

Chart 2-1. Historical Cachuma Project Deliveries (Lake and Tunnel)

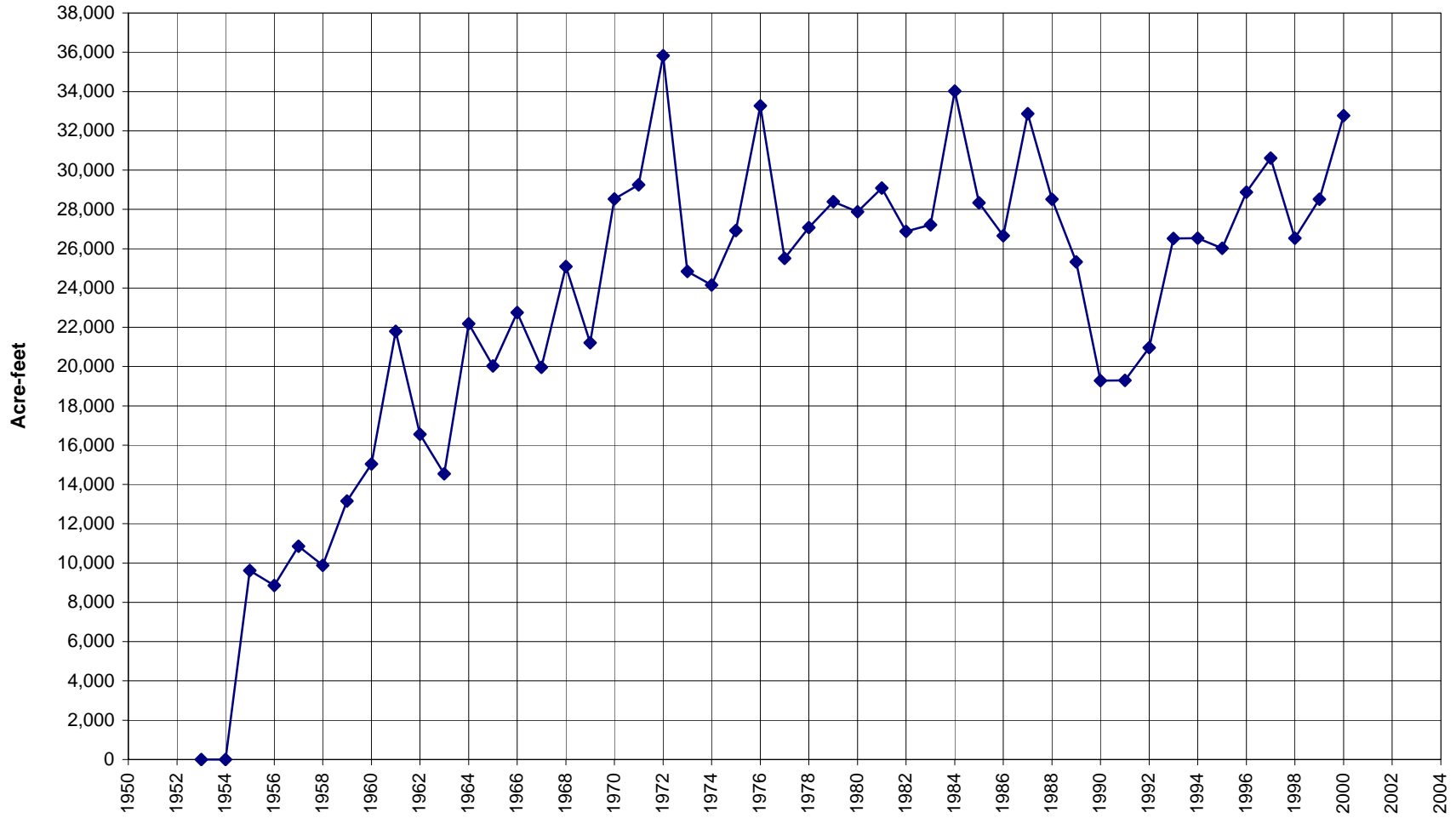
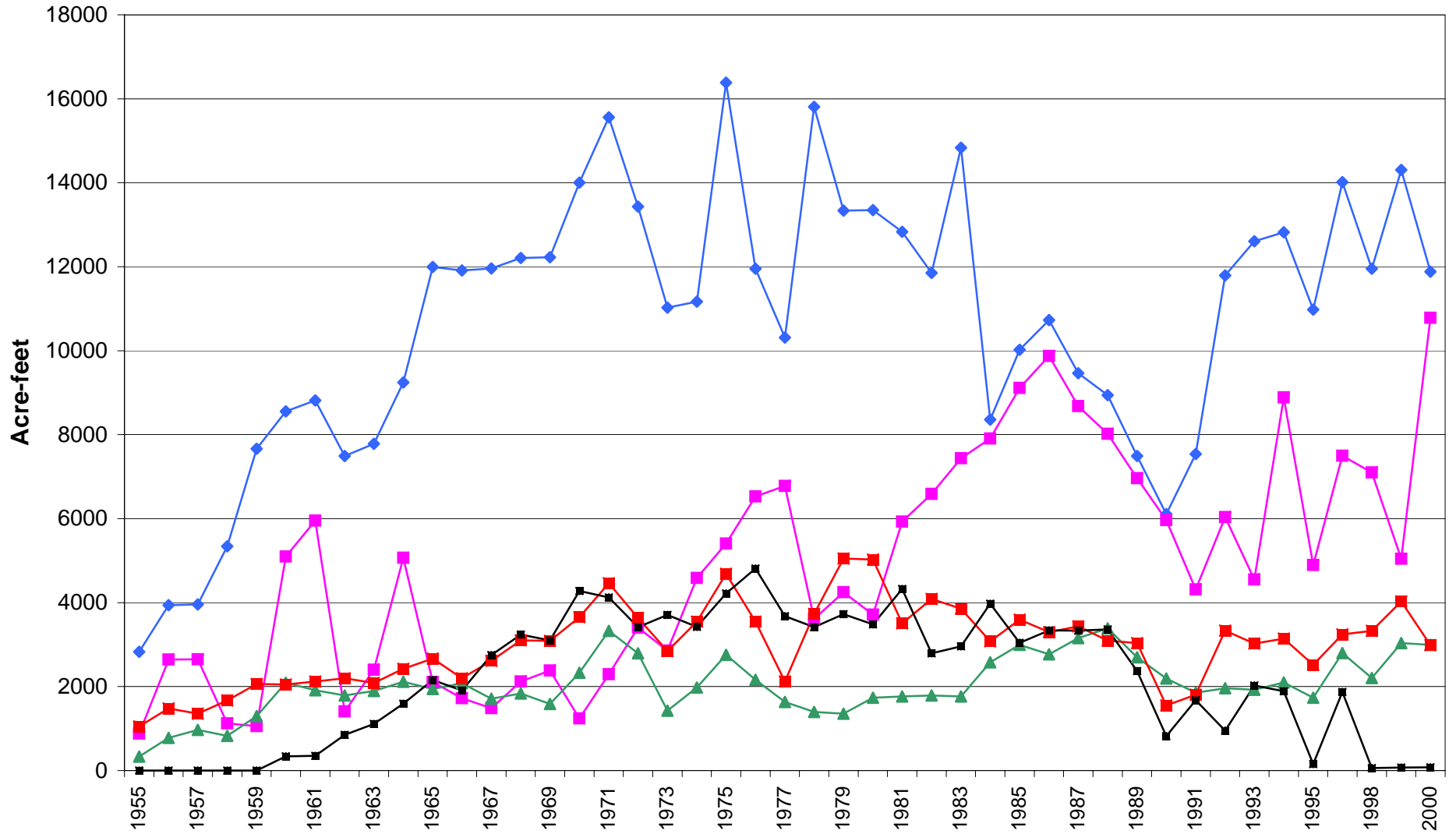


Chart 2-2 Historical Deliveries to the Cachuma Project Member Units



◆ Goleta
 ■ Santa Barbara
 ▲ Montecito*
 ■ Carpinteria
 ■ SYRWCD ID#1

Chart 2-3 Historical Annual ANA and BNA Releases under WR 89-18

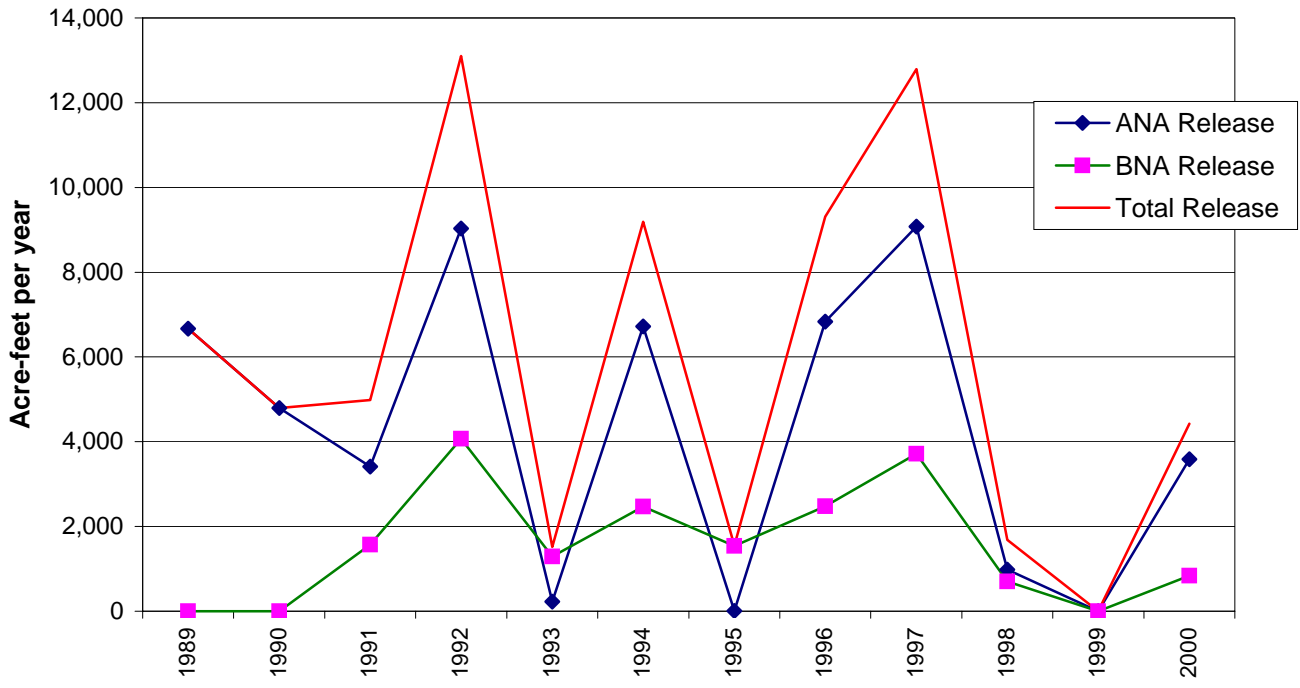


Chart 2-4 Historical Monthly WR 89-18 Water Rights and Fish Releases

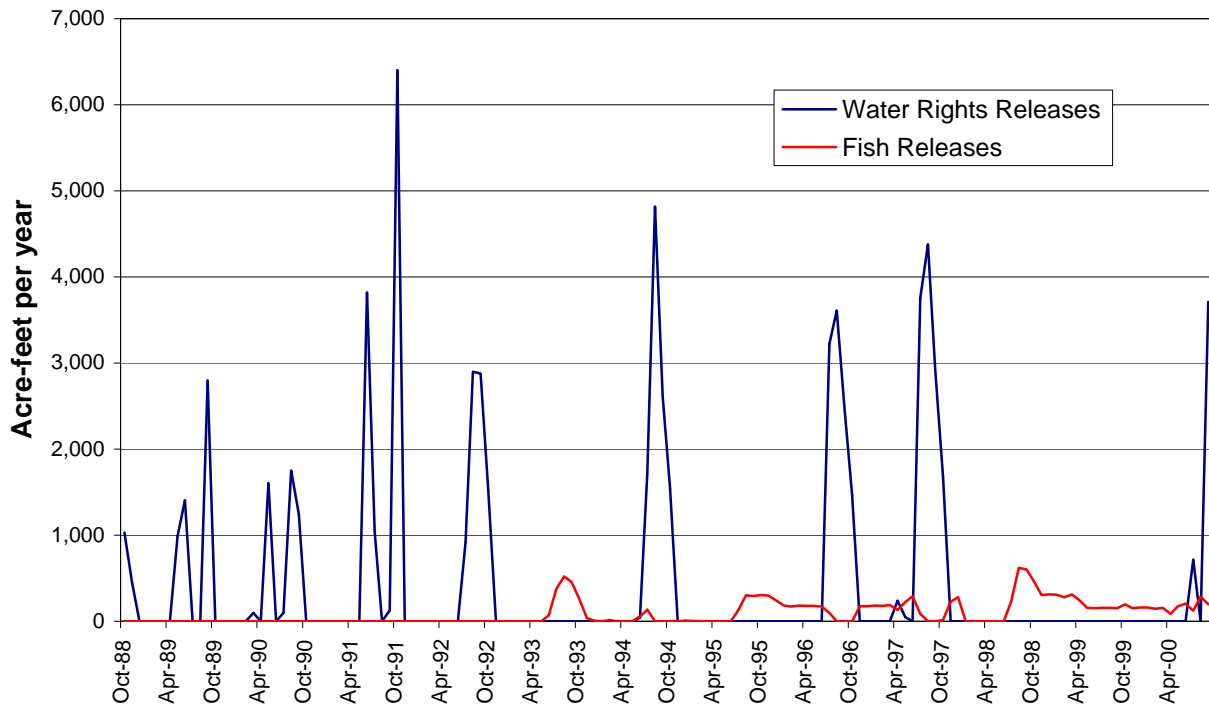


Chart 2-5. Simulated Shortages in SWP Water Deliveries

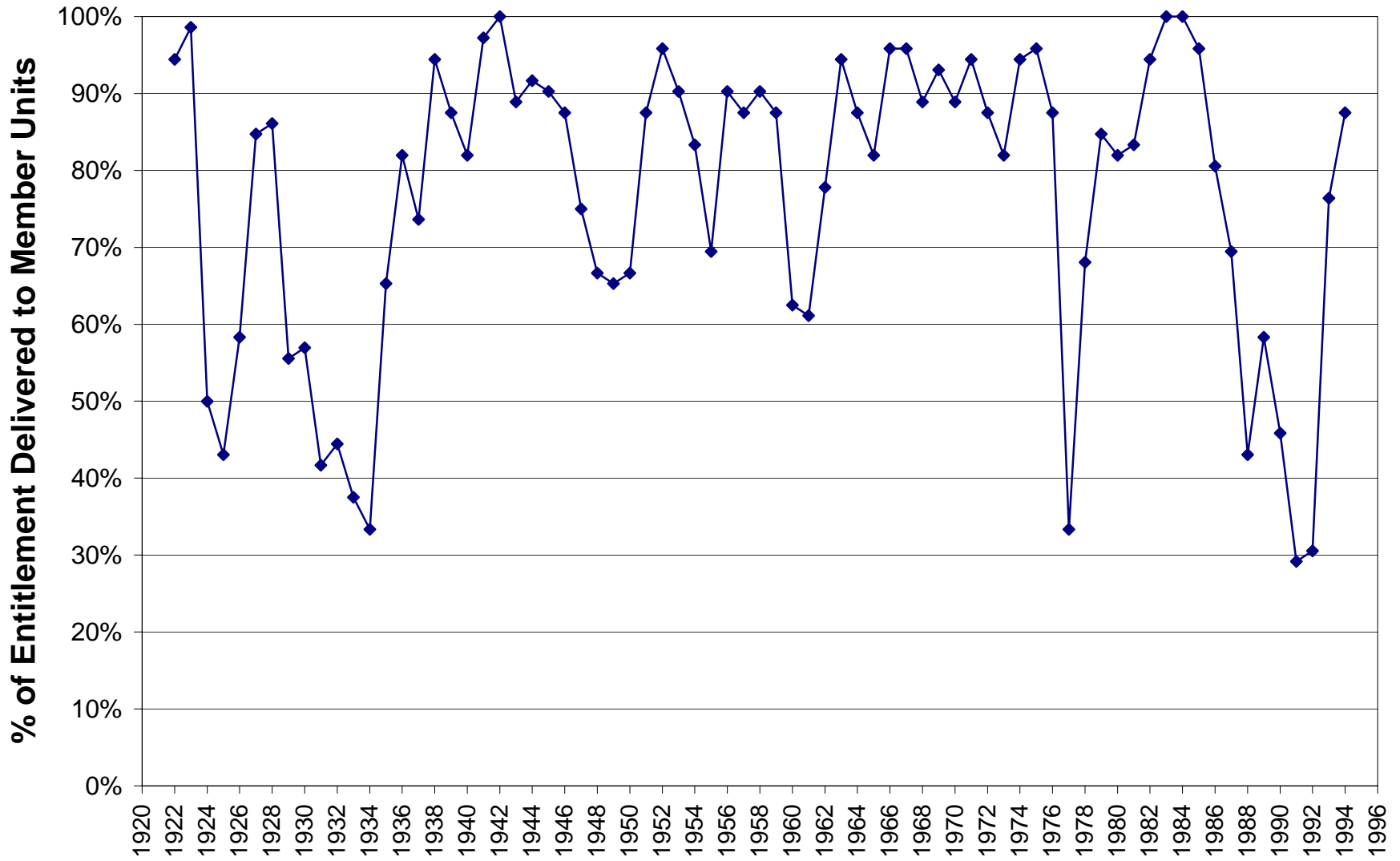


Chart 4-1
Average Monthly Rainfall Near Lake Cachuma

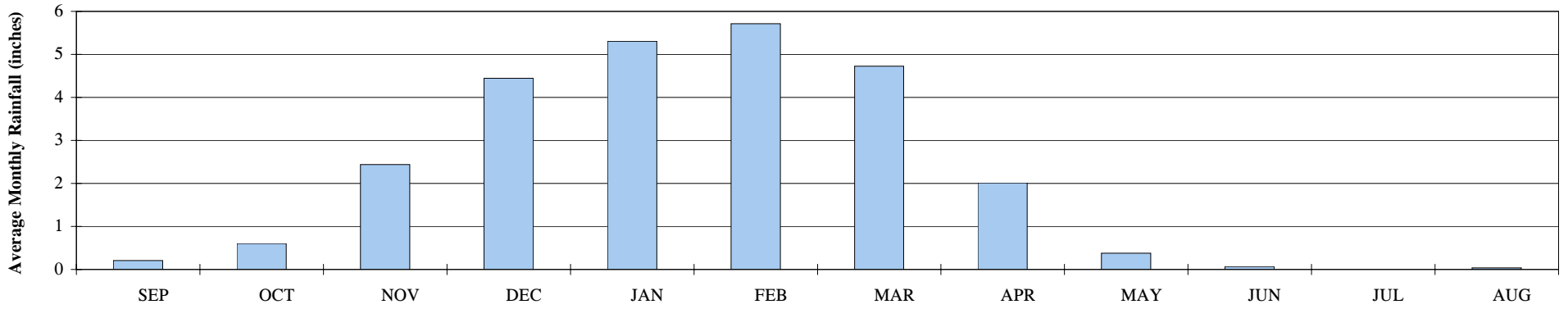


Chart 4-2
Historic Annual Rainfall Near Lake Cachuma

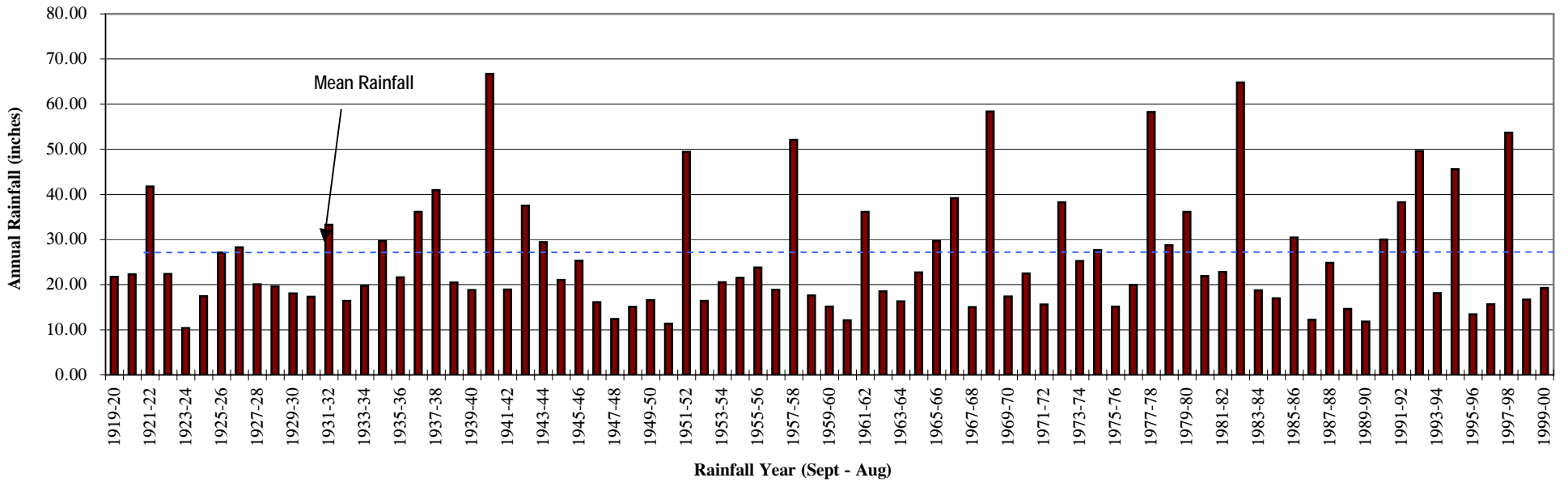


Chart 4-3 Historical Annual End of Summer Lake Storage

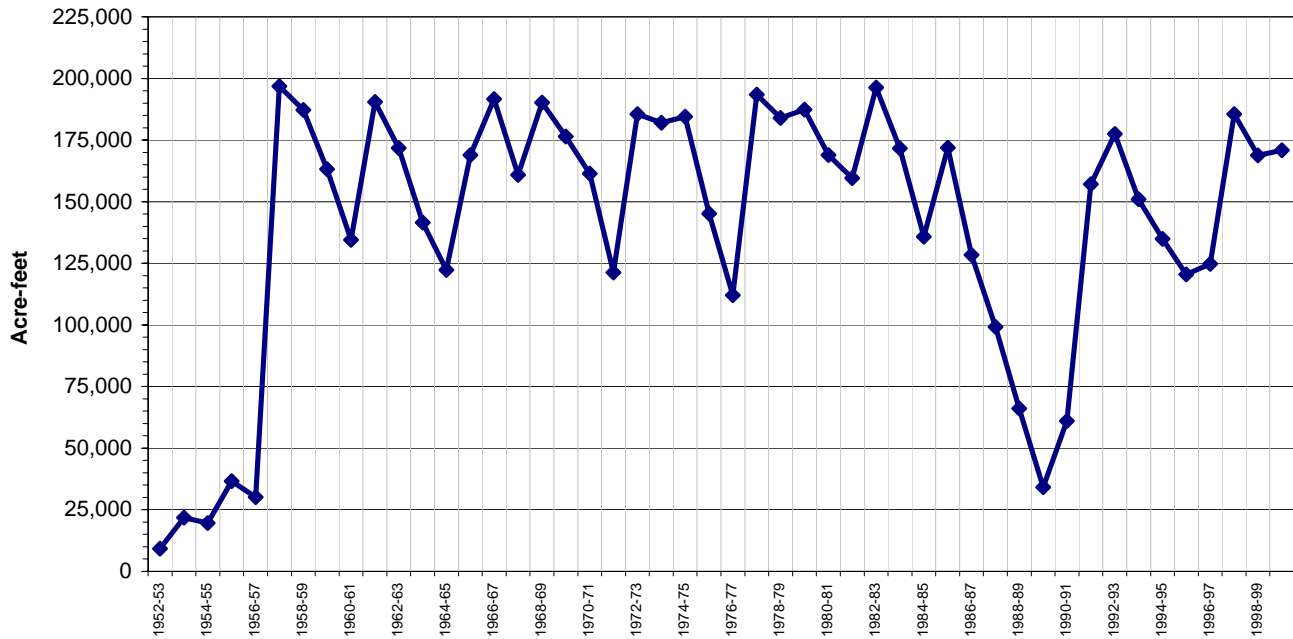
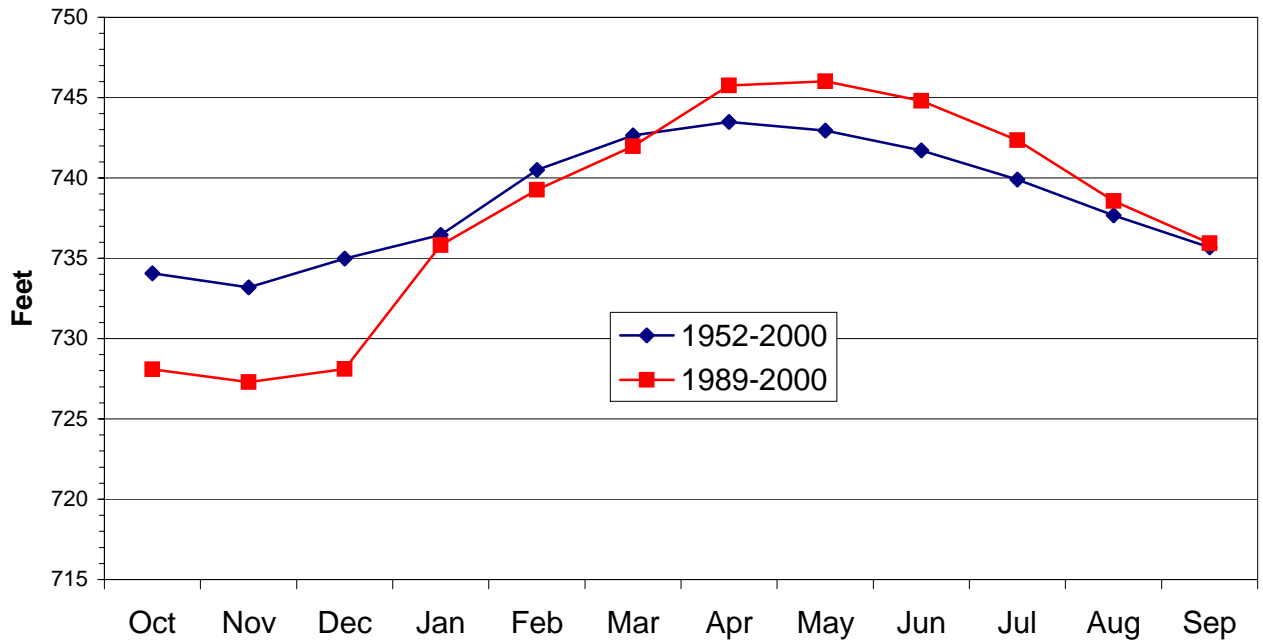
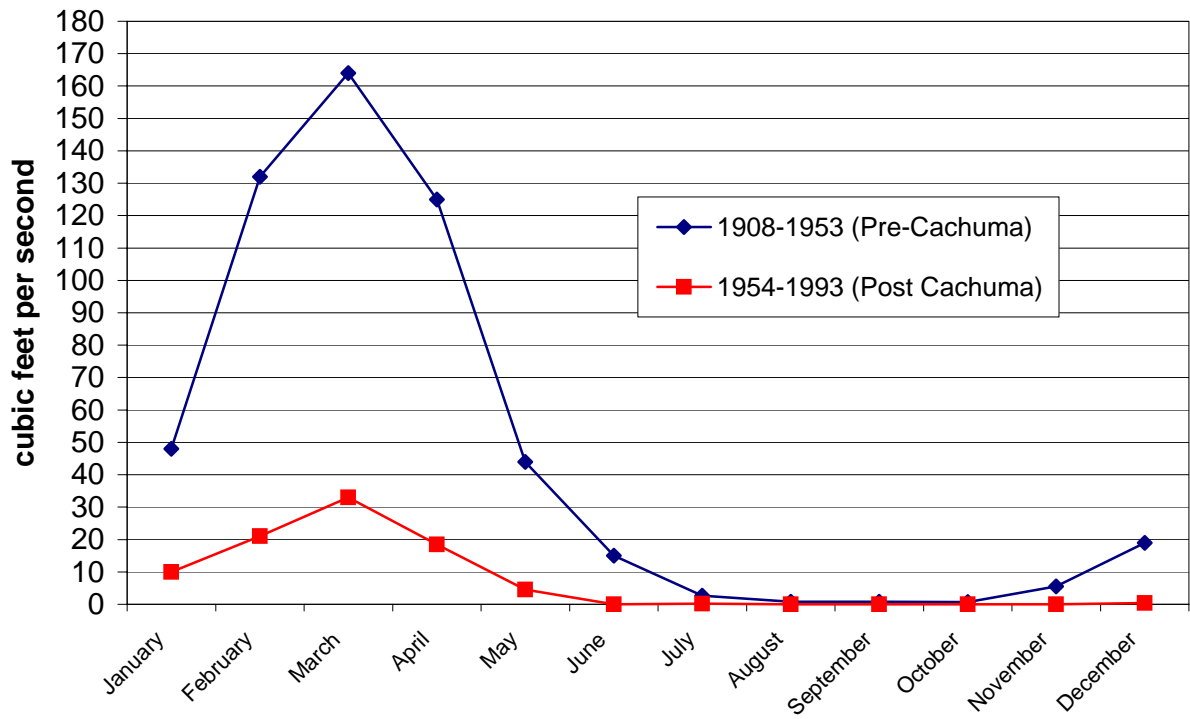


Chart 4-4 Historical Median Monthly Lake Elevations



**Chart 4-5. Historical Median Daily Streamflow
at the Narrows**



SIMULATED CACHUMA RESERVOIR STORAGE FOR VARIOUS EIR ALTERNATIVES USING SYRHM0498

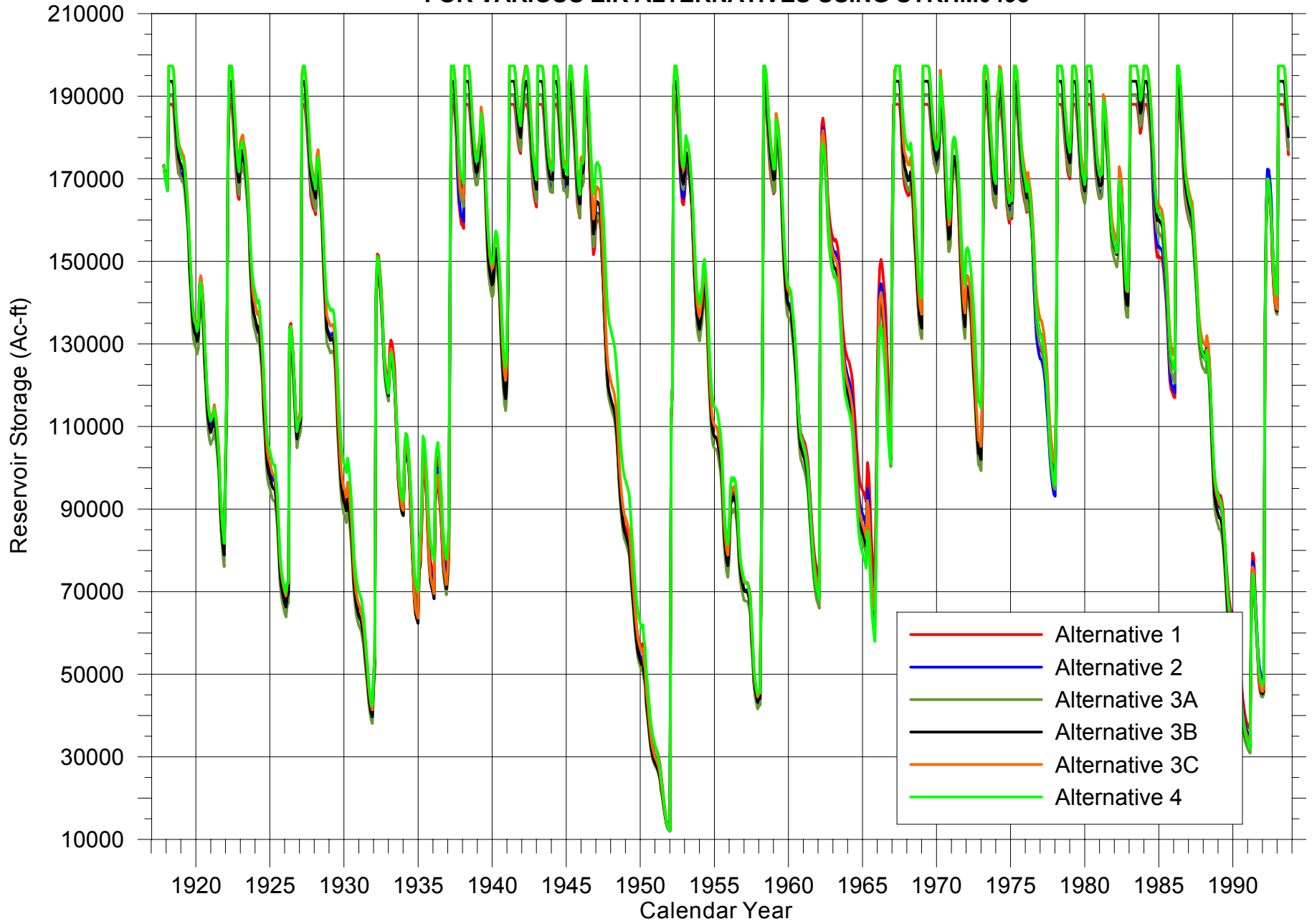


Chart 4-7 Median Monthly Lake Elevations (Simulation, 1918-93)

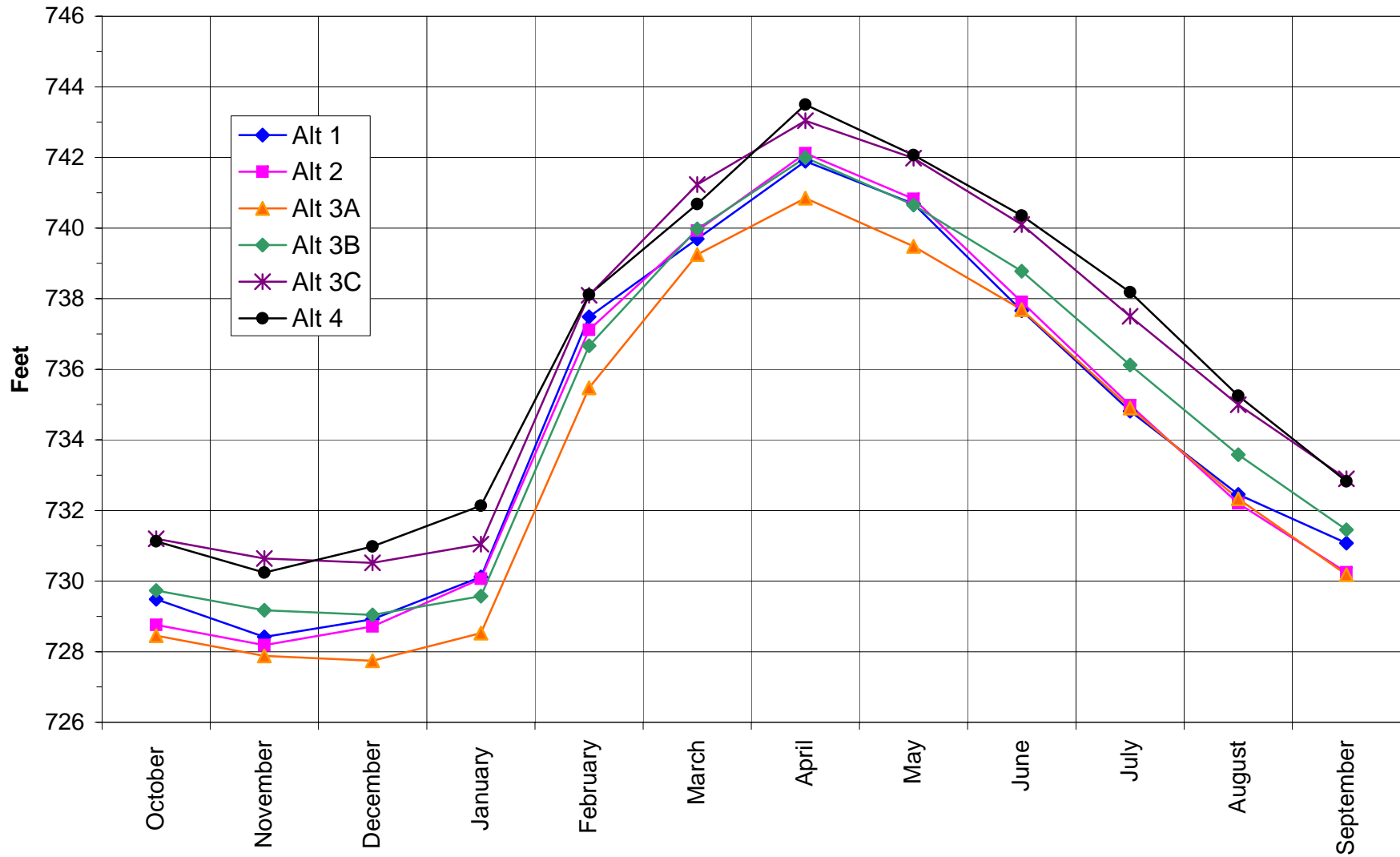


CHART 4-8. MEDIAN MONTHLY STREAMFLOW BELOW LAKE CACHUMA

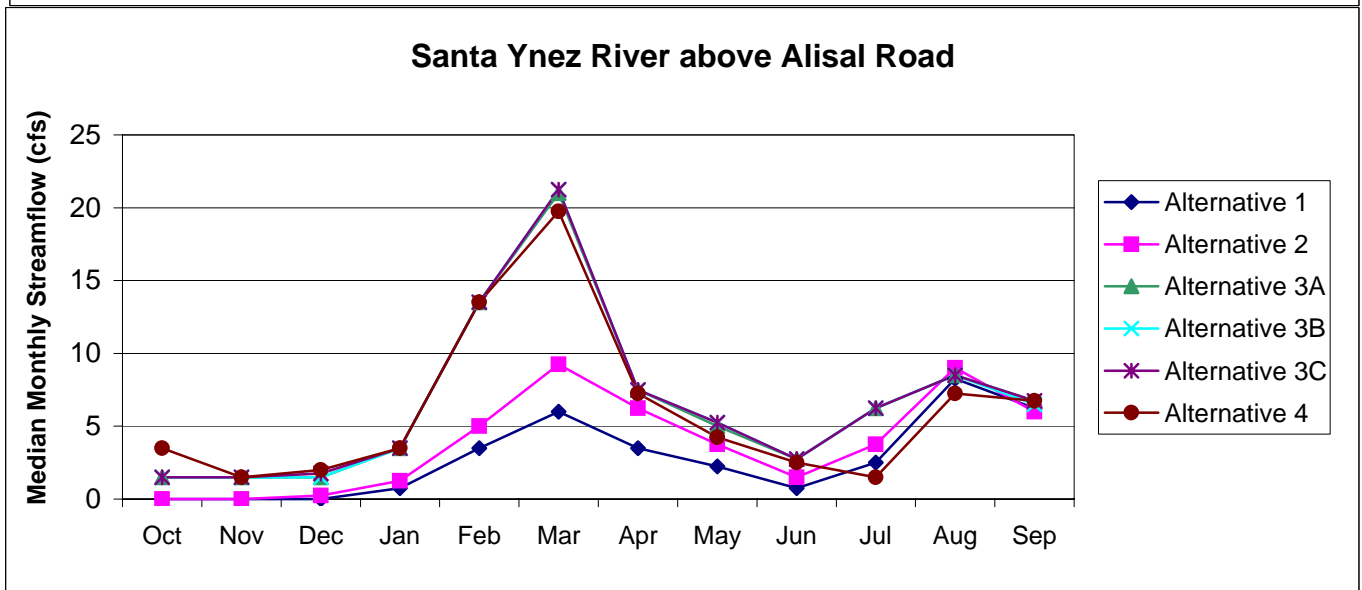
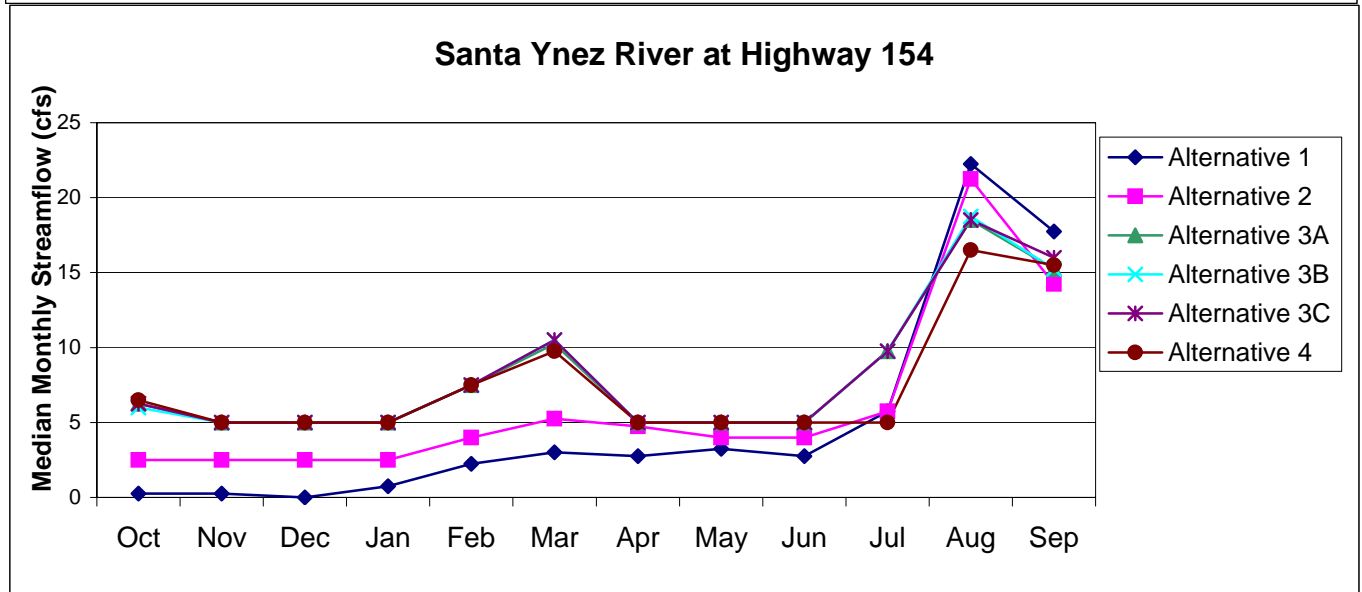
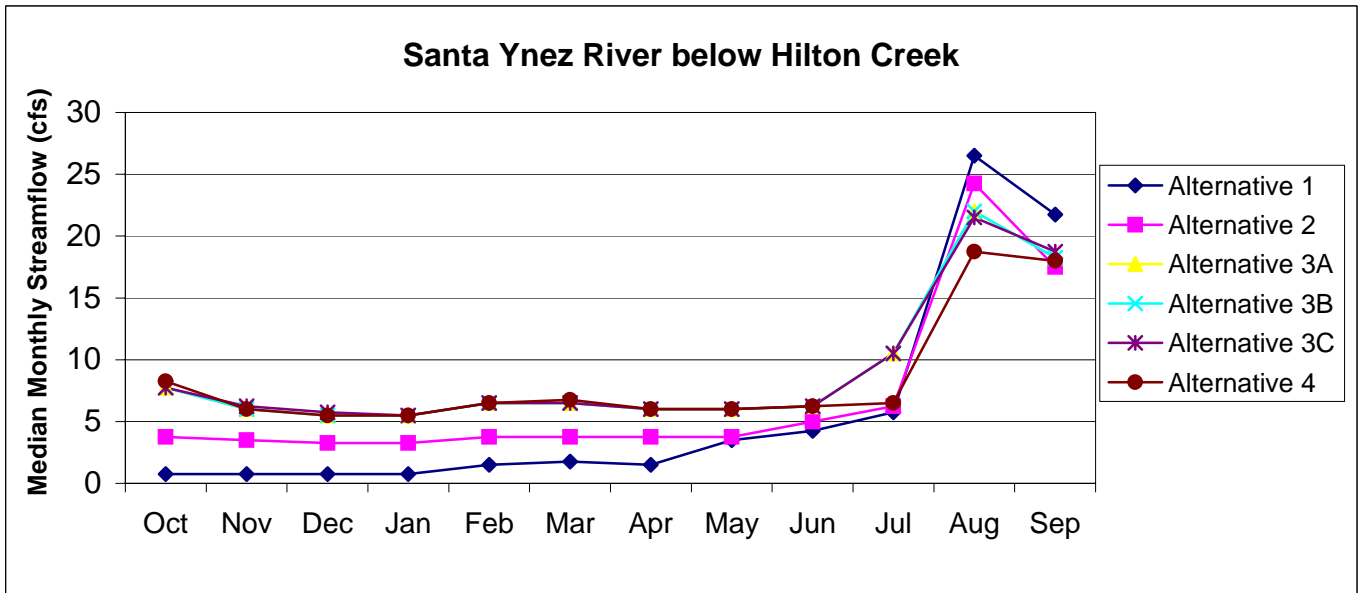


CHART 4-8. MEDIAN MONTHLY STREAMFLOW BELOW LAKE CACHUMA

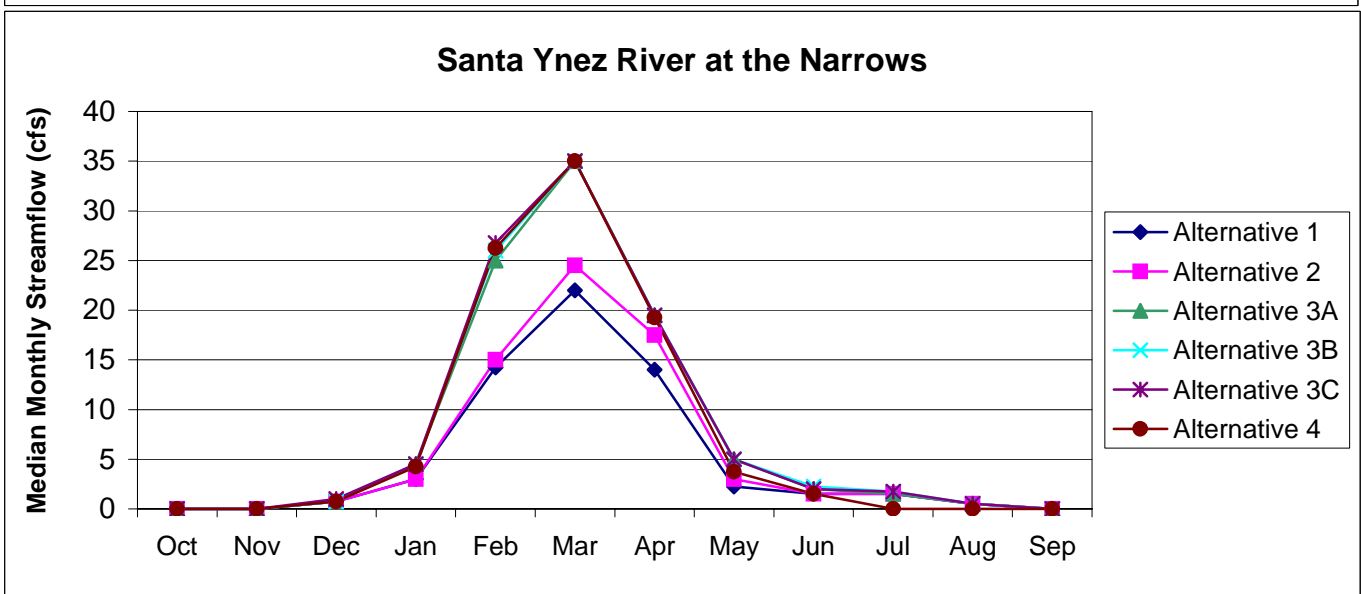
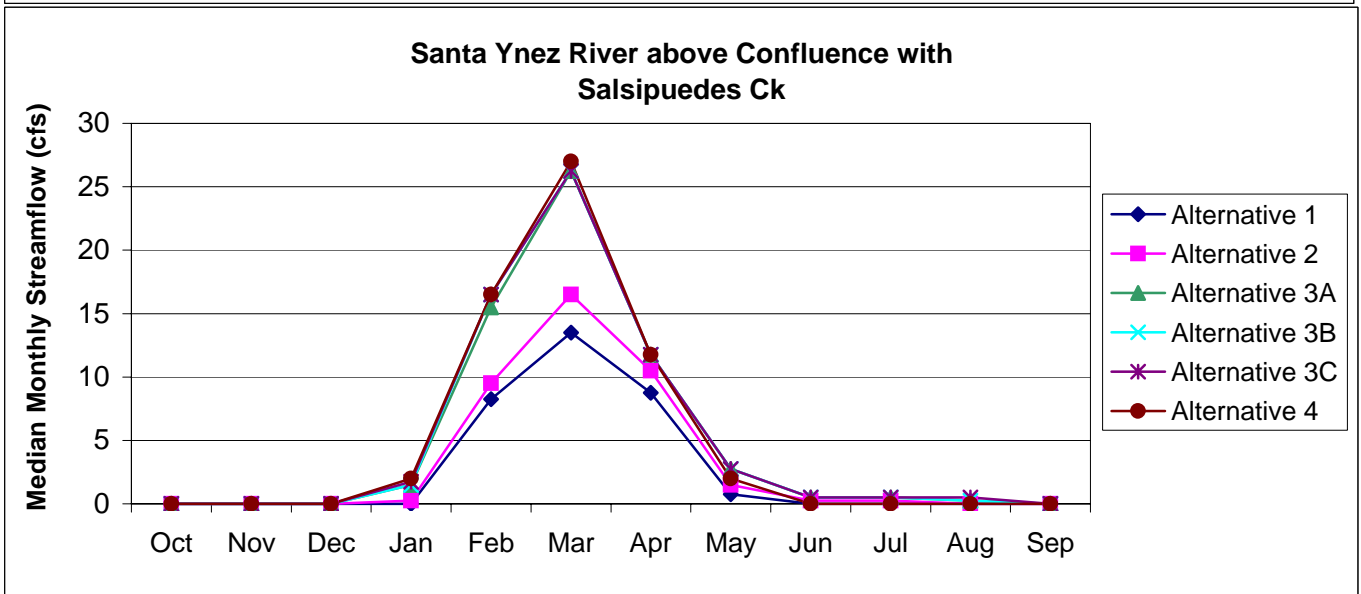
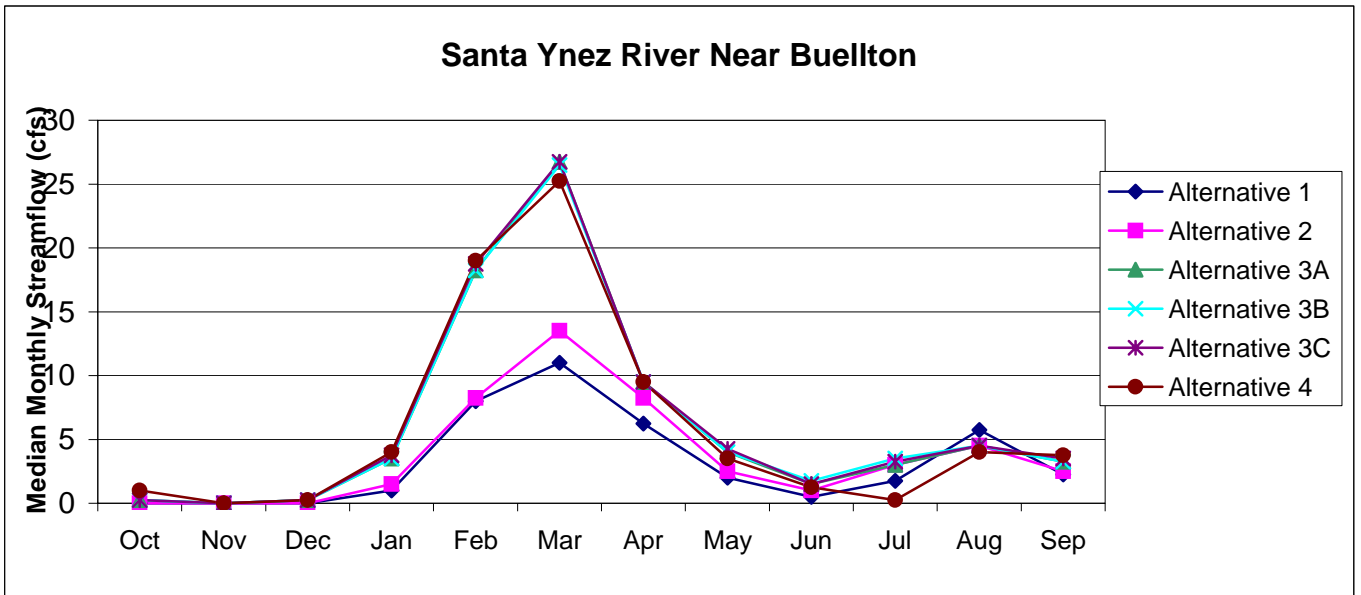
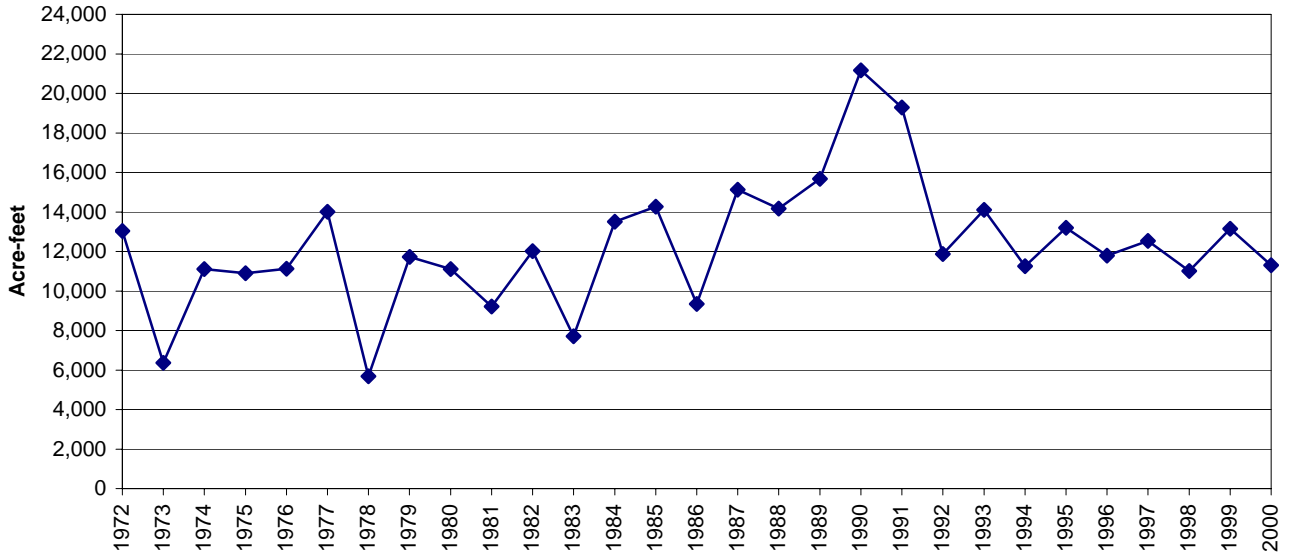
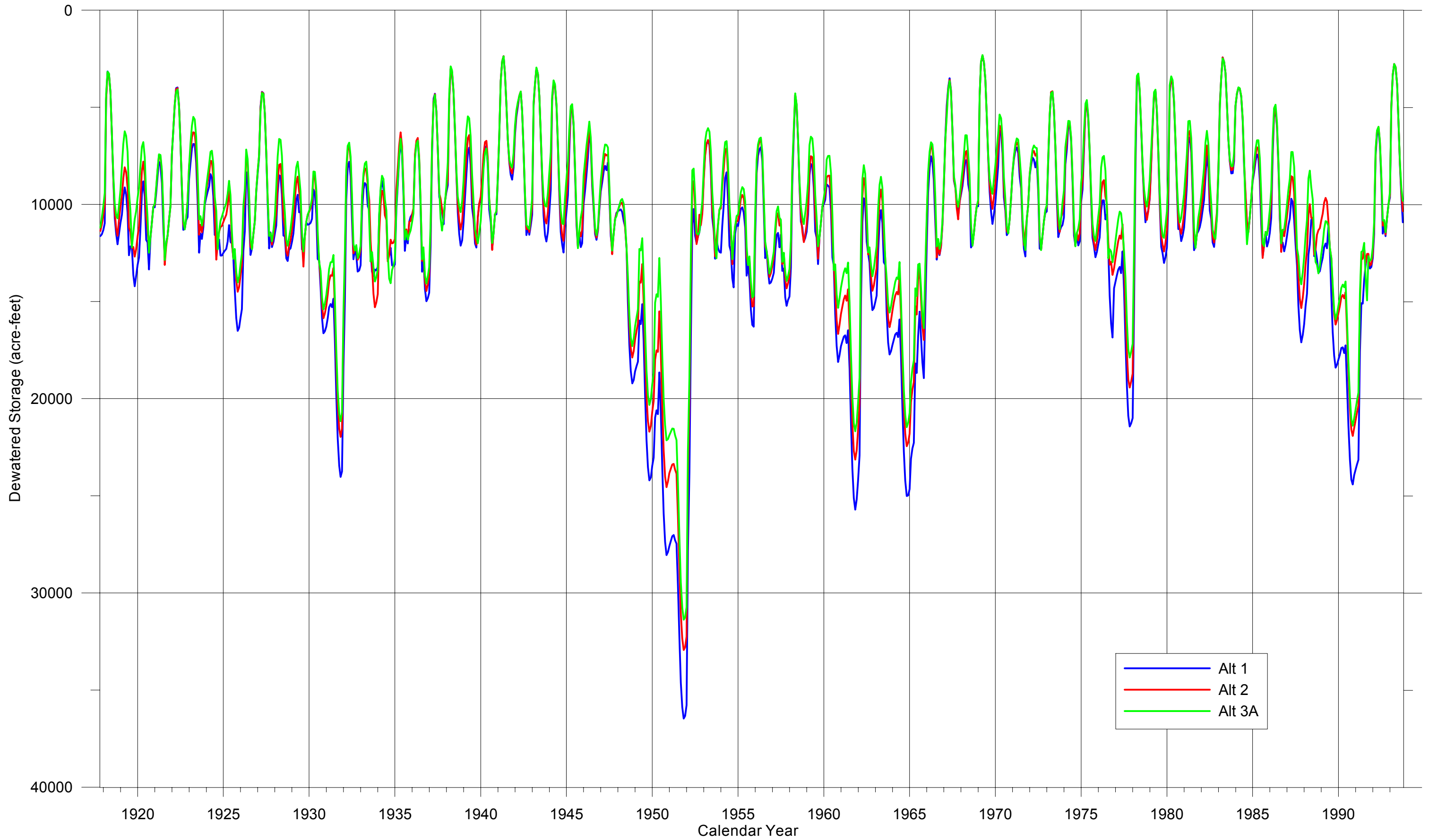


Chart 4-9 Annual Dewatered Storage in the Above Narrows Alluvial Basin





Alt 1
Alt 2
Alt 3A

Chart 4-10a. Total Dewatered Storage for the Above Narrows Aquifer (Simulation)

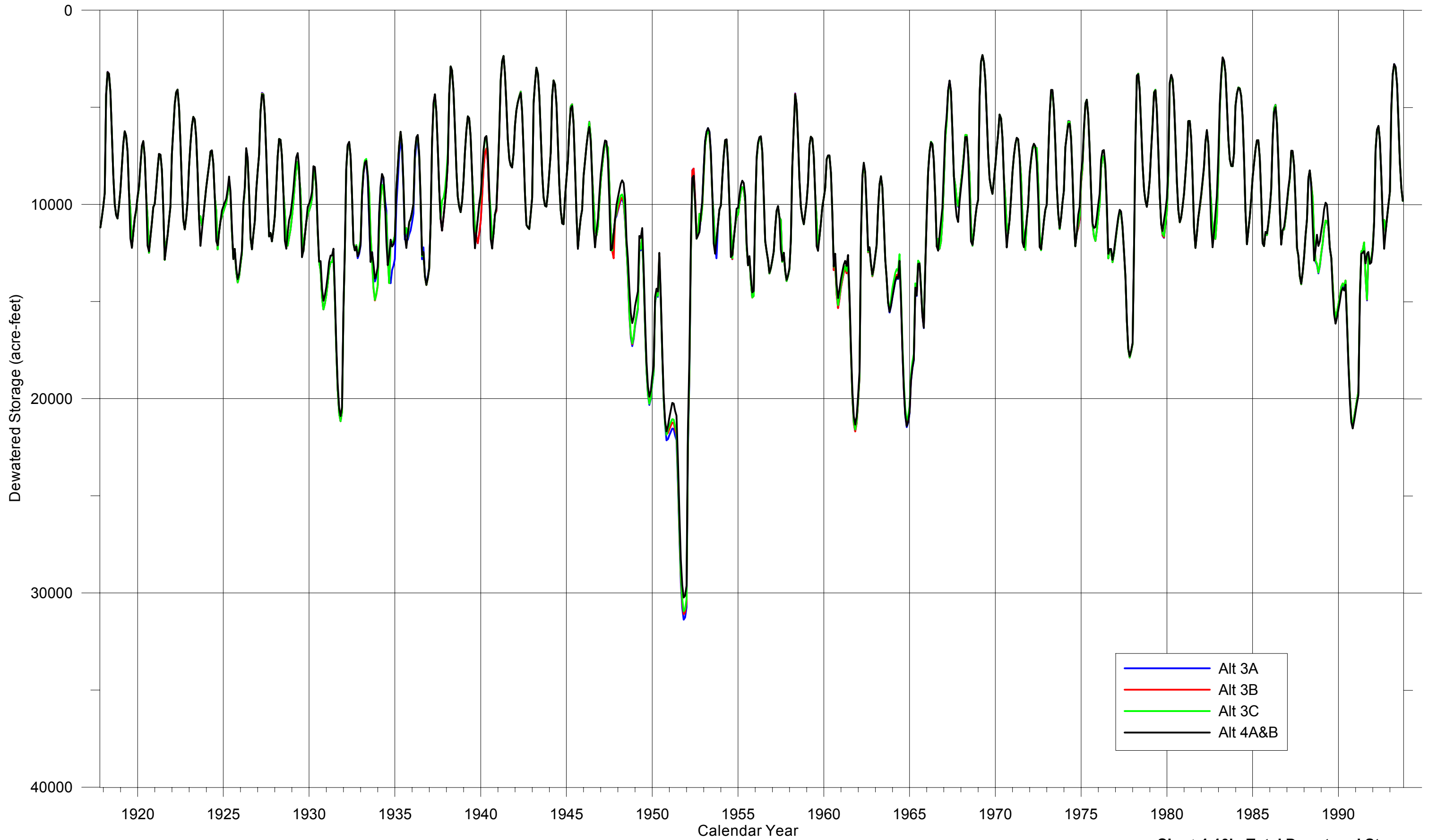
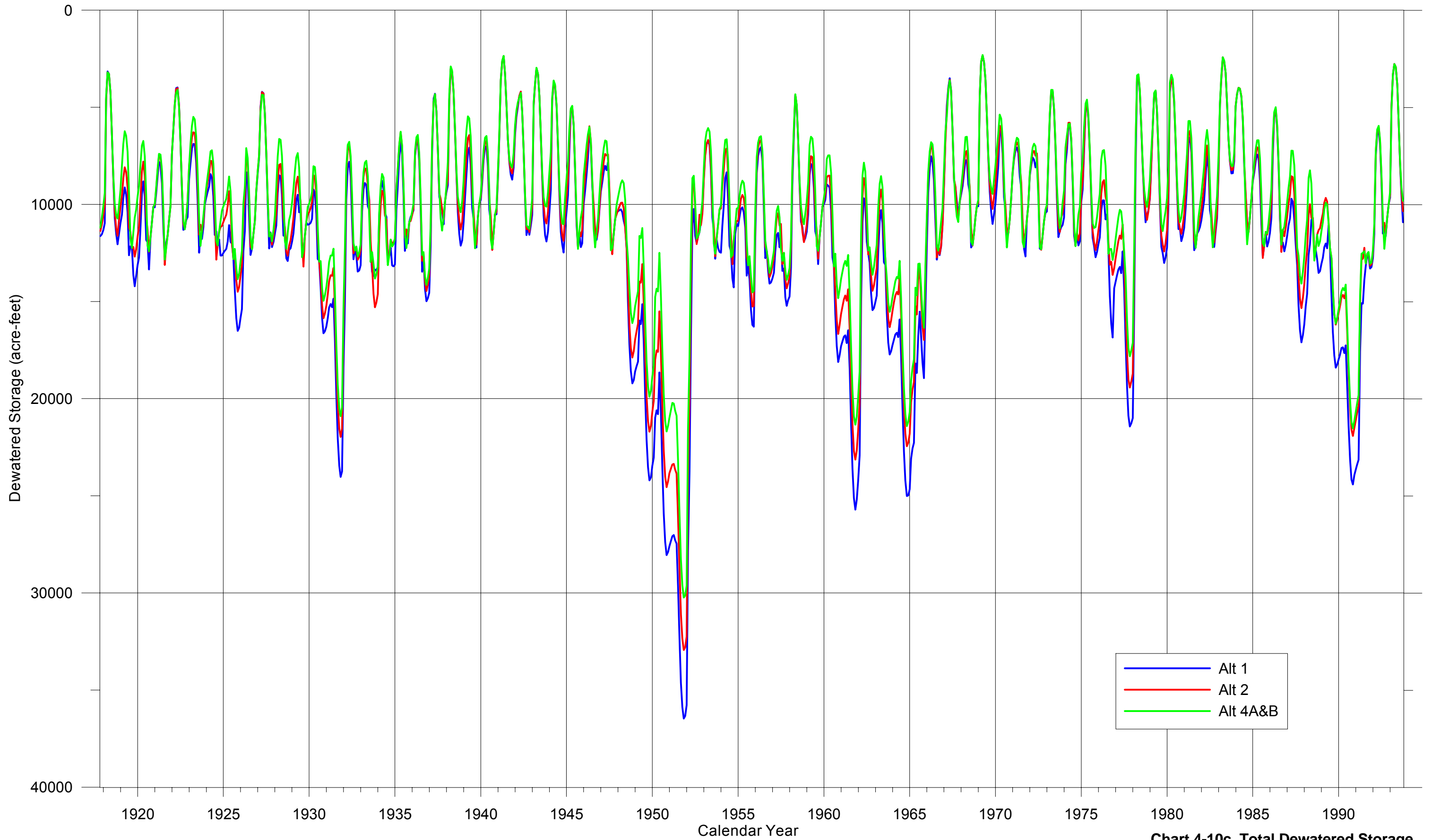


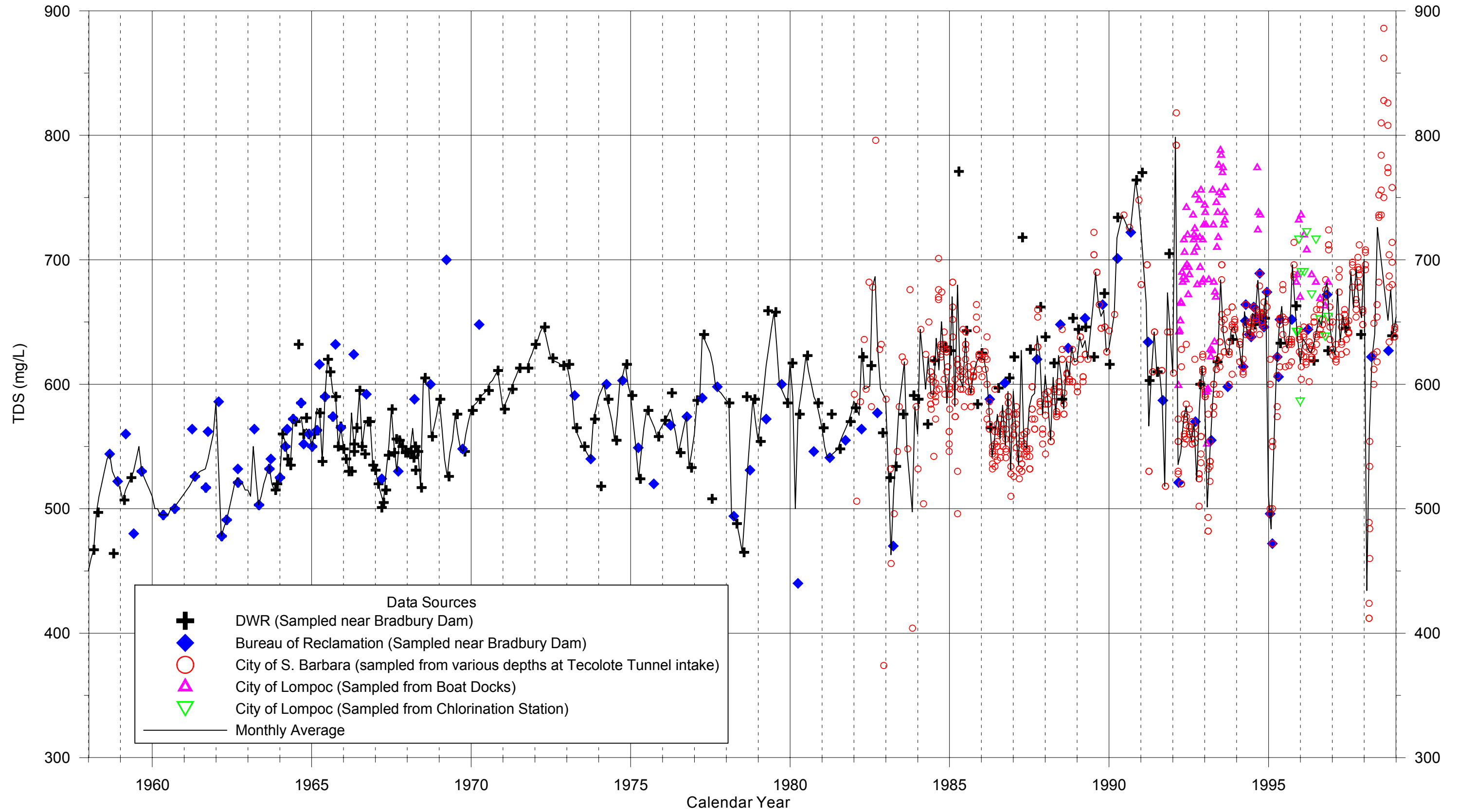
Chart 4-10b. Total Dewatered Storage for the Above Narrows Aquifer (Simulation)



Alt 1
Alt 2
Alt 4A&B

Chart 4-10c. Total Dewatered Storage for the Above Narrows Aquifer (Simulation)

Lake Cachuma Total Dissolved Solids (TDS) 1958 through 1998



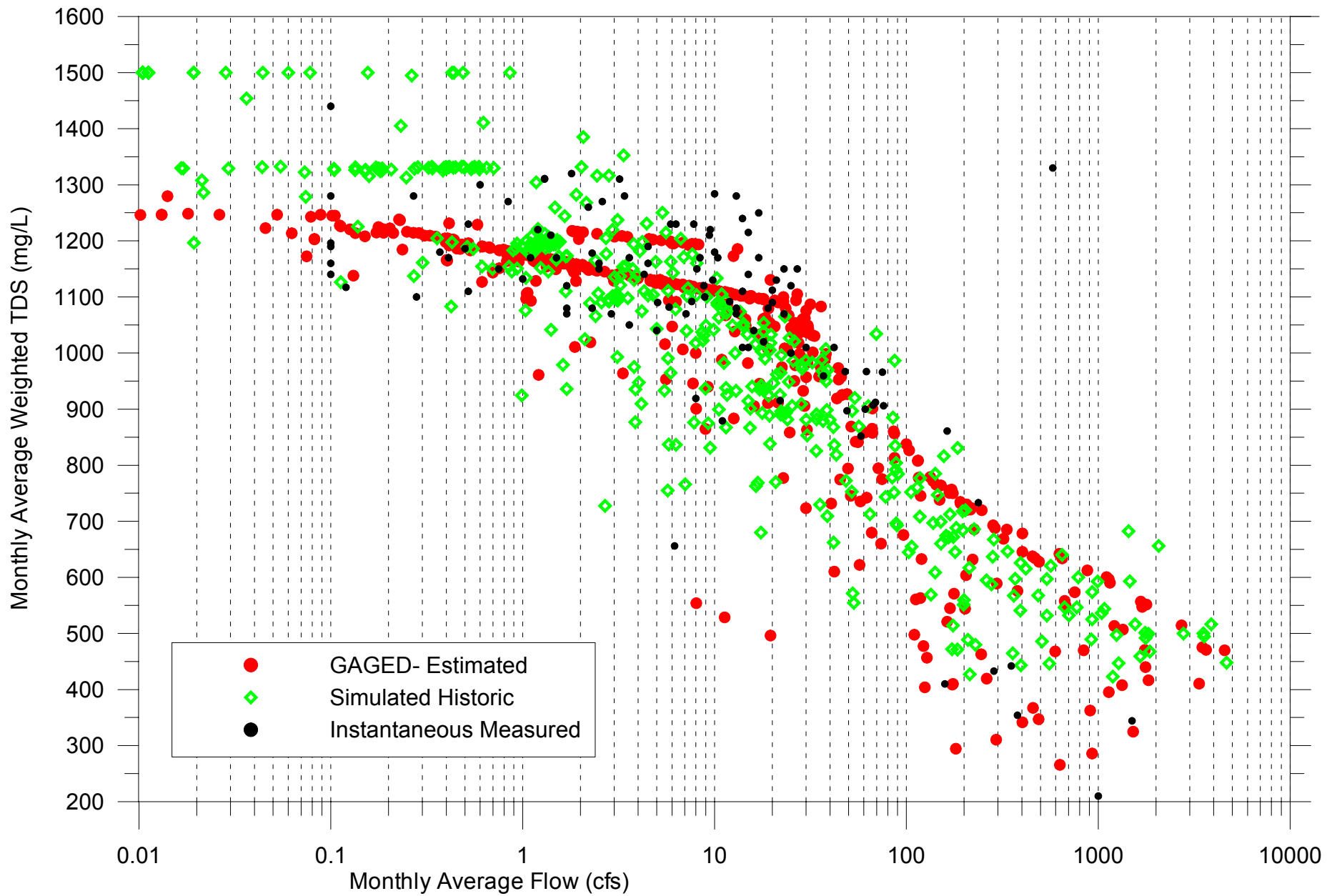


Chart 4-12. TDS-Flow Relationship at the Narrows

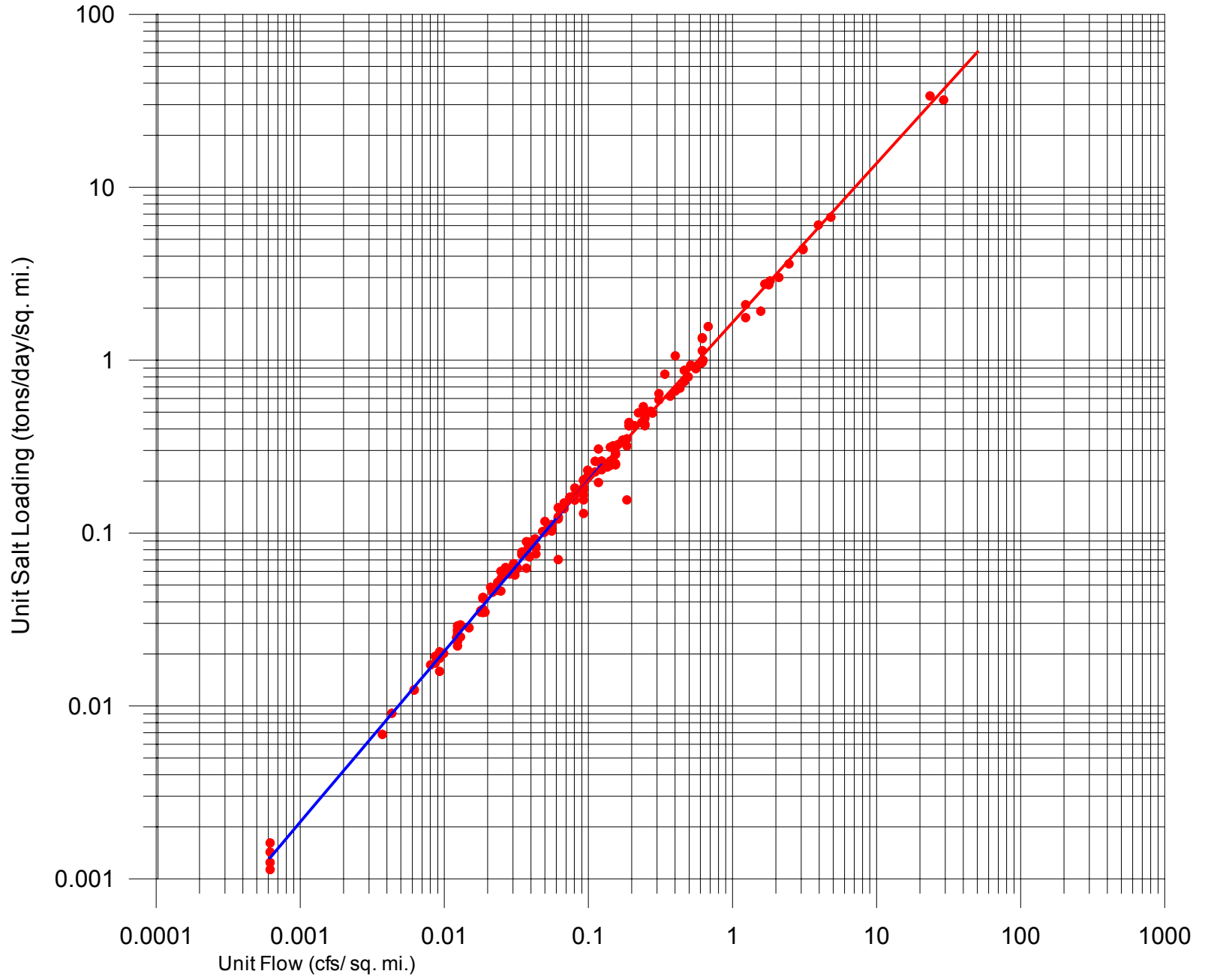


Chart 4-13. Example of Salt Loading-Flow Data at Solvang

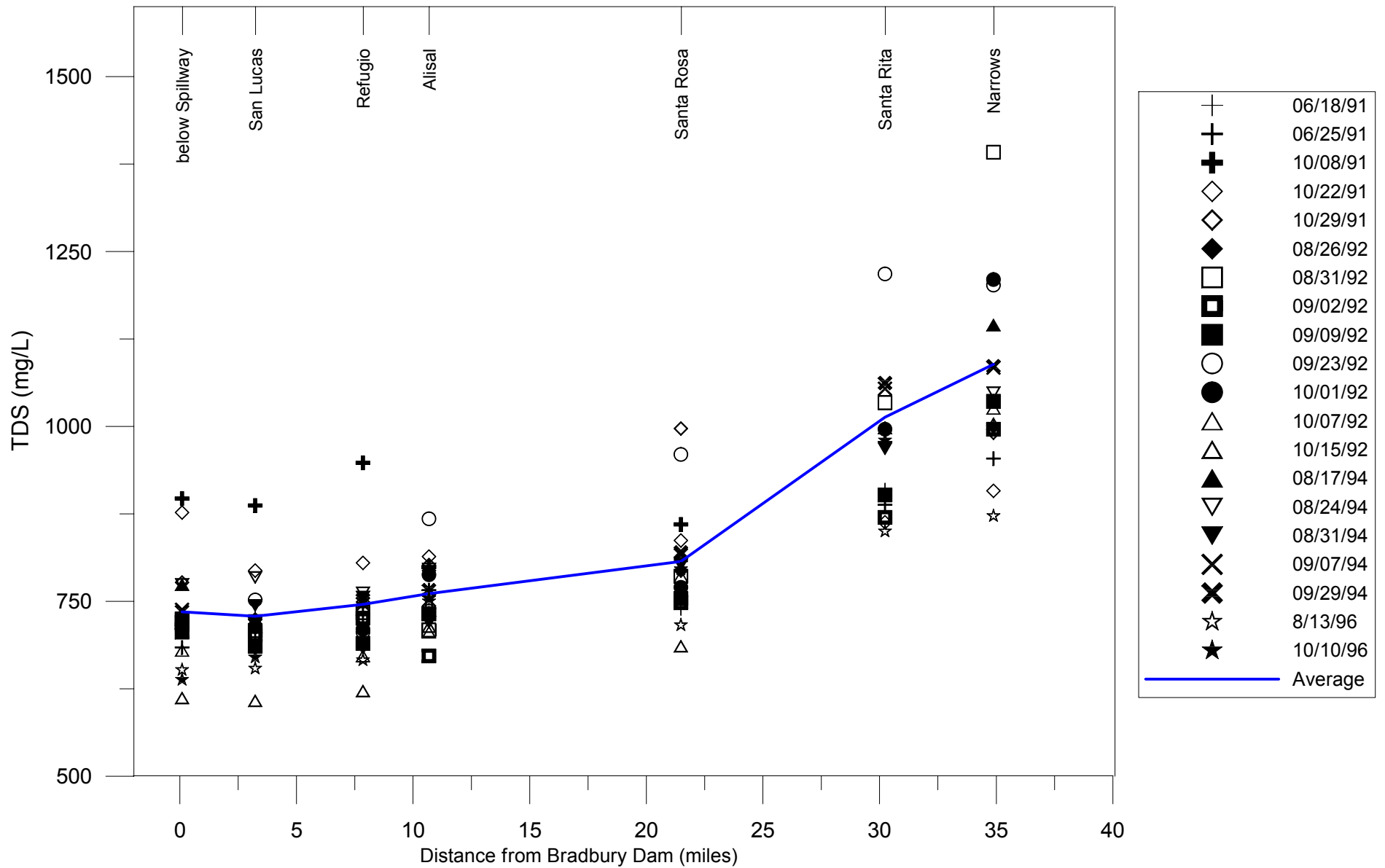


Chart 4-14. TDS Measurements During WR 89-18 Releases

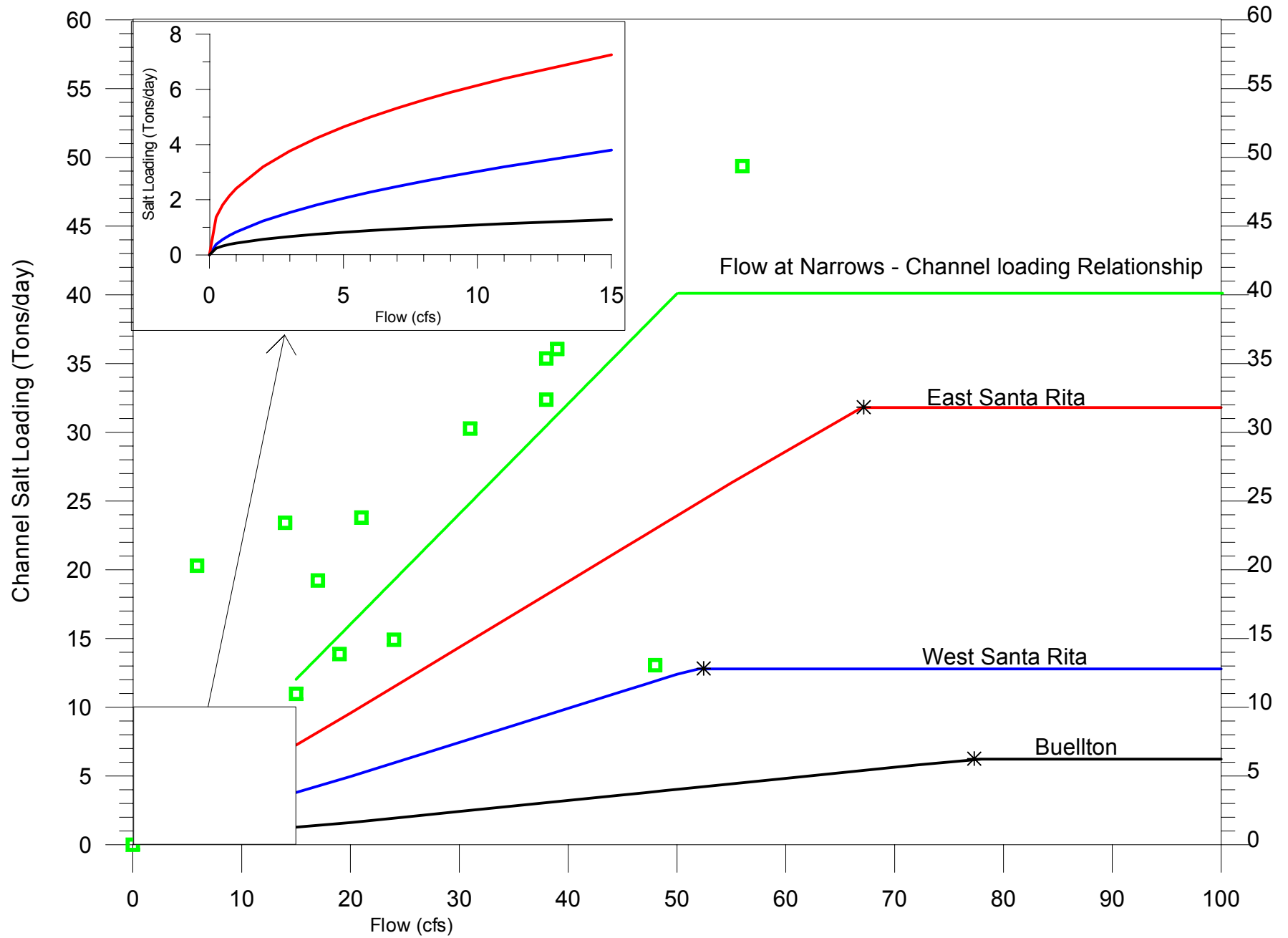


Chart 4-15. Relationship Between Salt Loading and Flows at the Narrows

Note: Results from EIR Alternative#3C is plotted here; Alternatives 3A and 3B are very similar to 3C for Cachuma TDS

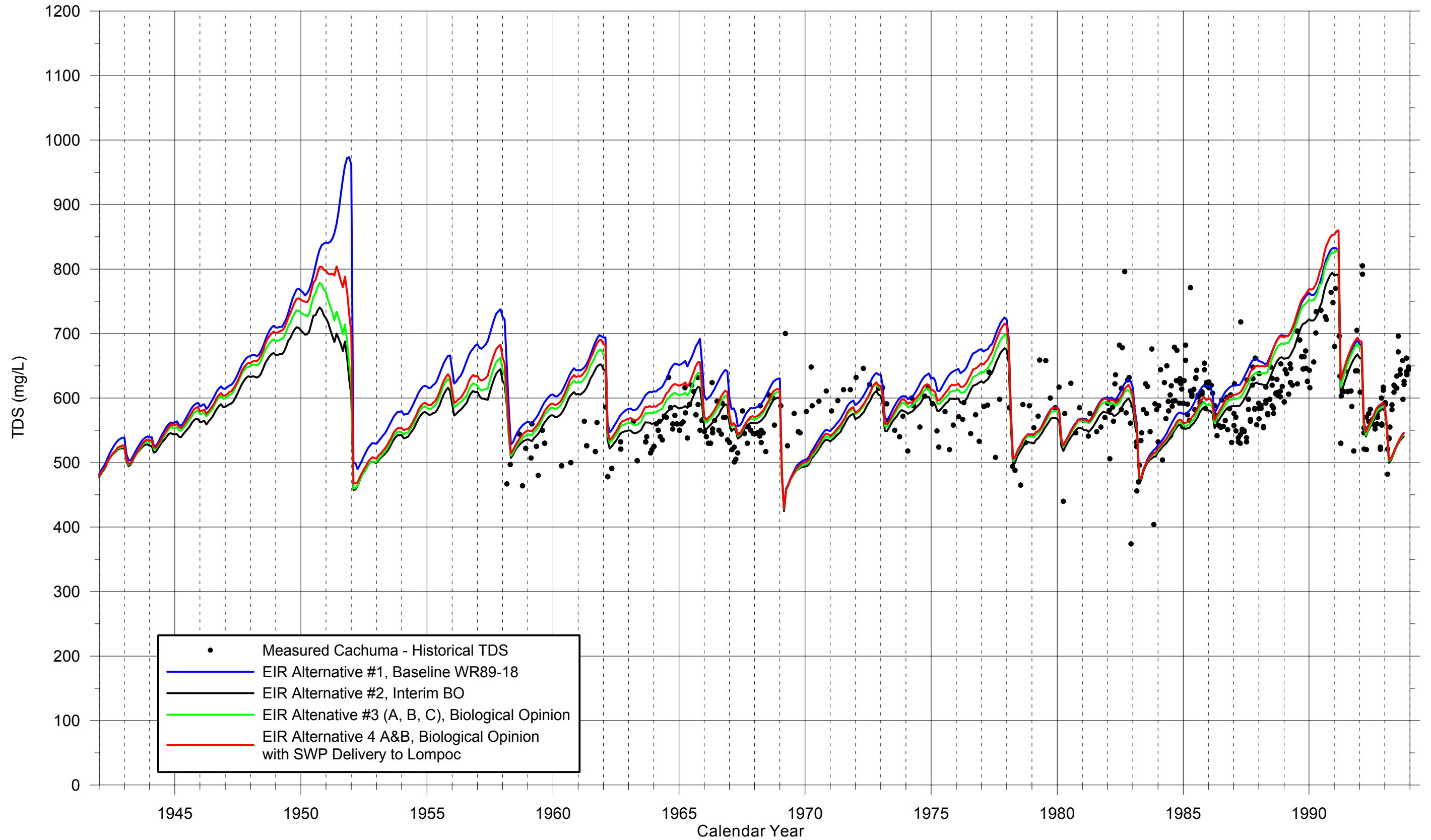


Chart 4-16. Predicted Lake Cachuma TDS (Simulation)

- 1) Results from EIR Alternative 3C are plotted here; Alts 3A and 3B are very similar to Alt 3C for Narrows TDS
- 2) Water right release TDS for ANA releases are shown here for 4A&B

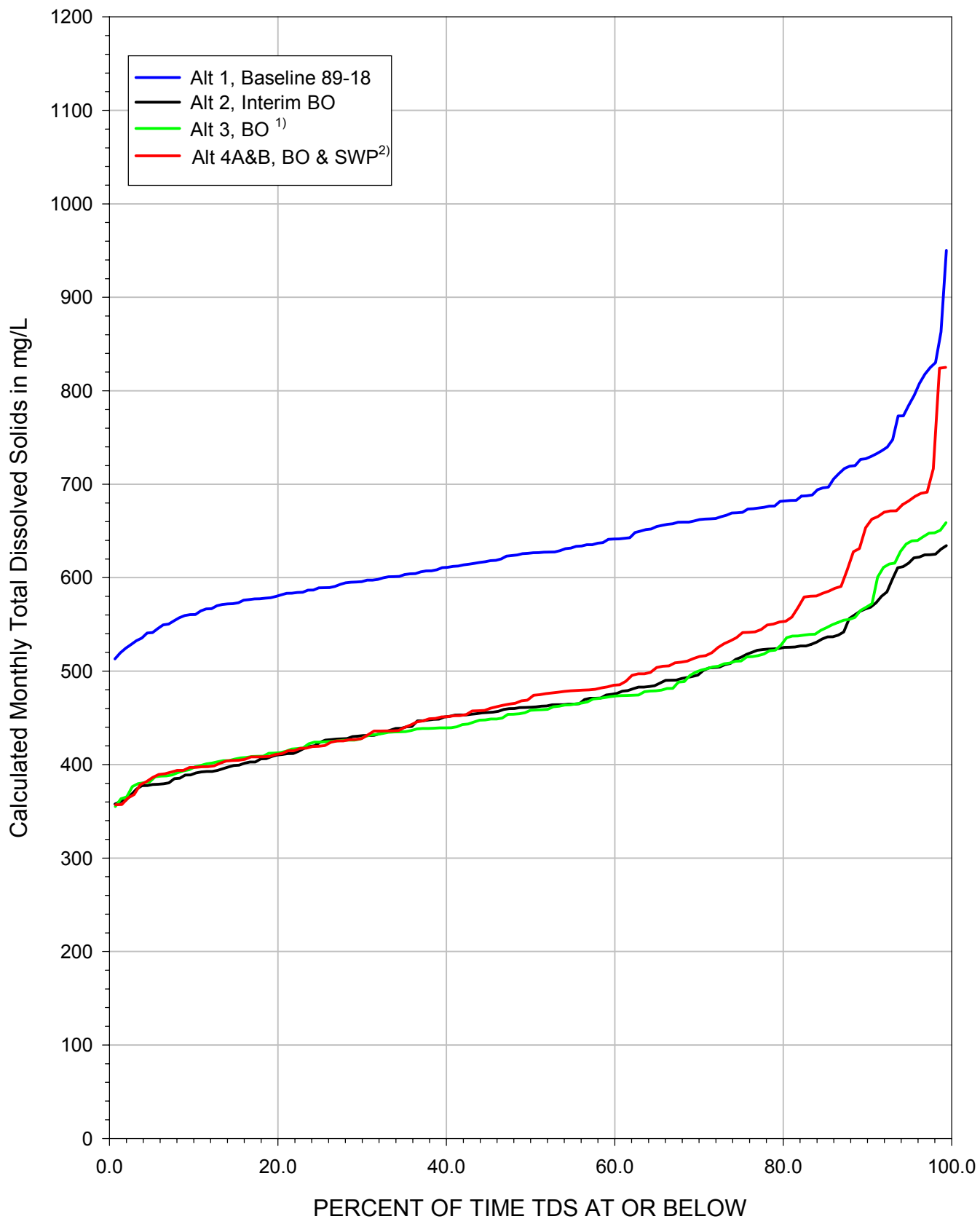


Chart 4-17. TDS Concentrations in Water Rights Releases Below the Dam (Simulation)

- 1) Frequency does not include months of no flow or flows less than 0.5 cfs at the Narrows
- 2) Results from EIR Alternative 3C are plotted here; Alts 3A and 3B are very similar to Alt 3C for Narrows TDS
- 3) State Water Project TDS during Below Narrows Account water right releases

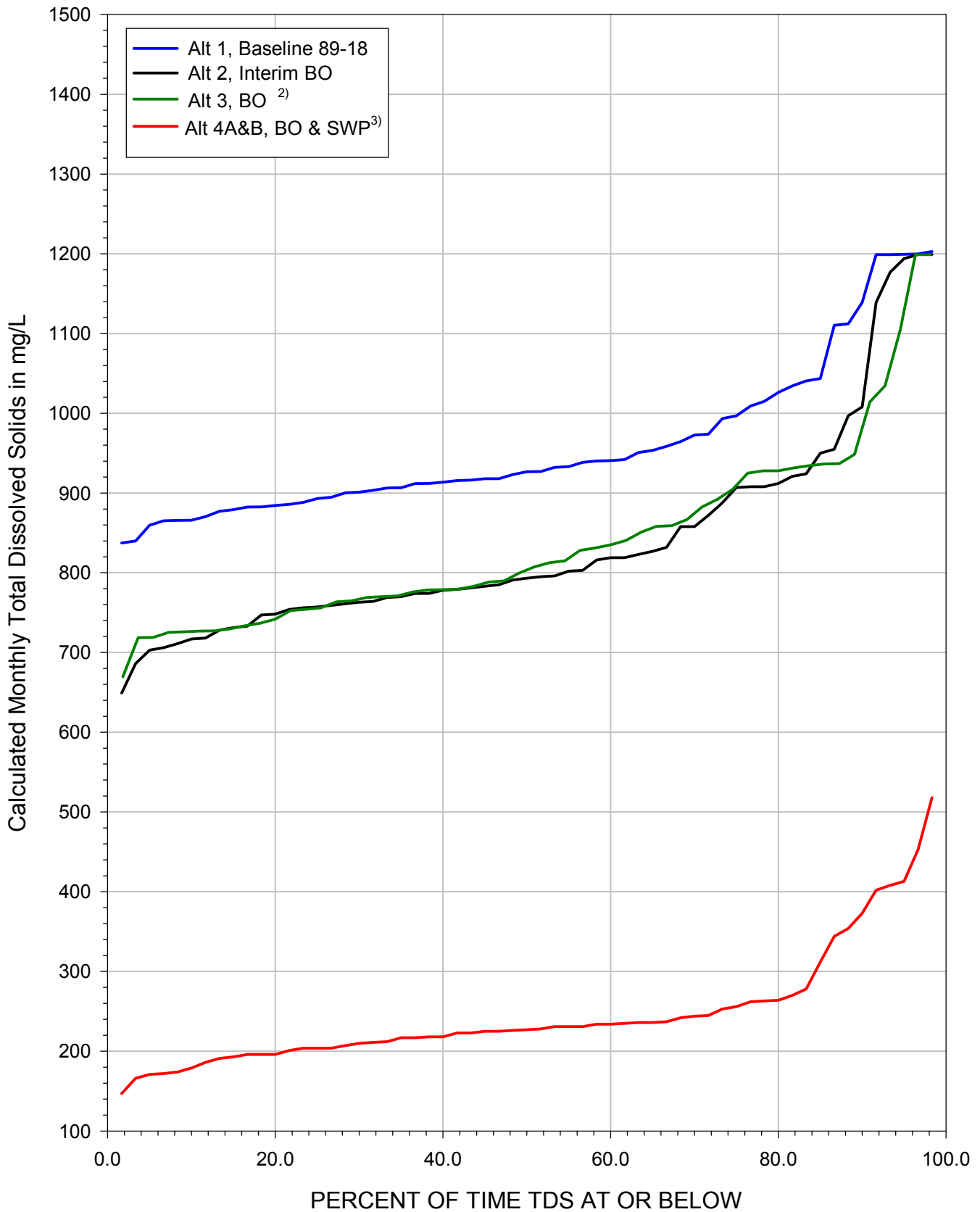


Chart 4-18. TDS Concentrations in Water Rights Releases at the Narrows (Simulation)

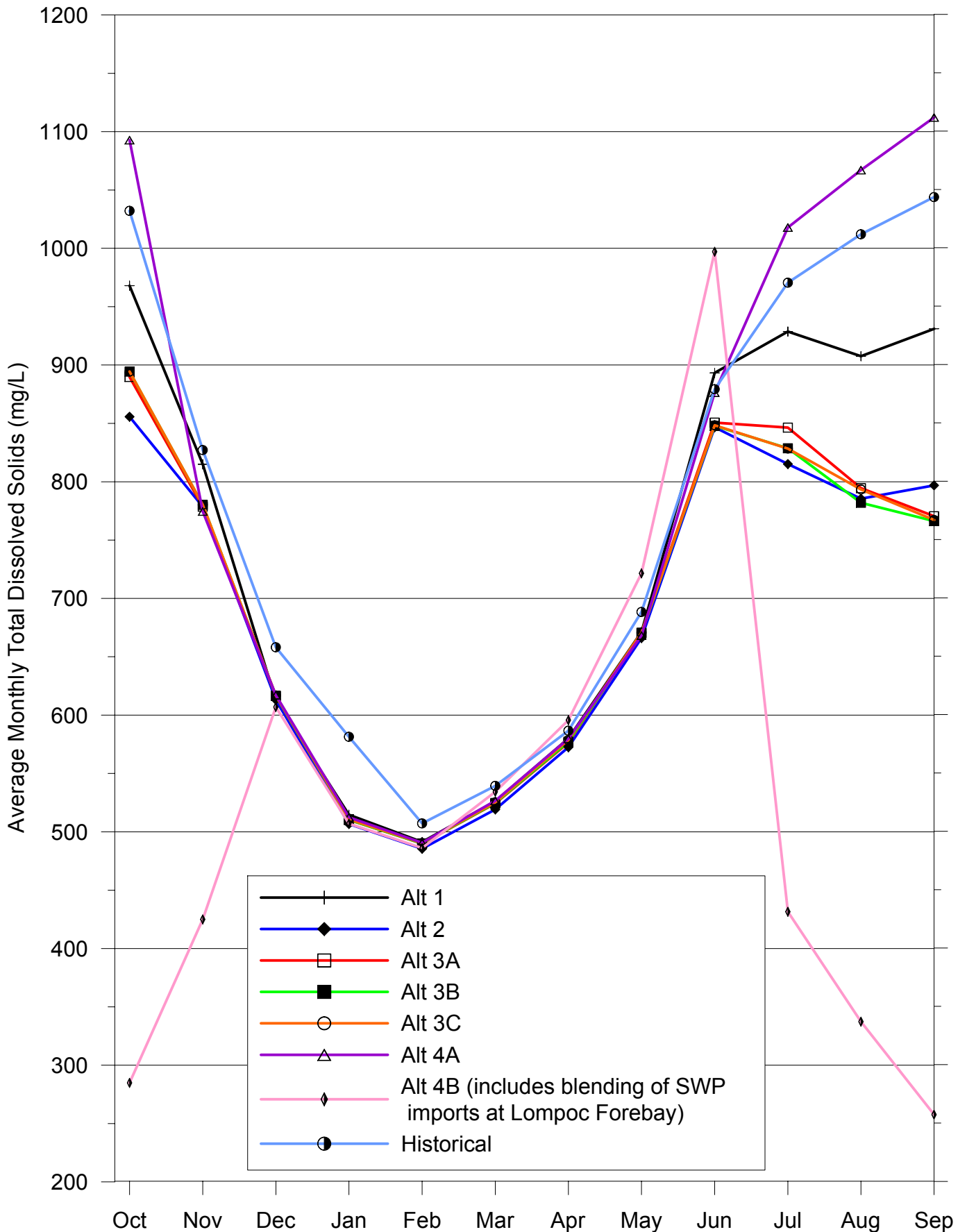


Chart 4-19. Monthly Mean Flow-Weighted TDS at the Narrows (Simulation)

1) Frequency does not include months of no flow or flows less than 0.5 cfs at the Narrows

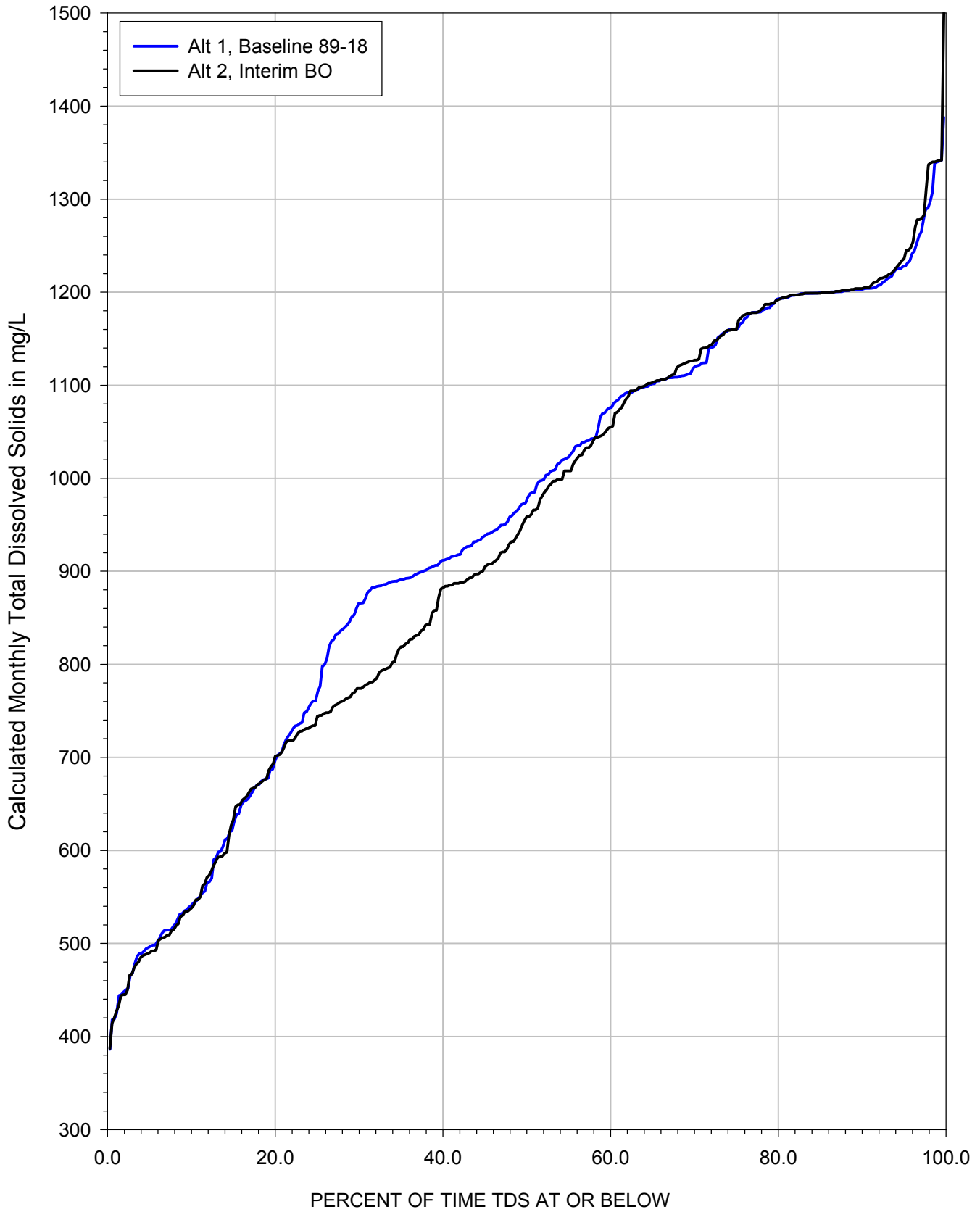


Chart 4-20. Frequency of TDS Levels in Annual Flows at the Narrows (Simulation)

Chart 4-21. Reported and Estimated Total Annual Pumping from the Lompoc Basin

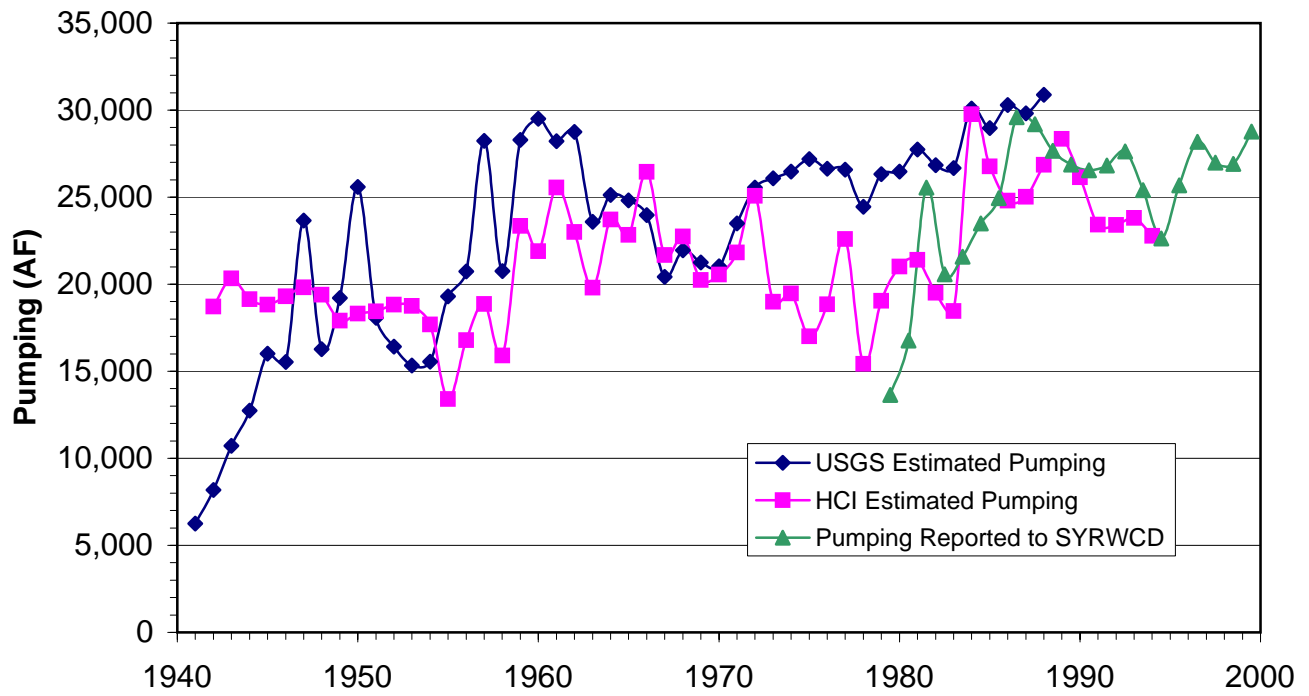


Chart 4-22. Annual Pumping Reported by the City of Lompoc

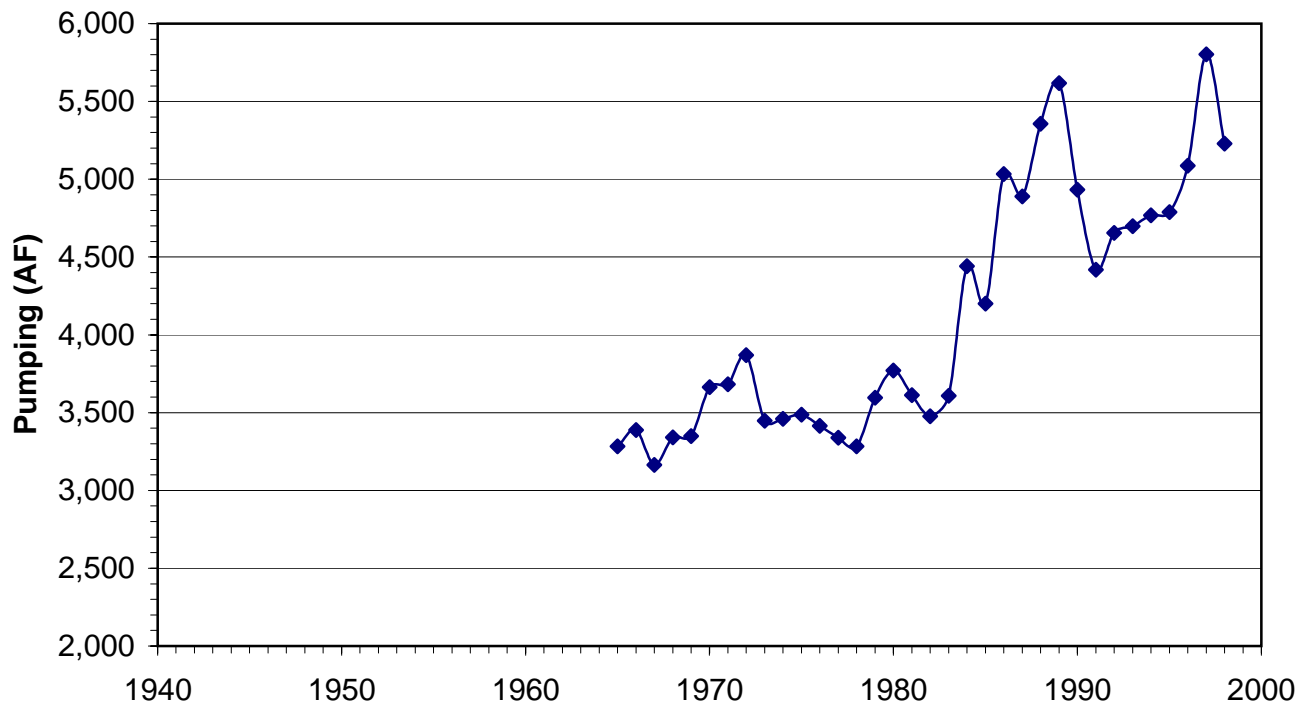


CHART 4-23. HISTORICAL WATER LEVELS IN THE LOMPOC PLAIN

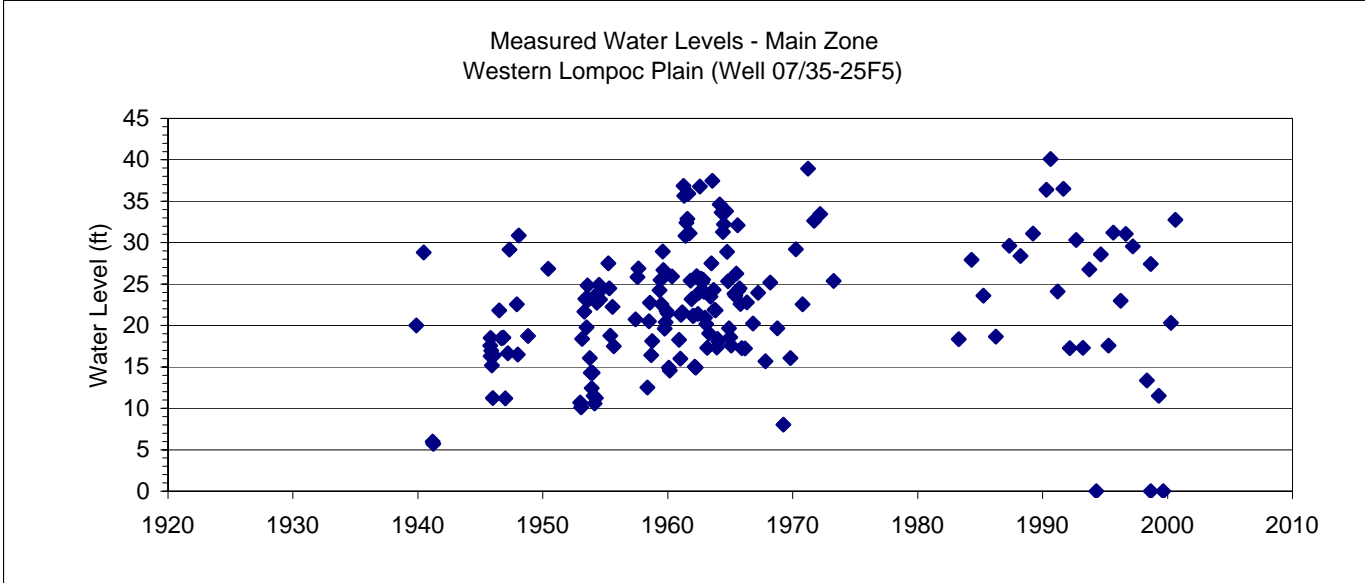
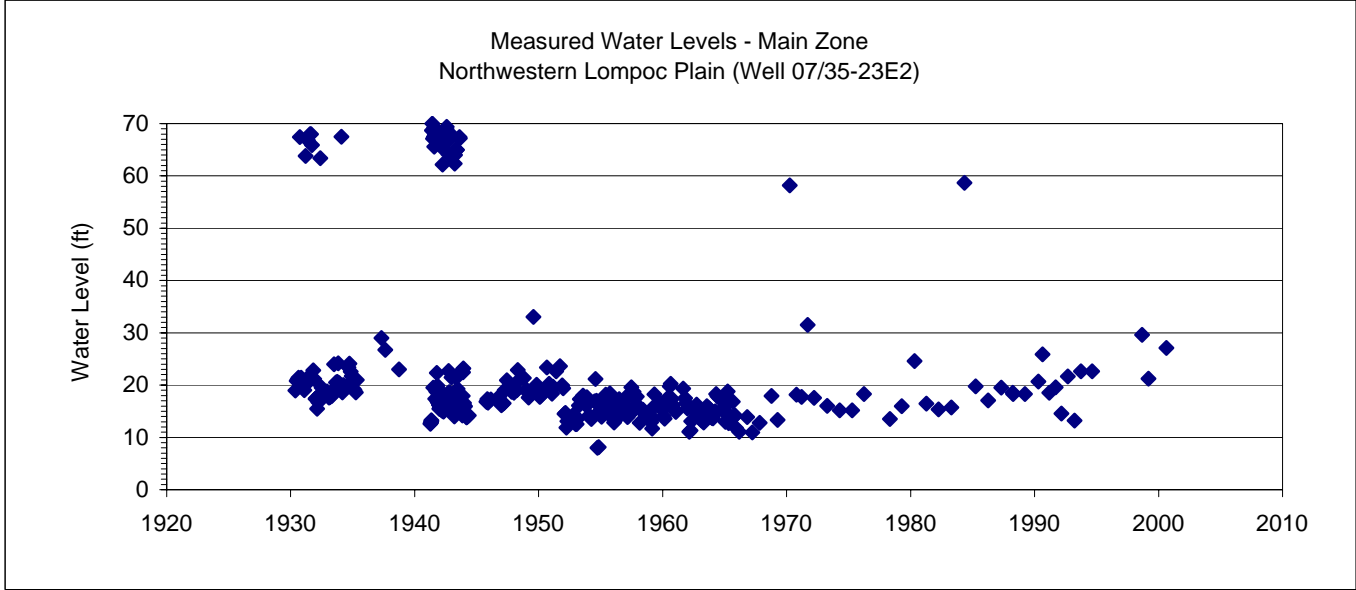
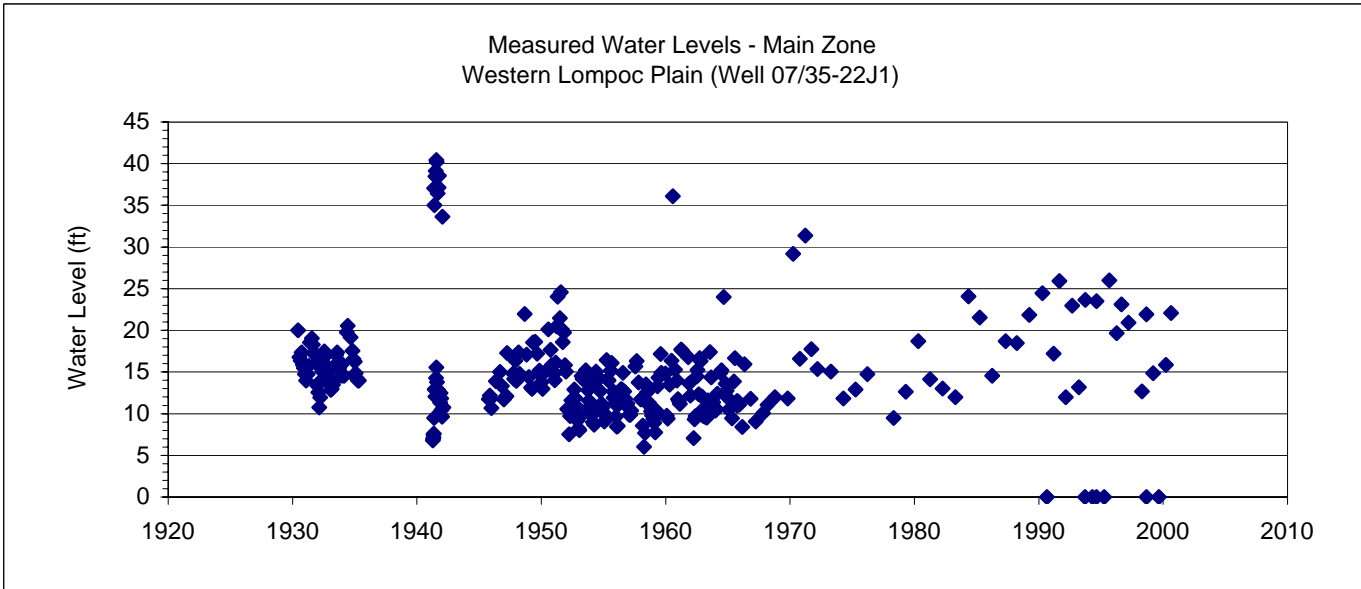


CHART 4-23. HISTORICAL WATER LEVELS IN THE LOMPOC PLAIN

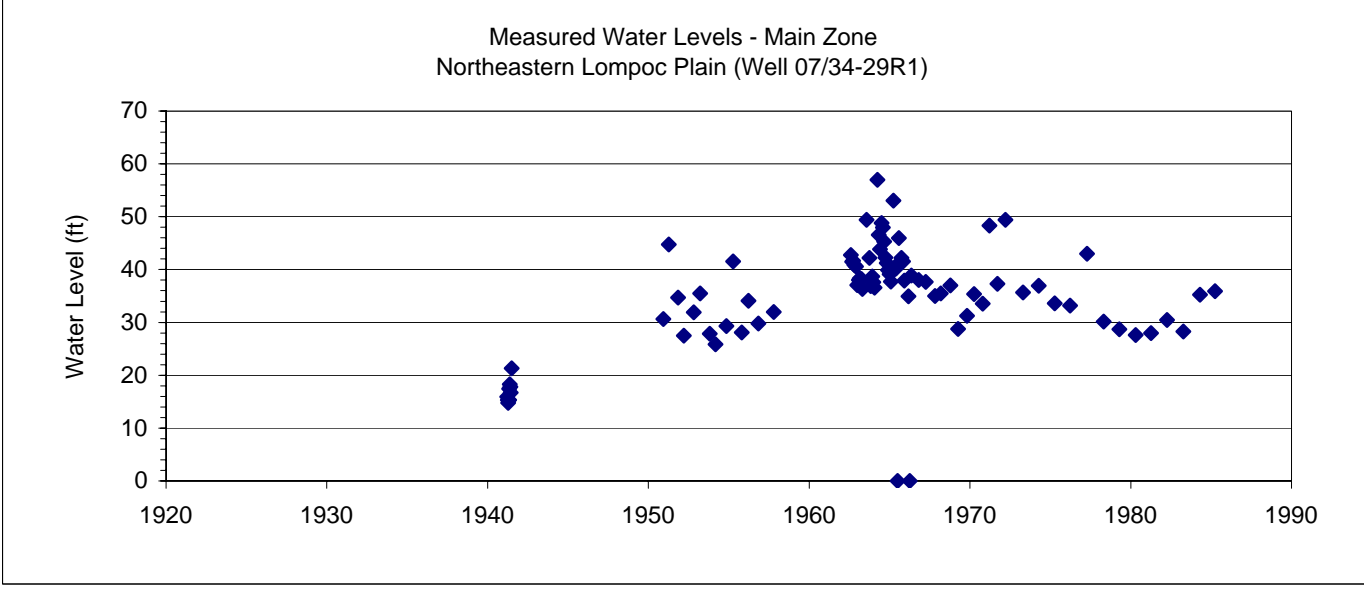
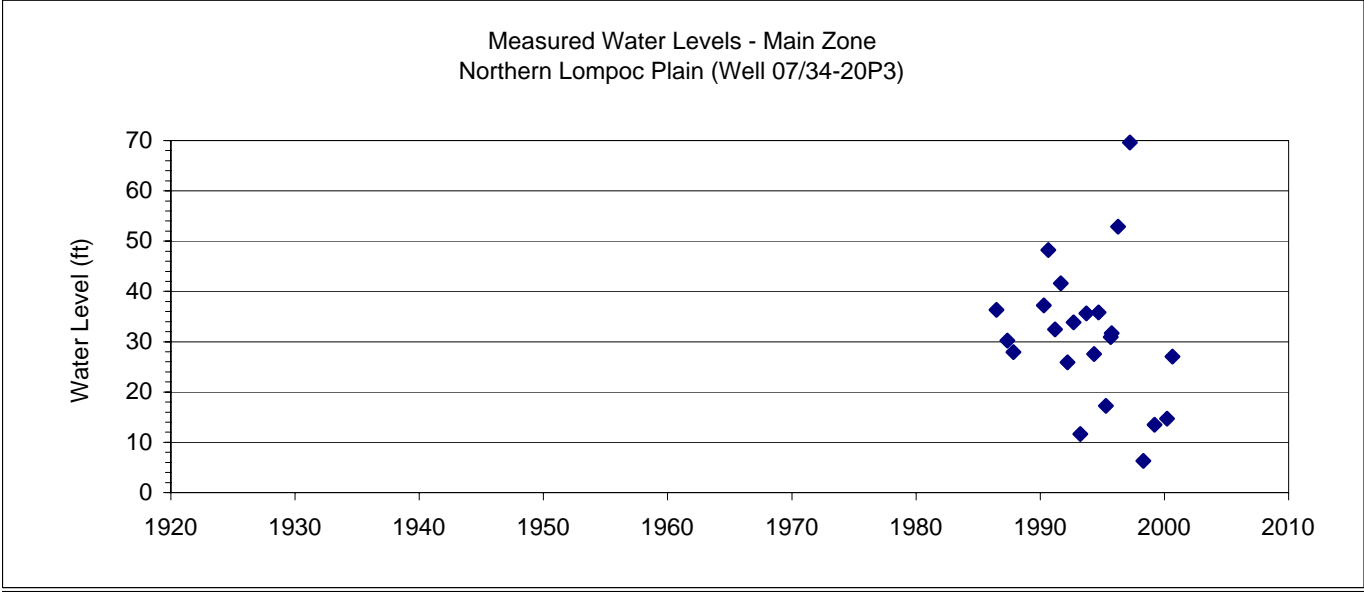
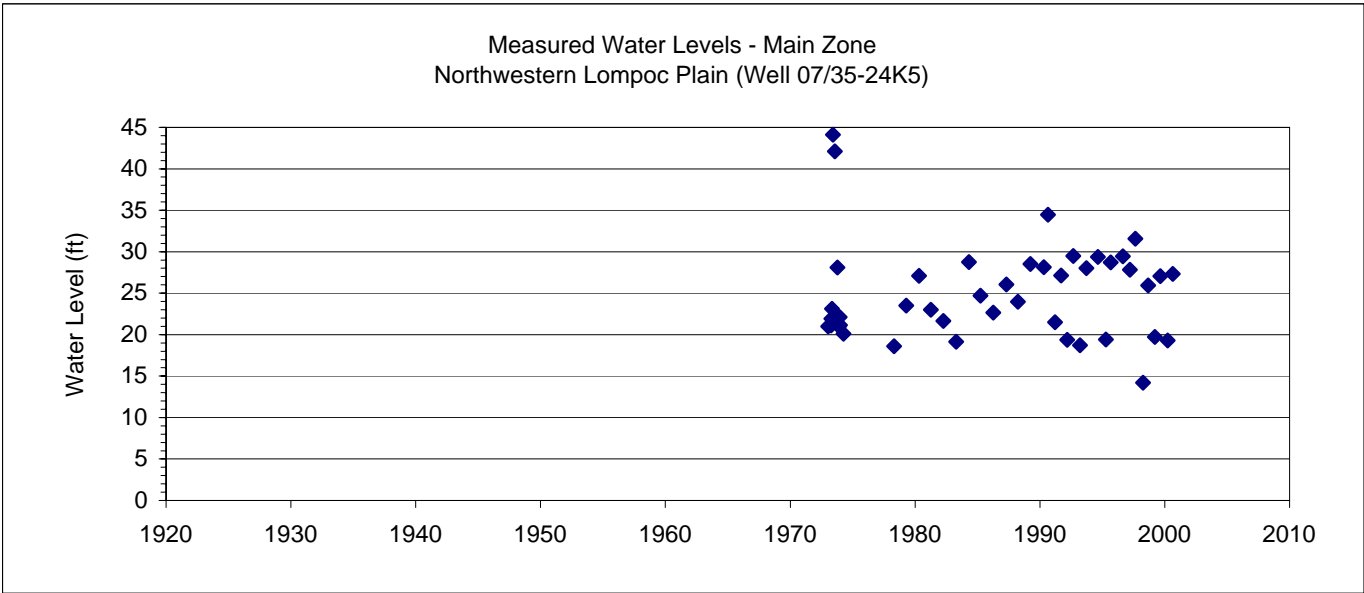


CHART 4-23. HISTORICAL WATER LEVELS IN THE LOMPOC PLAIN

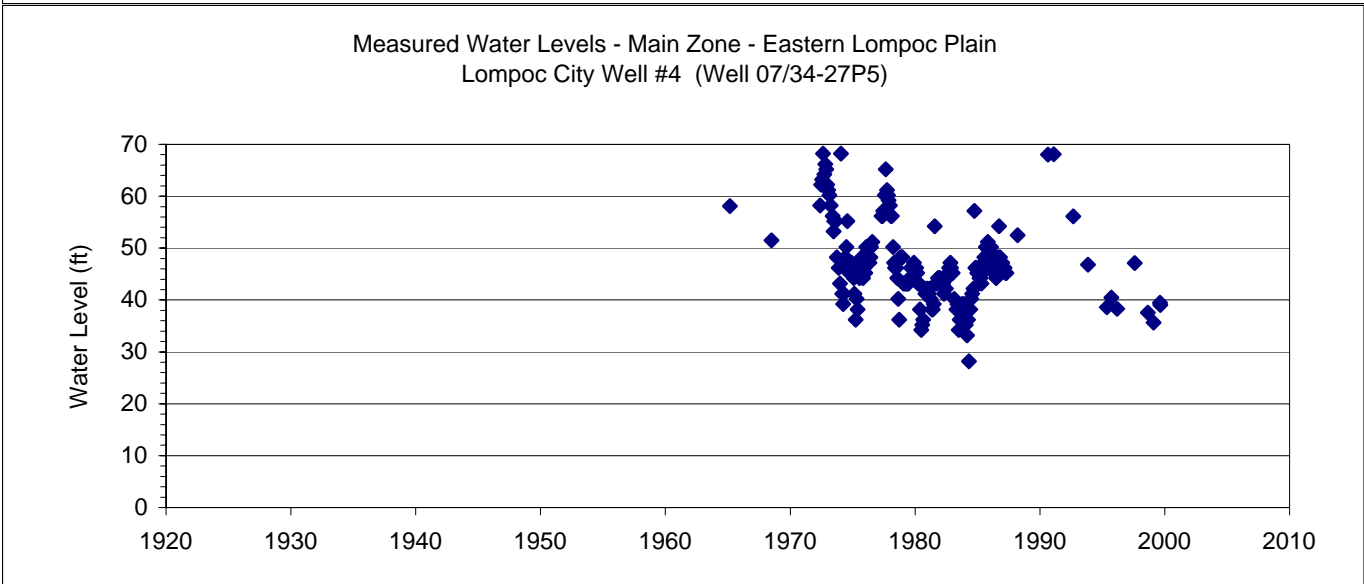
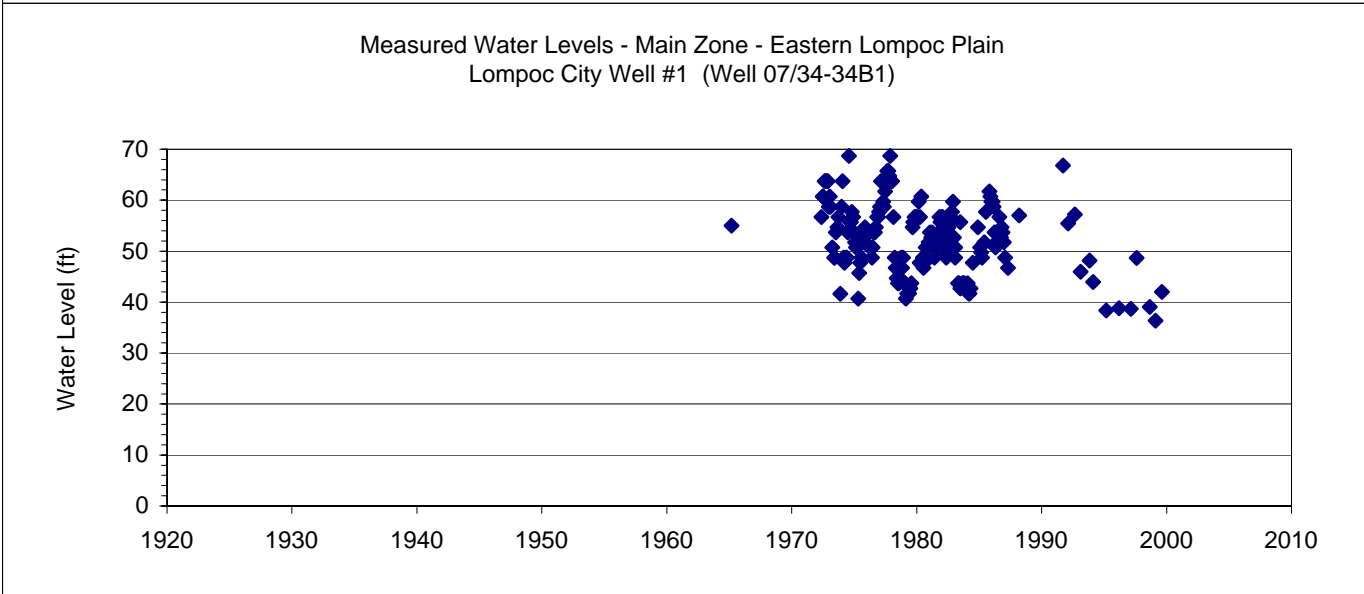
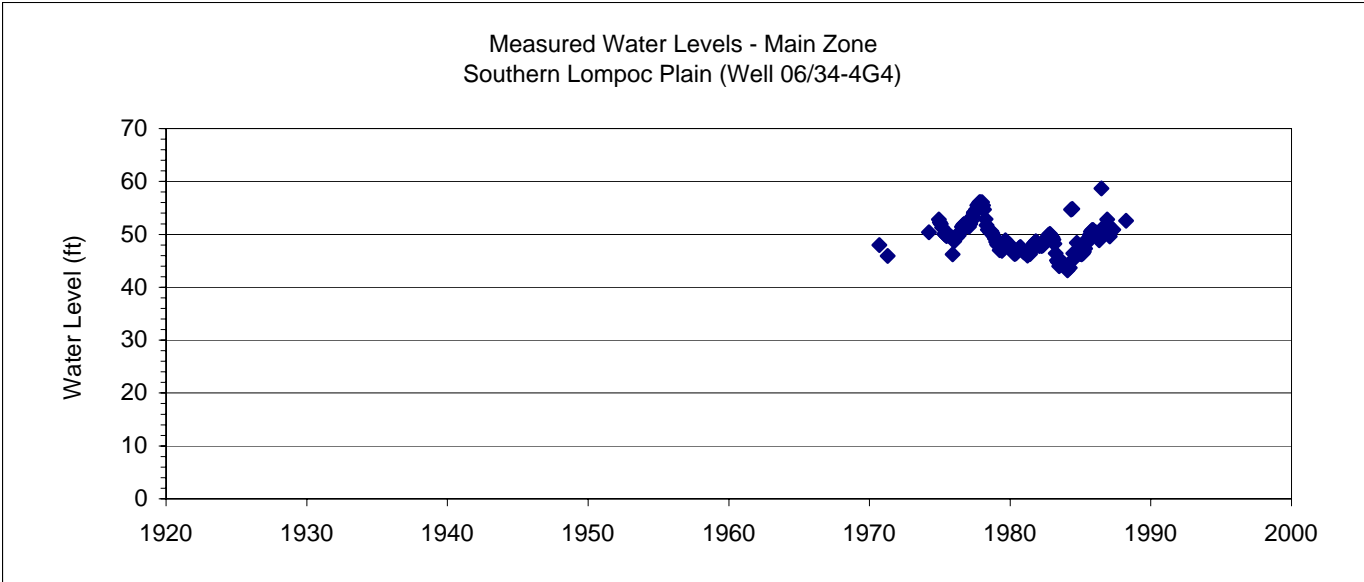


CHART 4-23. HISTORICAL WATER LEVELS IN THE LOMPOC PLAIN

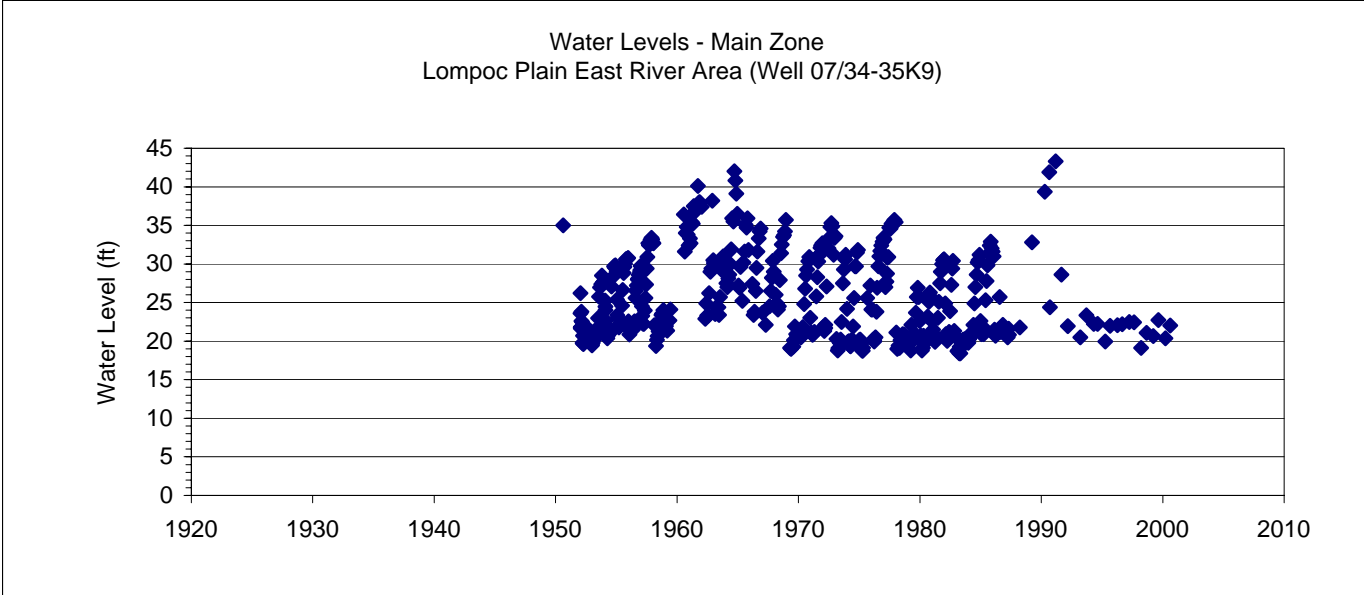
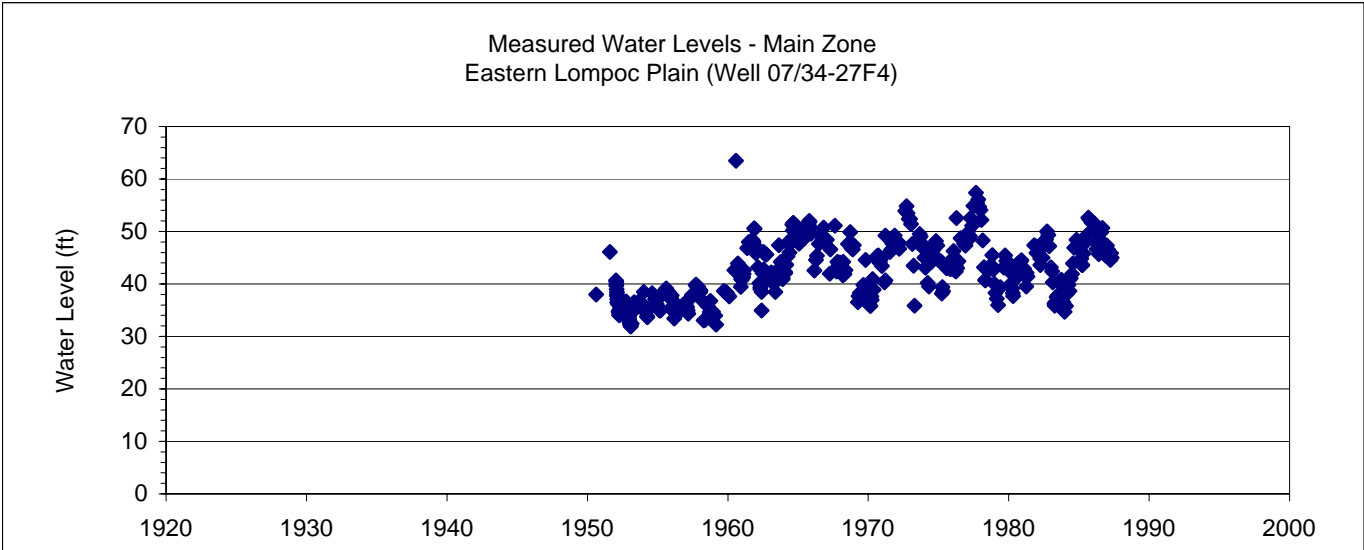


Chart 4-24. Historical TDS in Lompoc City Wells (City Data)

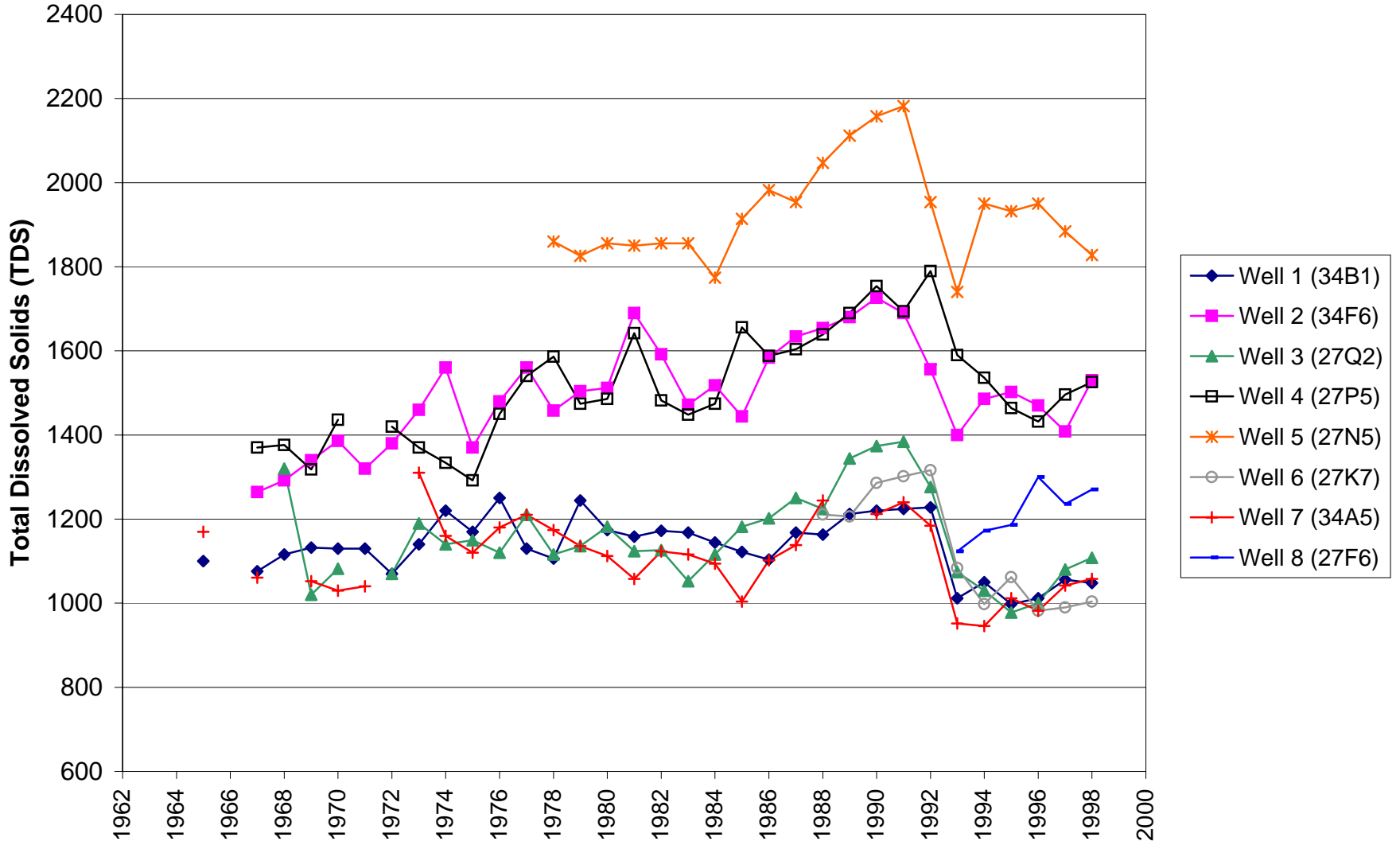


CHART 4-25 HISTORICAL TDS IN LOMPOC PLAIN WELLS (USGS DATA)

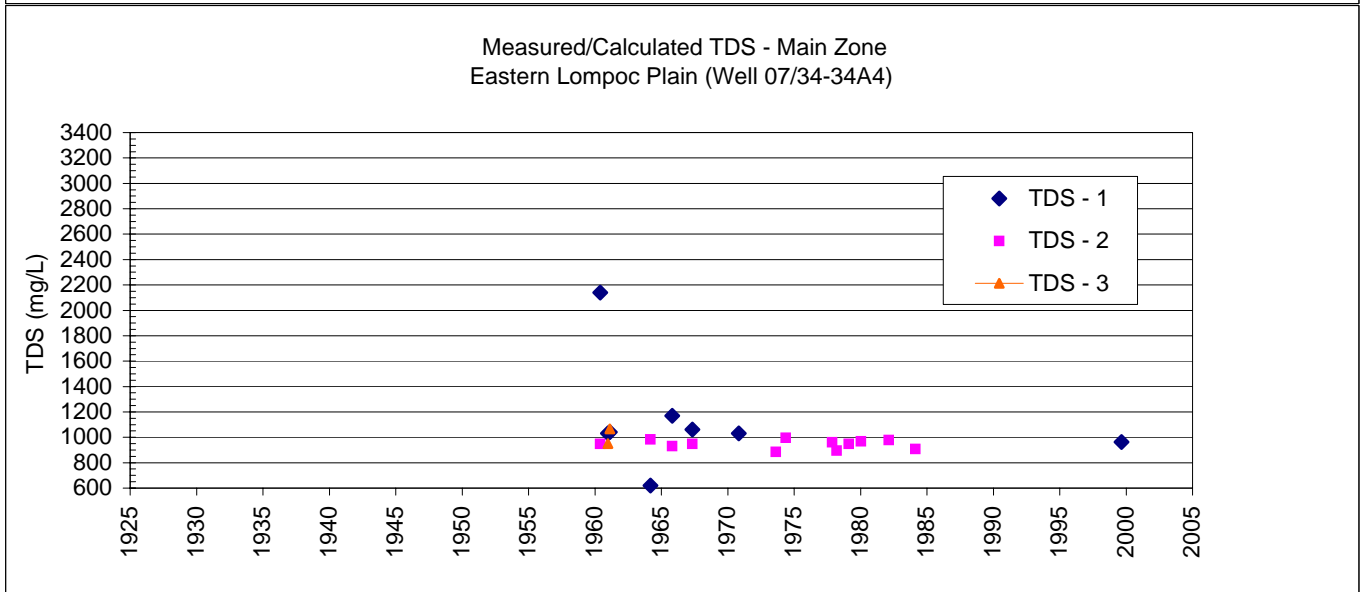
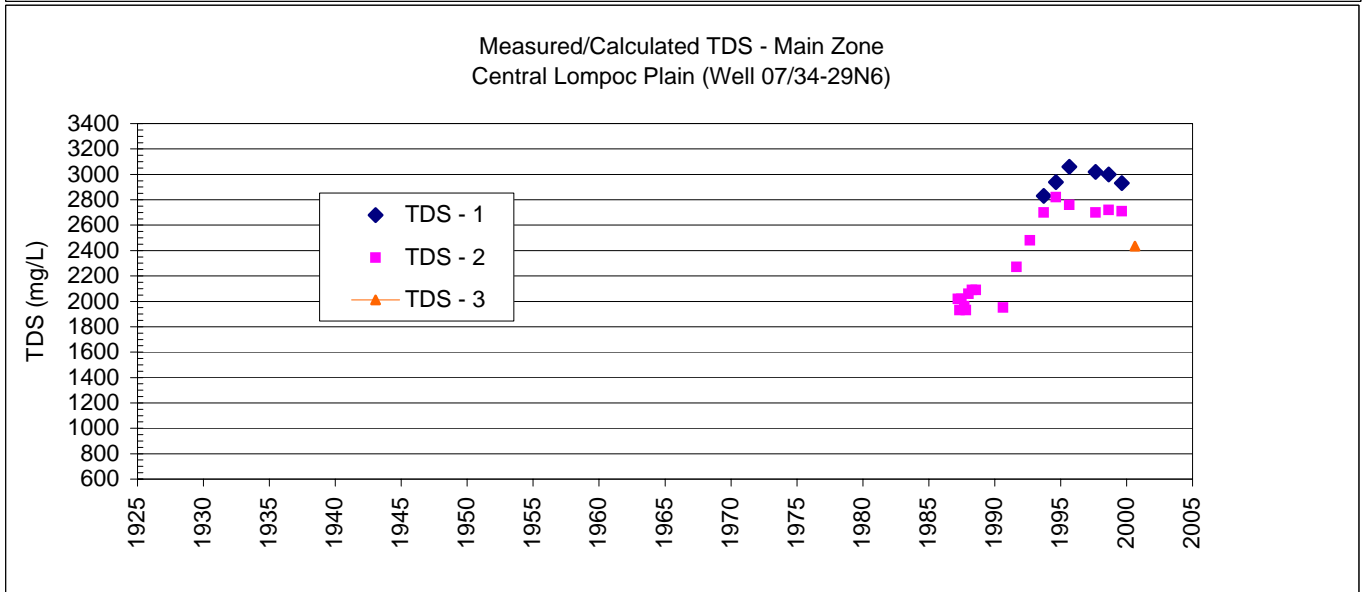
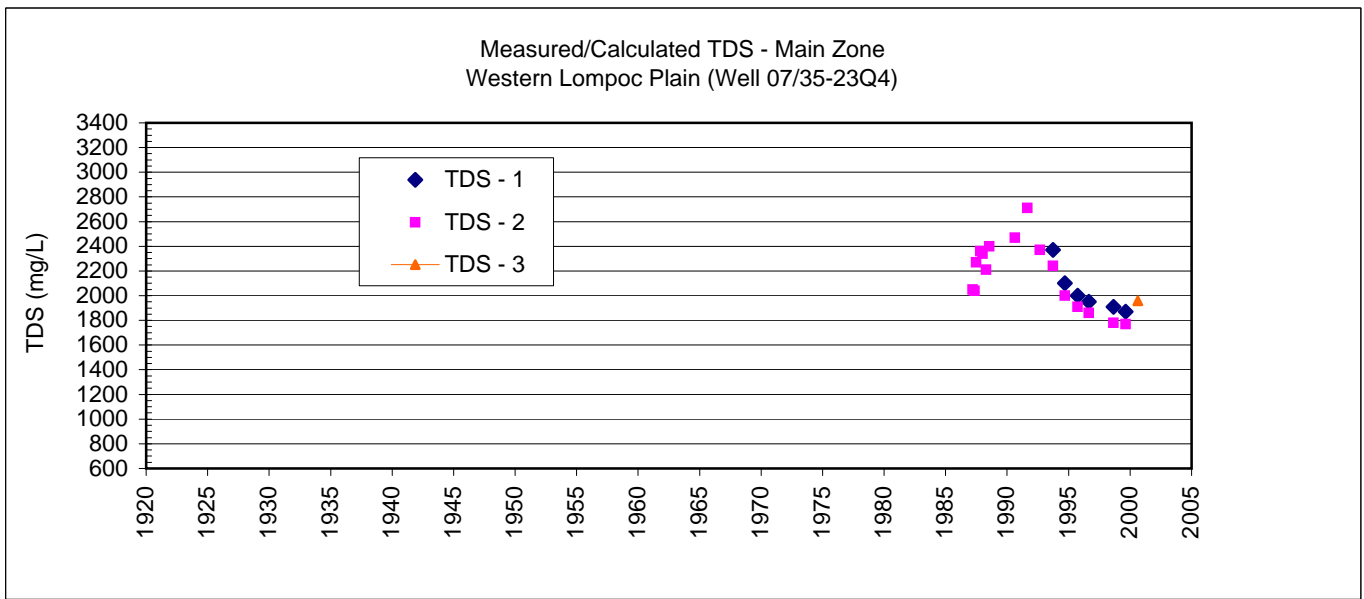


CHART 4-25 HISTORICAL TDS IN LOMPOC PLAIN WELLS (USGS DATA)

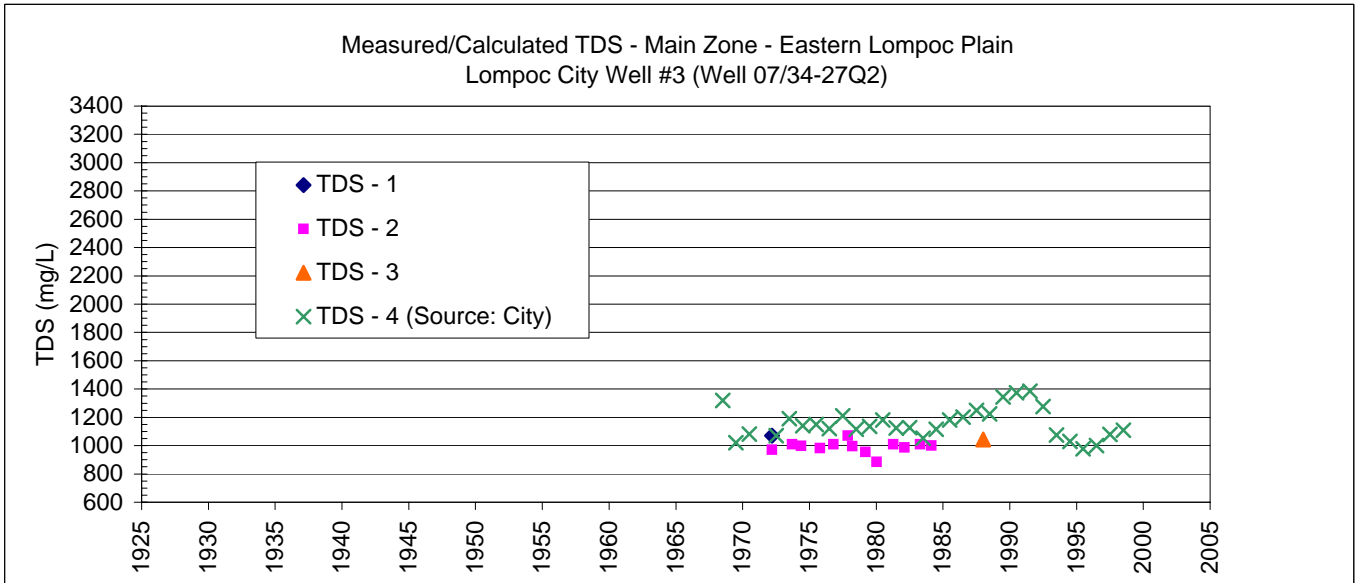
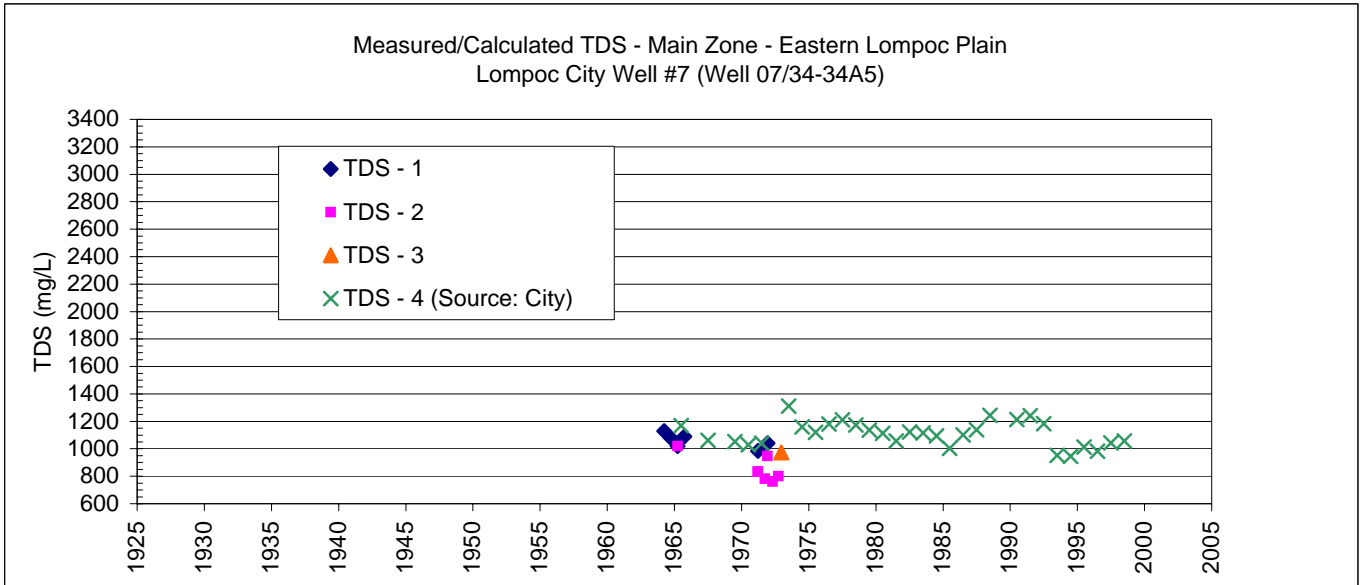
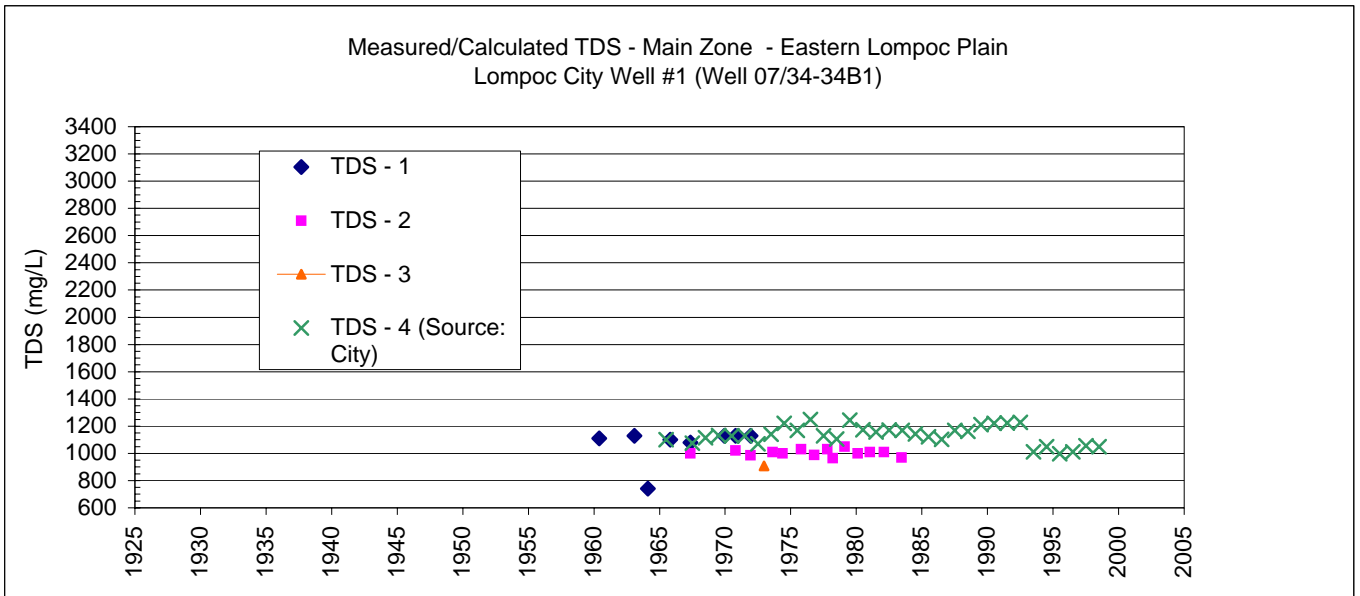
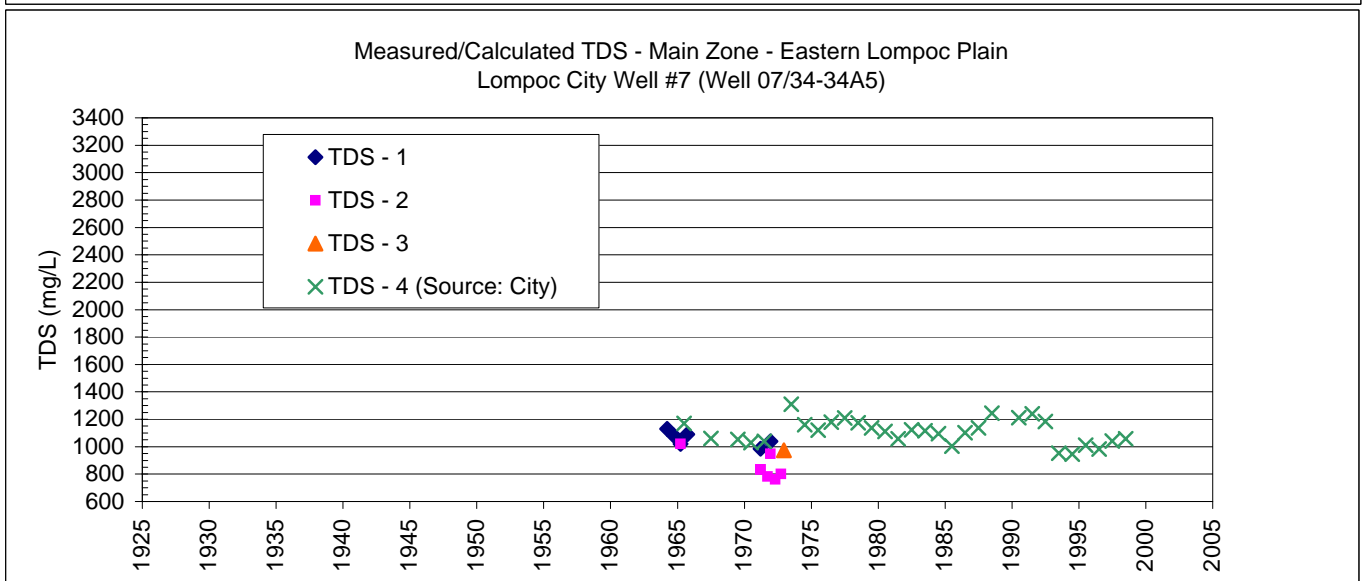
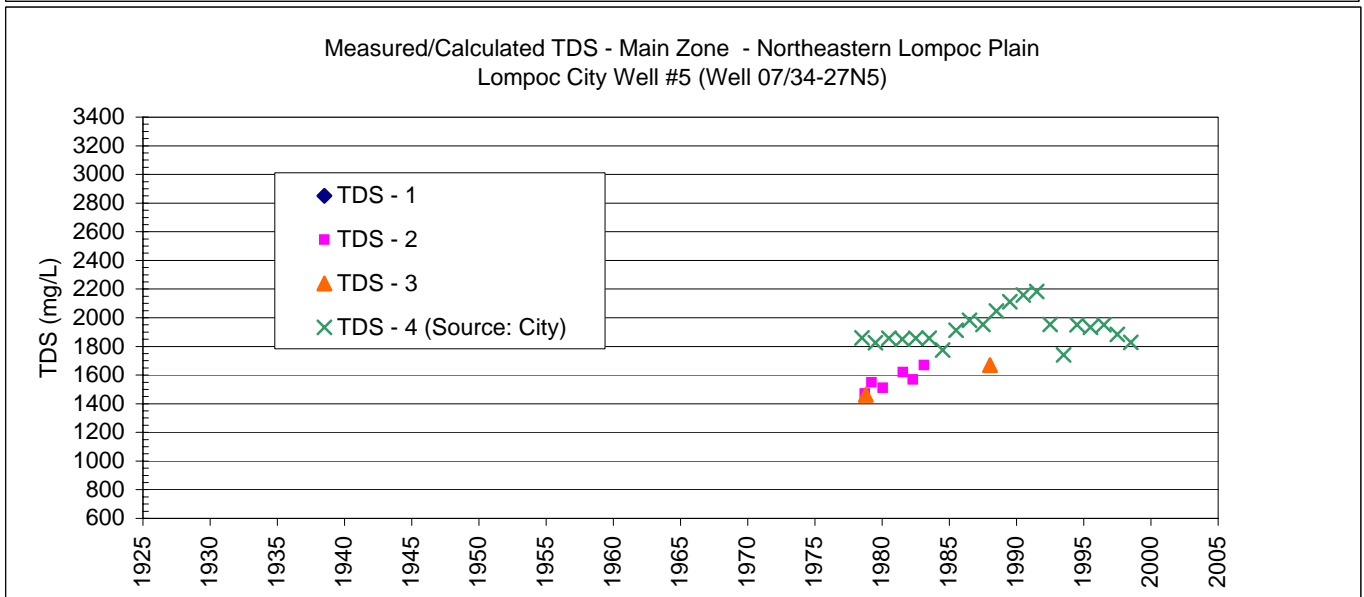
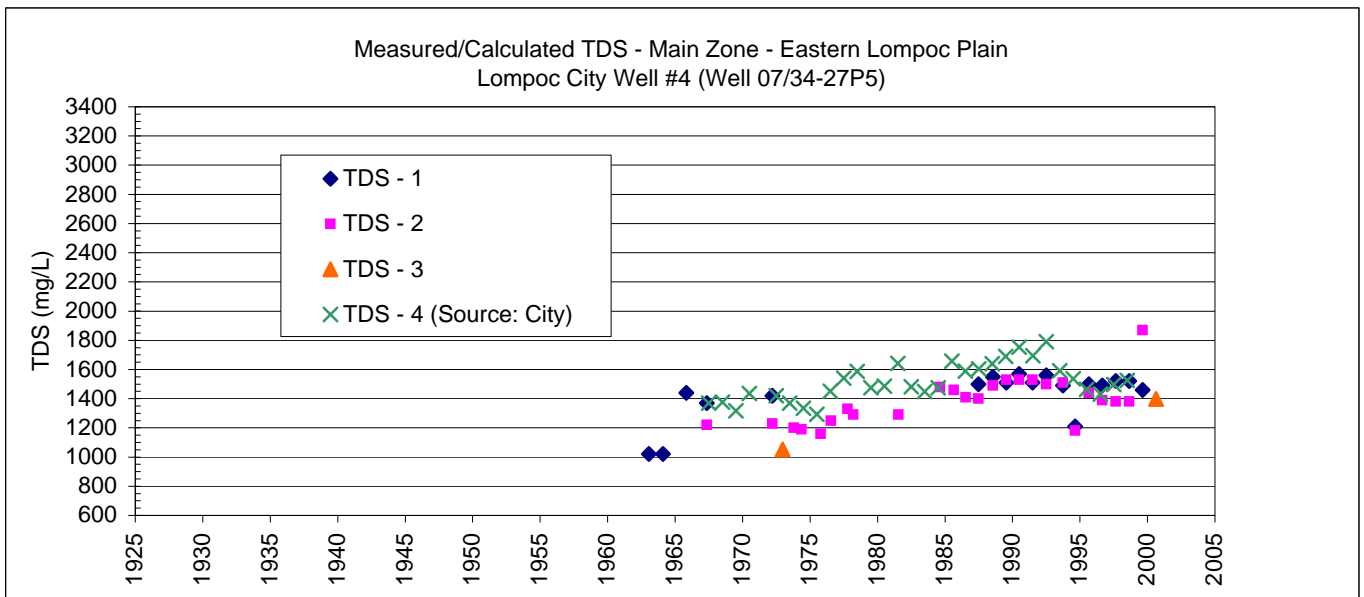


CHART 4-25 HISTORICAL TDS IN LOMPOC PLAIN WELLS (USGS DATA)



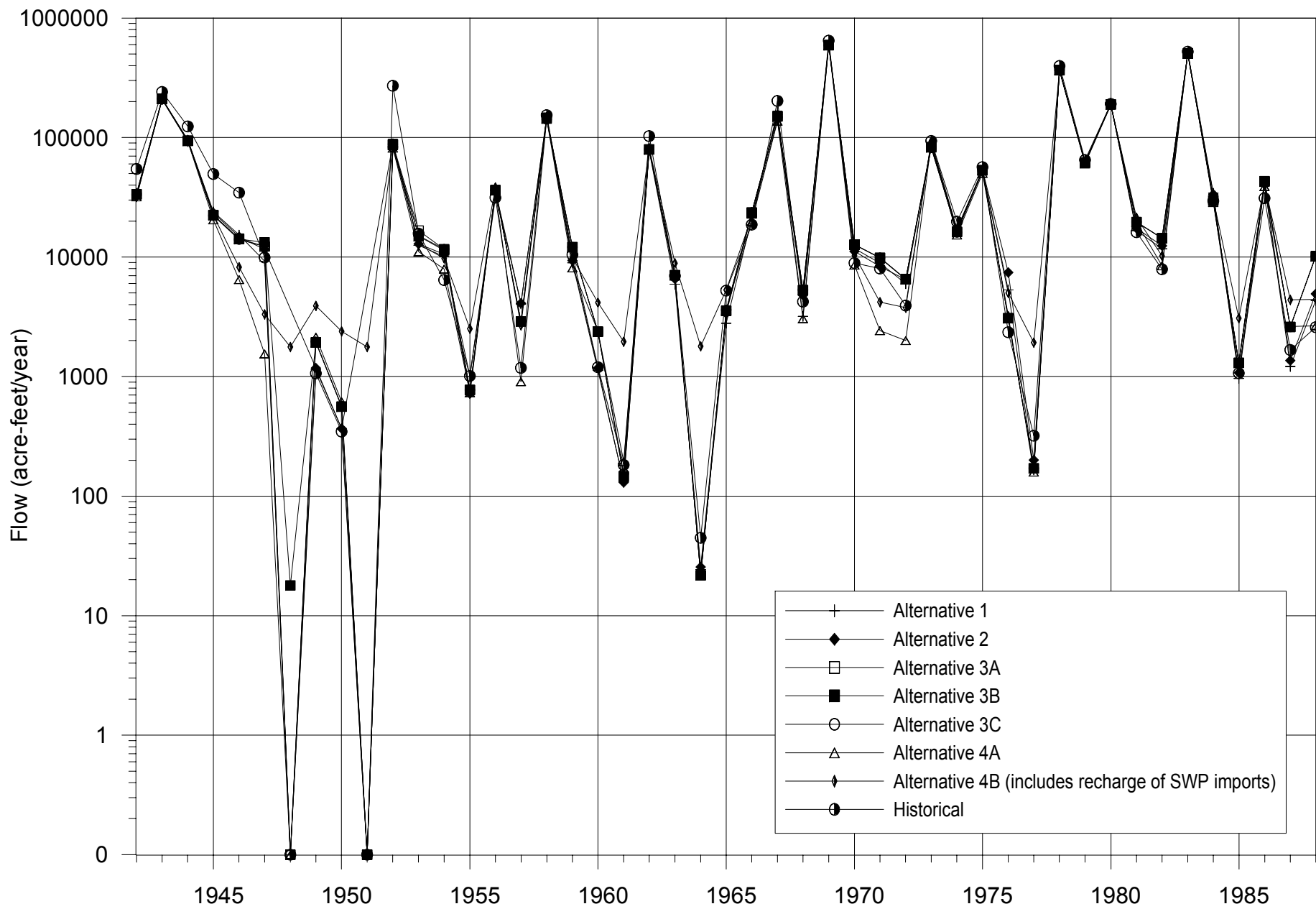


Chart 4-26. Annual Average Flow of Santa Ynez River at the Narrows (Simulation)

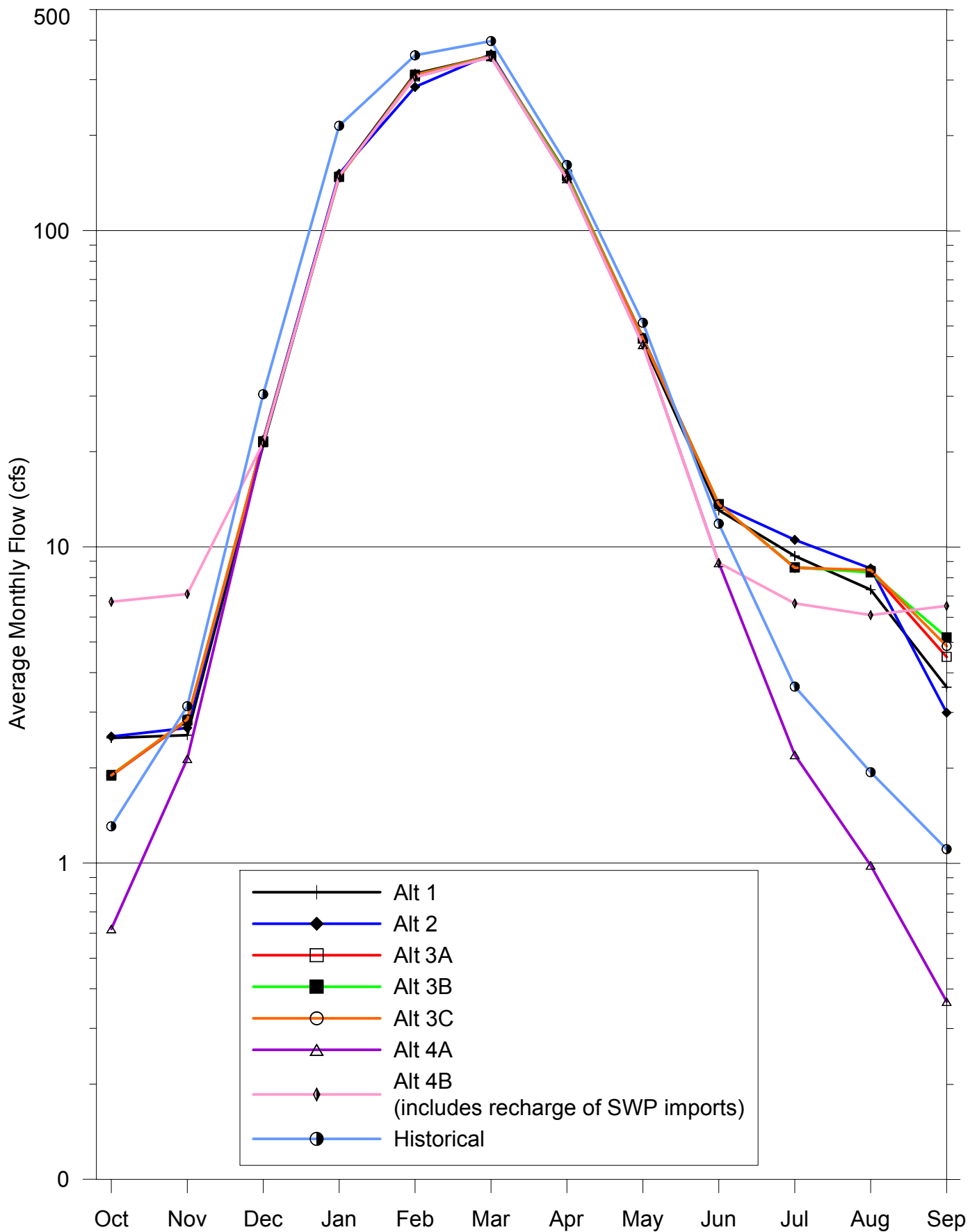


Chart 4-27. Simulated Mean Streamflow at the Lompoc Narrows

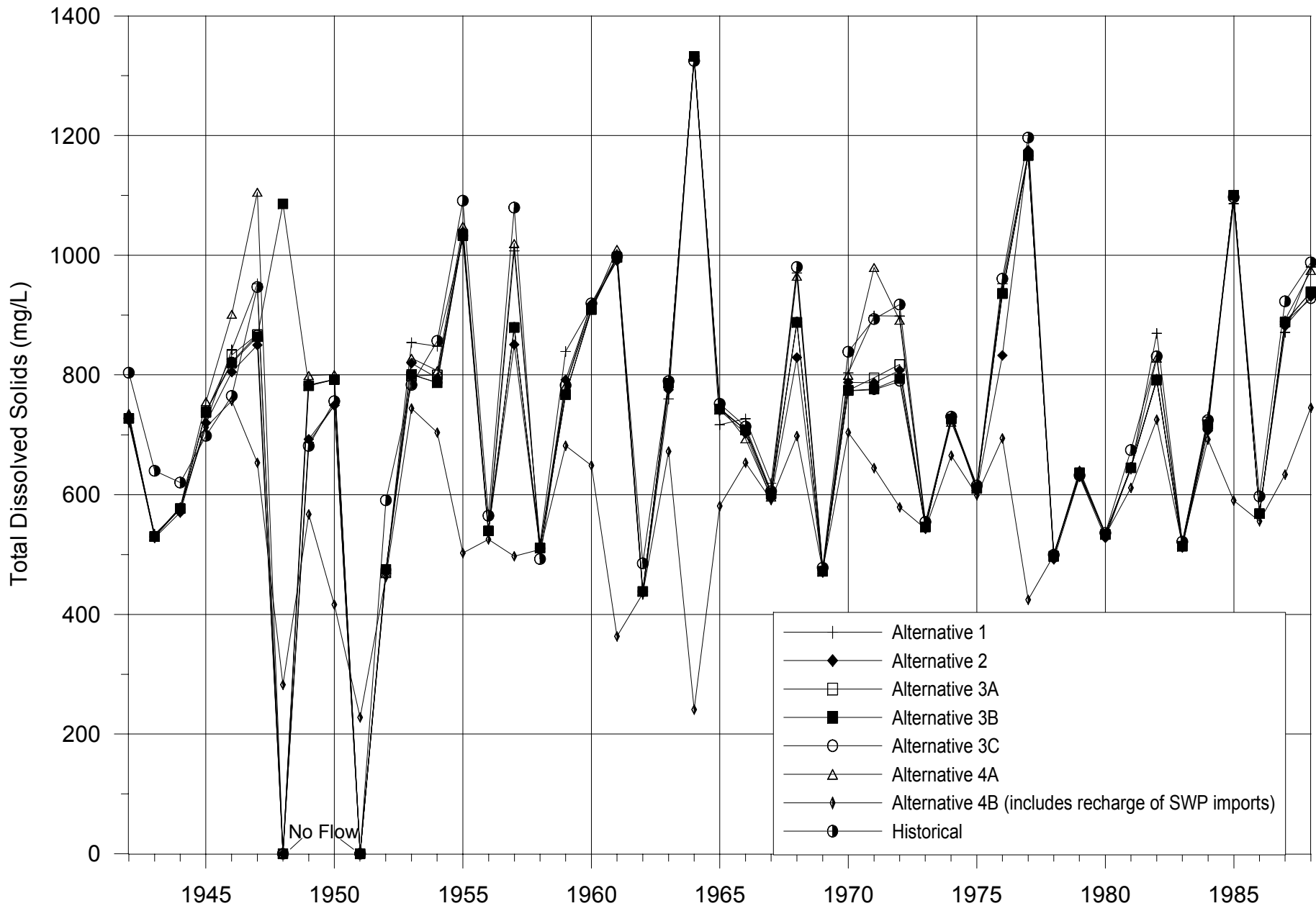
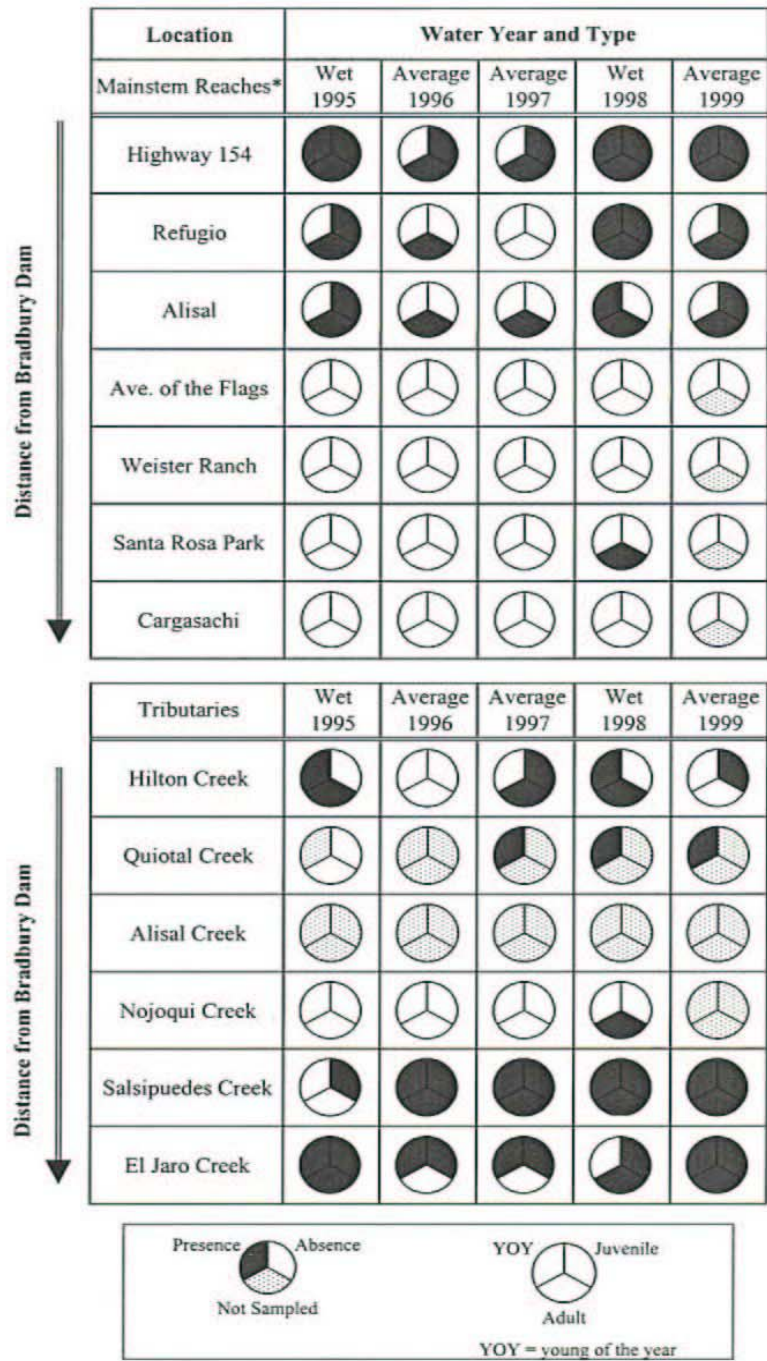


Chart 4-28. Average Annual Flow Weighted TDS at the Narrows (Simulation)



Data from SYRTAC 1997b, 1998a, 2000, and other data
 See Table 2-3 for mainstem reach definitions

Chart 4-29. Occurrence of Steelhead/Rainbow Trout in Tributaries