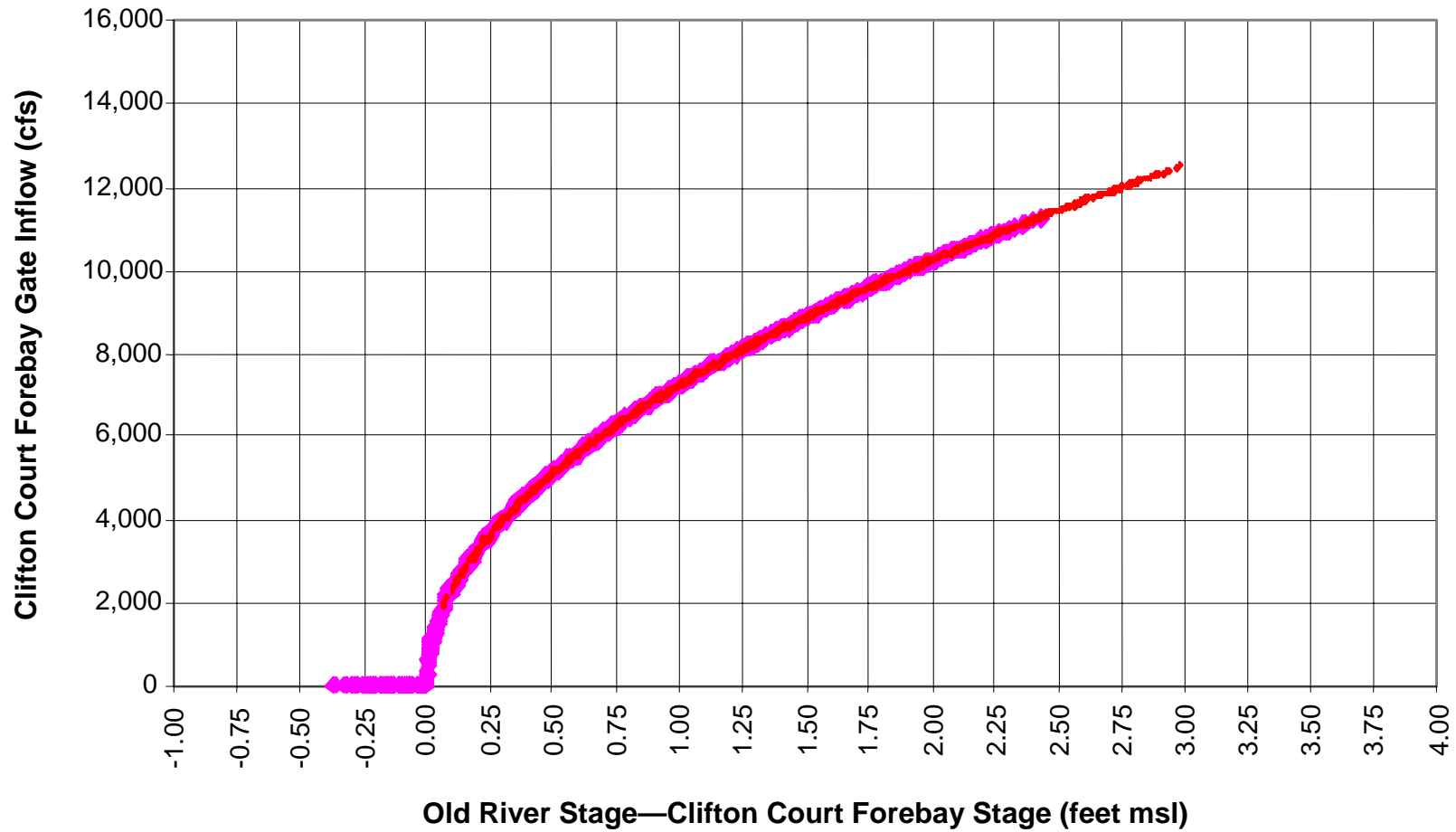


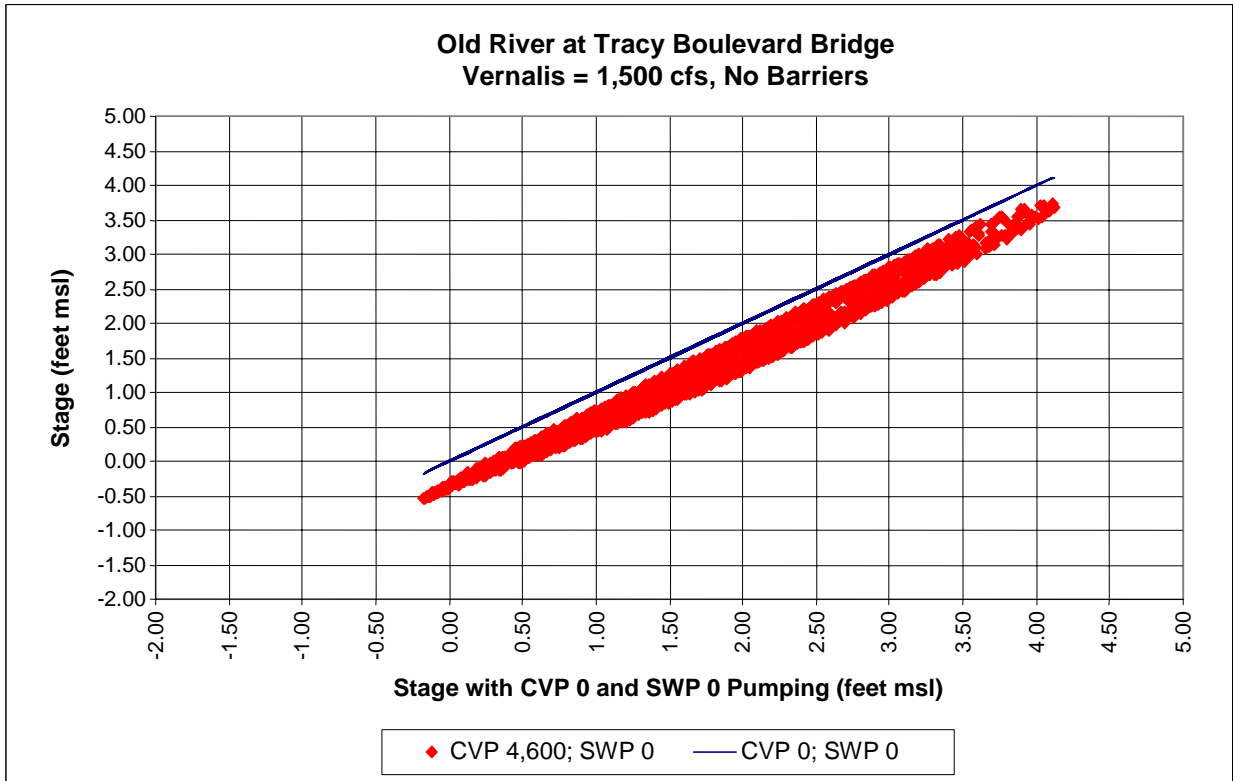
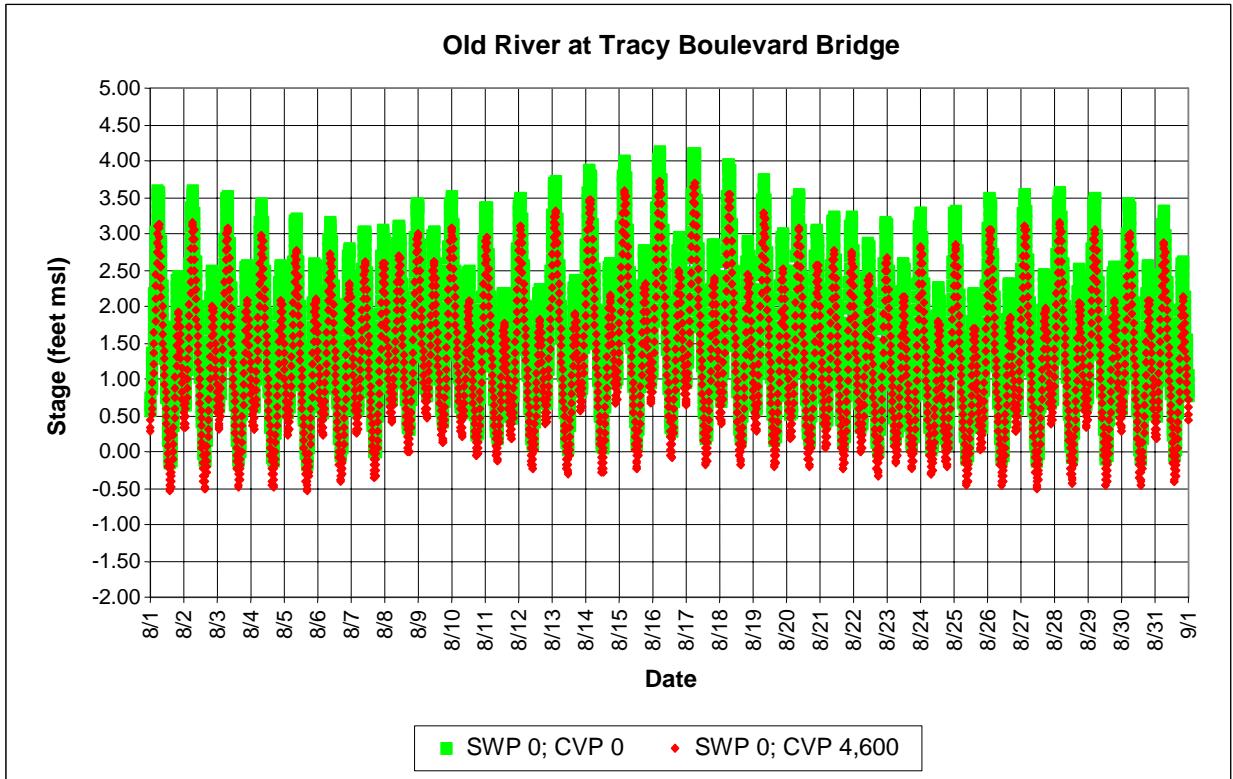
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Clifton Court Forebay Weir Coefficient of 1,200 cfs

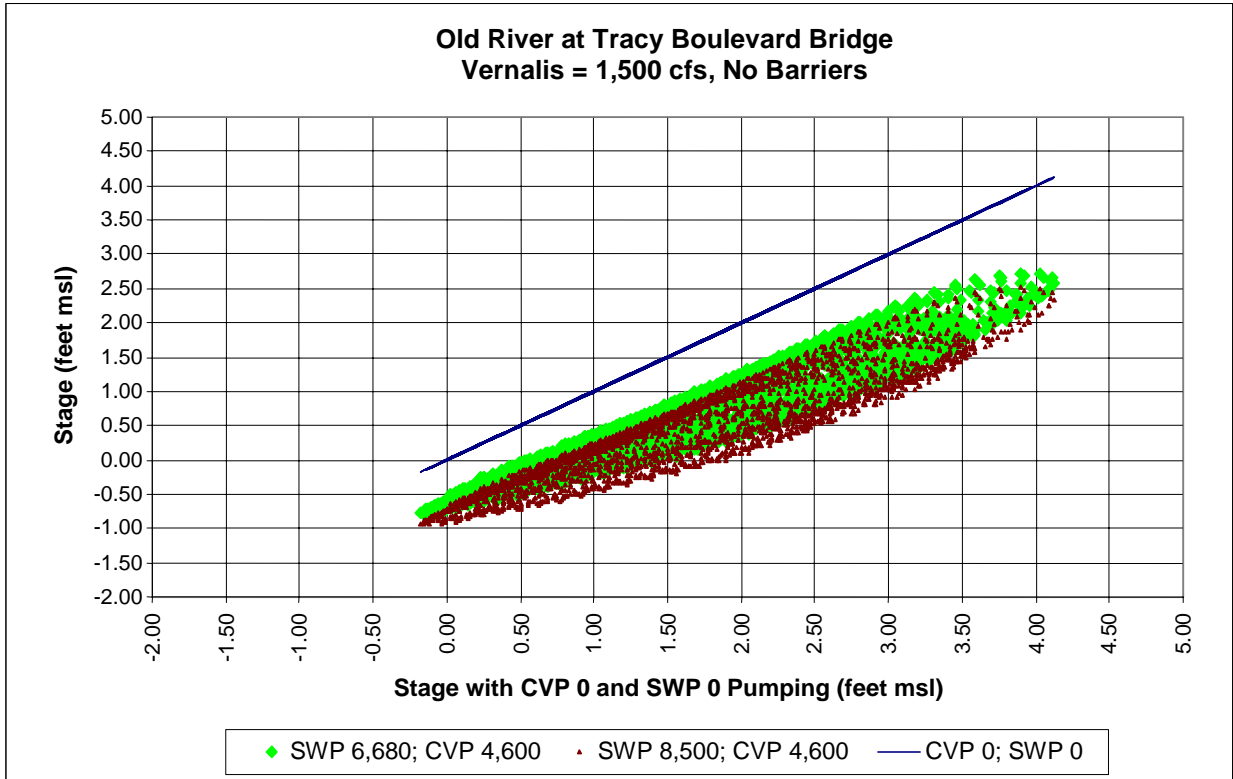
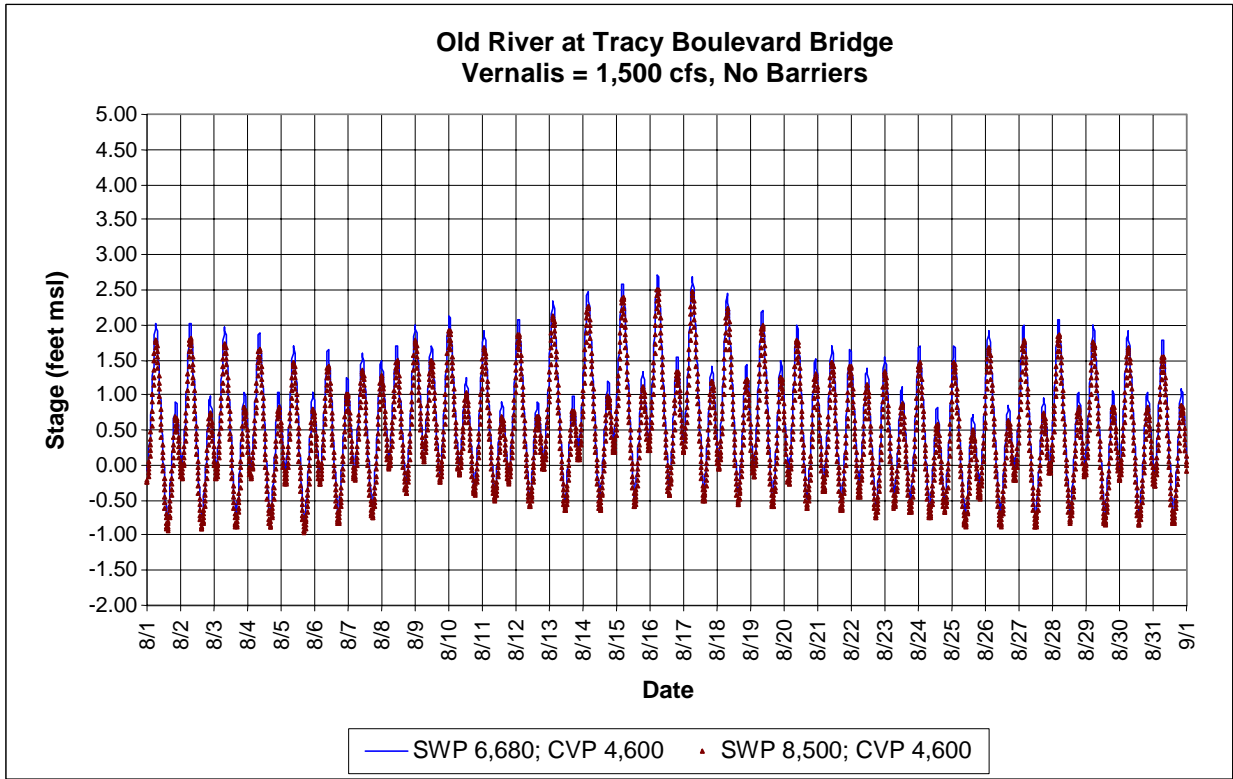


◆ SWP 6,680; CVP 4,600 ◆ SWP 8,500; CVP 4,600

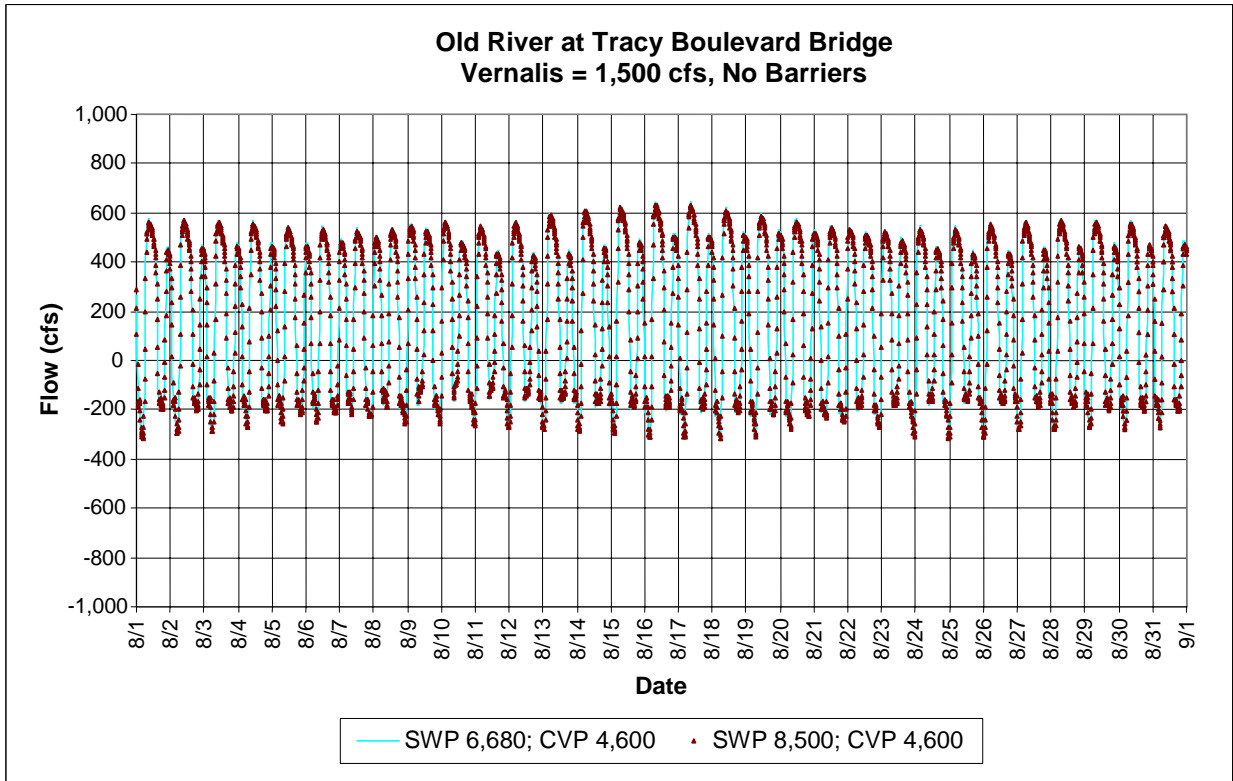
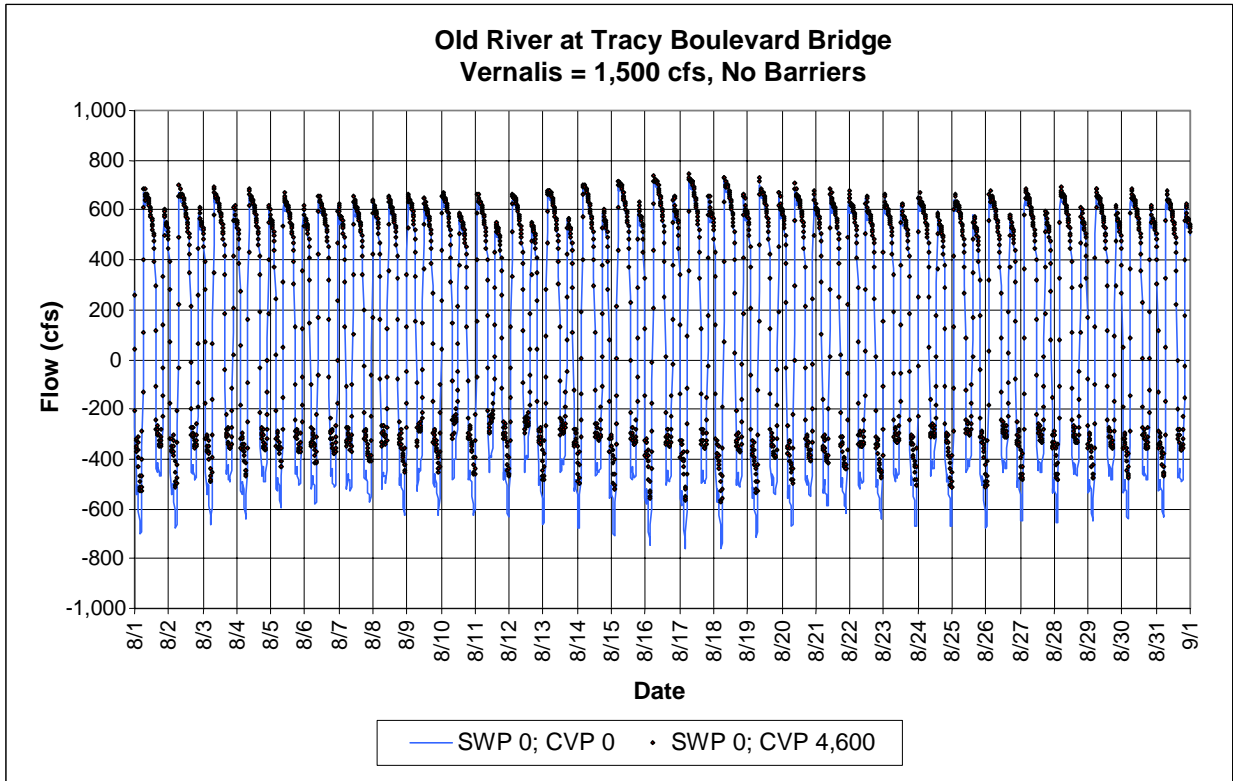
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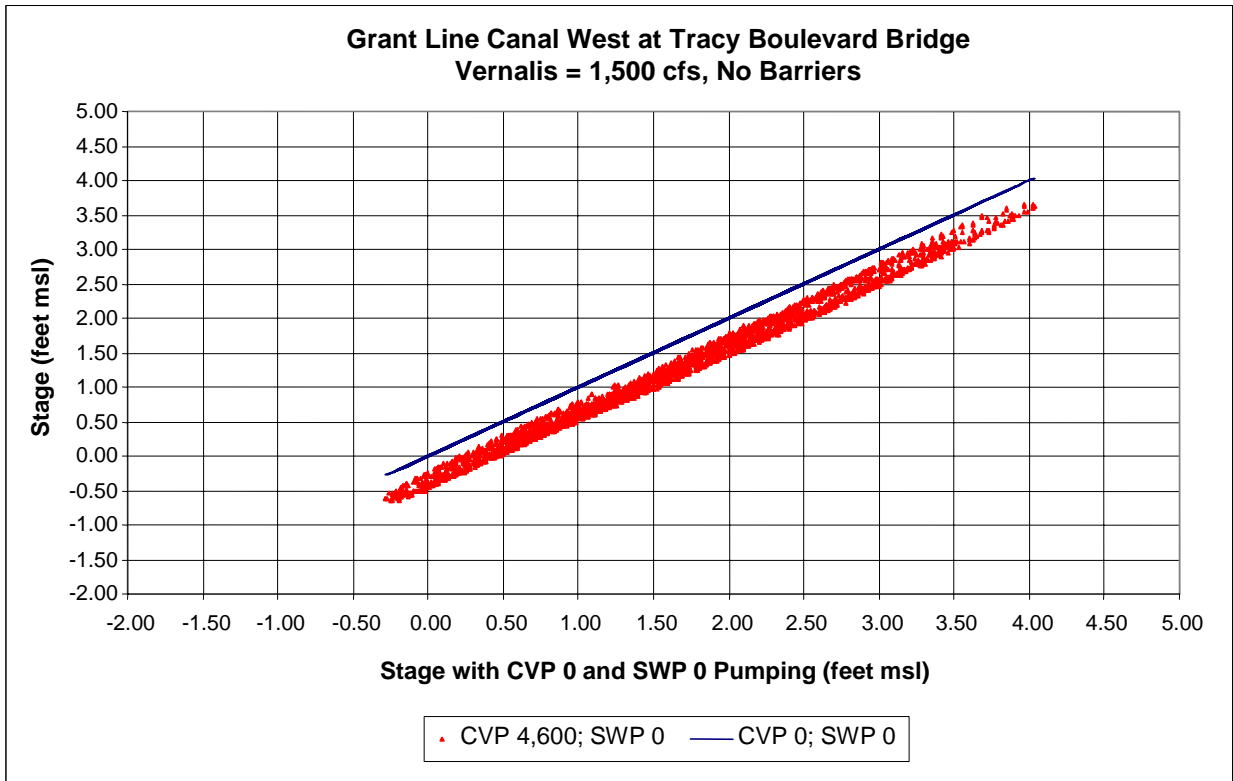
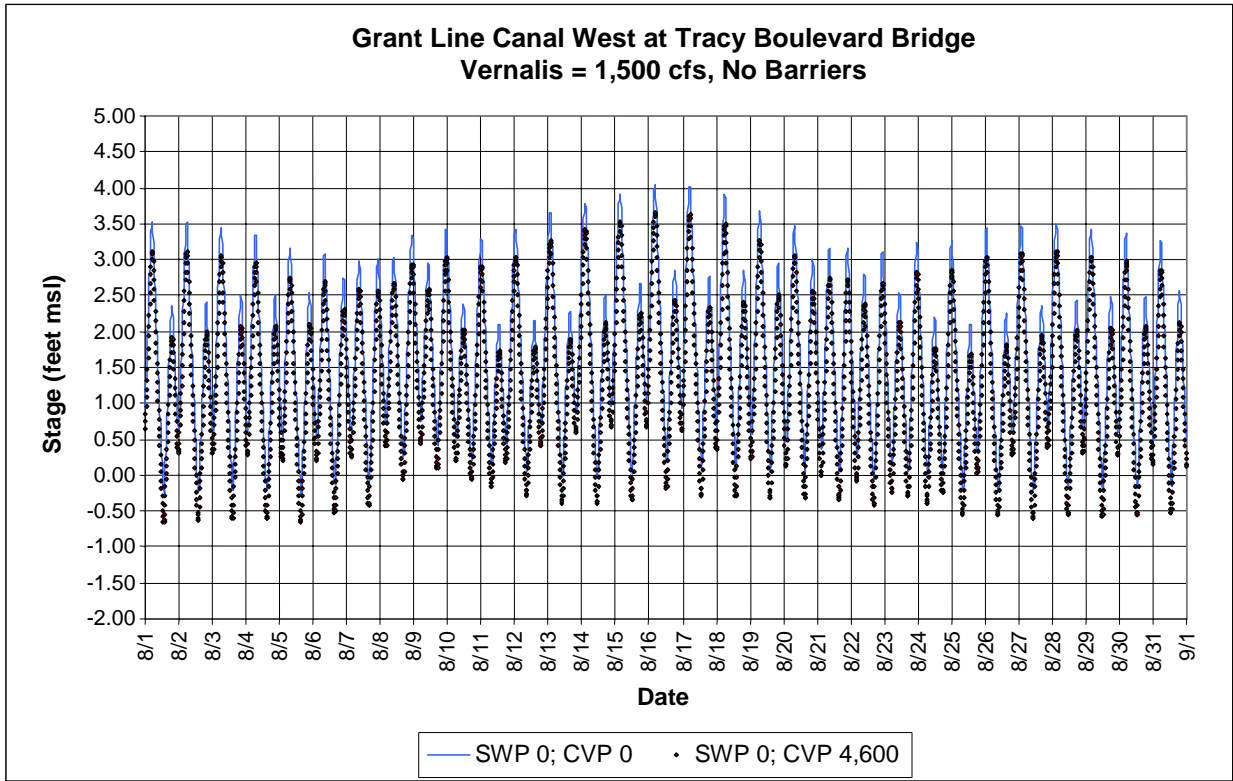
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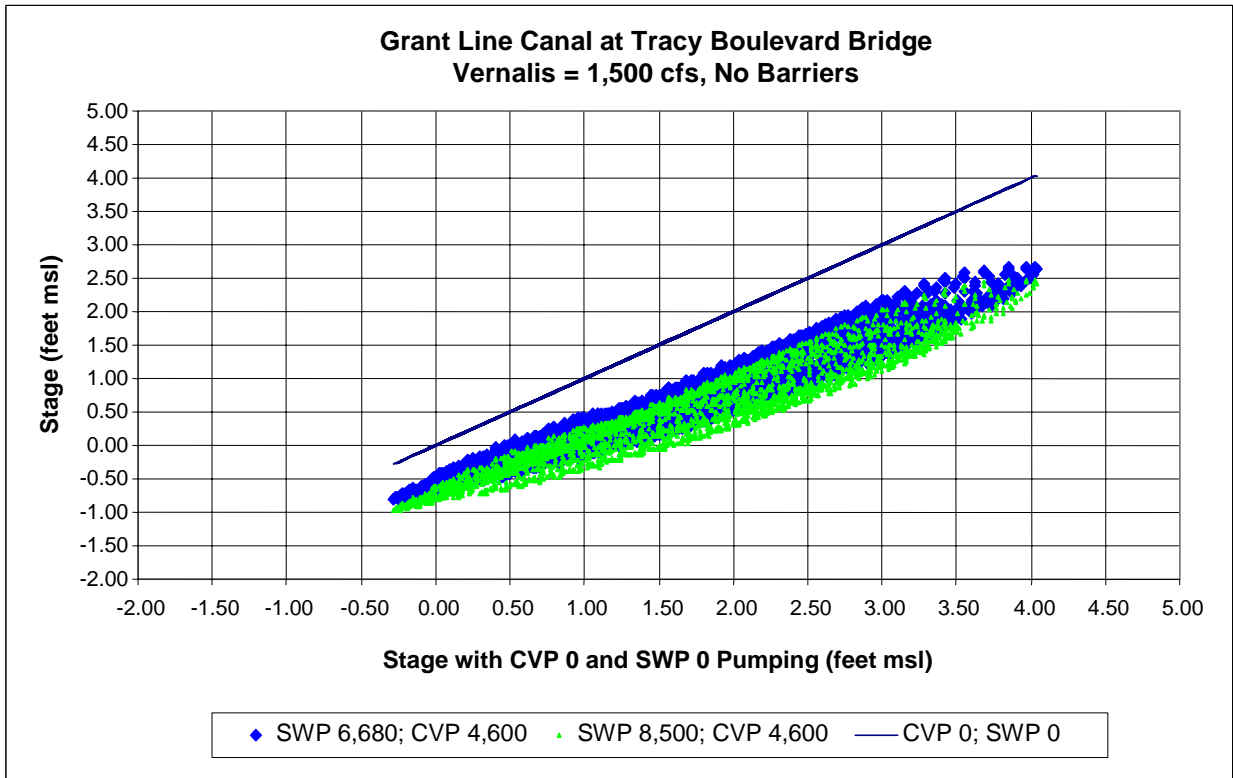
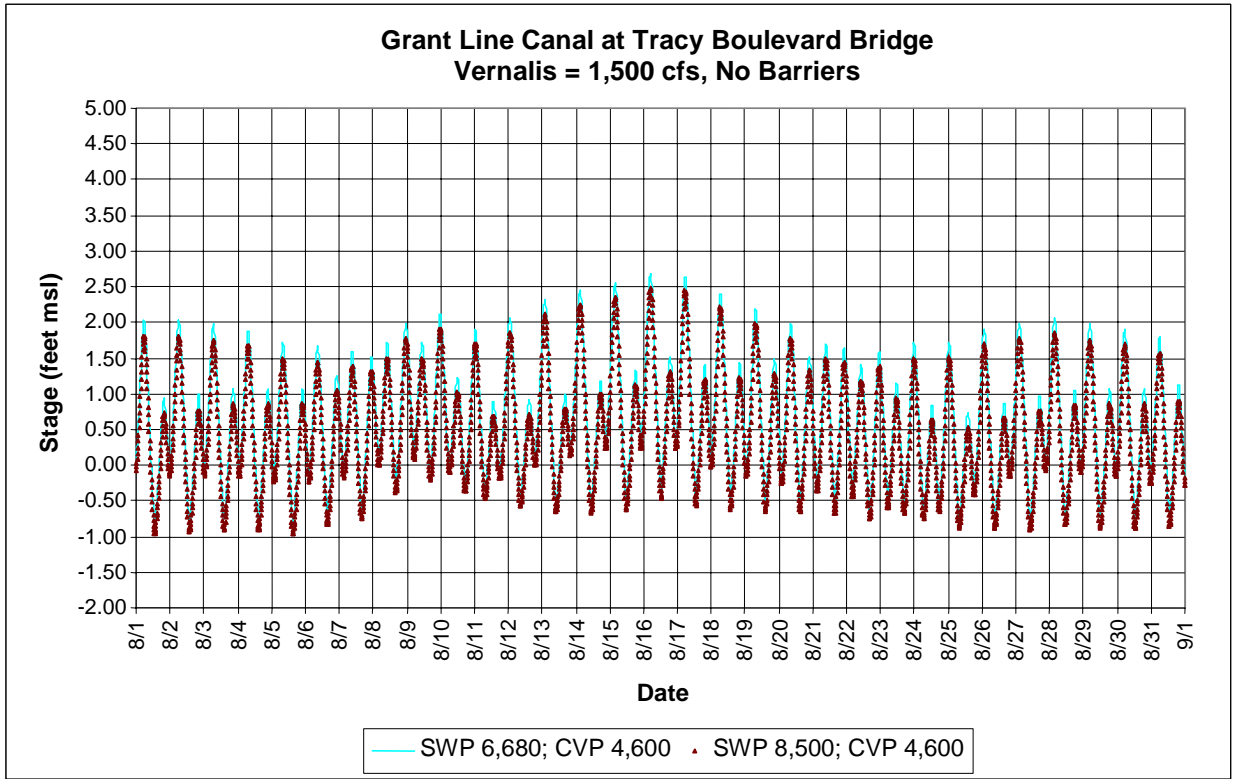
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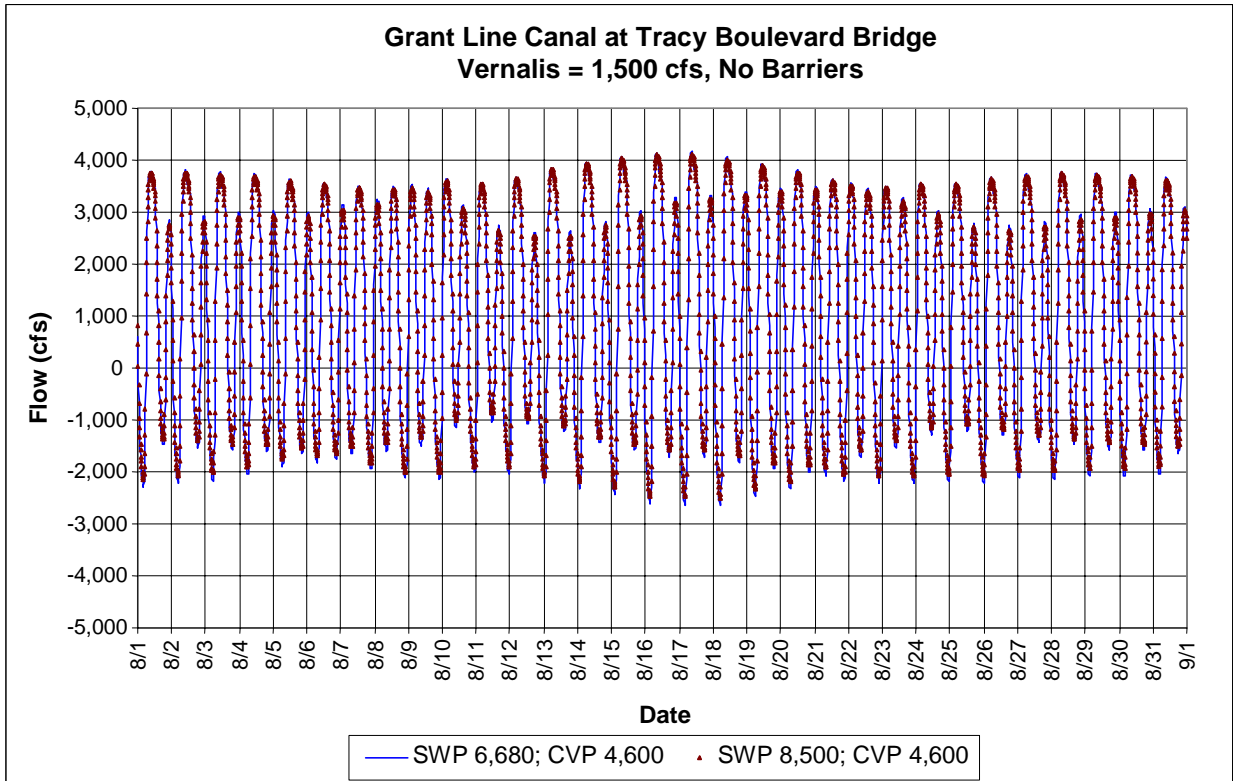
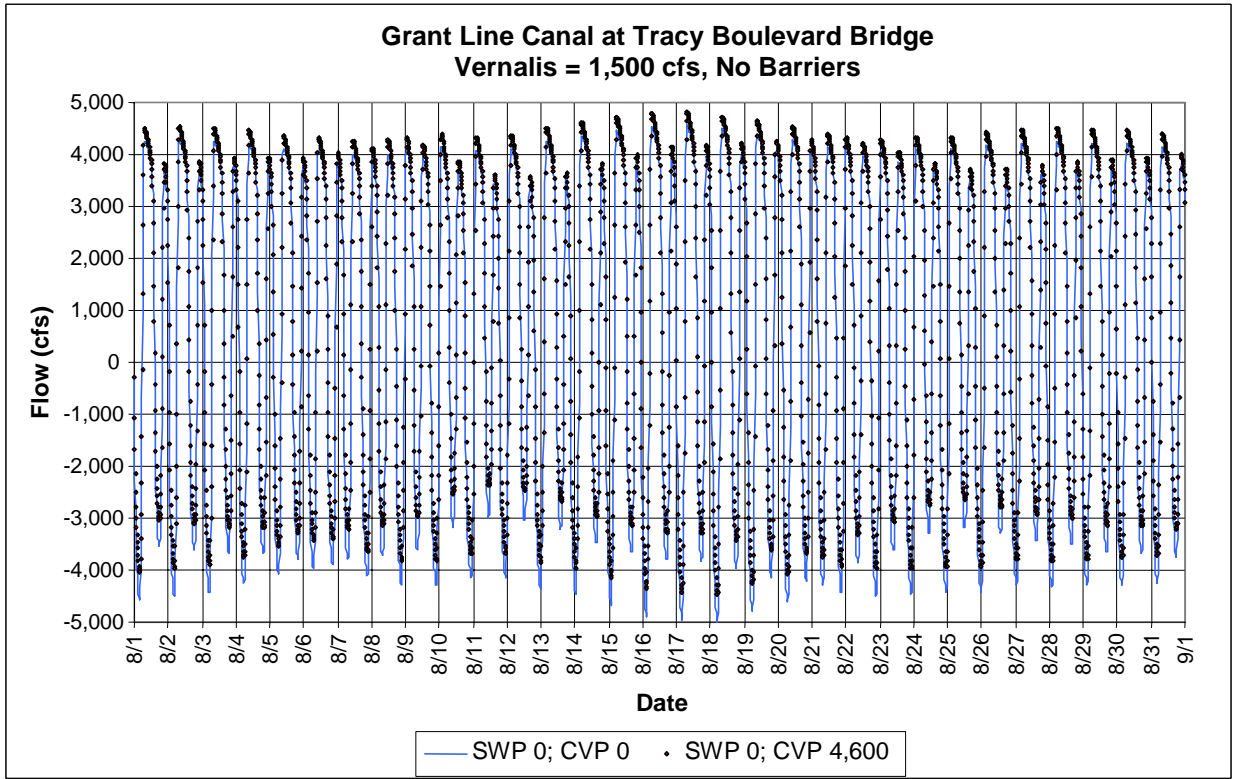
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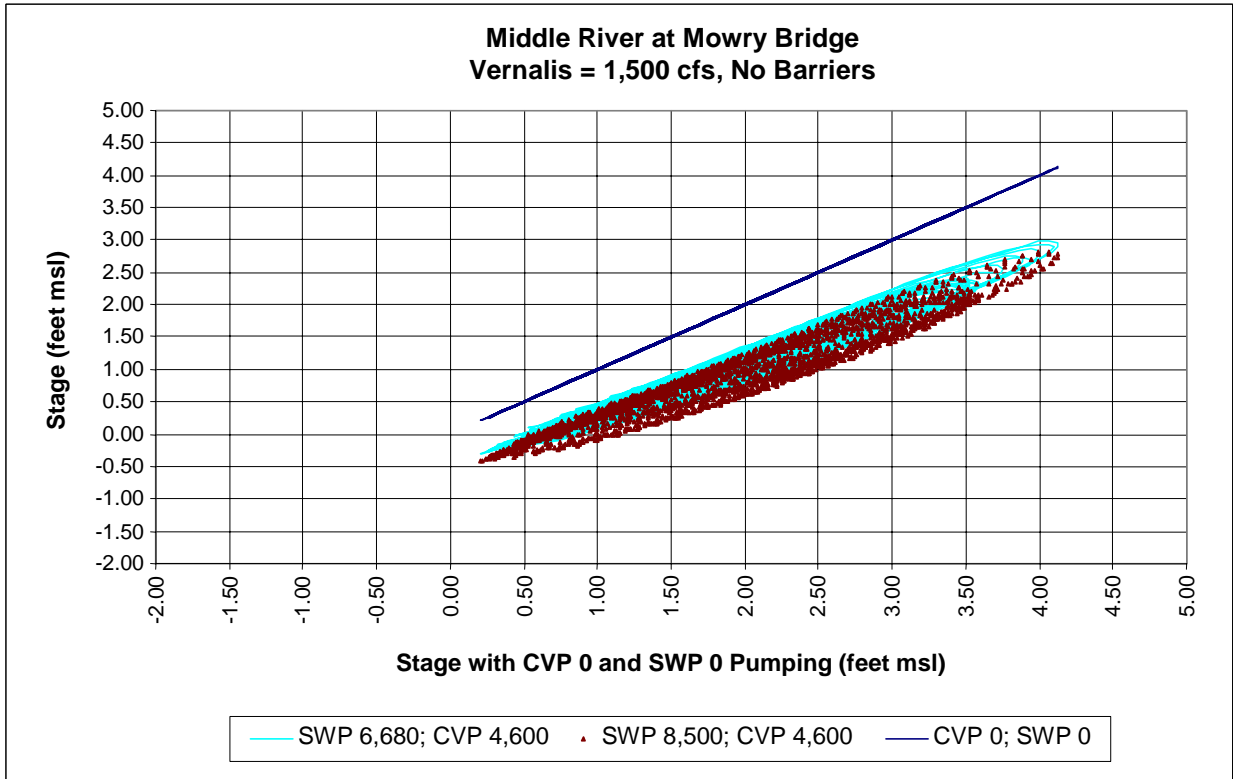
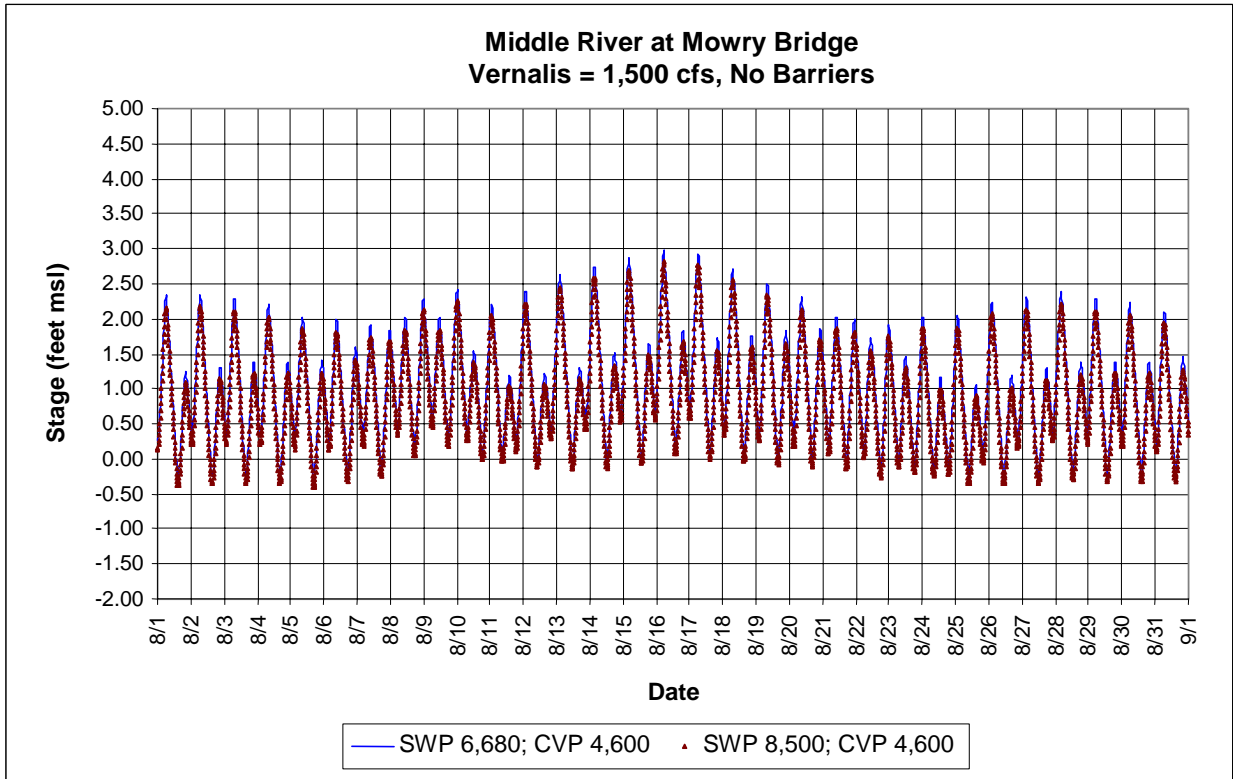
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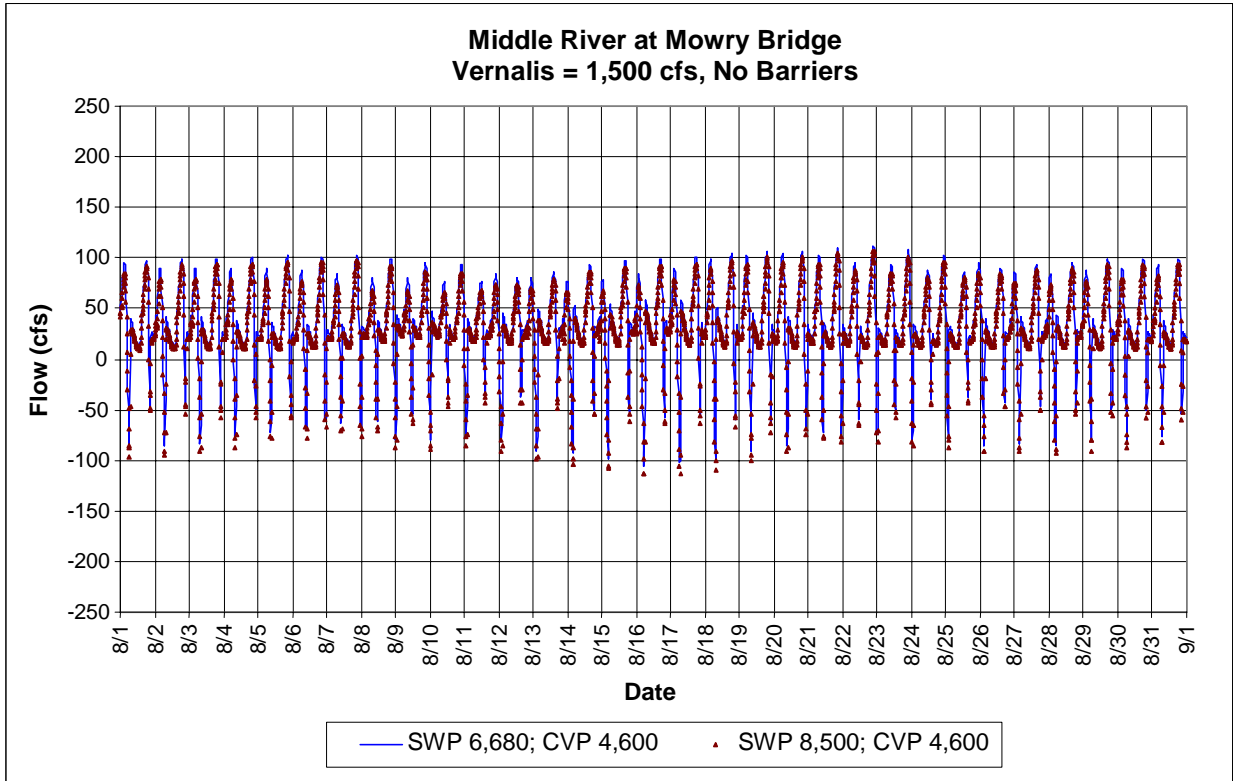
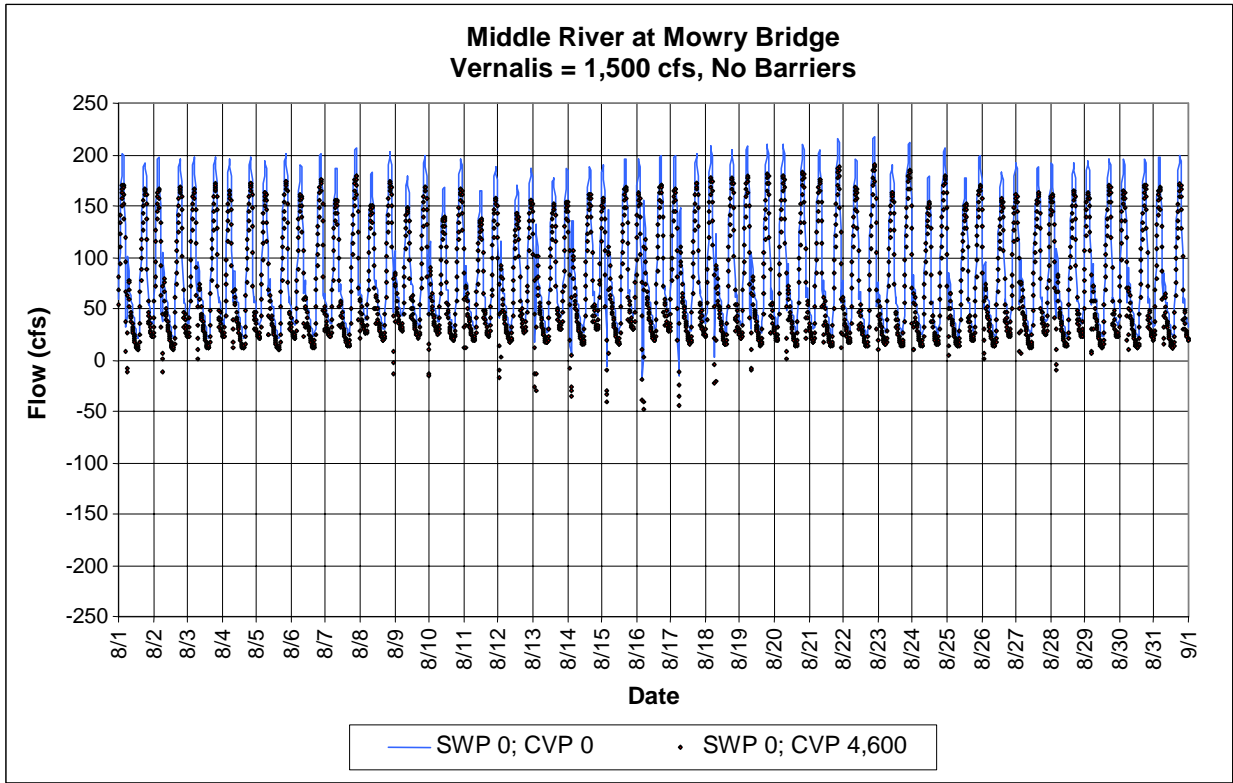
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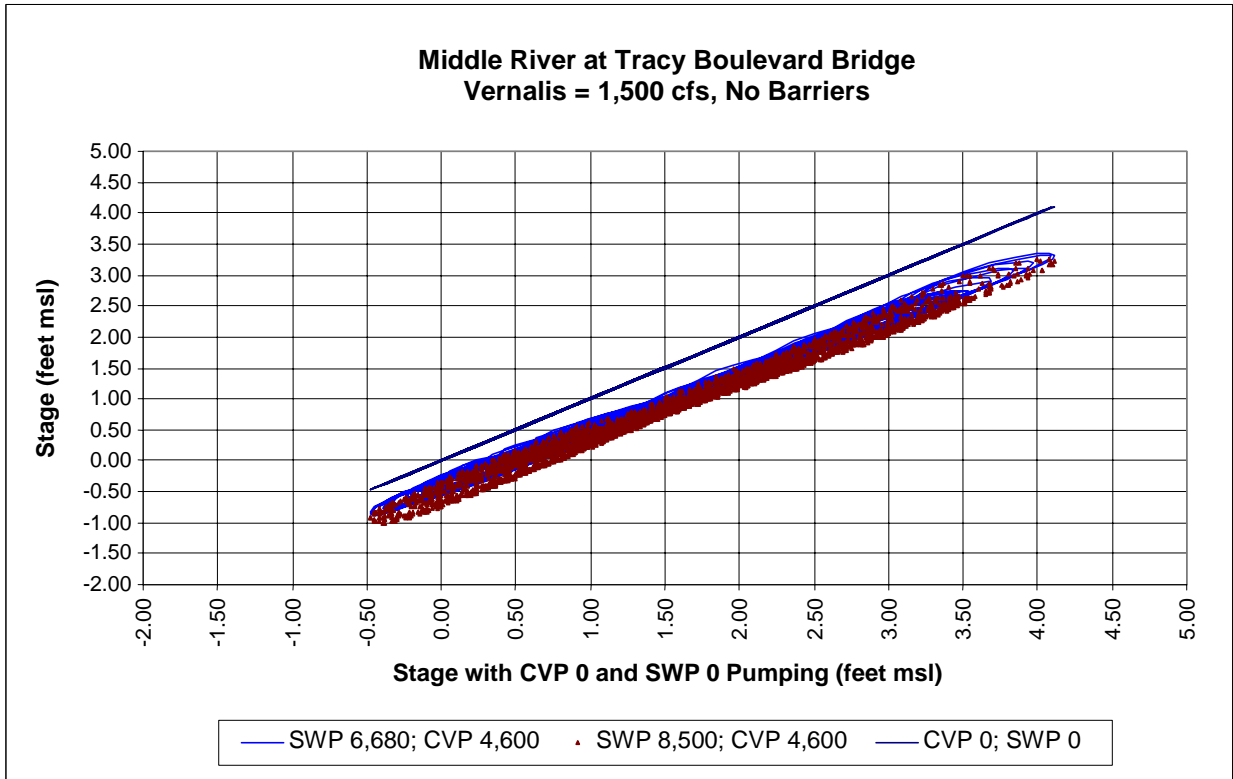
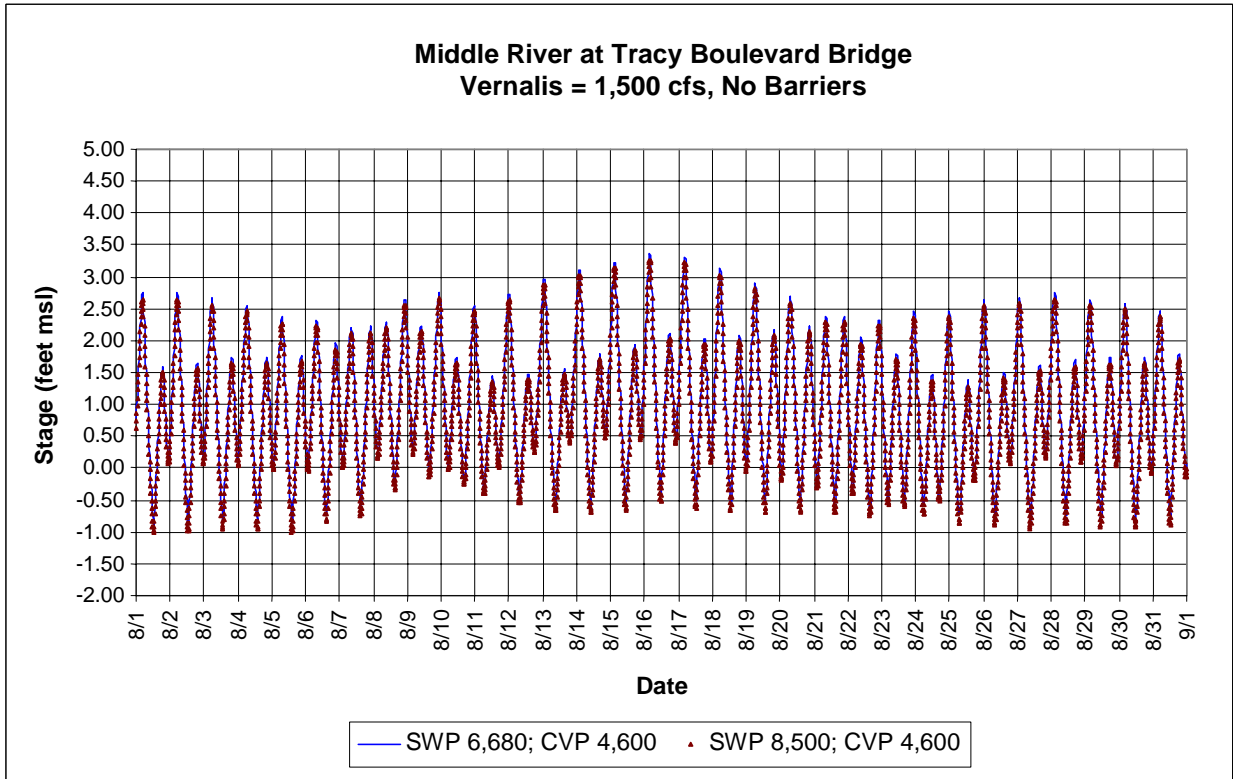
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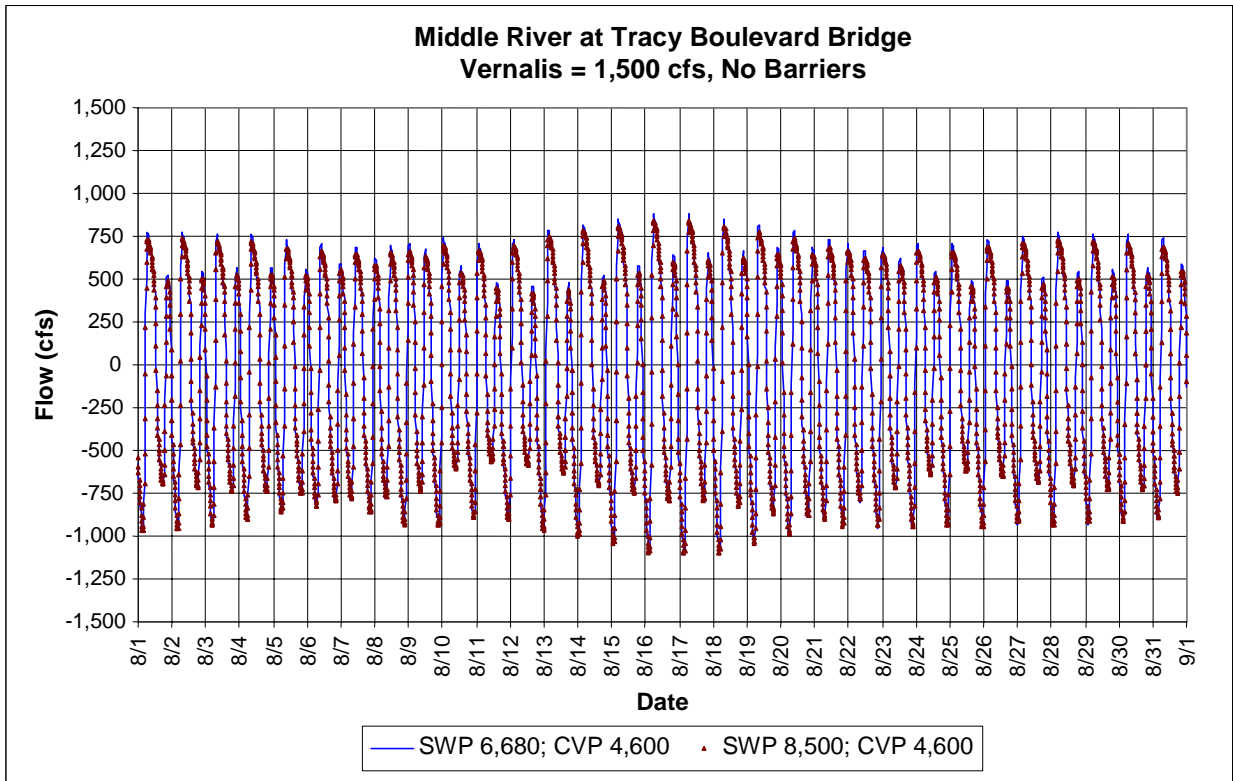
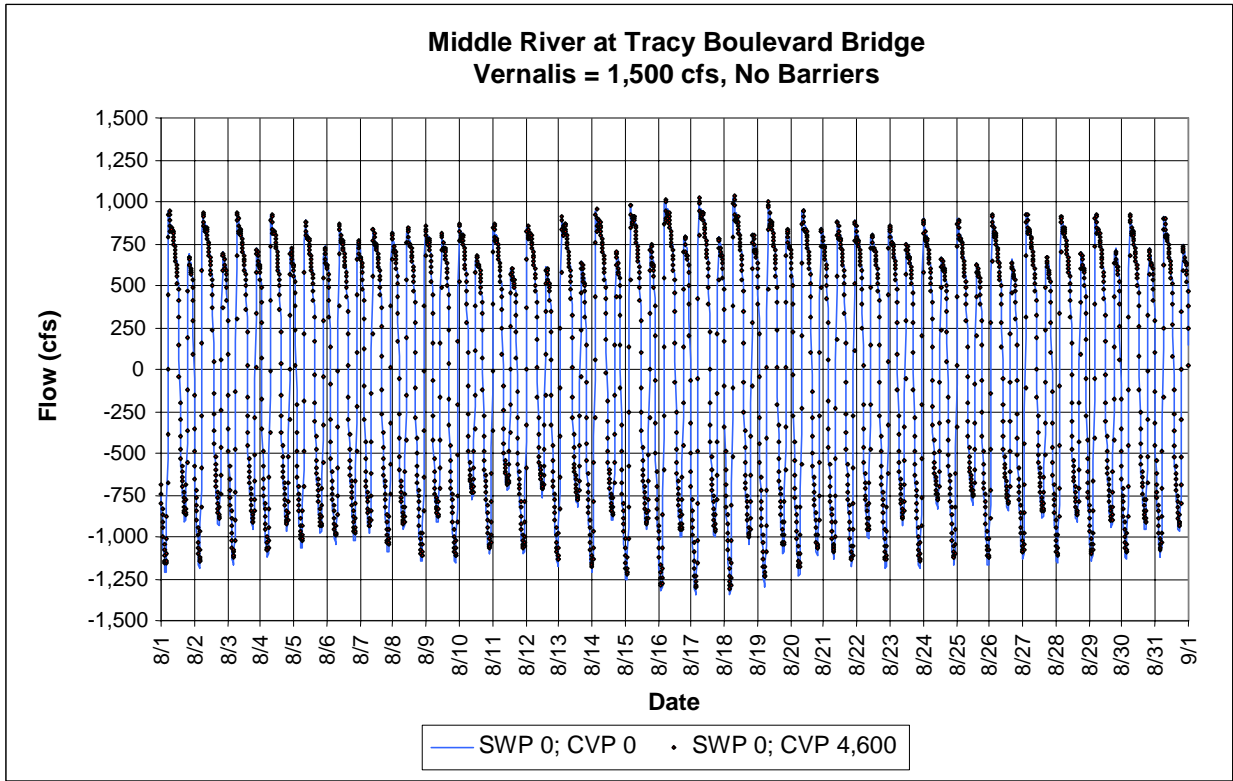
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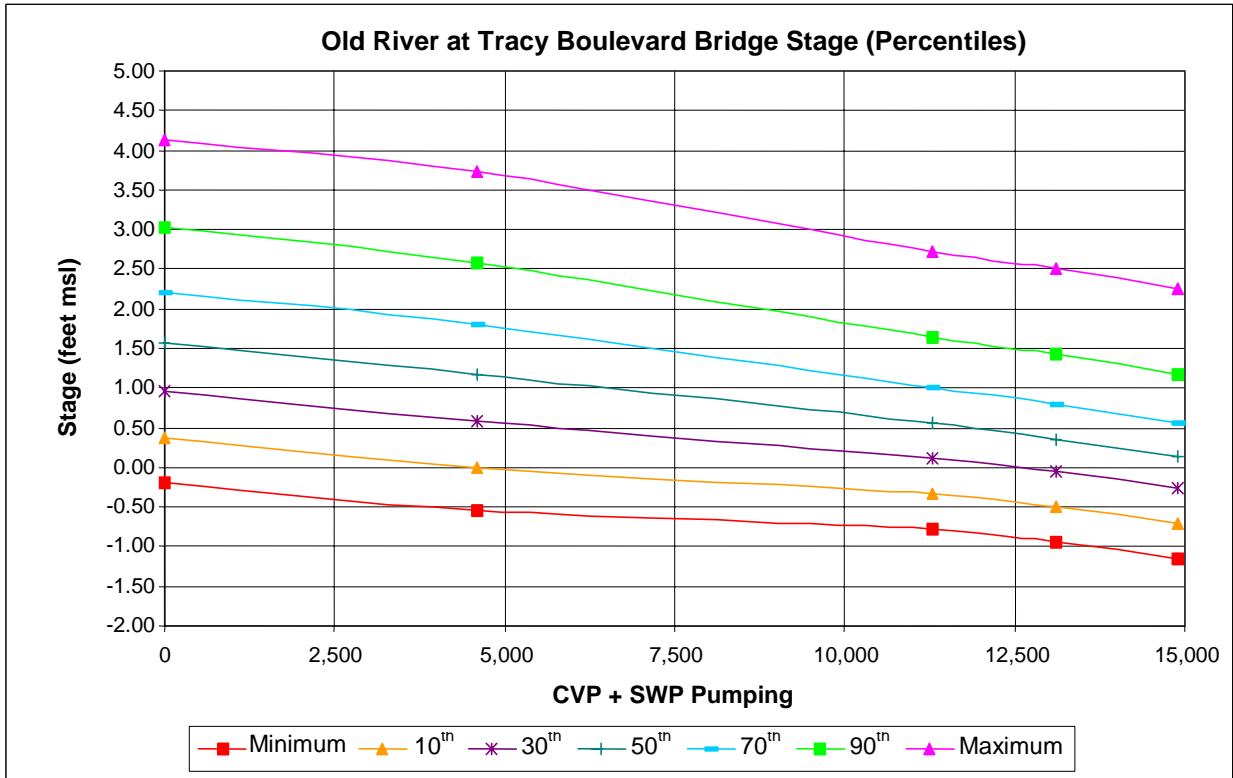
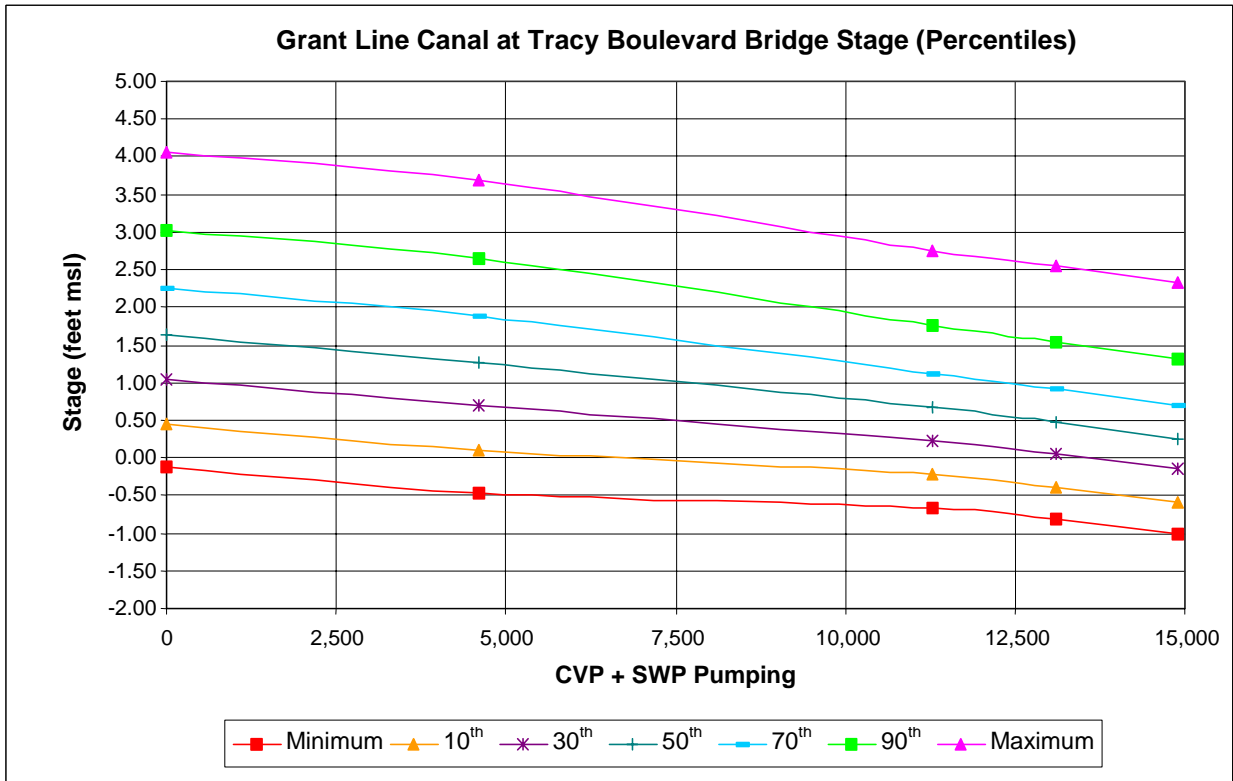
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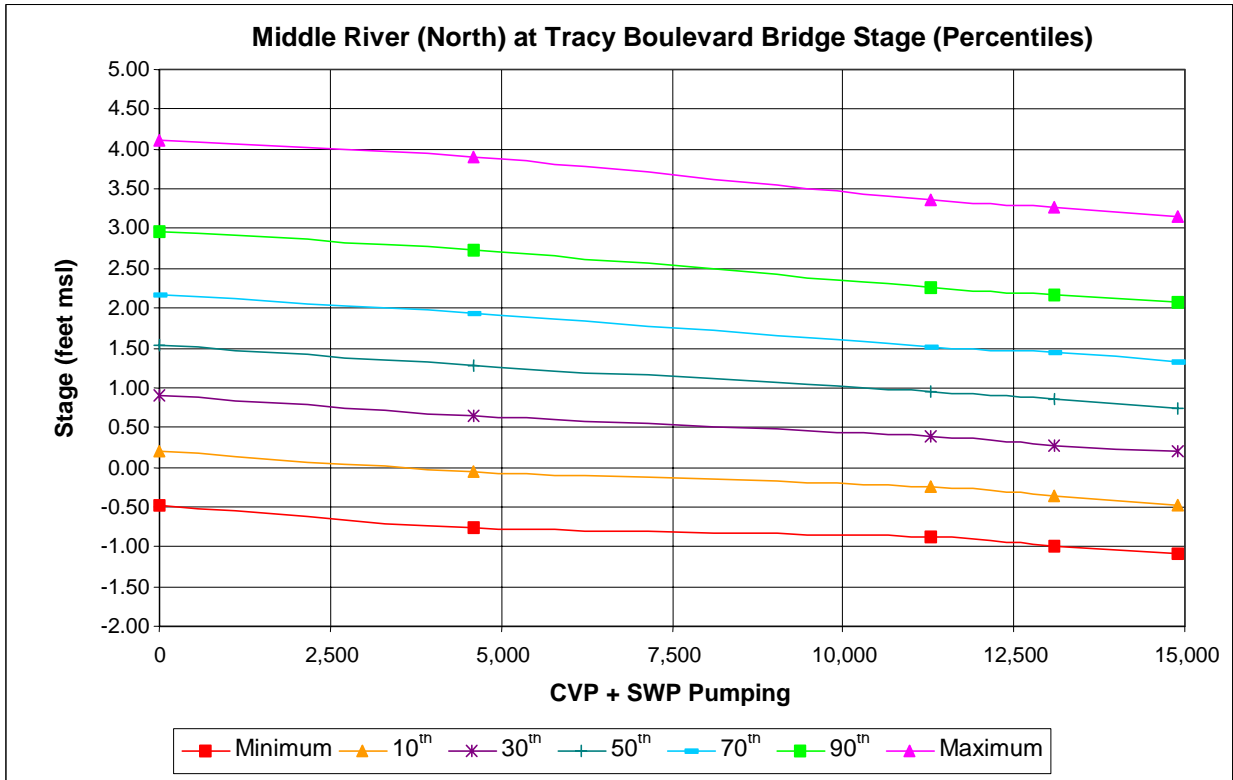
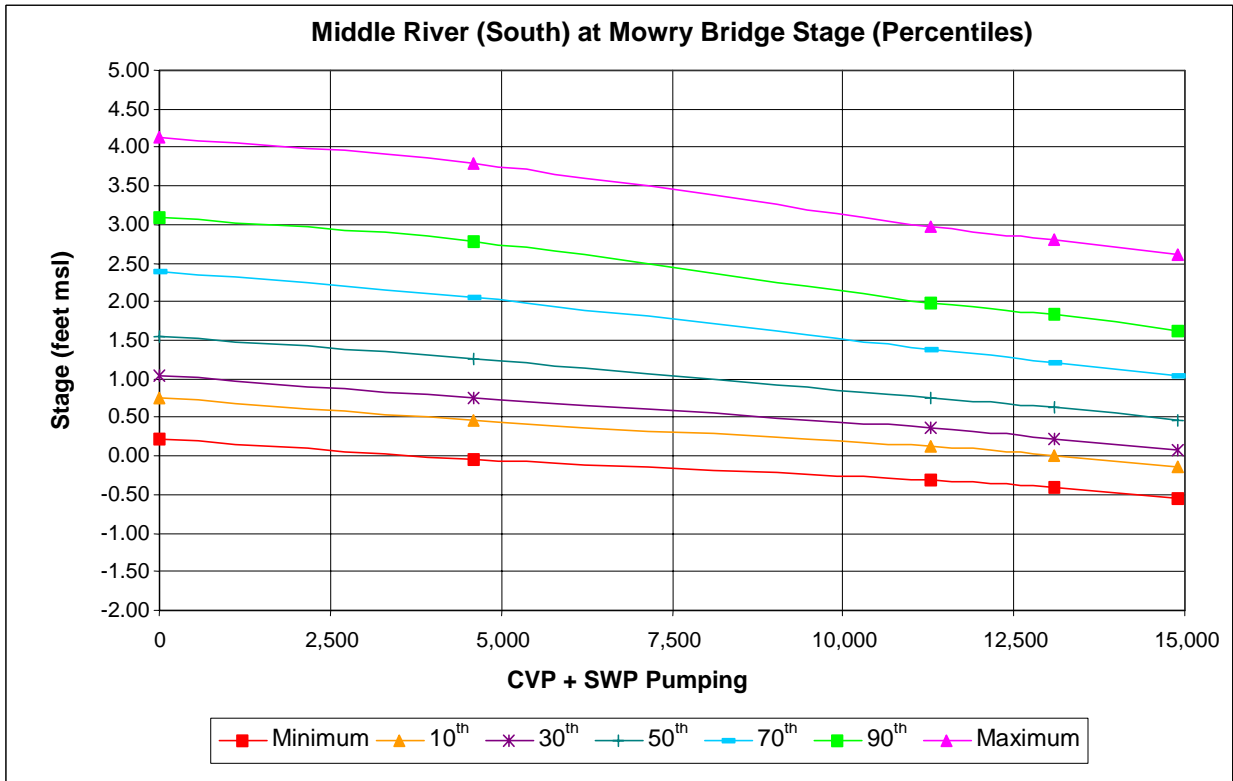


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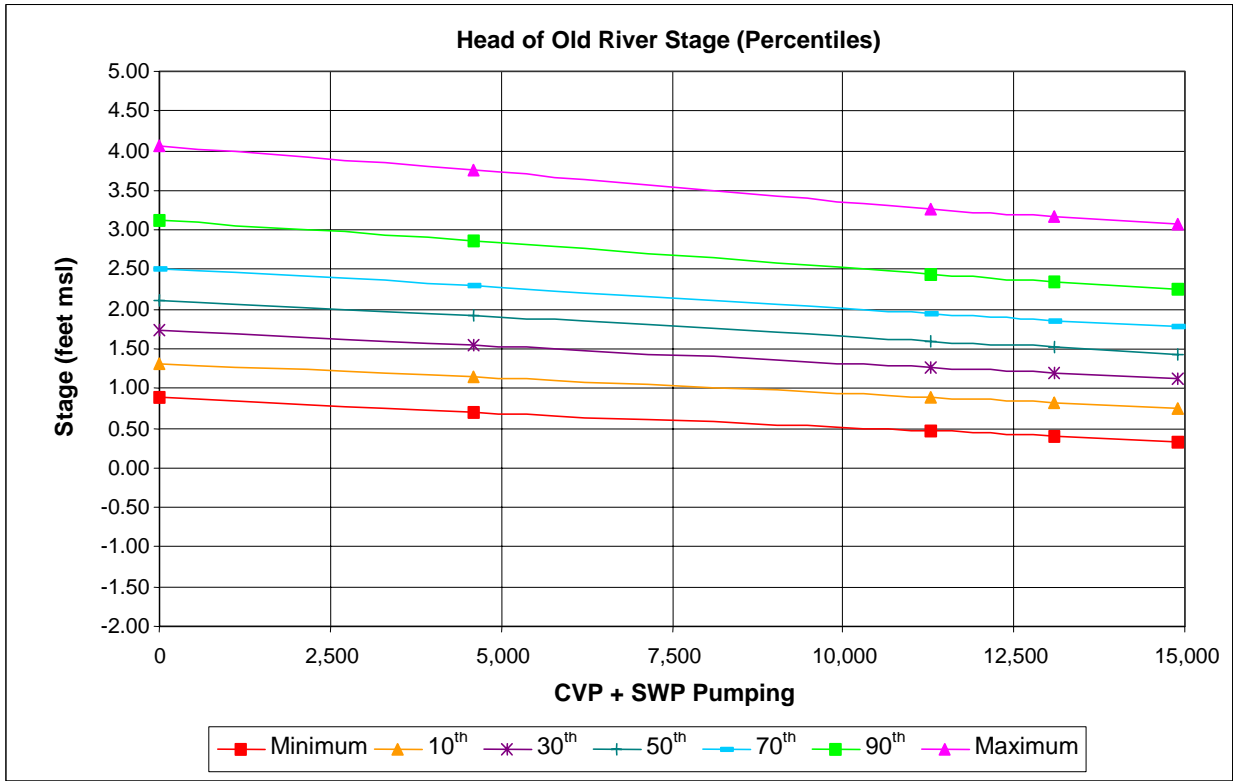
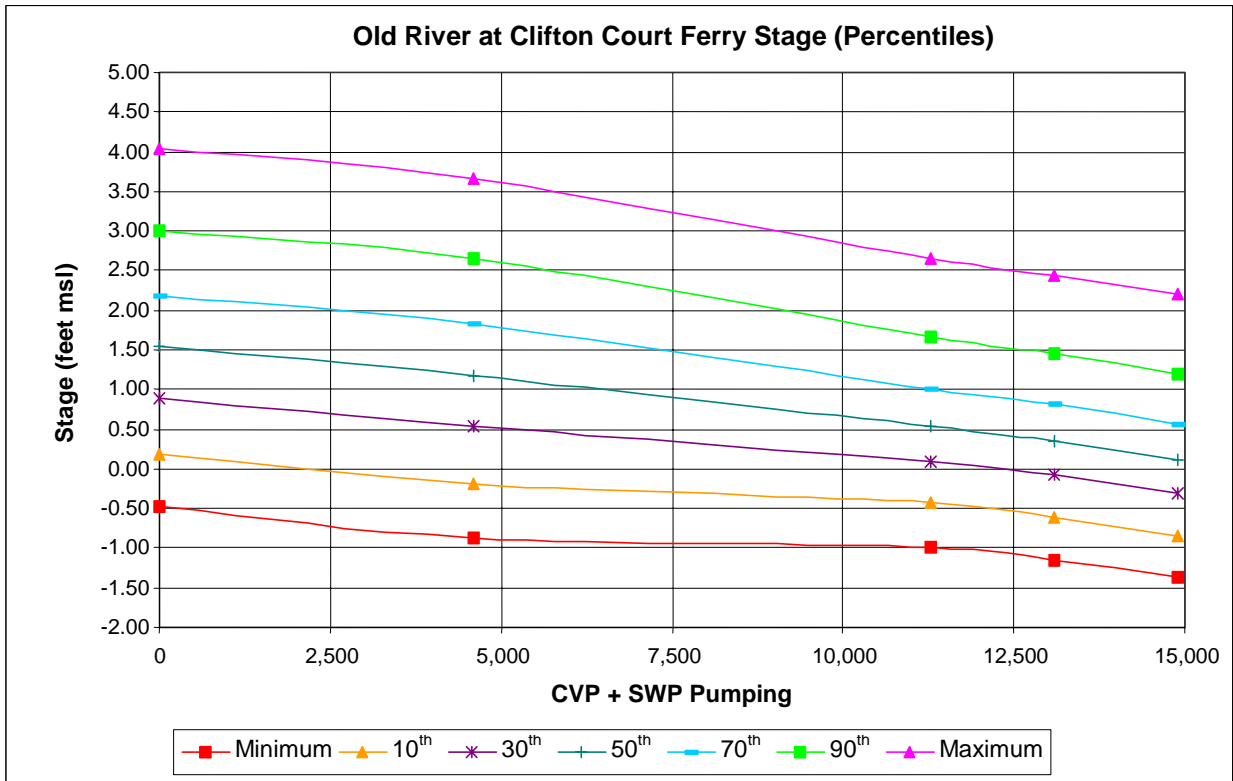
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**Simulated Monthly Water-Surface Elevation (Stage)
in Grant Line Canal and Old River at Tracy Boulevard Bridge
for Combined CVP and SWP Pumping**

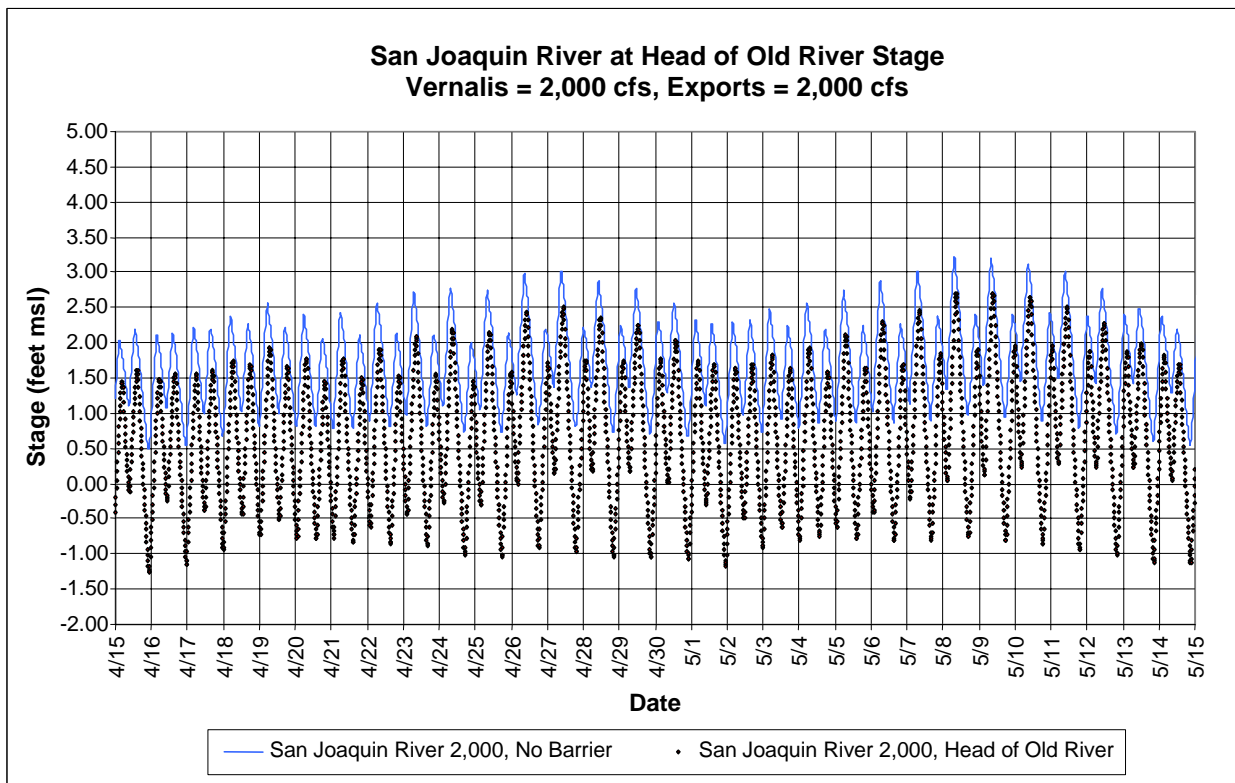
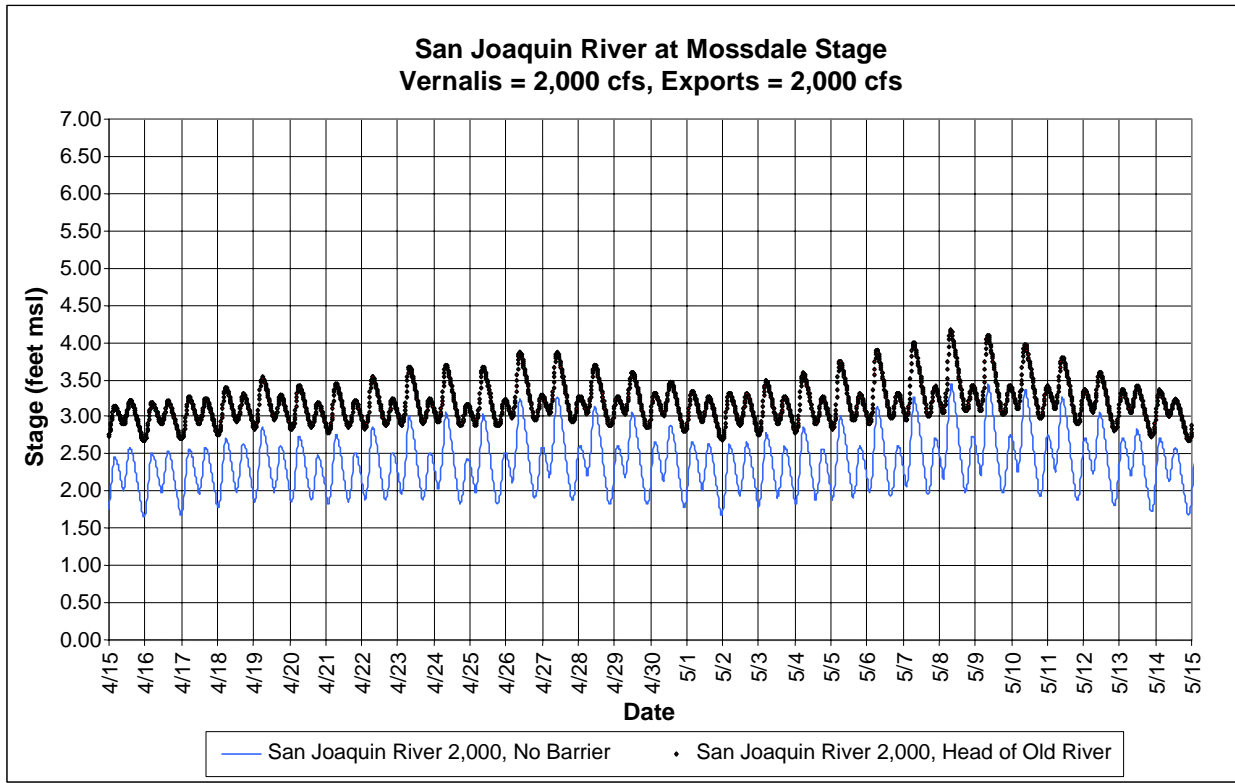


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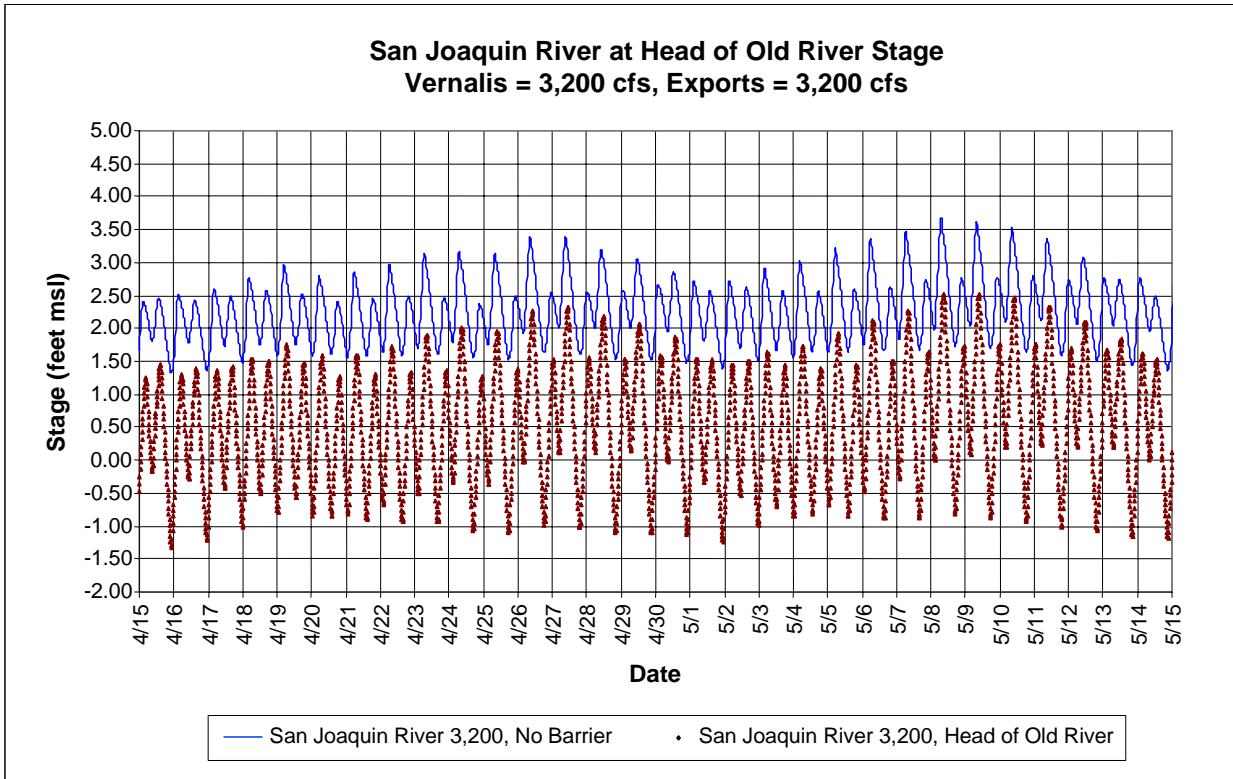
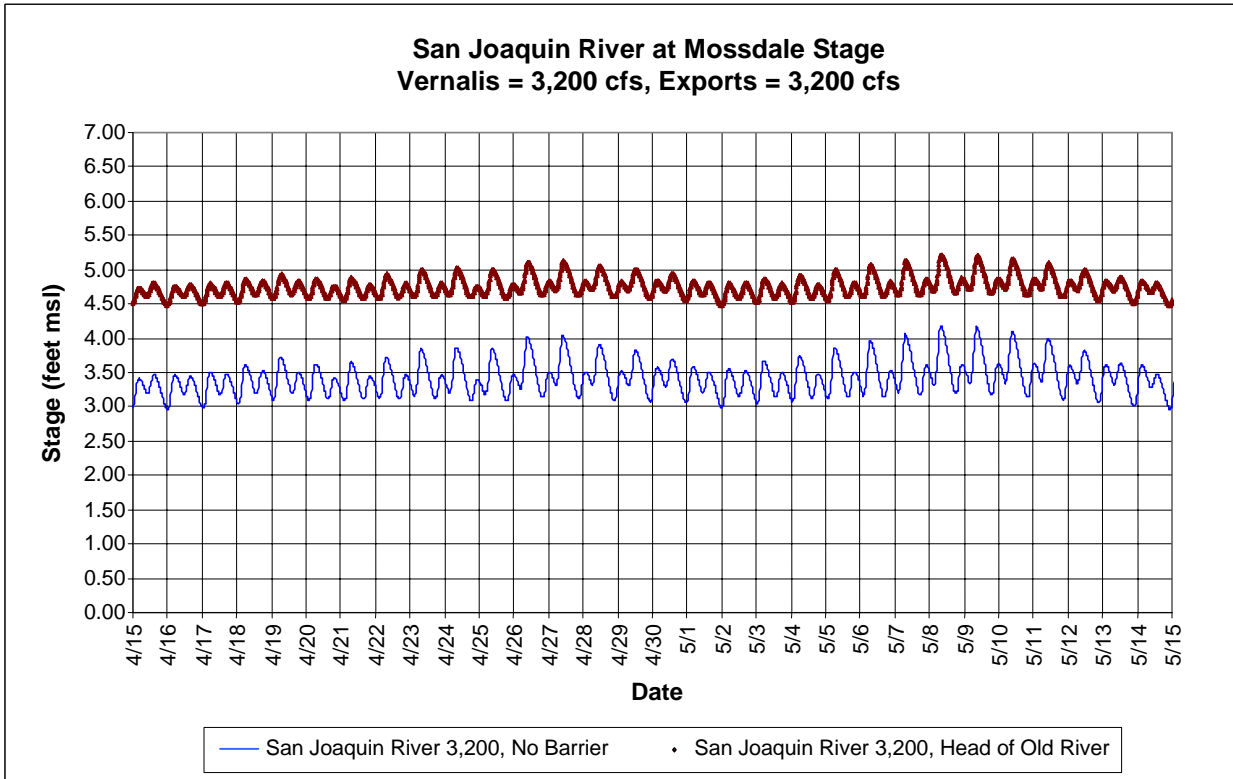
**Simulated Monthly Water-Surface Elevation (Stage)
in Middle River at Mowry and Tracy Boulevard Bridges
for Combined CVP and SWP Pumping**



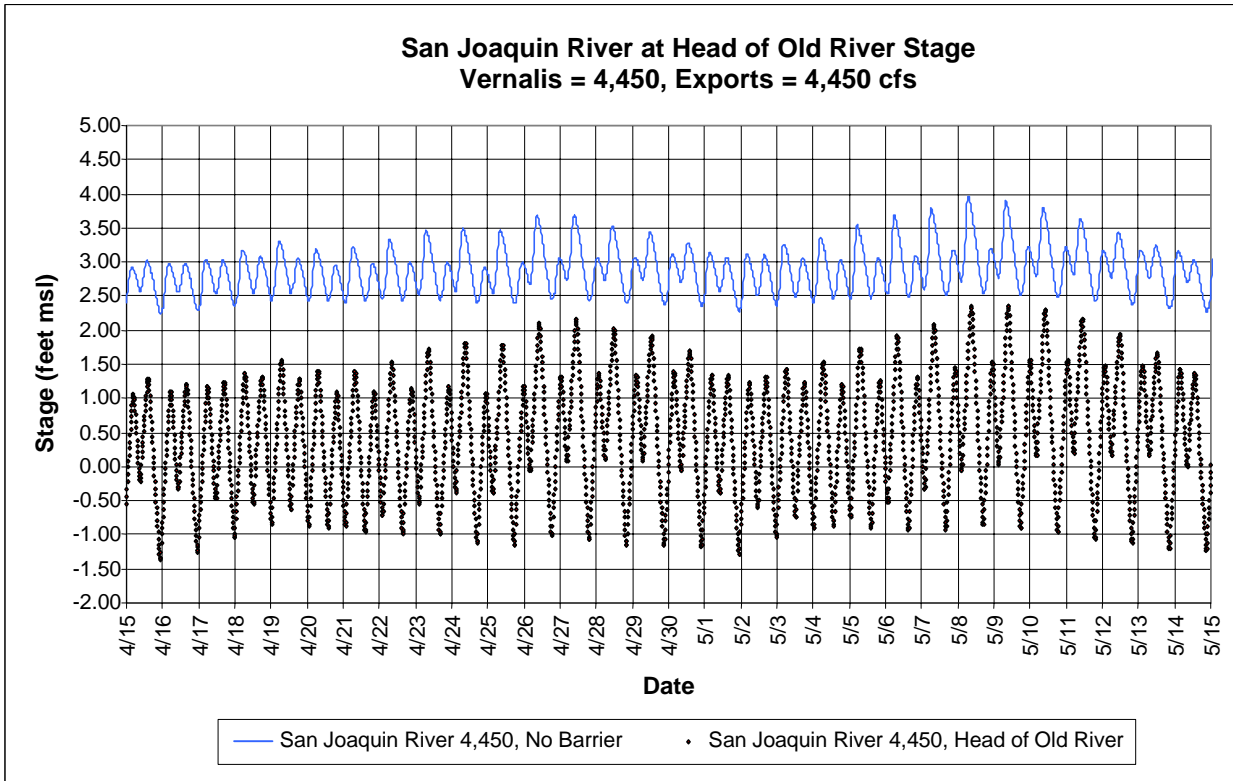
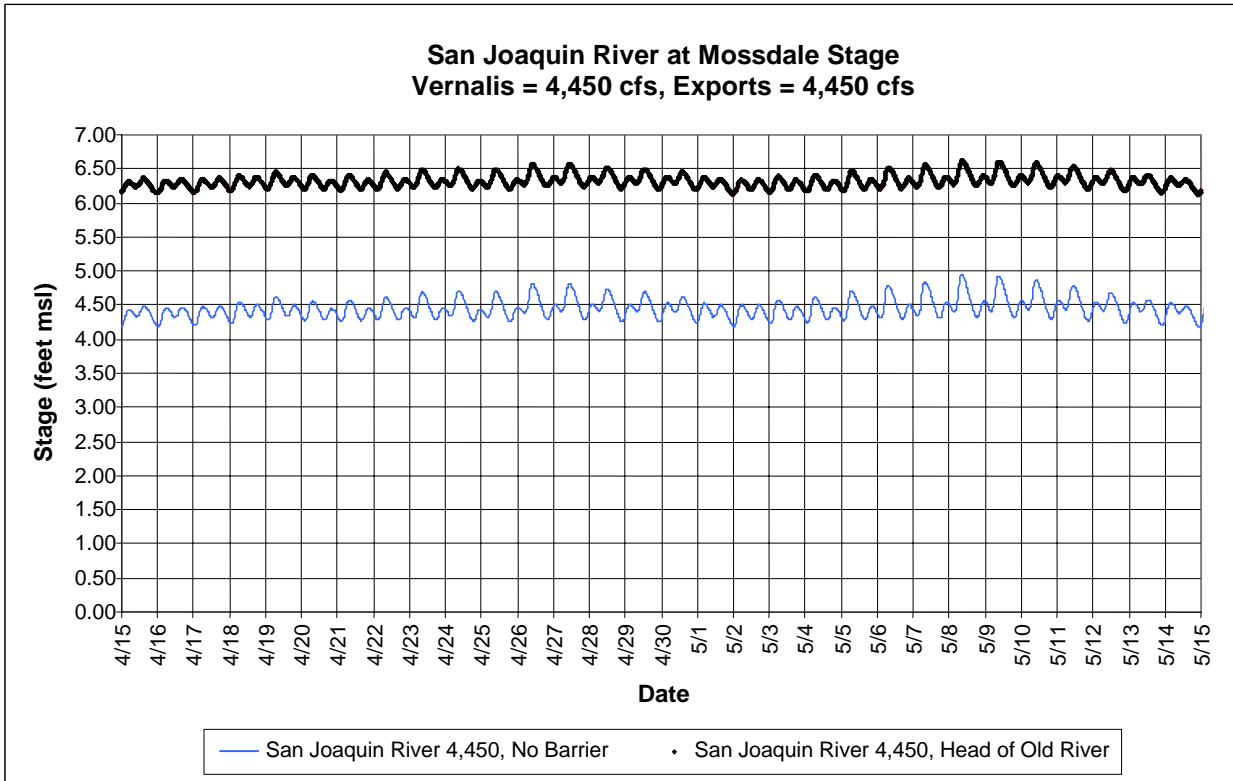
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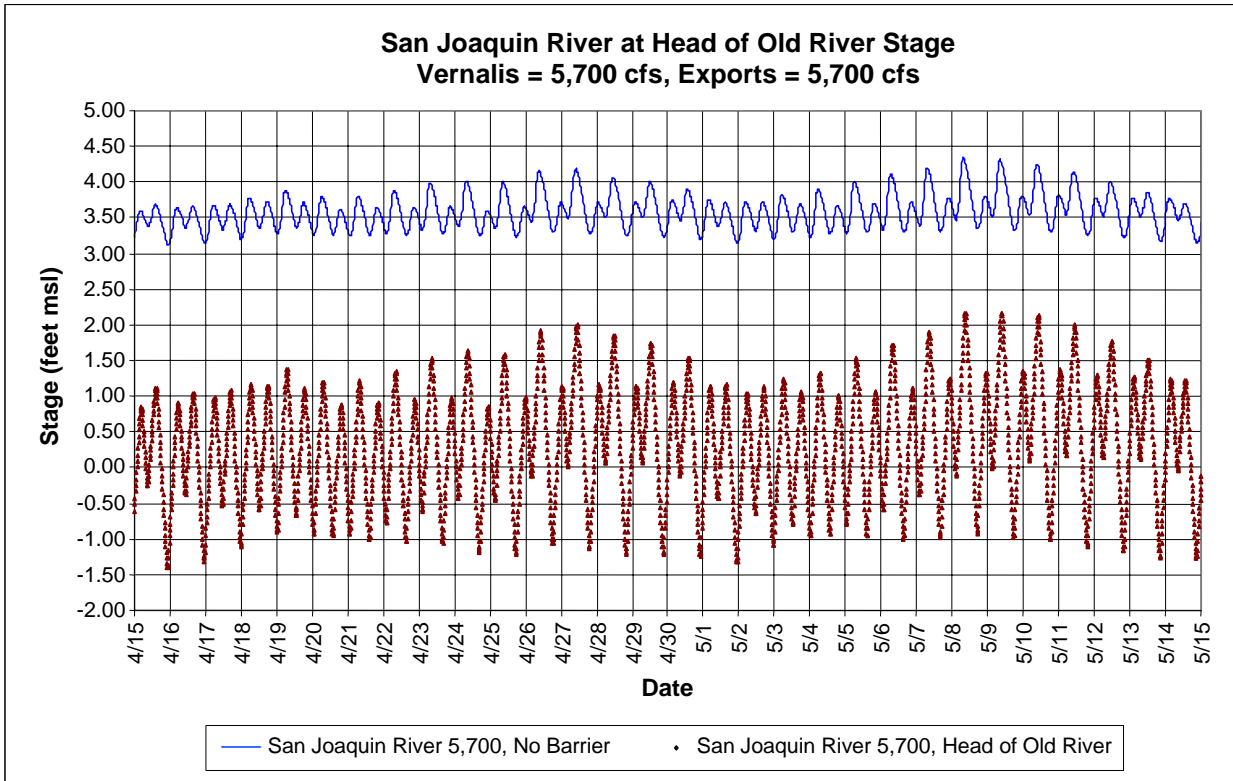
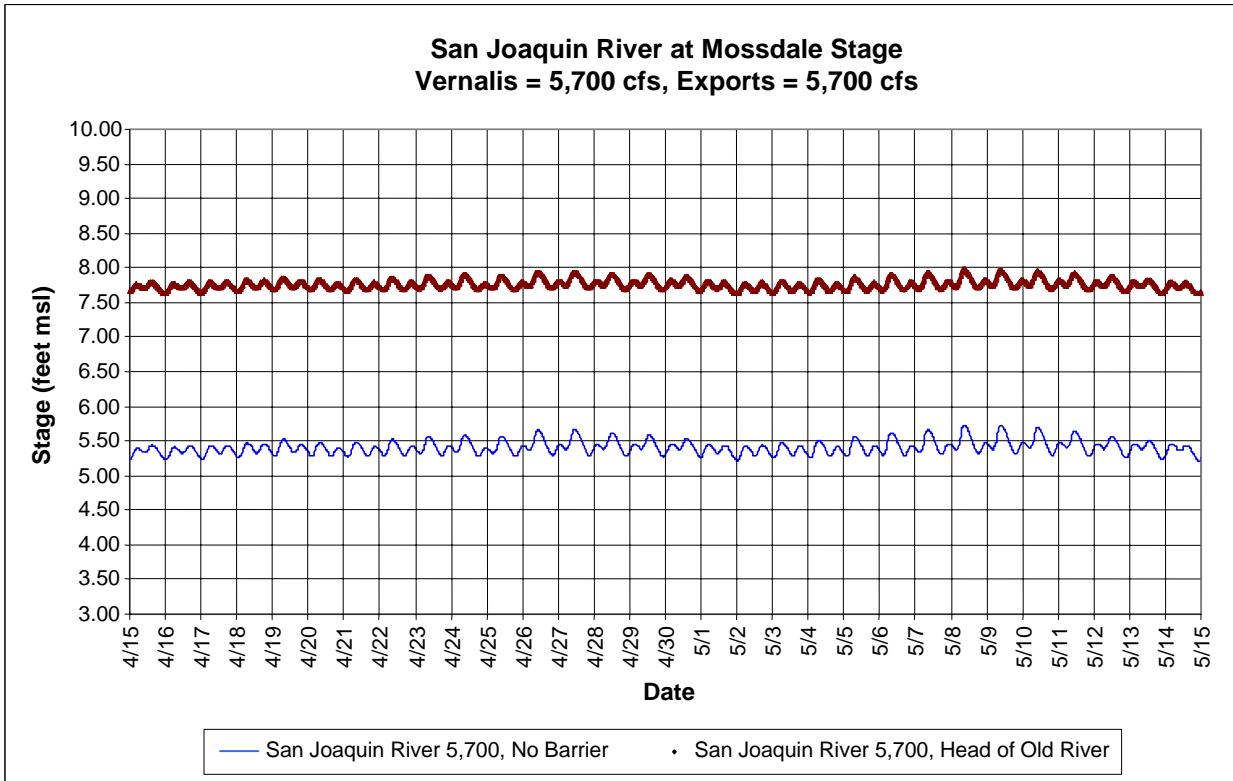
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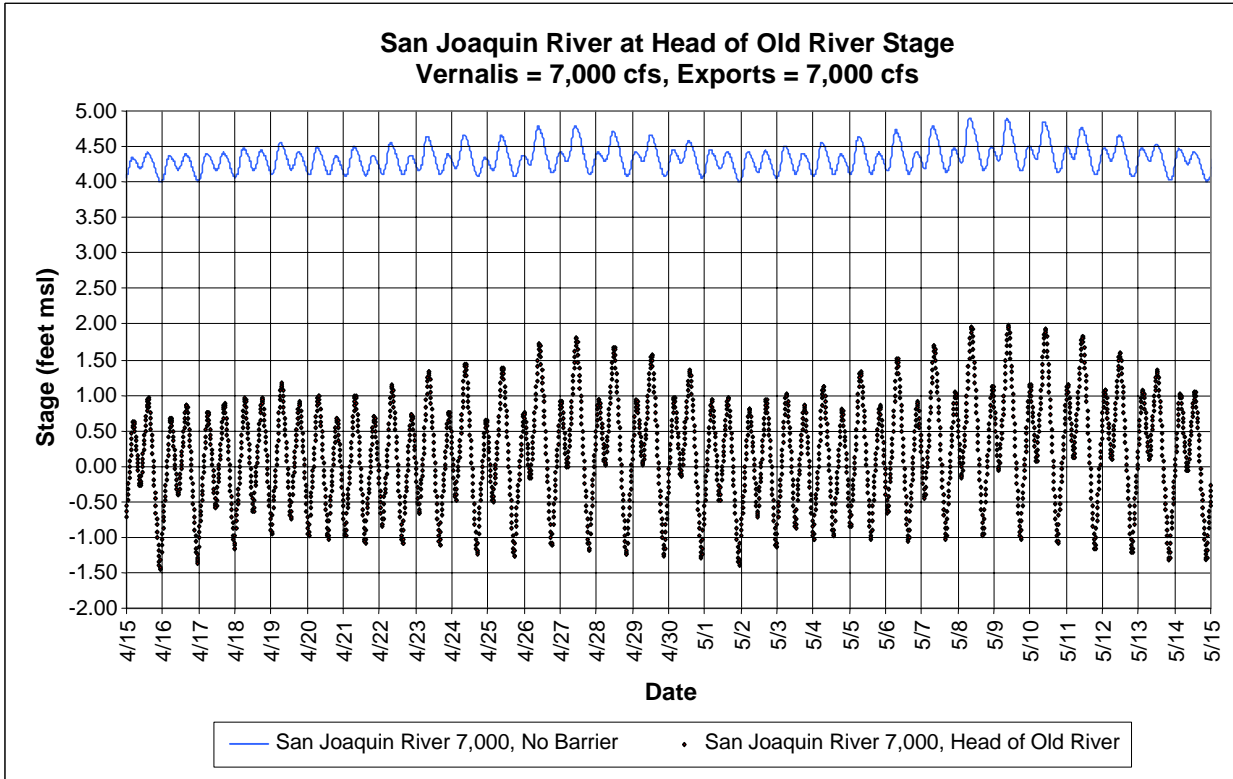
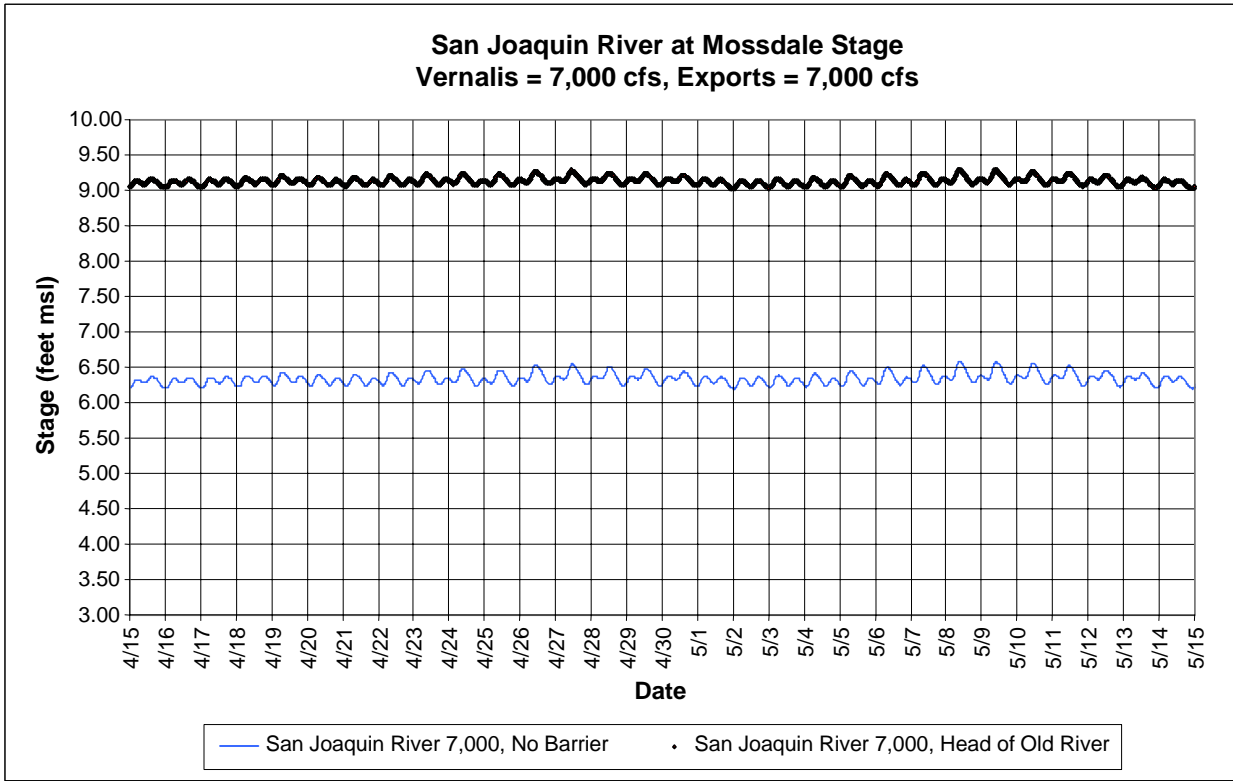
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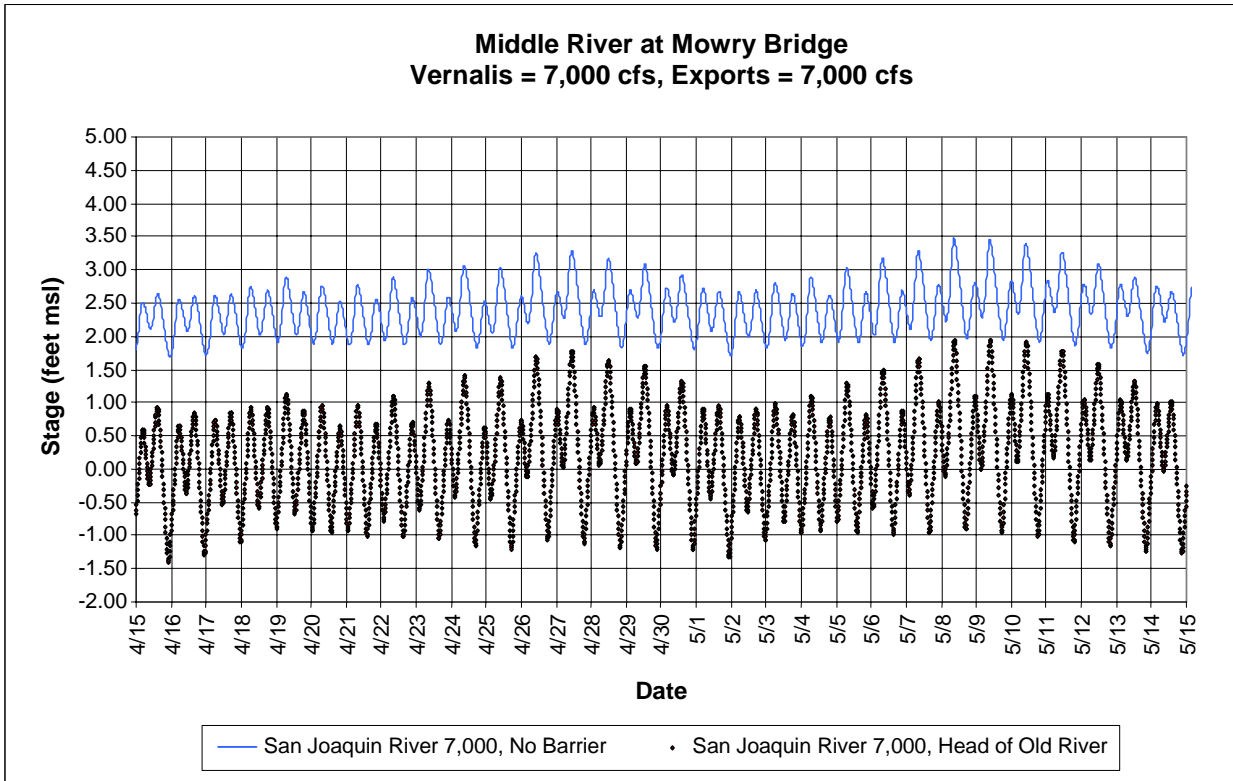
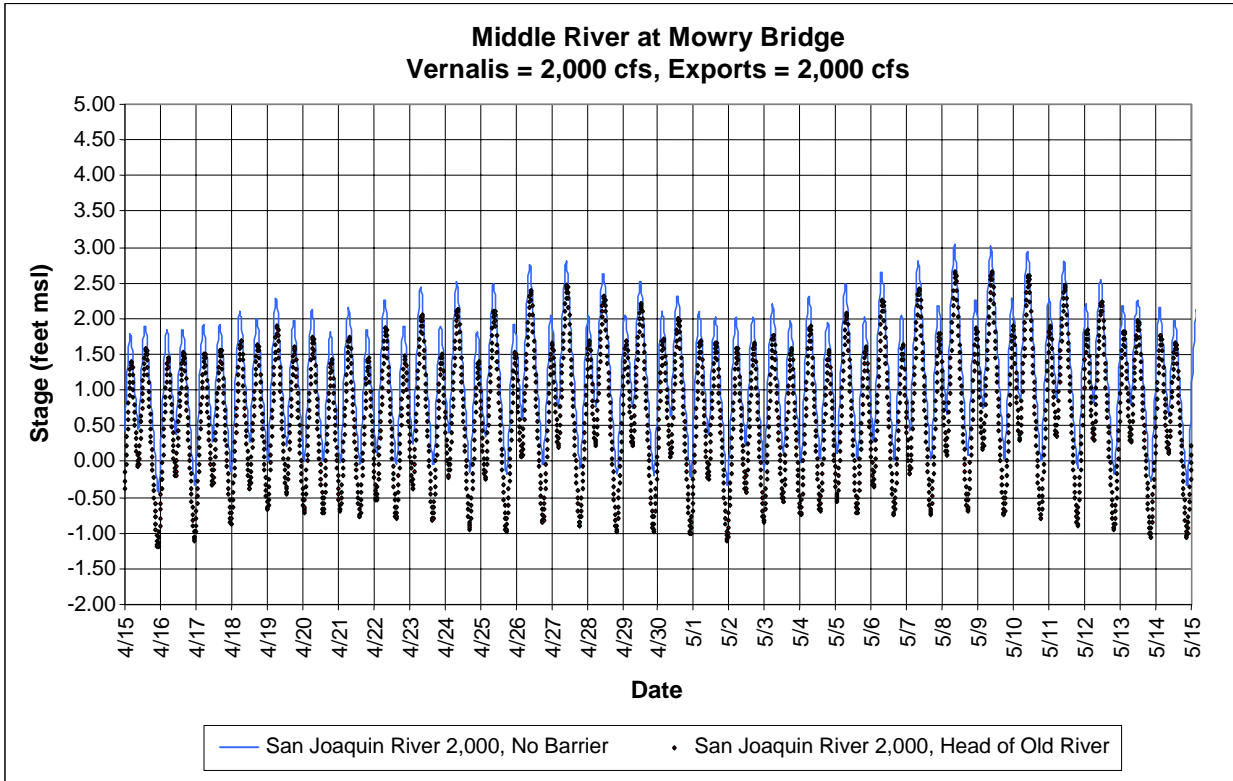
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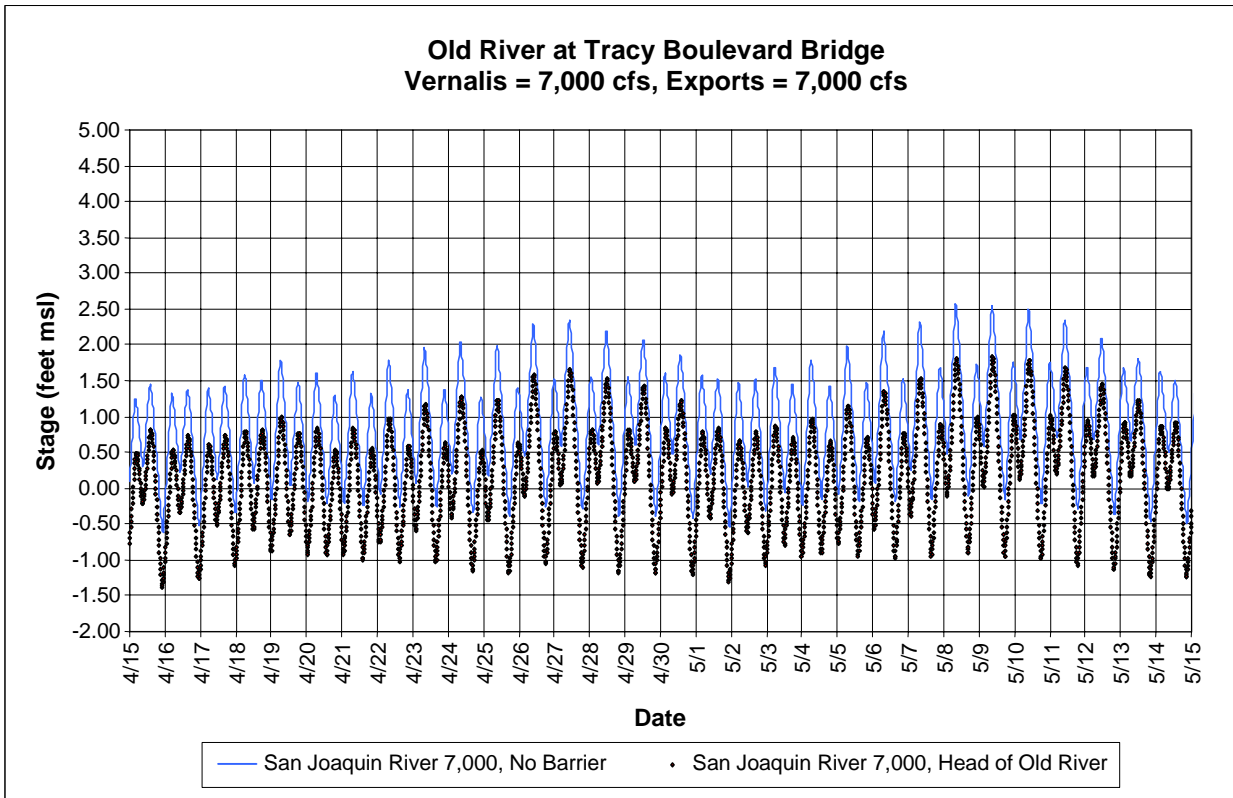
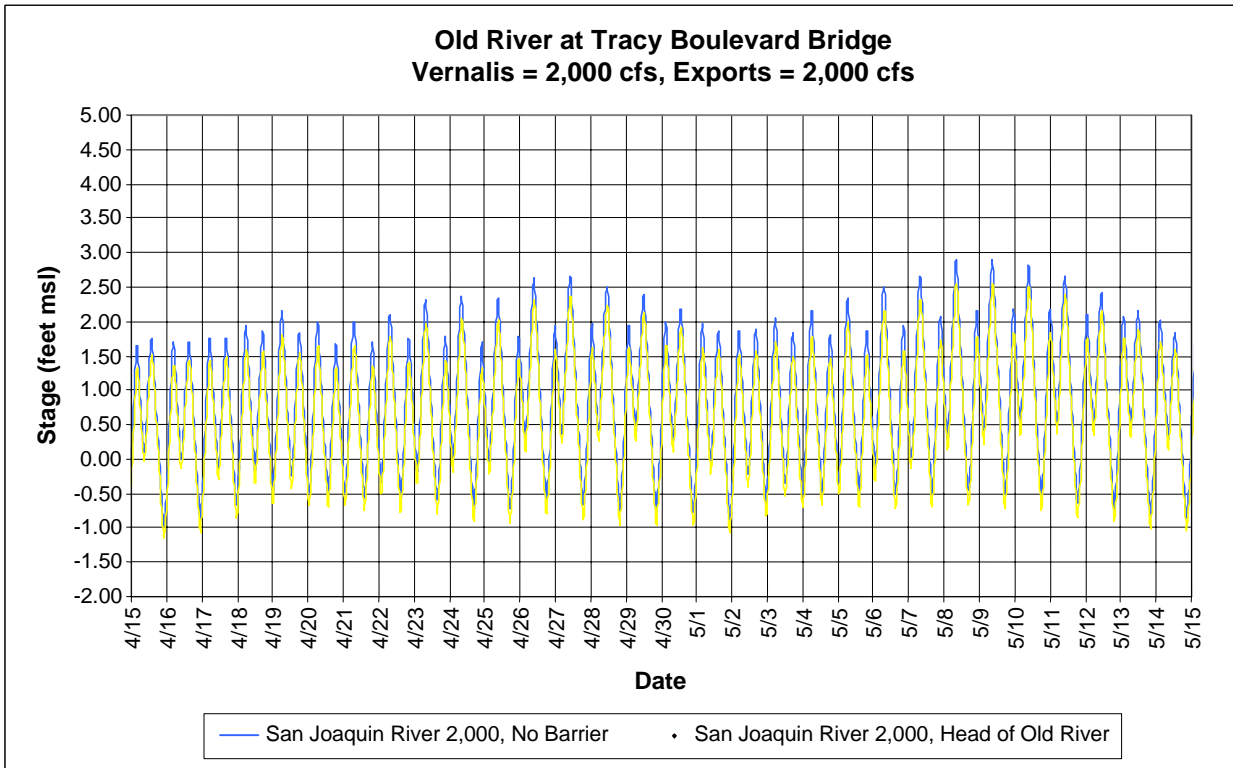


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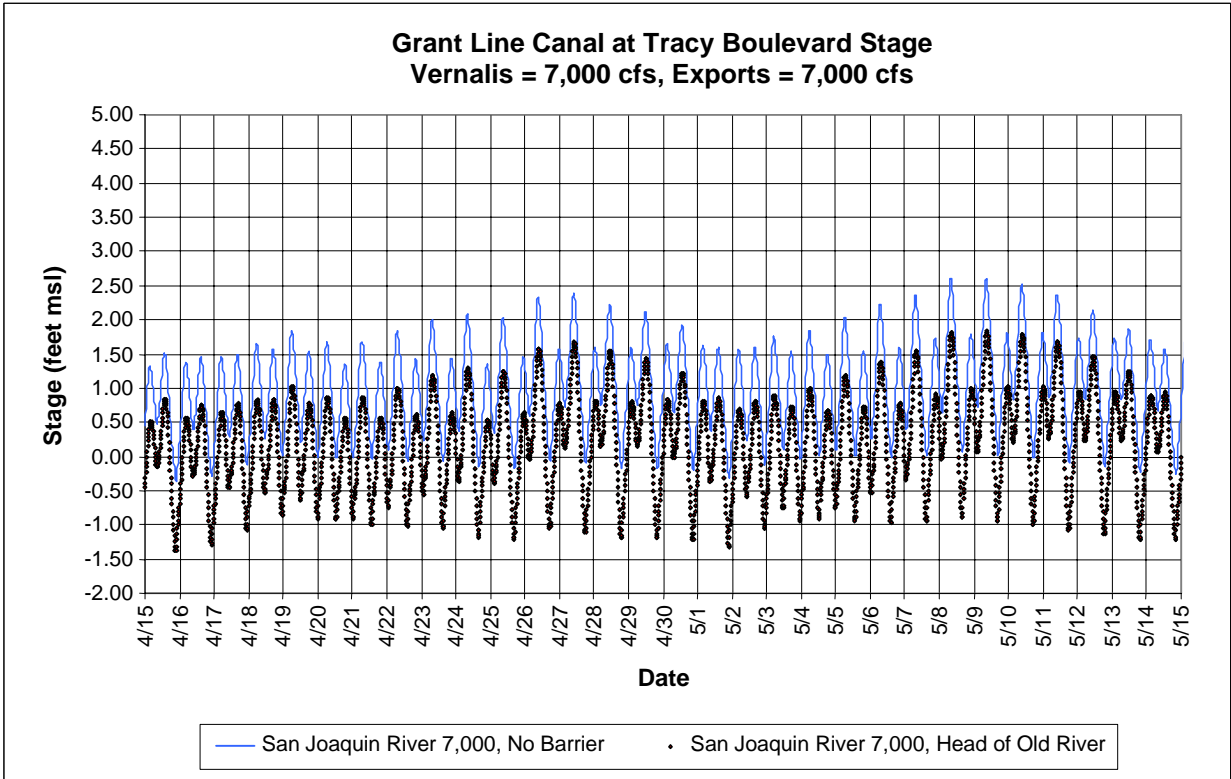
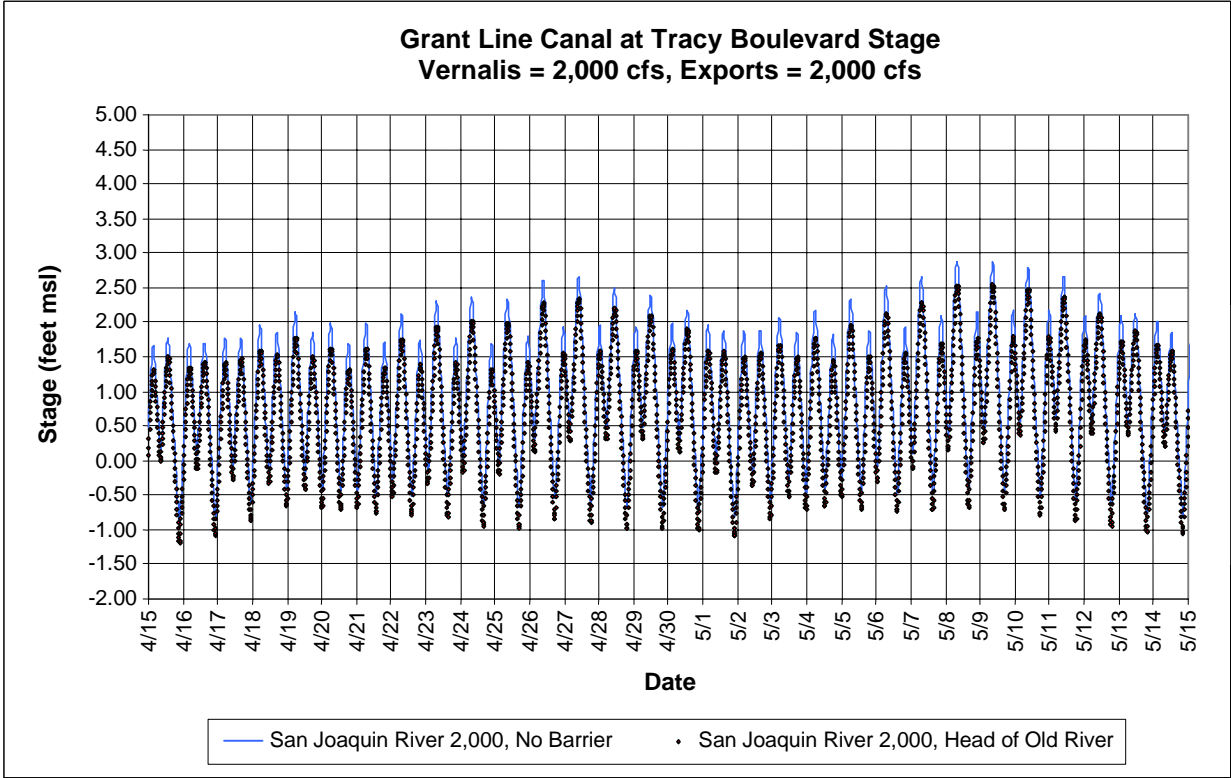


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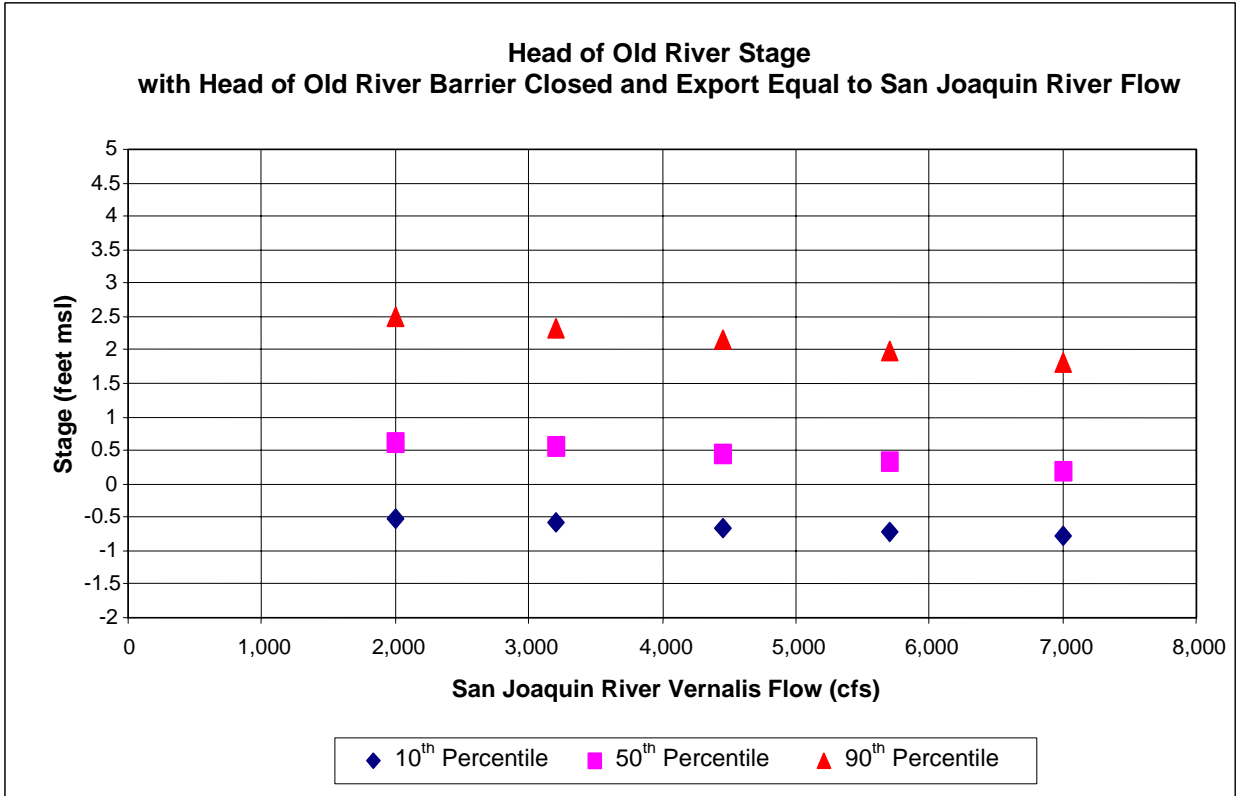
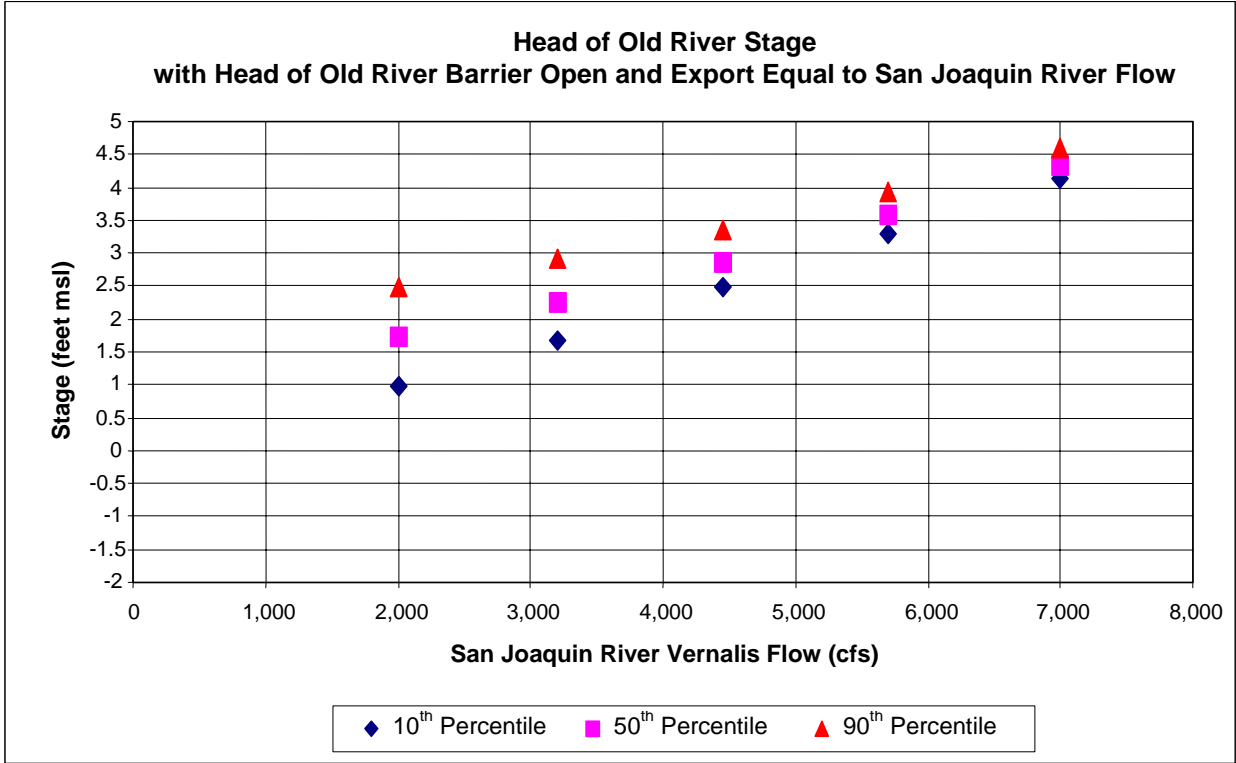
Figure D-114
Simulated Water-Surface Elevation (Stage)
in Middle River at Mowry Bridge



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02053.02 101



02053.02 101

**CALSIM II
Statewide Model**



Monthly Time Step

Output (water years 1922–1994)

- Reservoir operations
- Project deliveries
- Delta inflows and exports

**Delta Inflows
and Exports**

**DSM2
Delta Model**



15-Minute Time Step

Output (water years 1976–1991)

- Flow
- Stage (water level)
- Salinity
- Other water quality constituents

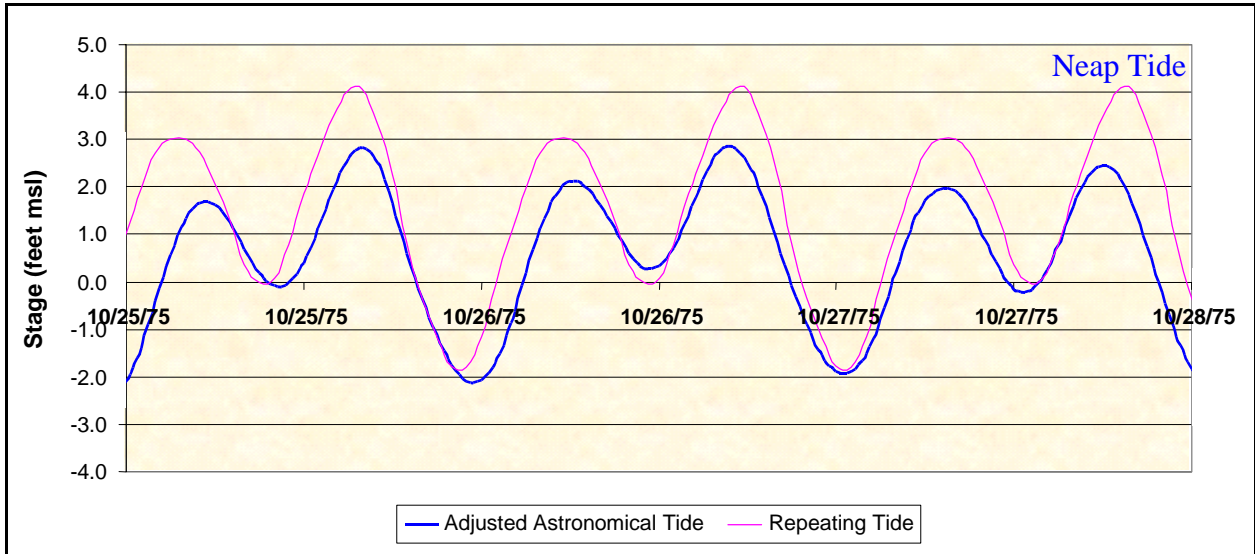


Figure D-119a. Three-Day Sequence of Adjusted Astronomical and 25-Hour-Repeating 19-Year Mean Tides

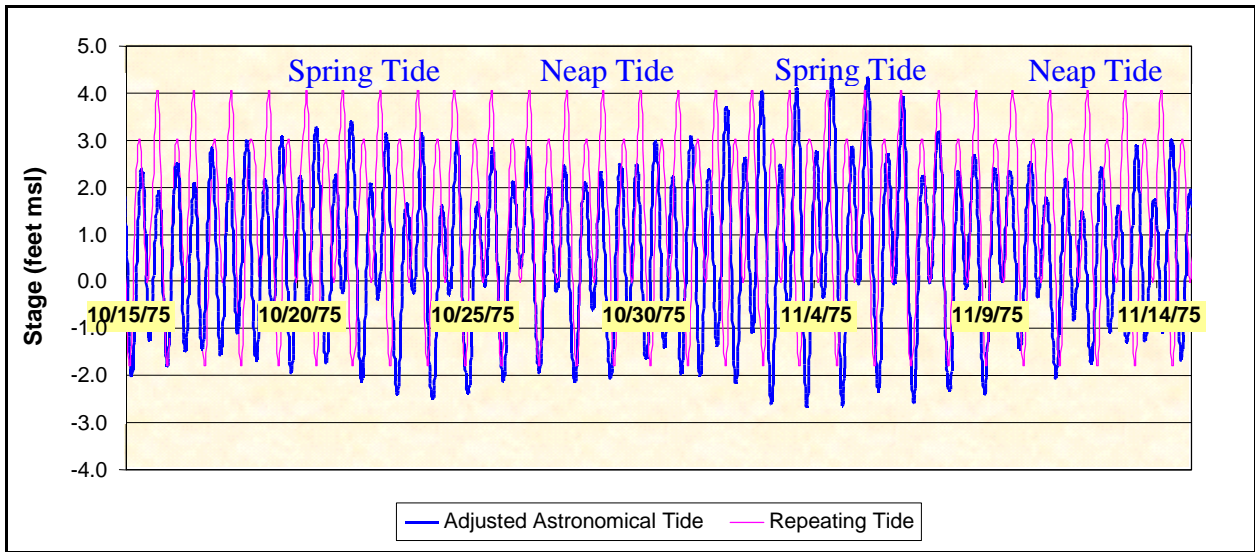
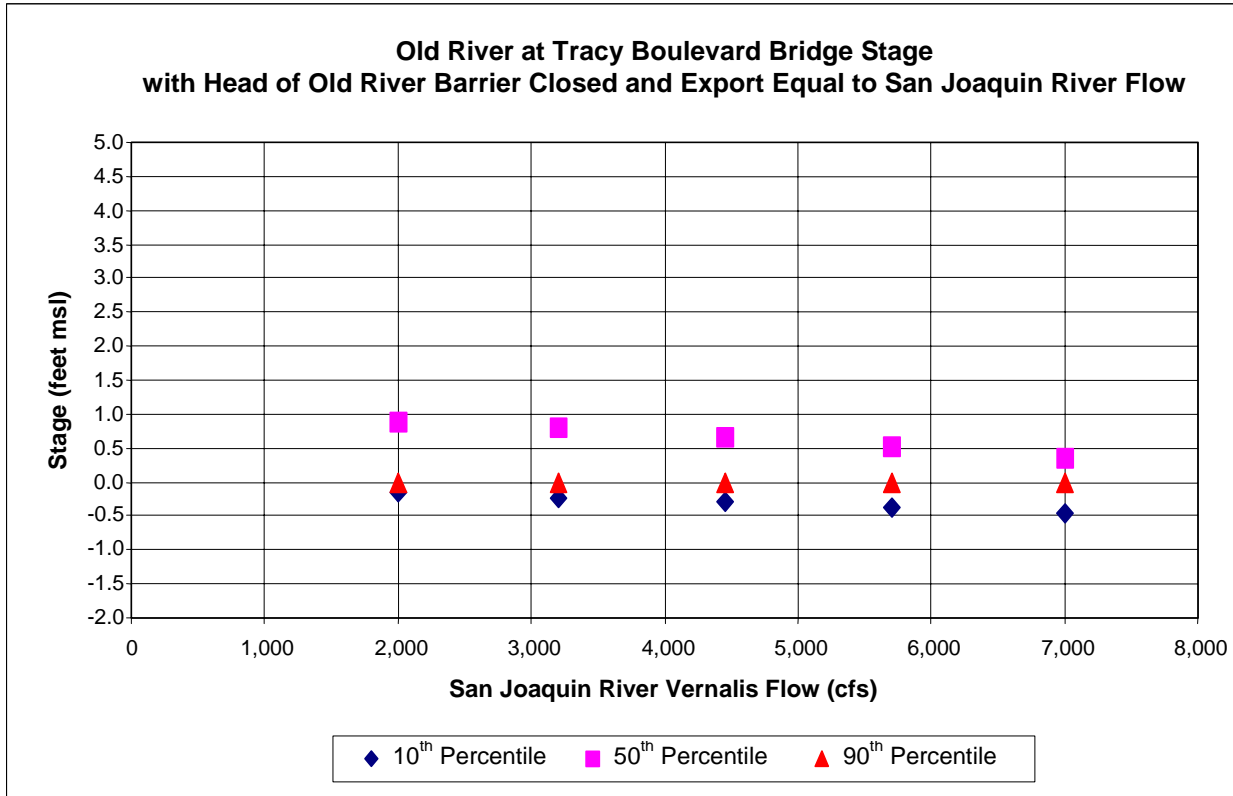
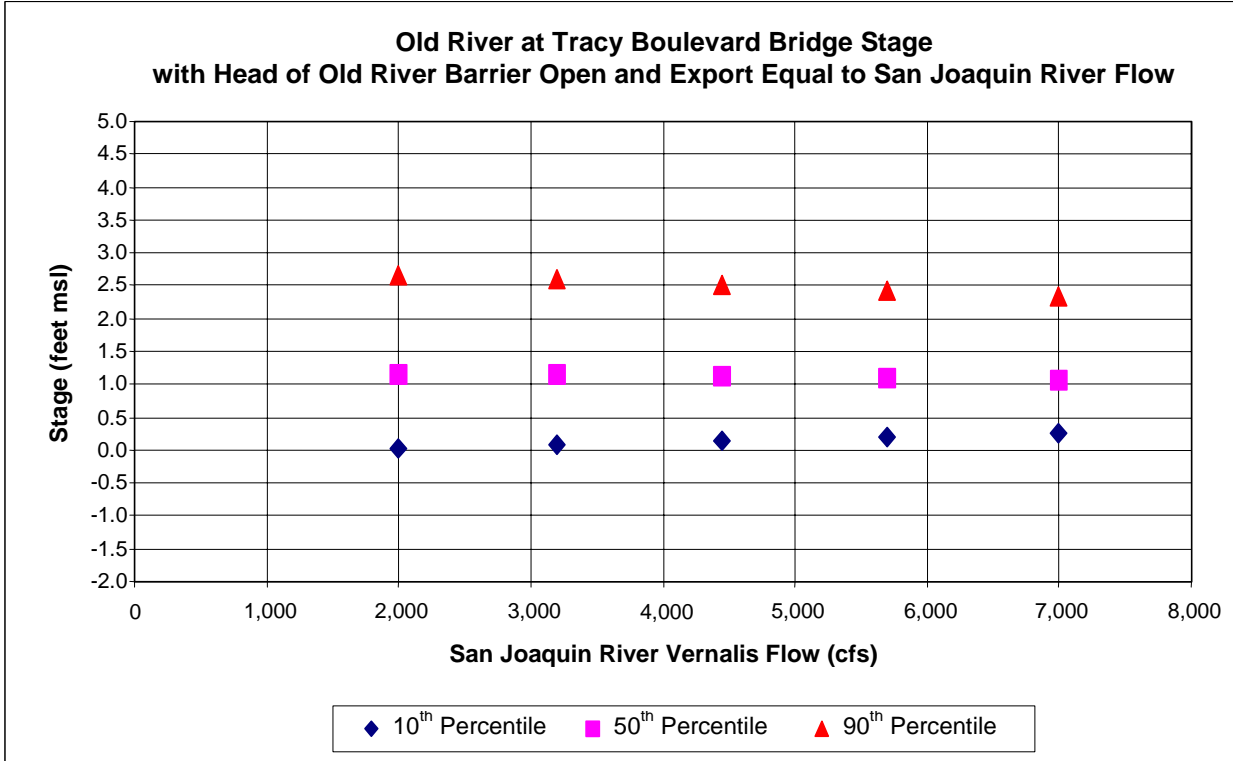
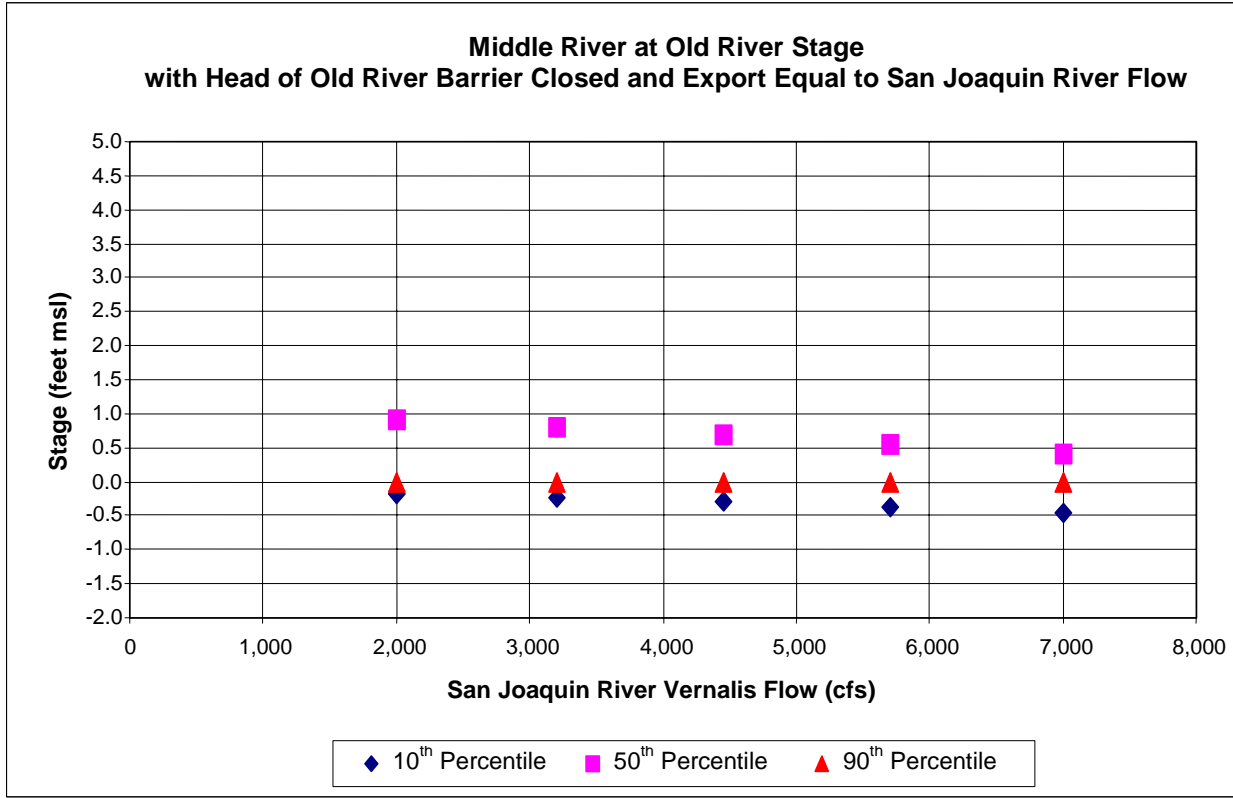
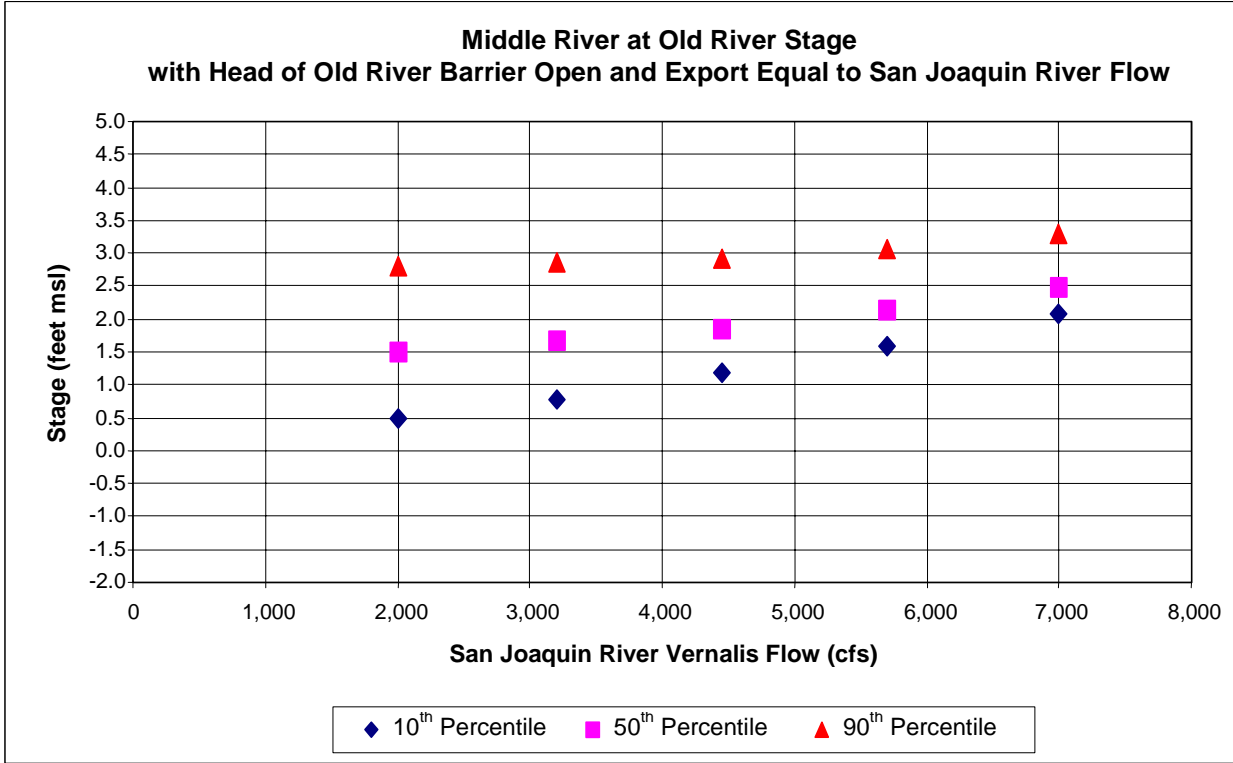


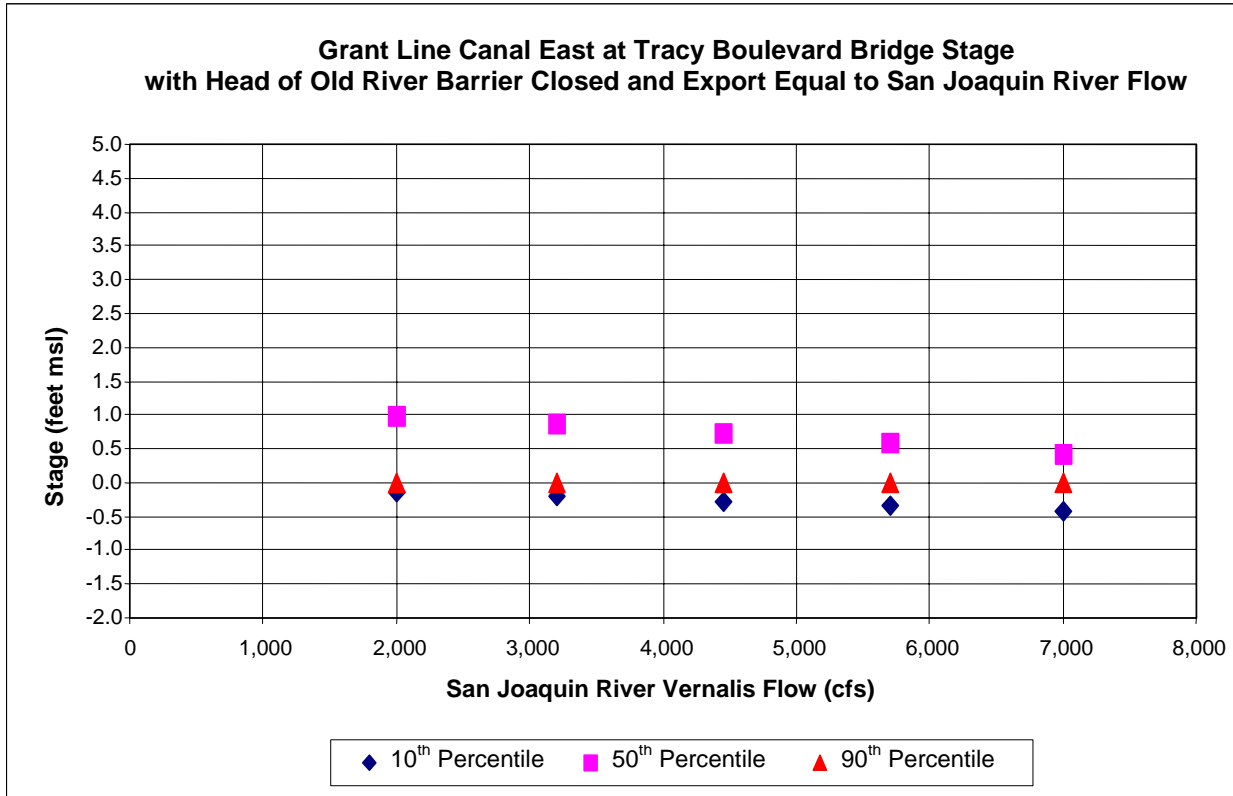
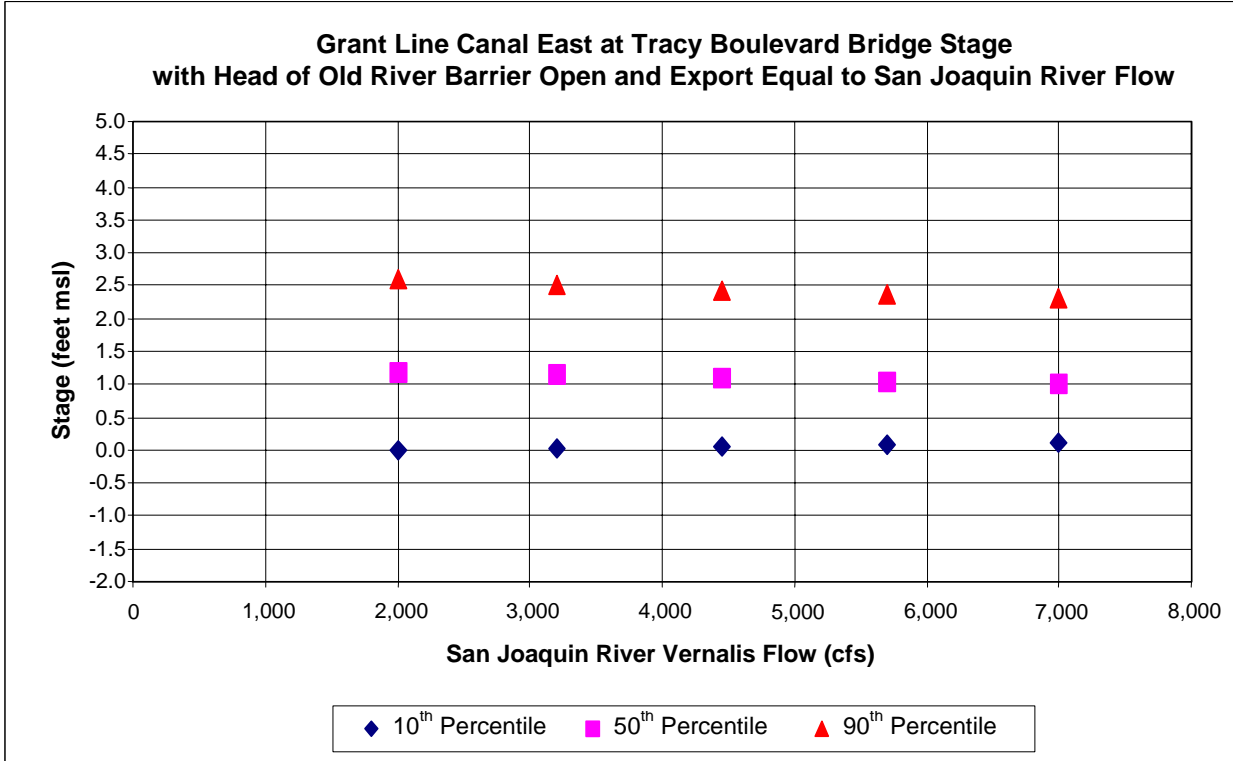
Figure D-119b. Two-Week Sequence of Adjusted Astronomical and 25-Hour-Repeating 19-Year Mean Tides



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**CALSIM II
Statewide Model**



Monthly Time Step

Output (water years 1922–1994)

- Reservoir operations
- Project deliveries
- Delta inflows and exports

**Delta Inflows
and Exports**

**DSM2
Delta Model**



15-Minute Time Step

Output (water years 1976–1991)

- Flow
- Stage (water level)
- Salinity
- Other water quality constituents

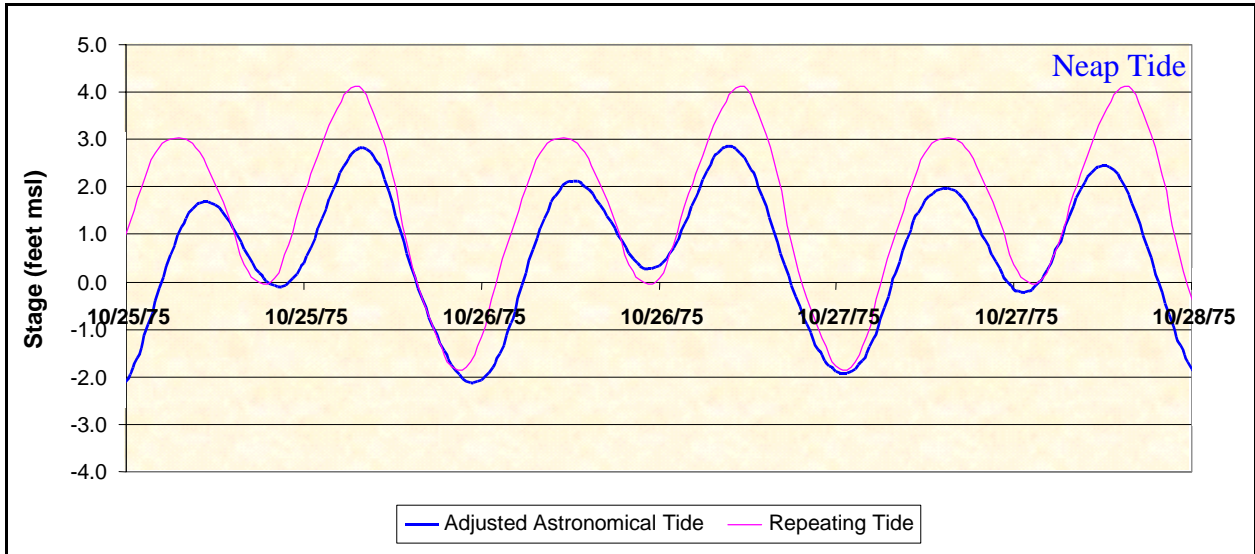


Figure D-119a. Three-Day Sequence of Adjusted Astronomical and 25-Hour-Repeating 19-Year Mean Tides

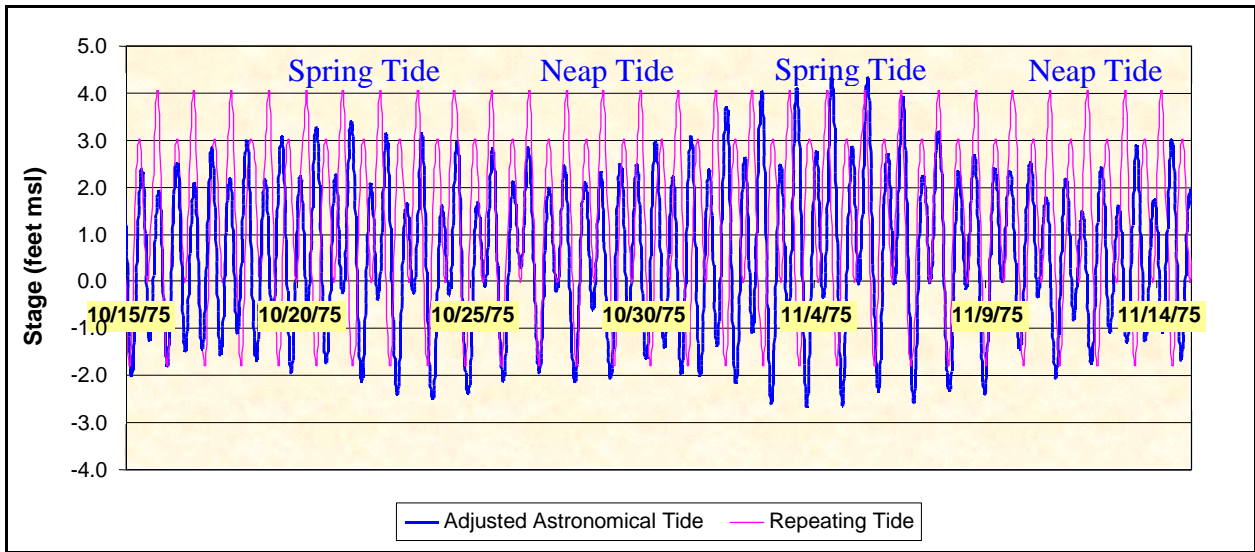


Figure D-119b. Two-Week Sequence of Adjusted Astronomical and 25-Hour-Repeating 19-Year Mean Tides

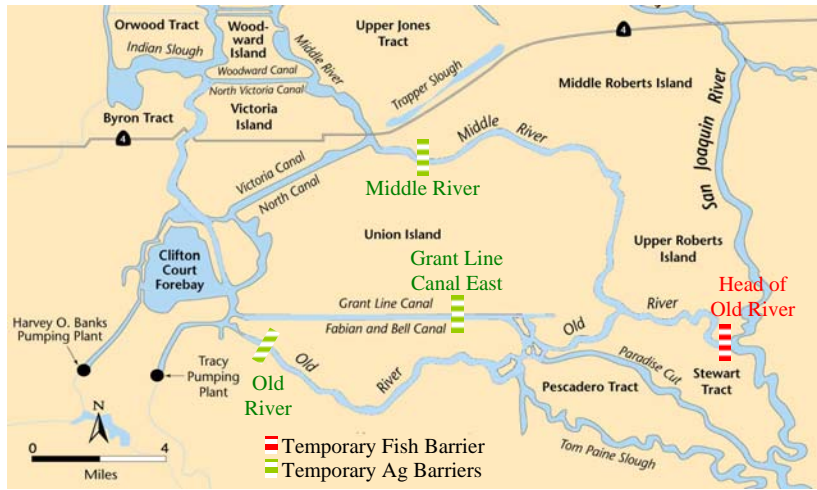


Figure D-120a. Temporary Barriers: One Fish and Two Agricultural Barriers

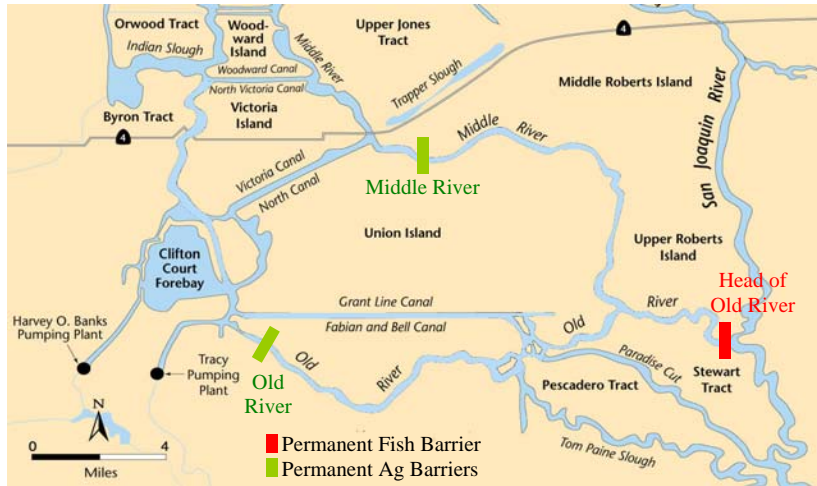


Figure D-210b. Permanent Barriers: One Fish and Two Agricultural Barriers

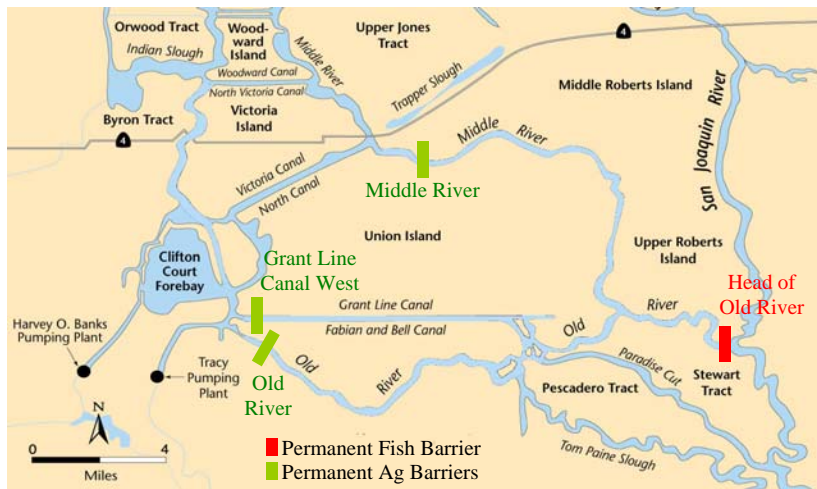
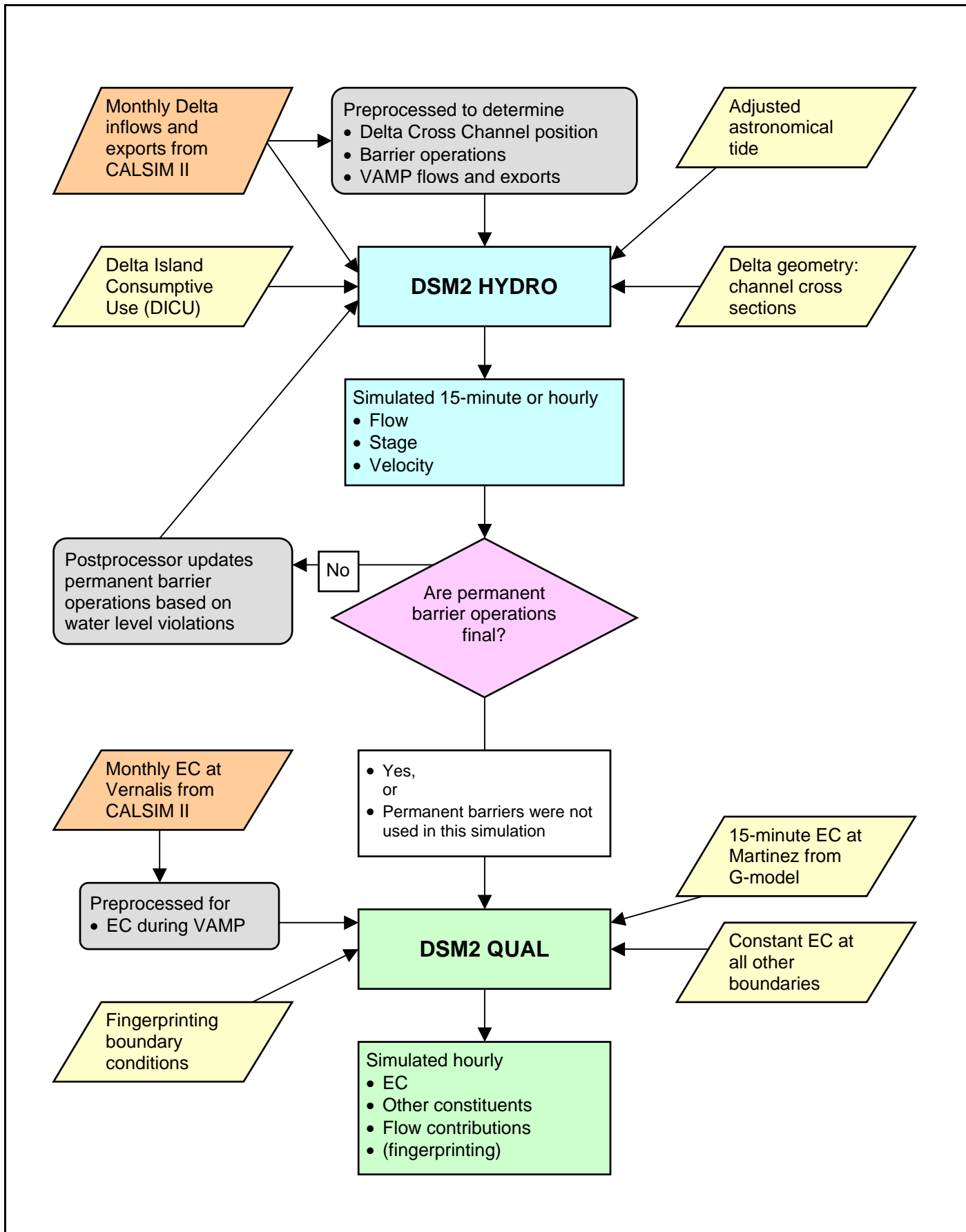
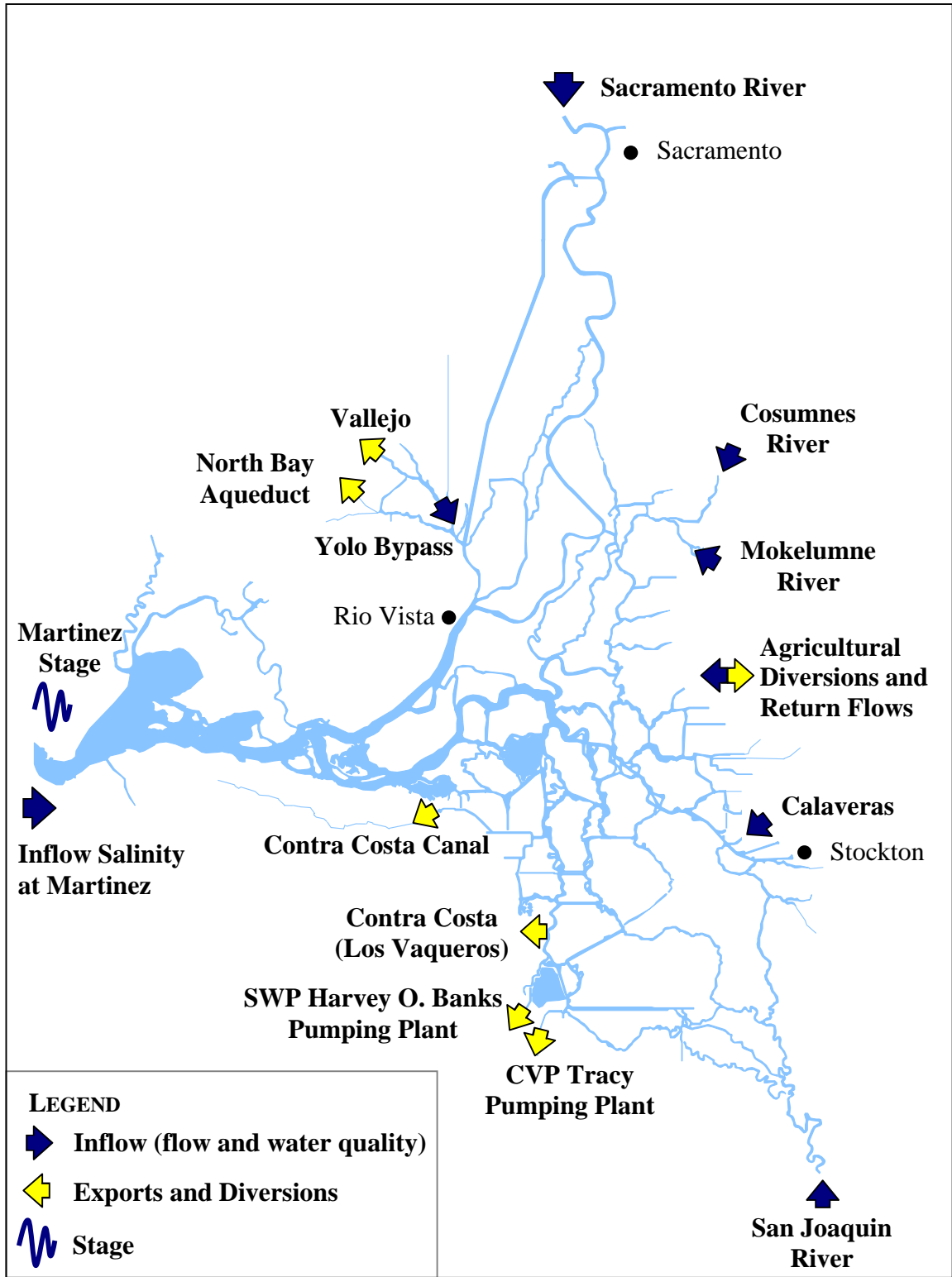


Figure D-120c. Permanent Barriers: One Fish and Three Agricultural Barriers

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Project Number

Figure D-122
DSM2 Hydrodynamic and
Water Quality Boundary Conditions

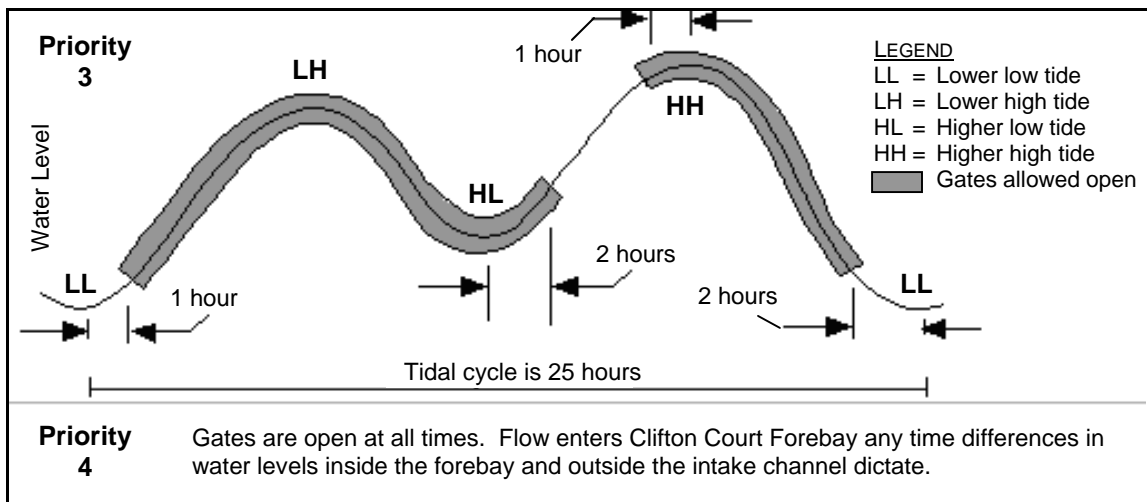


Figure D-123. Clifton Court Forebay Gate Operating Priorities in DSM2

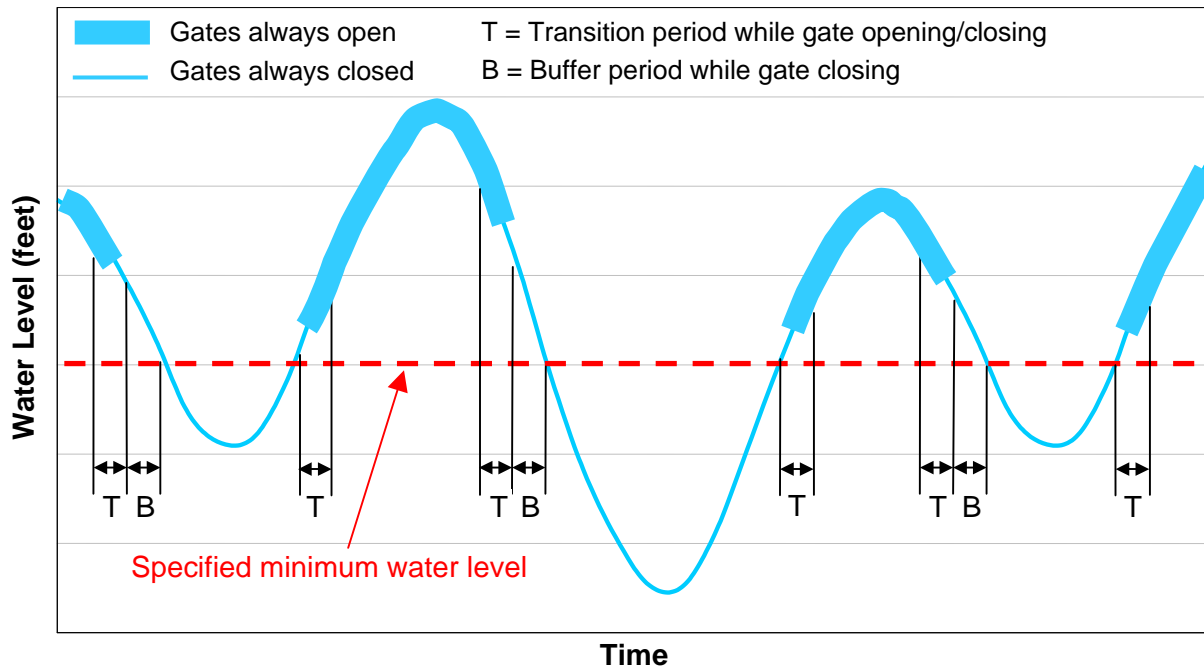
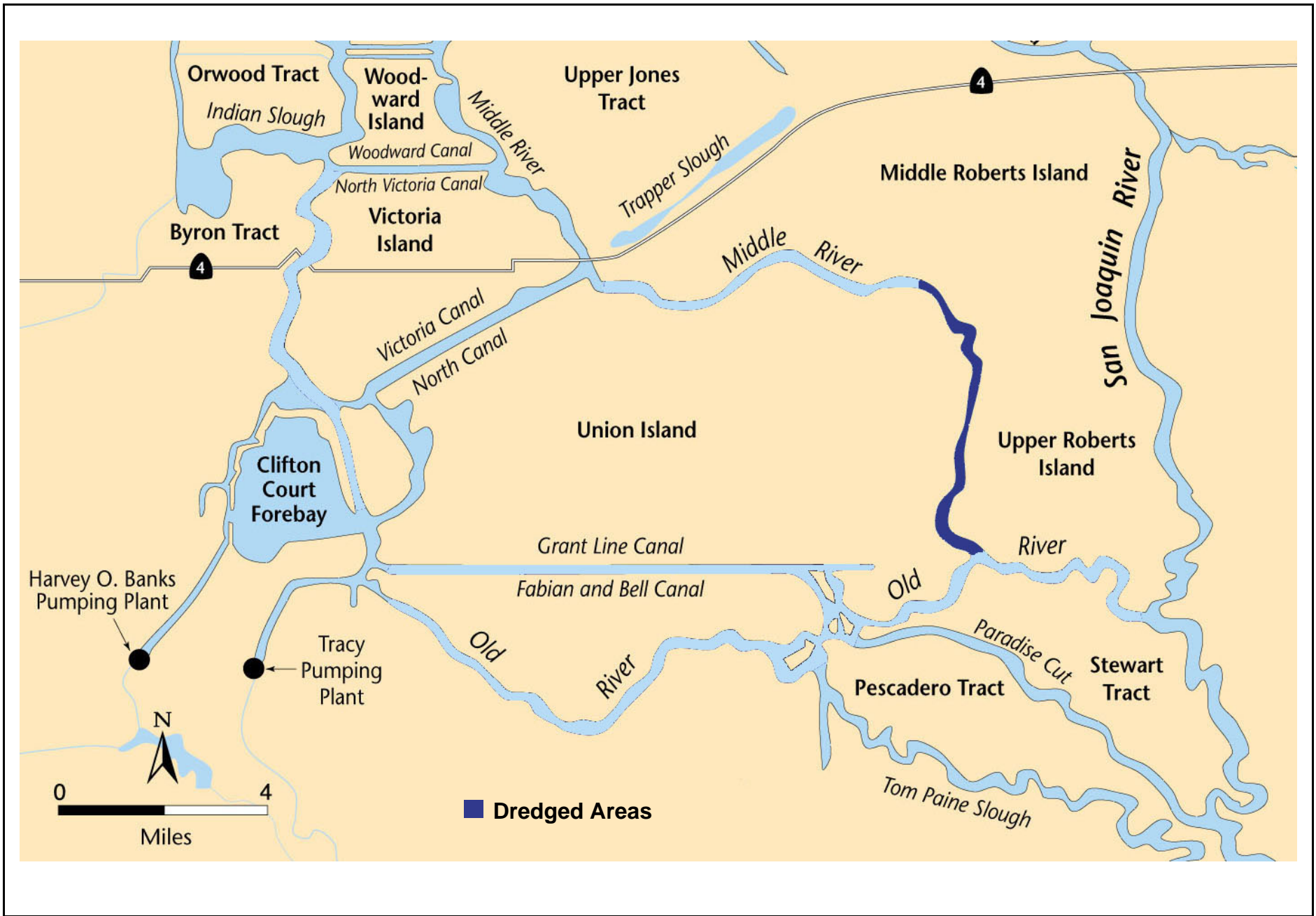


Figure D-124. Conceptualization of Permanent Barrier Operations



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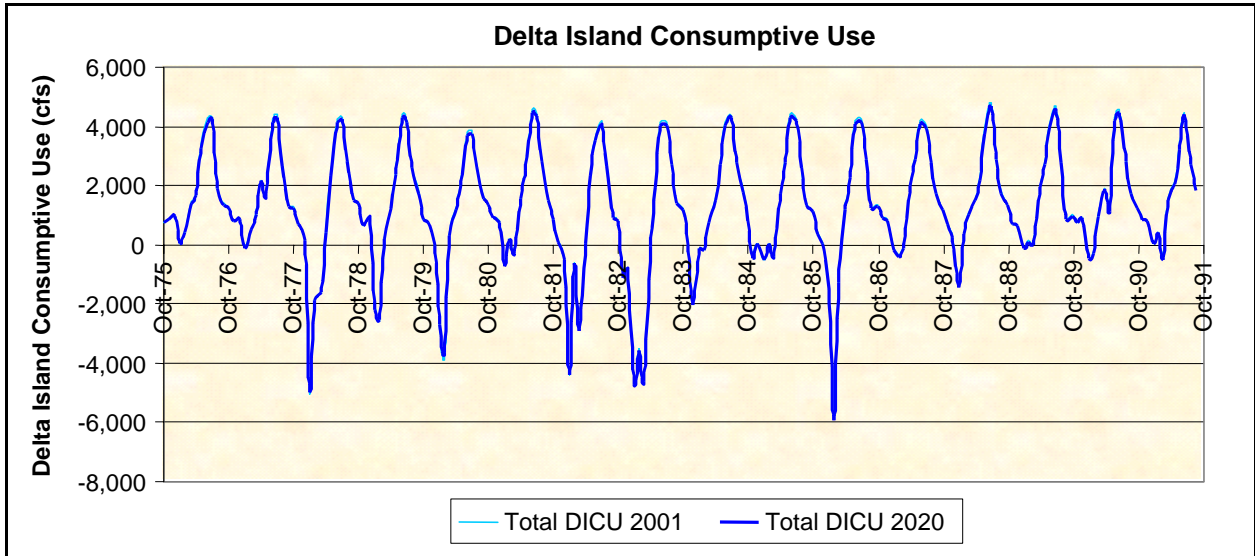


Figure D-126. Delta Island Consumptive Use for the DSM2 16-Year Planning Studies

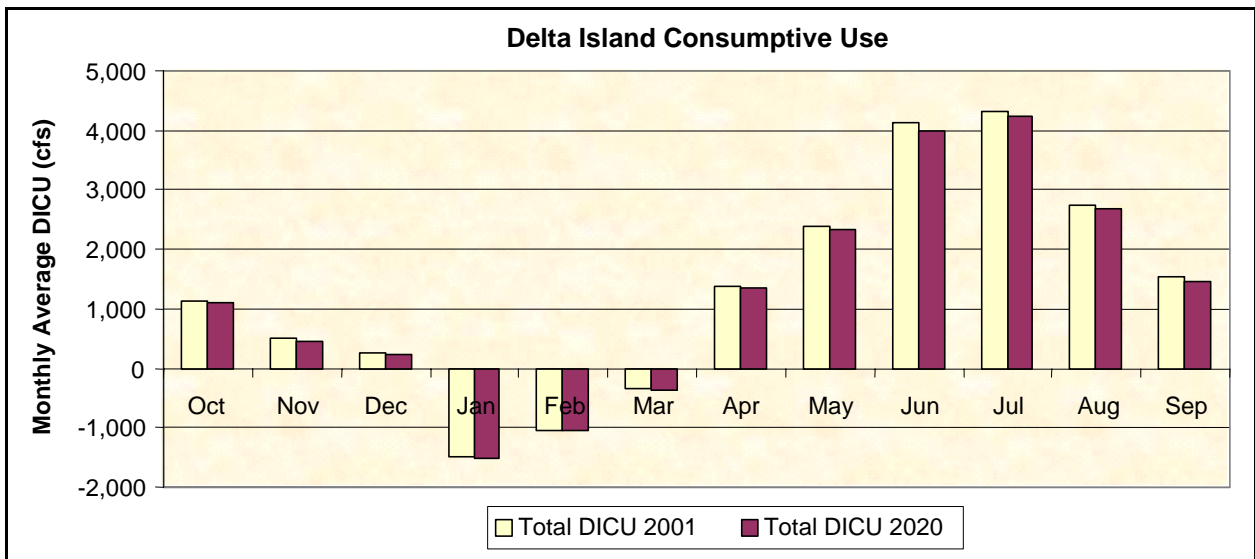


Figure D-127. Monthly Average Delta Island Consumptive Use for the DSM2 16-Year Planning Studies

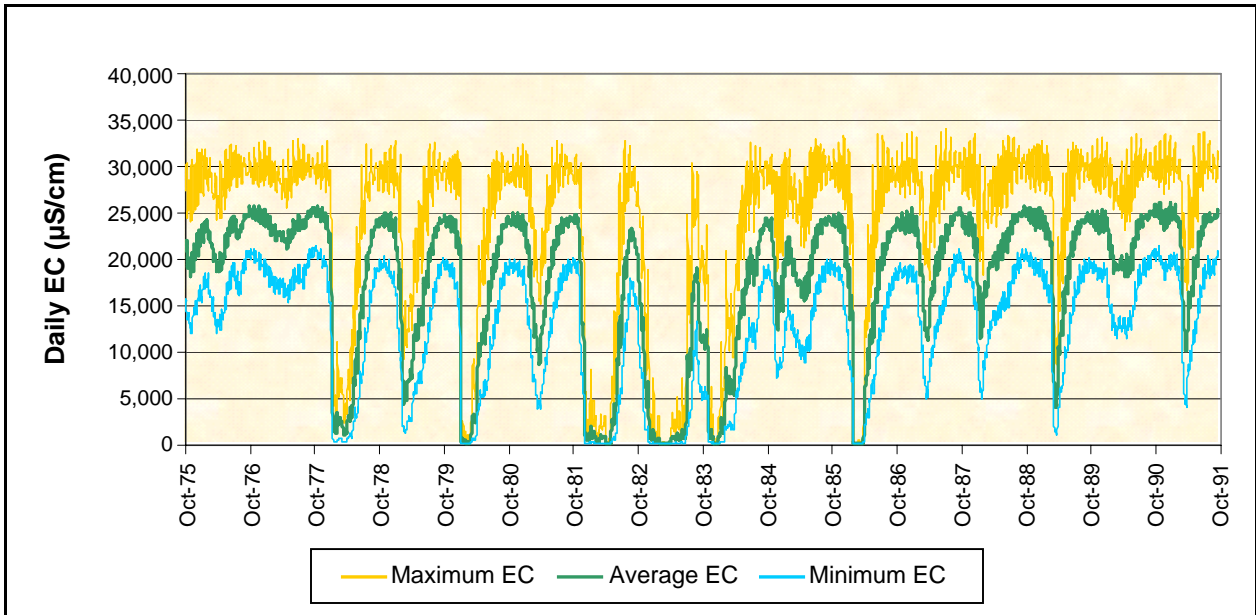


Figure D-128. Martinez Electrical Conductivity (EC) from G-model for 2020 Baseline Conditions with Temporary Barriers

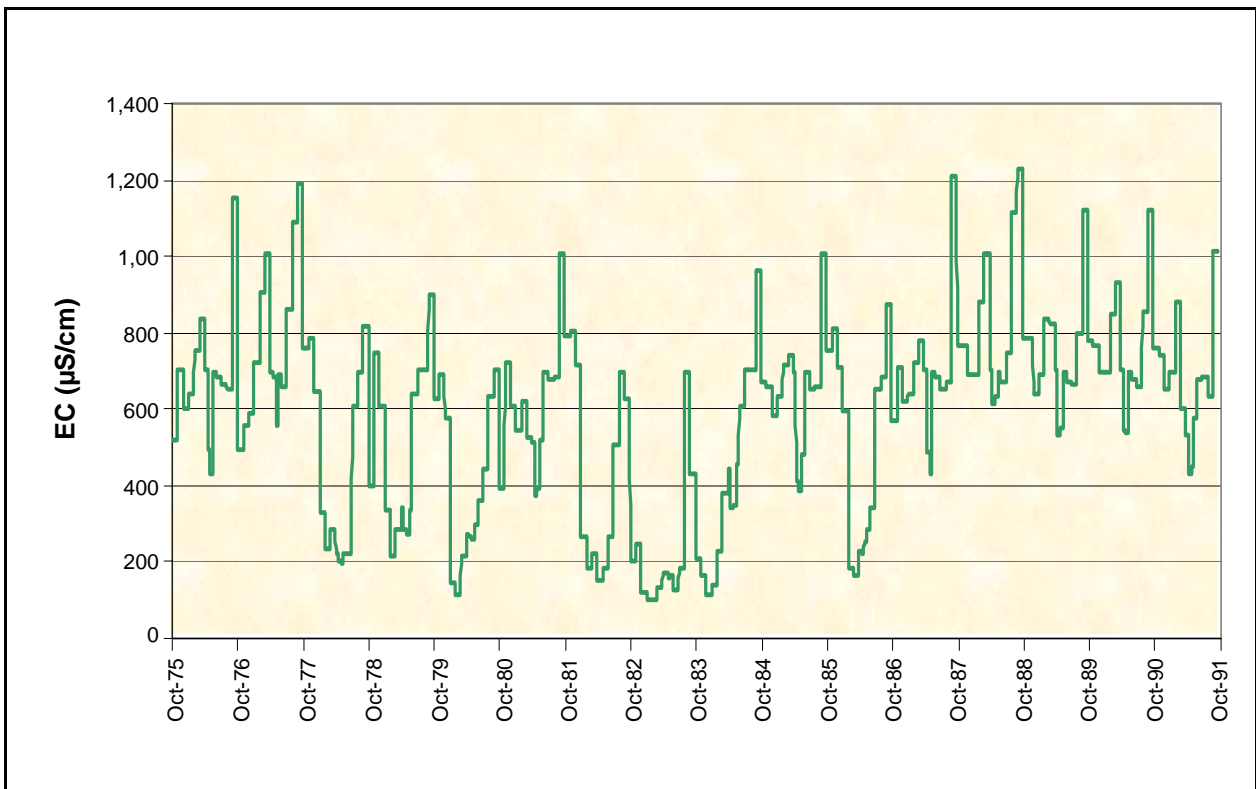


Figure D-129. Vernalis Electrical Conductivity (EC) from CALSIM II for 2020 Baseline Conditions with Temporary Barriers

Project Number



Figure D-130. Delta Regions for Drainage and Return Flow Electrical Conductivity

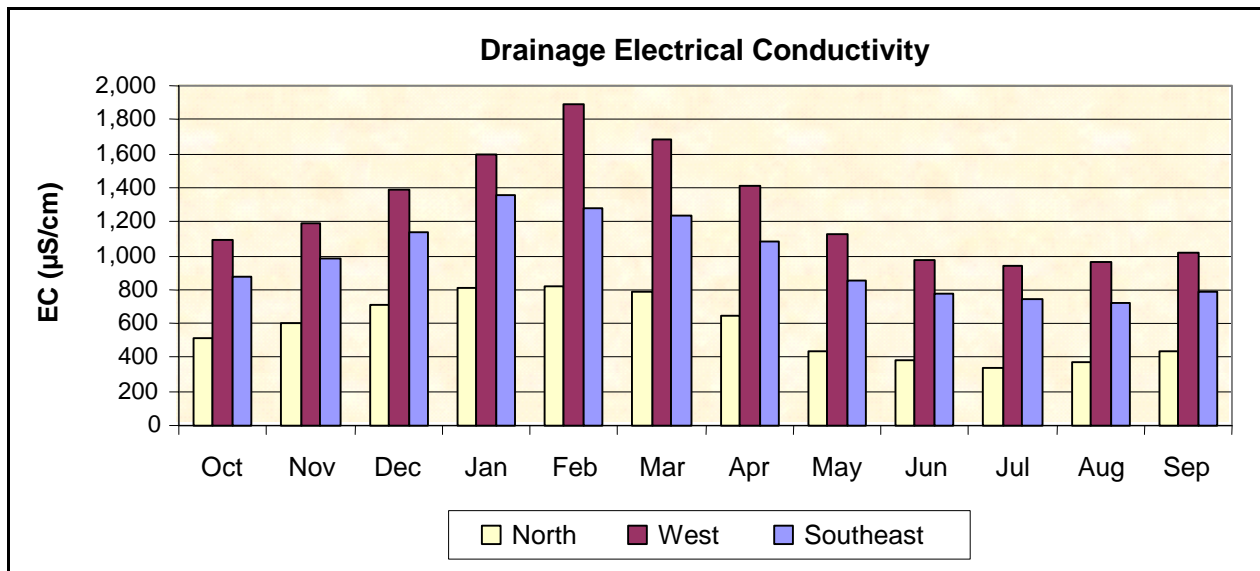
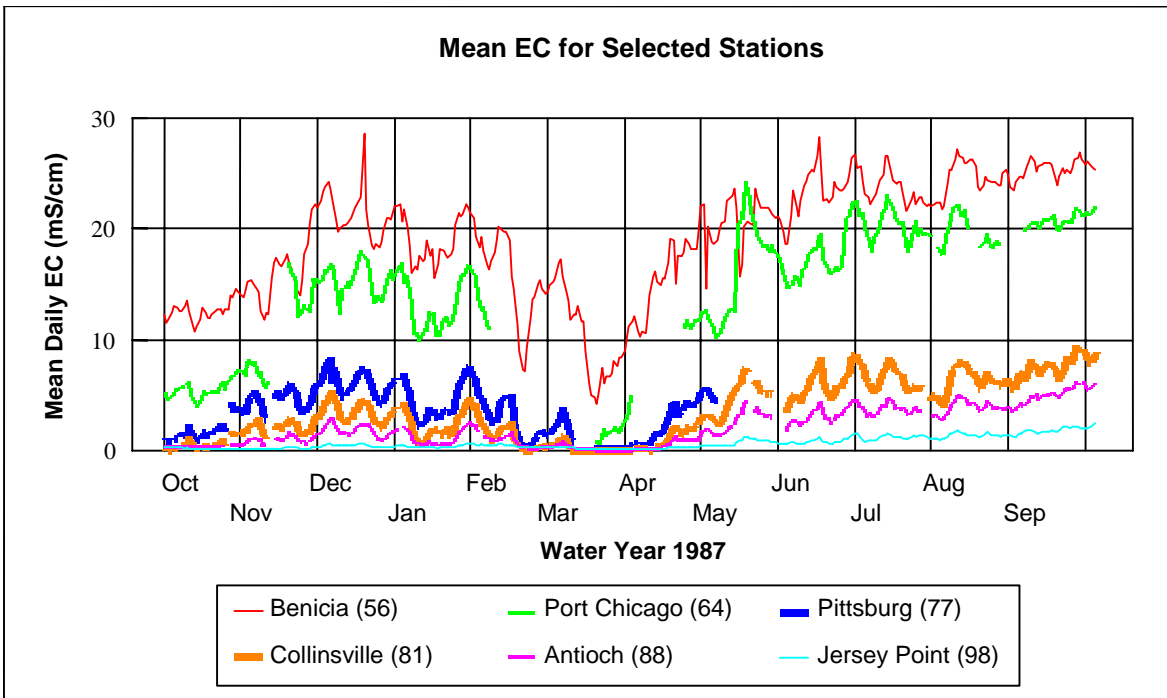
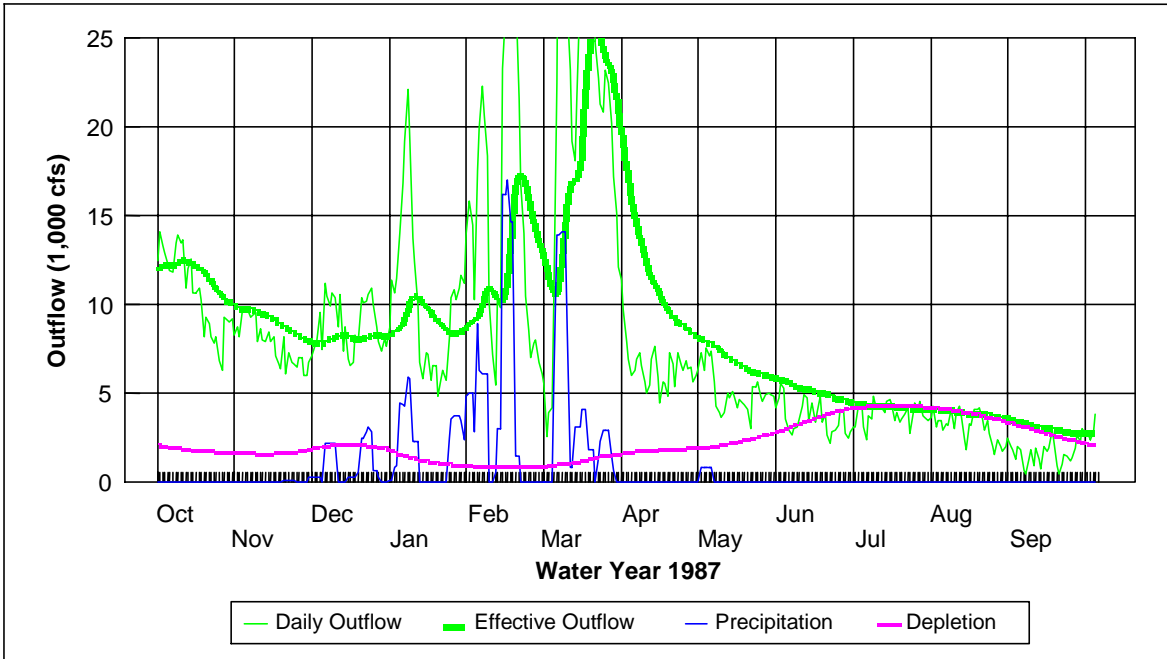
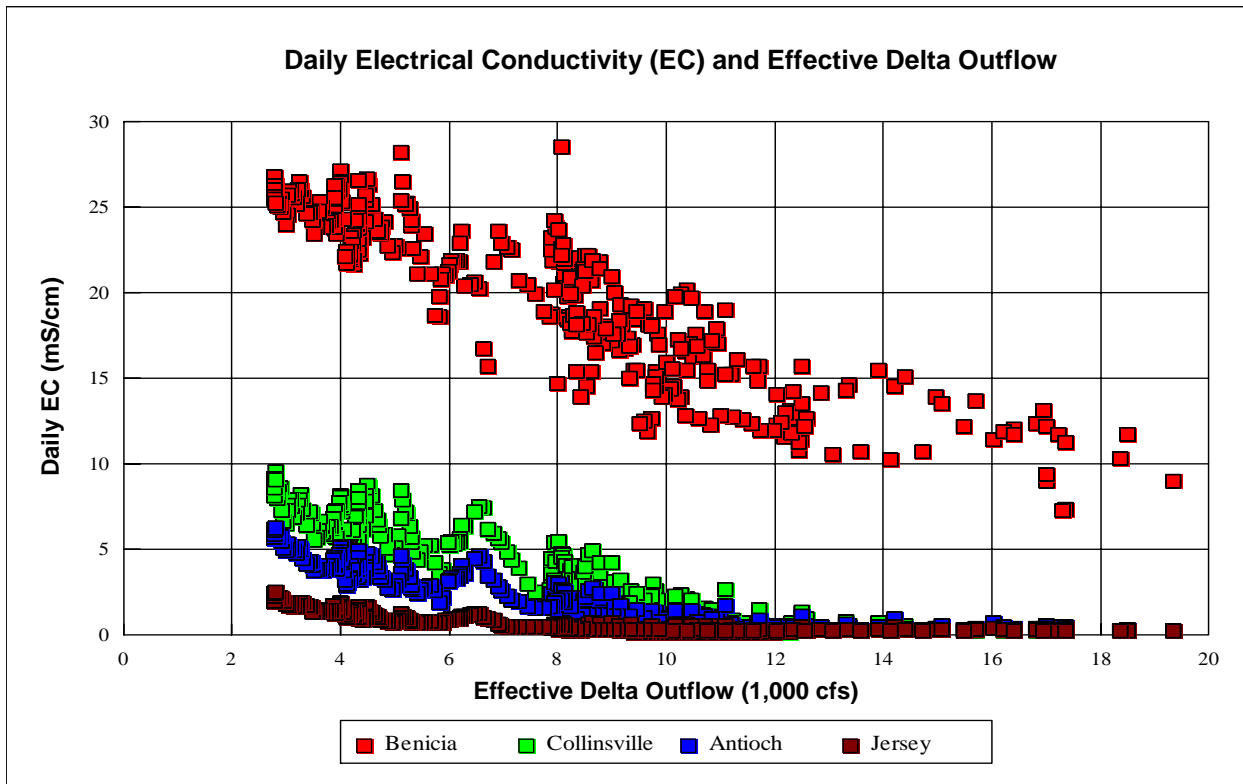
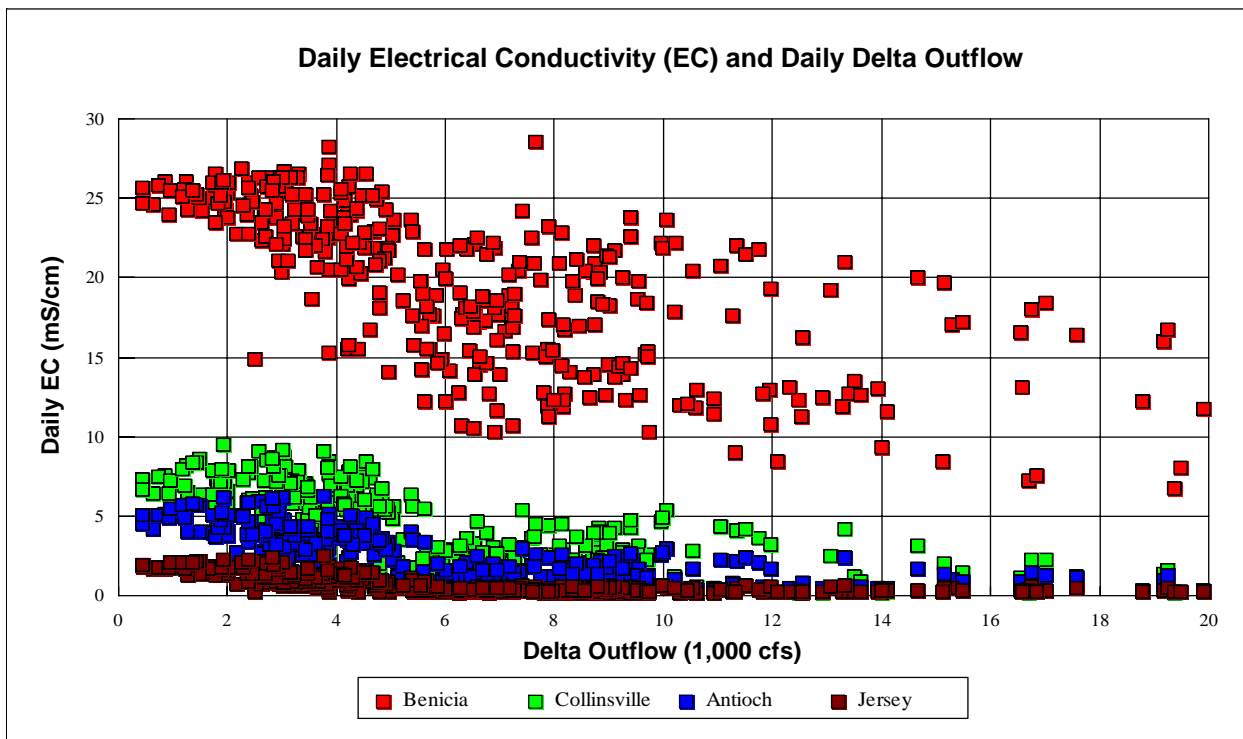


Figure D-131. Drainage and Return Flow Electrical Conductivity by Region for DSM2 Simulations



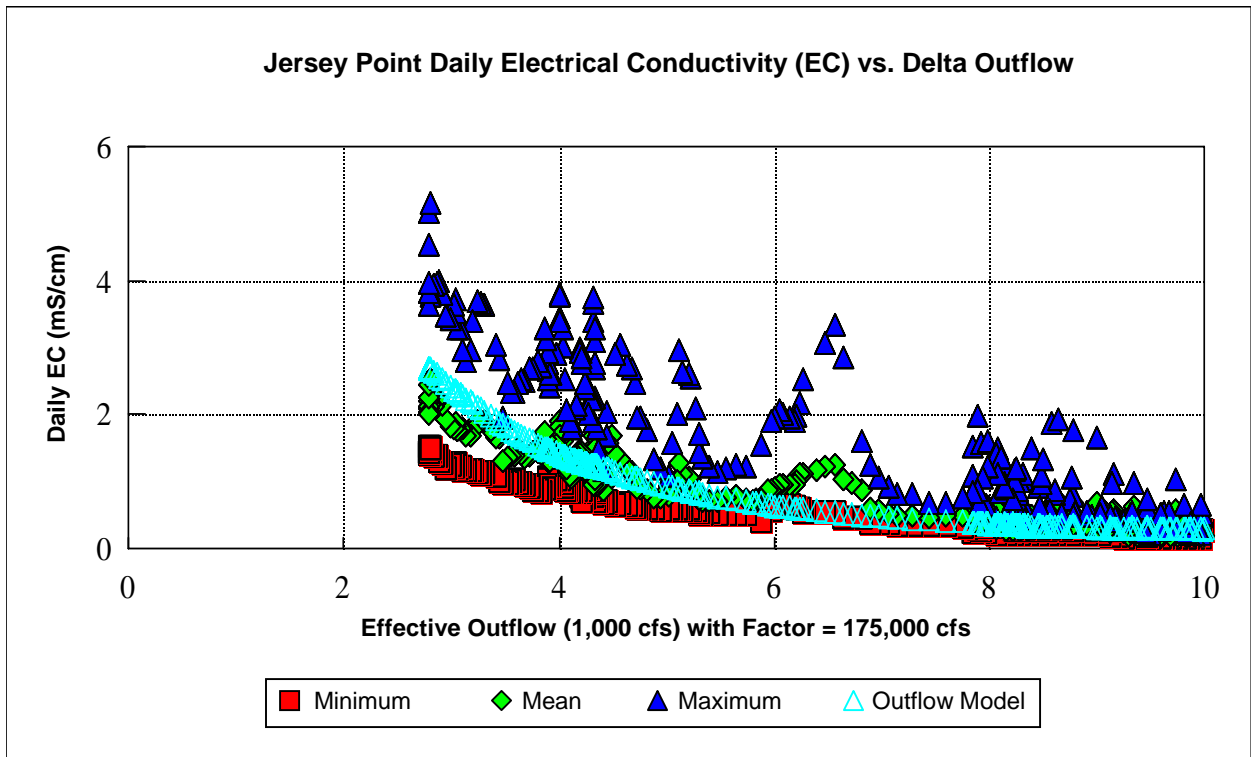
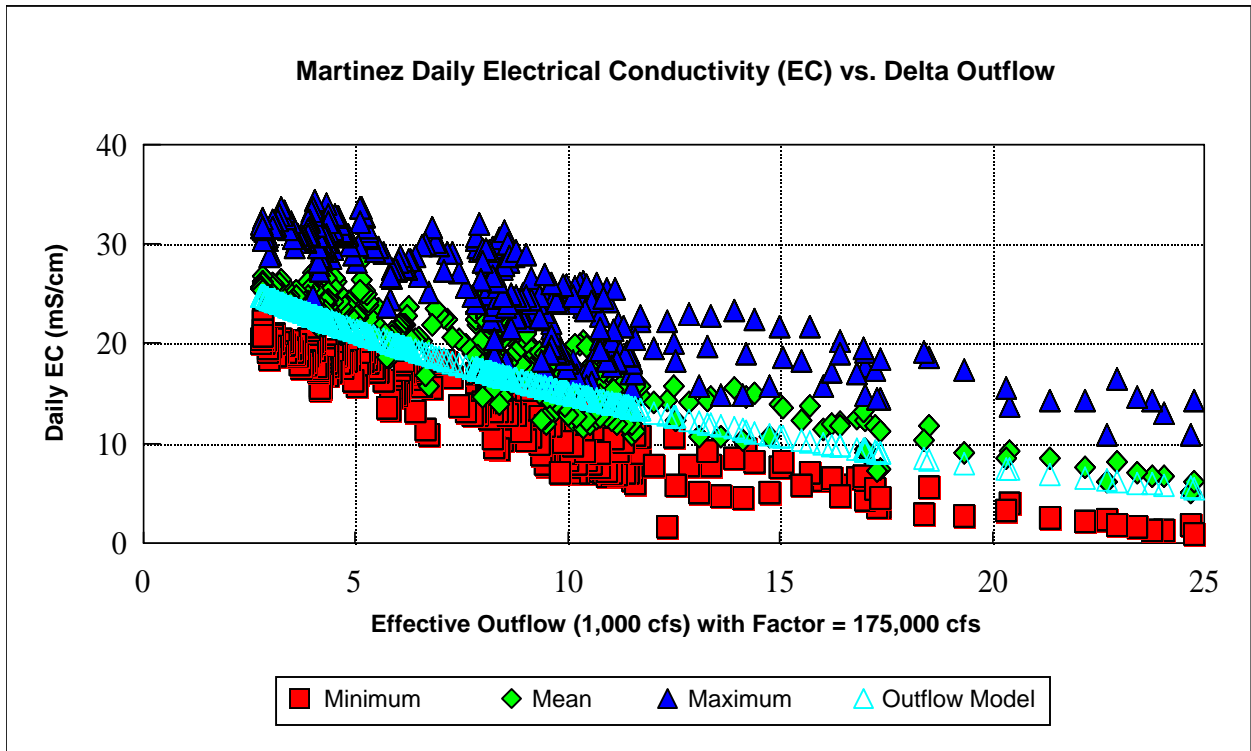
Note: The measured response of electrical conductivity appears to follow the effective outflow, which is a lagged moving average of the daily outflow estimates.

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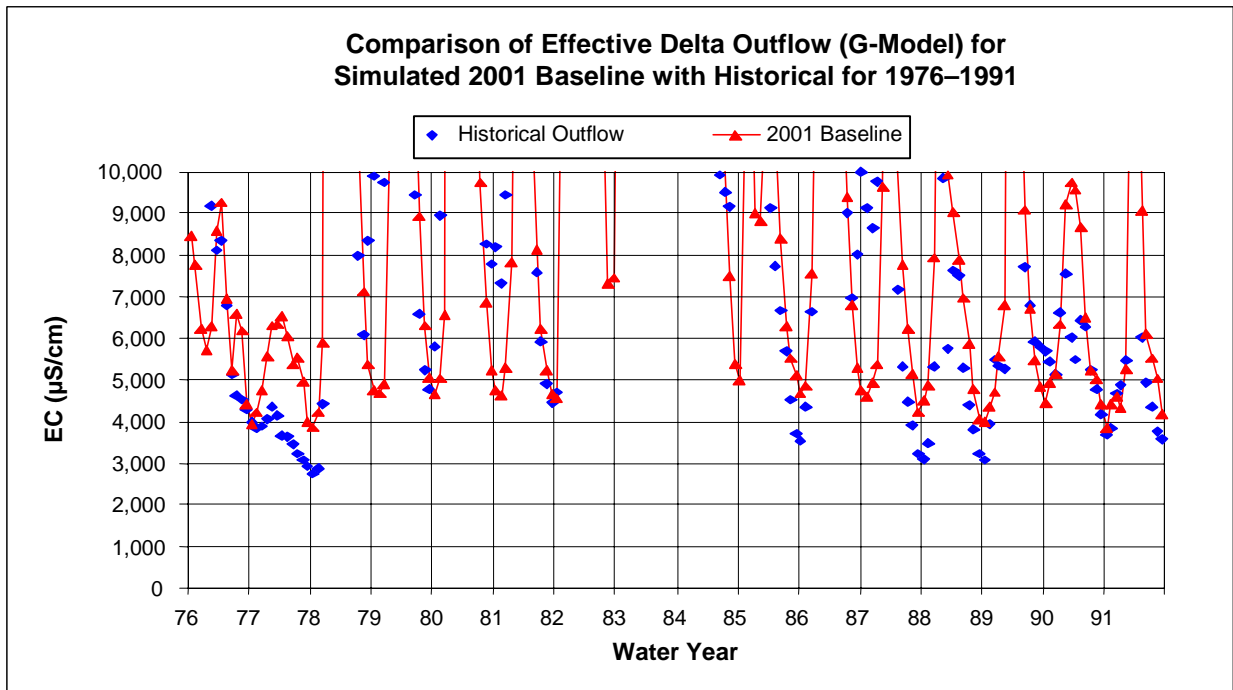
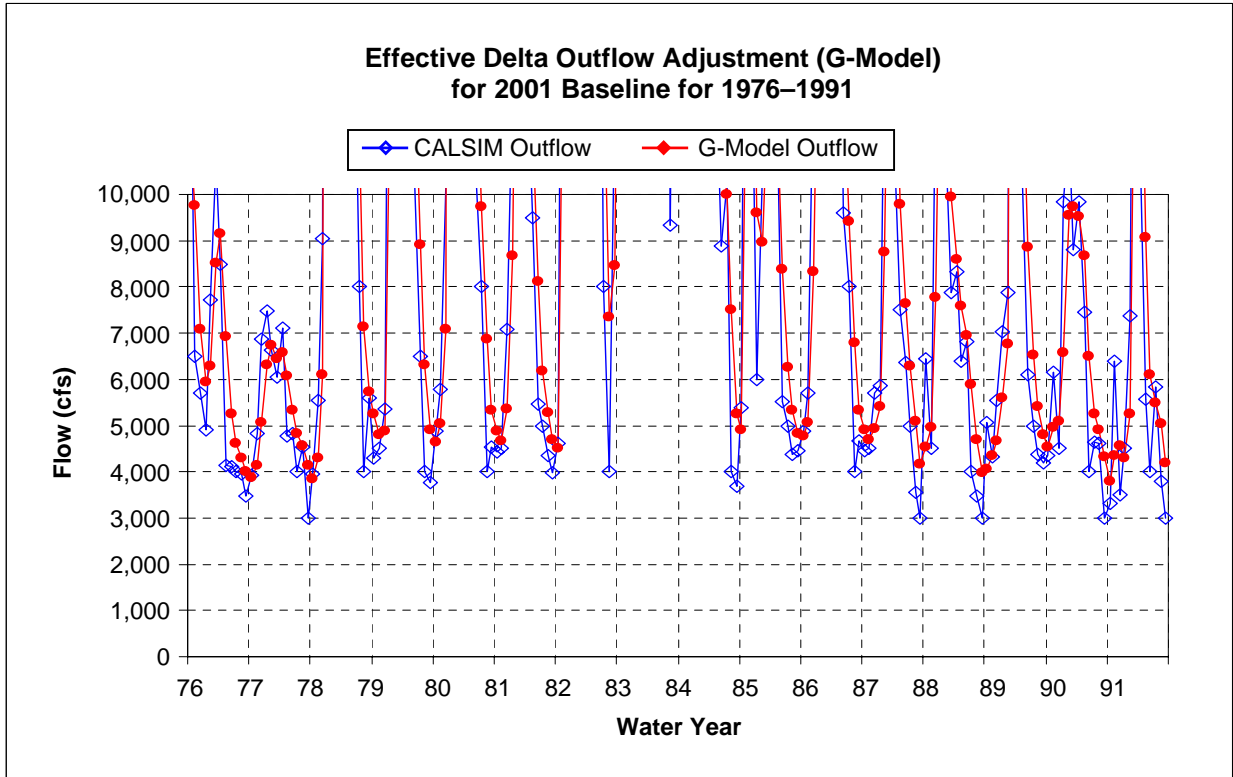
Note: Electrical conductivity at each station is reduced at higher effective outflow. A negative exponential relationship was proposed by Contra Costa Water District staff as the expected relationship for salinity intrusion.

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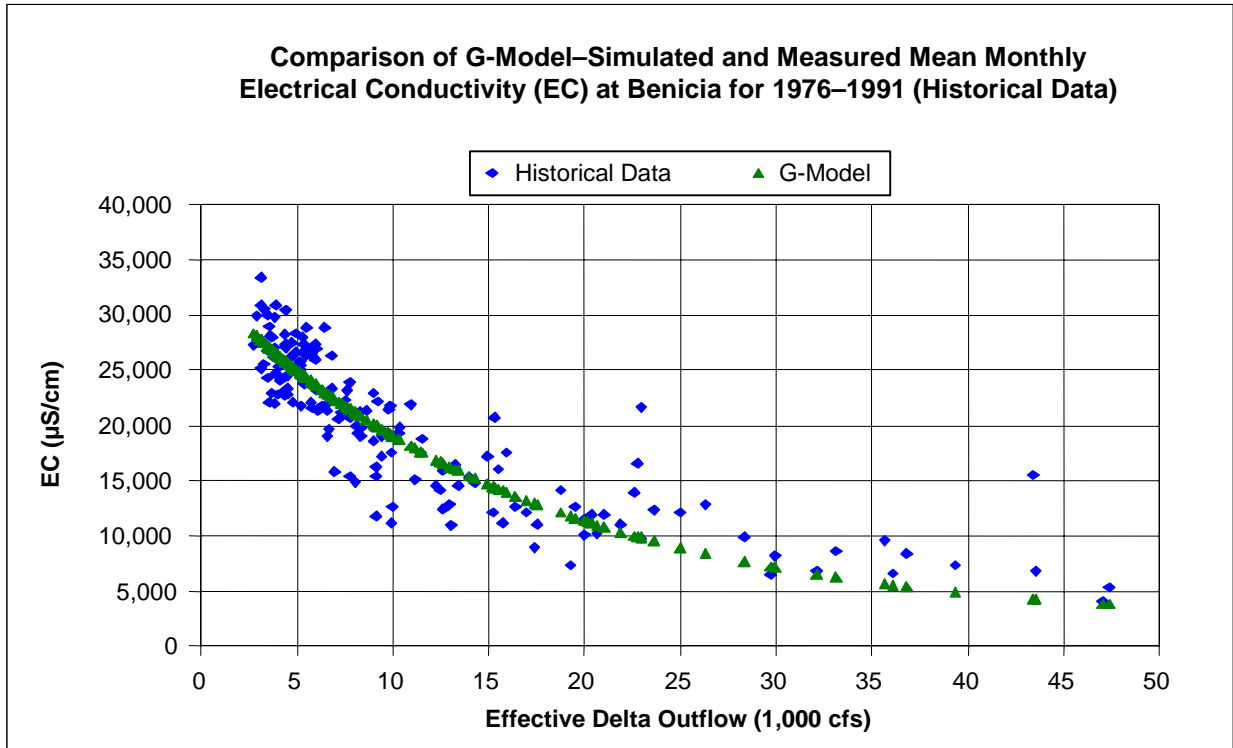
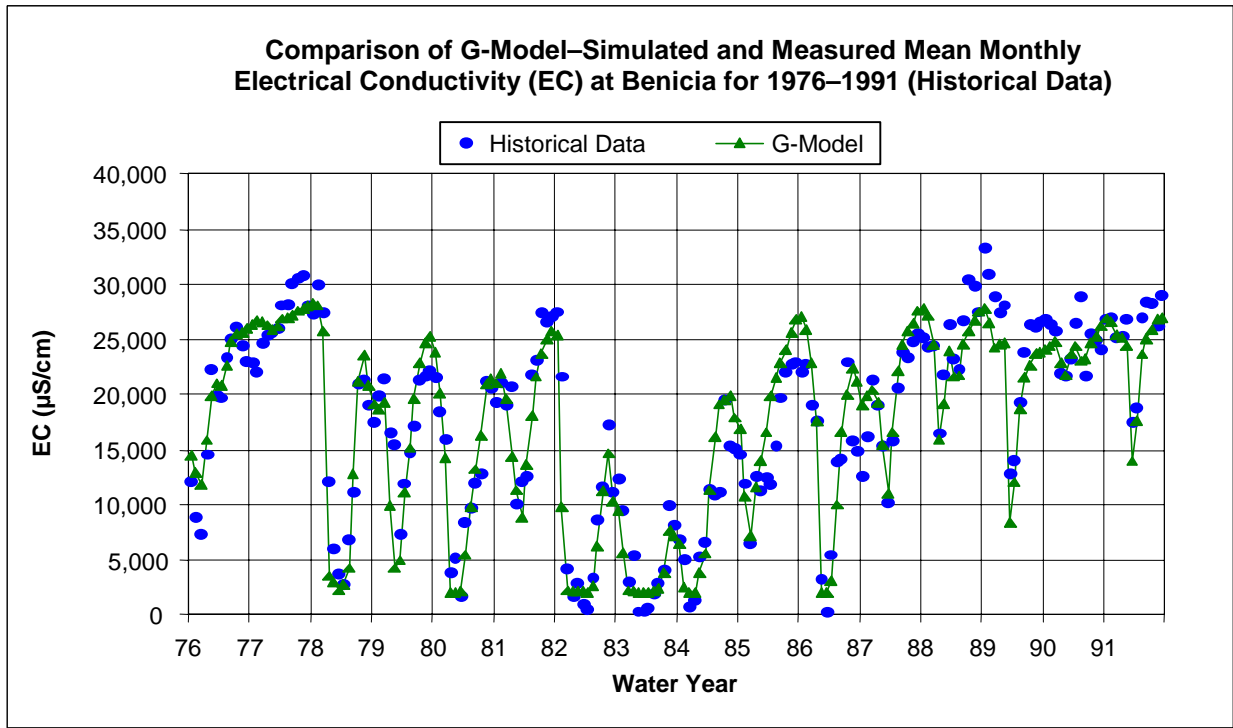


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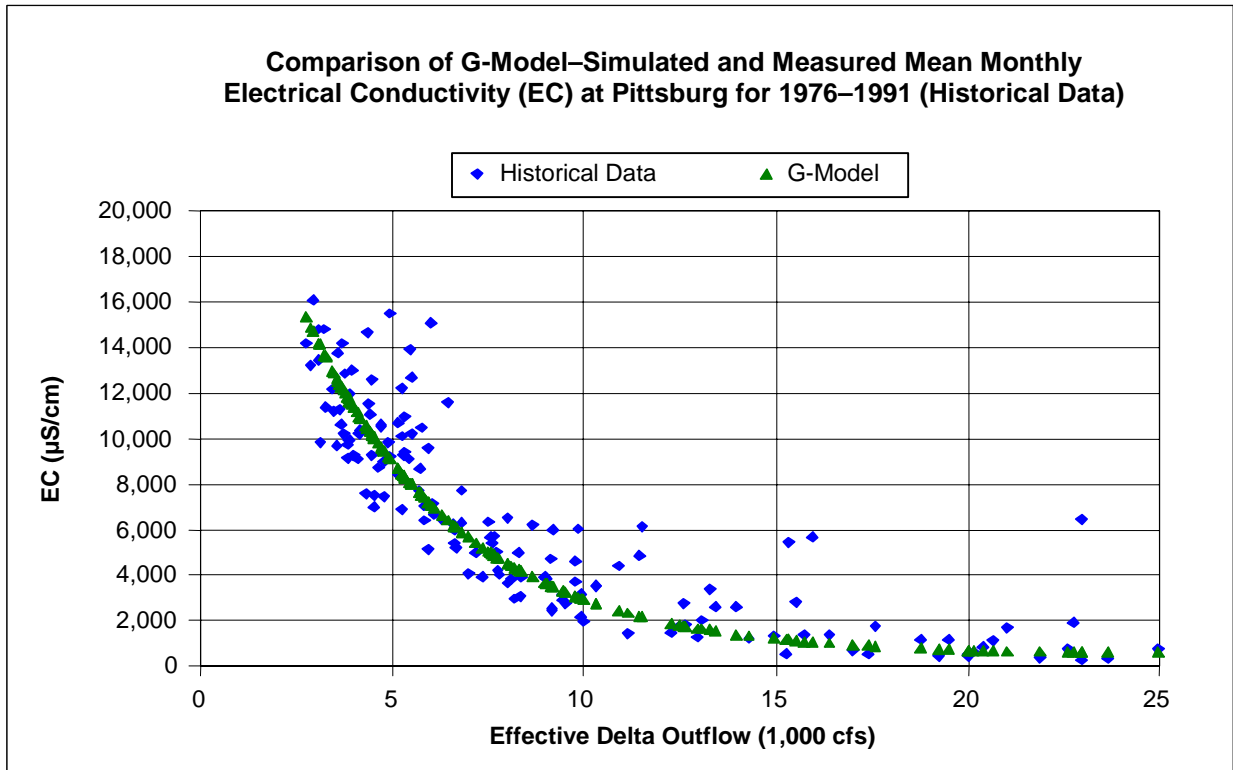
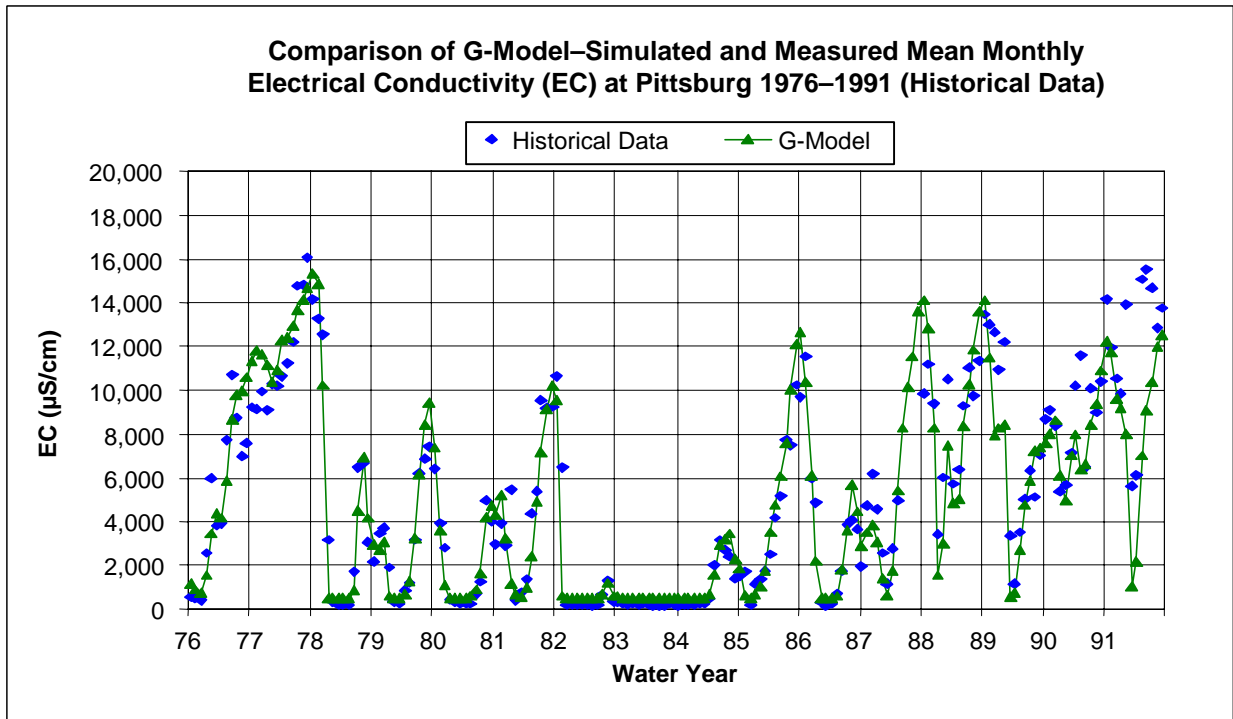
Relationship (Negative Exponential) between Effective Delta Outflow (cfs) and Electrical Conductivity (mS/cm) at Martinez and Jersey Point for Water Year 1987



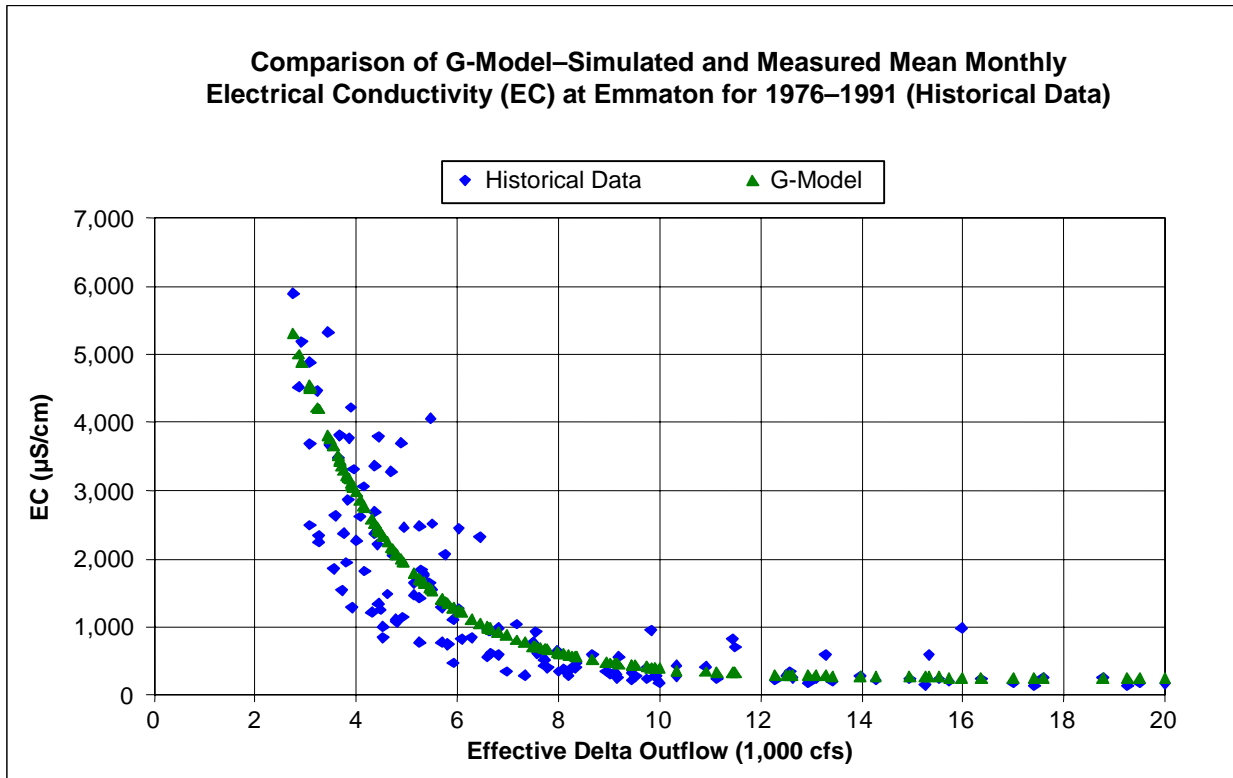
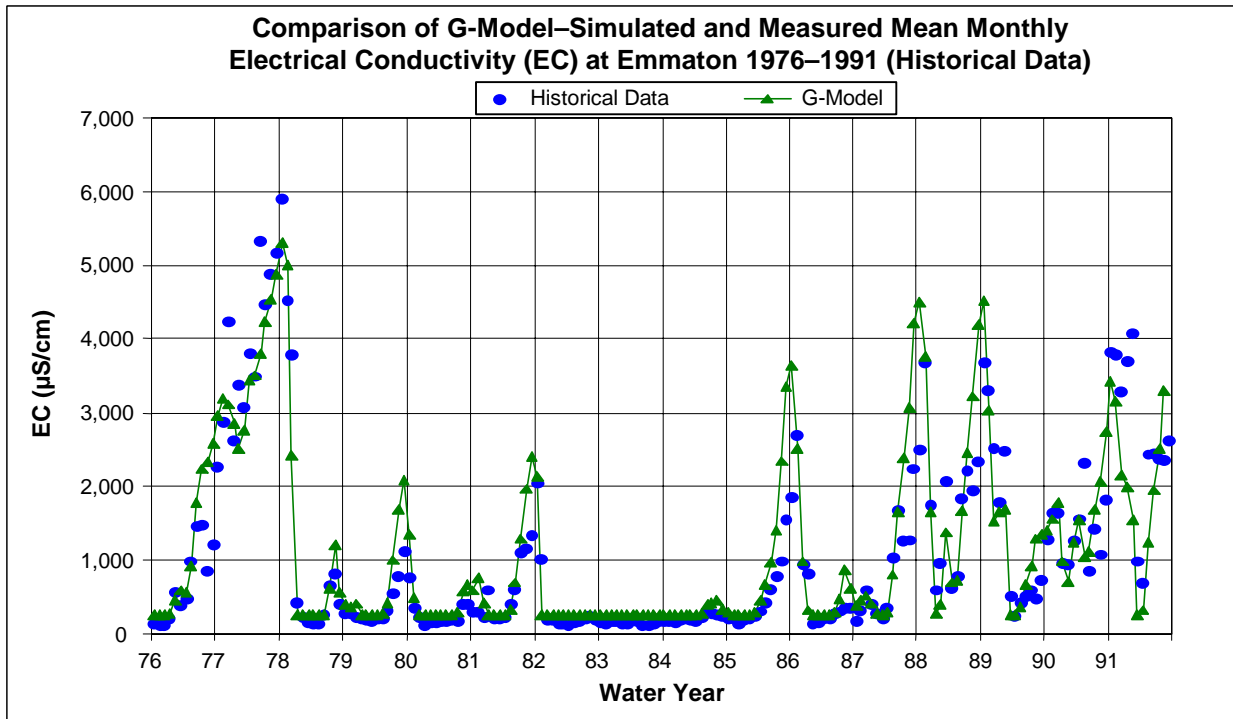
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