



Shasta Temperature Management Plan – Supplemental Graphics

The following graphics are described in the Shasta Temperature Management Plan “Key Components” document.

Figure 1. Comparison of Shasta Reservoir volume and cold water pool quantity and quality in 2014 vs. 2015 (from the State Water Resources Control Board):

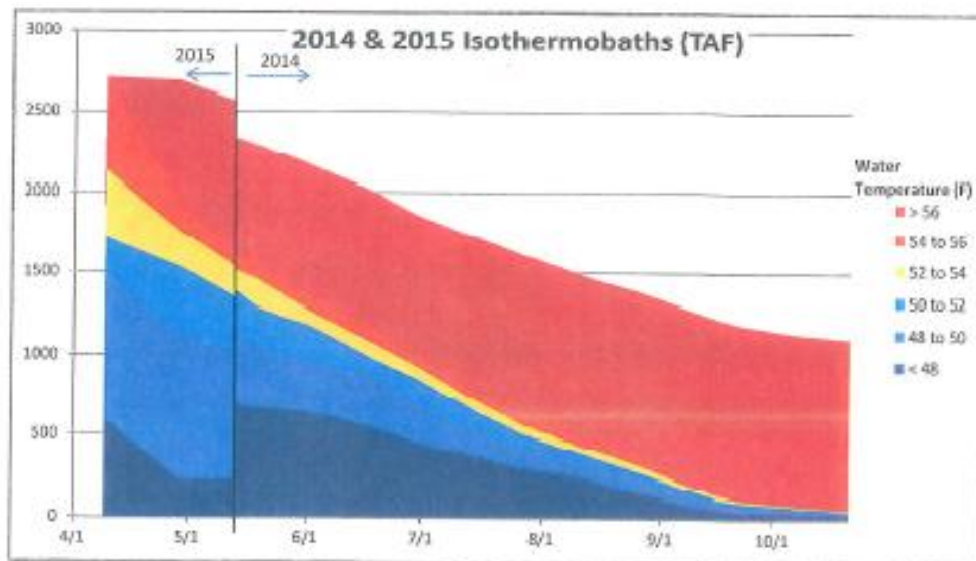
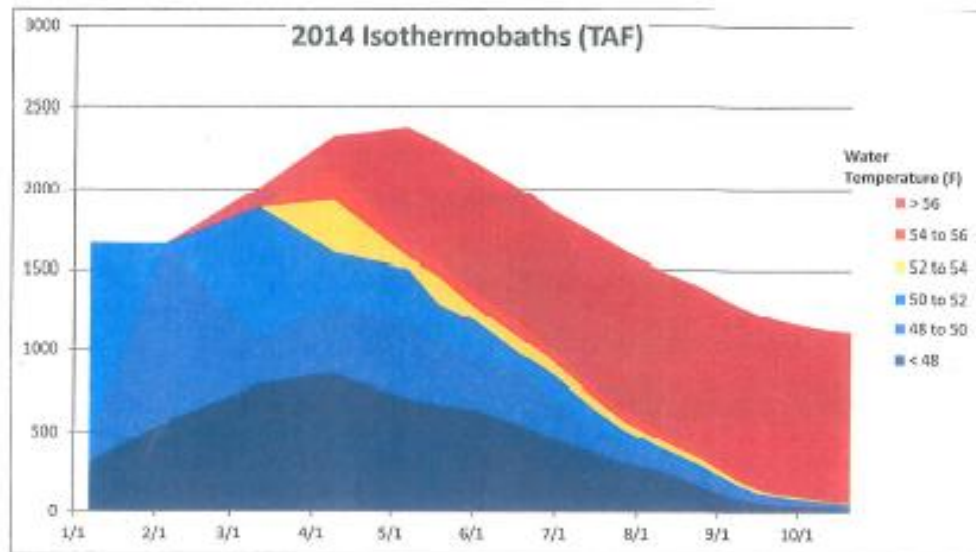


Figure 2. Air temperatures for Redding, California, from mid-March through mid-June. From NOAA's Climate Prediction Center, http://www.cpc.ncep.noaa.gov/products/global_monitoring/temperature/tn72592_90.gif

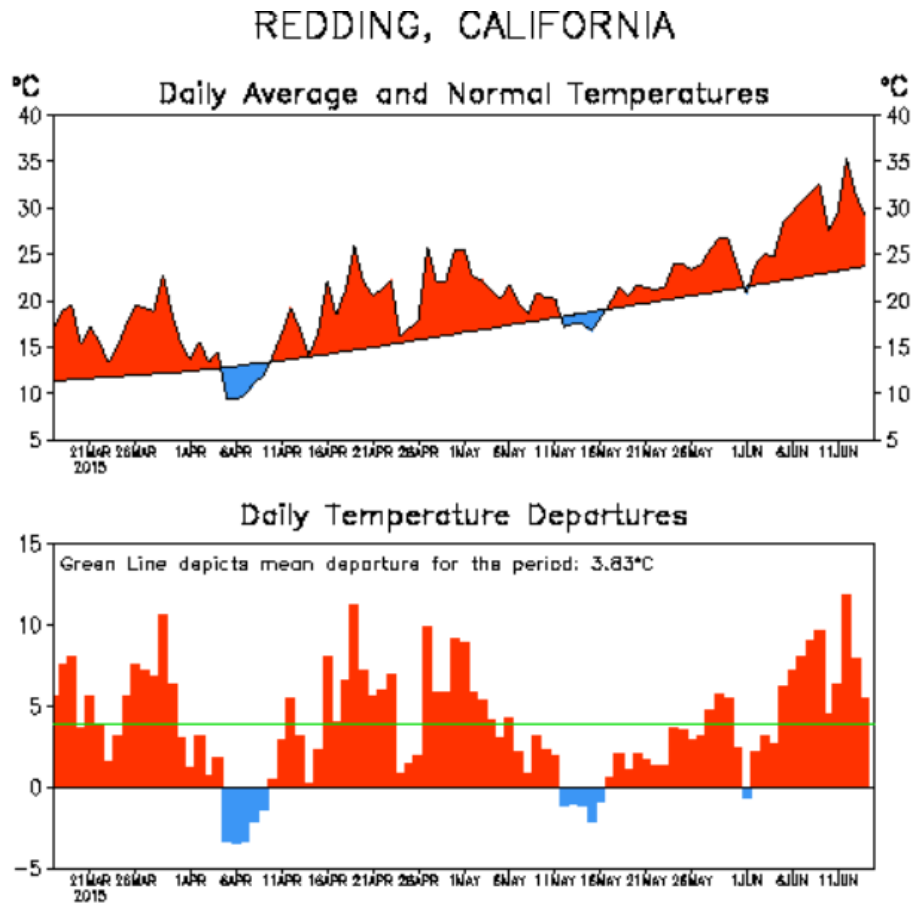


Figure 3. Temperatures in Clear Creek (May 29, 2015, e-mail from Matt Brown, USFWS, to the Sacramento River Temperature Task Group):

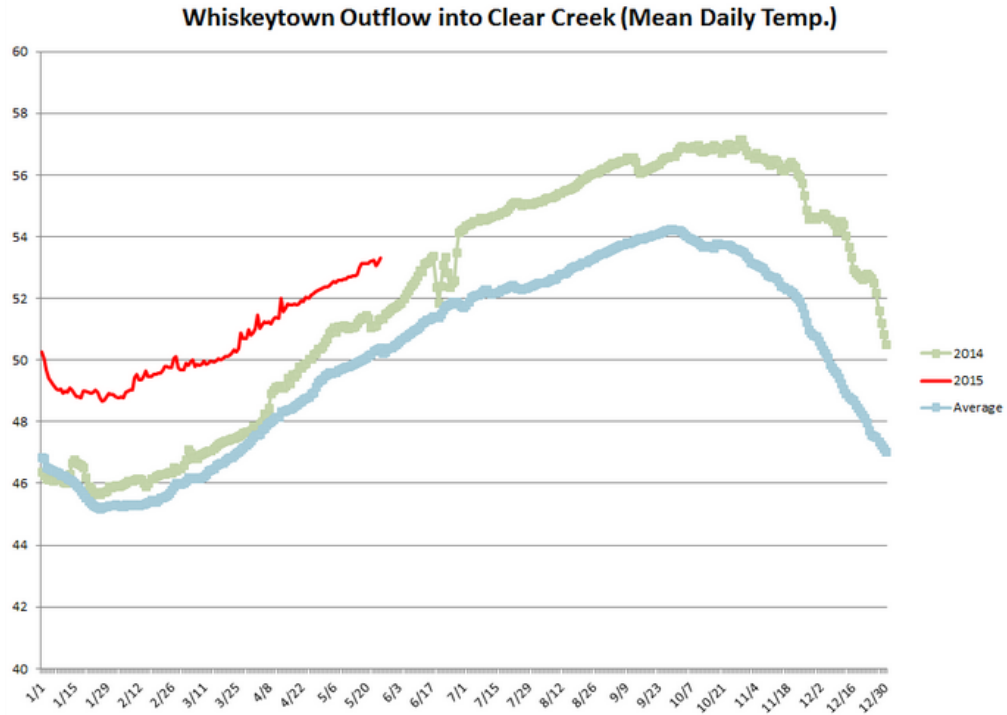


Figure 4. Sacramento River Modeled Temperature from May 2015 and releases from Keswick of 7,000 cfs, using a 10% meteorological conditions outlook (using the warmest 10% temperature projections) over the next 90 days. The colored series depict modeled temperature over time at different locations in the system. (From the U.S. Bureau of Reclamation)

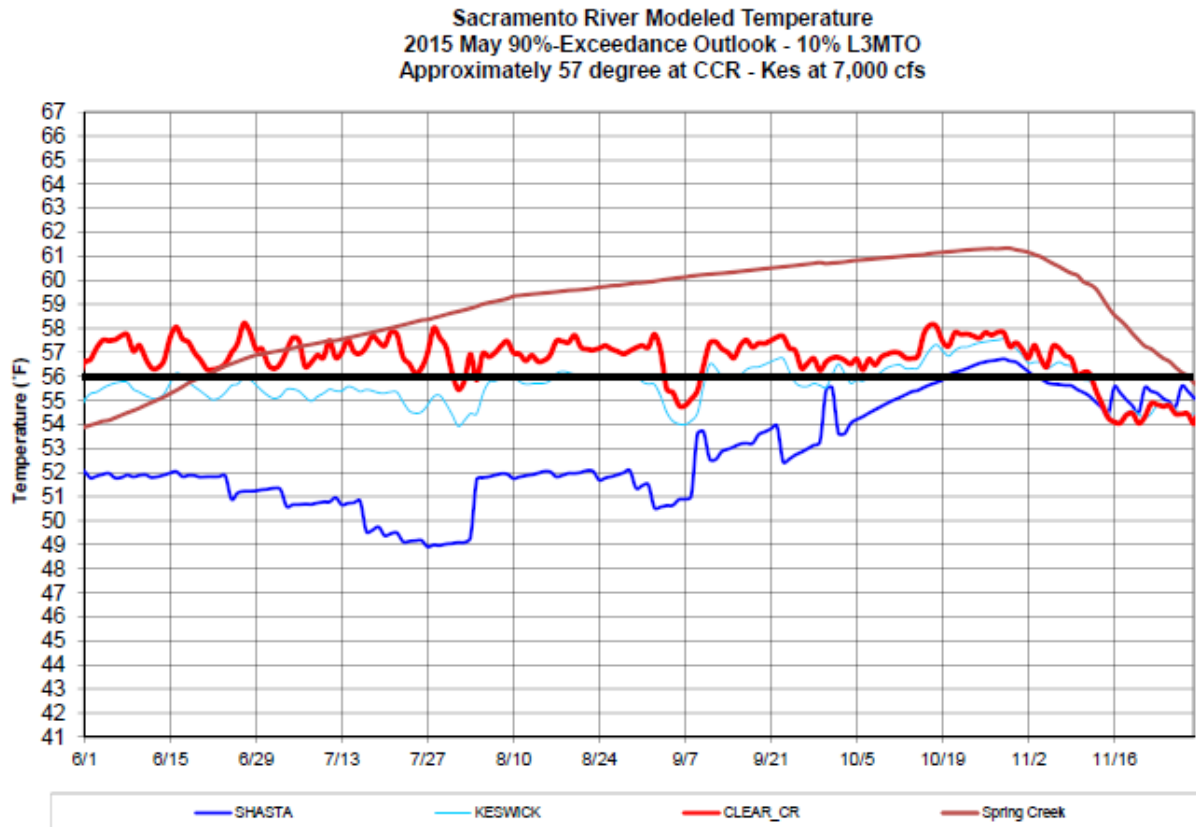


Figure 5. Sacramento River Modeled Temperature from May 2015 and releases from Keswick of 7,500 cfs, using a 10% meteorological conditions outlook (warmest 10% projections) over the next 90 days. The colored series depict modeled temperature over time at different locations in the system. (From the U.S. Bureau of Reclamation)

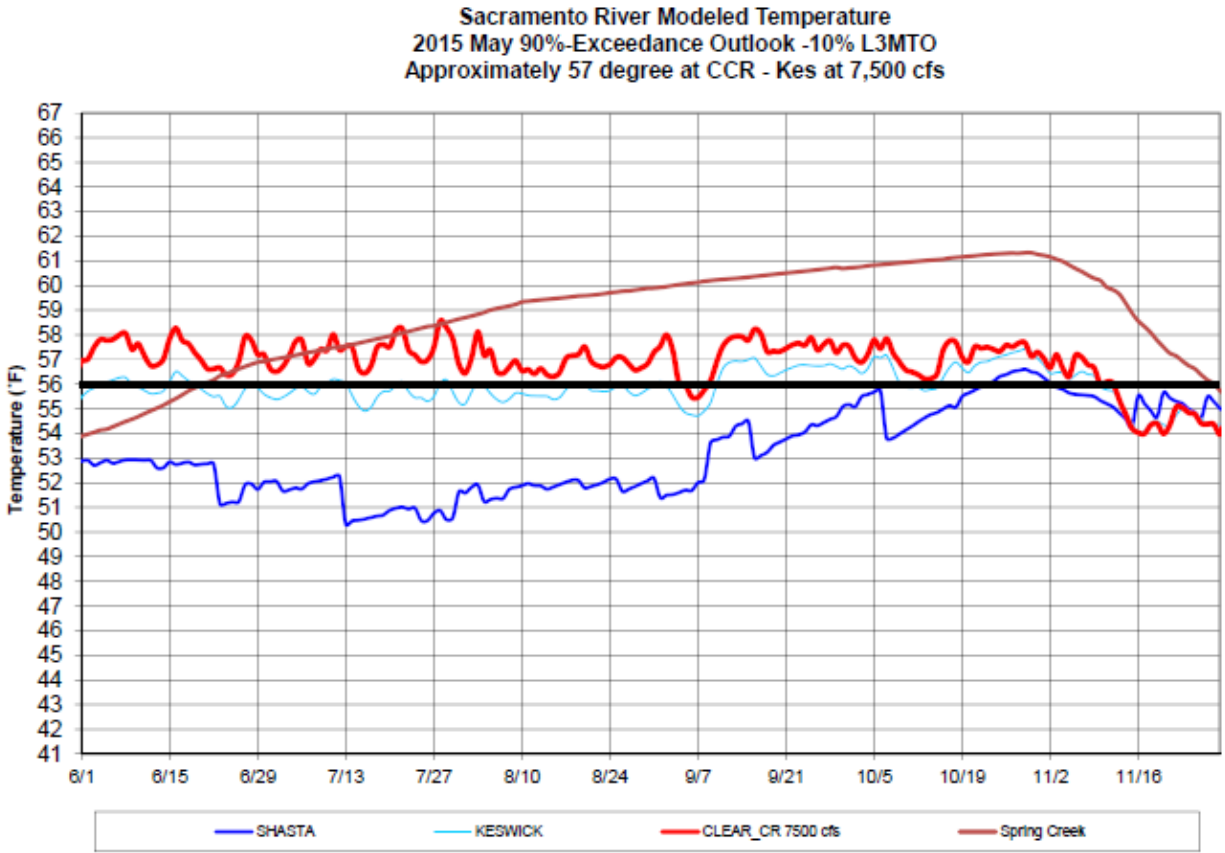


Figure 6. Projected water temperatures using the RAFT model. The top subplot has a boxplot for winter run Chinook salmon egg incubation time and a boxplot for the period representing 45 days post-egg emergence, calculated from 2014 redd data. The next three subplots show temperature for the 7,000 cfs scenario, 7,500 cfs scenario, and 2014, respectively. Each subplot has an isoline (solid black line) following 57°F across the plot, and a black horizontal line showing the temperature compliance point above Clear Creek.

