

# Santa Ana River Wasteload Allocation Model Update

May 14, 2019



5/14/2019

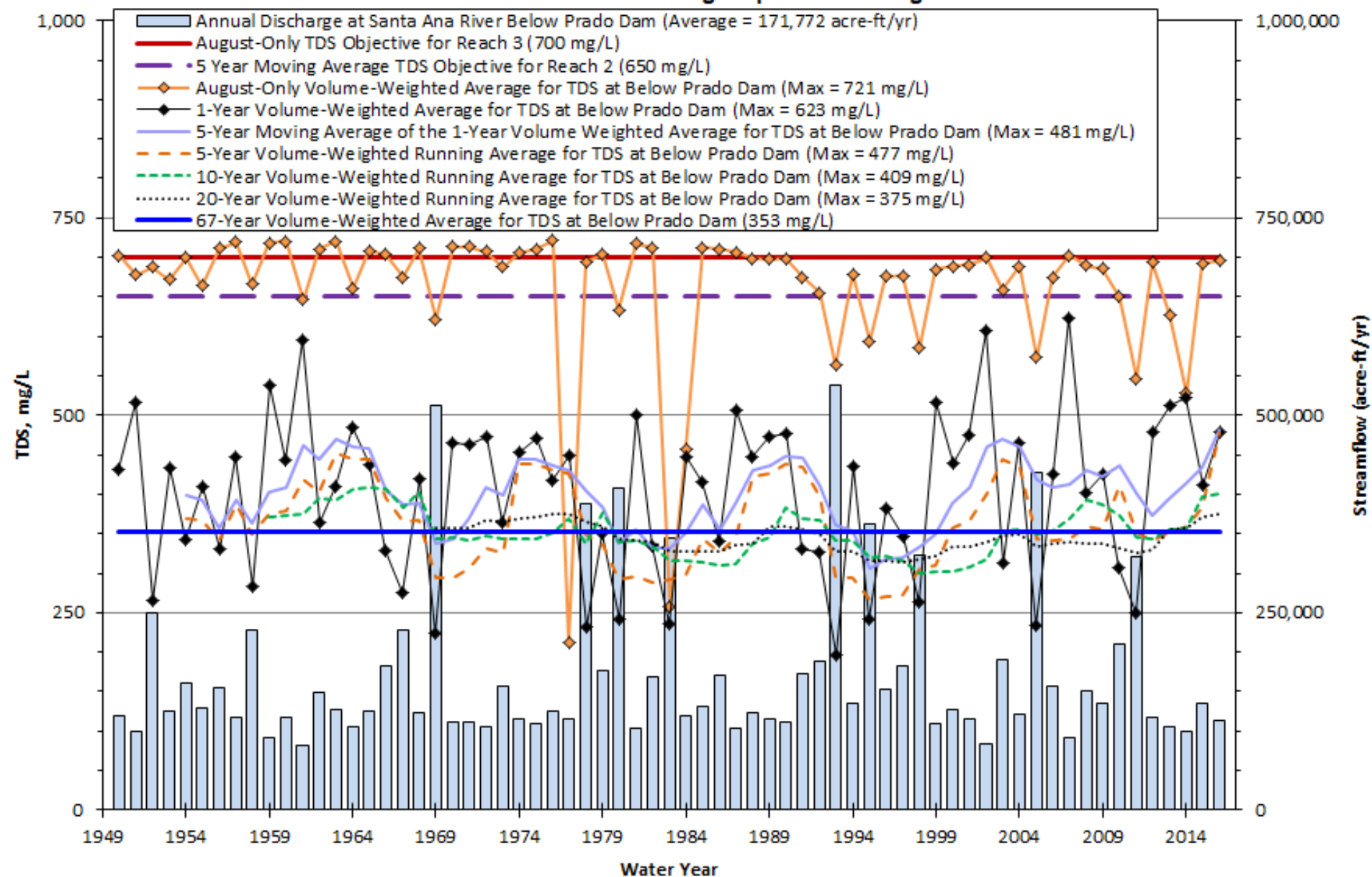
# Overview

- Review Outstanding Concerns of Predictive Model Scenarios
- Next Steps

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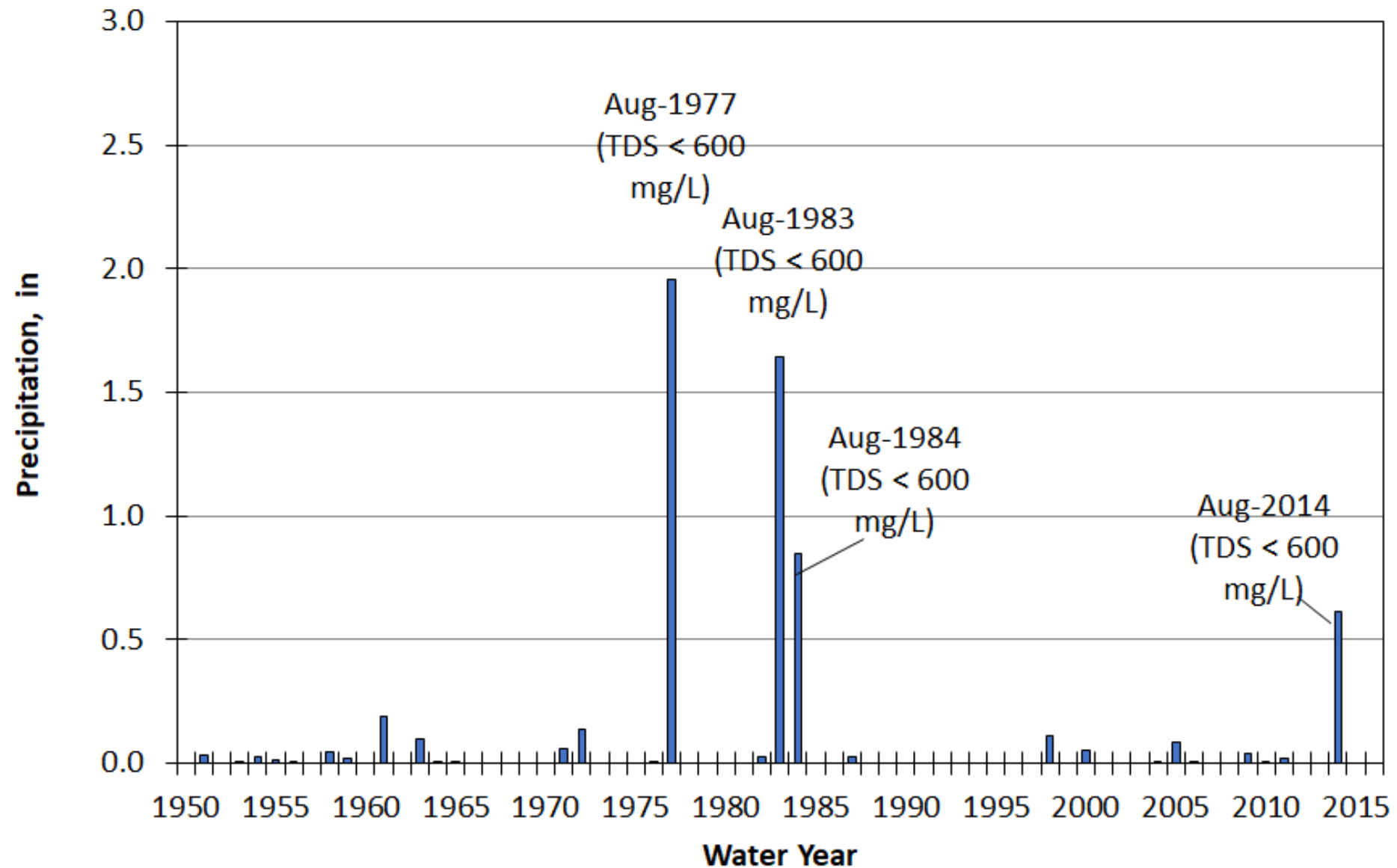
**Estimated Annual Discharge and Volume-Weighted TDS Concentration  
at Santa Ana River Below Prado Dam  
Scenario B - 2020 Average Expected Discharge**



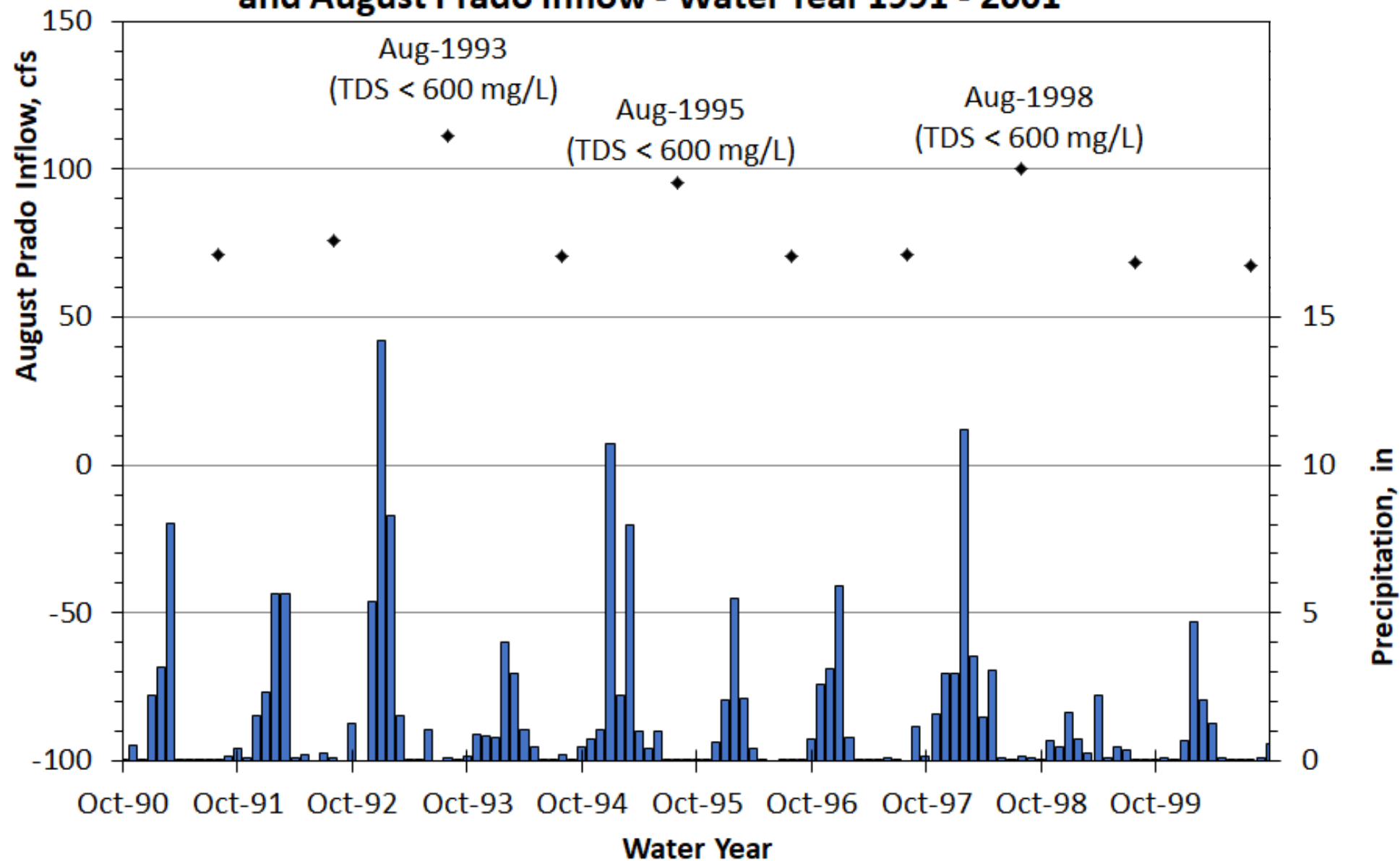
# Reason for Low August TDS Concentration below Prado Dam

Water Year	Reason for Lower August TDS Concentration
1977, 1983, 1984, and 2014	High precipitation in August
1993, 1995, 1998, 2005, and 2011	High flow to Prado as the result of very high precipitation before August

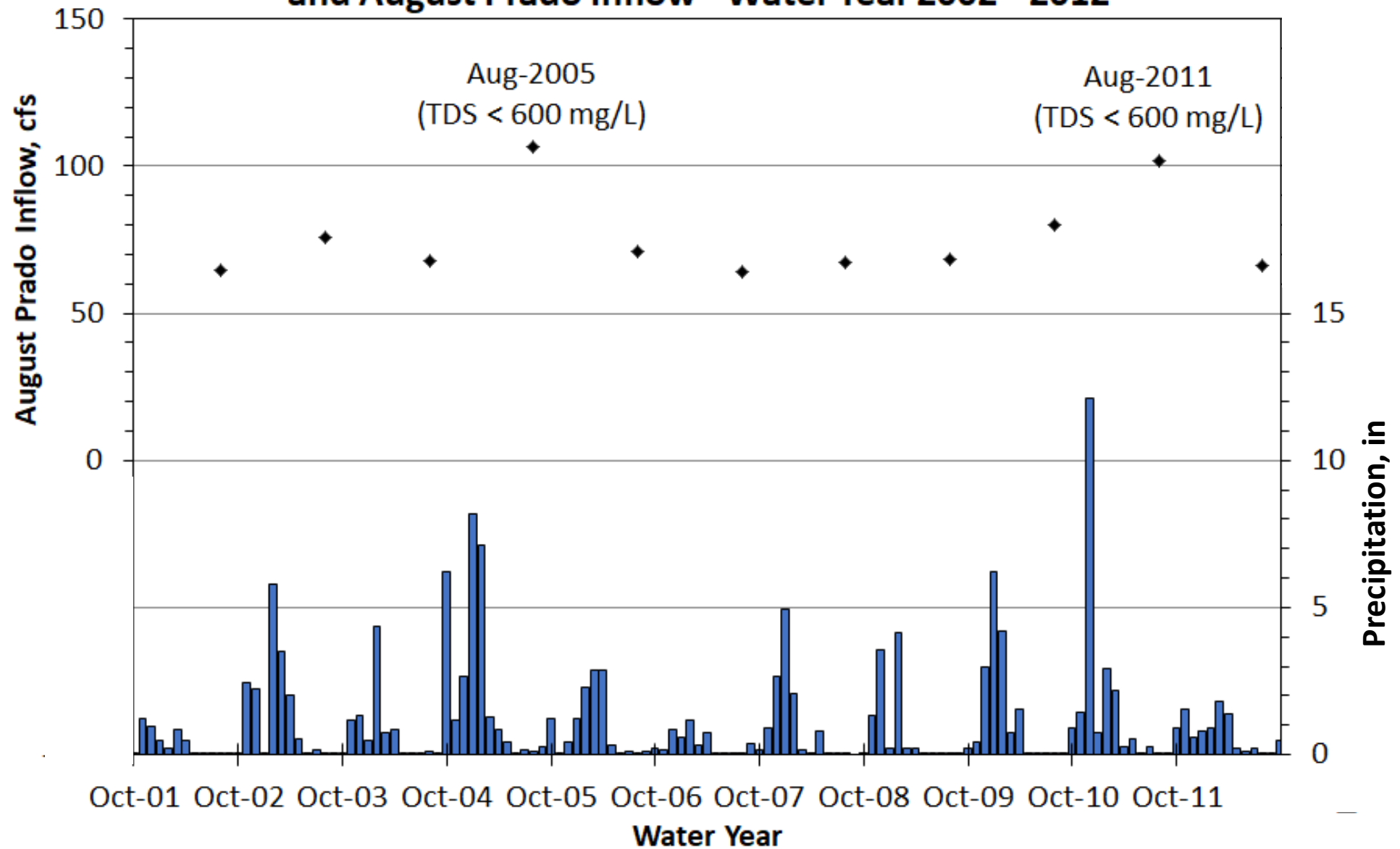
### Average August Precipitation of Mira Loma Space Center, Fontana 5N (Getchell), and Chase & Taylor Stations



## Average Monthly Precipitation (from 17 Stations) and August Prado Inflow - Water Year 1991 - 2001

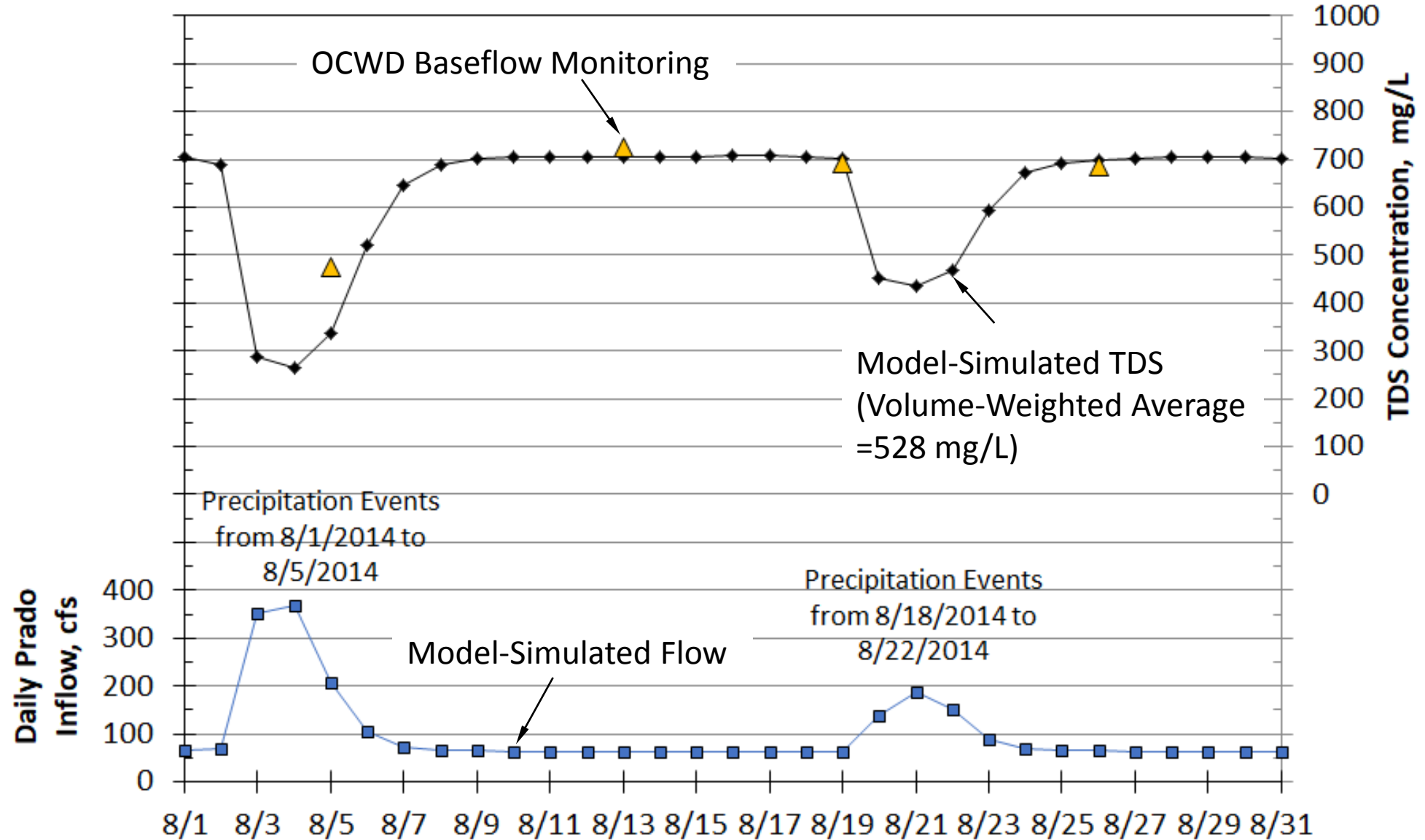


## Average Monthly Precipitation (from 17 Stations) and August Prado Inflow - Water Year 2002 - 2012

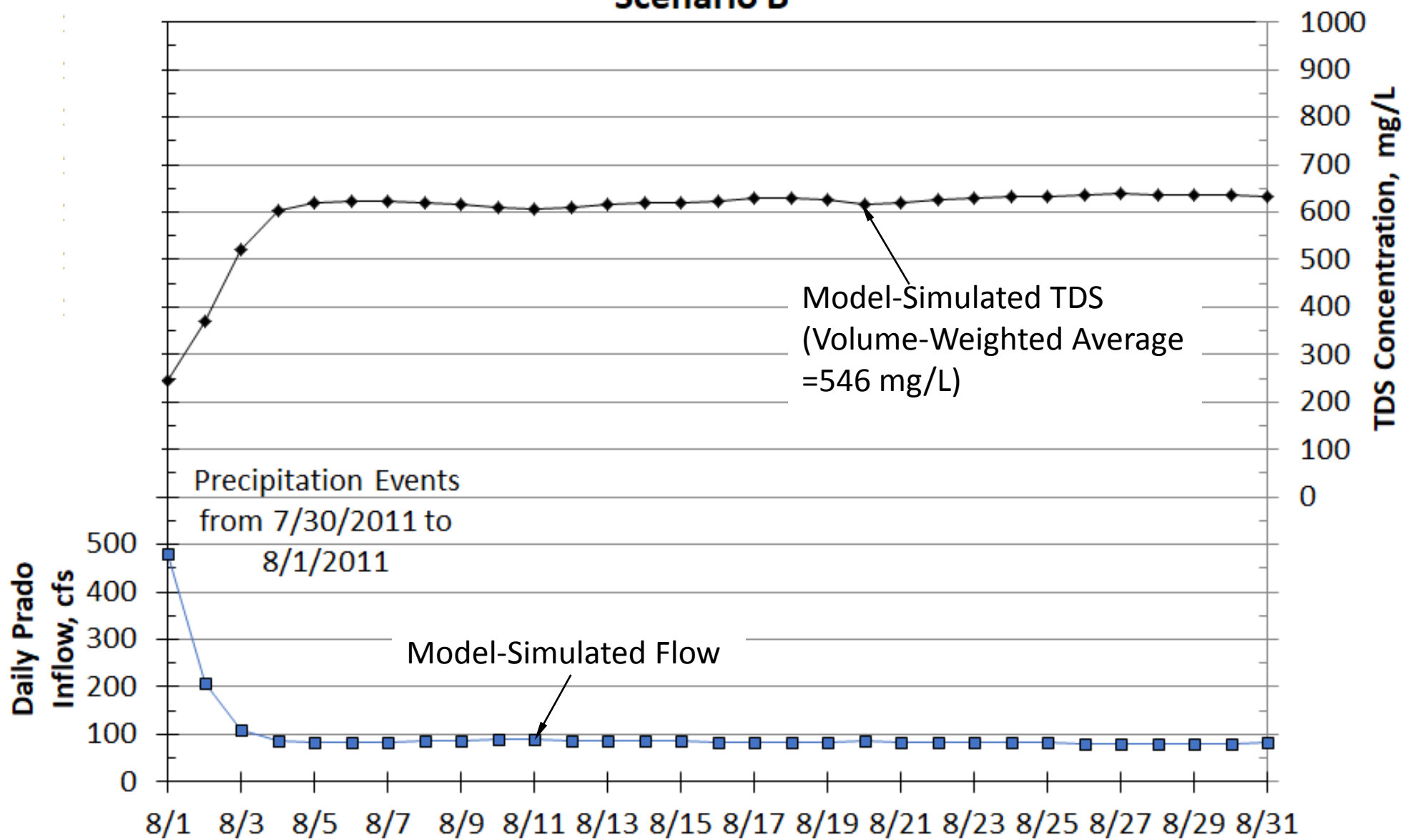




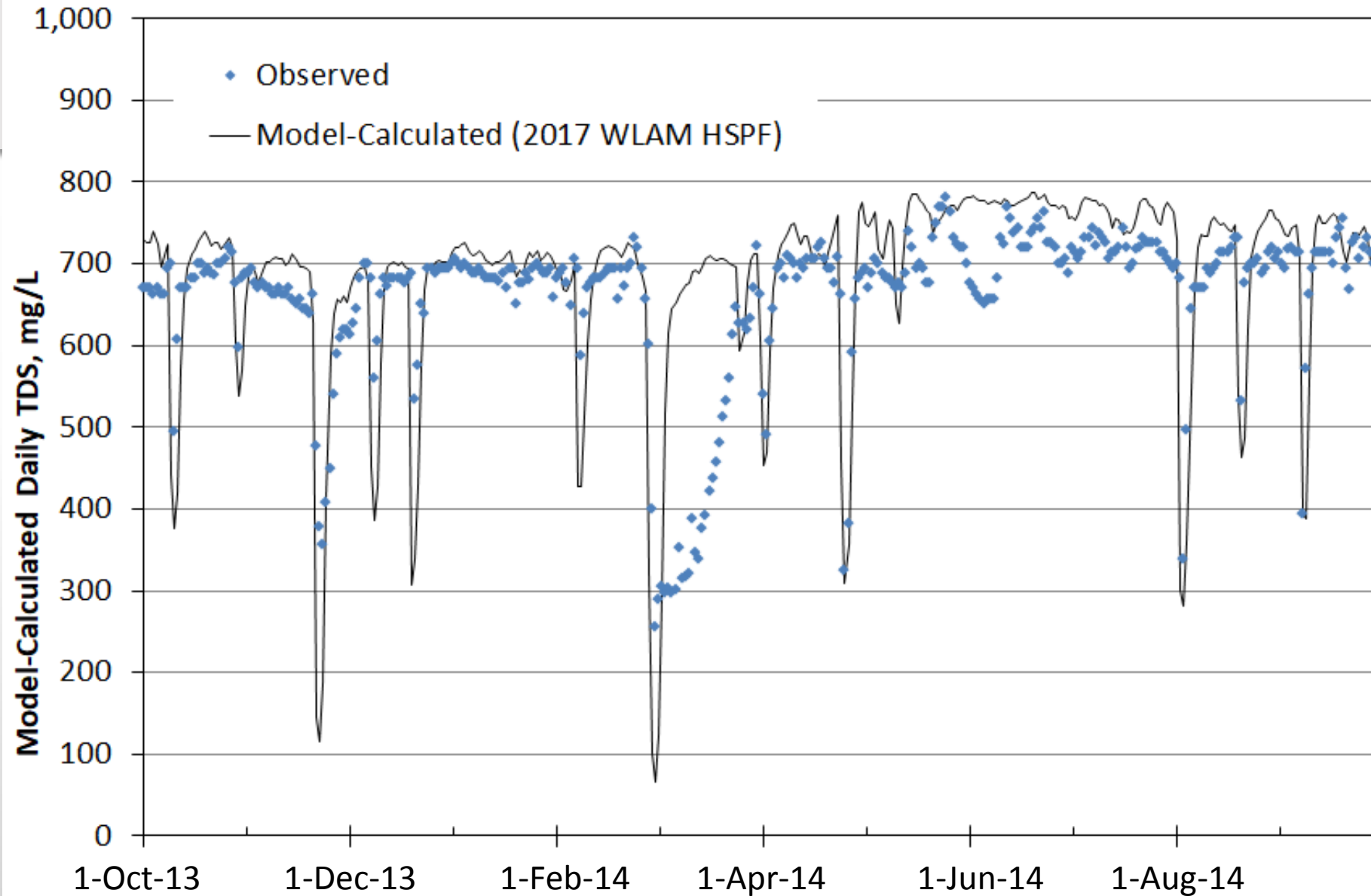
## Daily Prado Inflow and TDS Concentration August 2014 Scenario B



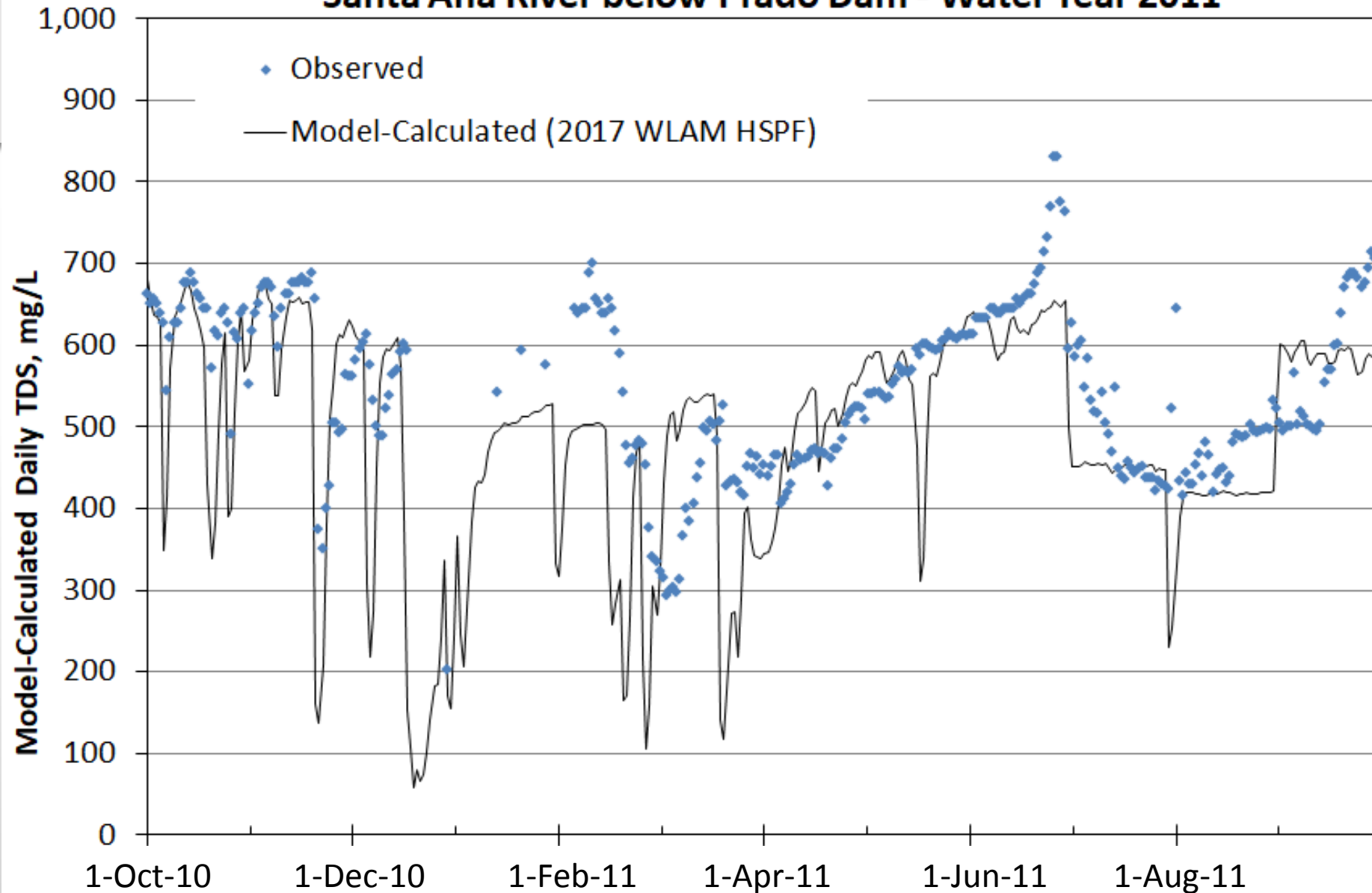
## Daily Prado Inflow and TDS Concentration August 2011 Scenario B



## Measured and Model-Simulated Daily TDS Concentrations at the Santa Ana River below Prado Dam - Water Year 2014



## Measured and Model-Simulated Daily TDS Concentrations at the Santa Ana River below Prado Dam - Water Year 2011



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# Next Steps

- Use recalibrated WLAM to analyze the six WLAM scenarios (Scenario B is complete)
- Conduct sensitivity run or mass balance to understand key issues
- Summarize stormwater diversion and spreading
- Submit Draft TM for Task 5 (Estimate Off-Channel Recharge from Natural Precipitation), Draft TM for Task 6 (Run the WLAM in Retrospective Model), and Draft Study Report at the end of June