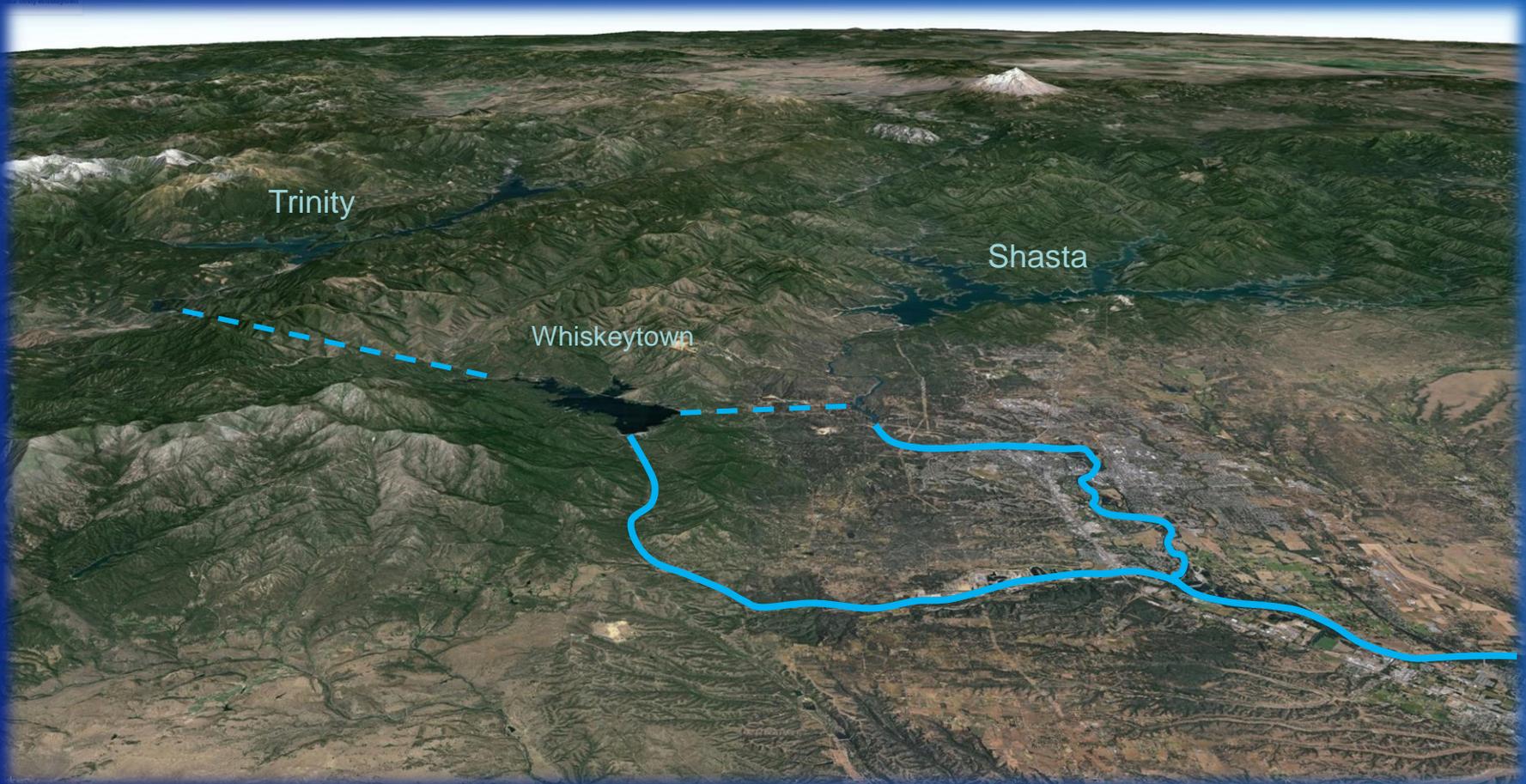
New Melones Lake

May 2015

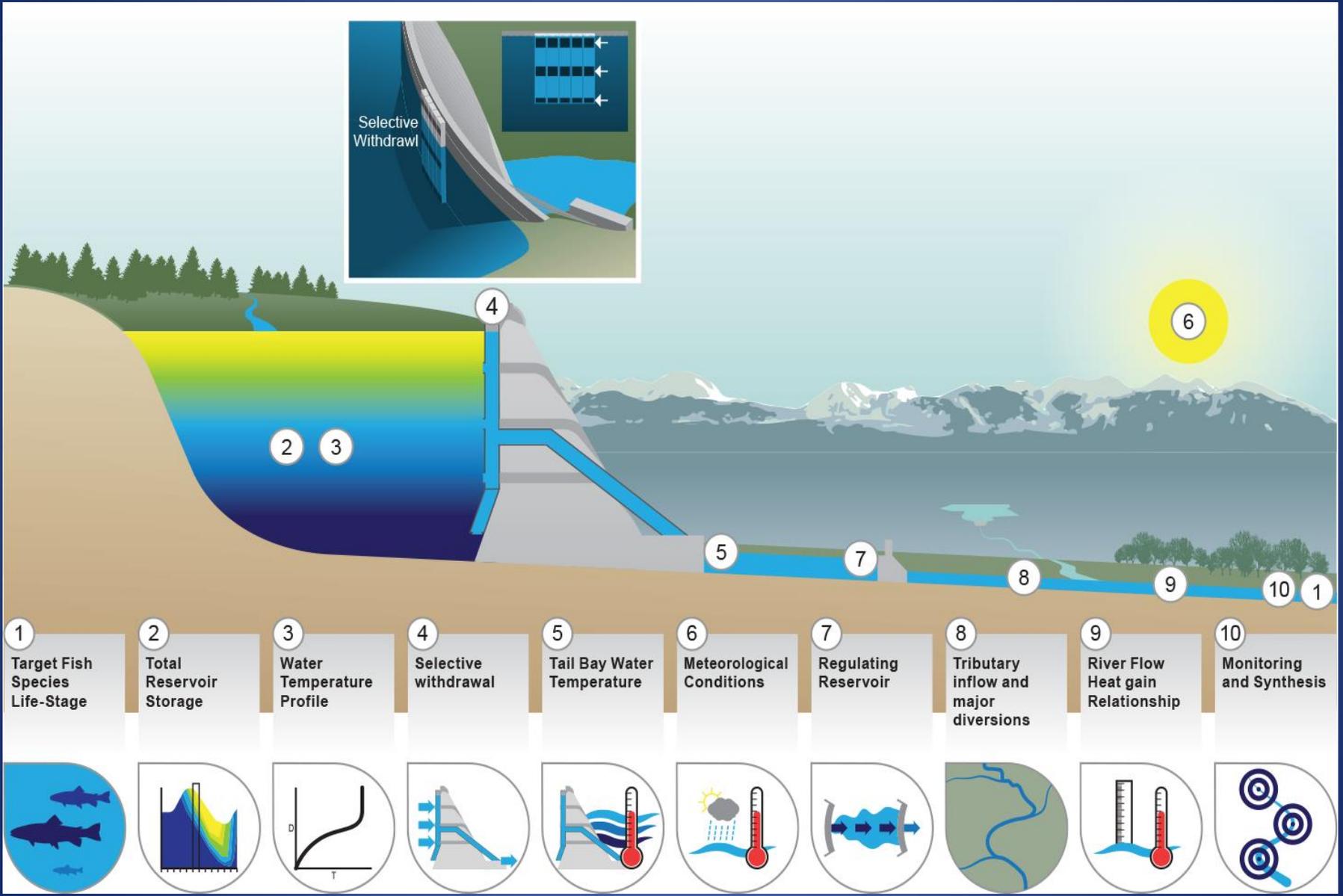


U.S. Department of the Interior
Bureau of Reclamation

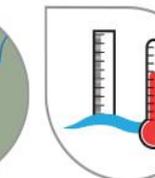
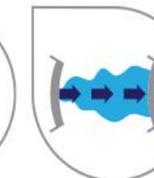
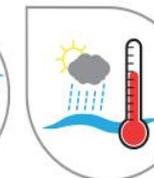
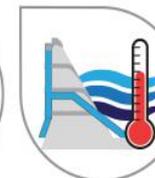
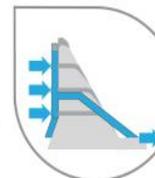
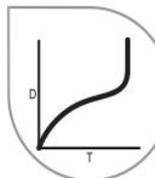
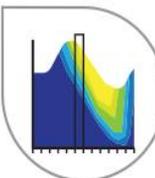
Northern CVP Reservoirs



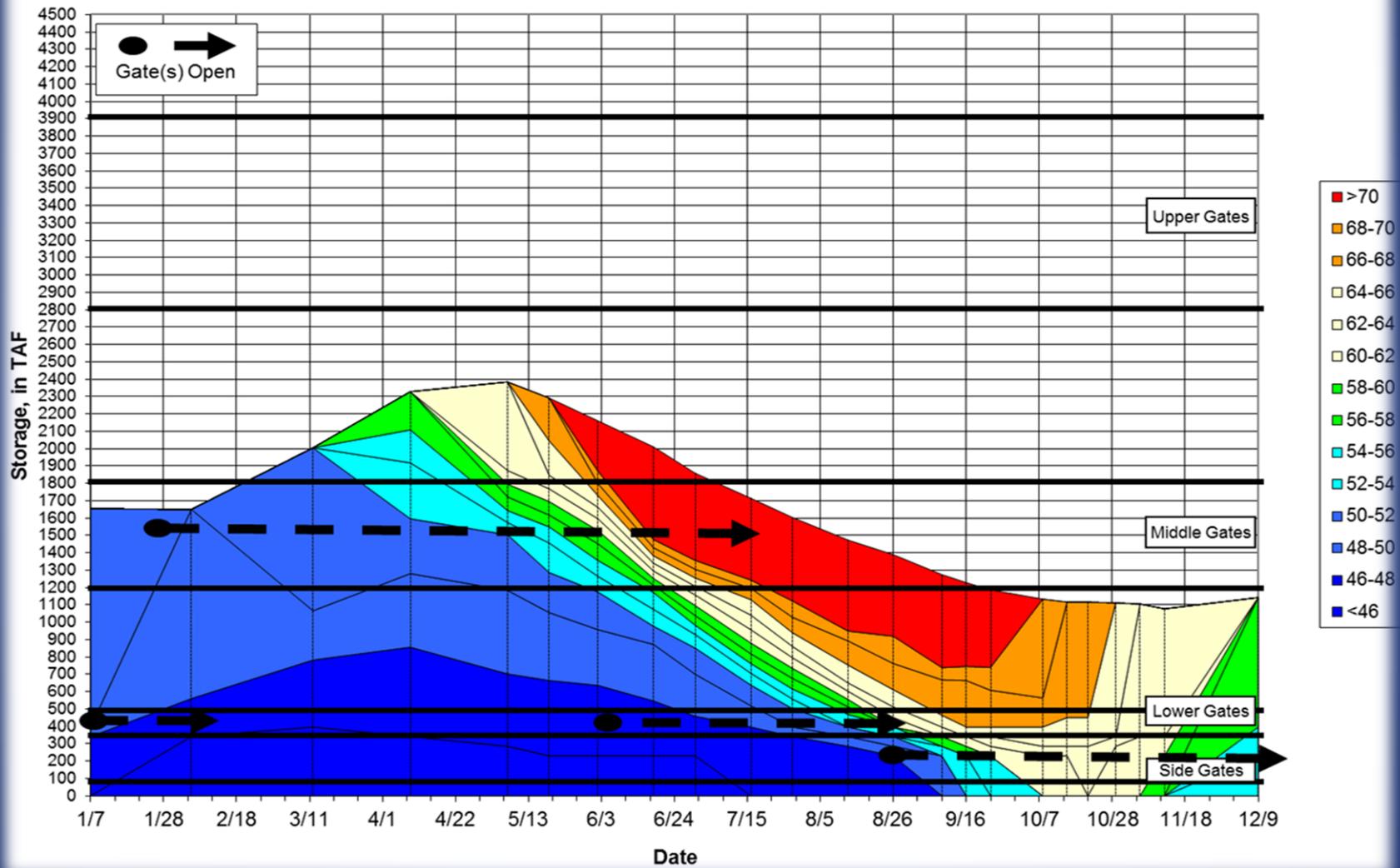
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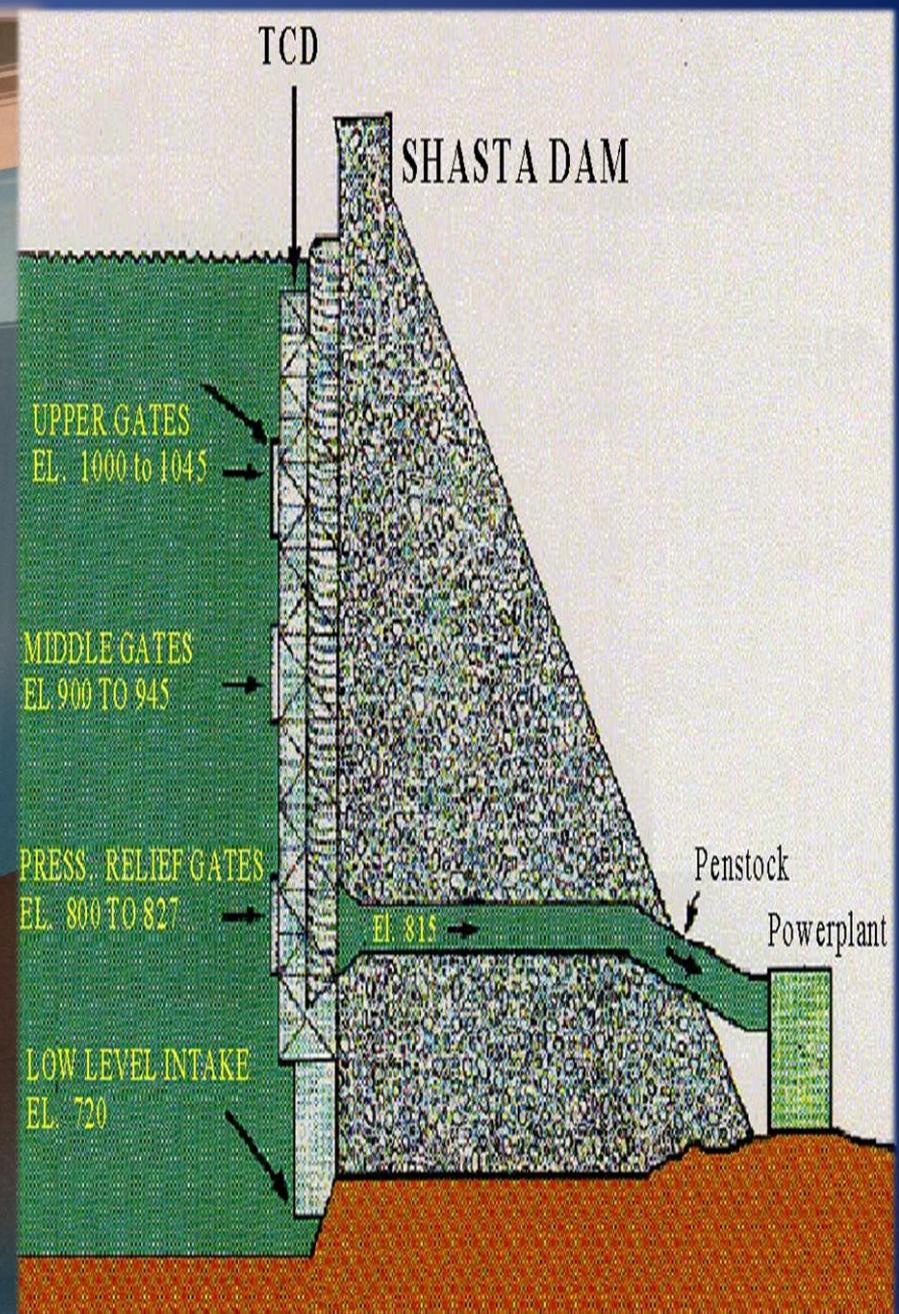
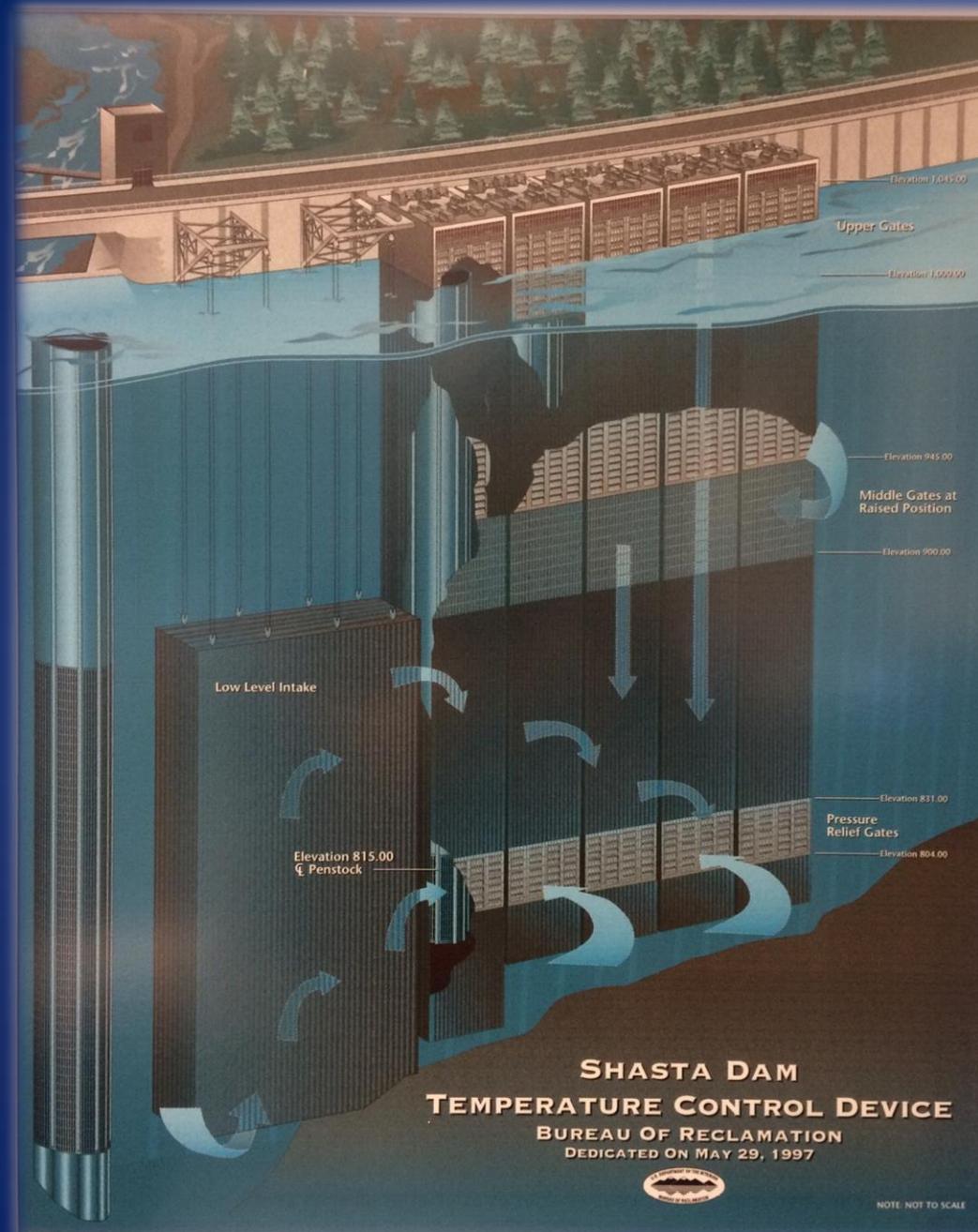


- 1 Target Fish Species Life-Stage
- 2 Total Reservoir Storage
- 3 Water Temperature Profile
- 4 Selective withdrawal
- 5 Tail Bay Water Temperature
- 6 Meteorological Conditions
- 7 Regulating Reservoir
- 8 Tributary inflow and major diversions
- 9 River Flow Heat gain Relationship
- 10 Monitoring and Synthesis



Lake Shasta Isothermobaths - 2014 (Water Temperature, in ° F)



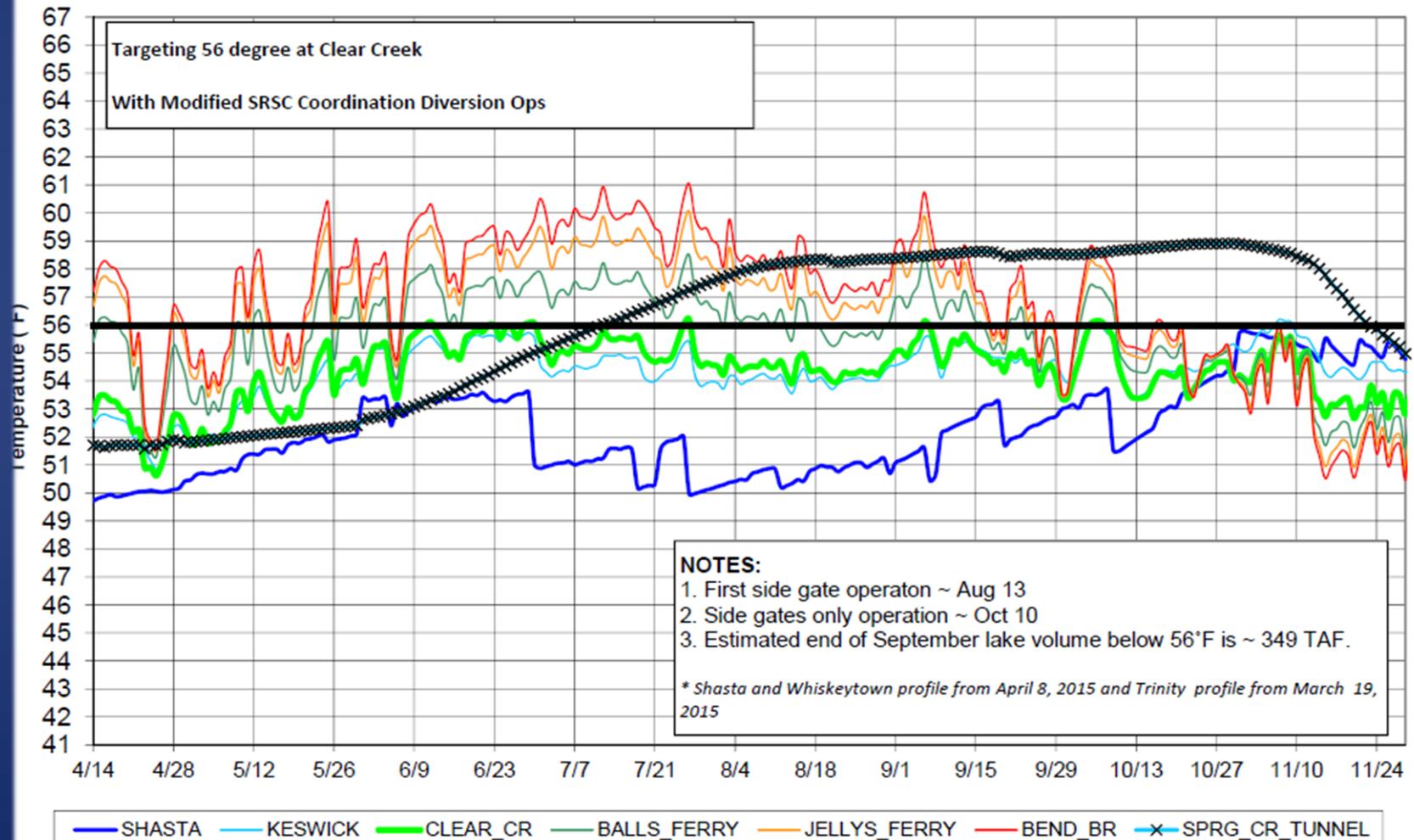


NOTE: NOT TO SCALE



April Temperature Model Results

Sacramento River Modeled Temperature
2015 April 90%-Exceedance Outlook

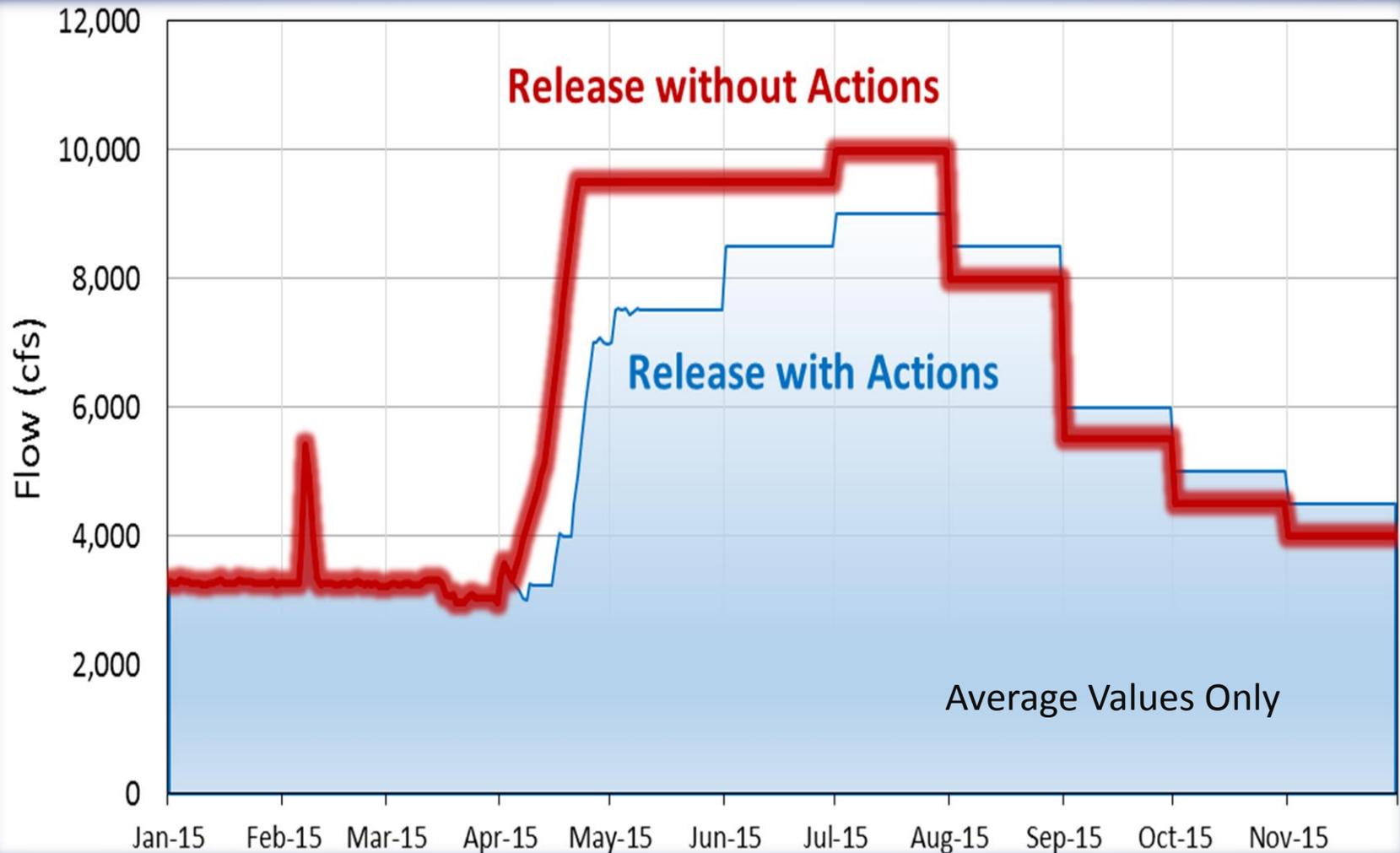


Adapting to Conditions

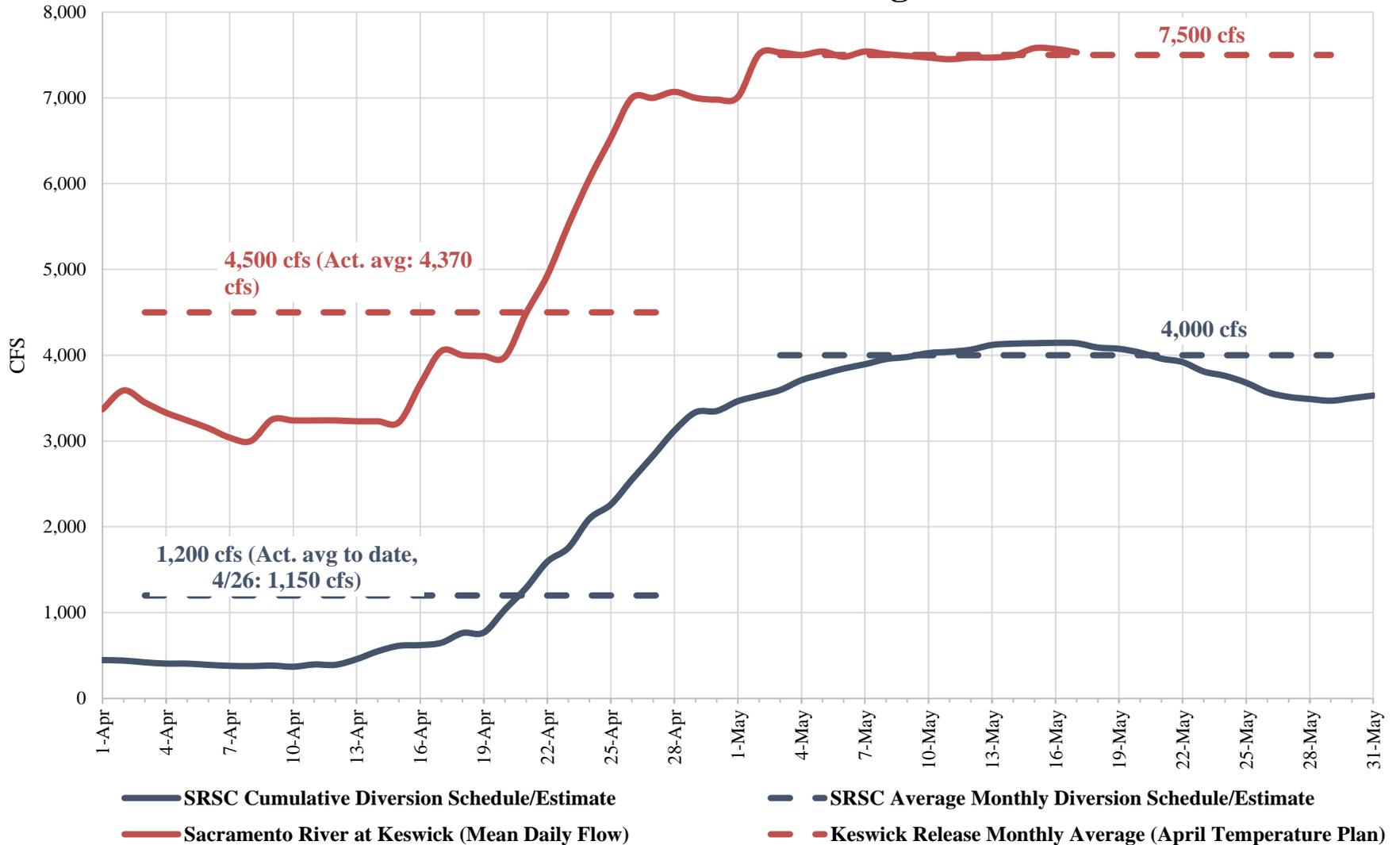
- Smart use of higher 2015 storage
- Modified SRSC diversions
- Higher Early Temperature Target (58 degrees)
- Spring Power Bypass (120 taf)

- Adjust to actual spawning location
- Trinity – Whiskeytown Operations
- Prepare to Bypass Power in Late Summer

Modified Keswick Release Pattern

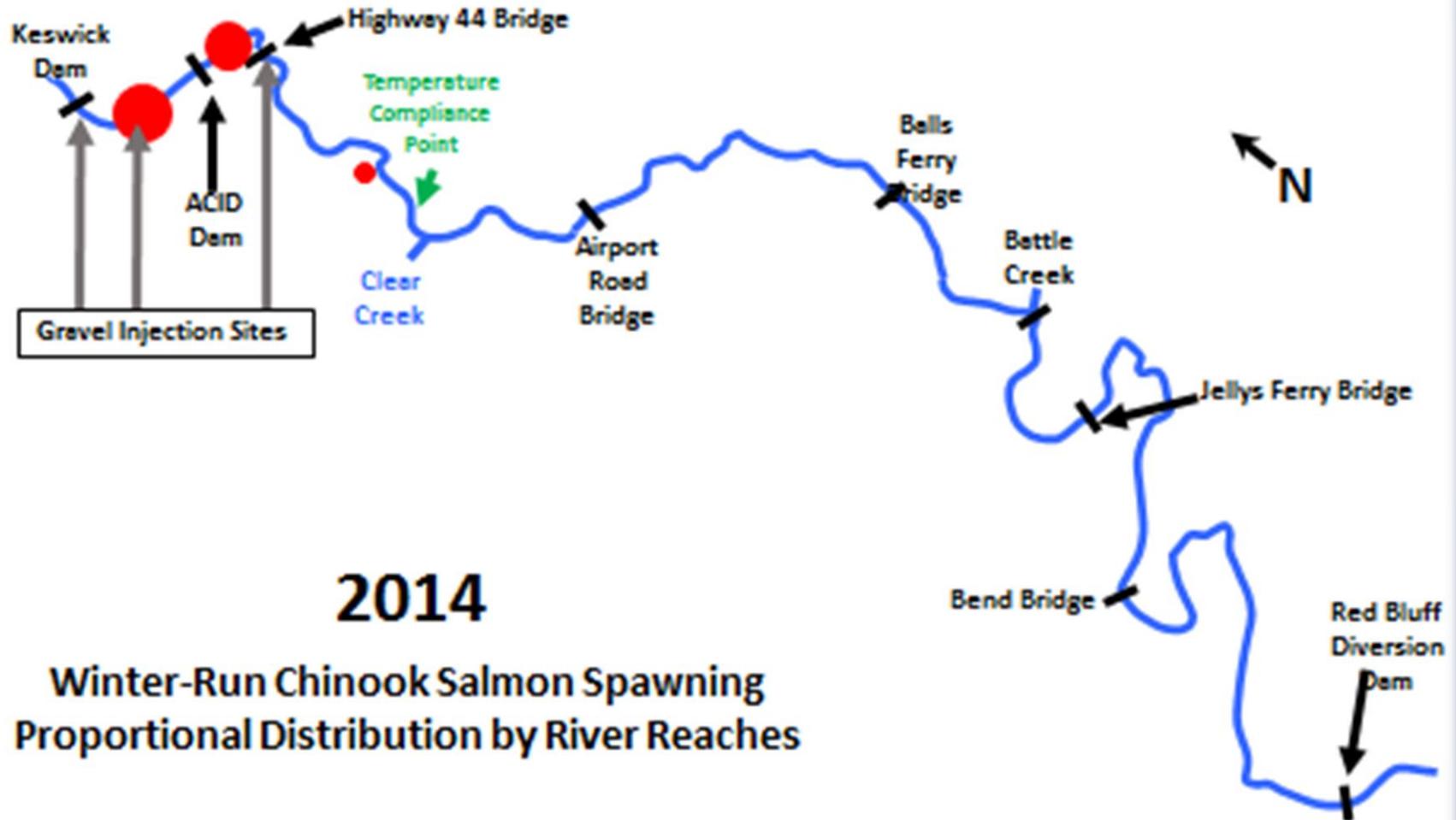


Sacramento River Settlement Contractors Estimated Cumulative 2015 Diversions Keswick to Wilkins Slough

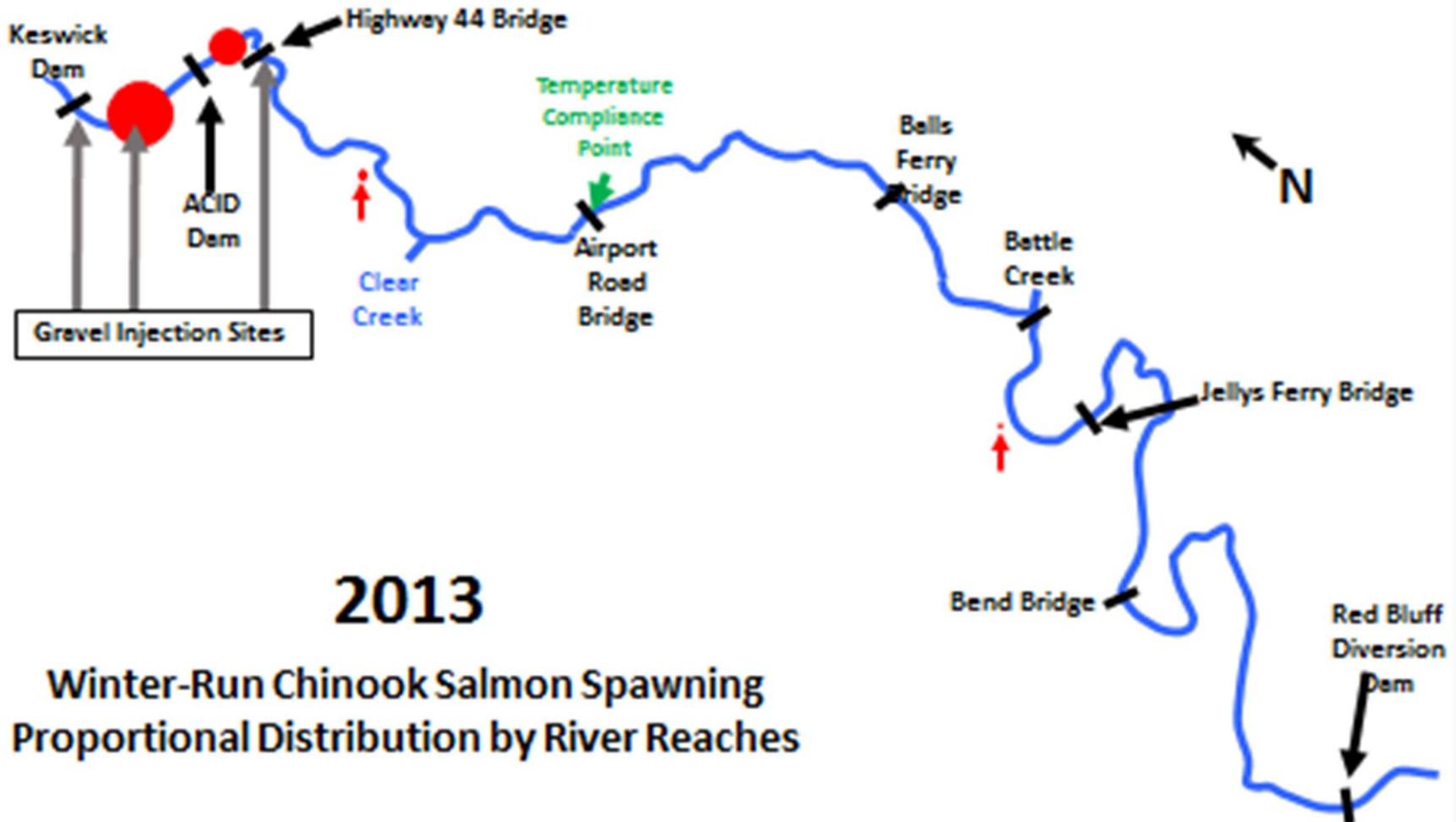


Note: Diversions are based on estimated schedules from the 9 major Sacramento River Settlement Contractors upstream of Wilkins Slough obtained 4/26/15.

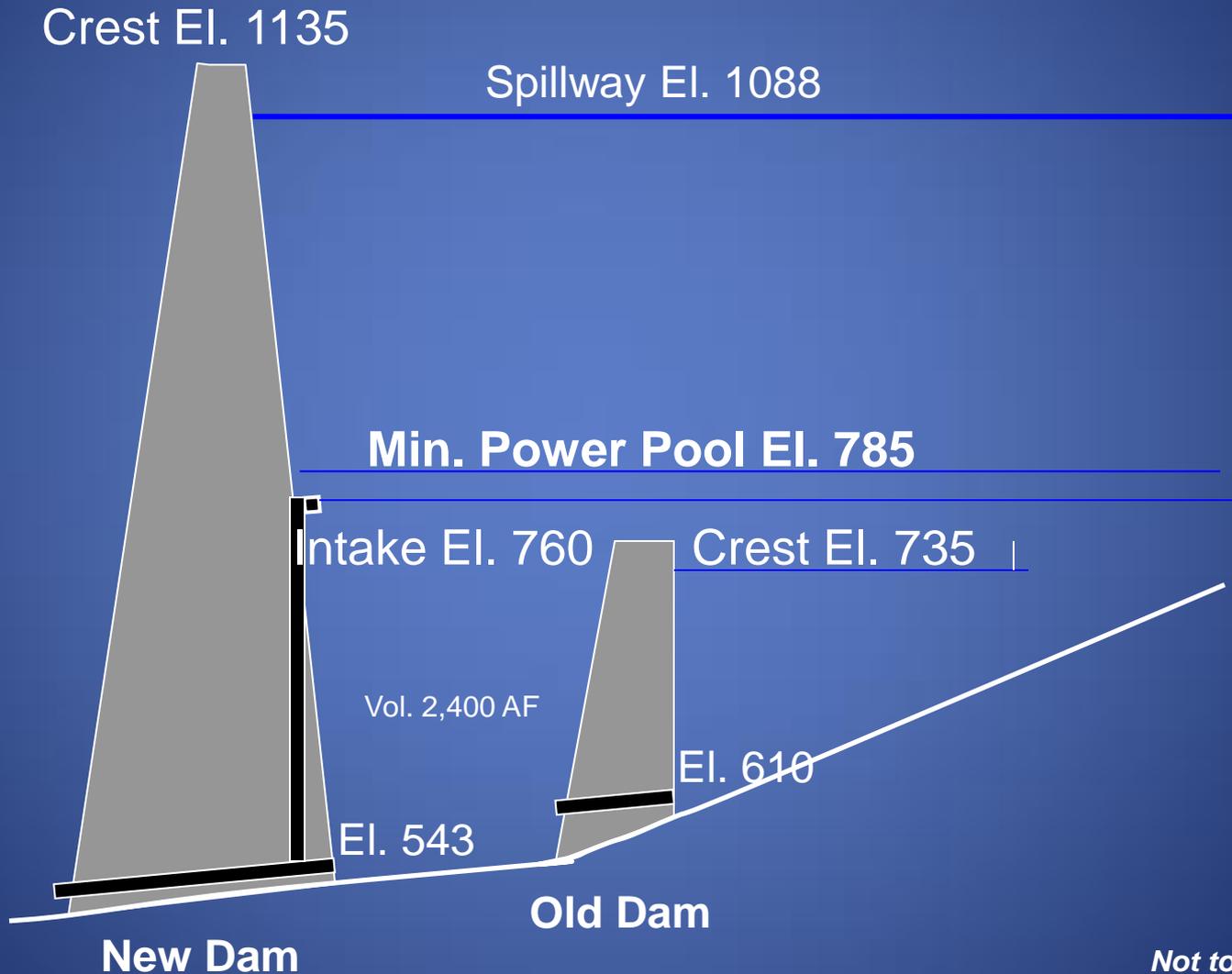
In-River Monitoring of Spawning



In-River Monitoring of Spawning



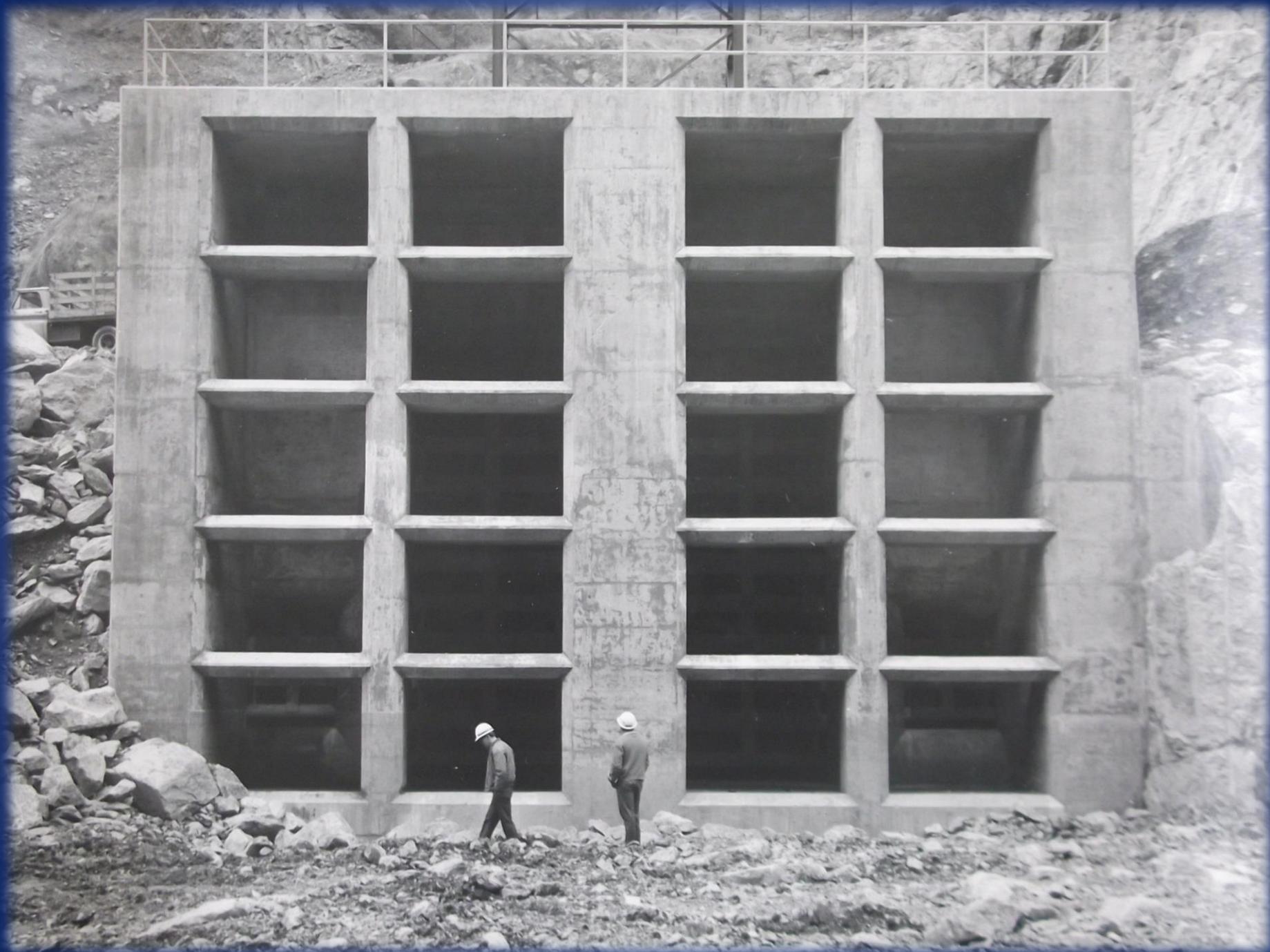
New Melones and old Melones Dam





**Beginning
Construction of
Main Outlet**

Lower Level Outlet



New Melones Plan

- Close Coordination with Local Districts
 - Upstream Reservoir Operations
 - District Water Conservation
- Target 145 to 150 taf end of September
- Modified D-1641 Objectives
- NMFS BiOp Summer Flows for Stanislaus River
- Blended Releases for River Temperature
- Assess Conditions for Fall Attraction Flow

Estimated Effect of Blending

