USBR WTMP Summary Report

Study: WTMP_American

Simulation: W2 Folsom FixedATSP-May2024Fcst

Simulation Date: October 07, 2025 11:12

Report Date: October 08, 2025

TABLE OF CONTENTS

TABLE OF FIGURES

TABLE OF TABLES

Introduction

This report presents an overview of temperature model results for the following conditions.
Project: WTMP_American
Simulation: W2 Folsom FixedATSP-May2024Fcst
Analysis Period: 14 May 2024, 00:00 to 30 November 2024, 24:00
Models:

      Summary of Models: CeQualW2

      Iterations: CeQualW2

Simulation Date: October 07, 2025 11:12
Report Date: October 08, 2025

Summary of Models

Iteration Summary

Iteration and member number are used interchangeably. The last two digits of the iteration/member number correspond to the ATSP Schedule number.

Table 1. Iteration run information.

Member Number	Operations	Met Set	Temp Target
55	May90_WY2024	Historic-2014	ATSP Leap Year - ScheduleA

Folsom Lake Outflow Temperature Summary
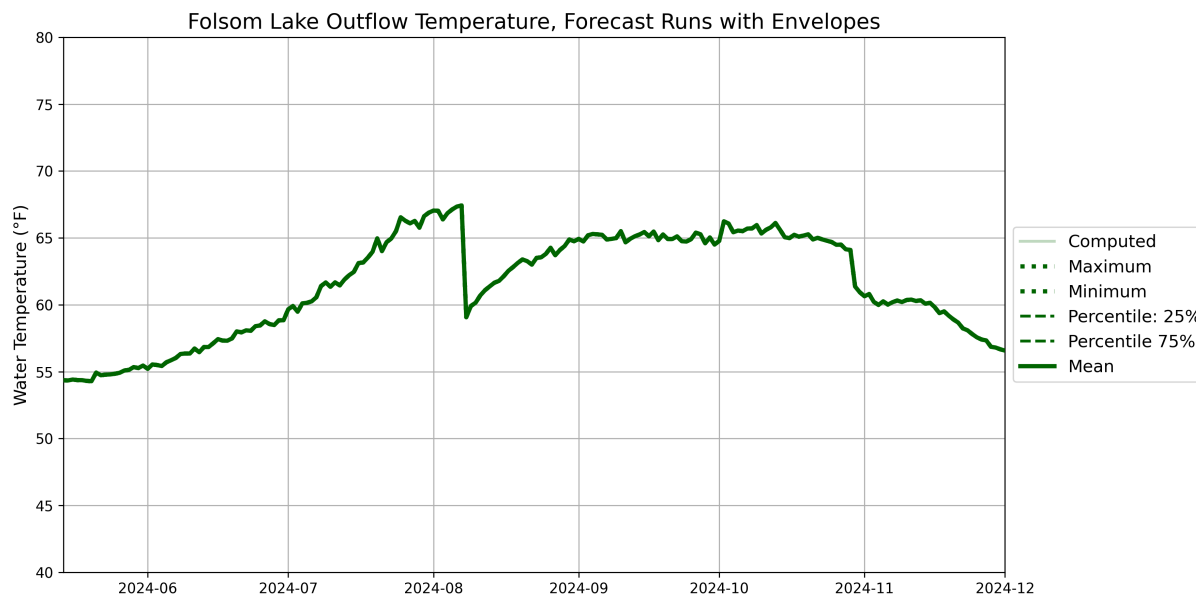
Figure 1. Folsom Lake outflow temperature, forecast runs (variable input) with percentile envelopes computed. CE-QUAL-W2.
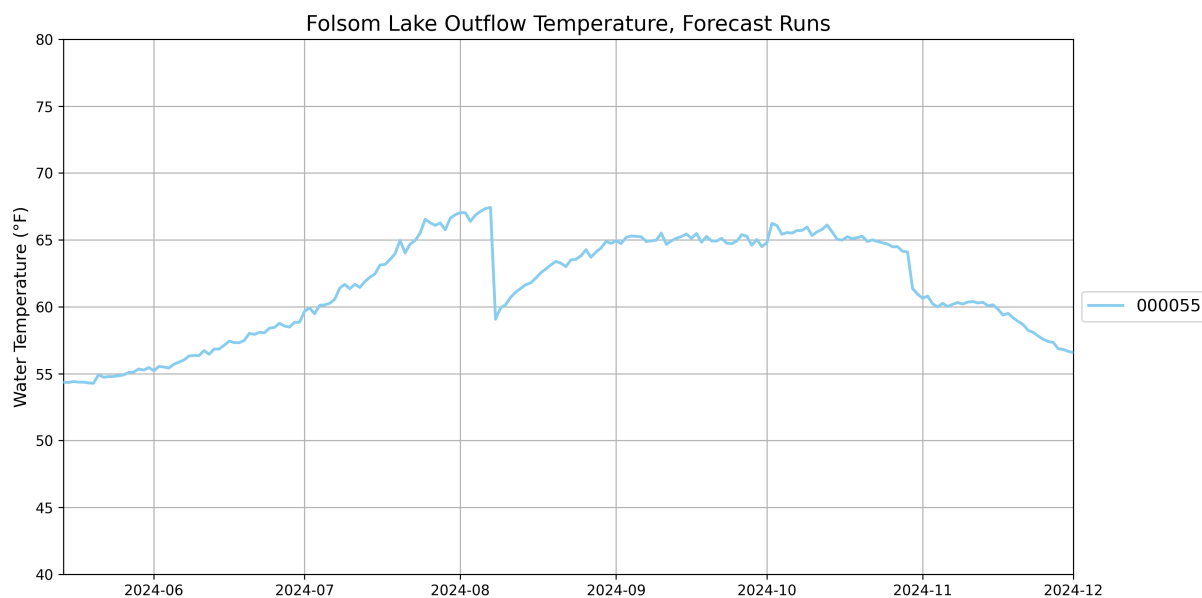
Figure 2. Folsom Lake outflow temperature, forecast run (variable input), by iteration. CE-QUAL-W2.

Table 2. Folsom Lake outflow temperature, iteration statistical summary, May - Nov 2024 (°F). CE-QUAL-W2.

Iteration	Maximum	Mean	Minimum
000055	67.4	61.5	54.3

American River at Hazel Avenue Bridge Temperature Summary
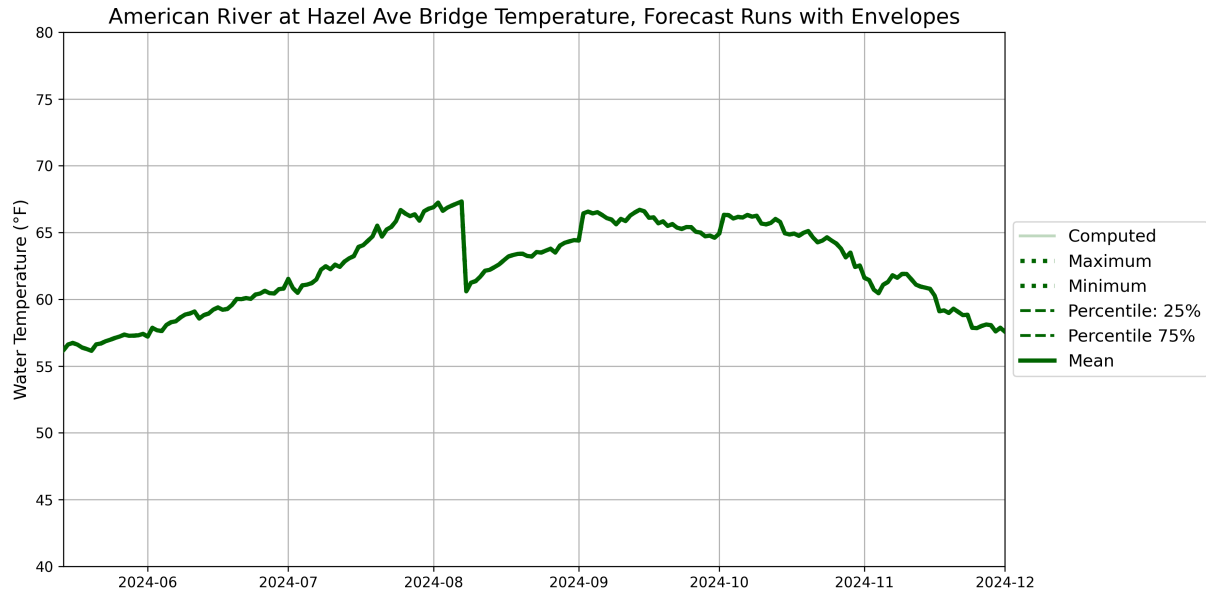
Figure 3. American River at Hazel Ave Bridge temperature, forecast runs (variable input) with percentile envelopes computed. CE-QUAL-W2.
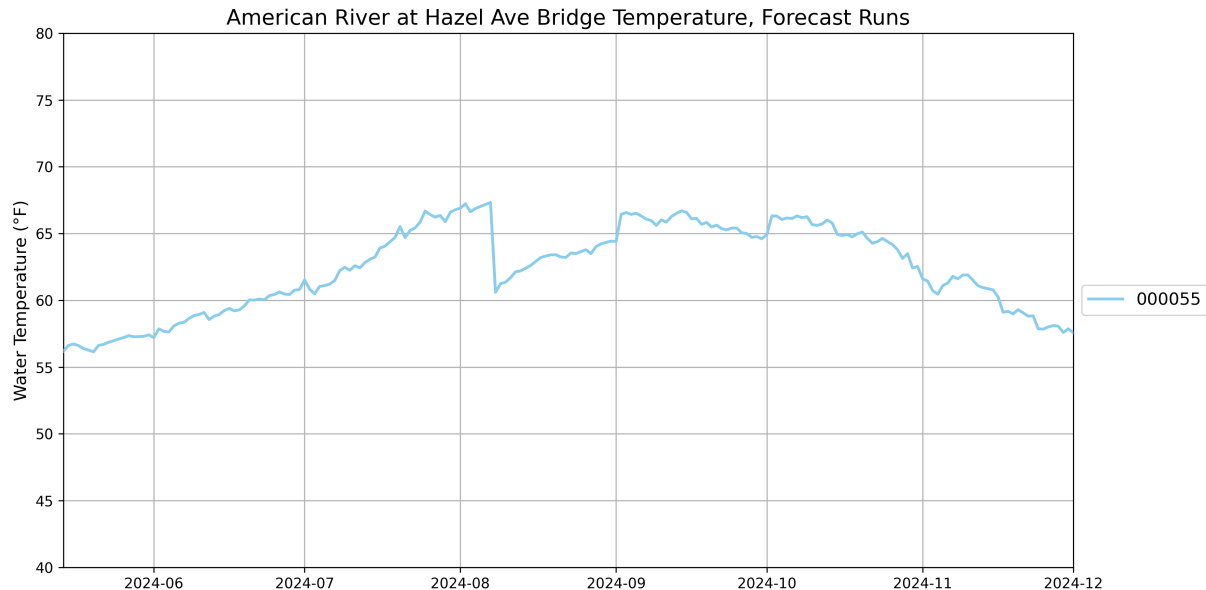
Figure 4. American River at Hazel Ave Bridge temperature, forecast runs (variable inputs) by iteration. CE-QUAL-W2.

Table 3. American River at Hazel Ave Bridge temperature, iteration statistical summary, May - Nov 2024 (°F). CE-QUAL-W2.

Iteration	Maximum	Mean	Minimum
000055	67.3	62.4	56.1

American River at Watt Ave Bridge Temperature Summary

Figure 5. American River at Watt Ave Bridge temperature, forecast runs (variable input) with percentile envelopes computed. CE-QUAL-W2.

Figure 6. American River at Watt Ave Bridge temperature, forecast runs (variable input), by iteration. CE-QUAL-W2.

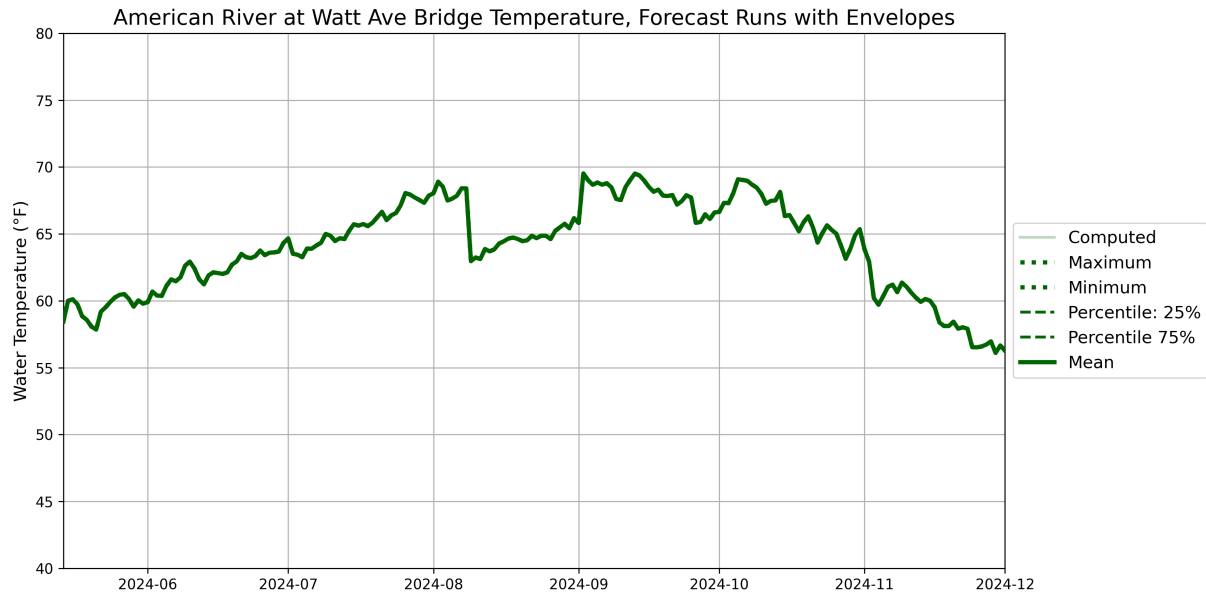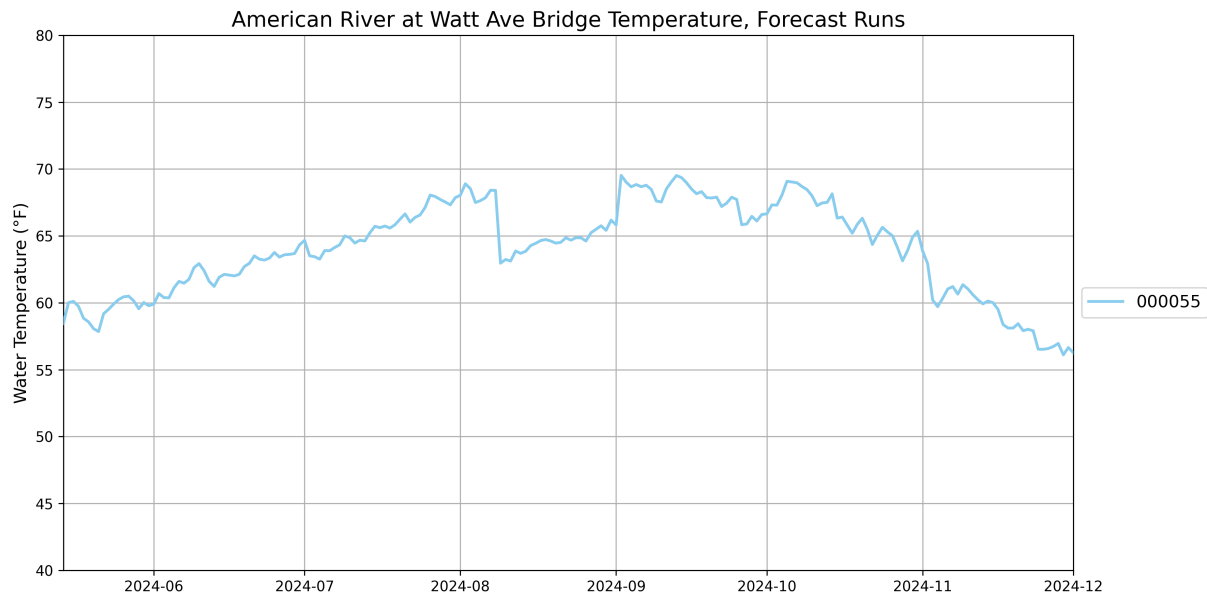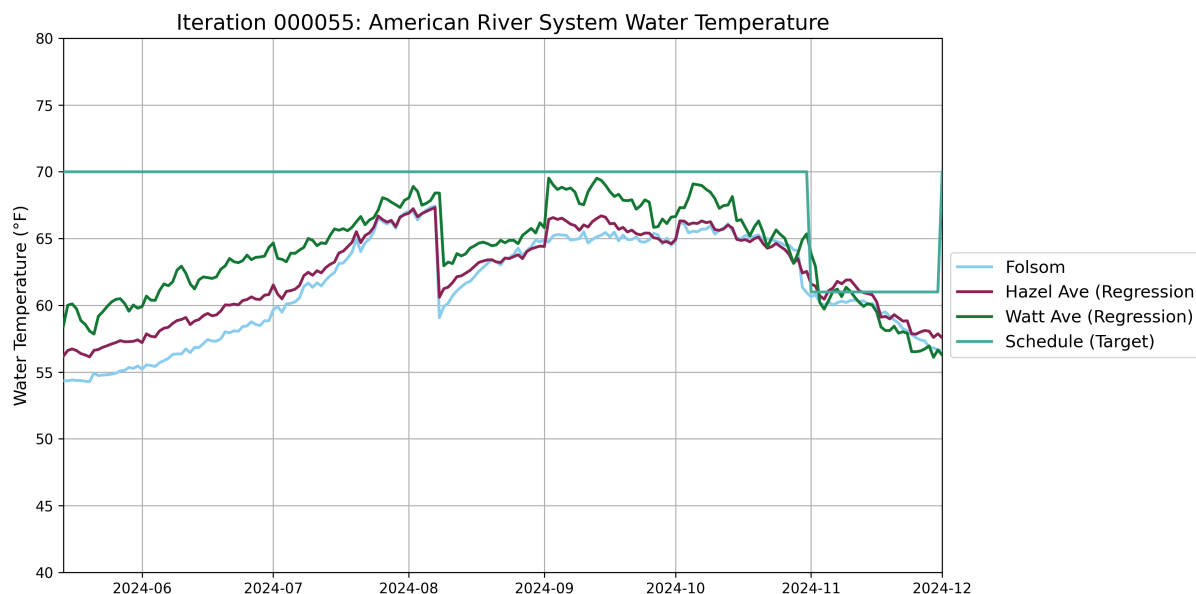**Table 4. American River at Watt Ave Bridge temperature, iteration statistical summary, May - Nov 2024 (°F). CE-QUAL-W2.**

Iteration	Maximum	Mean	Minimum
000055	69.5	64.0	56.1

Iterations

Iteration 000055: American River System Water Temperature Summary

Figure 7. Iteration 000055: American River system water temperature, forecast 2024. CE-QUAL-W2.

Table 5. Iteration 000055: American River system water temperature statistical summary, May - Nov 2024 (°F). CE-QUAL-W2.

Location	Maximum	Mean	Minimum
Folsom	67.4	61.5	54.3
Hazel Ave (Regression)	67.3	62.4	56.1
Watt Ave (Regression)	69.5	64.0	56.1
Schedule (Target)	70.0	68.7	61.0

Table 6. Iteration 000055: American River system water temperature monthly average water temperature, 2024 (°F). CE-QUAL-W2.

Month	Folsom (°F)	Hazel Ave (°F)	Watt Ave (°F)	Schedule (Target) (°F)
Apr	nan	nan	nan	nan
May	54.8	56.8	59.5	70.0
Jun	57.1	59.3	62.3	70.0
Jul	63.1	63.8	65.6	70.0
Aug	63.6	63.9	65.5	70.0
Sep	65.0	65.8	67.9	70.0
Oct	65.0	65.0	66.5	70.0
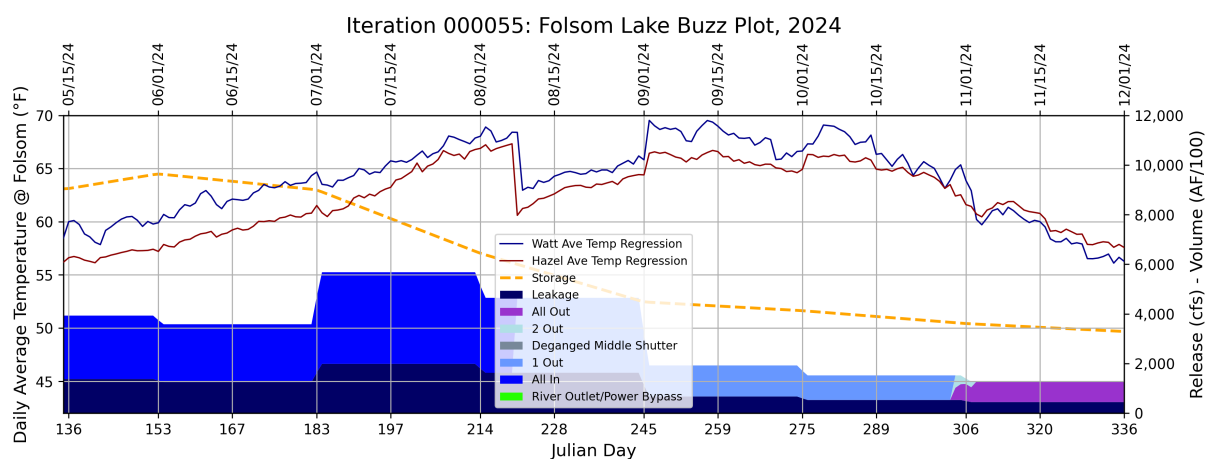
Figure 8. Iteration 000055: Folsom Lake Buzz Plot 2024. CE-QUAL-W2.