RECLANATION Managing Water in the West

Revised Shasta Temperature Management Plan Overview

June 2015



U.S. Department of the Interior Bureau of Reclamation



Lake Shasta Isothermobaths (Water Temperature, in °F)





Shasta Temperature Control Device



Beta Version Shasta TCD Dashboard



Shasta TCD Configuration 2015 vs. 2015



Temperature Gage Locations



Revised Plan Elements

- Target as close to 57°F as possible at CCR
- Closely monitor real-time temperatures near the Highway 44 bridge (SAC)
- Allowing short-term exceedances above 58°F at CCR to conserve cold water
- Set base flow at 7,250 cfs for June & July
- Delay full side-gate operation as long as possible
- Establish a Real-time Operations Team

Revised Plan Elements Base Keswick Flows

2015	Flow (cfs)
June	7,250
July	7,250
August	7,250
September	6,500
October	5,000

Flows subject to adjustment by the Real-Time Operations Team based on plan performance in June and July.

3 Month Temperature Outlook Shasta Dam

Jul-Aug-Sep Temperature Outlook



Generic Temperature Trace Sacramento River 10% L3MTO



RECLAMATI

Additional Actions

- New temperature gage site (SAC)
- Deploy additional temperature sensors
- Increased redds and river monitoring
- Tracking report of temperature exposure
- More intense real-time decision making
- Increased capacity at LSNF Hatchery to accommodate up to 400 adults
- Model review effort for future refinements