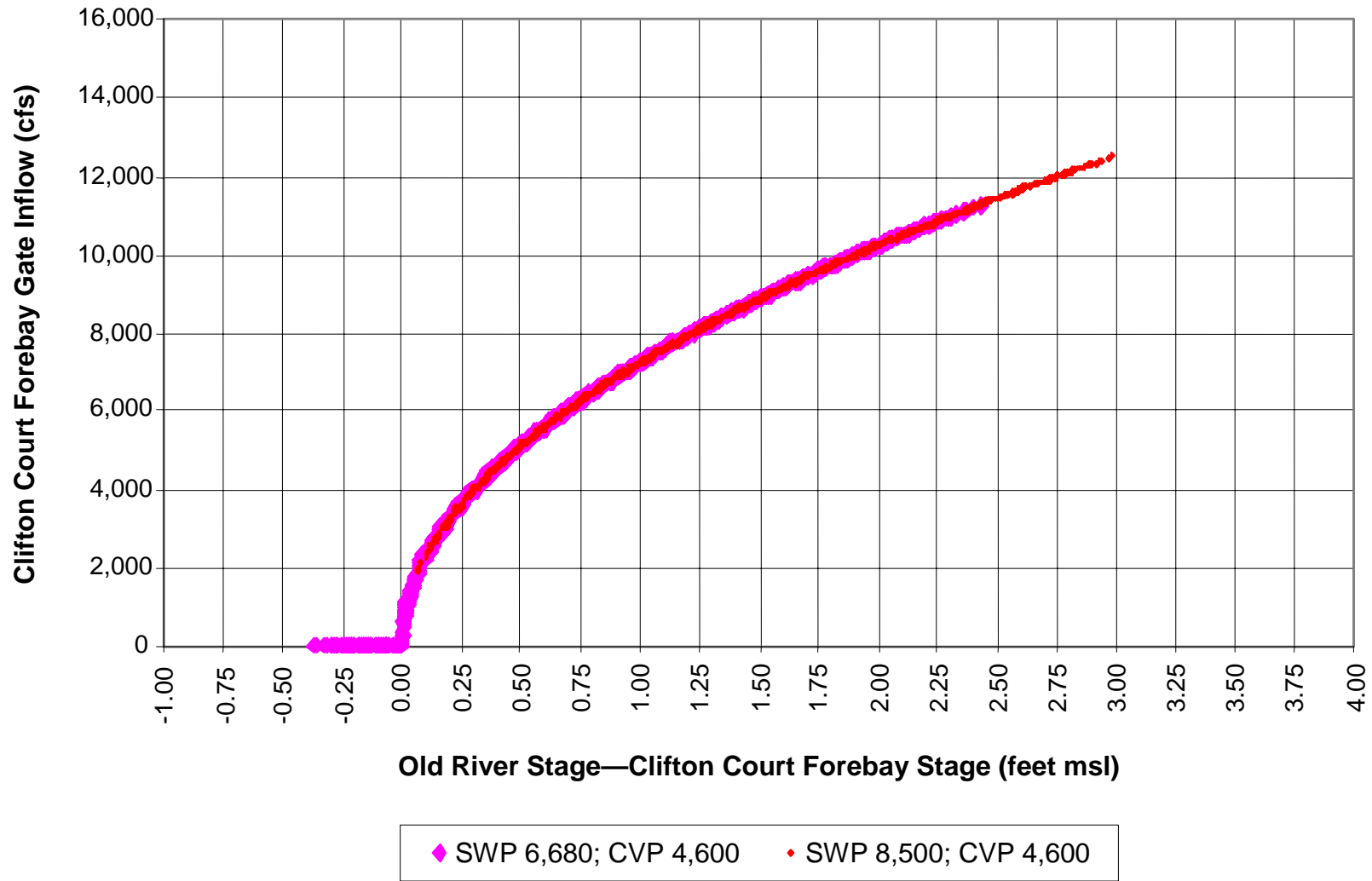
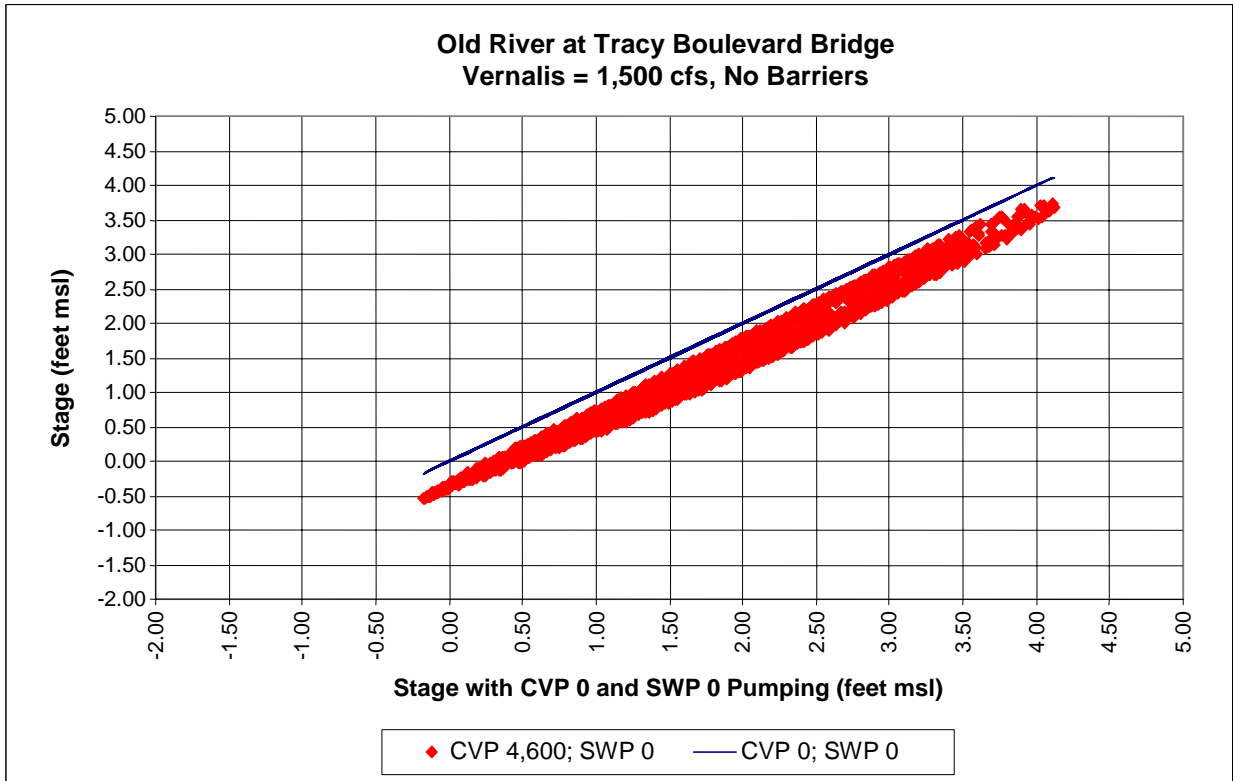
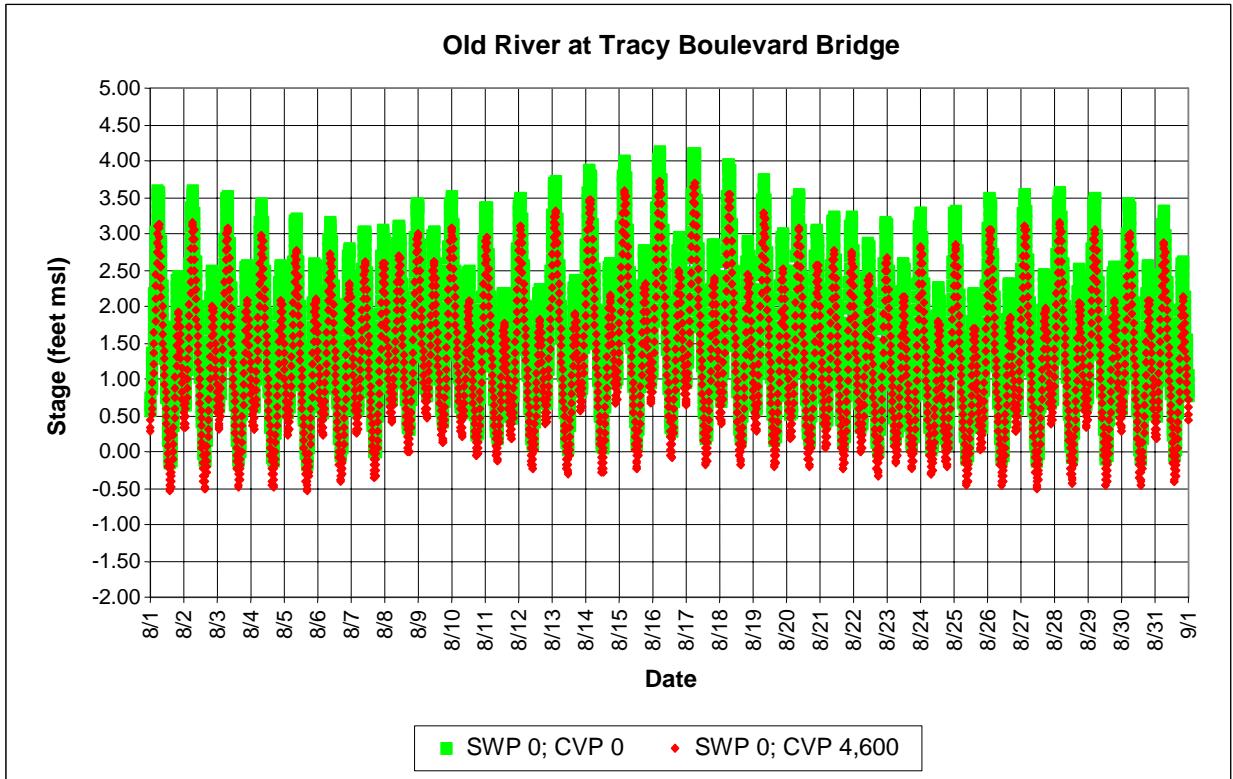


02053.02.101

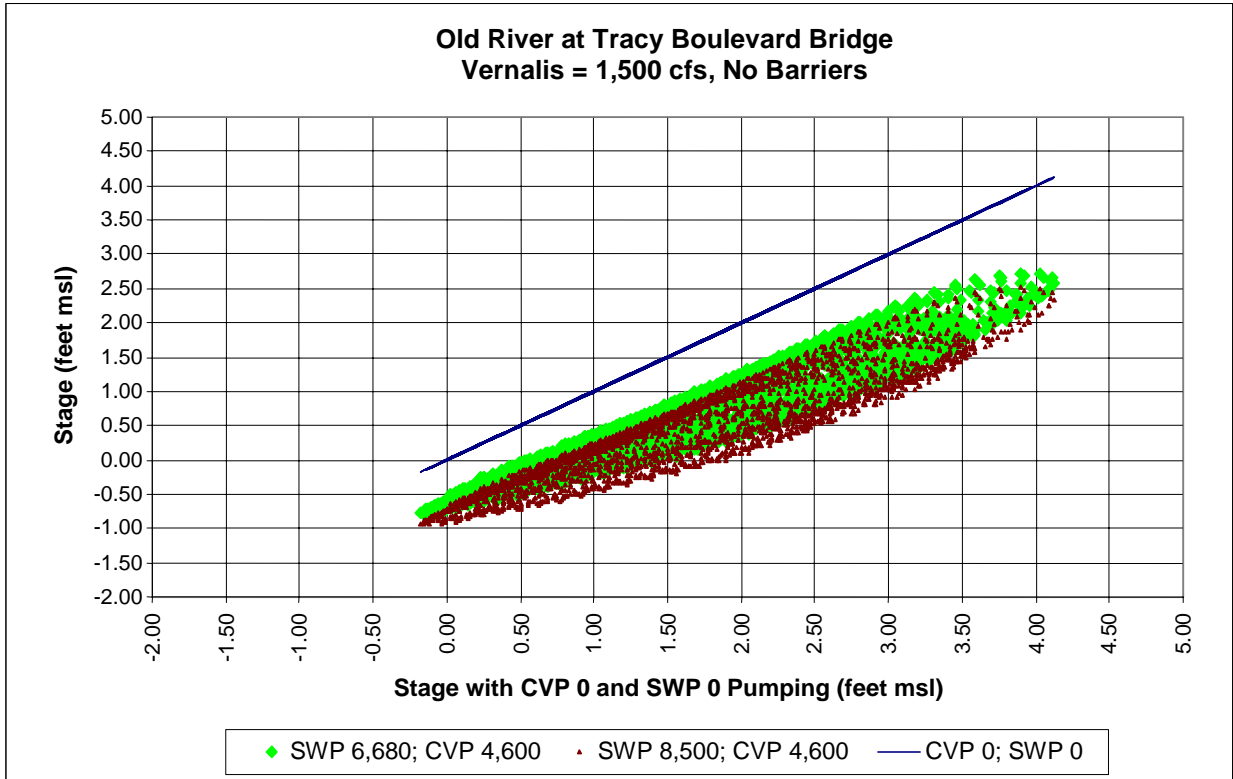
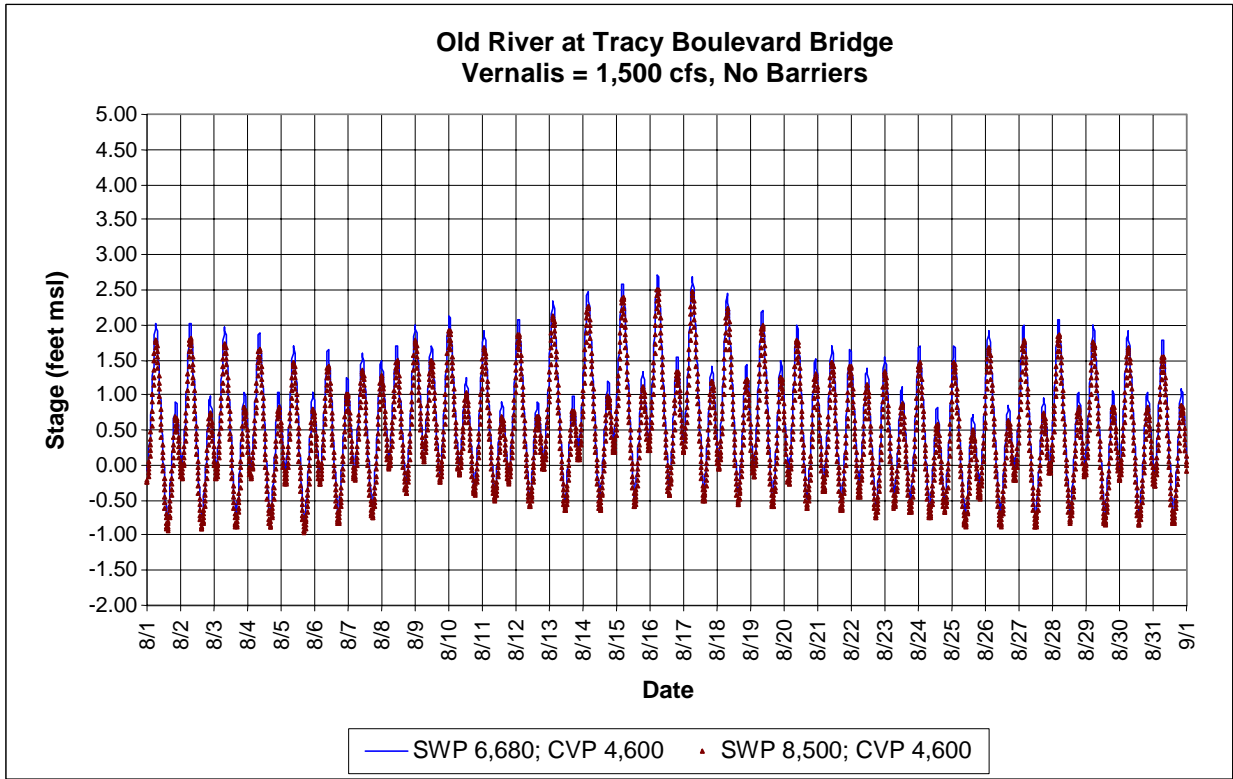
Clifton Court Forebay Weir Coefficient of 1,200 cfs



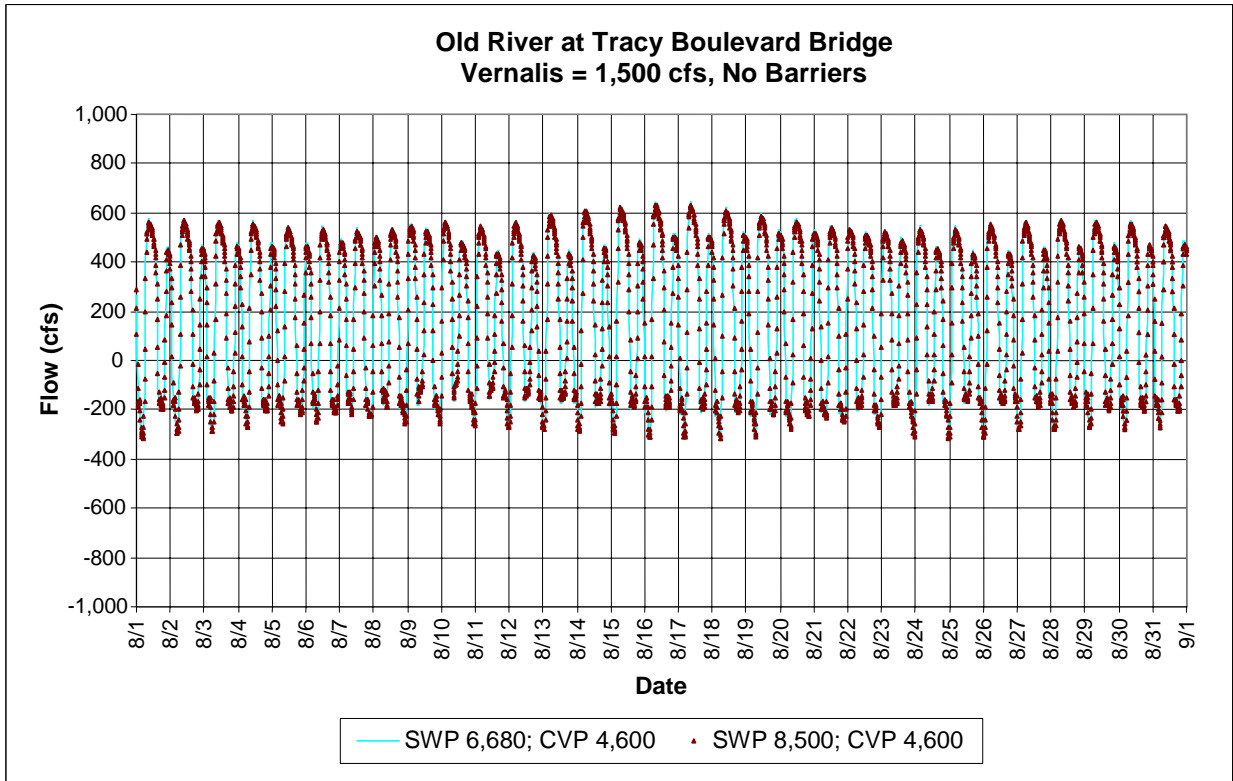
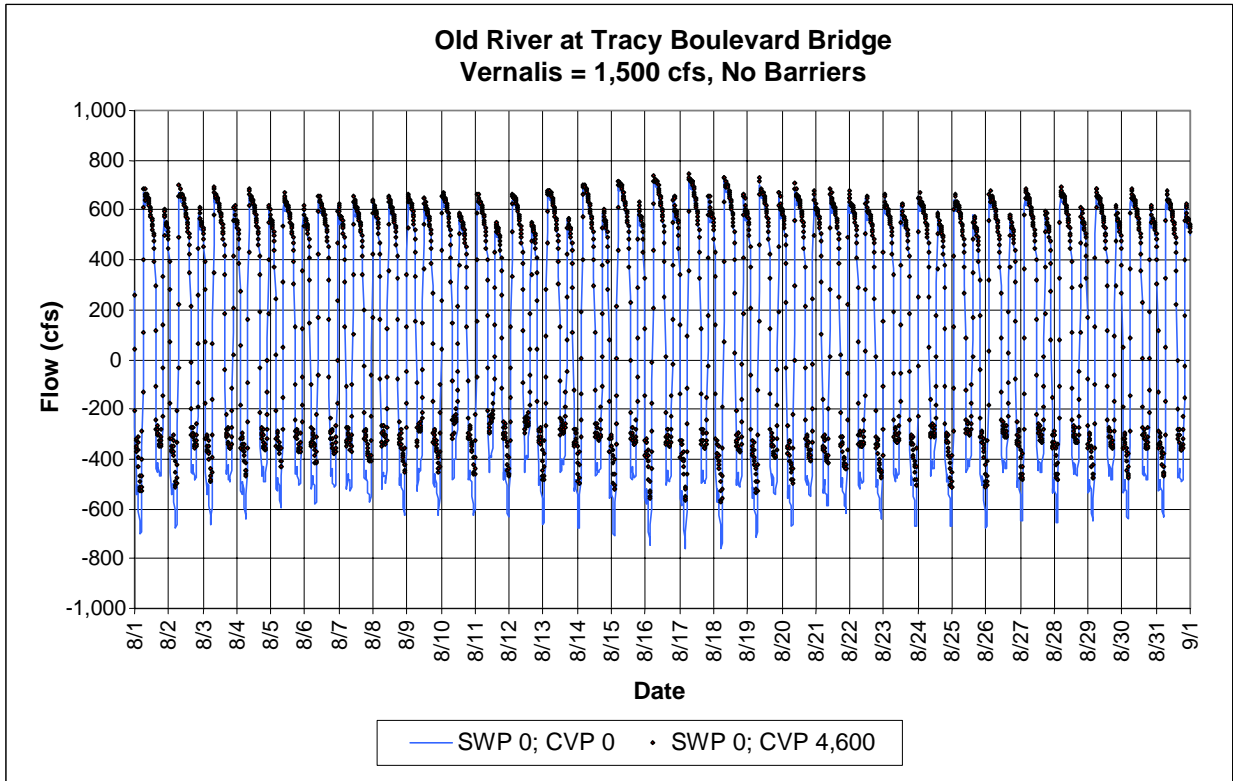
02053.02.101



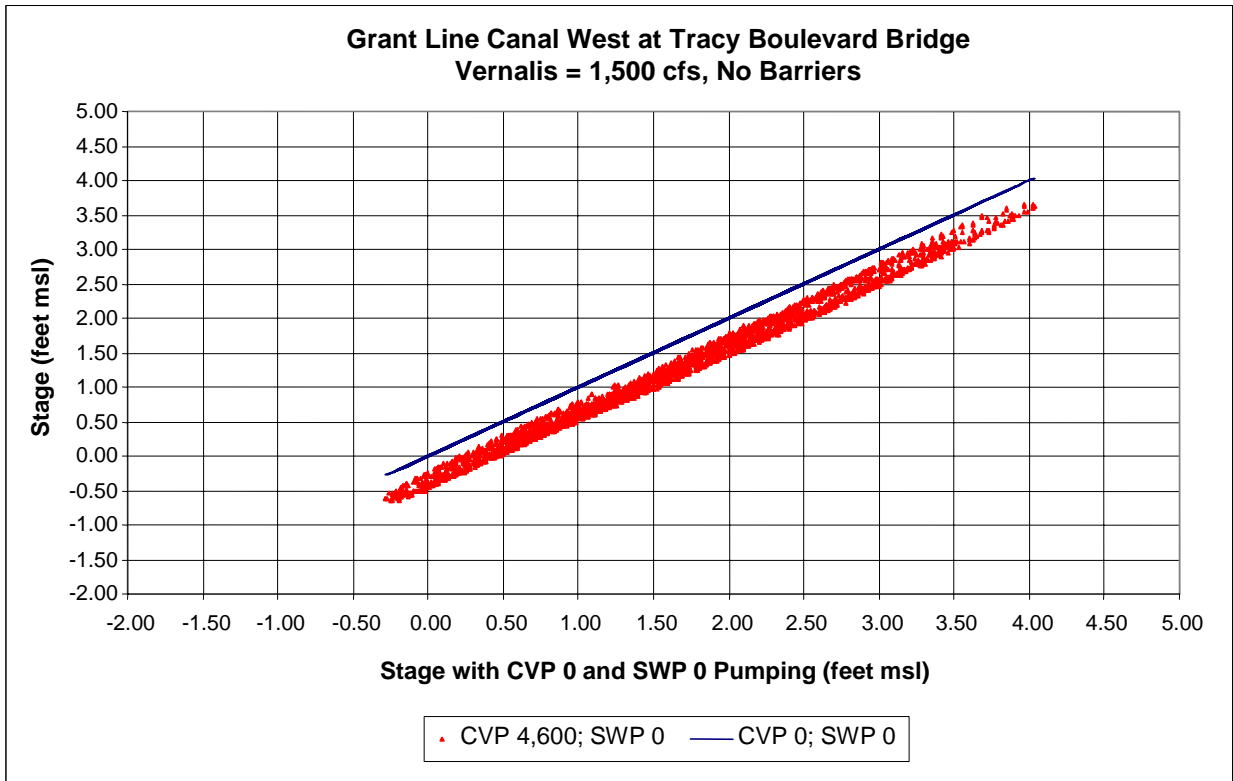
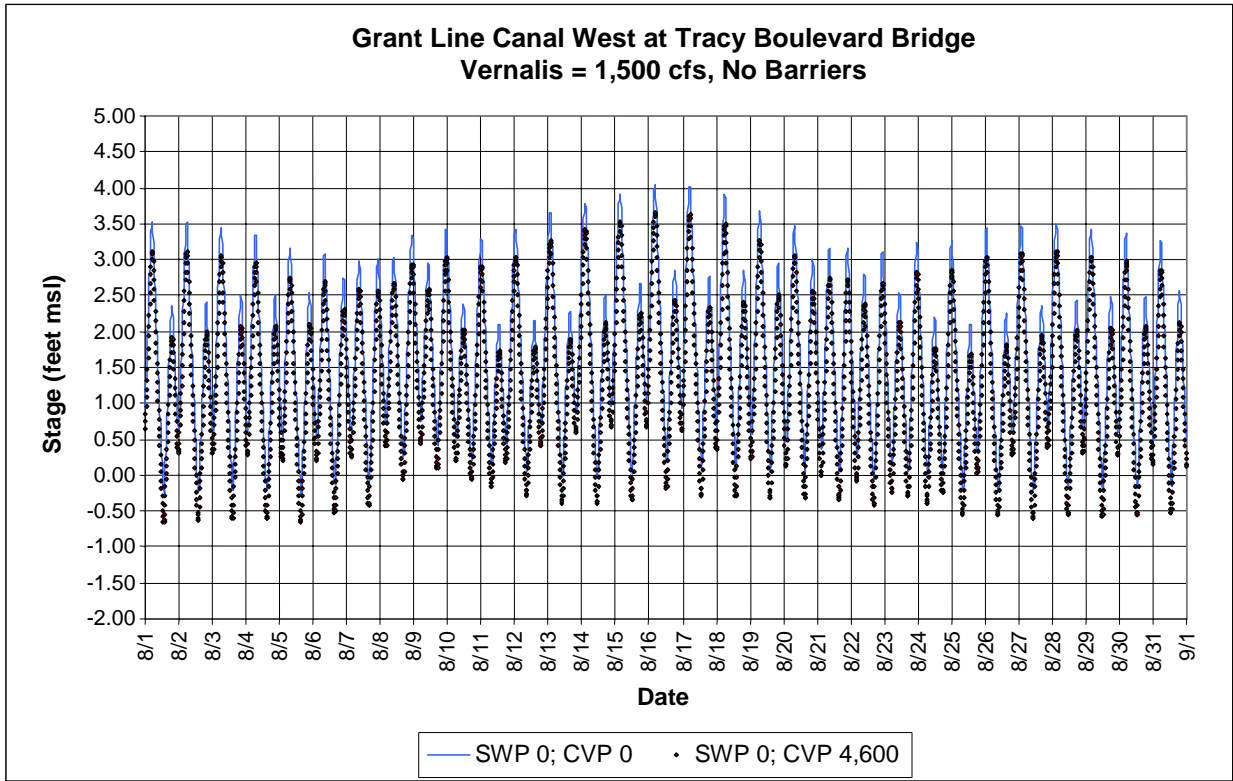
02053.02 101



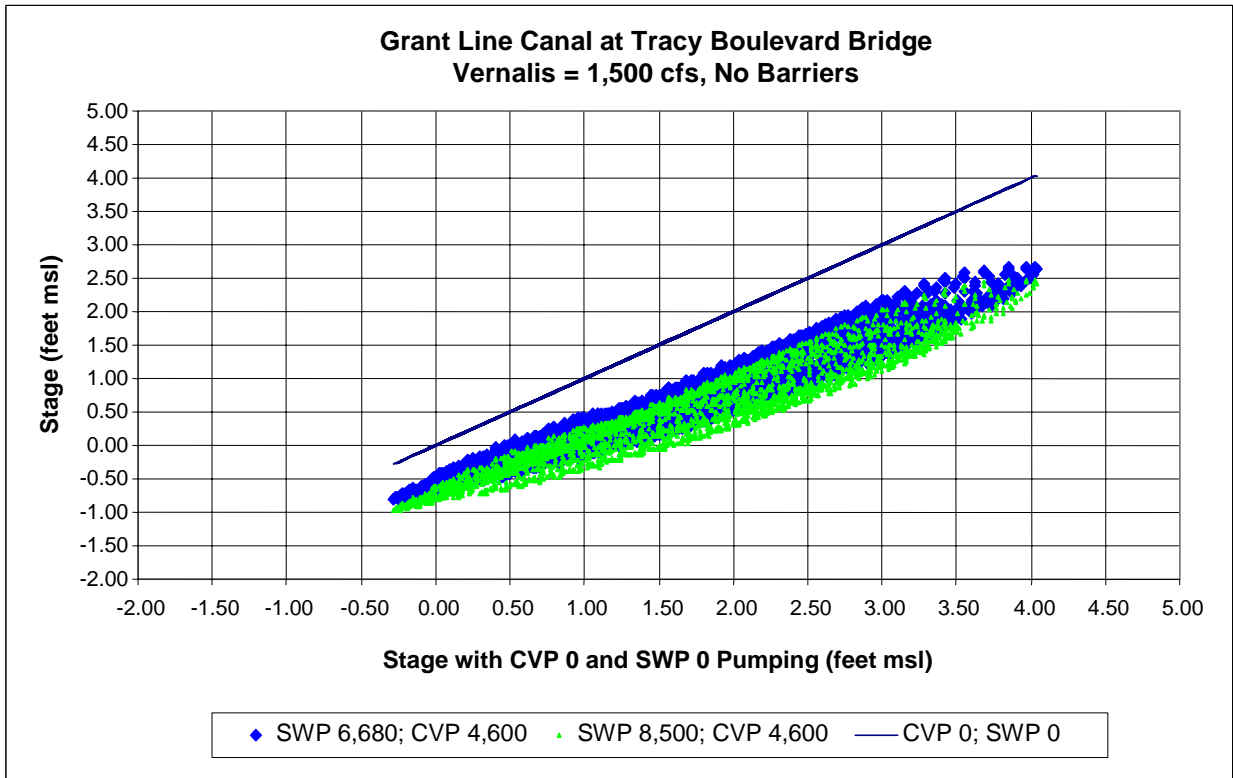
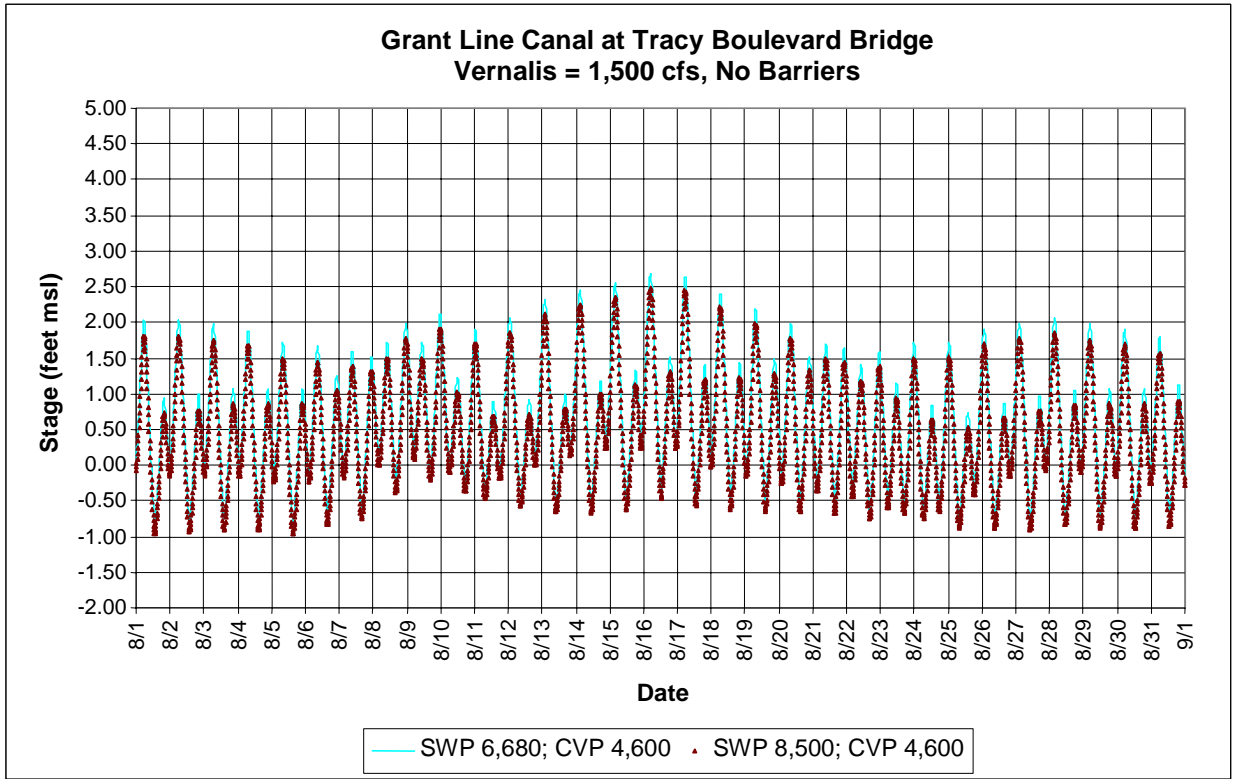
02053.02 101



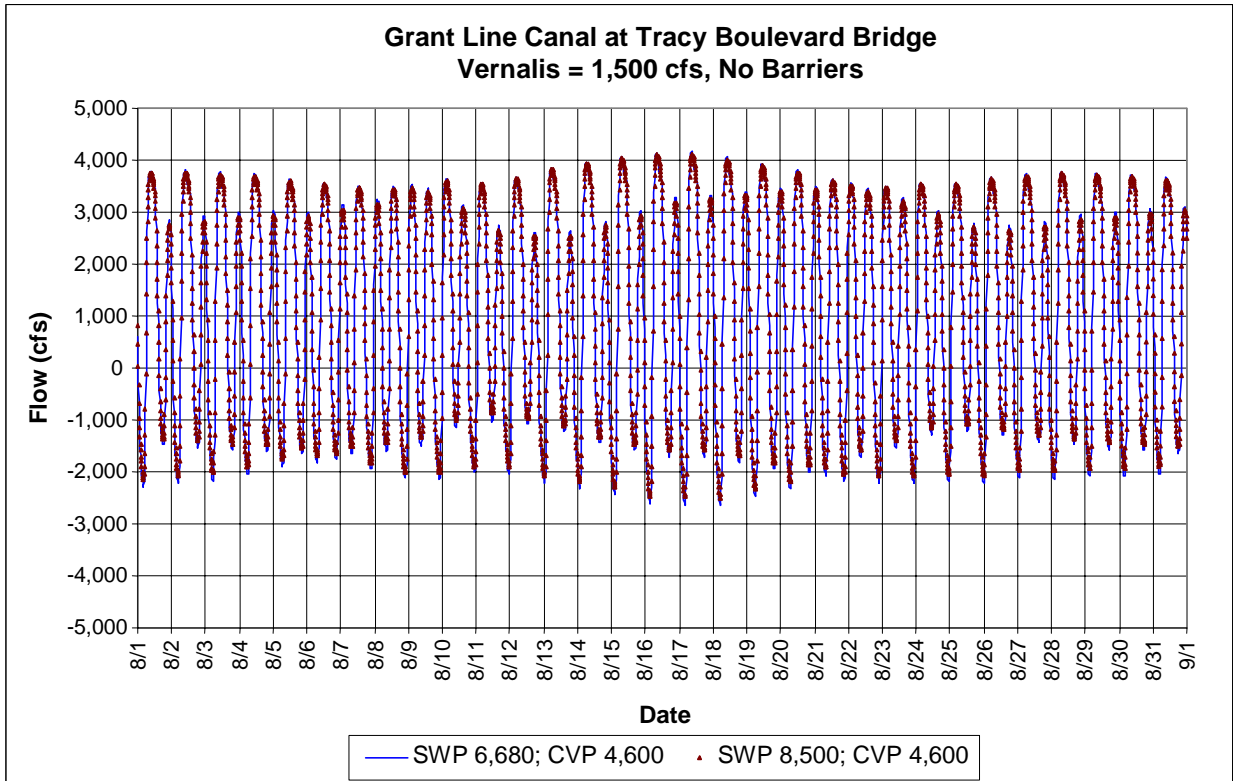
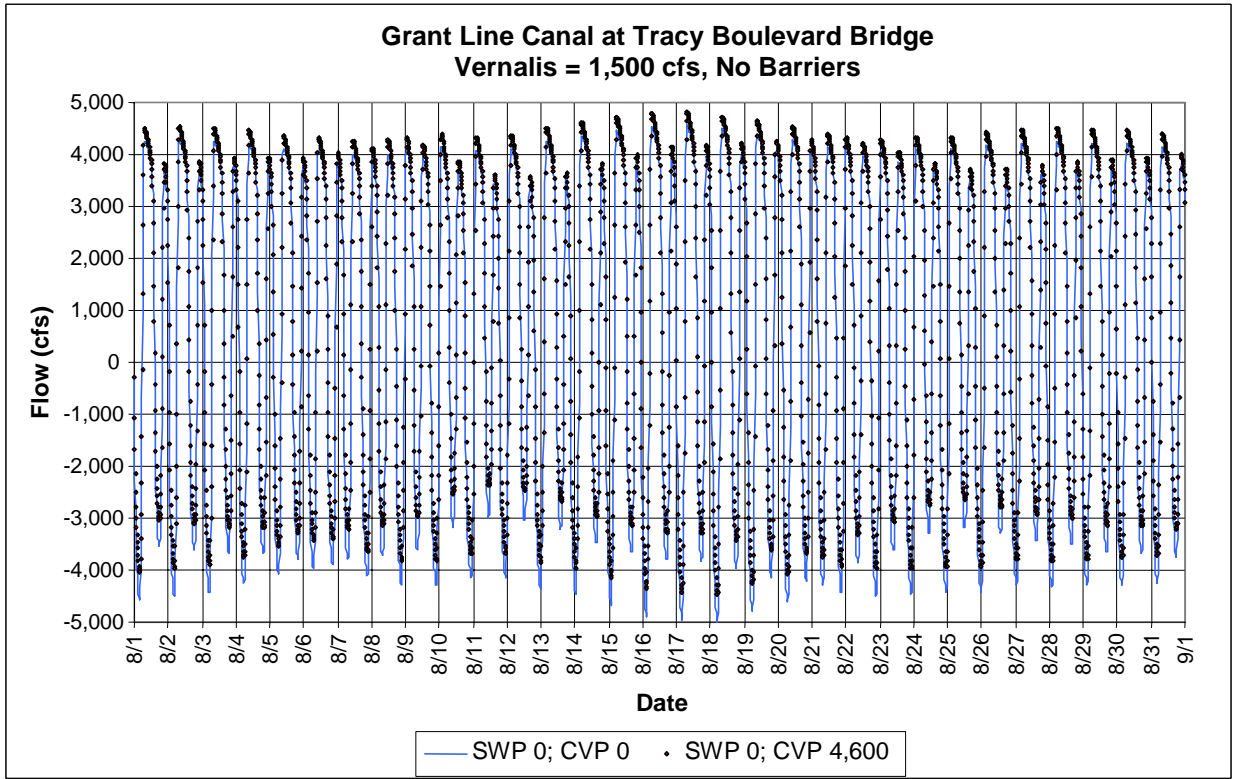
02053.02 101



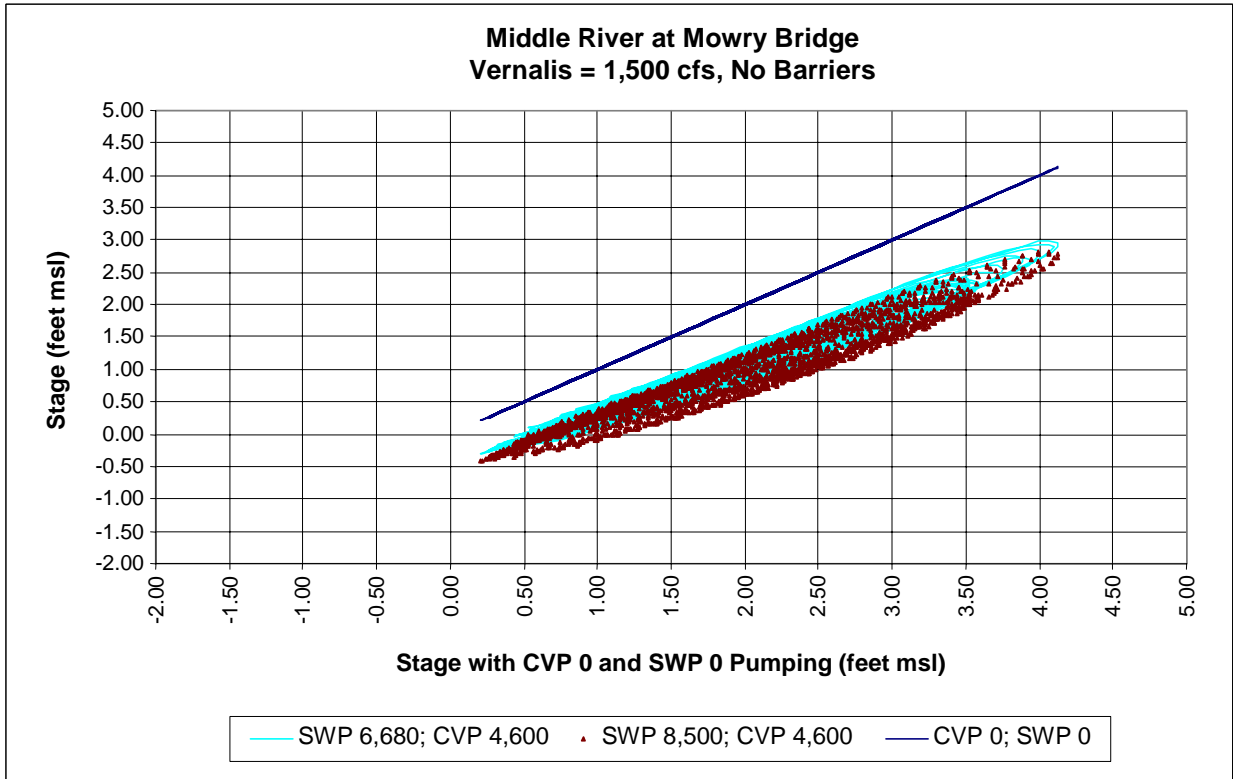
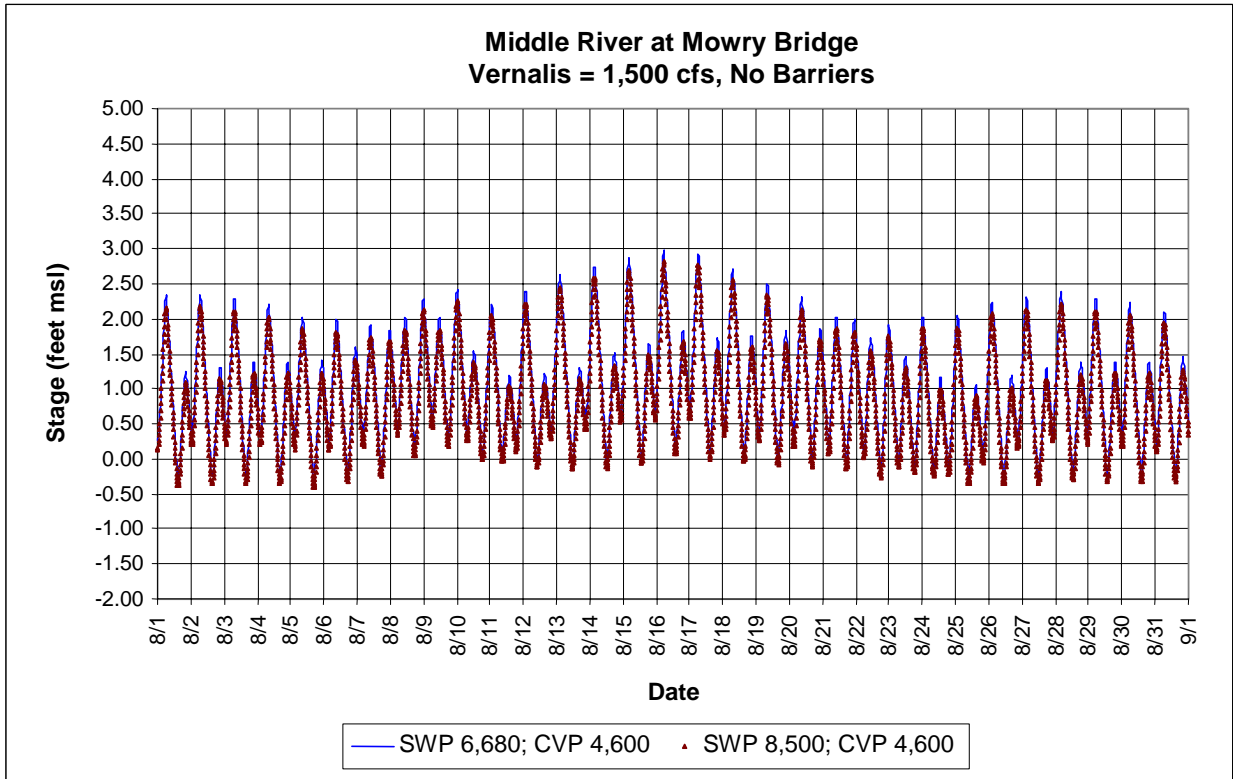
02053.02 101



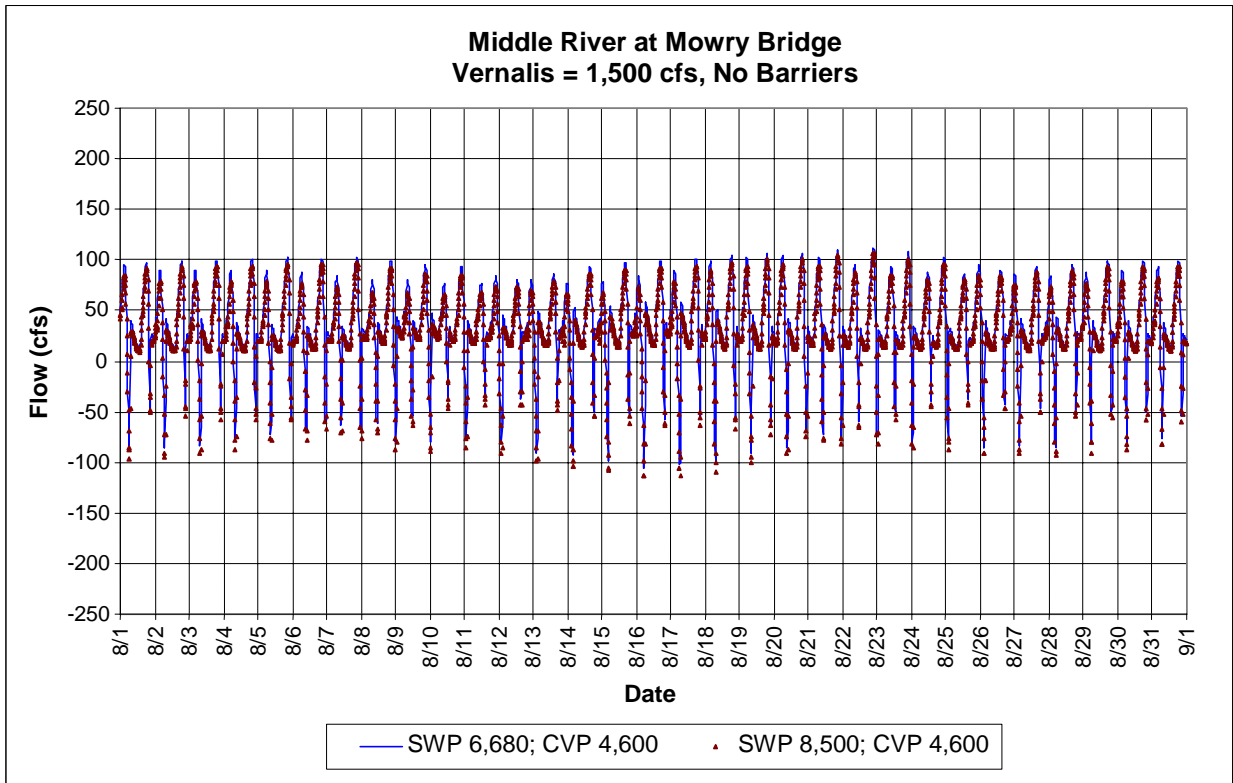
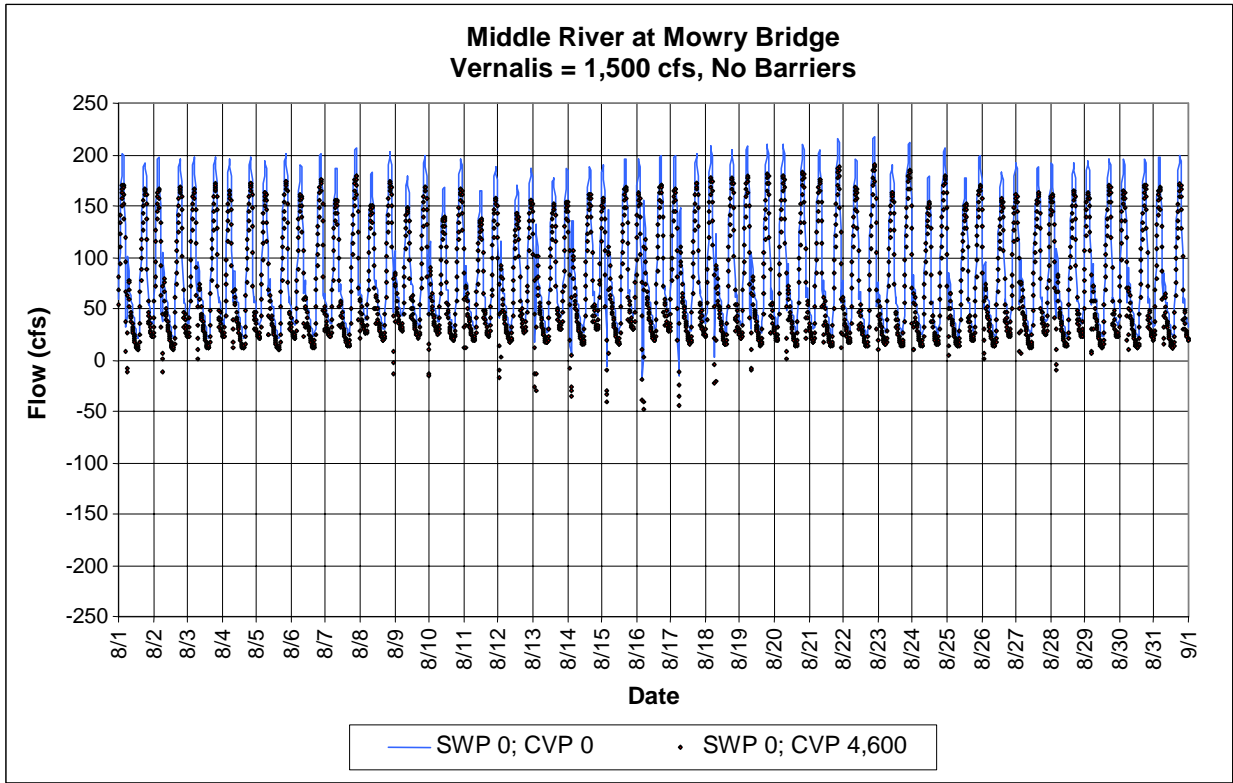
02053.02 101



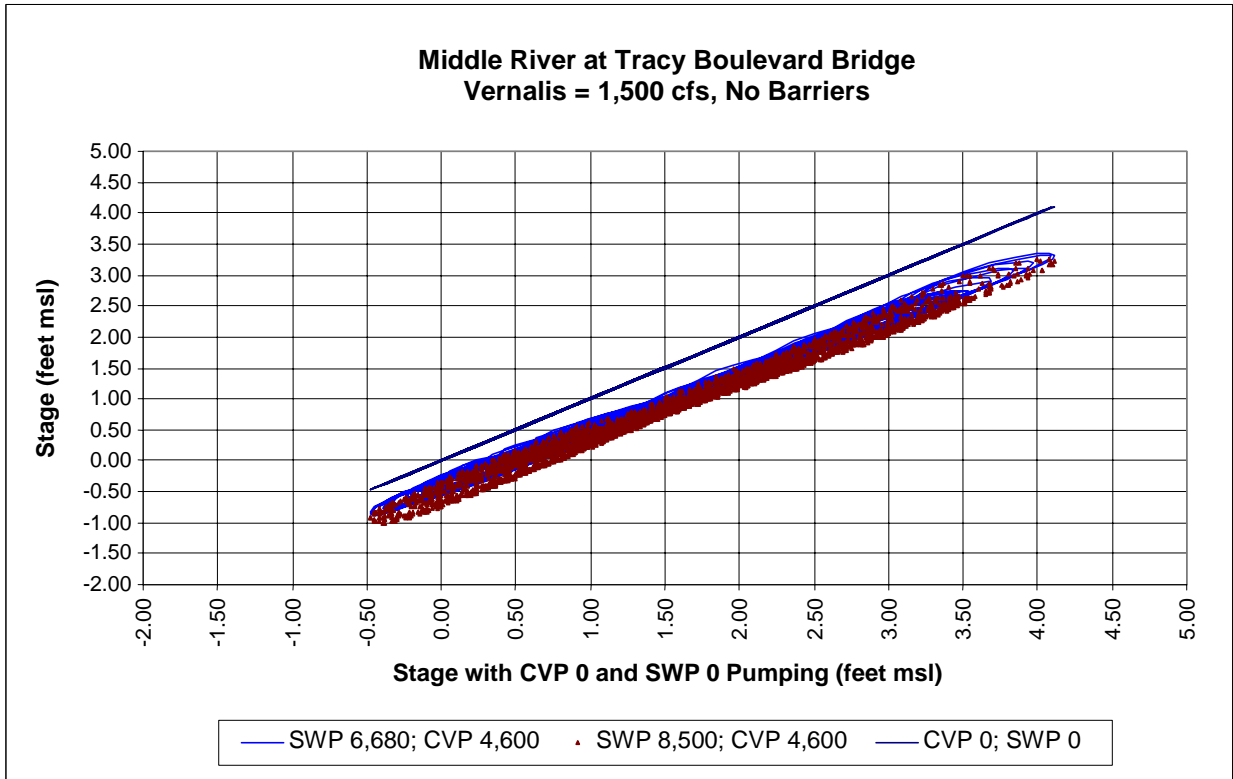
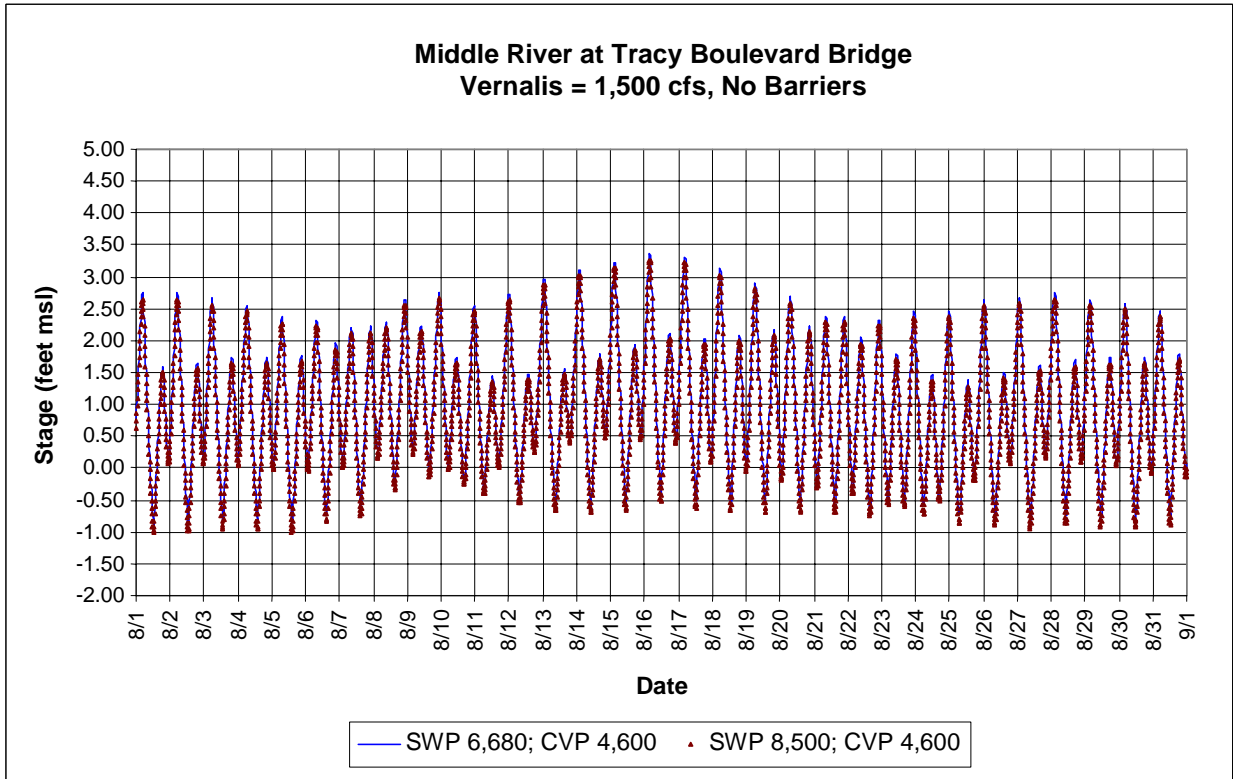
02053.02 101



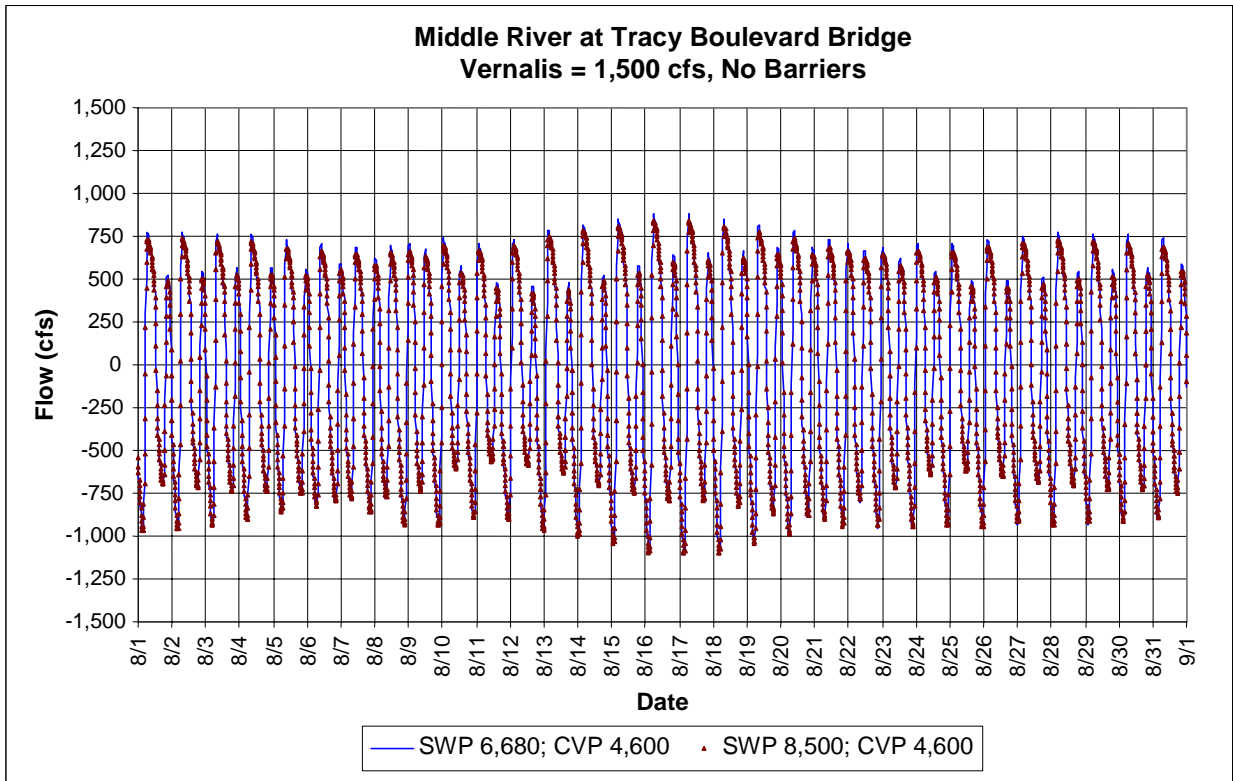
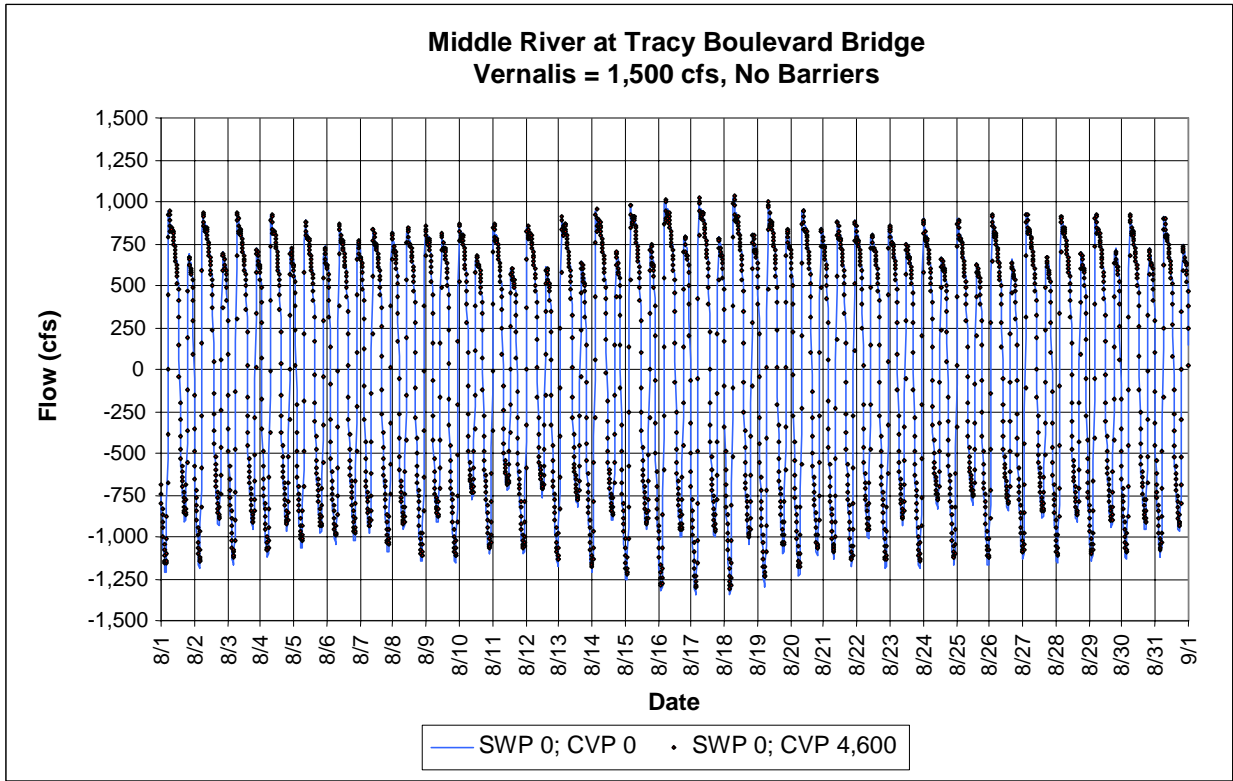
02053.02 101



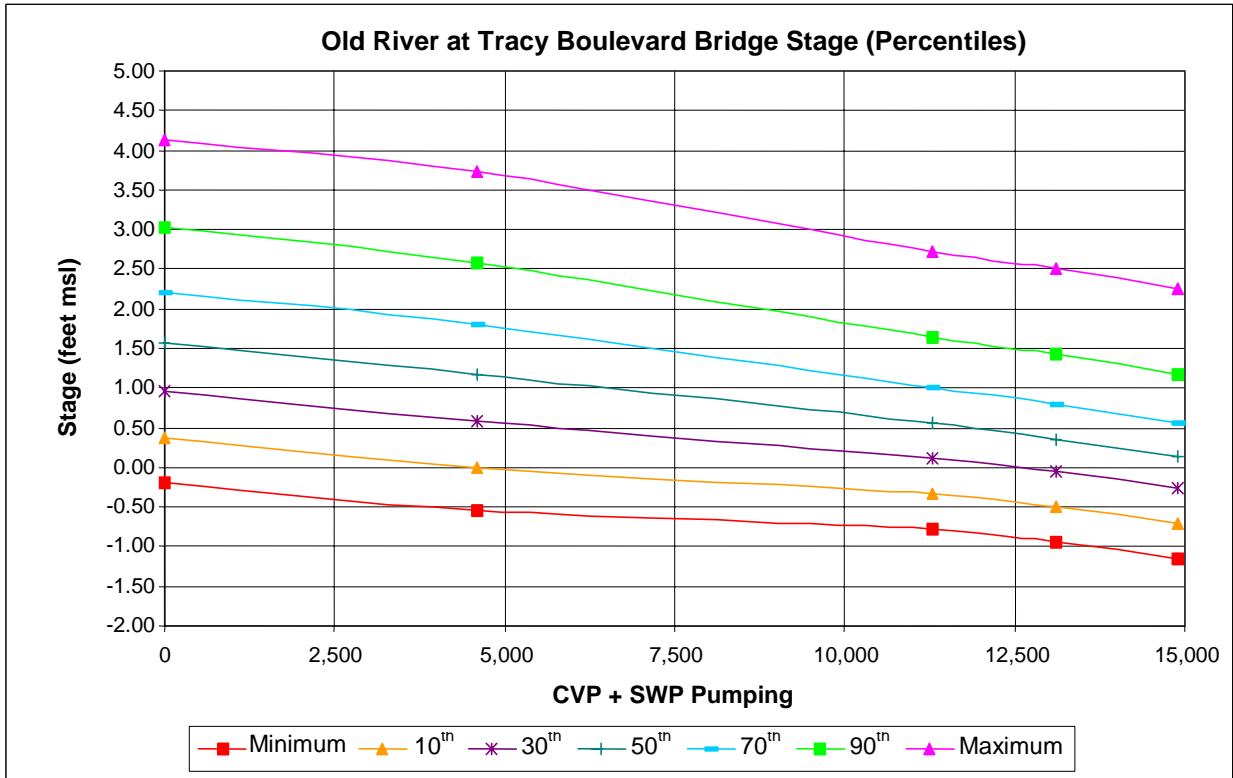
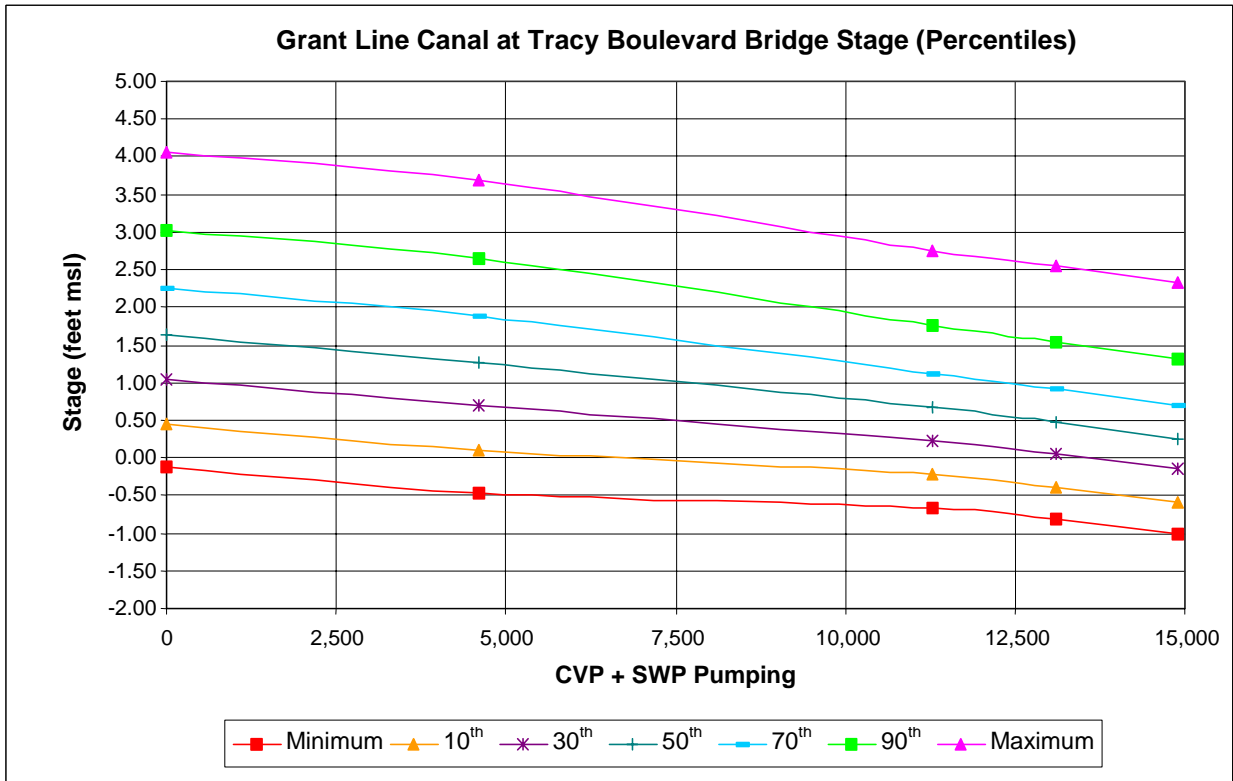
02053.02 101



02053.02 101

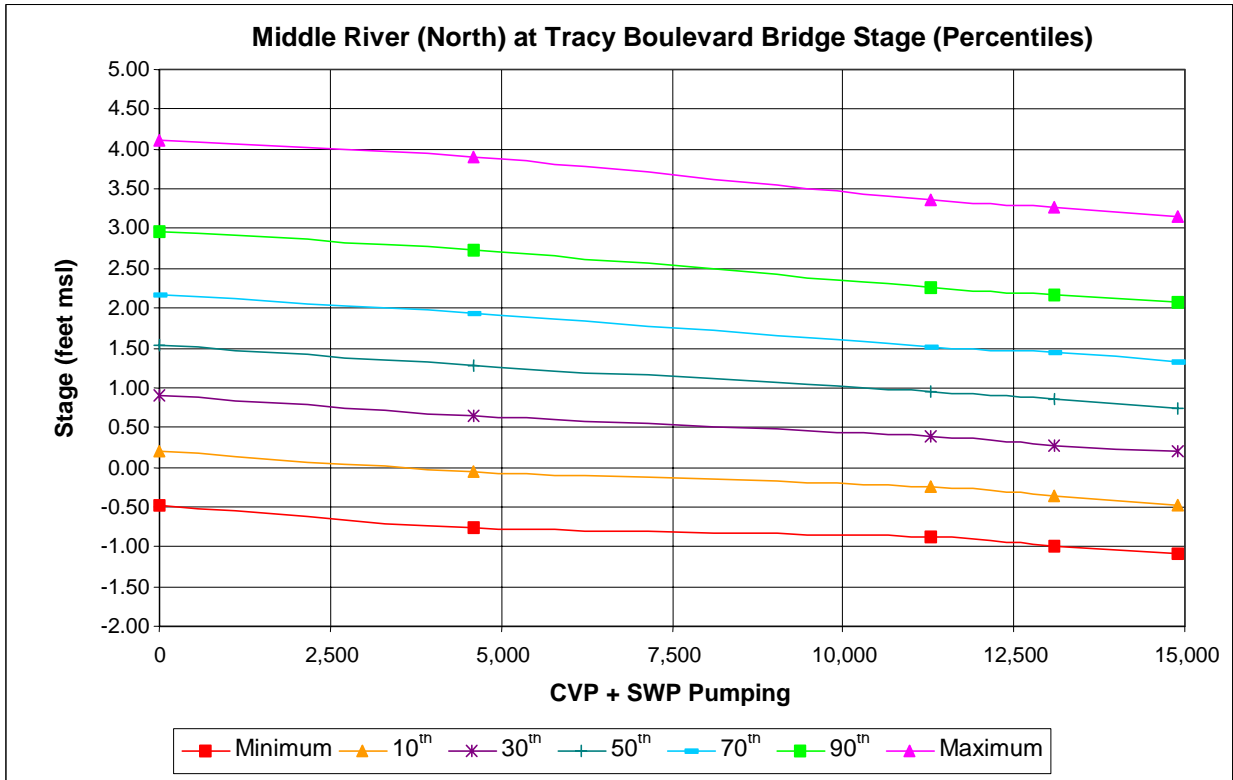
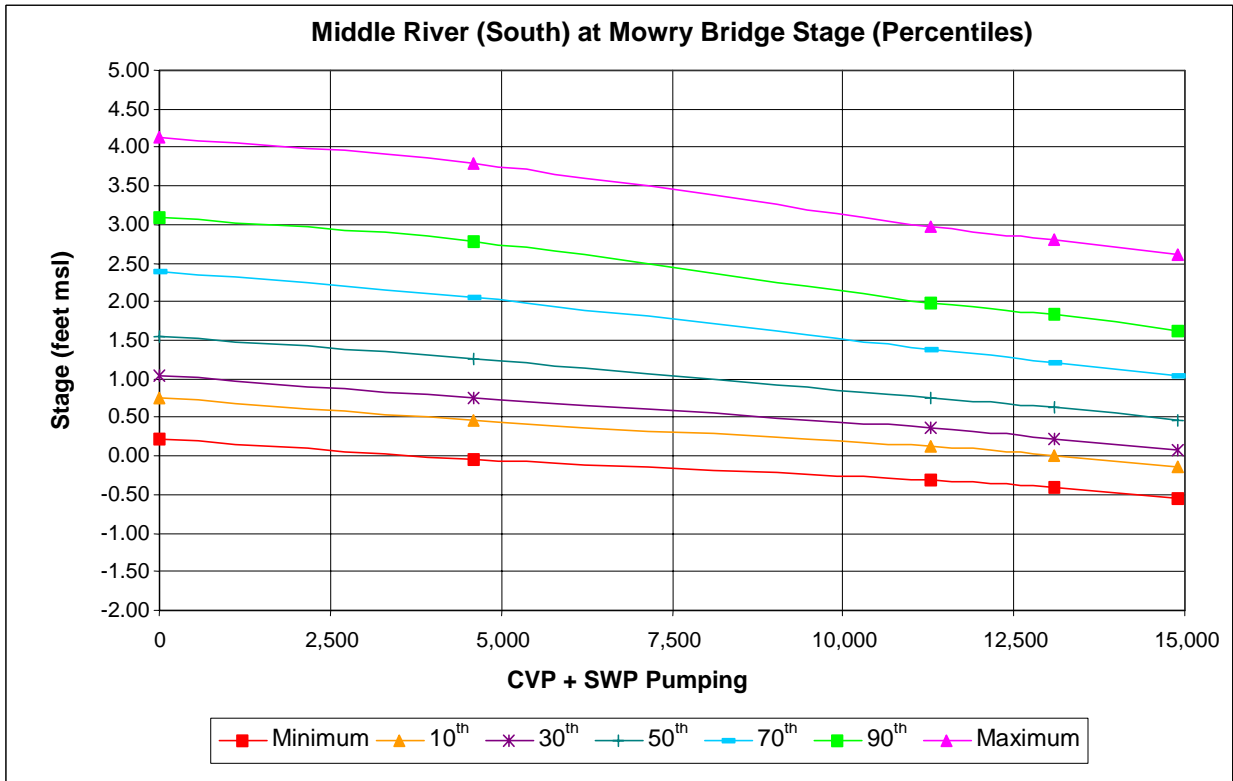


02053.02 101



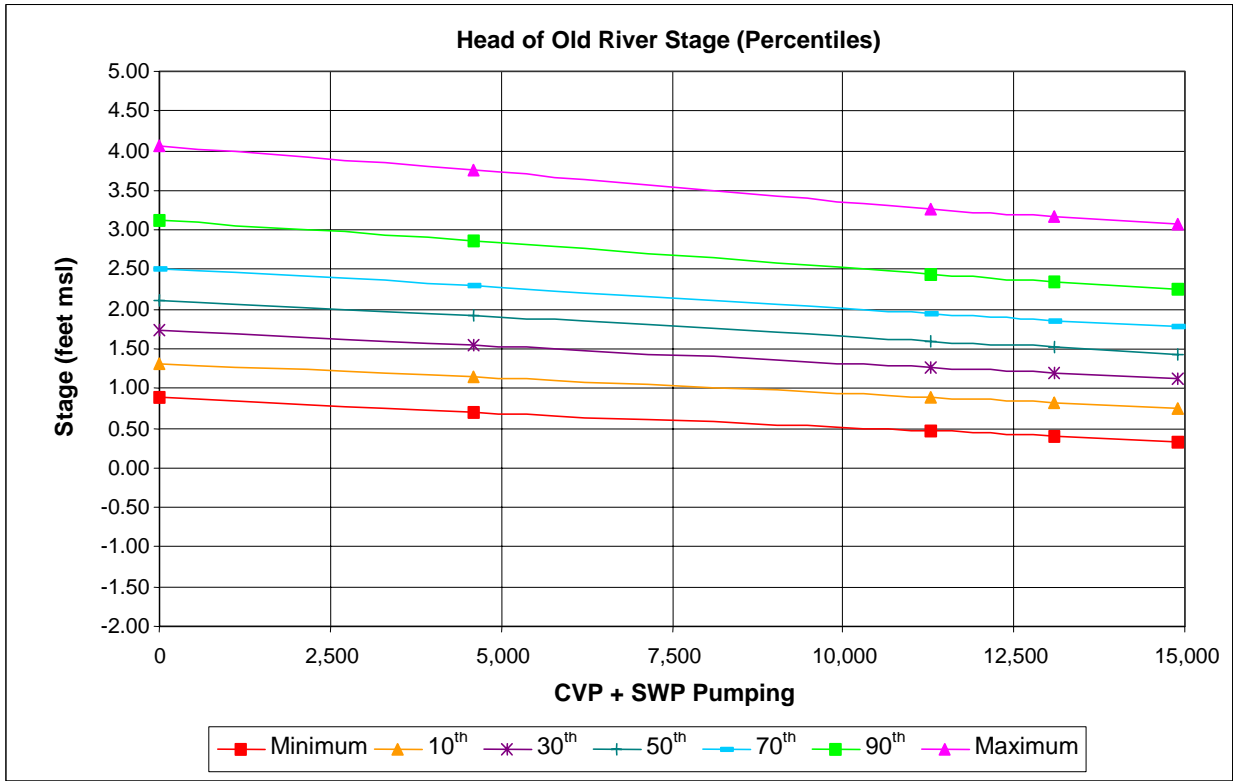
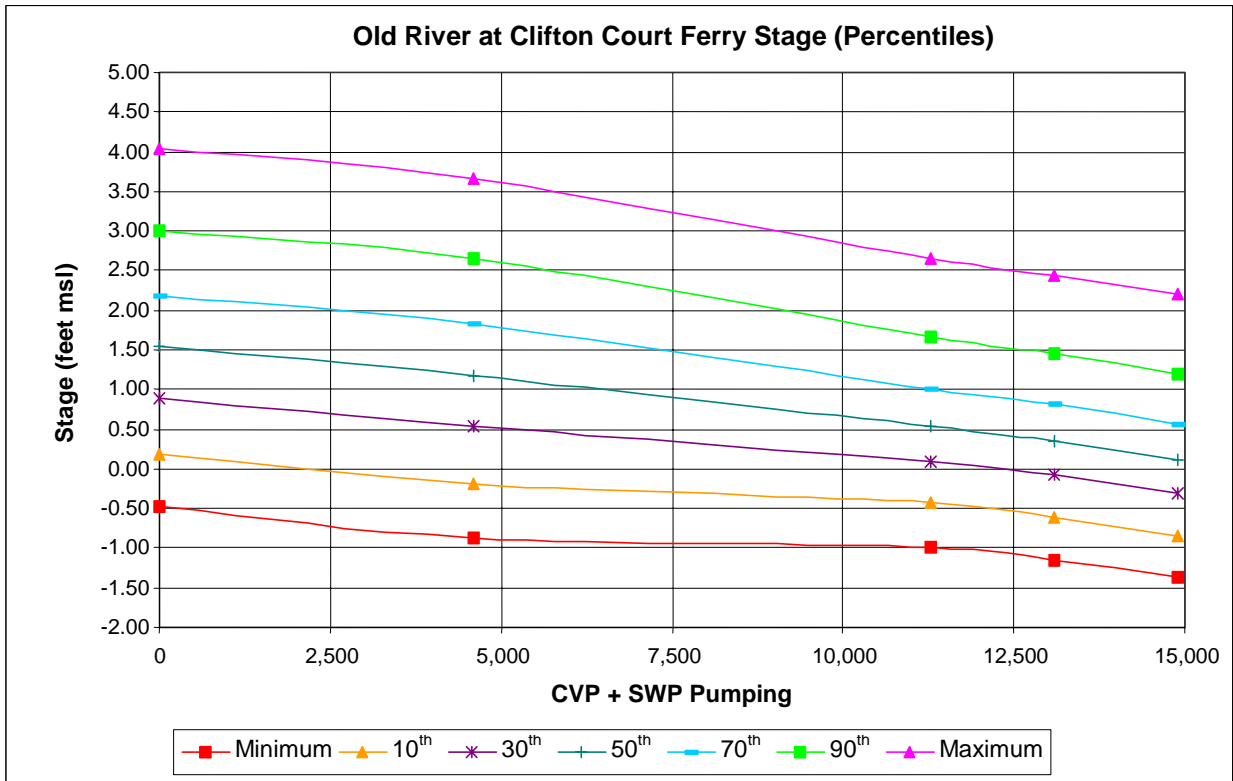
02053.02.101

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

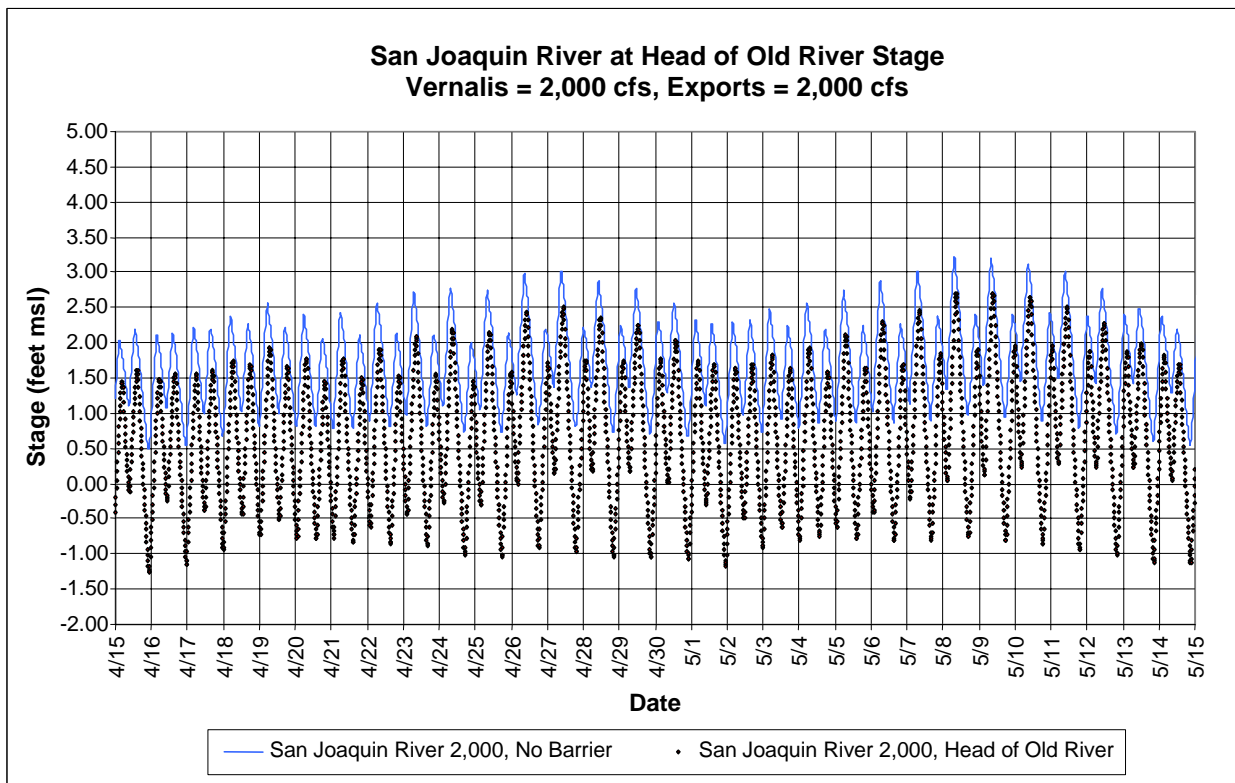
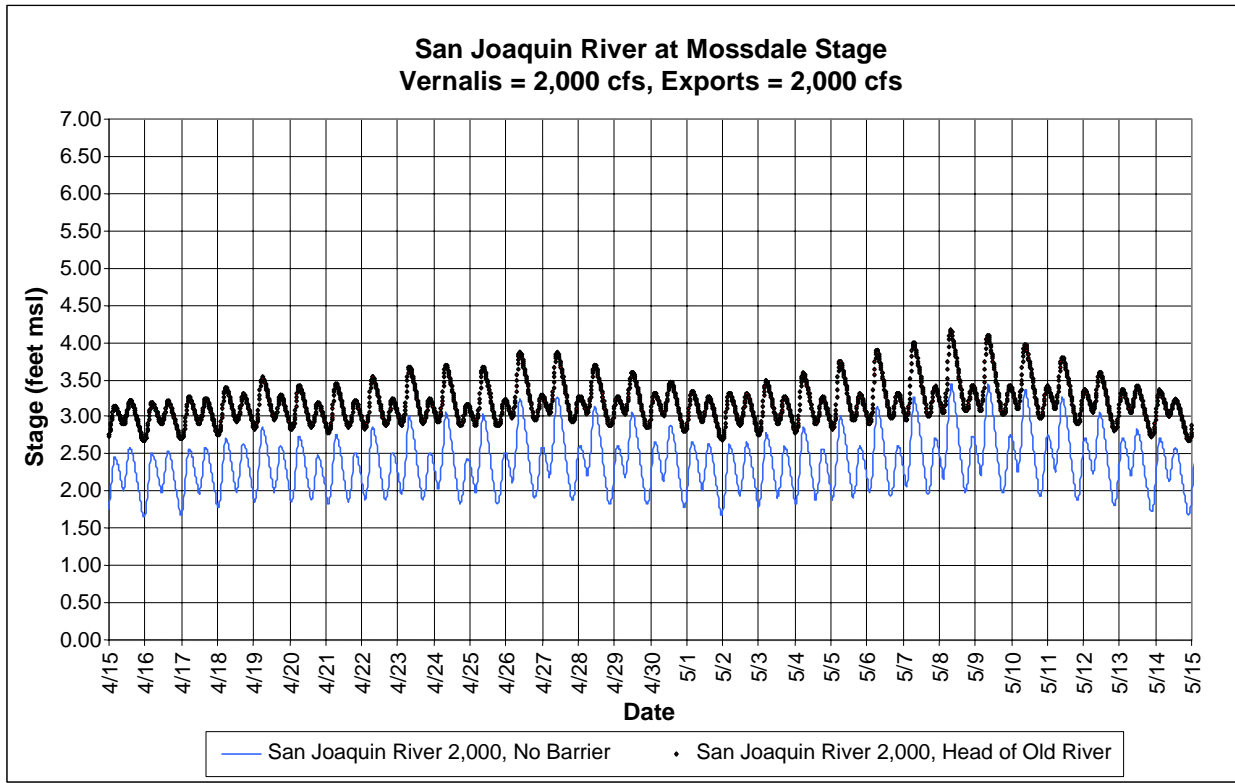


02053.02.101

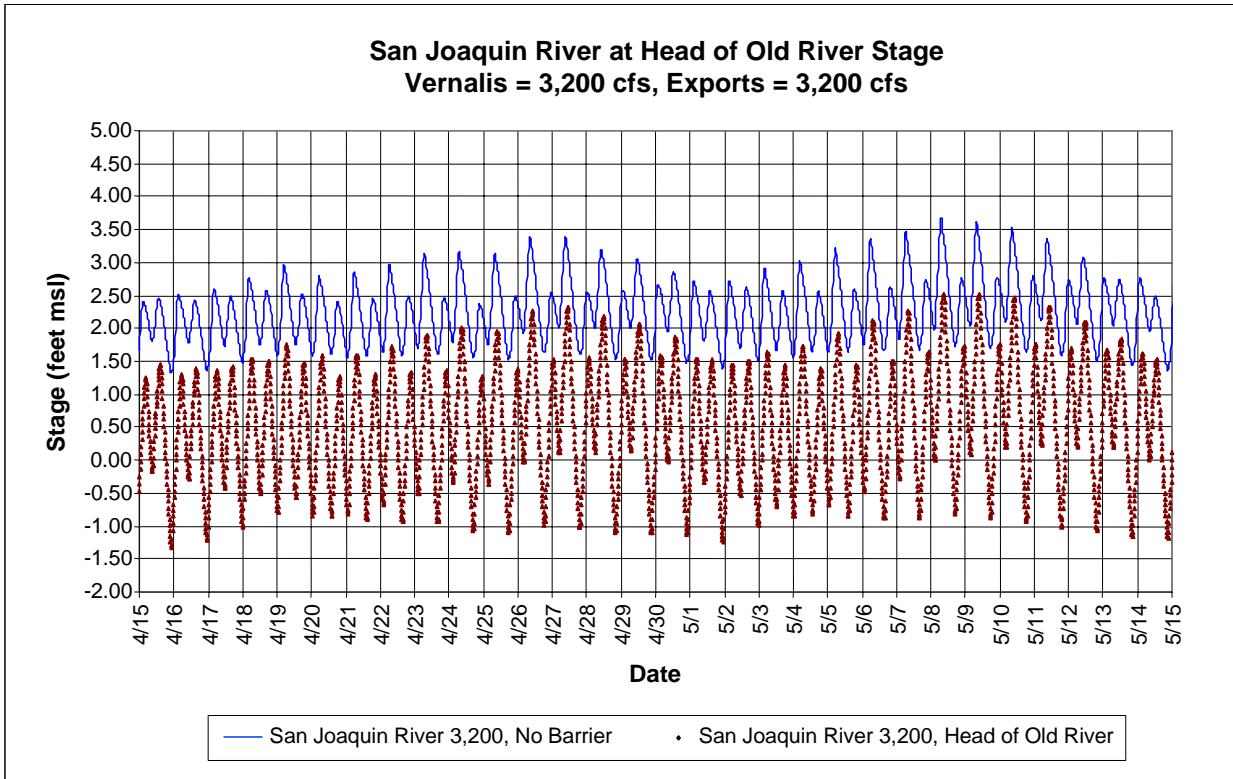
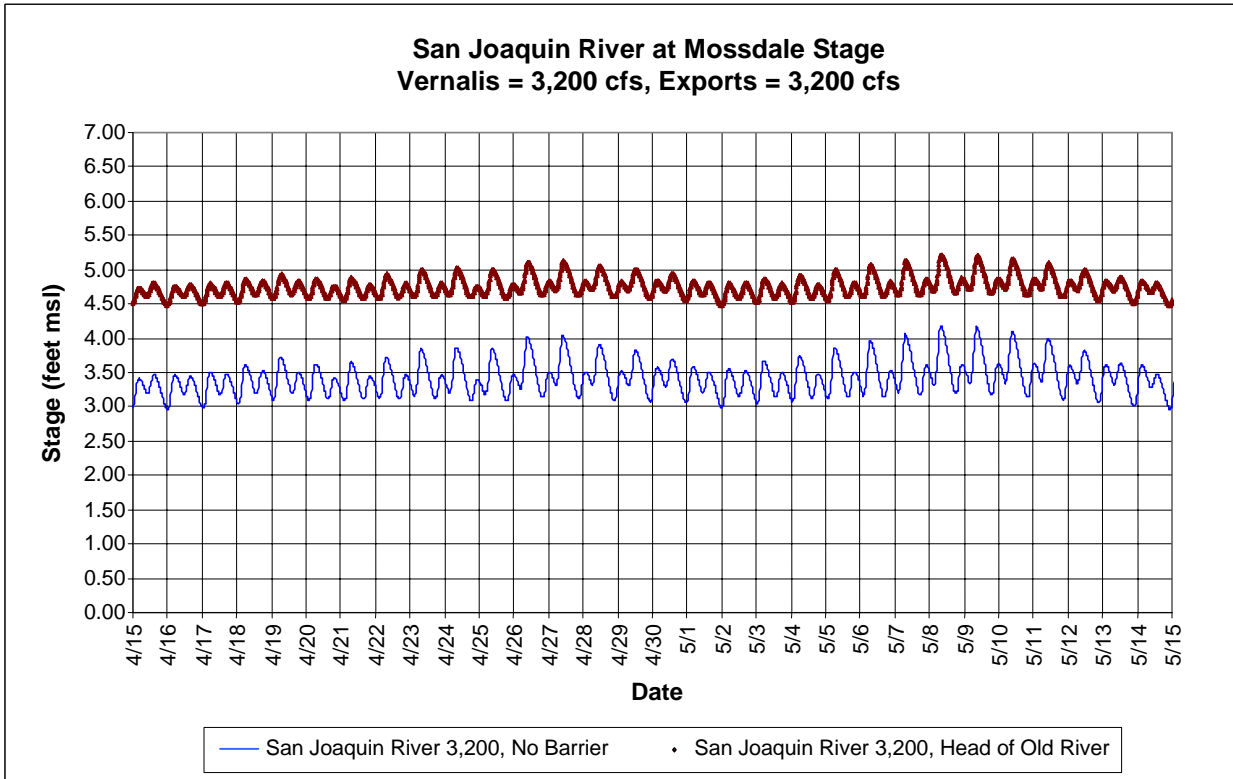
**Simulated Monthly Water-Surface Elevation (Stage)
in Middle River at Mowry and Tracy Boulevard Bridges
for Combined CVP and SWP Pumping**



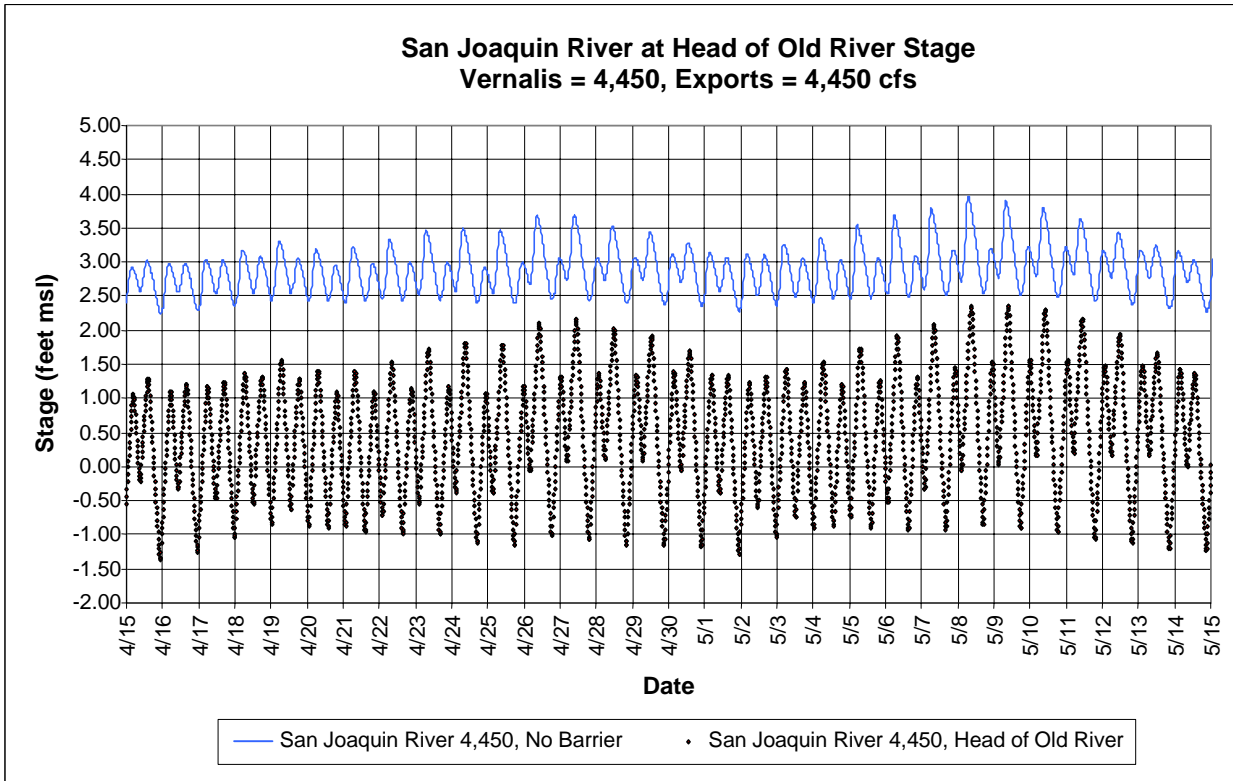
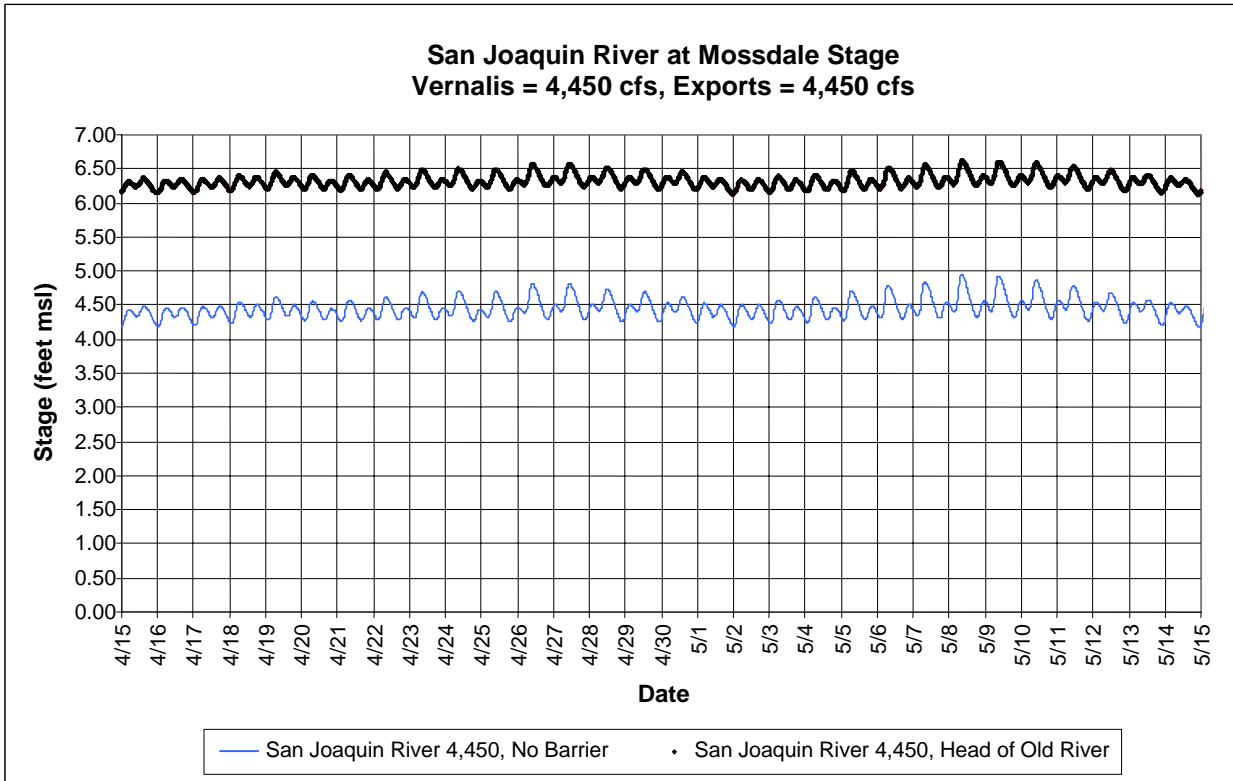
02053.02.101



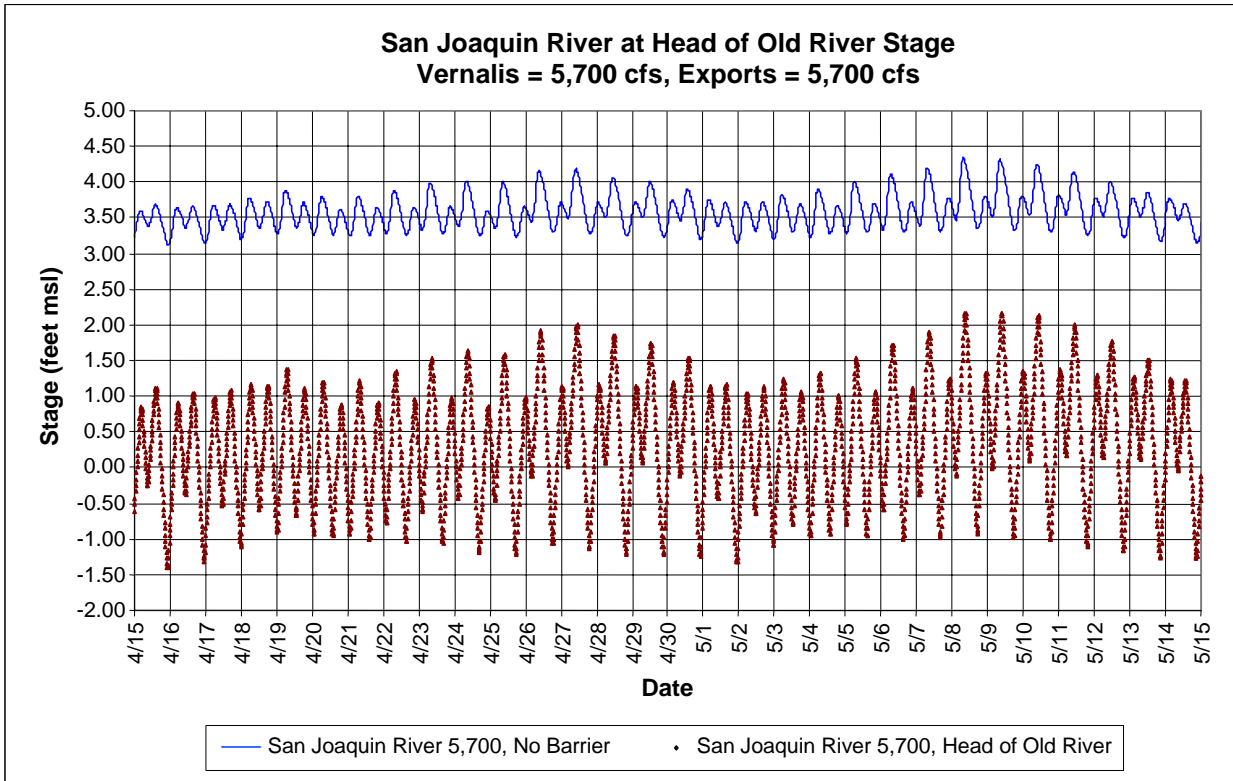
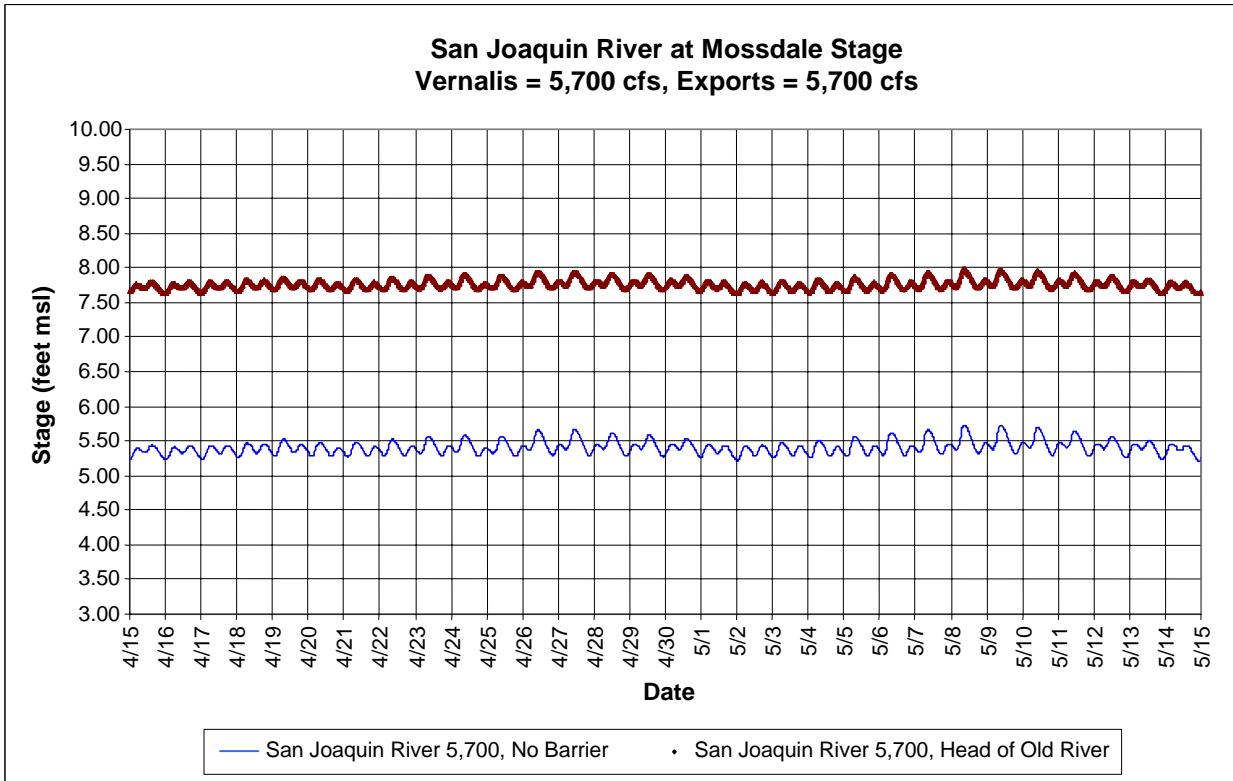
02053.02.101



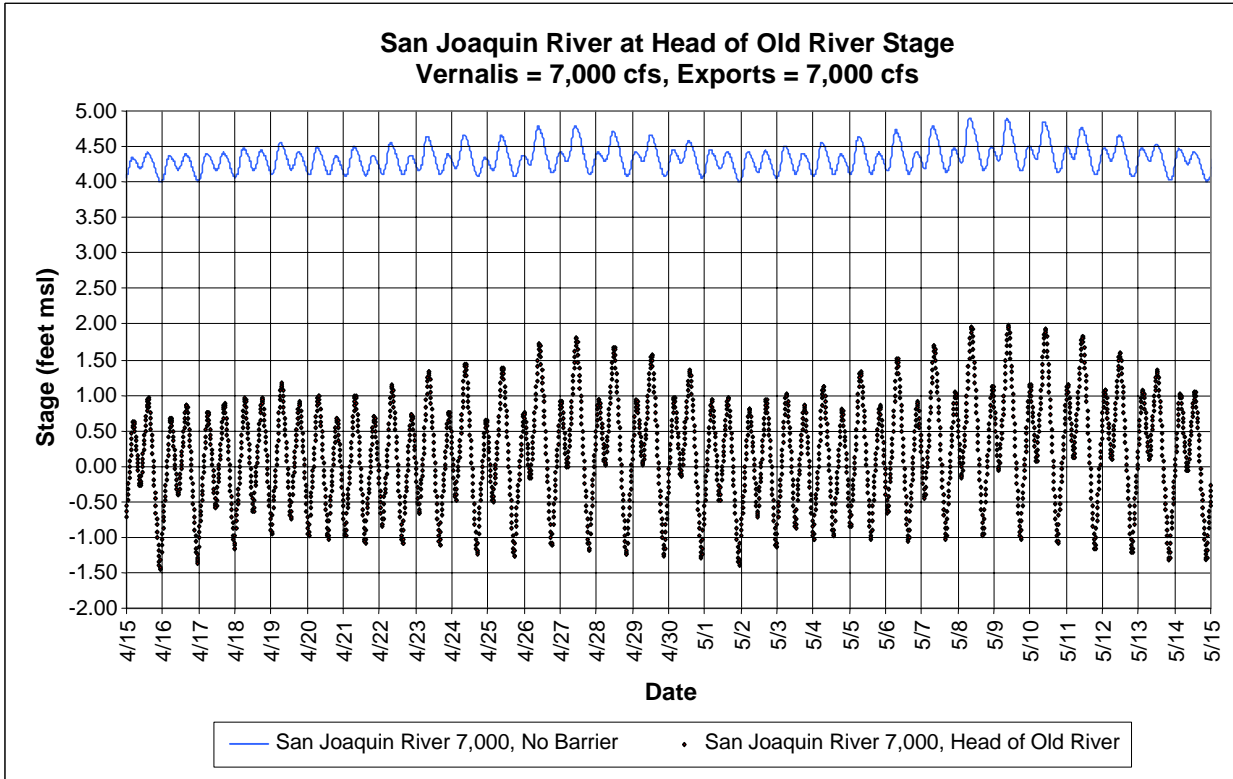
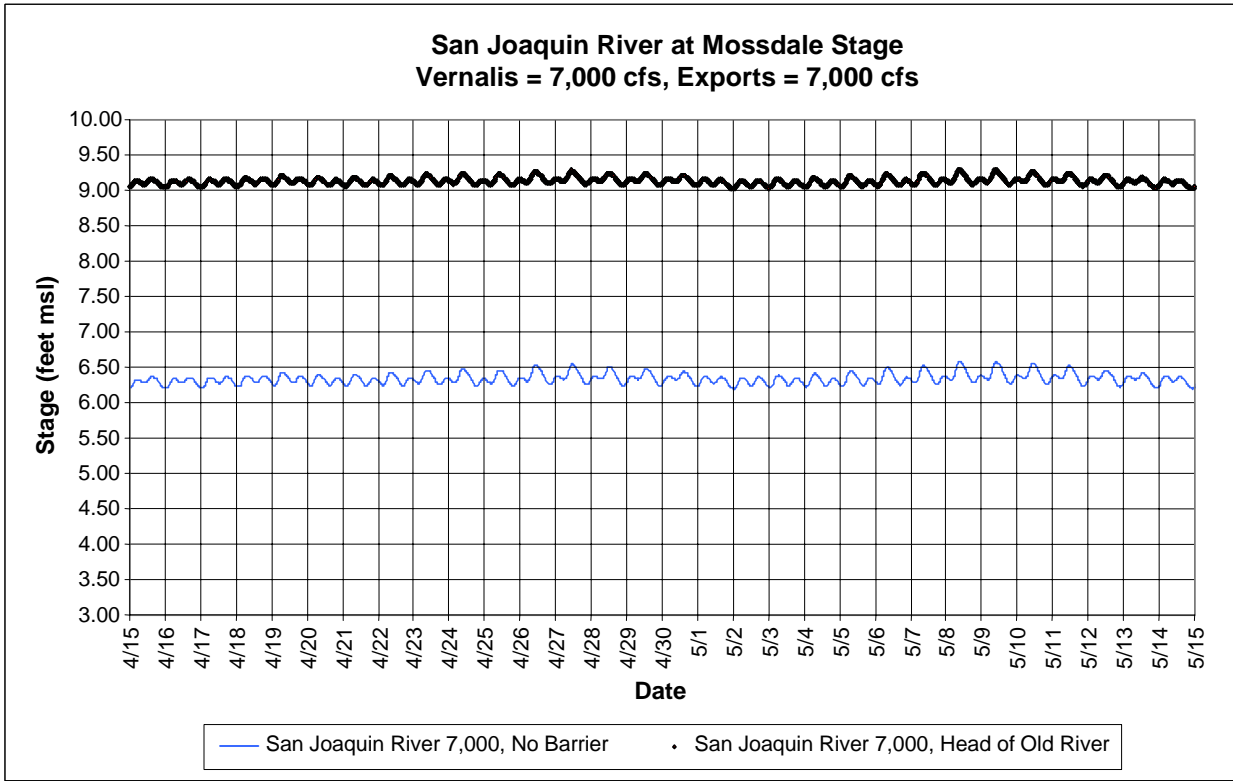
02053.02.101



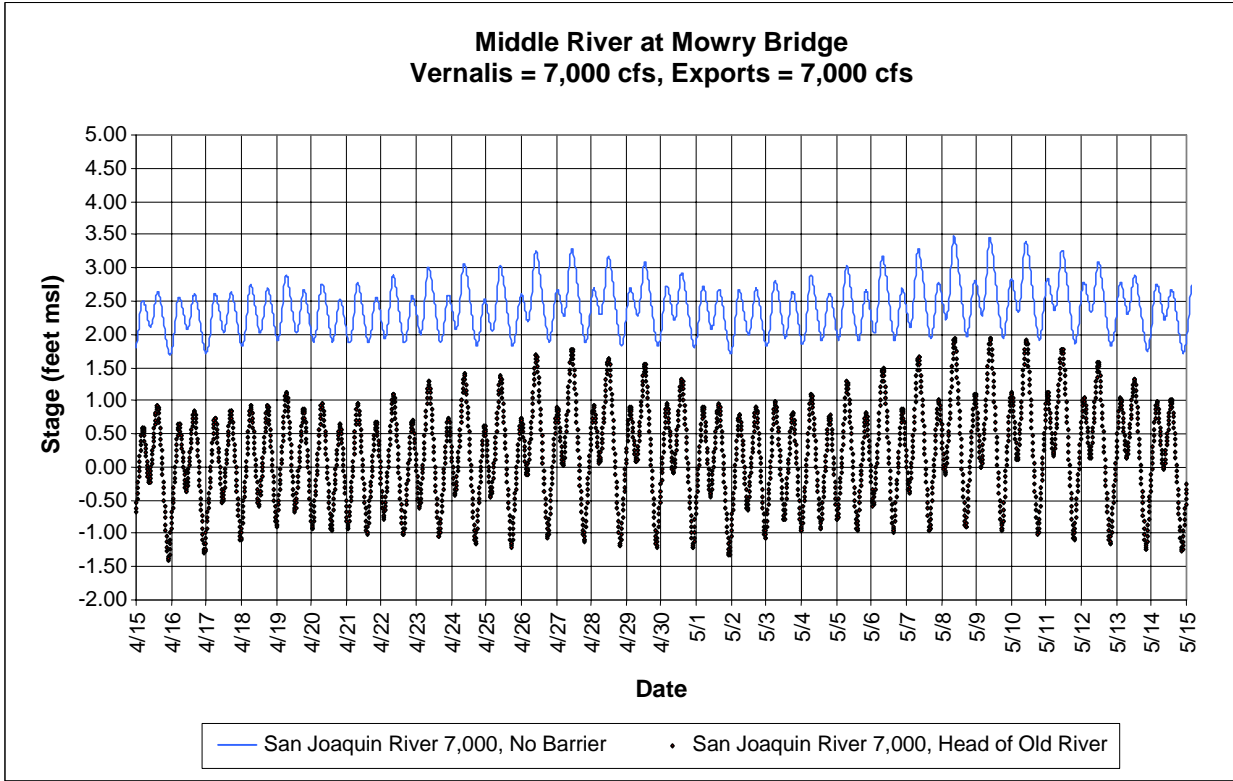
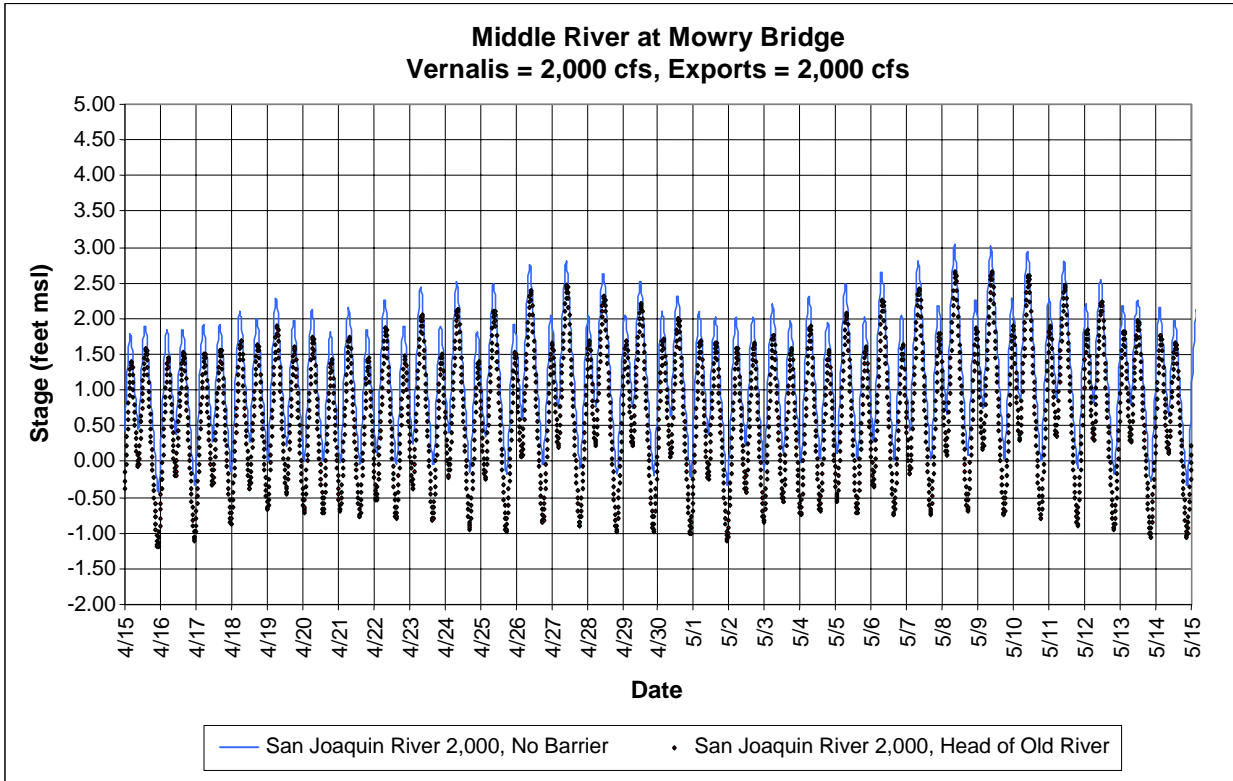
02053.02.101



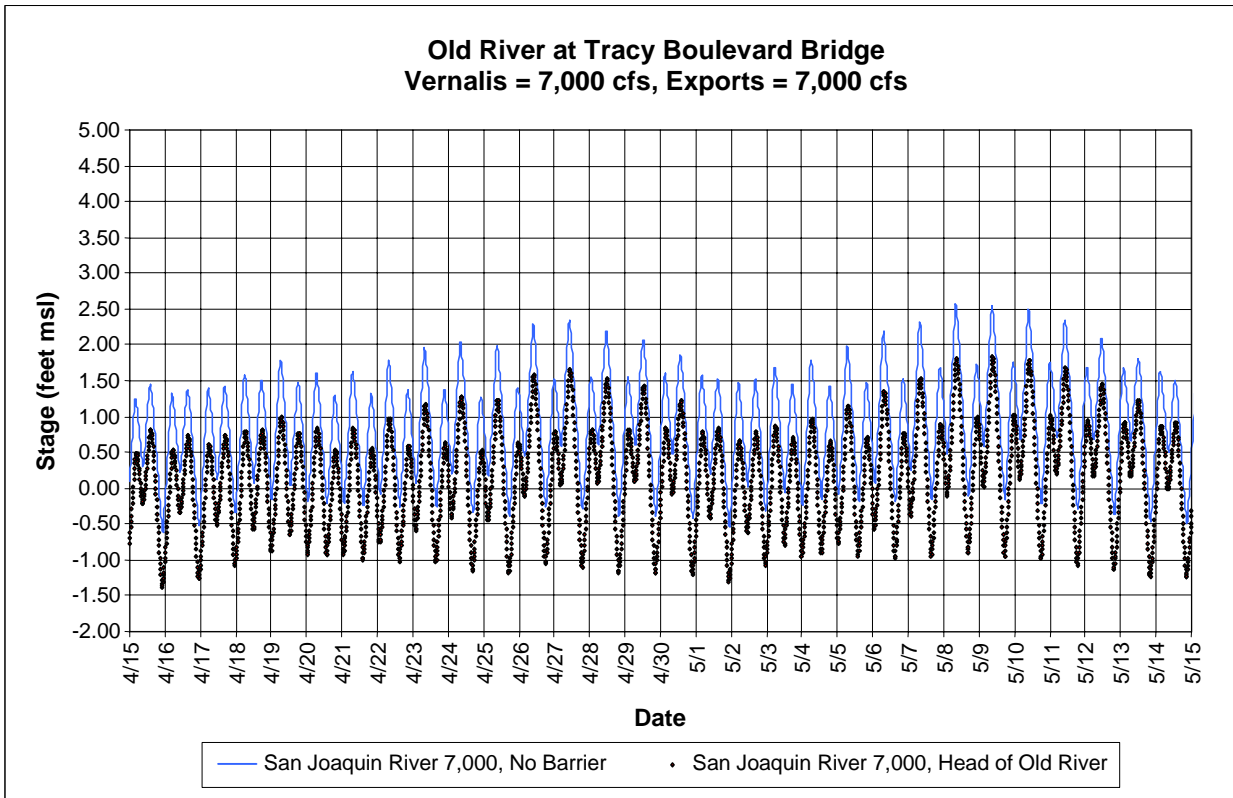
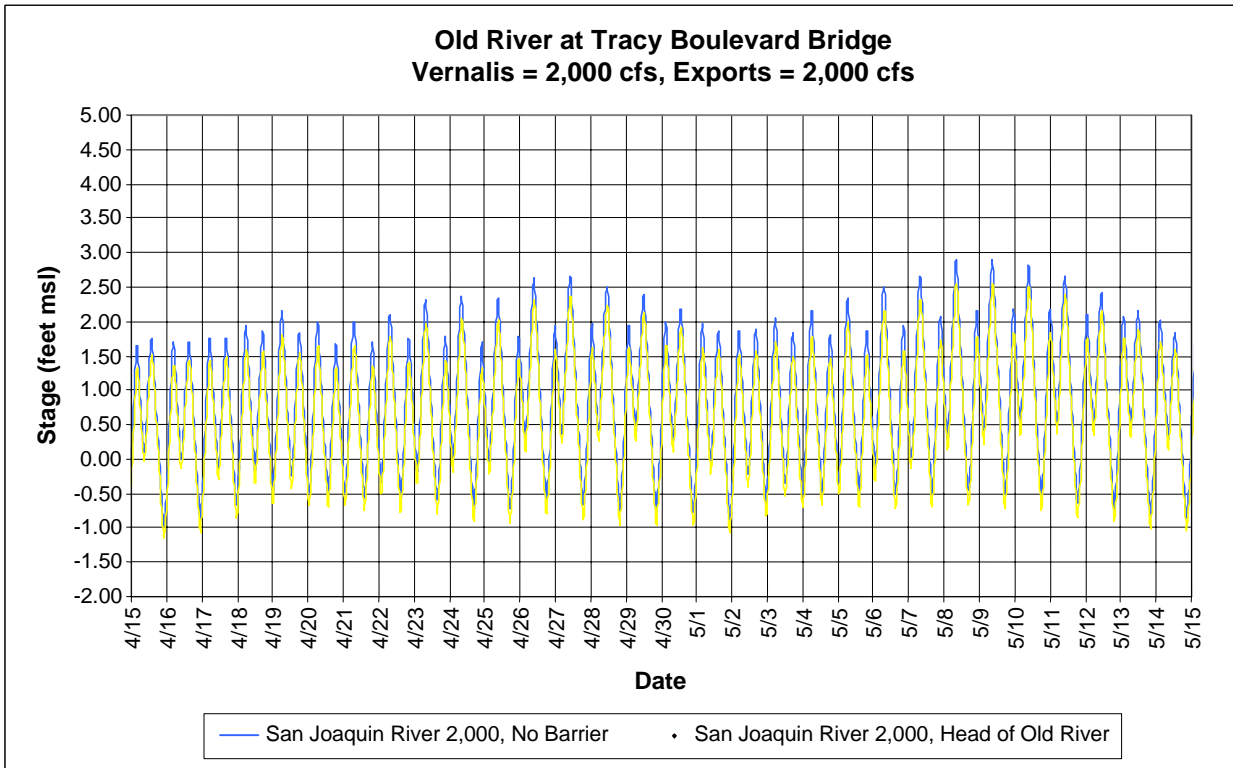
02053.02.101



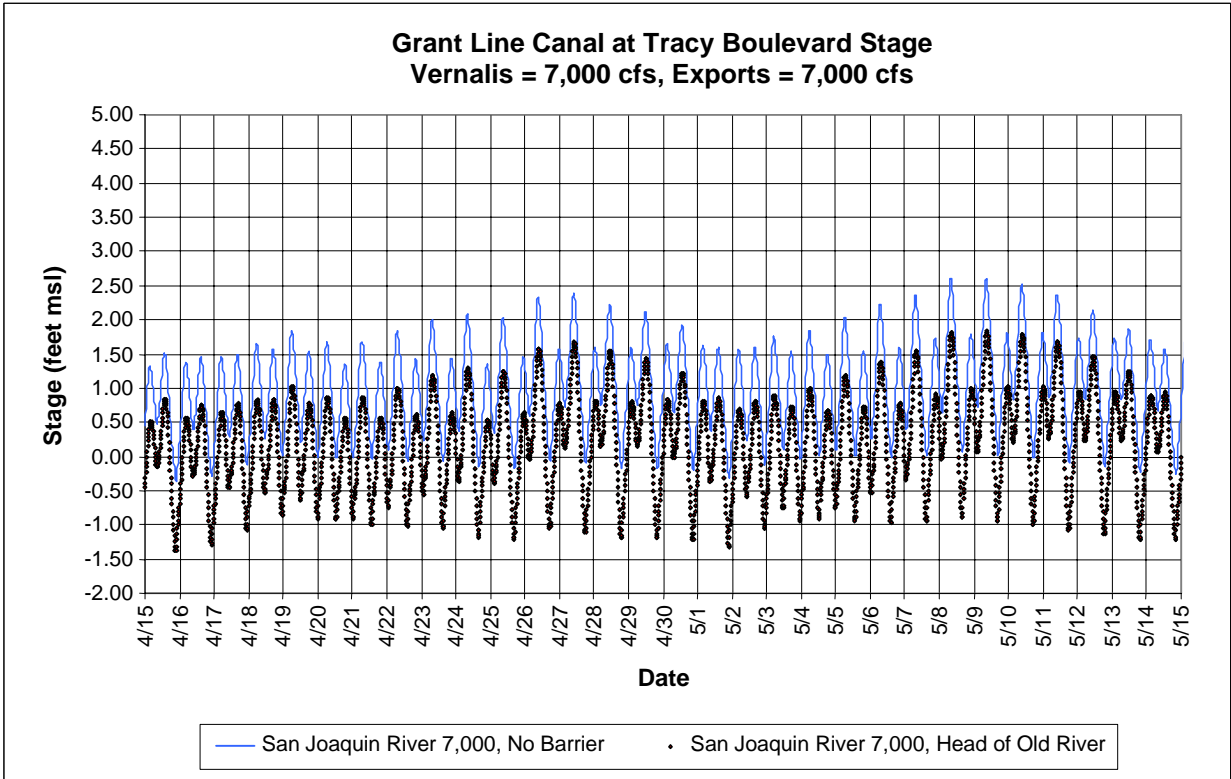
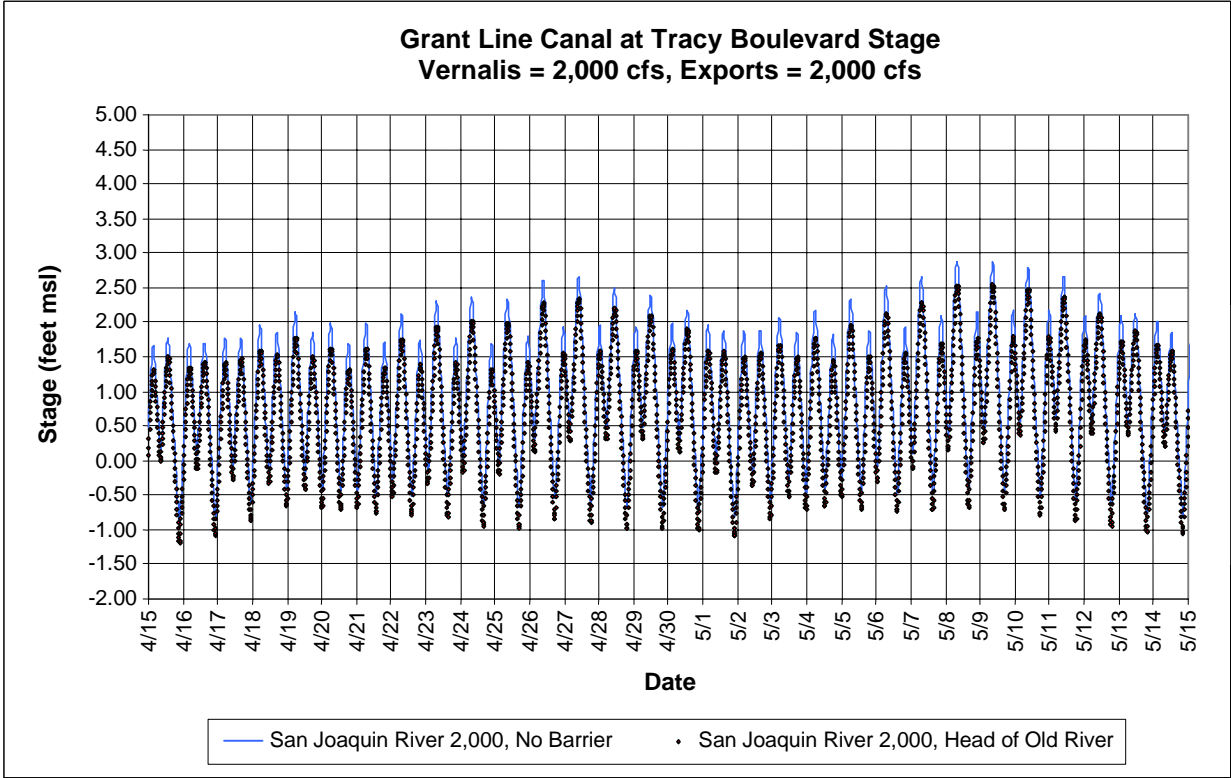
02053.02.101



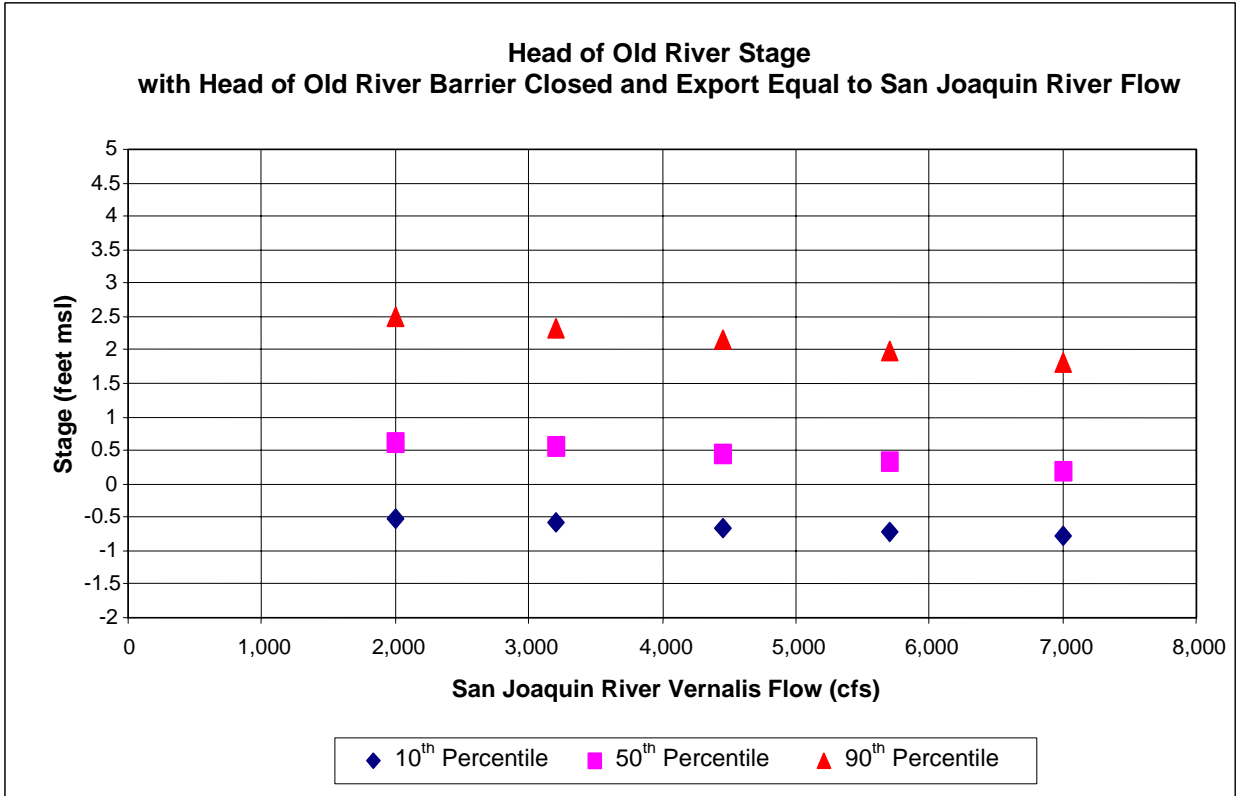
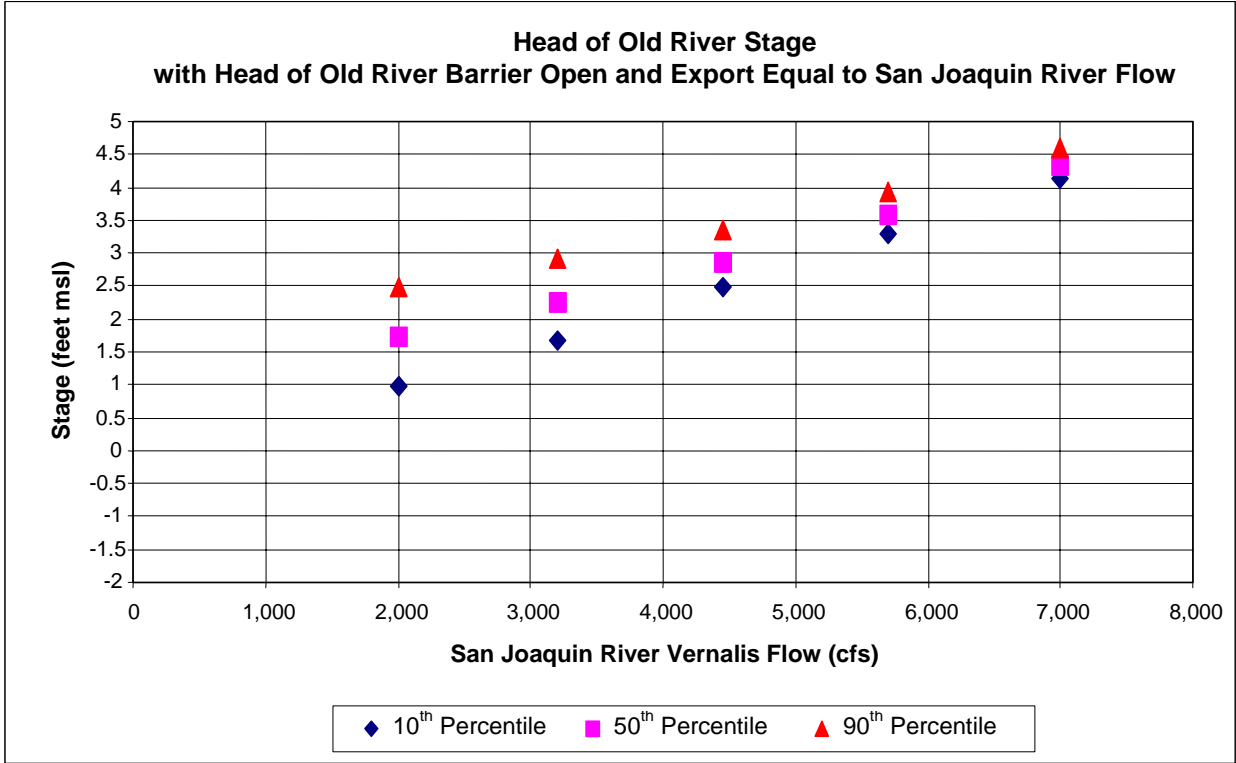
02053.02 101



02053.02 101



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

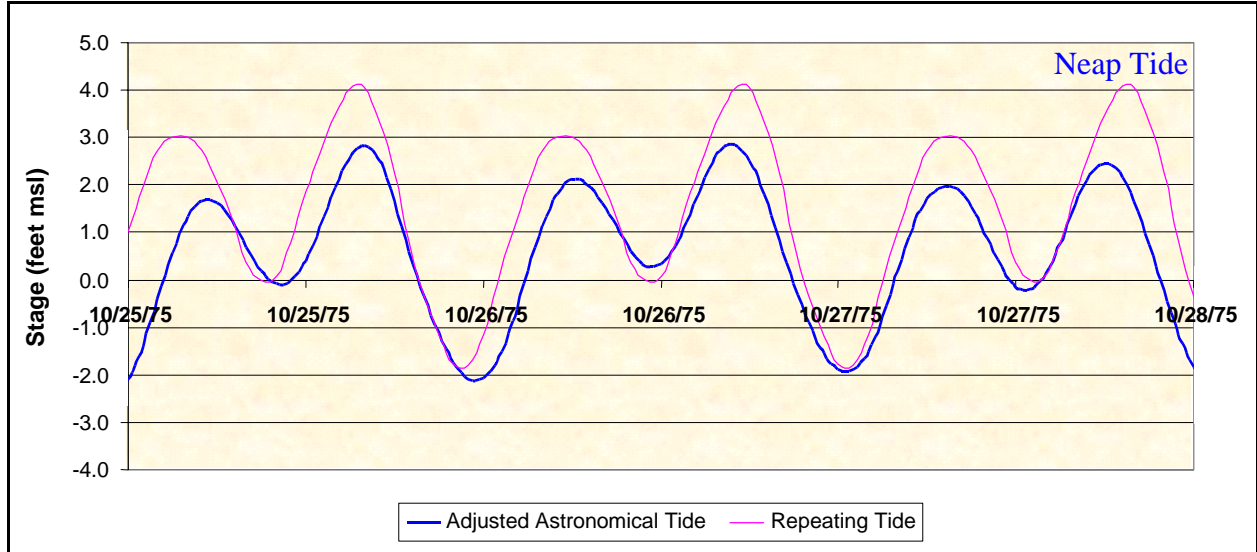


Figure D-119a. Three-Day Sequence of Adjusted Astronomical and 25-Hour-Repeating 19-Year Mean Tides

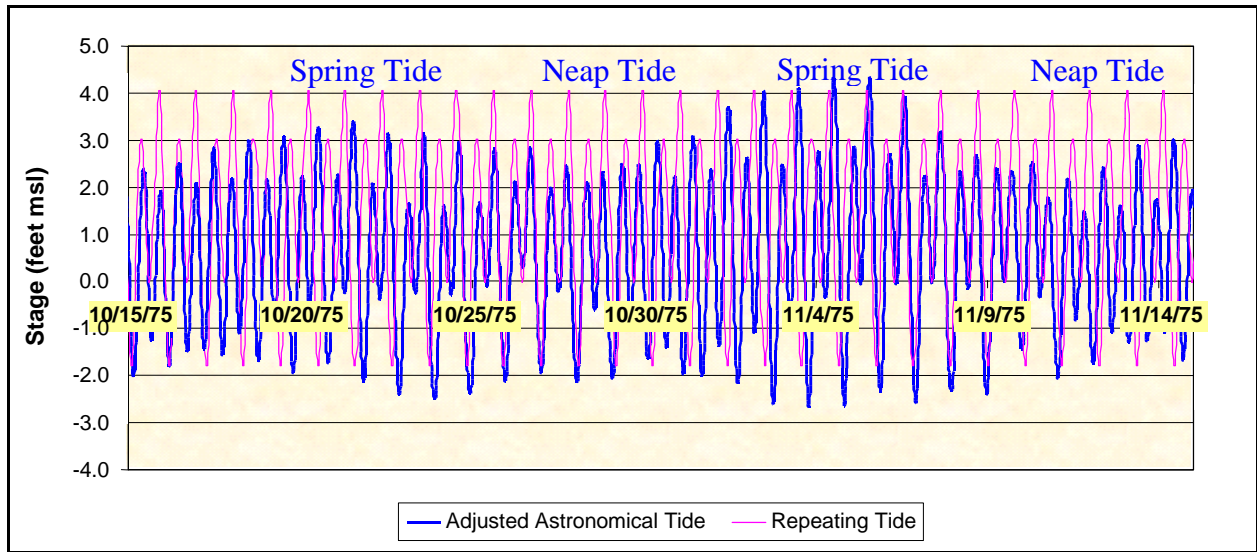
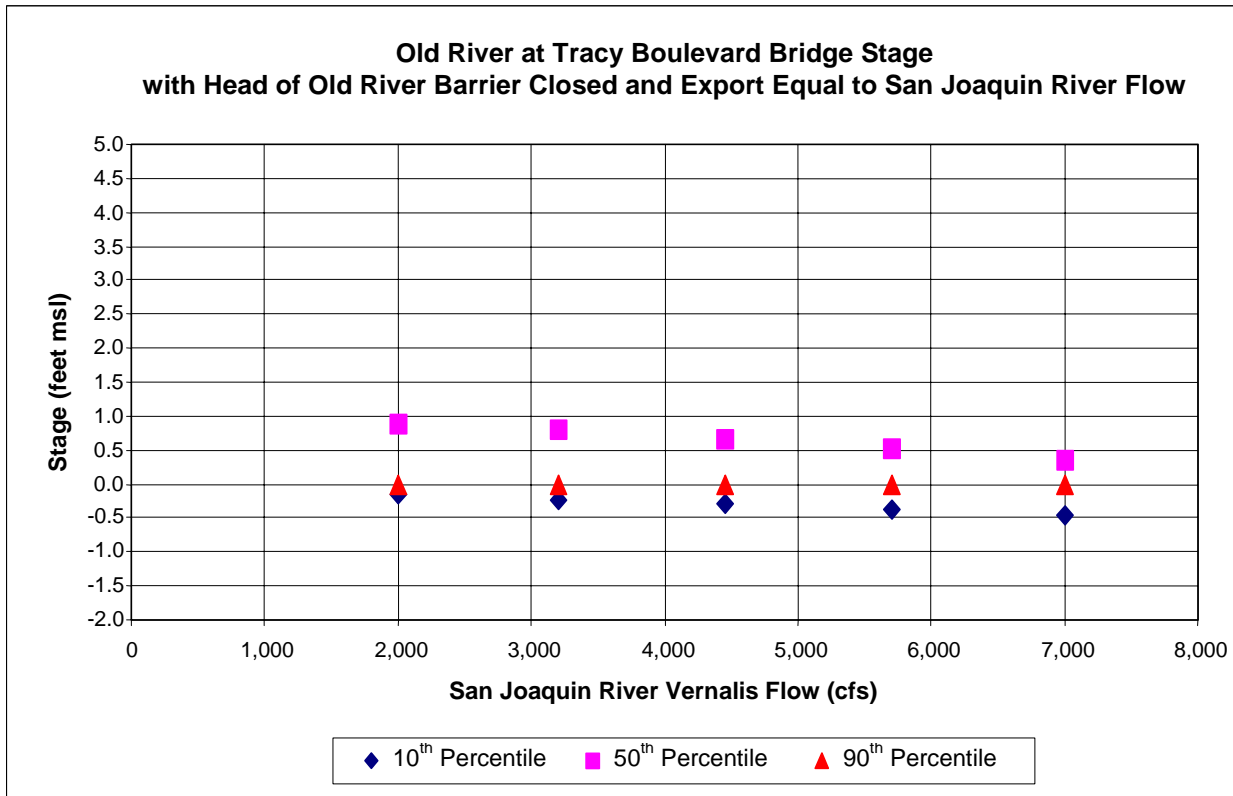
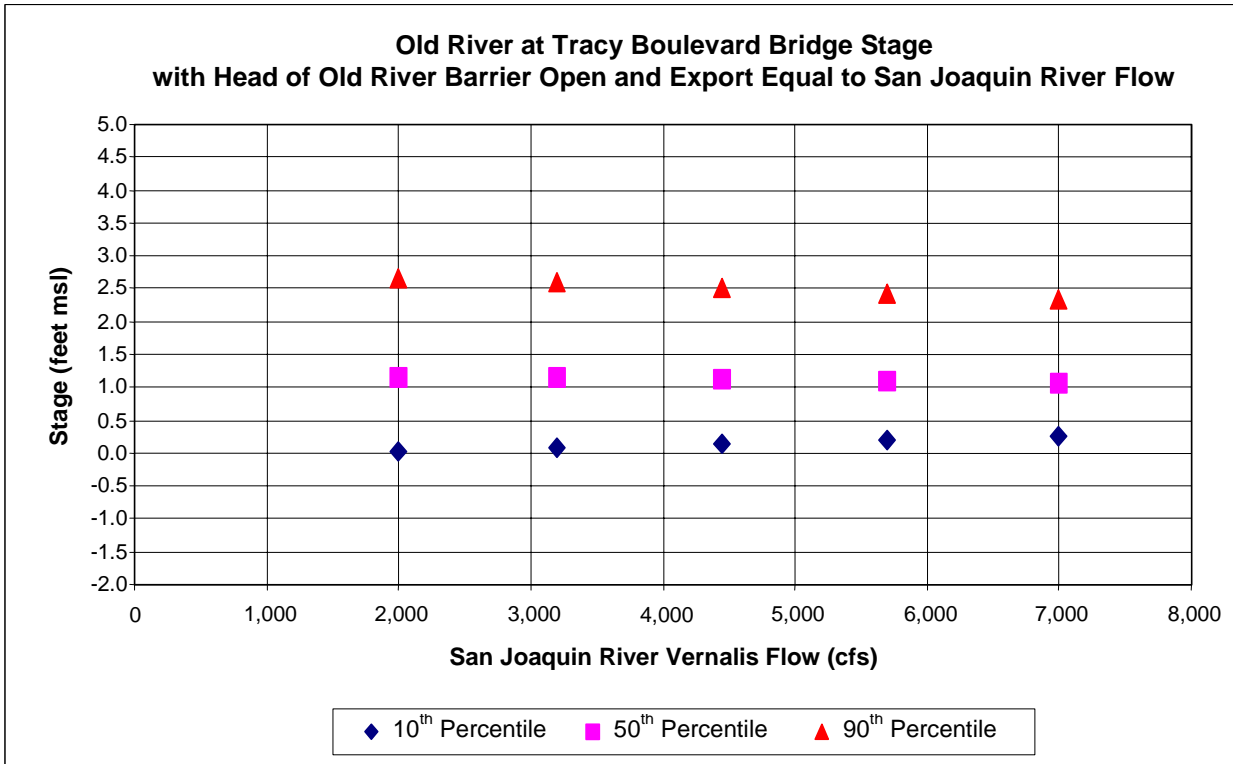
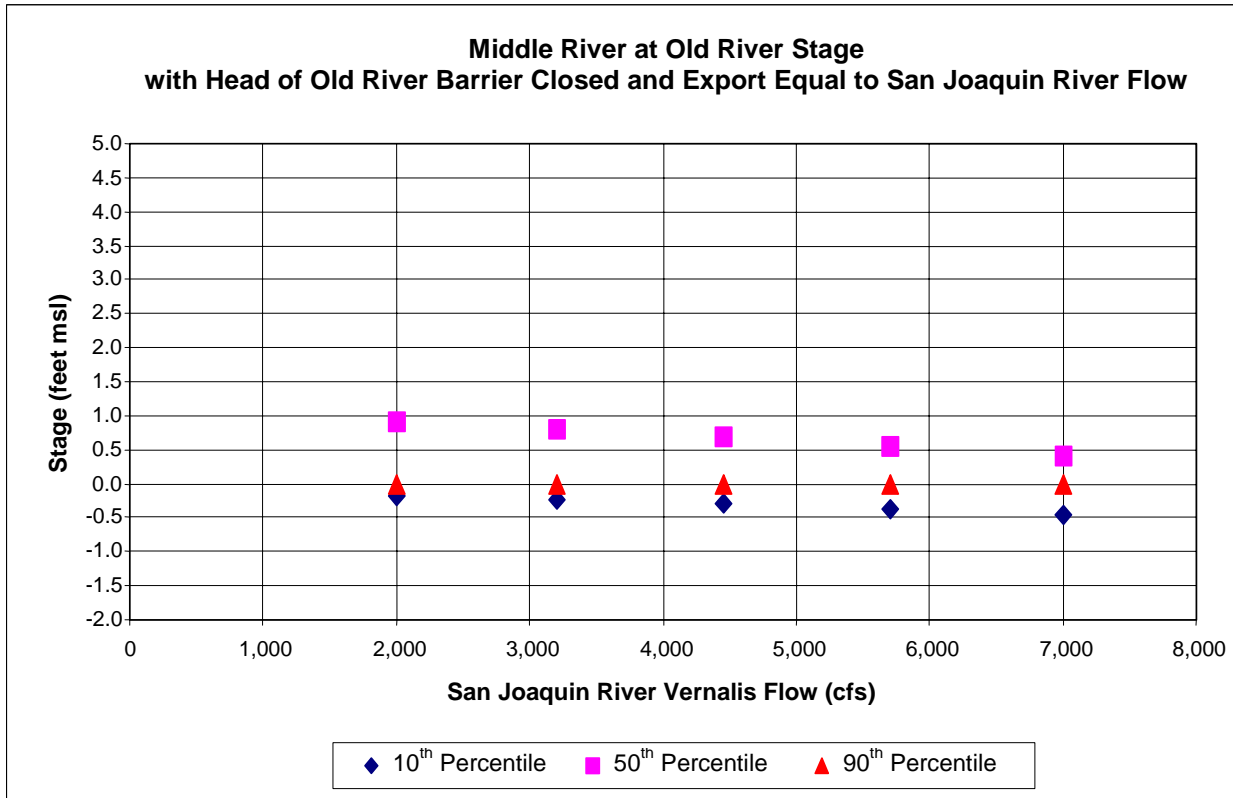
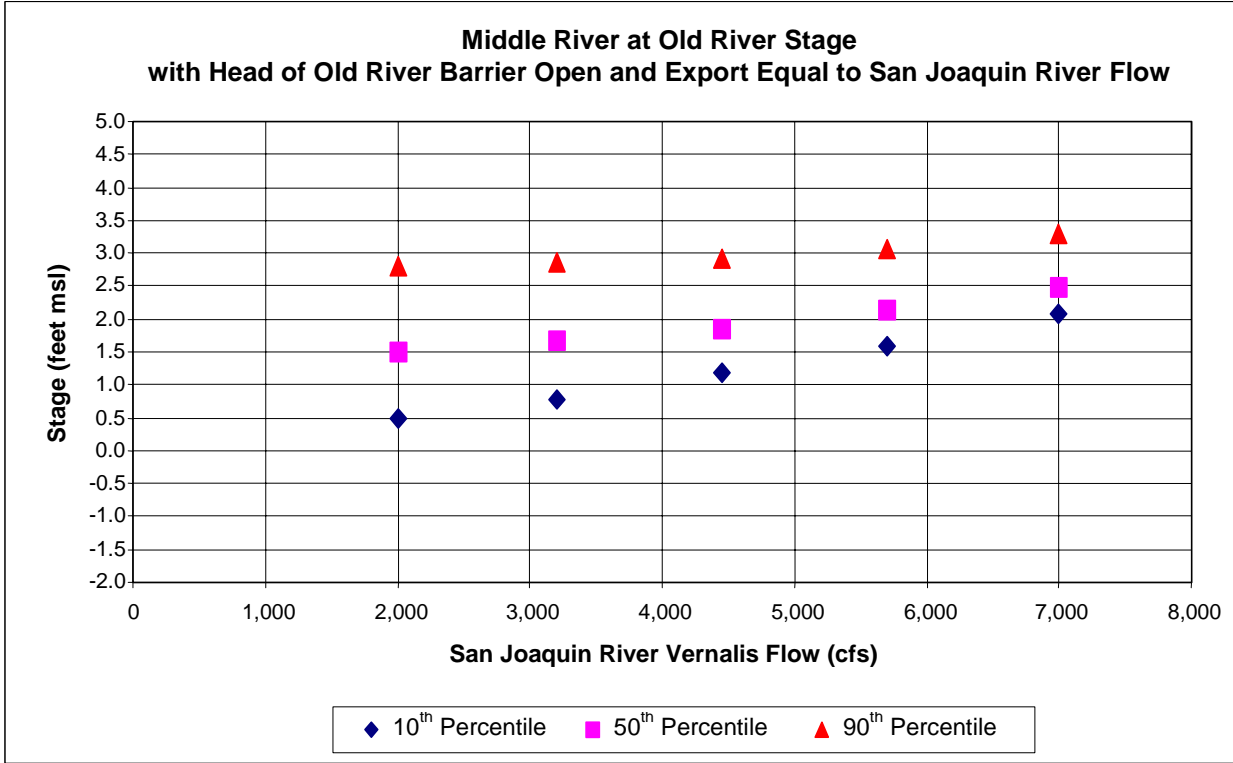


Figure D-119b. Two-Week Sequence of Adjusted Astronomical and 25-Hour-Repeating 19-Year Mean Tides

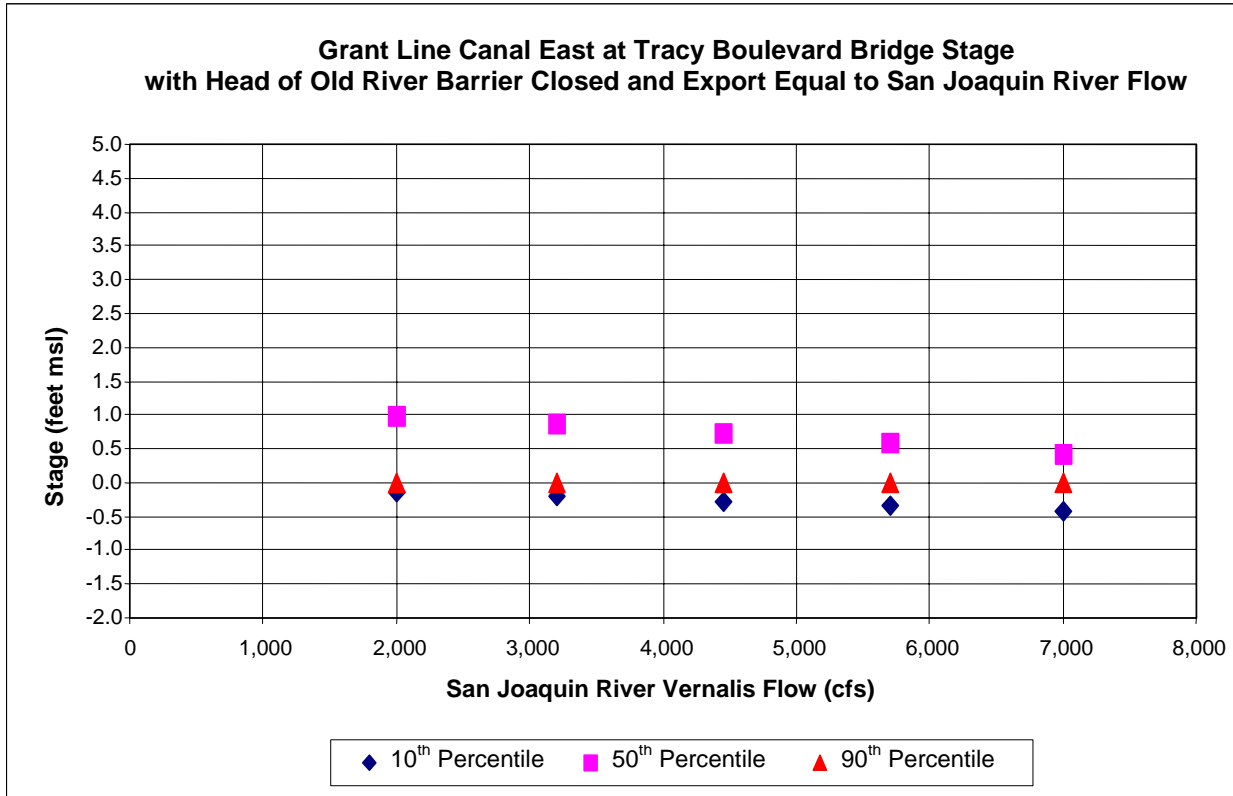
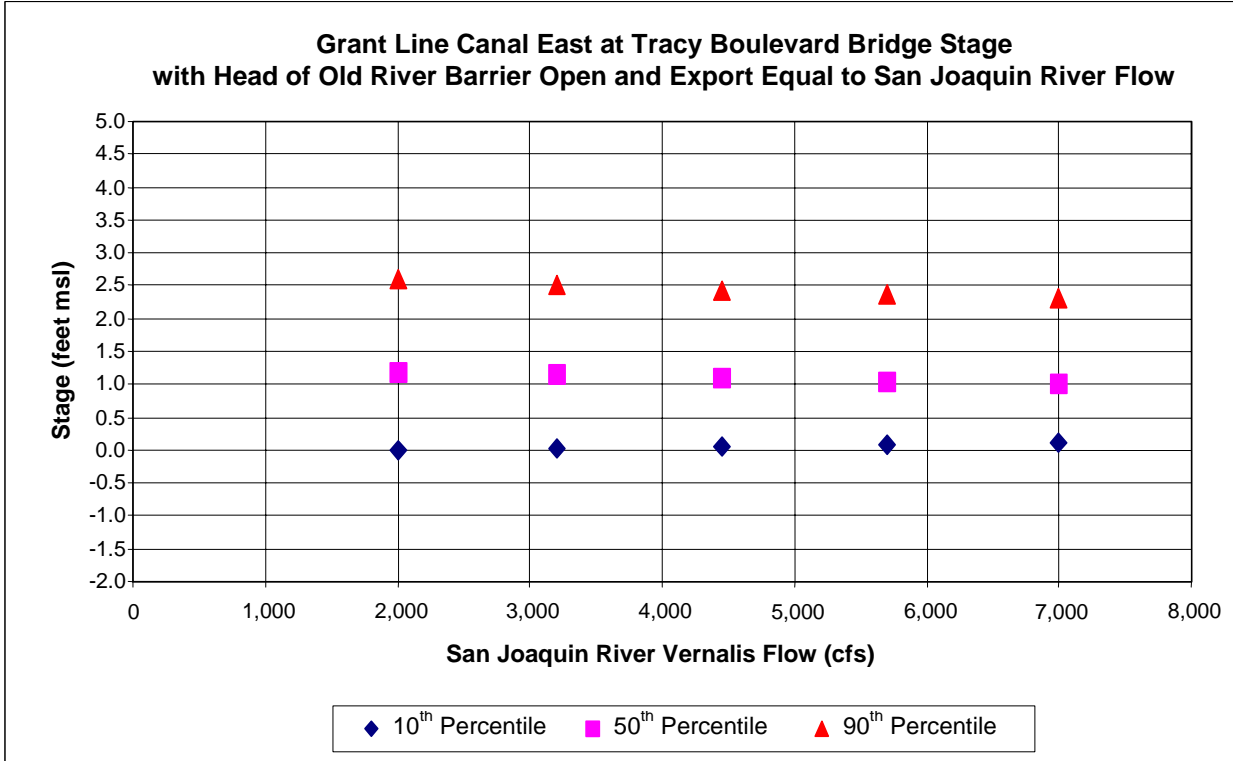


02053.02 101



02053.02 101

Figure D-117c
Simulated Water-Surface Elevation (Stage)
in Middle River at Old River with Various VAMP Flows



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

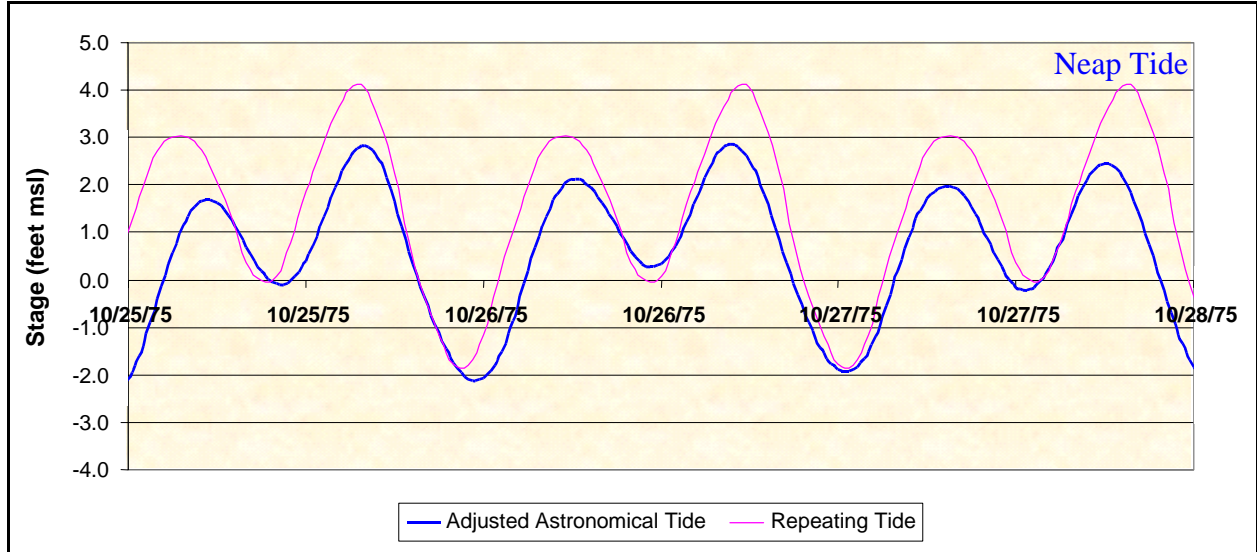


Figure D-119a. Three-Day Sequence of Adjusted Astronomical and 25-Hour-Repeating 19-Year Mean Tides

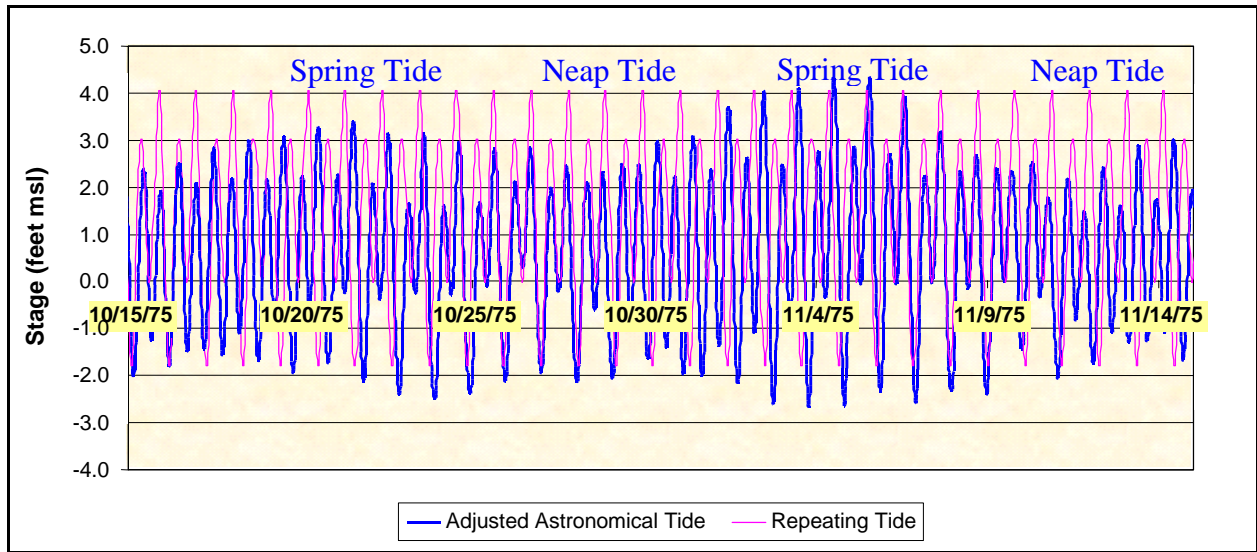


Figure D-119b. Two-Week Sequence of Adjusted Astronomical and 25-Hour-Repeating 19-Year Mean Tides

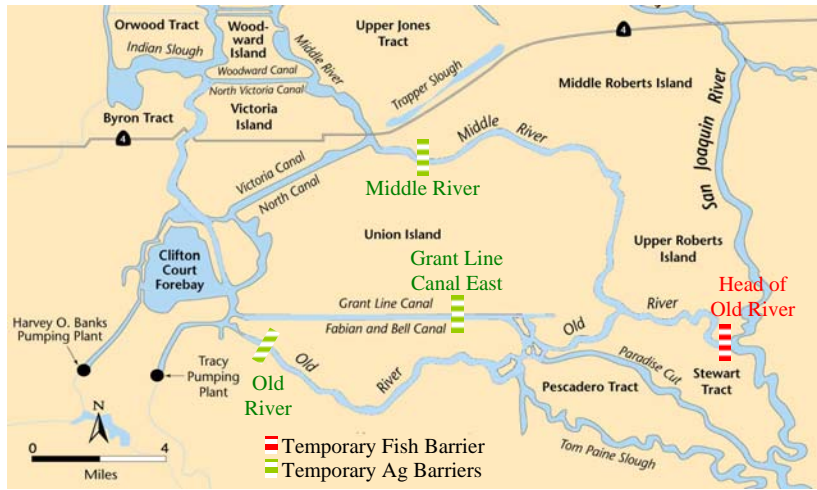


Figure D-120a. Temporary Barriers: One Fish and Two Agricultural Barriers

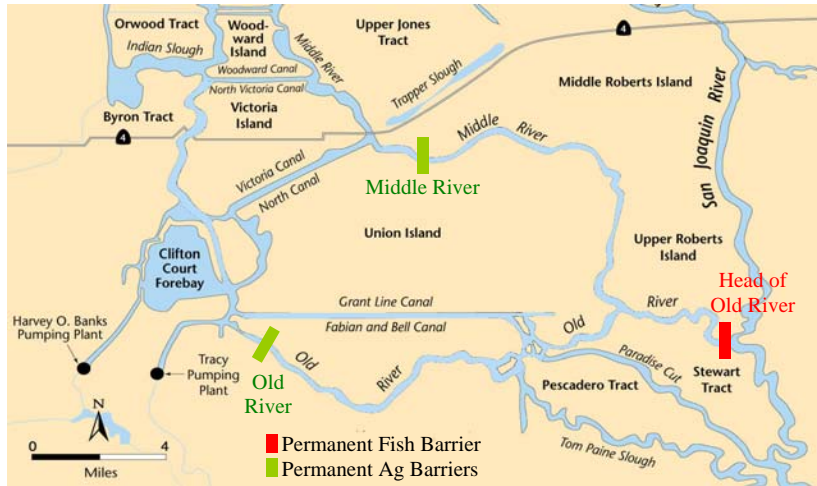


Figure D-210b. Permanent Barriers: One Fish and Two Agricultural Barriers

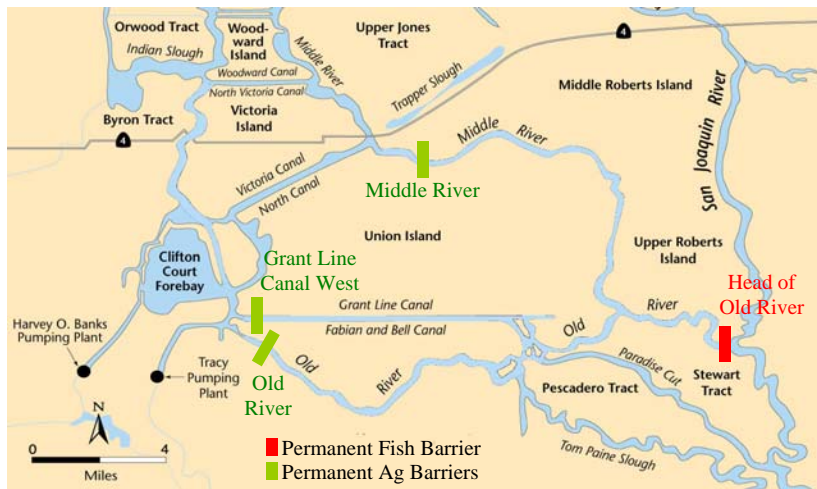
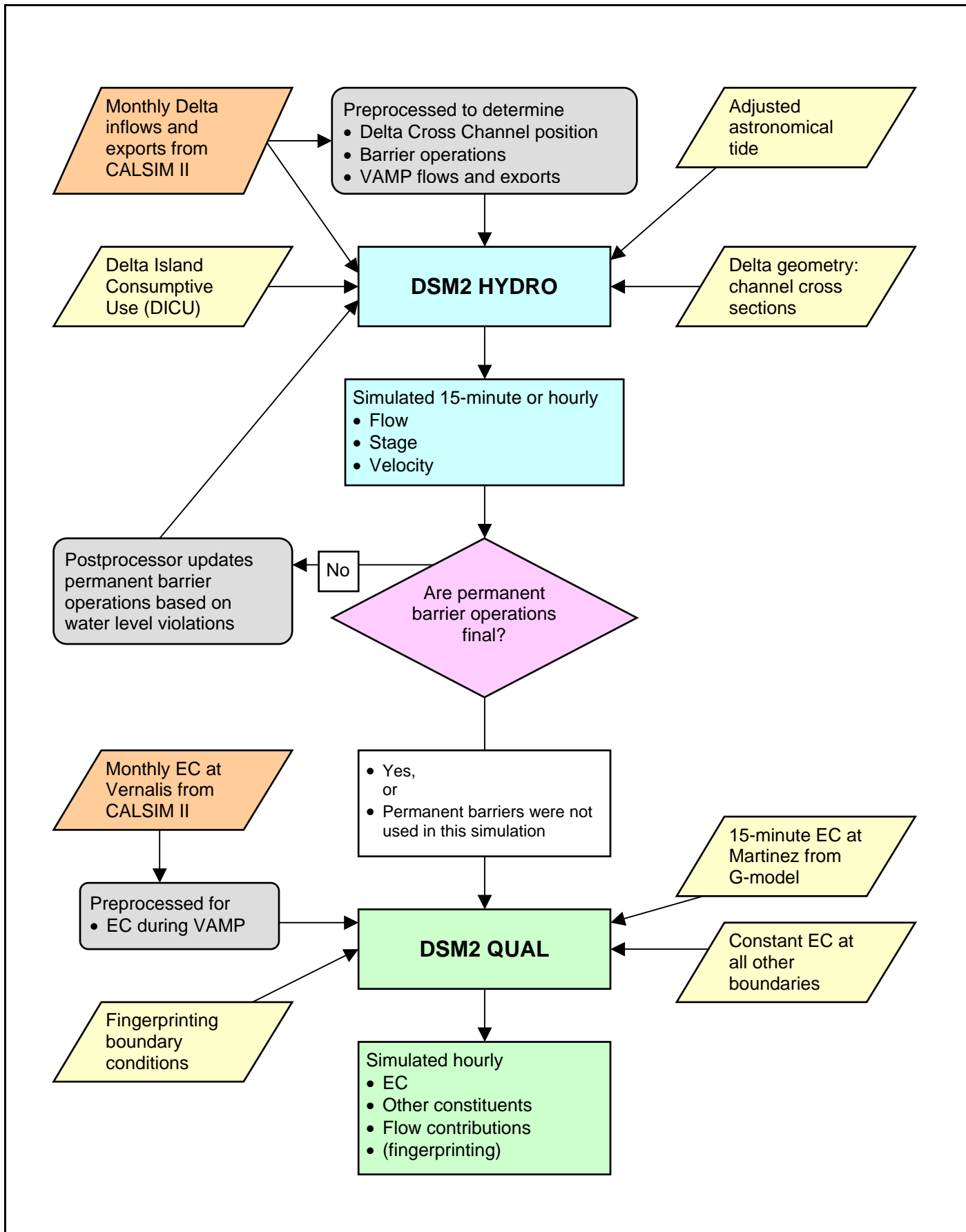
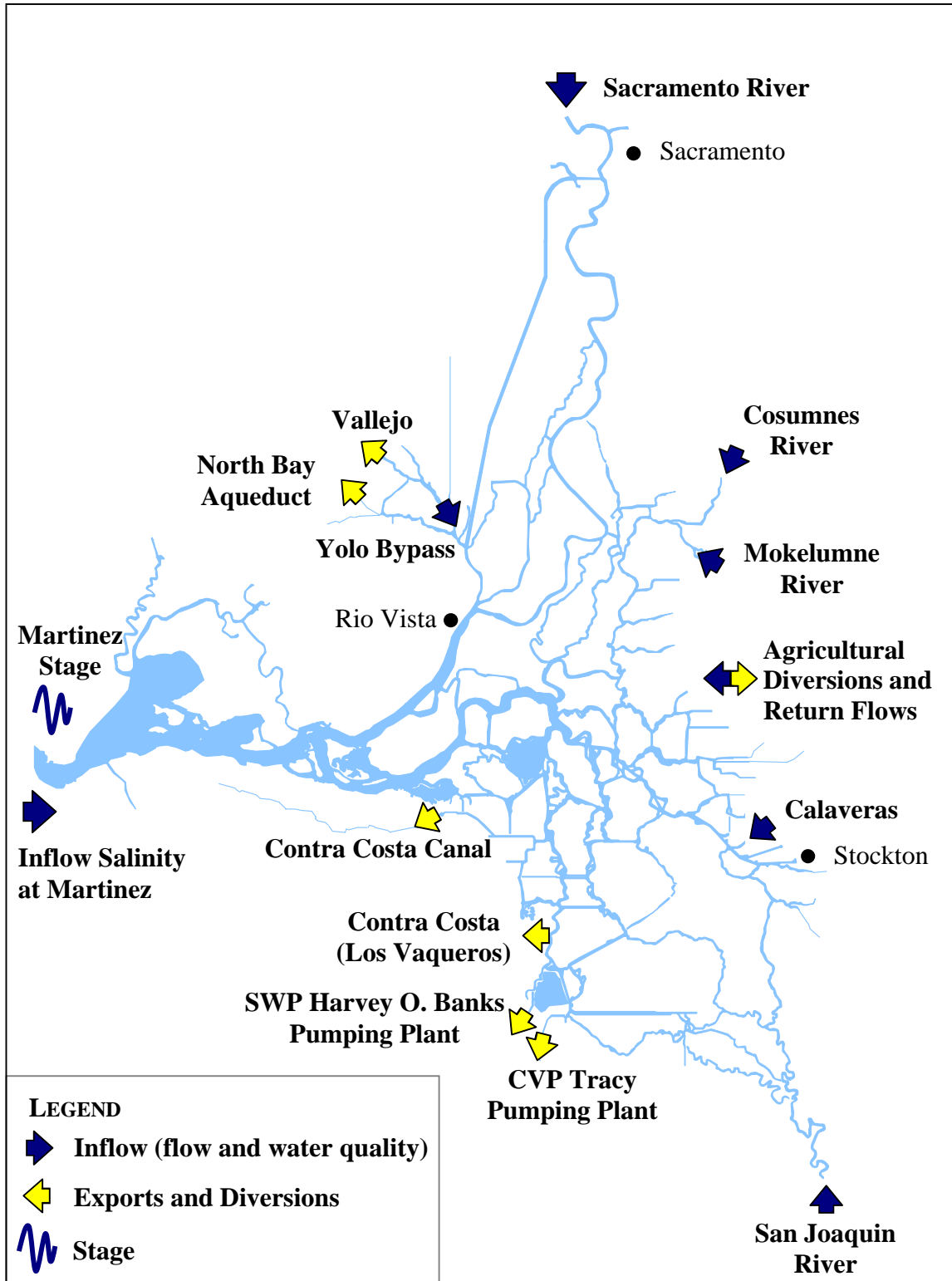


Figure D-120c. Permanent Barriers: One Fish and Three Agricultural Barriers

02053.02.101



02053.02.101



Project Number

Figure D-122
DSM2 Hydrodynamic and
Water Quality Boundary Conditions

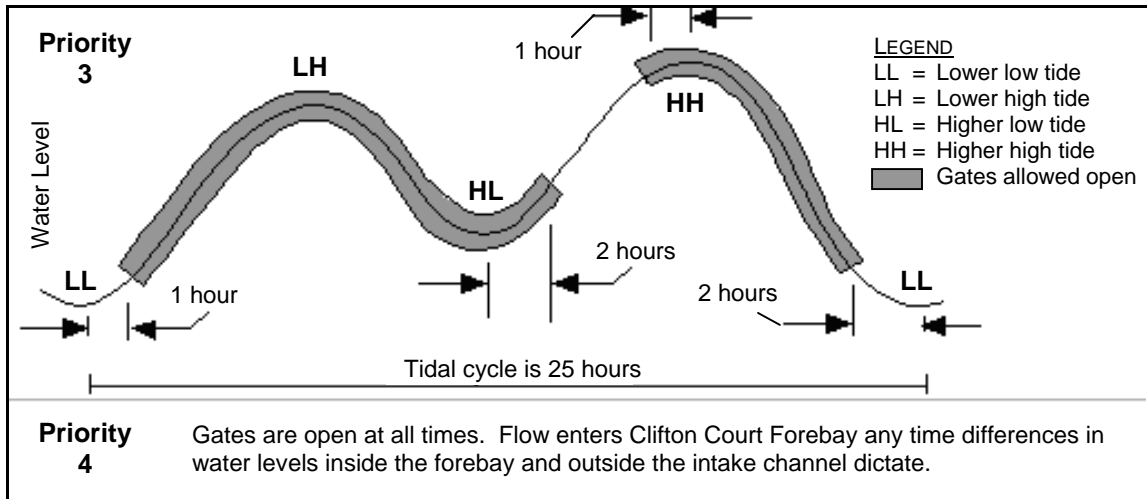


Figure D-123. Clifton Court Forebay Gate Operating Priorities in DSM2

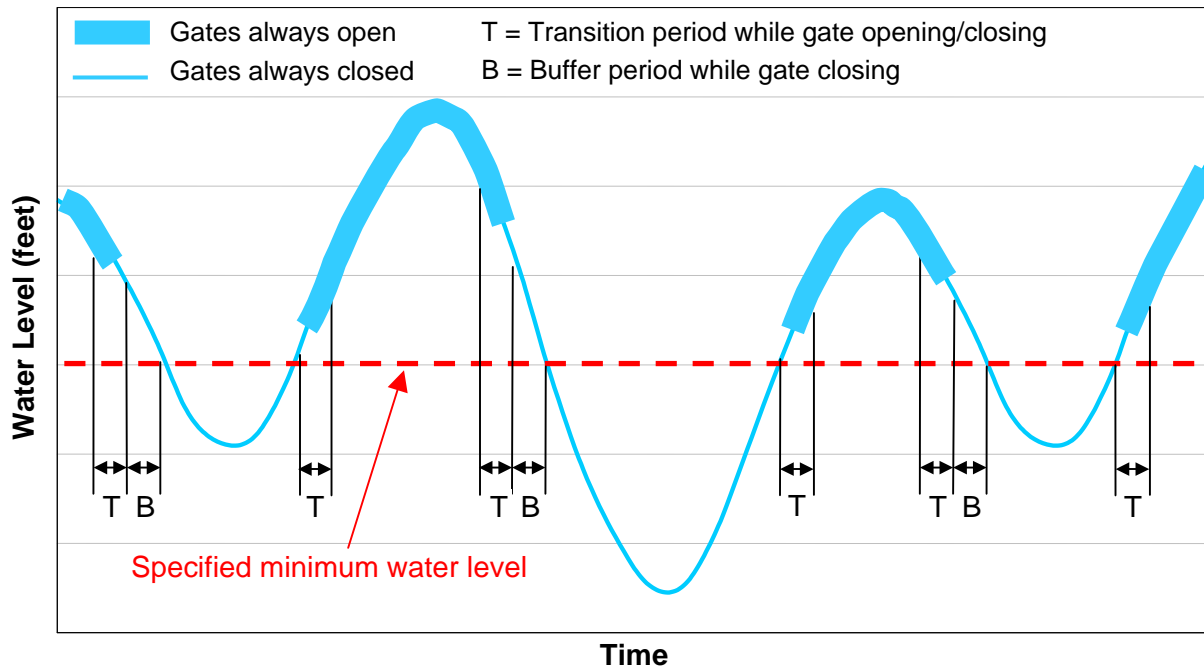
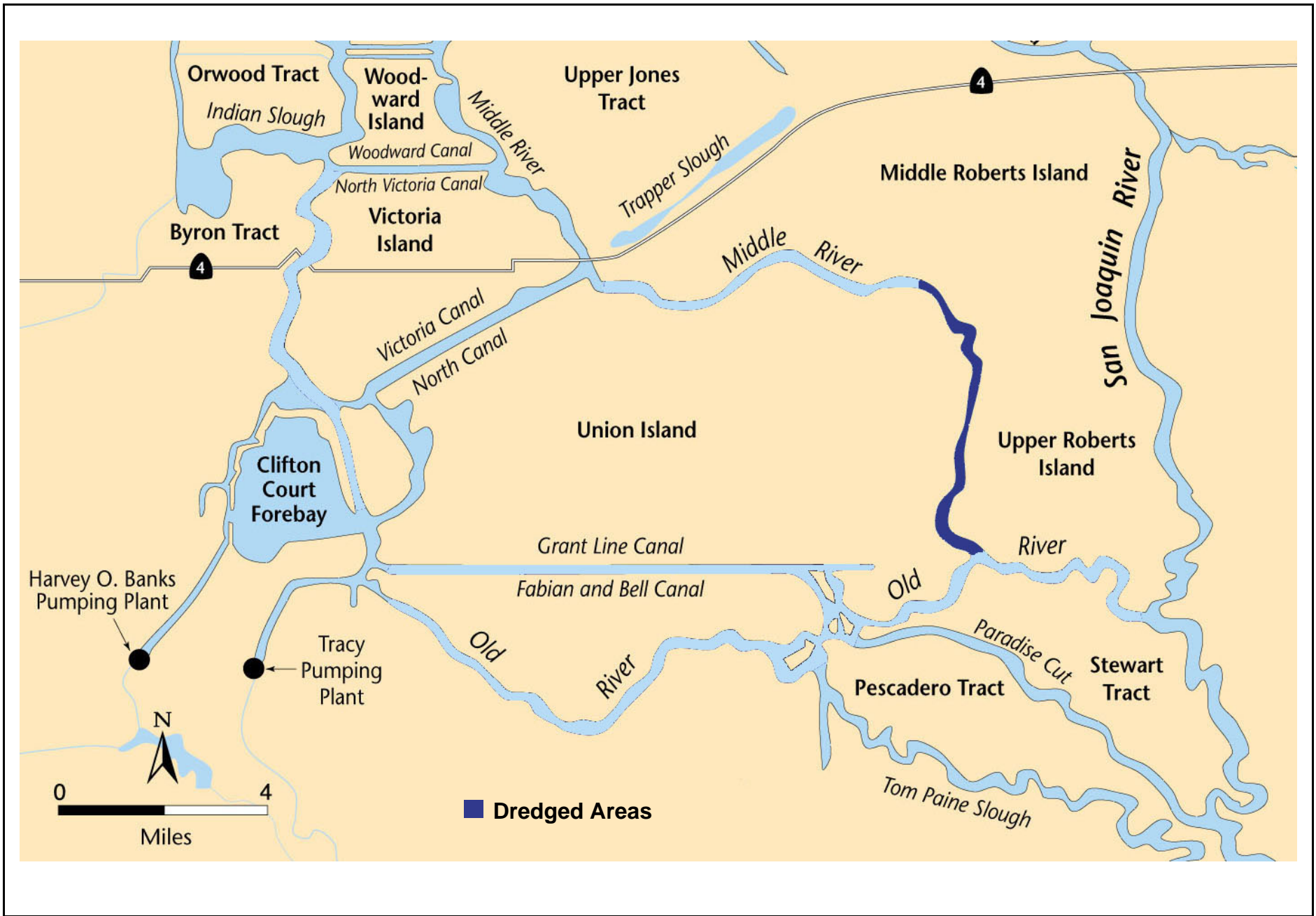


Figure D-124. Conceptualization of Permanent Barrier Operations



02053.02.101

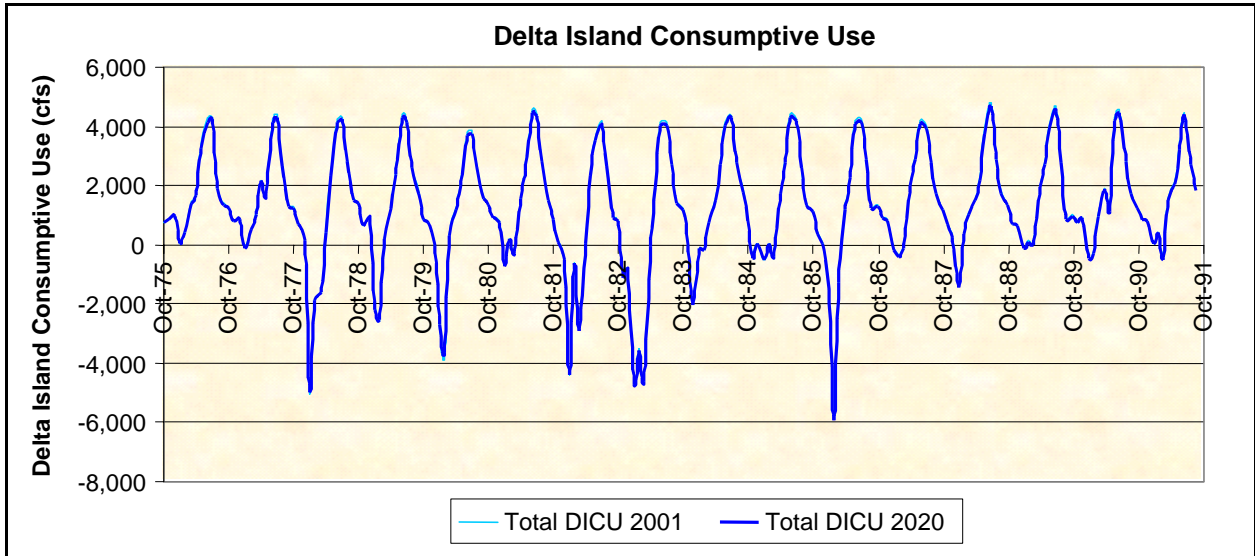


Figure D-126. Delta Island Consumptive Use for the DSM2 16-Year Planning Studies

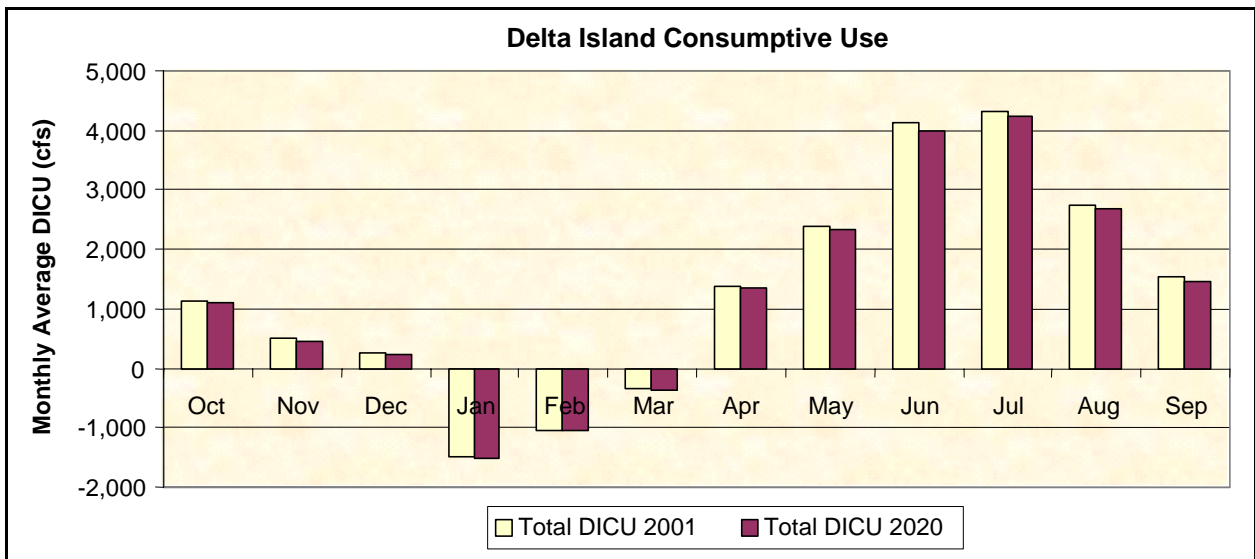


Figure D-127. Monthly Average Delta Island Consumptive Use for the DSM2 16-Year Planning Studies

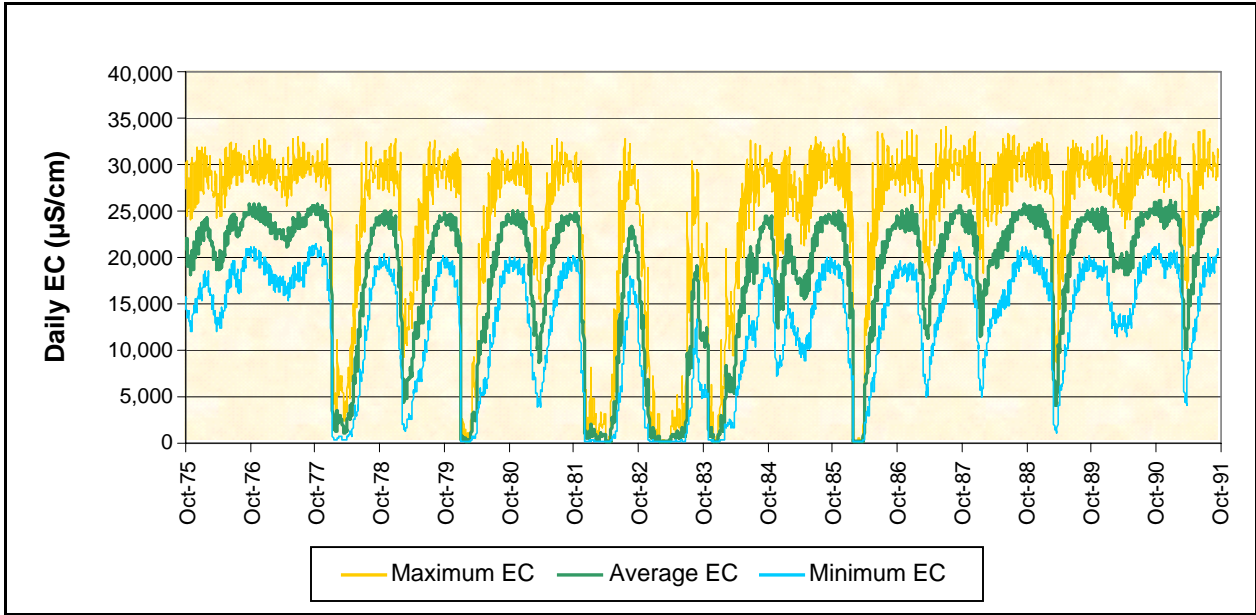


Figure D-128. Martinez Electrical Conductivity (EC) from G-model for 2020 Baseline Conditions with Temporary Barriers

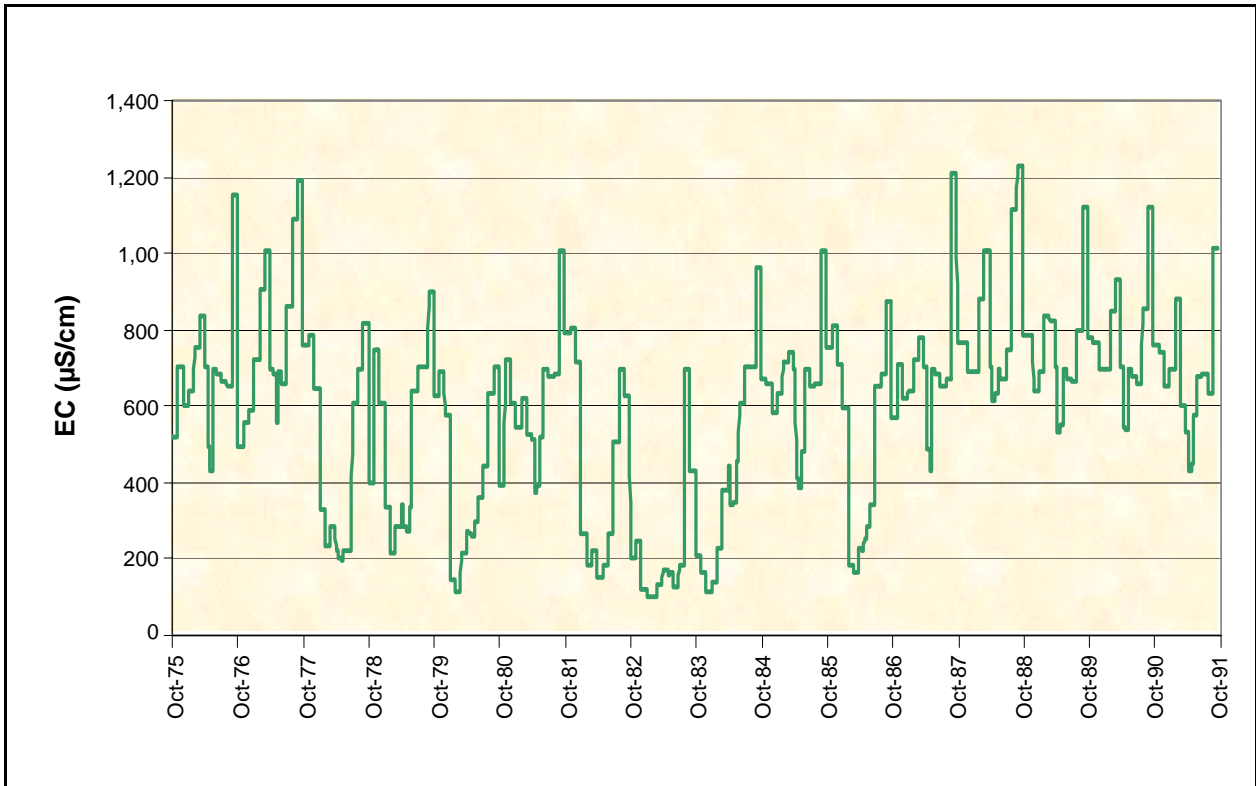


Figure D-129. Vernalis Electrical Conductivity (EC) from CALSIM II for 2020 Baseline Conditions with Temporary Barriers

Project Number

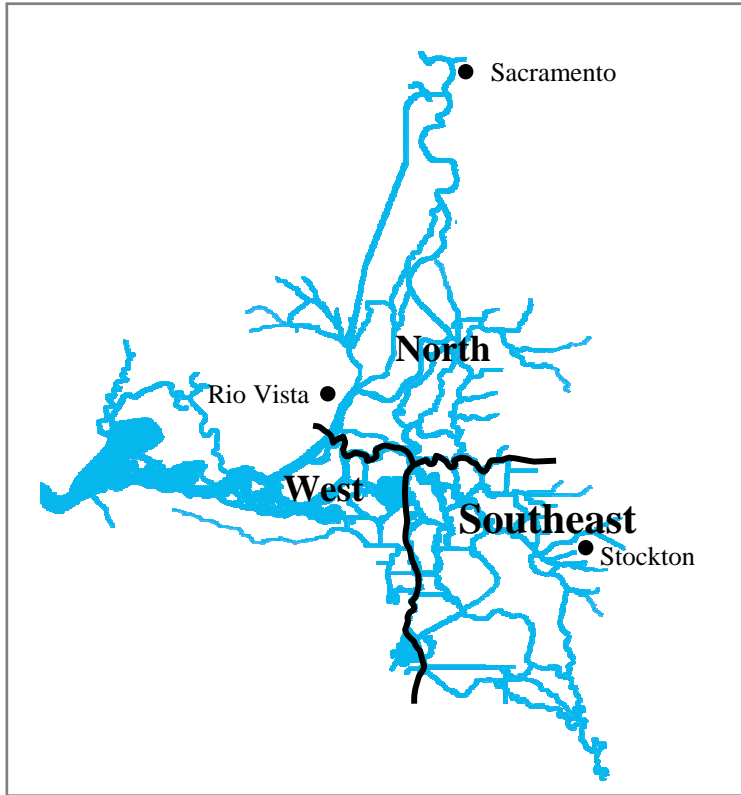


Figure D-130. Delta Regions for Drainage and Return Flow Electrical Conductivity

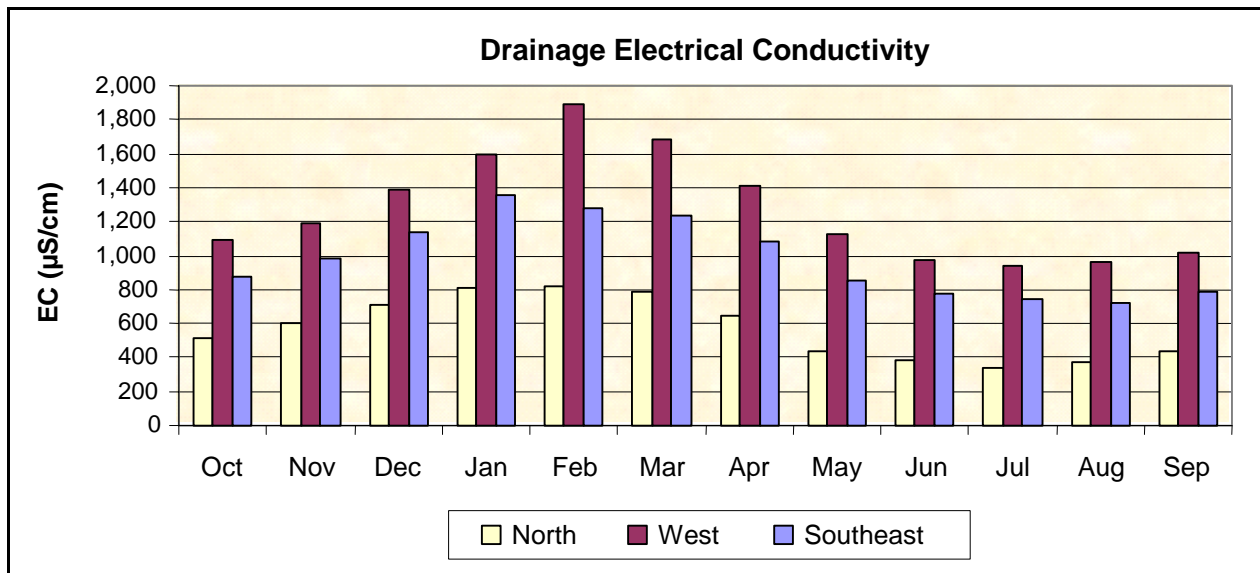
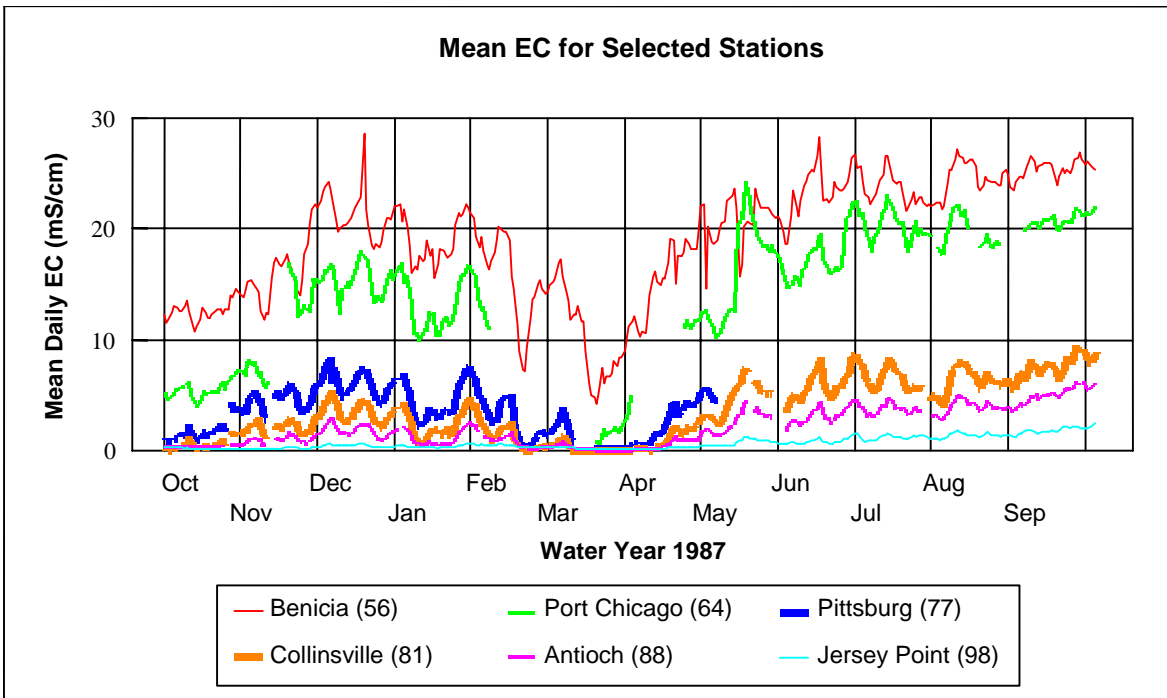
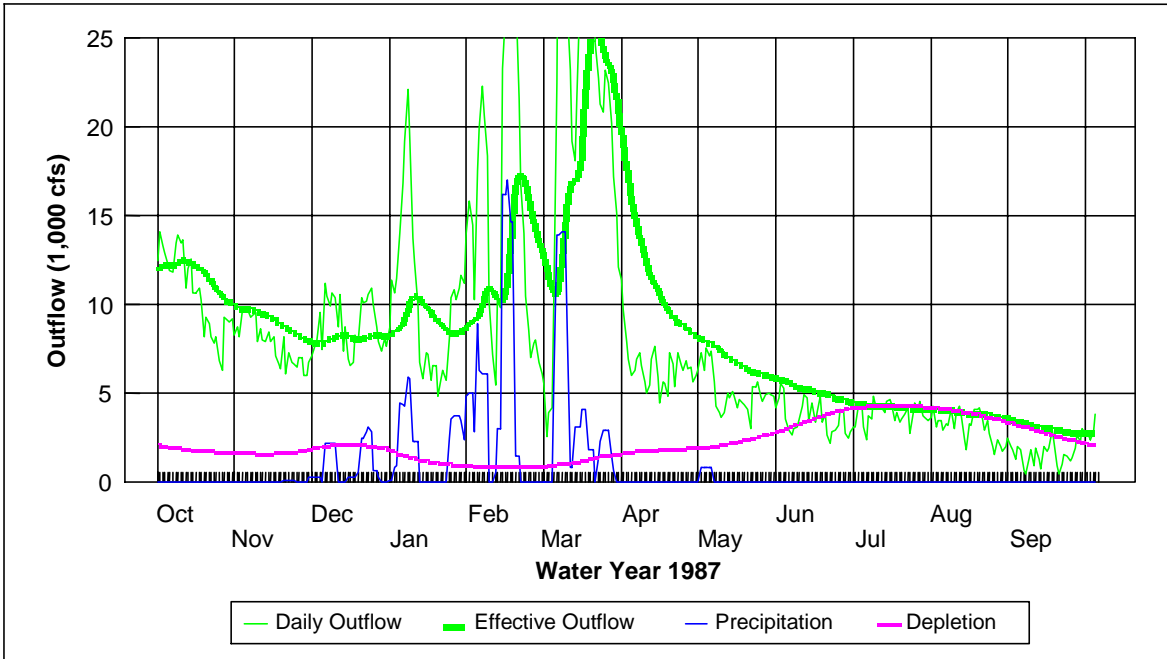
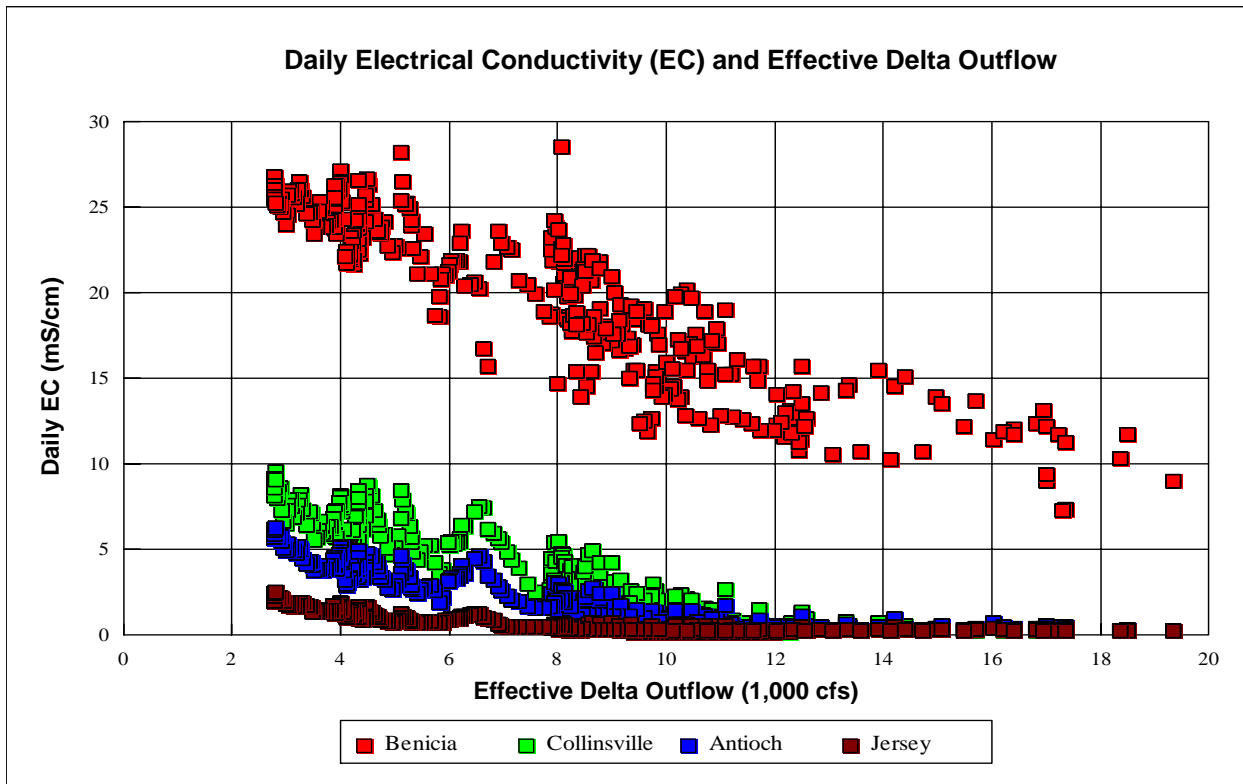
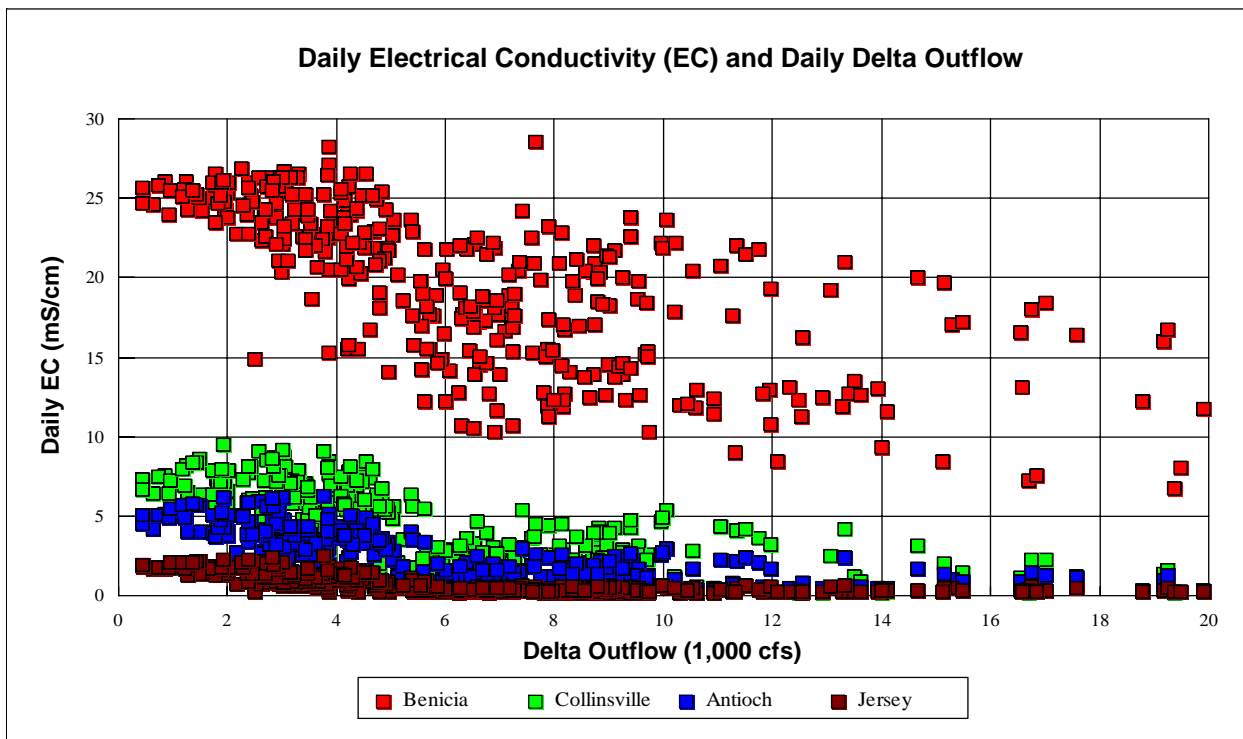


Figure D-131. Drainage and Return Flow Electrical Conductivity by Region for DSM2 Simulations



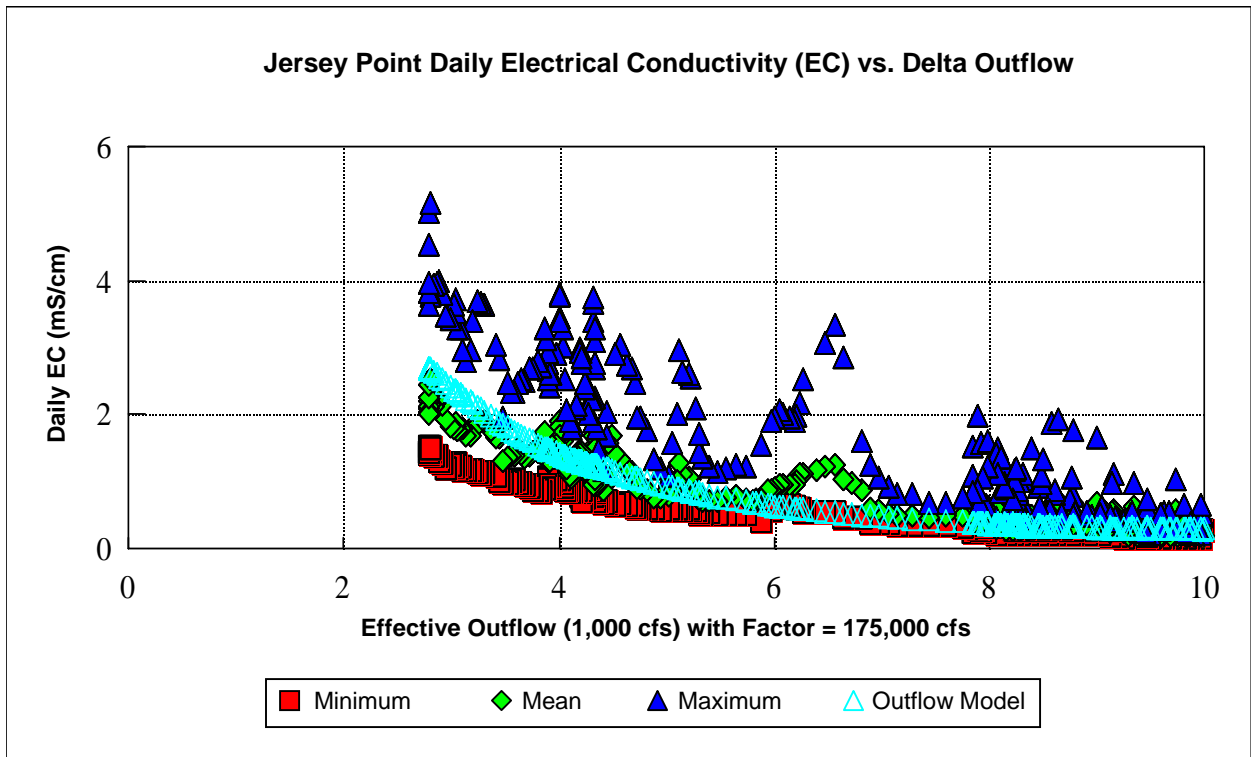
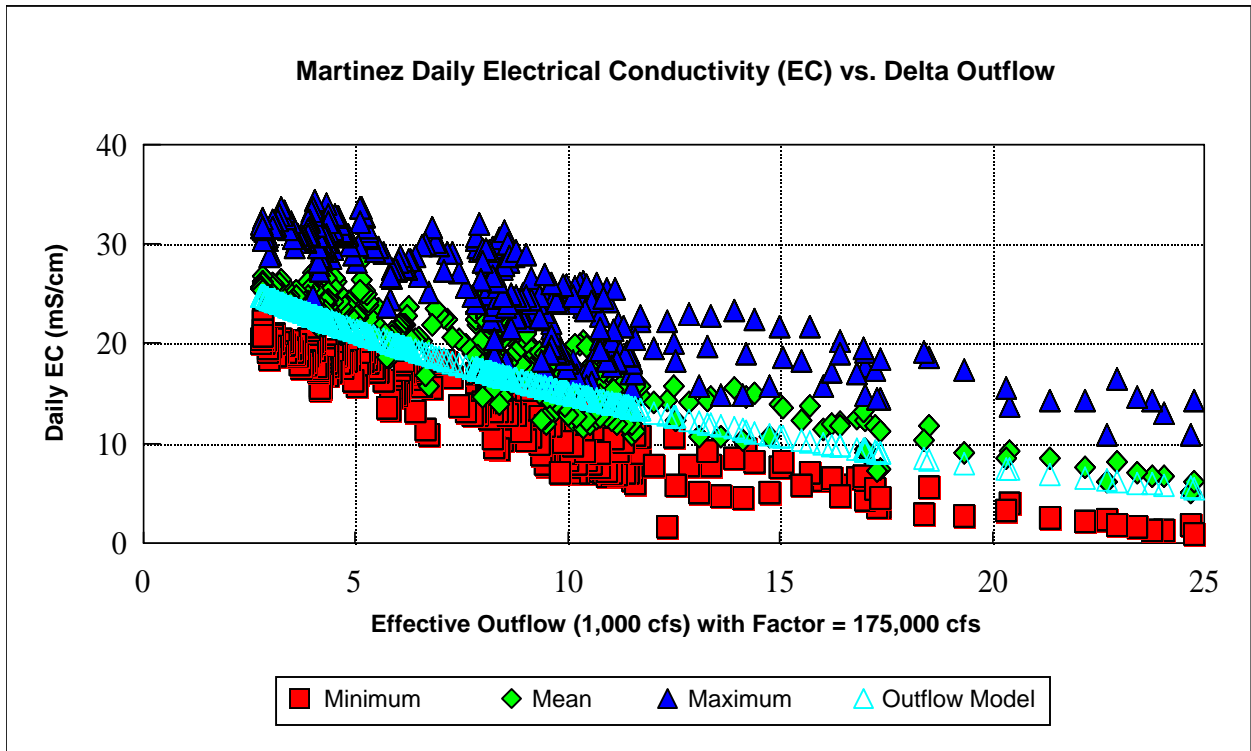
Note: The measured response of electrical conductivity appears to follow the effective outflow, which is a lagged moving average of the daily outflow estimates.

02053.02.101



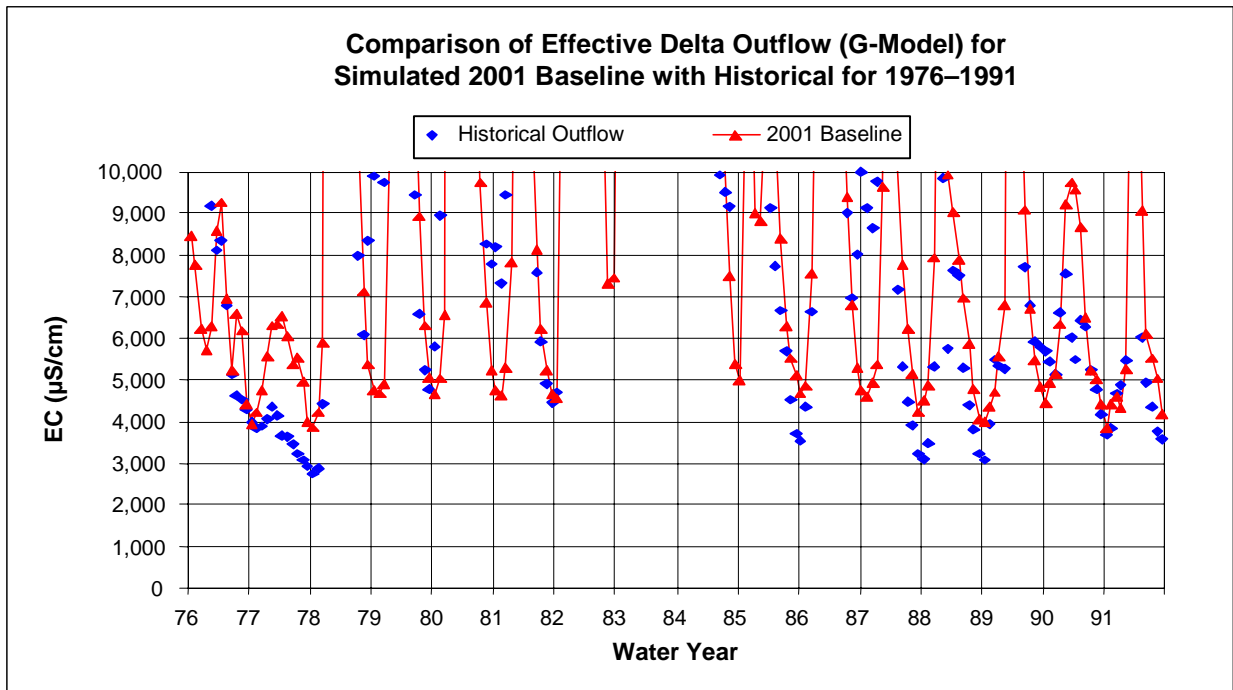
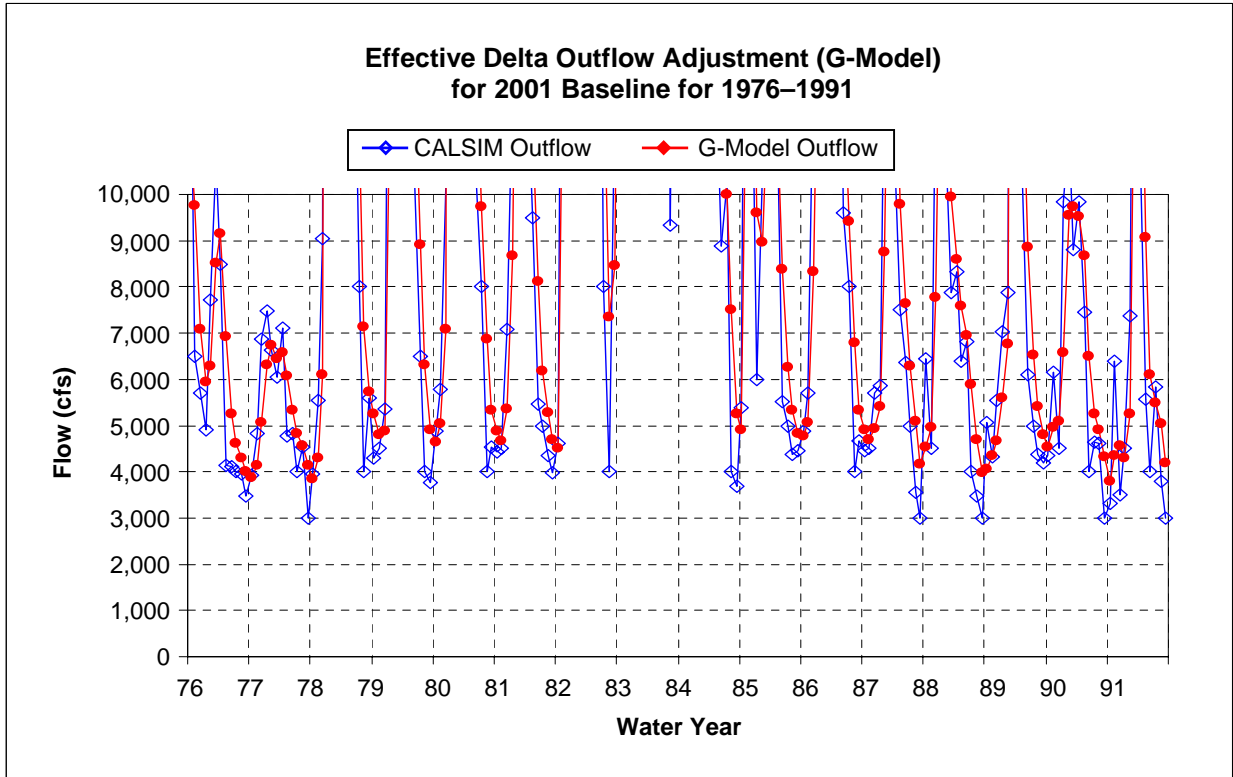
Note: Electrical conductivity at each station is reduced at higher effective outflow. A negative exponential relationship was proposed by Contra Costa Water District staff as the expected relationship for salinity intrusion.

02053.02.101

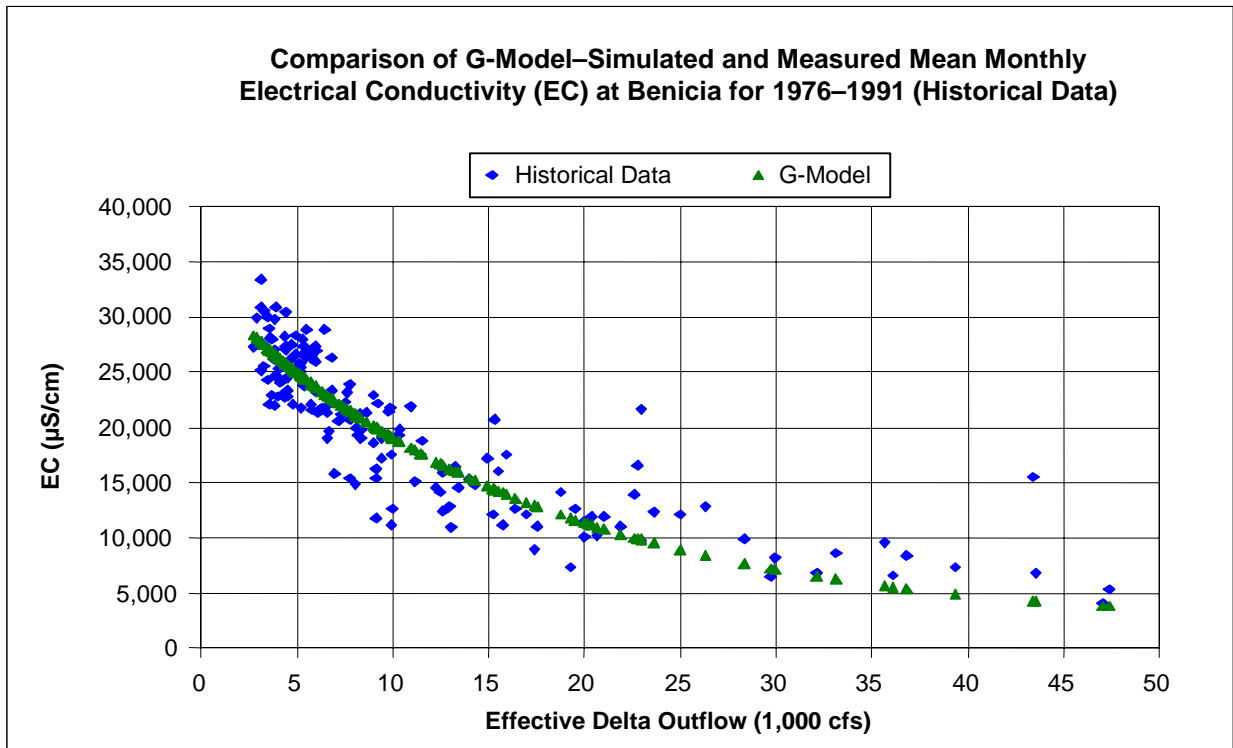
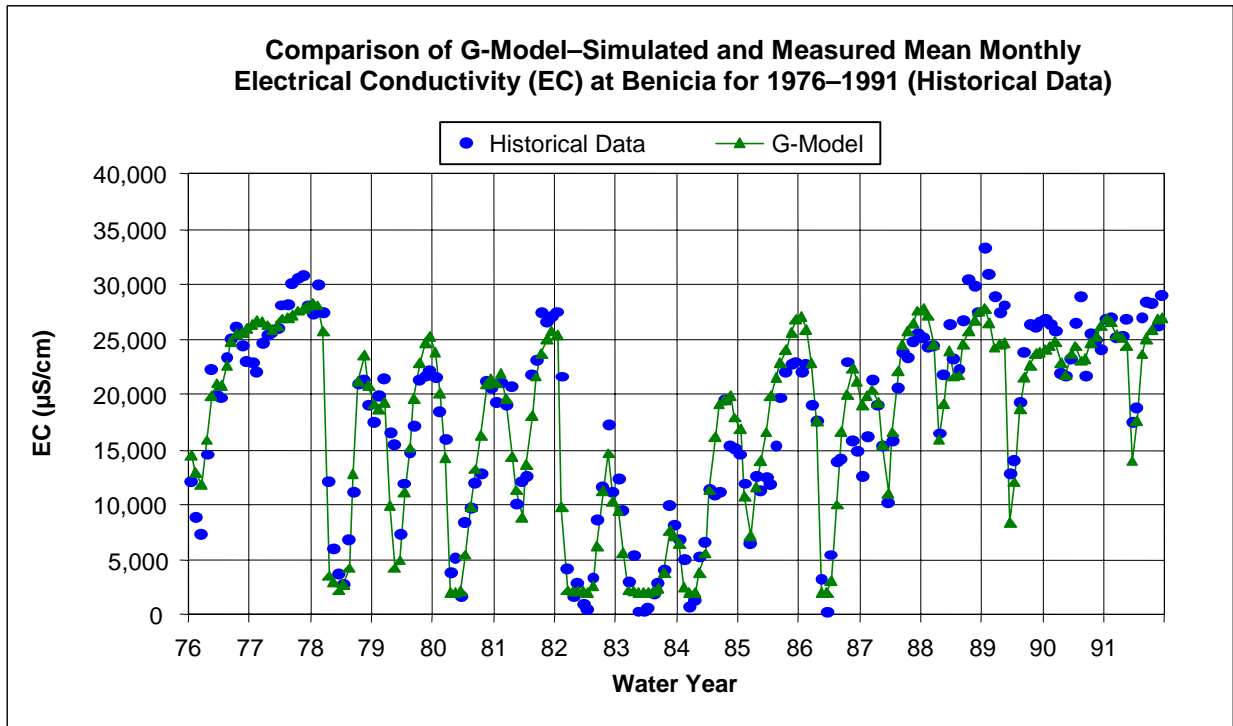


02053.02.101

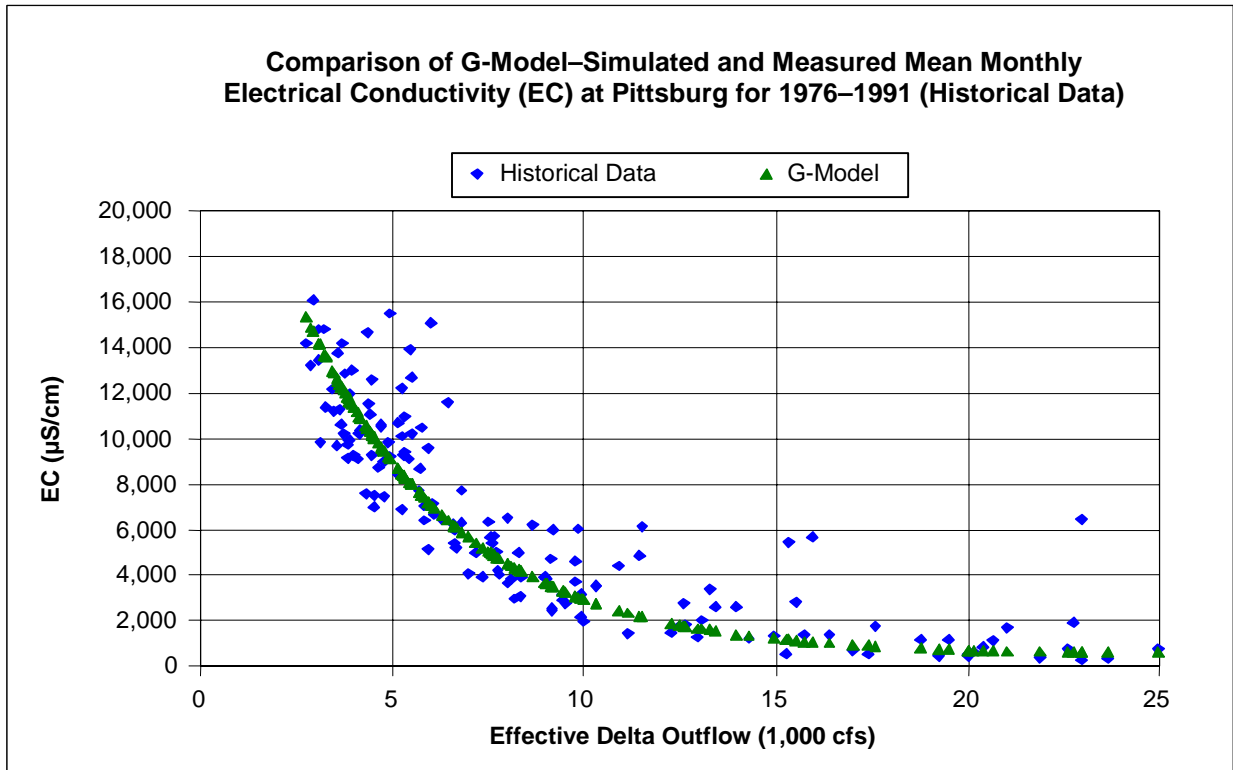
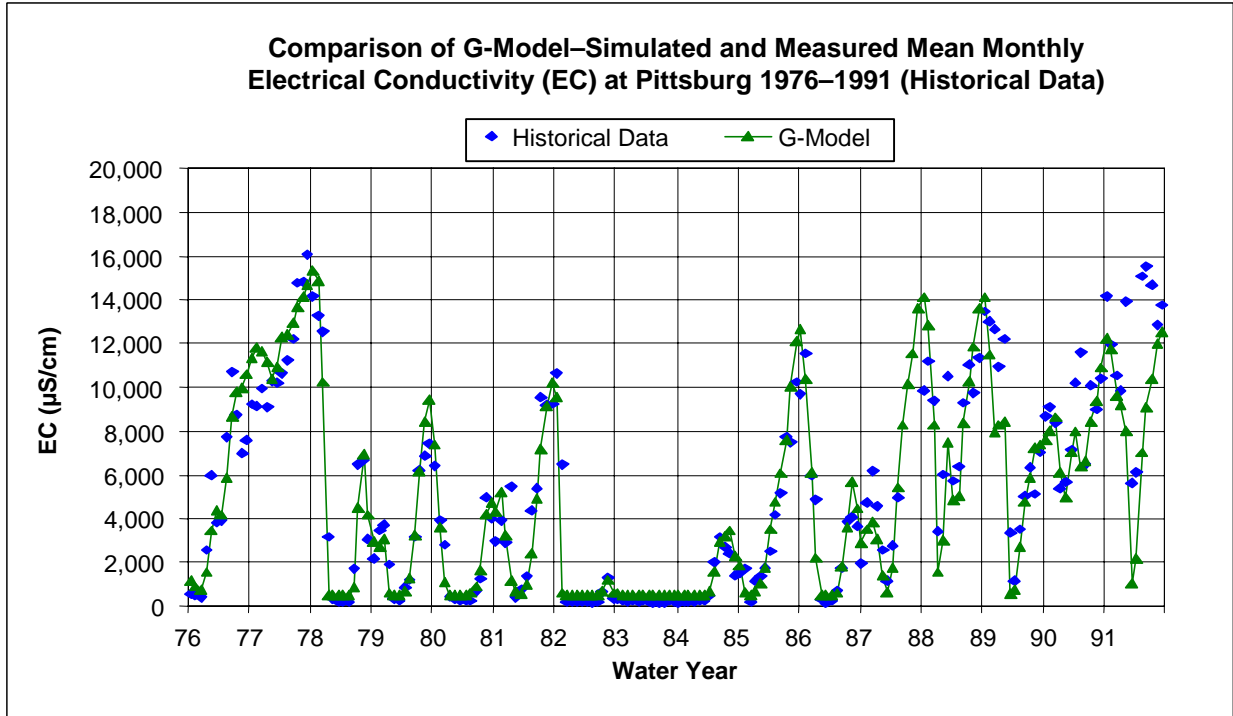
Relationship (Negative Exponential) between Effective Delta Outflow (cfs) and Electrical Conductivity (mS/cm) at Martinez and Jersey Point for Water Year 1987



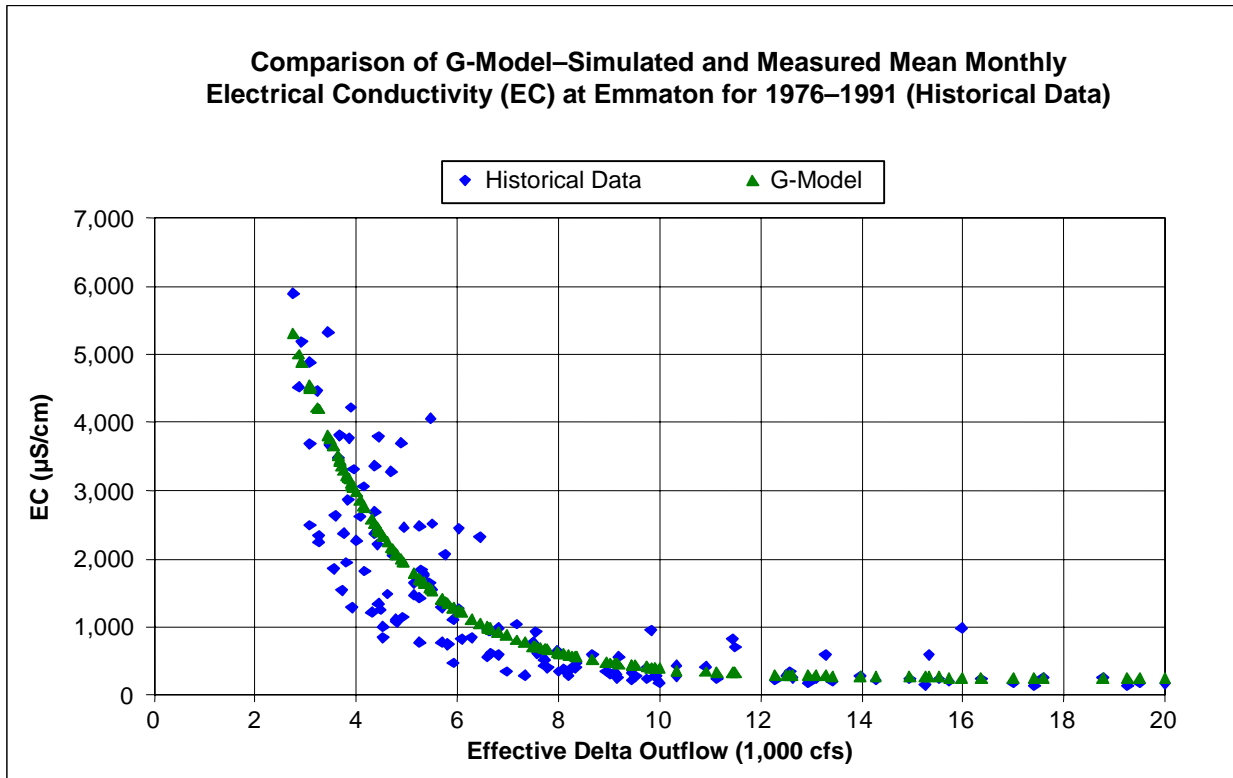
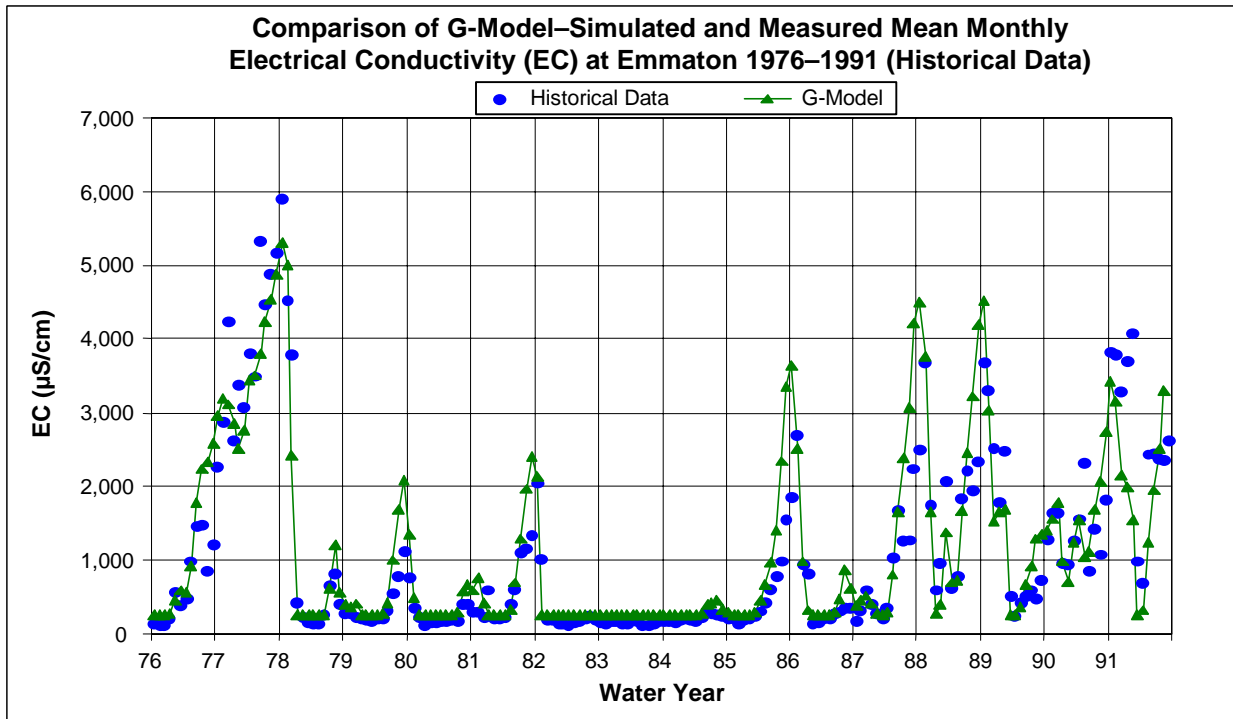
02053.02.101



02053.02.101



02053.02.101



02053.02.101