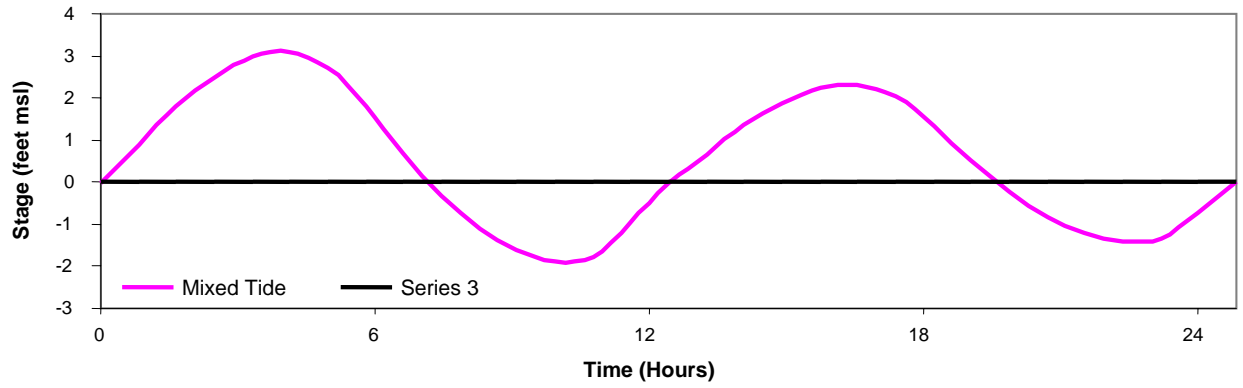
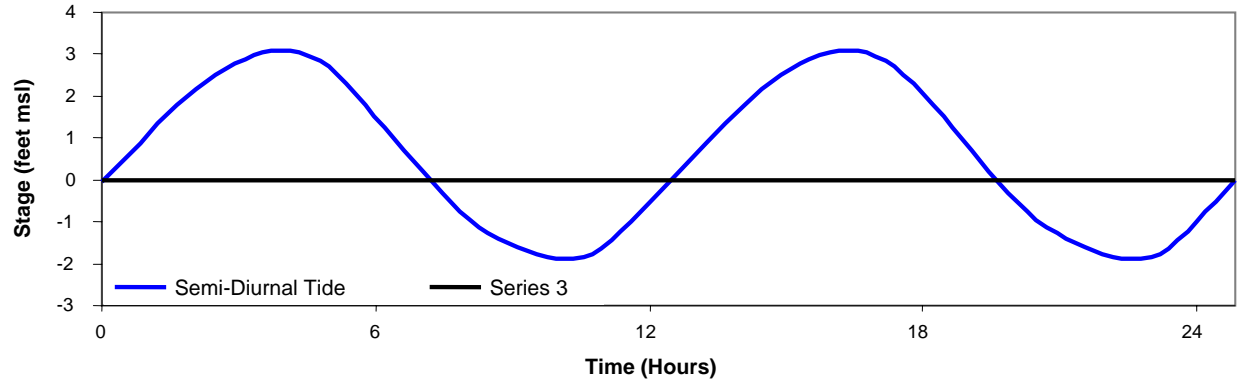
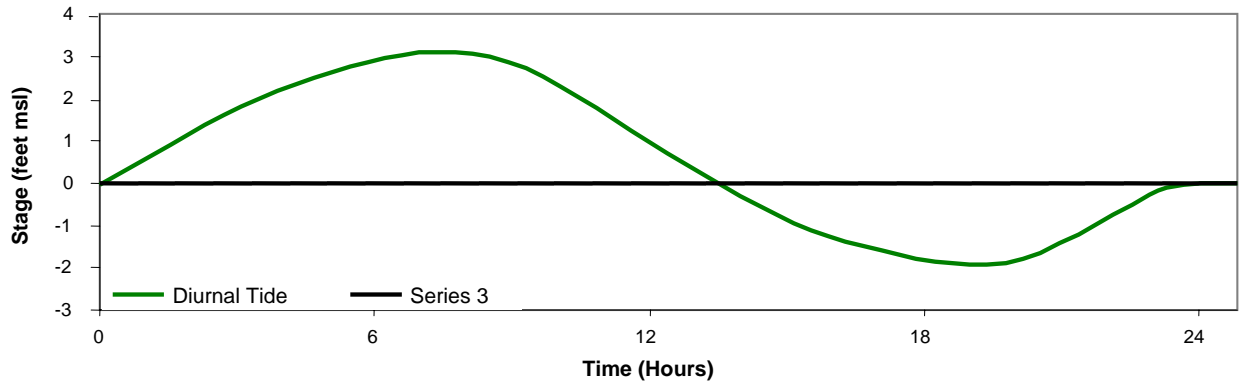


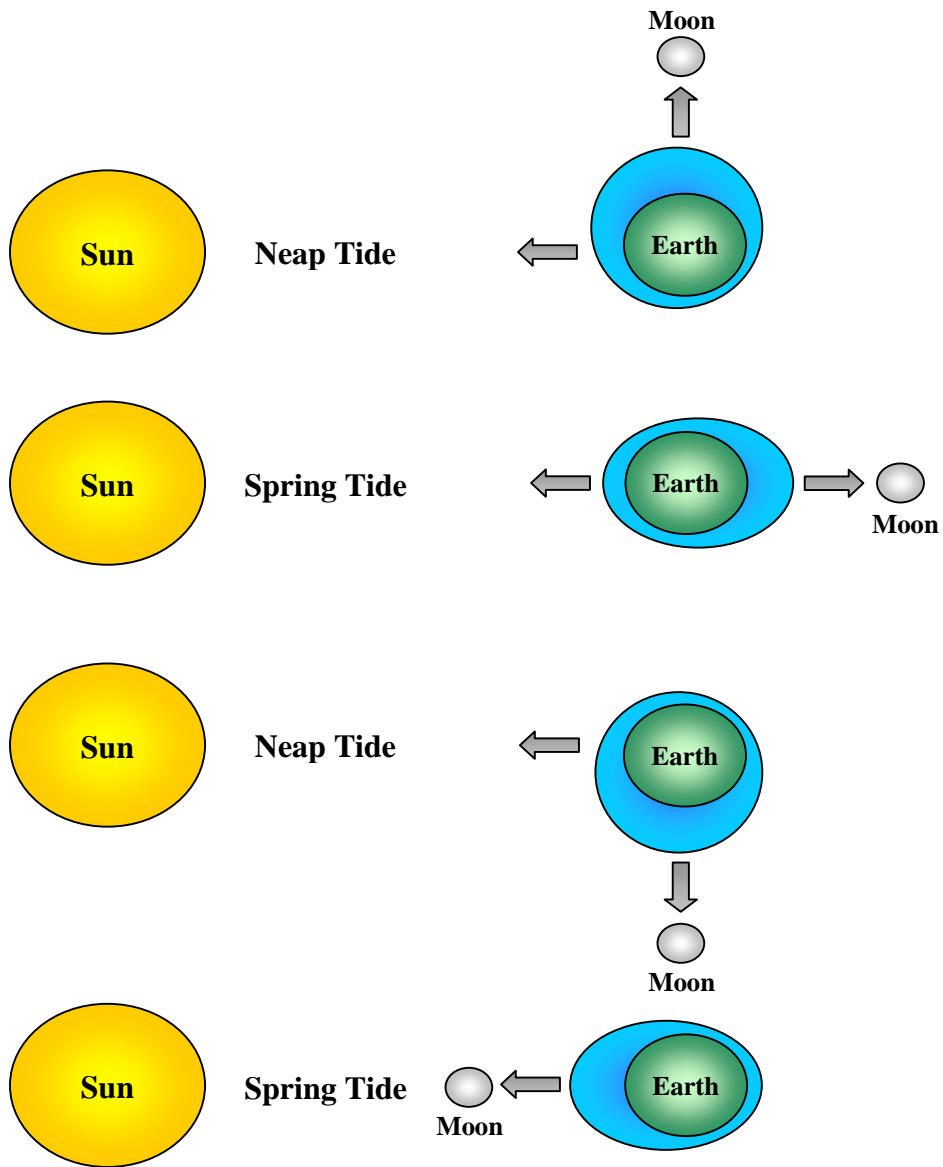
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**Figure D-40**  
**DSM2-Simulated and Measured Tidal Flow**  
**in Grant Line Canal at Tracy Boulevard Bridge for**  
**January 1997–September 1999 and February 17–March 2, 1996**



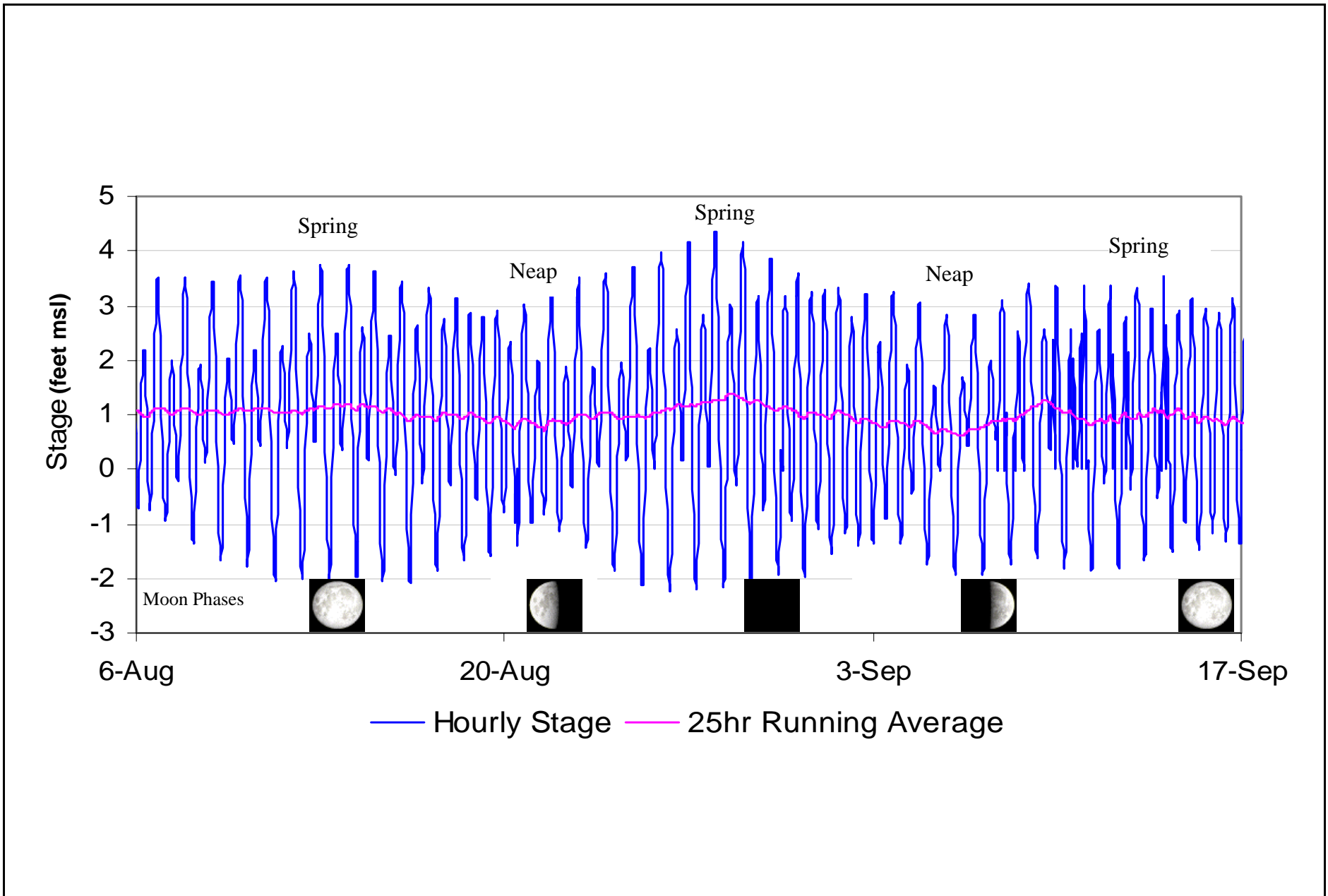
02053.02.101

**Figure D-41**  
**General Types of Tidal Cycles**



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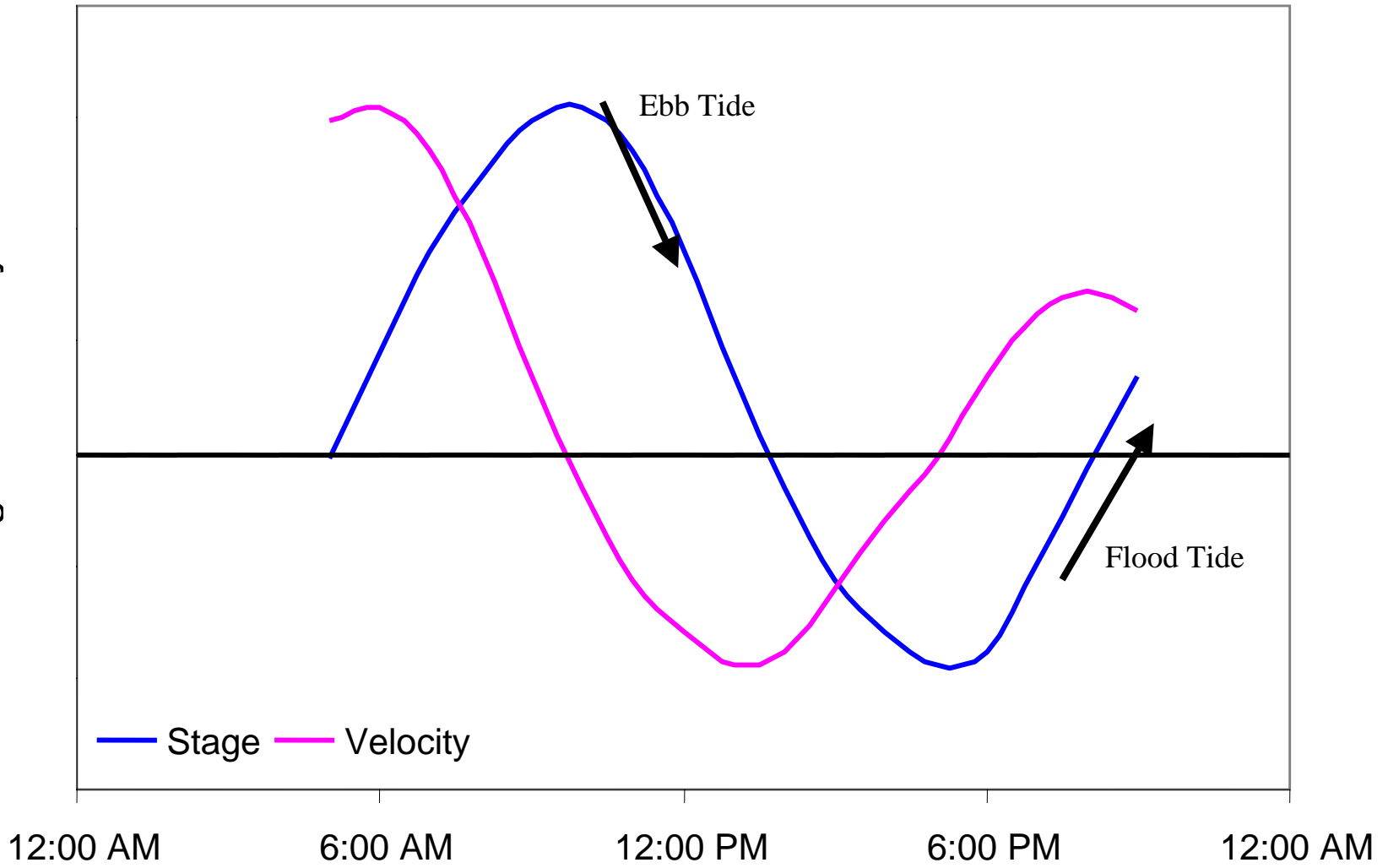
**Figure D-42**  
**Conceptualization of the Effects**  
**of the Sun and Moon on Tides**



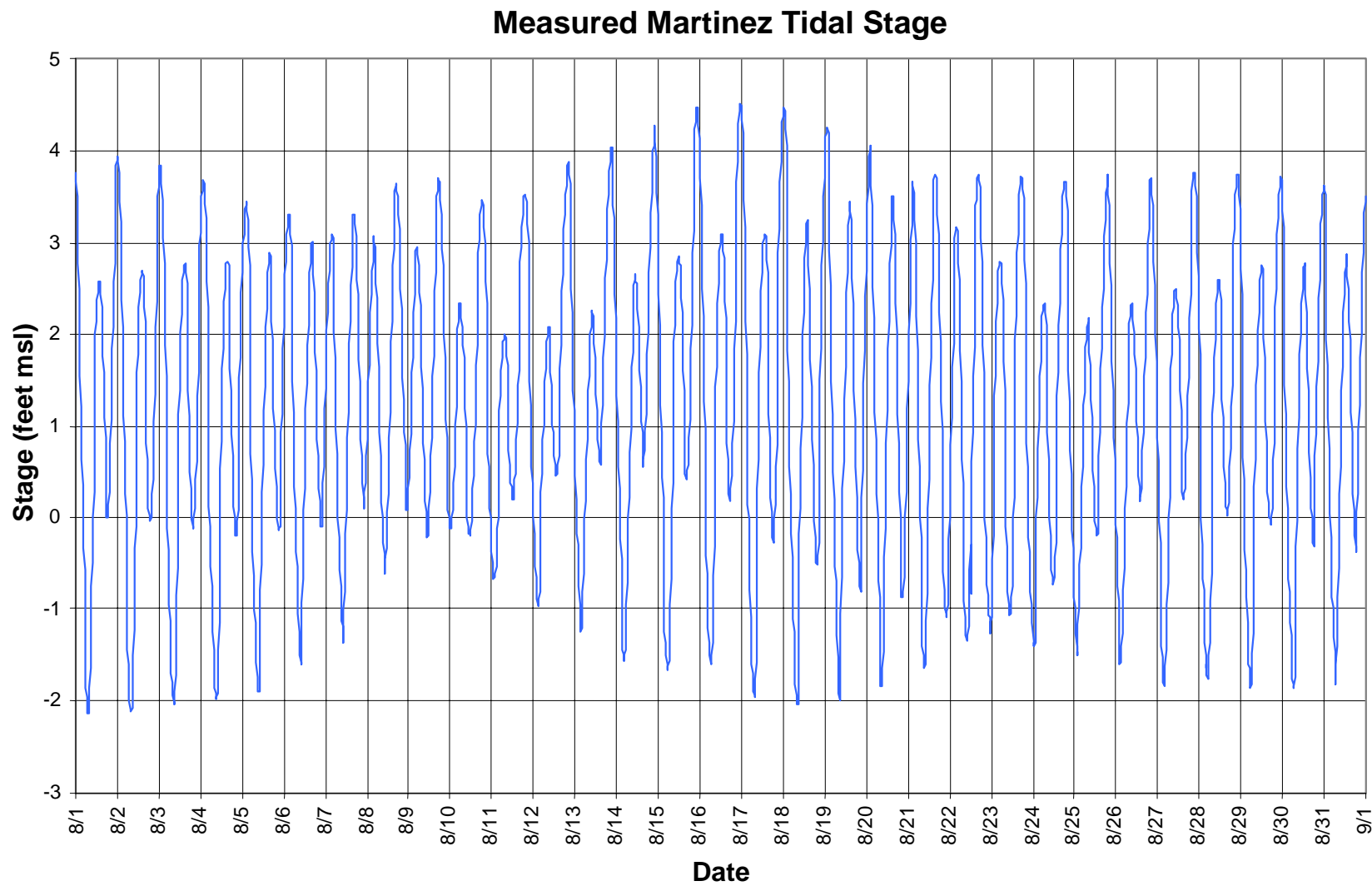
02053.02.101

**Figure D-43**  
**Spring and Neap Tides at Martinez, California,**  
**August and September 2000**

Stage or Velocity



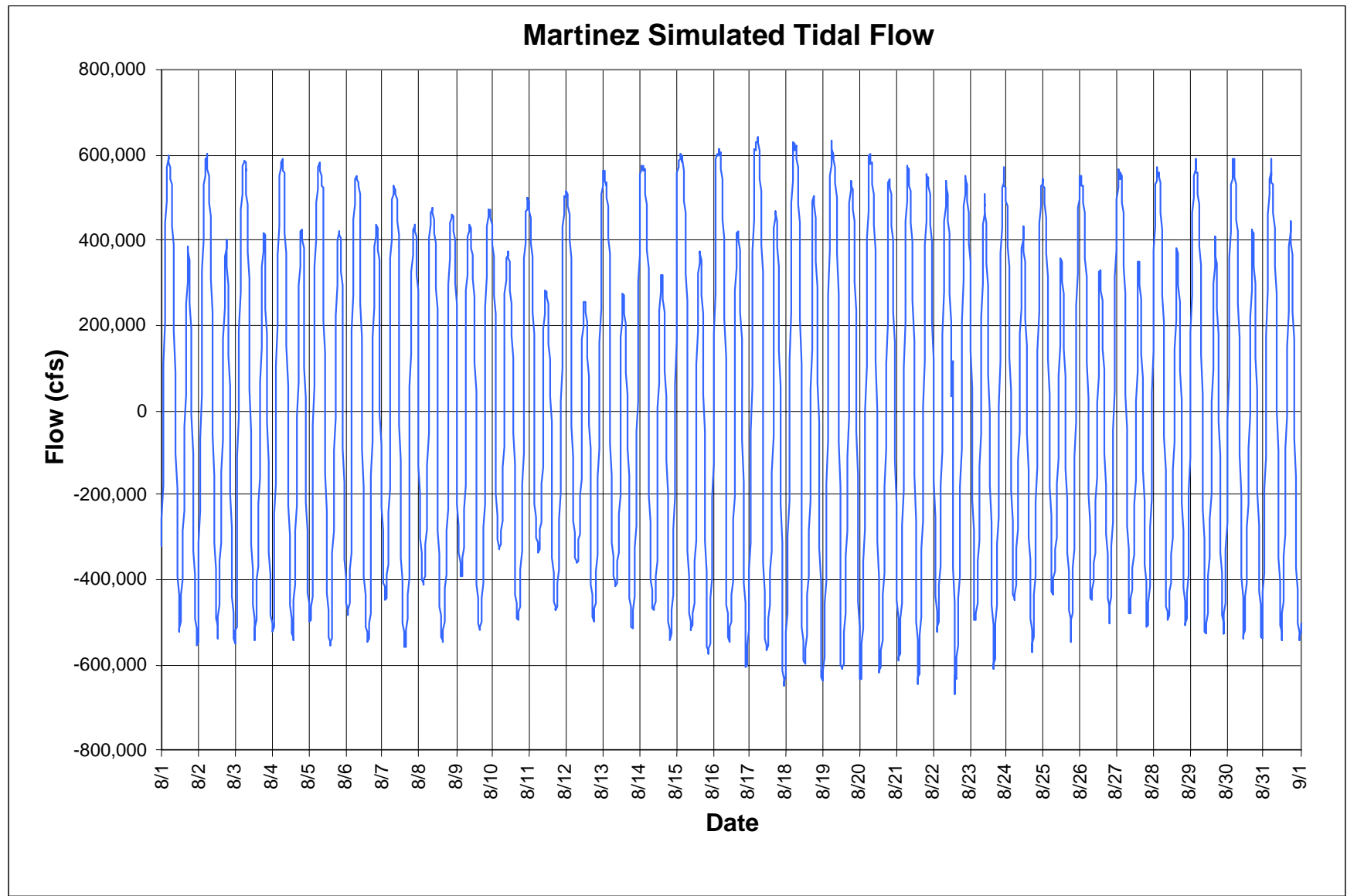
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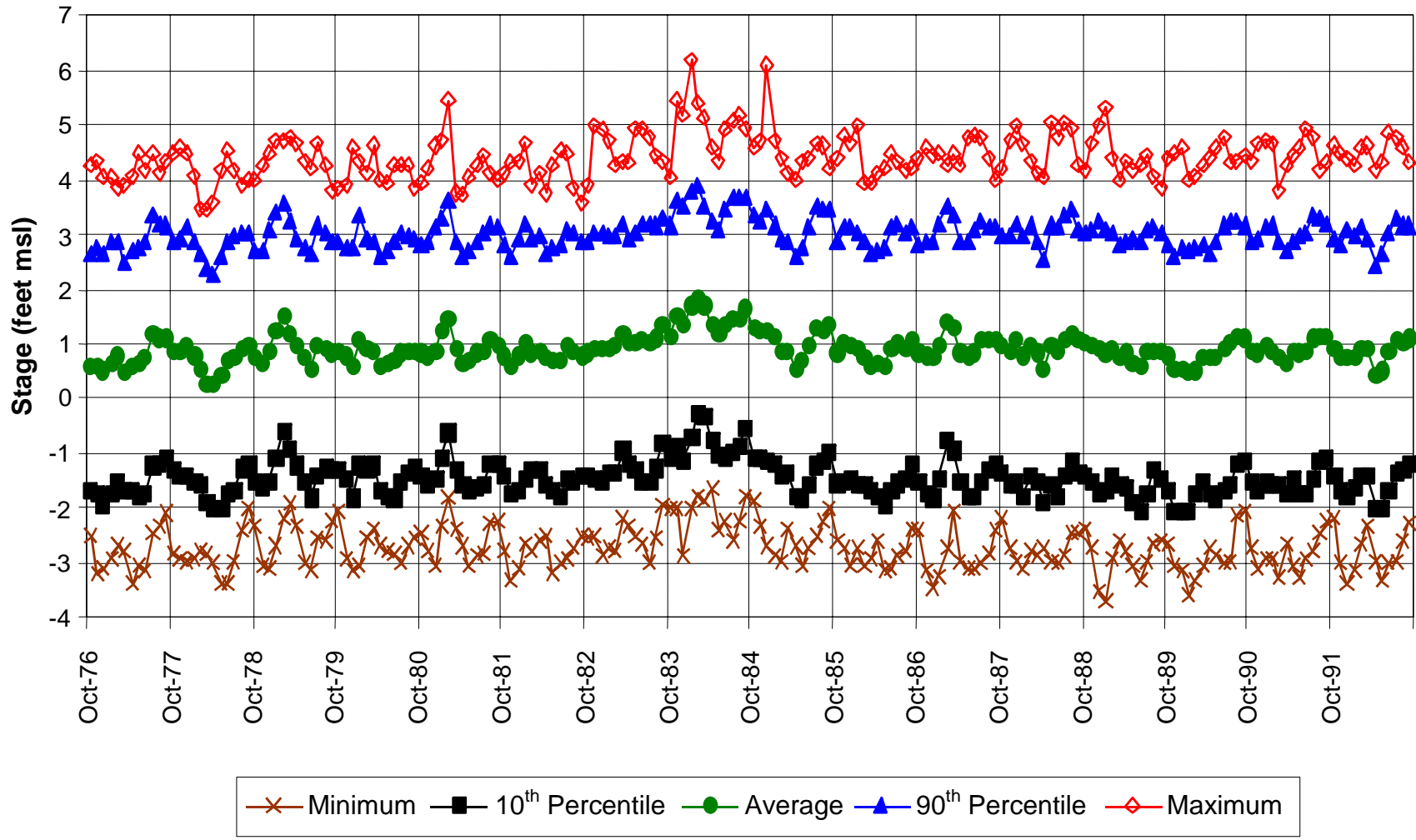
**Figure D-45**  
**Measured Tidal Stage at Martinez, August 1997**

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**Figure D-46**  
**Simulated Tidal Flow at Martinez, August 1997**

### Tidal Stage at Martinez

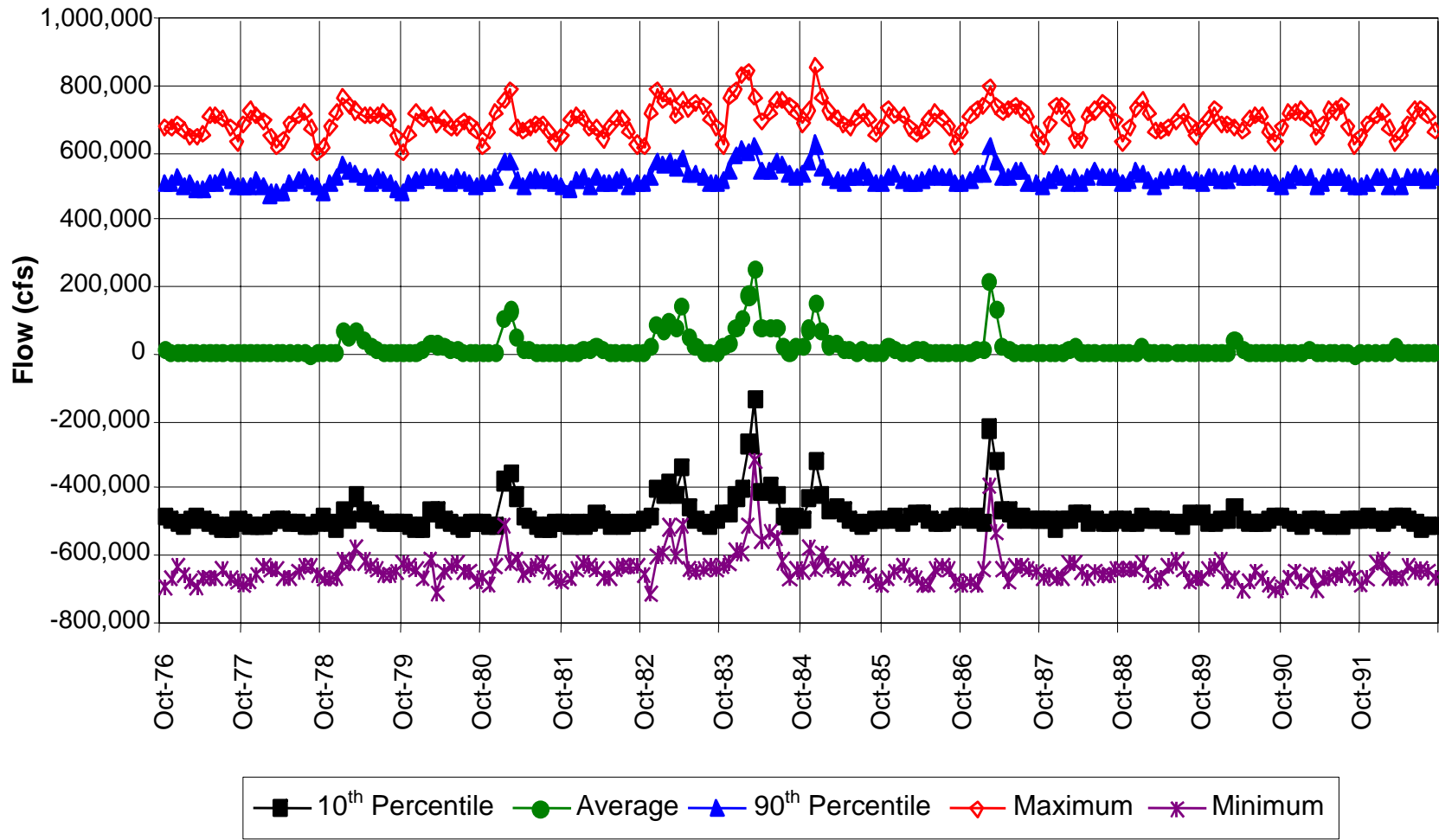


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**Figure D-47**  
**Distribution of Simulated Tidal Stage at**  
**Martinez, Water Years 1976–1991**



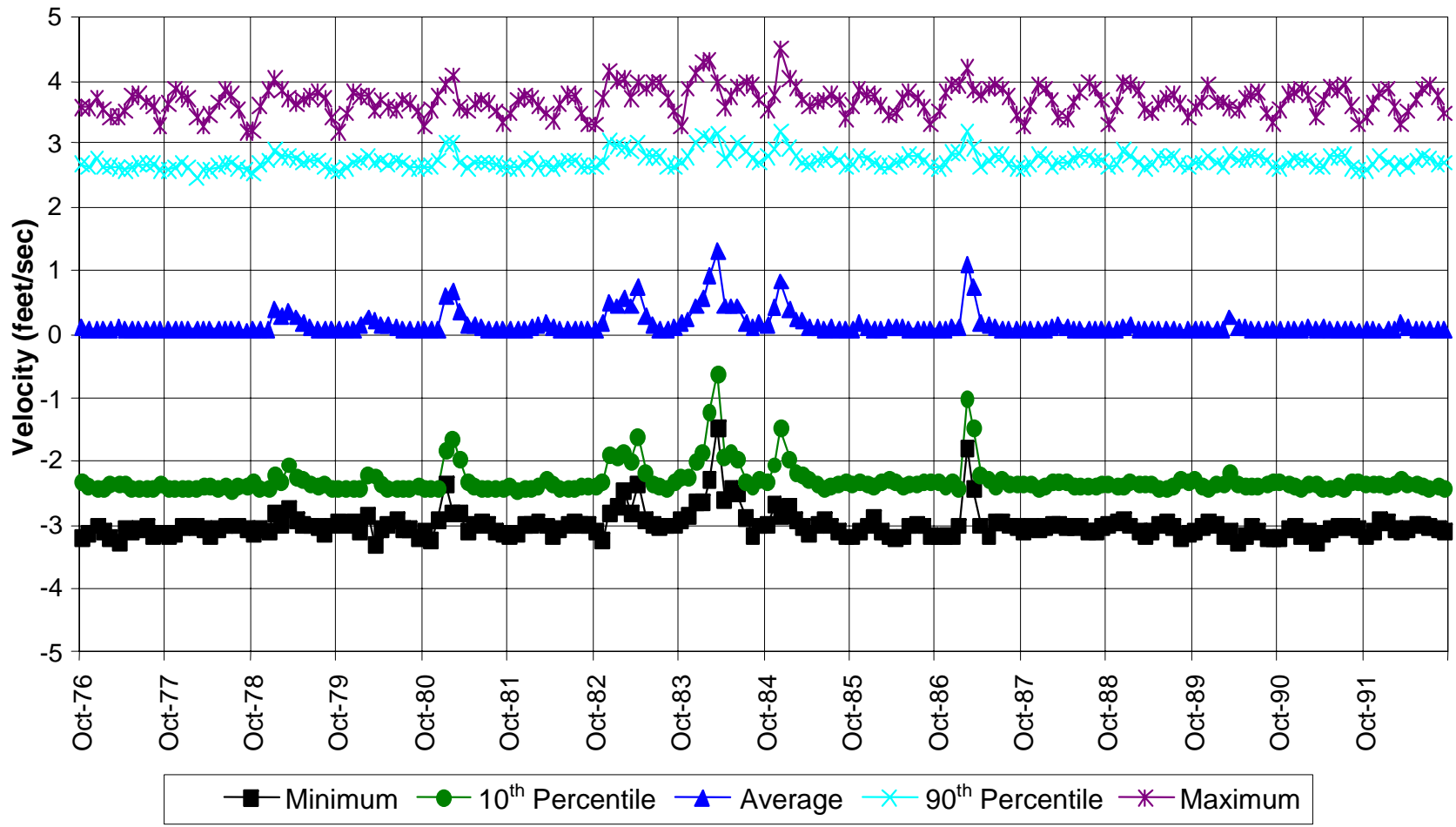
### Tidal Flows at Martinez



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**Figure D-48**  
**Distribution of Simulated Tidal Flow at**  
**Martinez, Water Years 1976–1991**

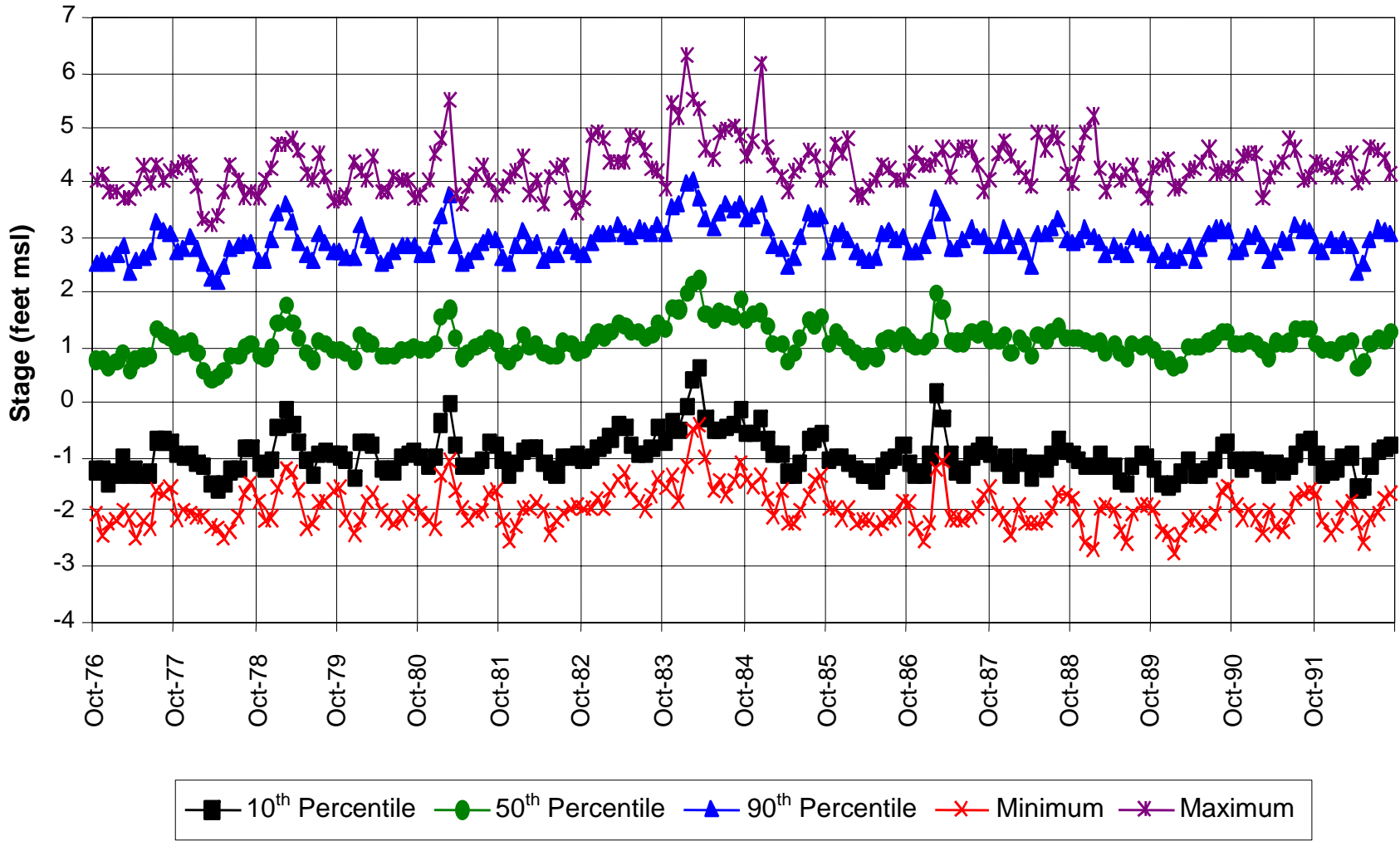
### Tidal Velocity at Martinez



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**Figure D-49**  
**Distribution of Simulated Tidal Velocities at**  
**Martinez, Water Years 1976–1991**

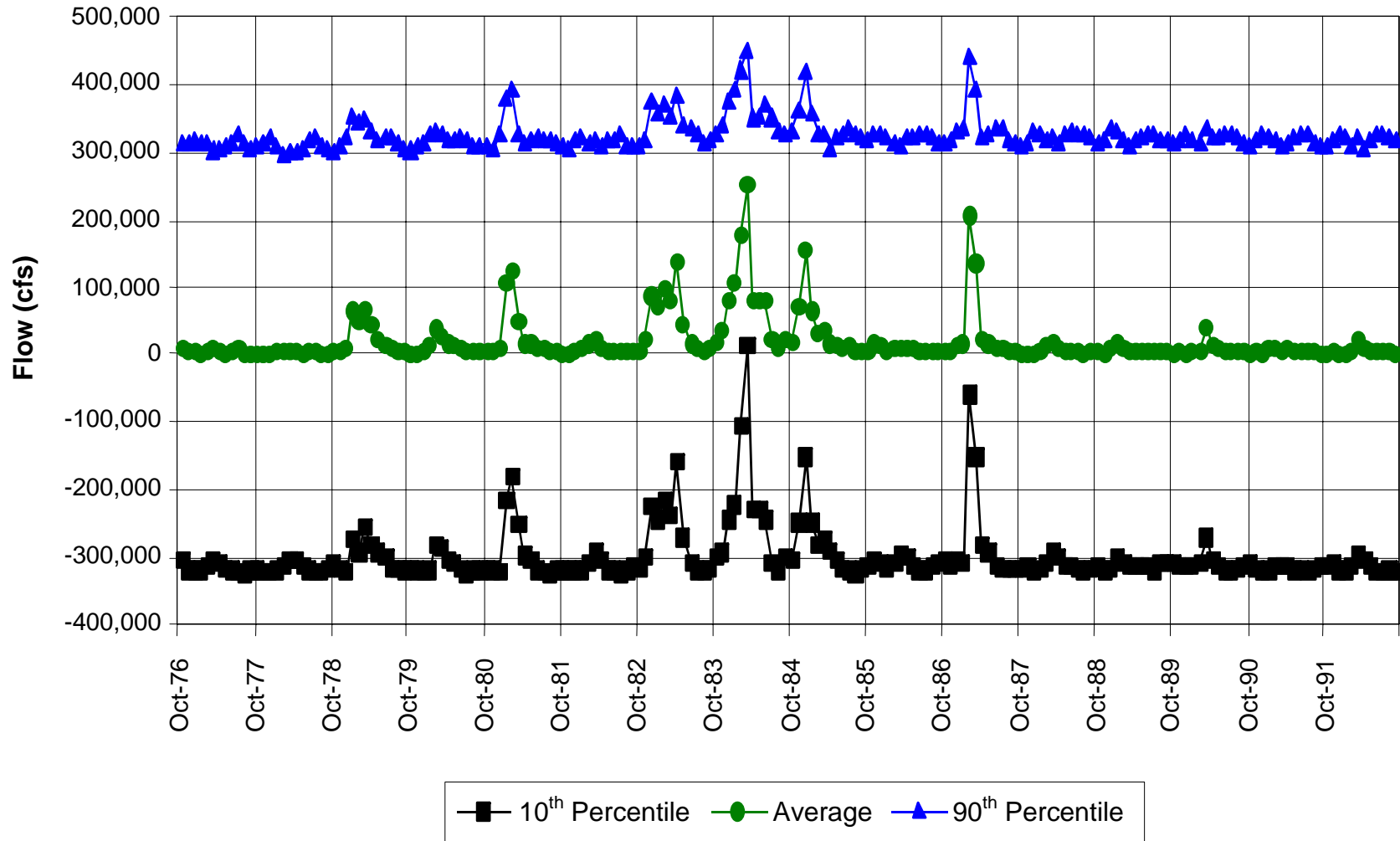
### Chippis Island Stage



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Figure D-50  
Distribution of Simulated Tidal Stage at  
Chippis Island, Water Years 1976–1991

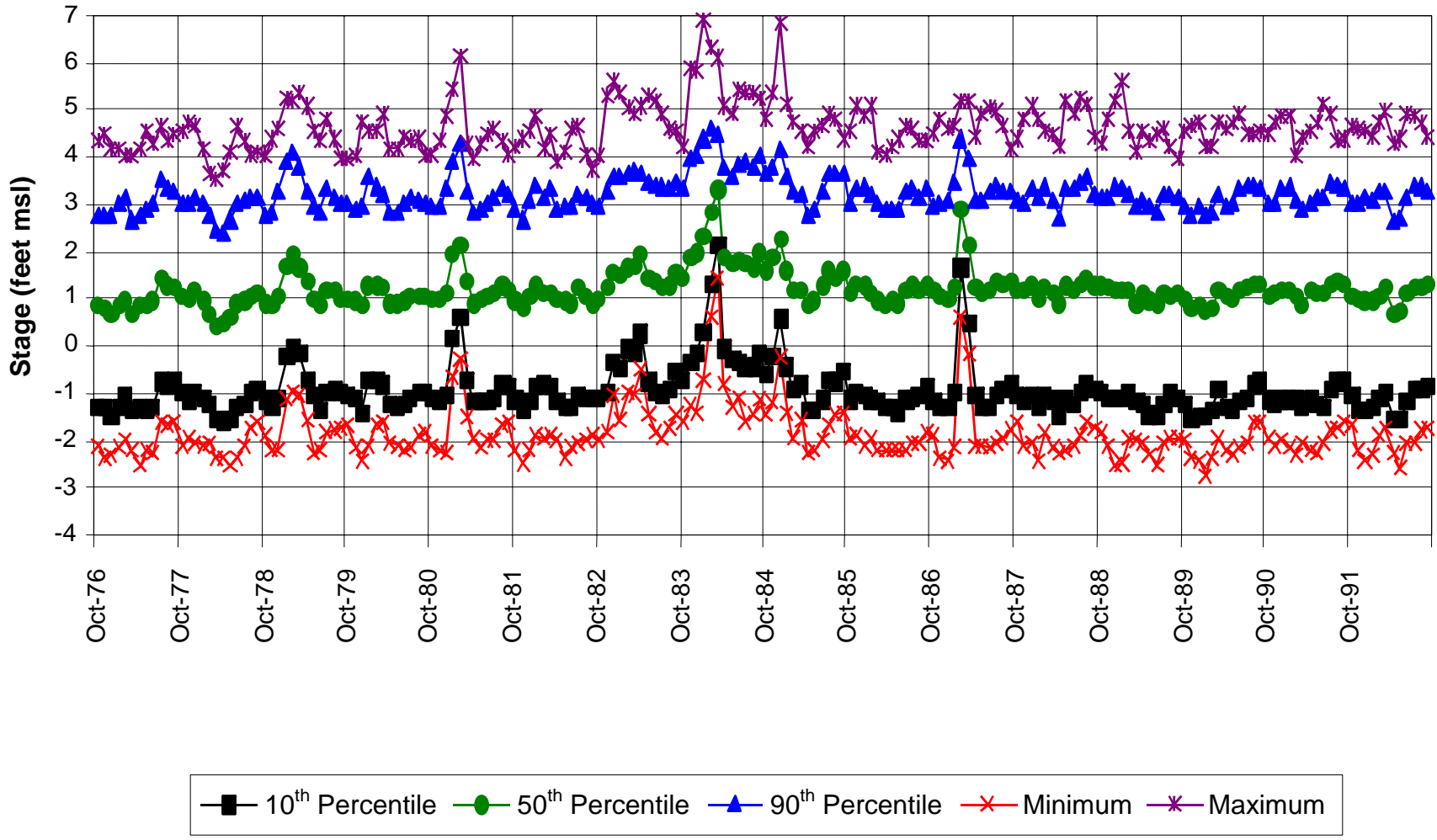
### Chippis Island Tidal Flows



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**Figure D-51**  
**Distribution of Simulated Tidal Flows at**  
**Chippis Island, Water Years 1976–1991**

### Tidal Stage in the Sacramento River at Rio Vista

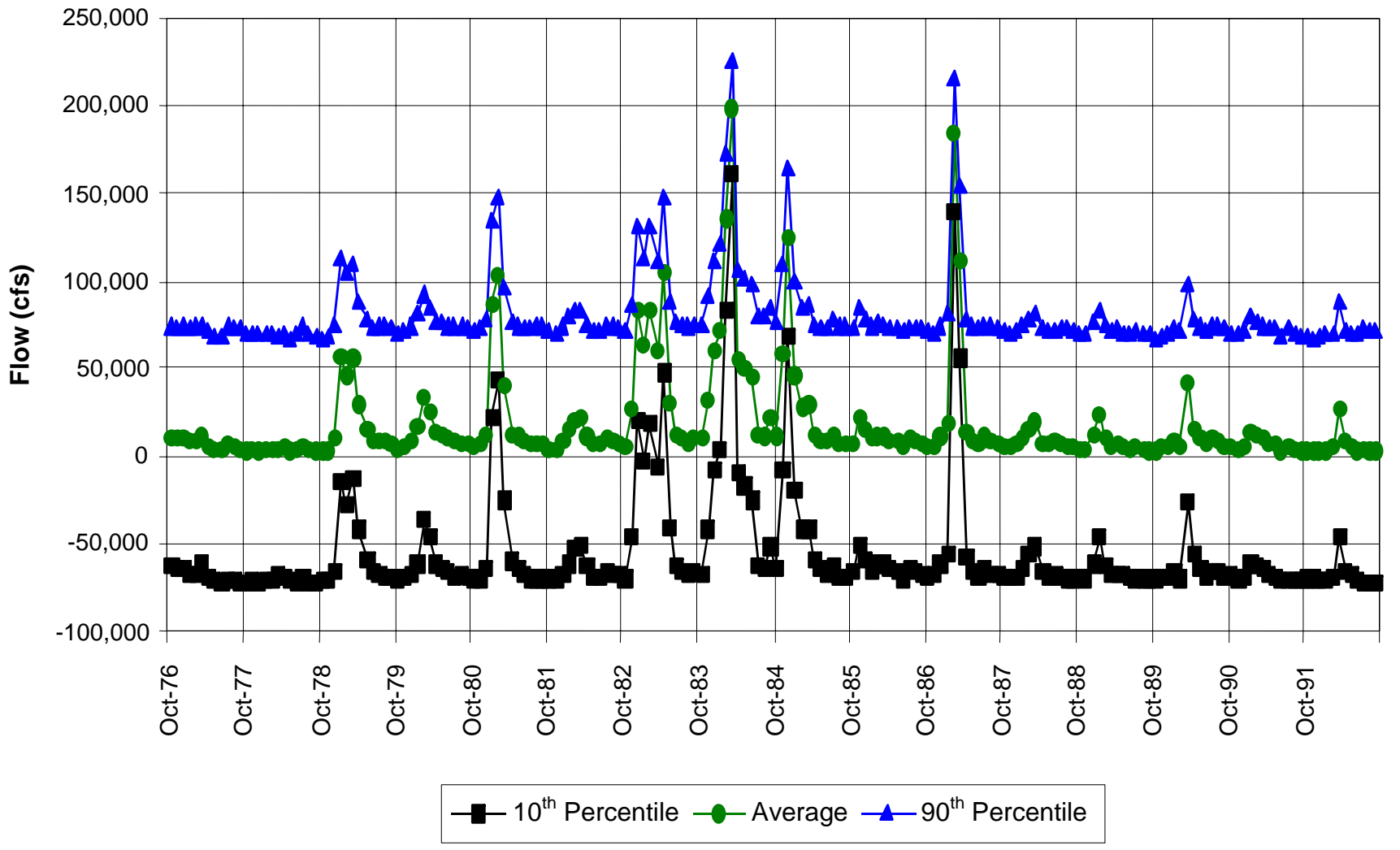


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Figure D-52

Distribution of Simulated Tidal Stage in the Sacramento River at Rio Vista, Water Years 1976–1991

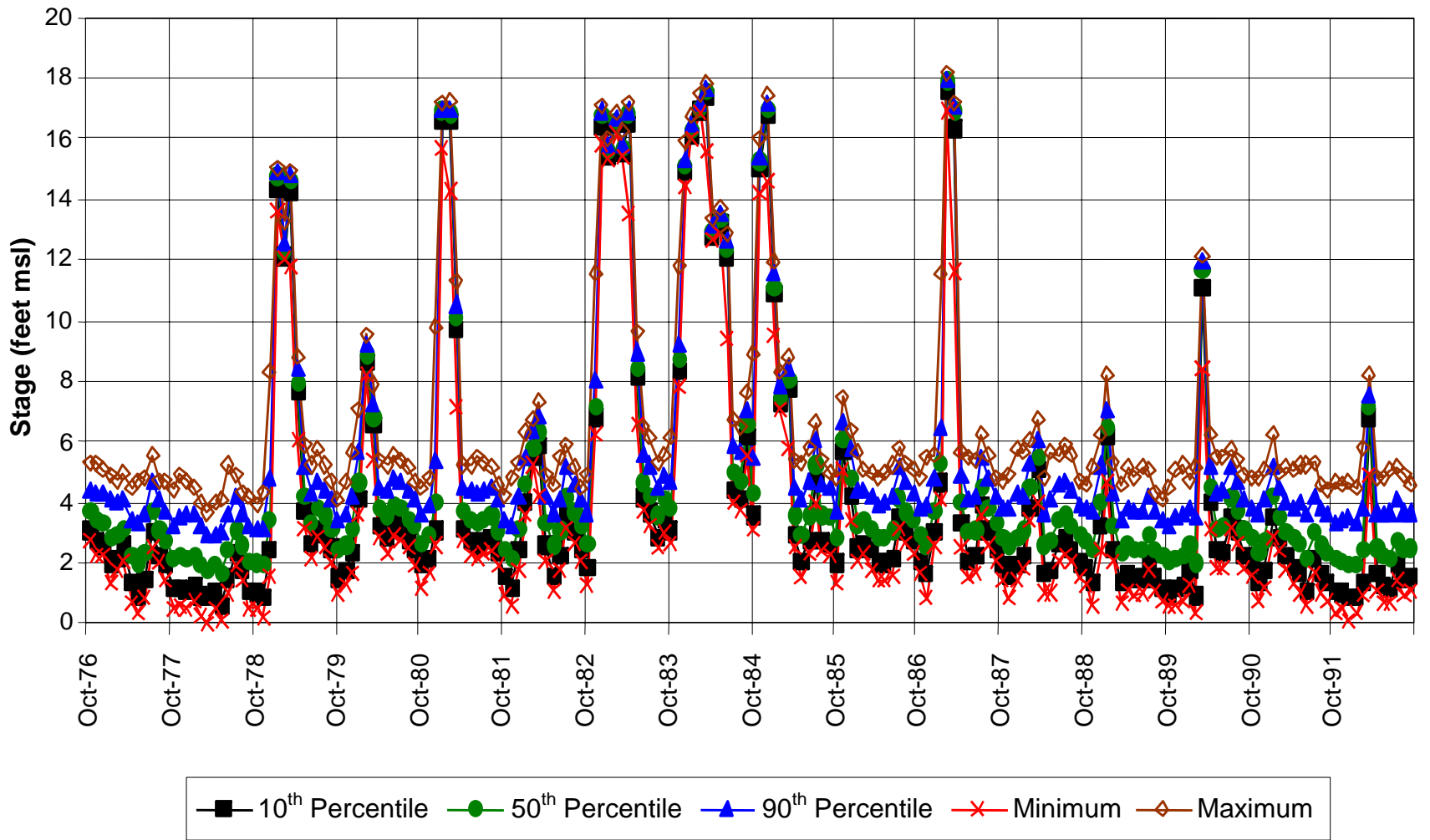
### Tidal Flows in the Sacramento River at Rio Vista



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**Figure D-53**  
**Distribution of Simulated Tidal Flow in the Sacramento River at Rio Vista, Water Years 1976–1991**

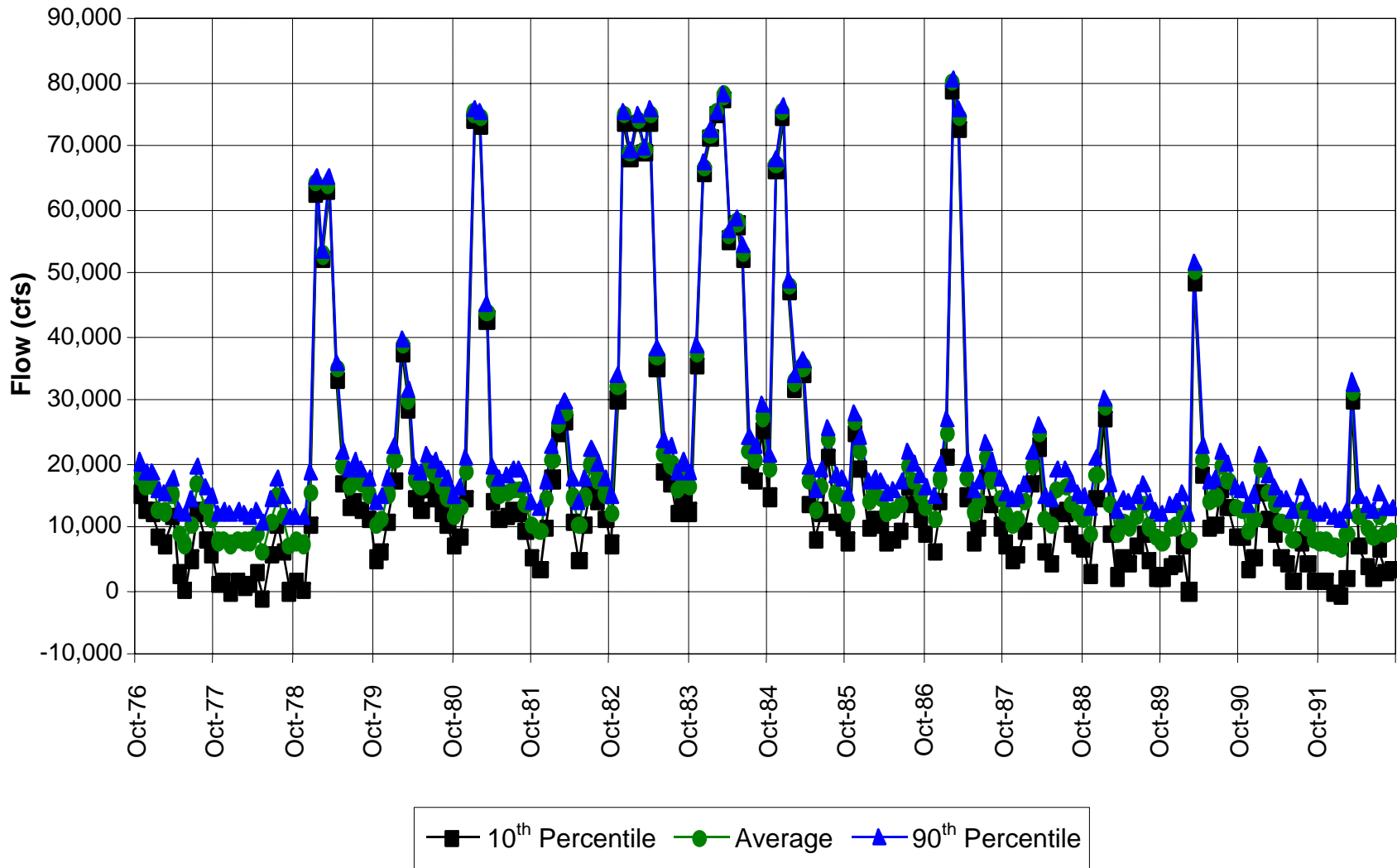
### Sacramento River Stage at Freeport



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**Figure D-54**  
**Distribution of Simulated River Stage in the Sacramento River at Freeport, Water Years 1976–1991**

### Sacramento River Flow at Freeport

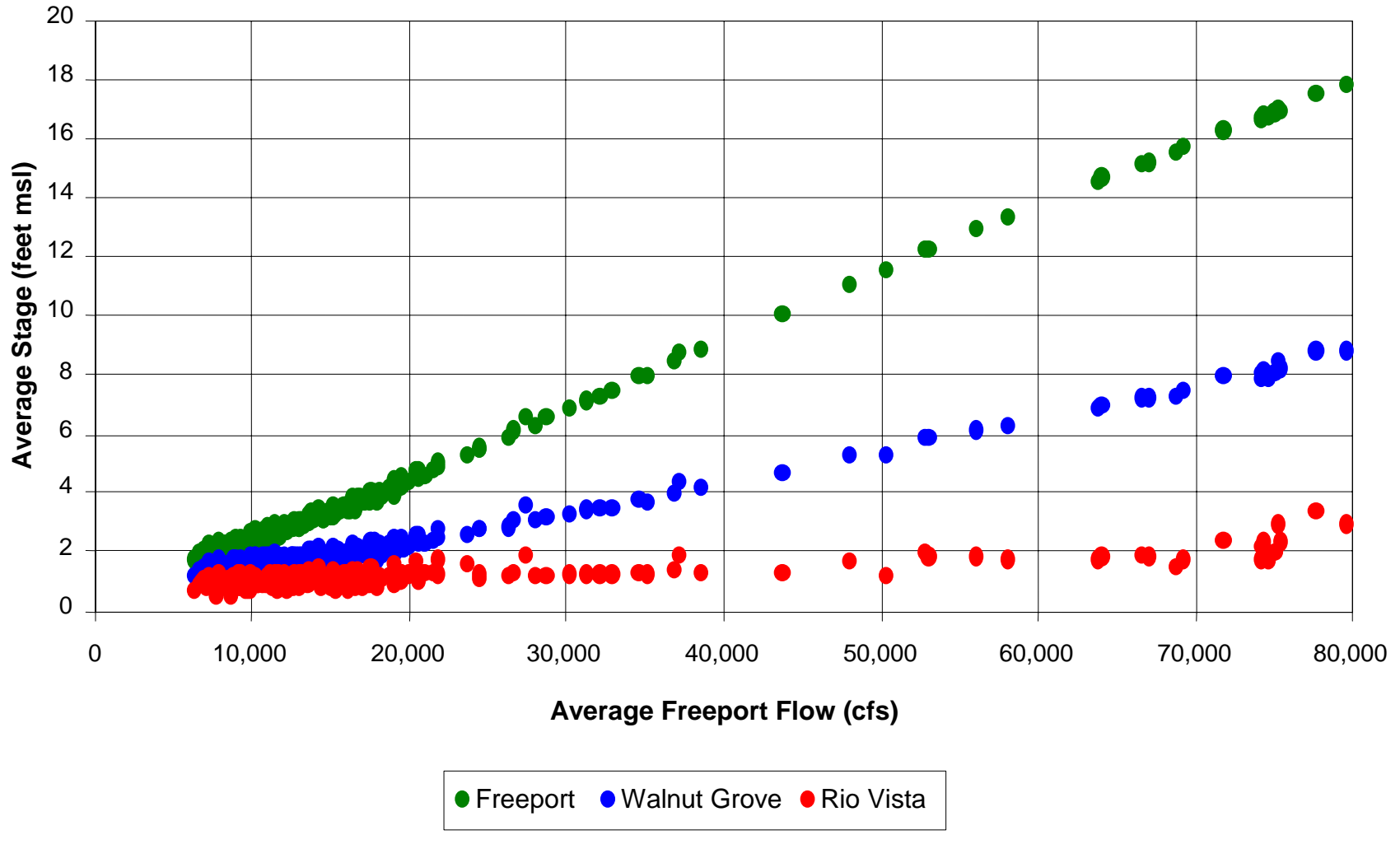


02053.02.101

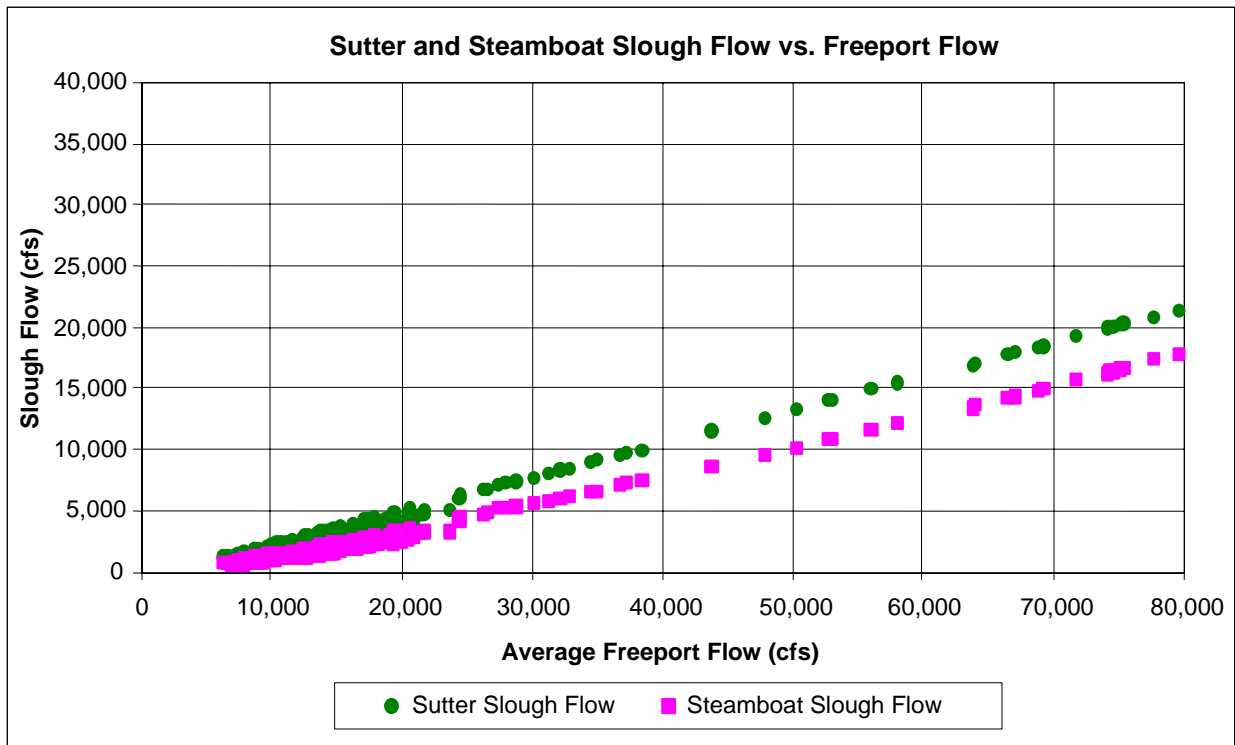
**Figure D-55**  
**Distribution of Simulated River Flow in the Sacramento River at Freeport, Water Years 1976–1991**



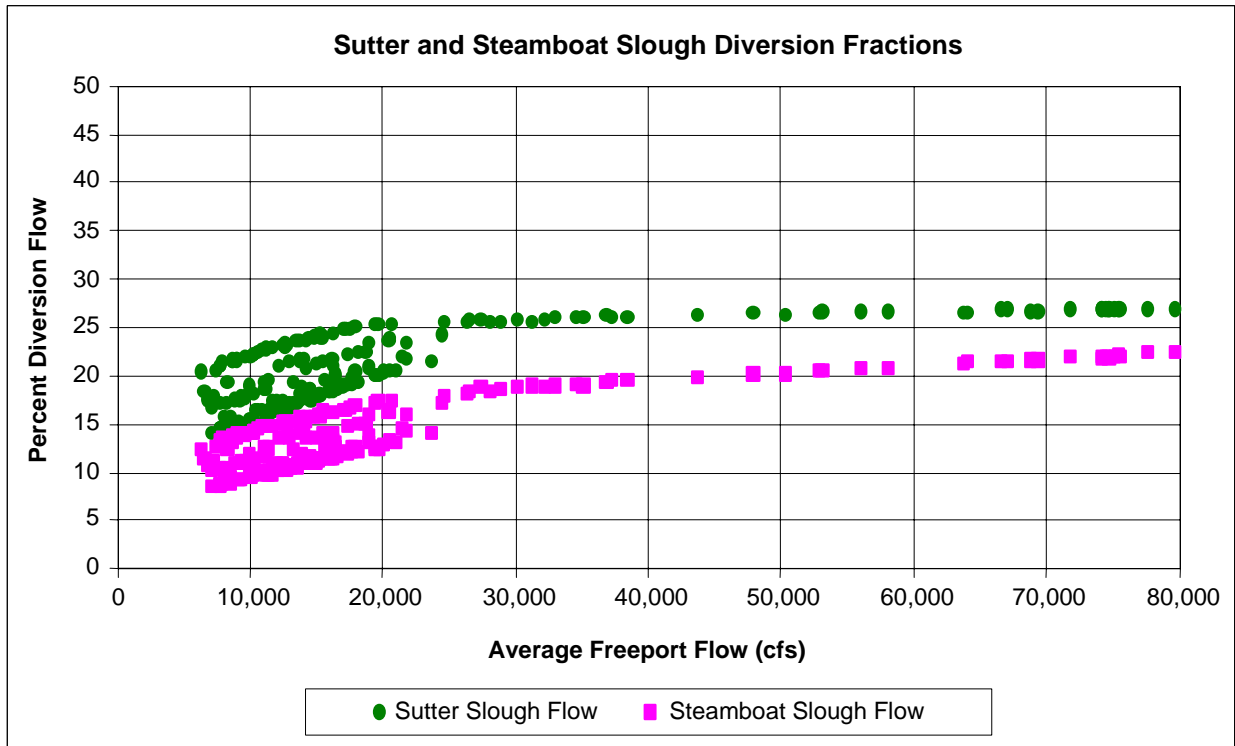
### Sacramento River Stage-Discharge Relationships



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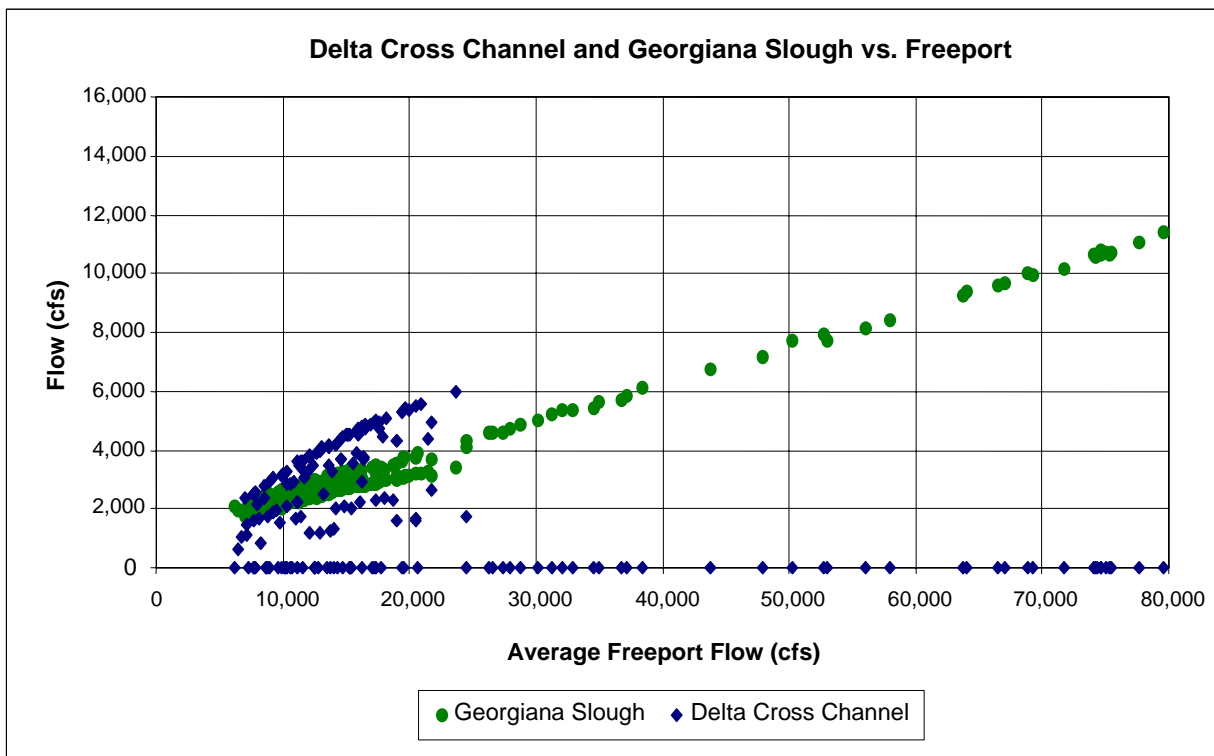


**Figure D-57a.** Freeport Flow vs. Sutter and Steamboat Sloughs Flow, Water Years 1976–1991

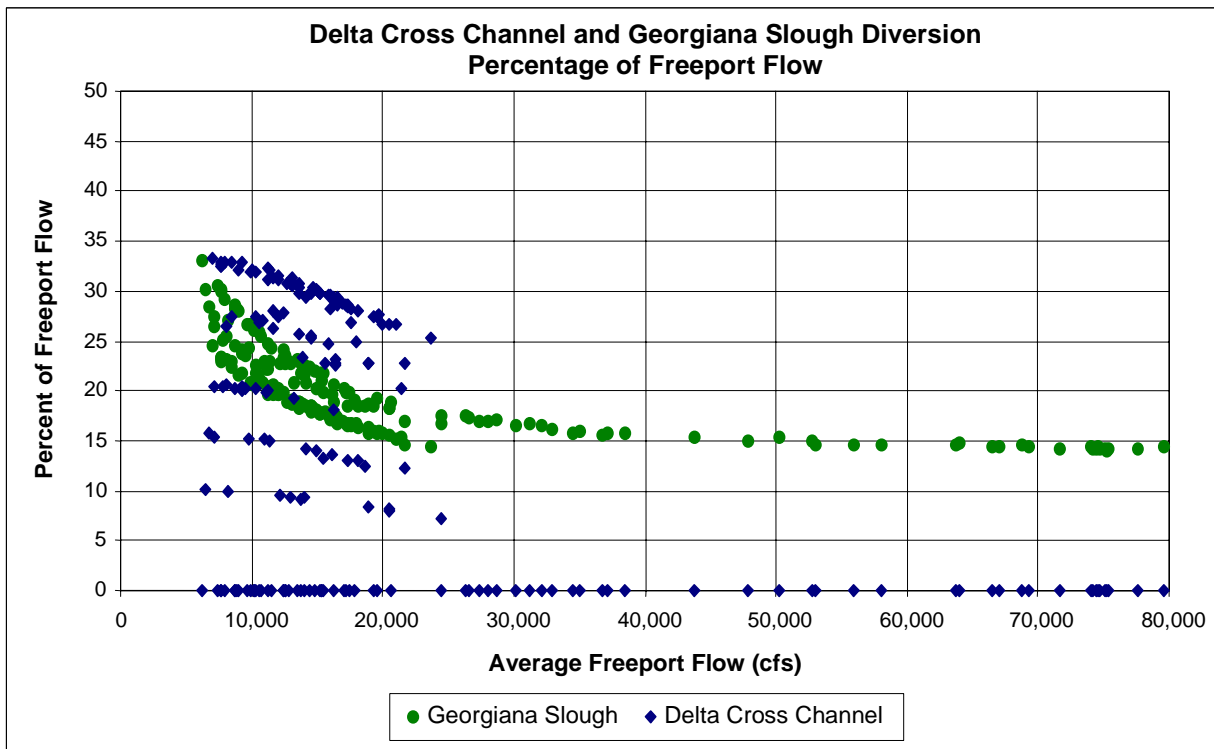


**Figure D-57b.** Freeport Flow vs. Diversions in Sutter and Steamboat Sloughs, Water Years 1976–1991

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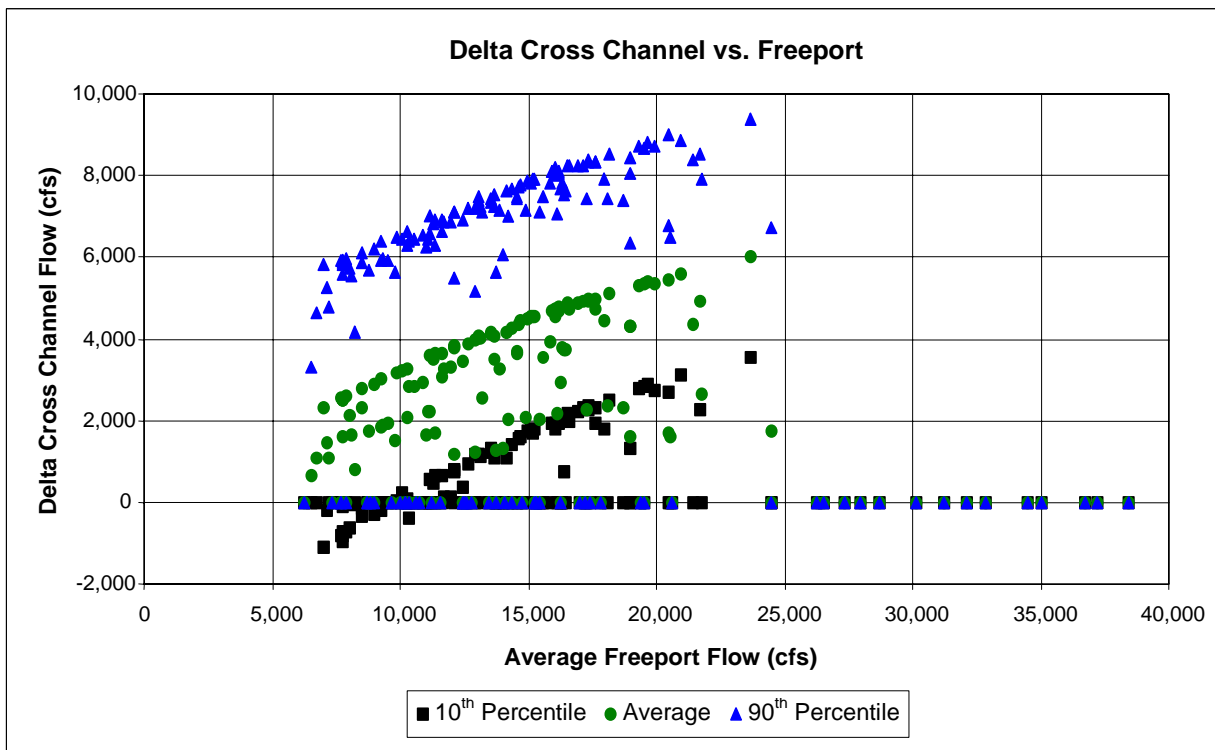


**Figure D-58a.** Distribution of Simulated Flows in the Delta Cross Channel and Georgiana Slough vs. Average Flow in the Sacramento River at Freeport, Water Years 1976–1991

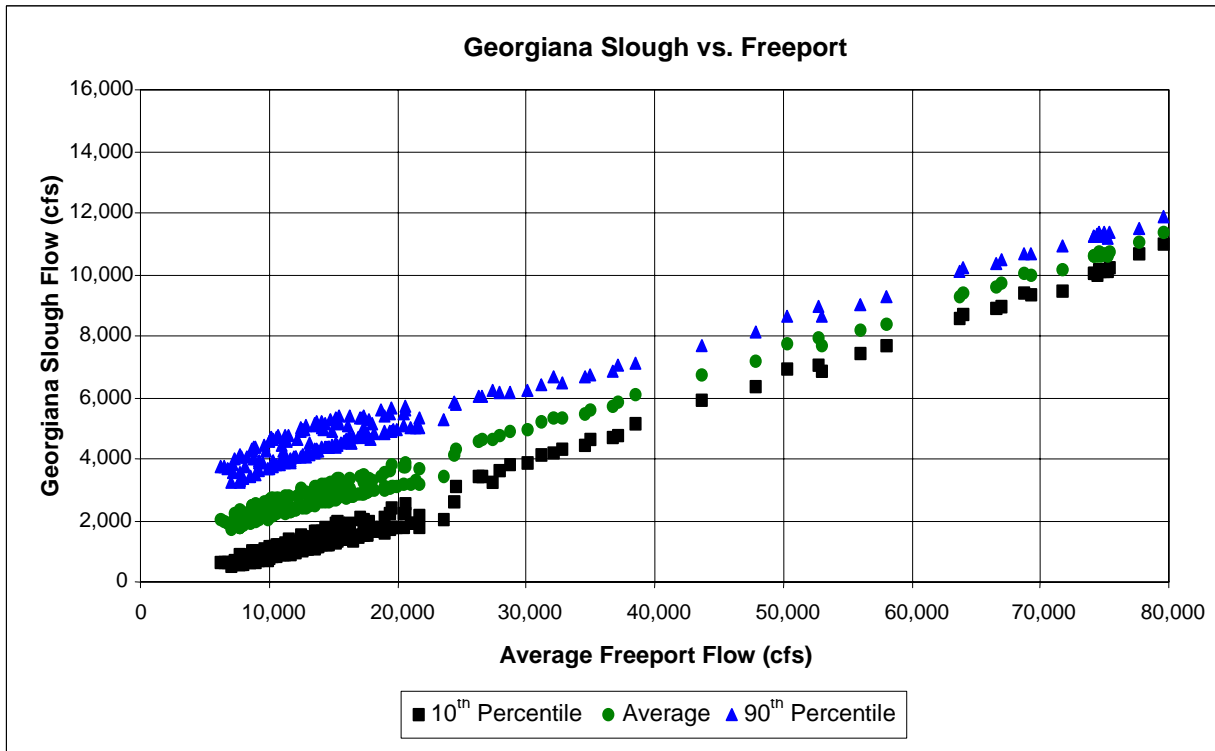


**Figure D-58b.** Distribution of Simulated Flows in the Delta Cross Channel and Georgiana Slough as a Percentage of Average Flow in the Sacramento River at Freeport, Water Years 1976–1991

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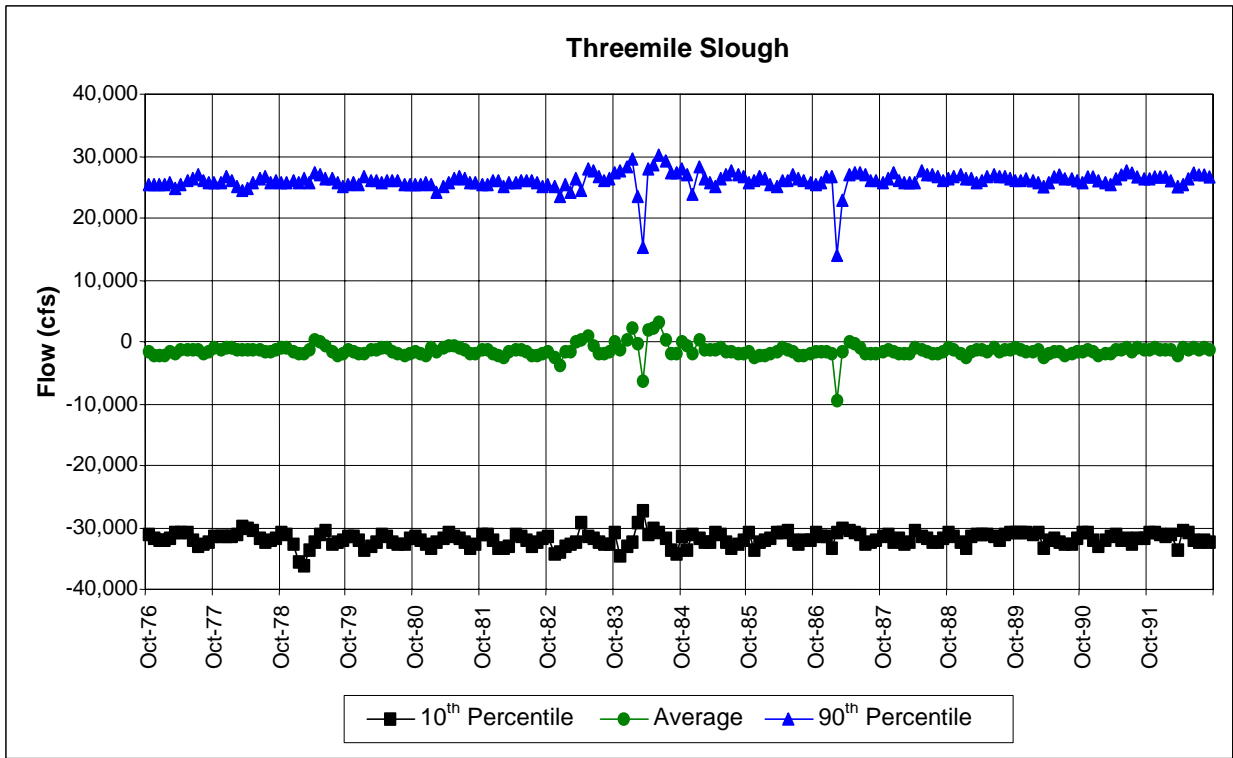


**Figure D-59a.** Distribution of Simulated Flow in the Delta Cross Channel vs. Average Flow in the Sacramento River at Freepport, Water Years 1976–1991

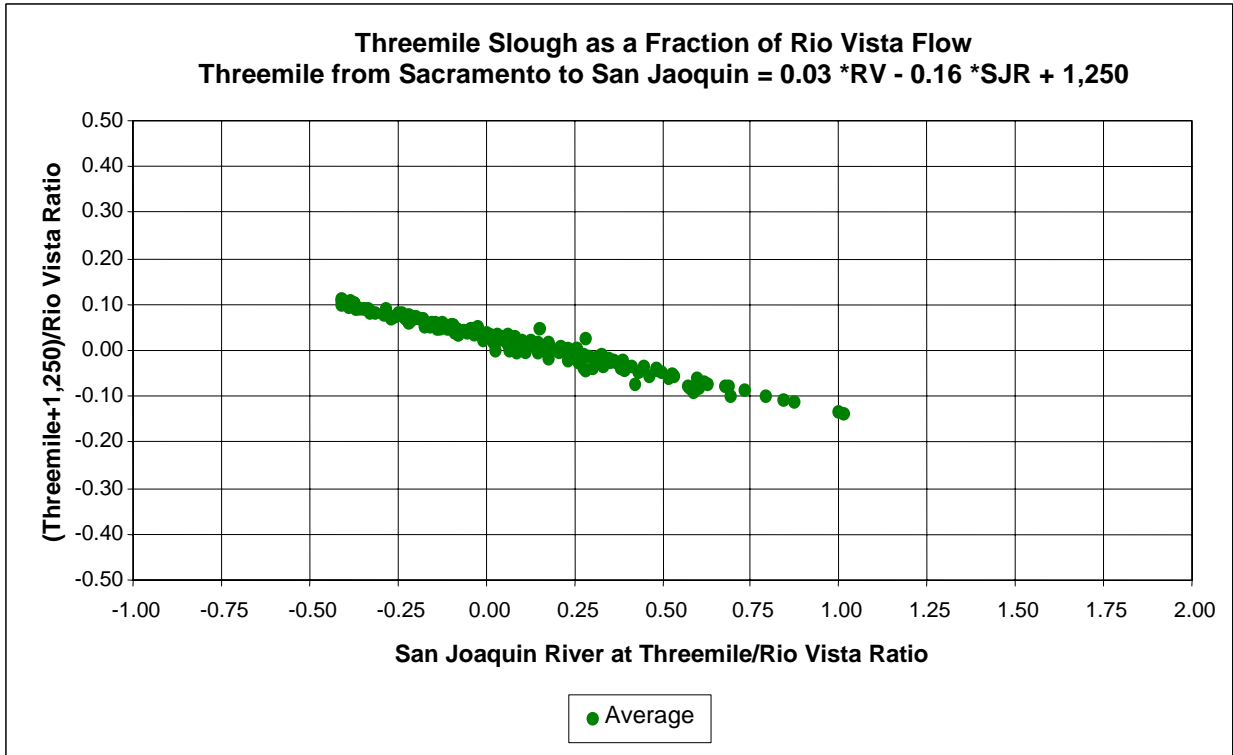


**Figure D-59b.** Distribution of Simulated Flow in Georgiana Slough vs. Average Flow in the Sacramento River at Freepport, Water Years 1976–1991

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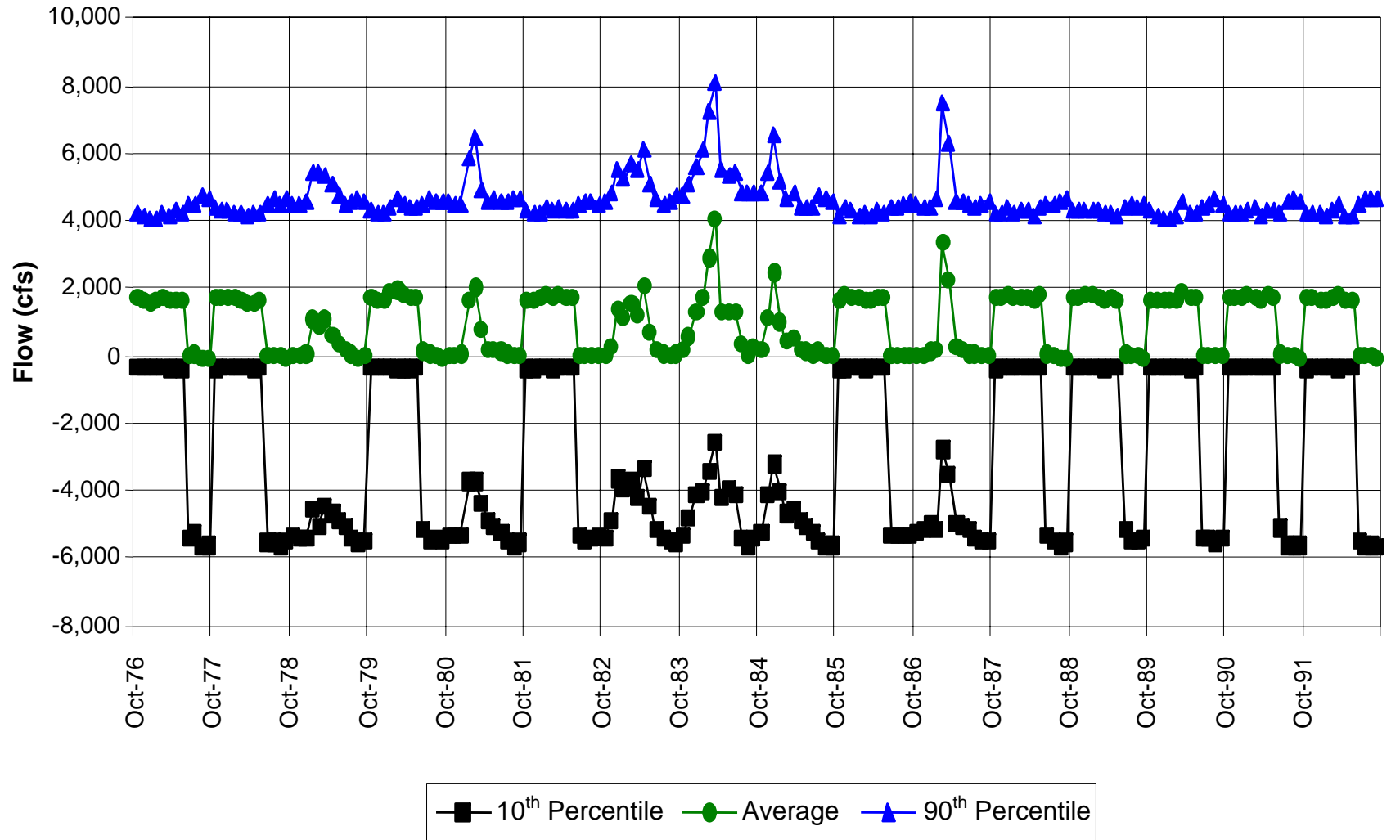
**Figure D-60a.** Distribution of Simulated Flow at Threemile Slough, Water Years 1976–1991



**Figure D-60b.** Threemile Slough as a Fraction of Average Rio Vista Flow, Water Years 1976–1991

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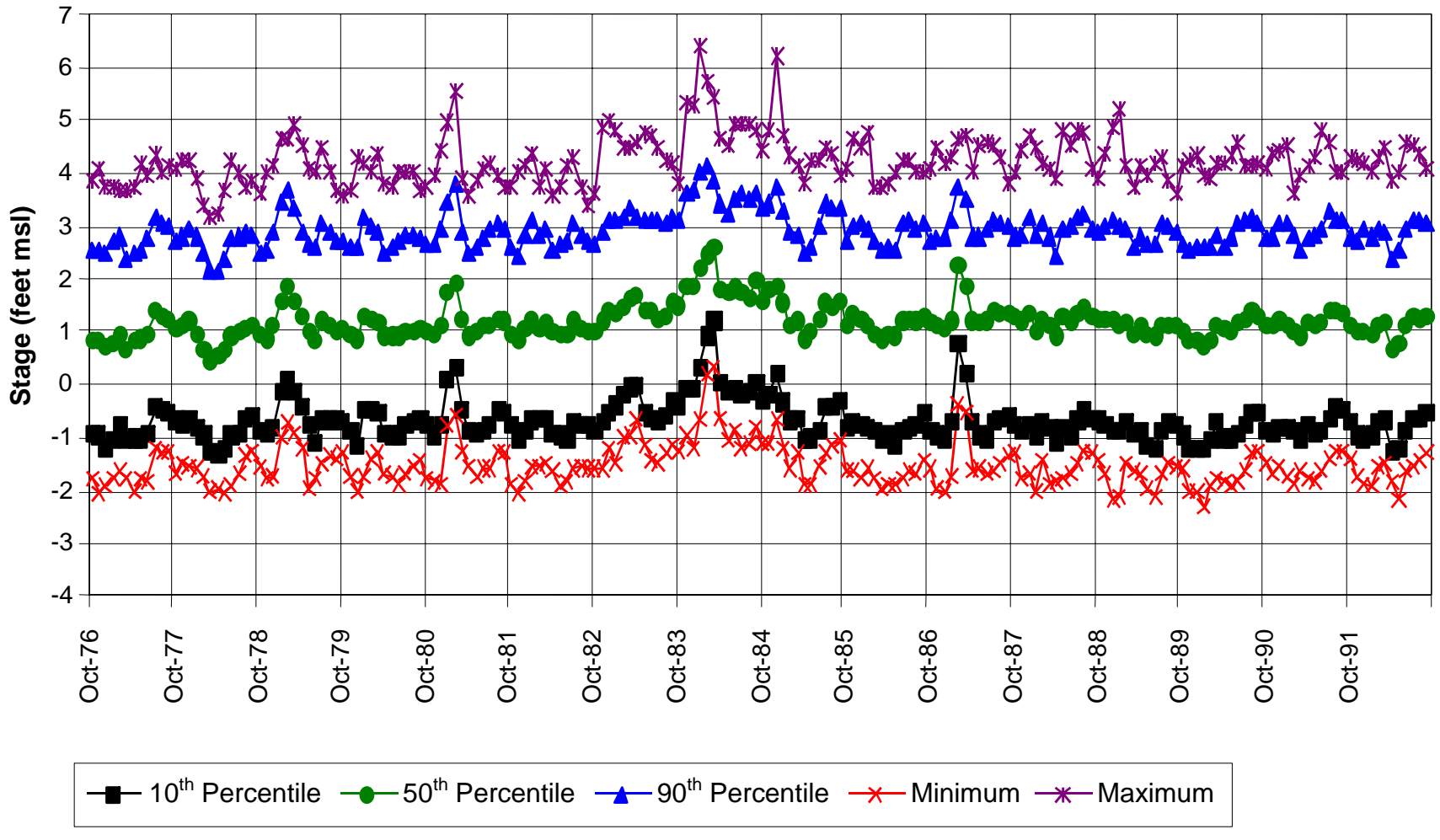
### Montezuma Slough Tidal Flow



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**Figure D-61**  
**Distribution of Simulated Flow at**  
**Montezuma Slough, Water Years 1976–1991**

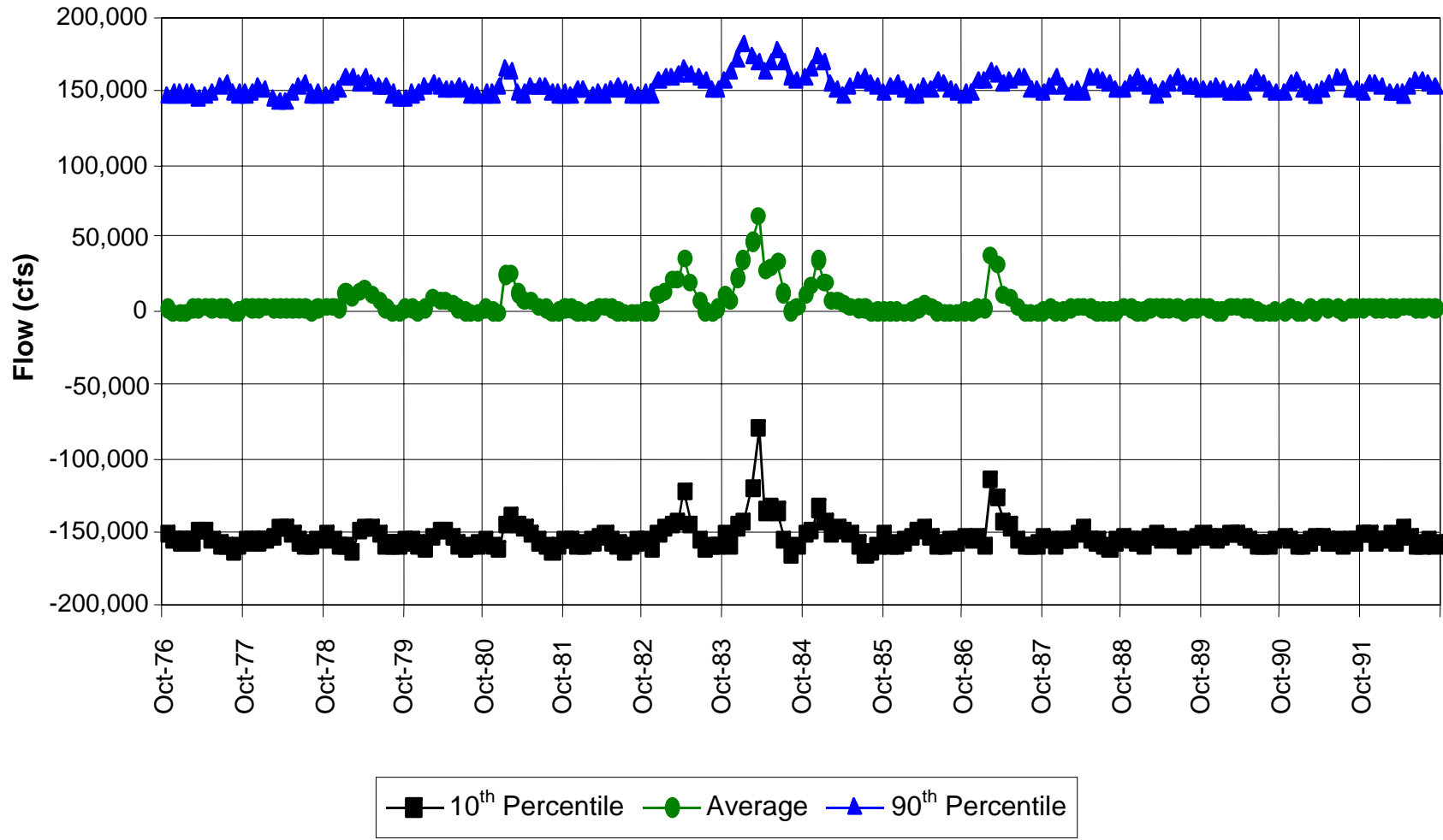
### Tidal Stages in the San Joaquin River at Antioch



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**Figure D-62**  
**Distribution of Simulated Tidal Stage in the San Joaquin River at Antioch, Water Years 1976–1991**

### Tidal Flows in the San Joaquin River at Antioch

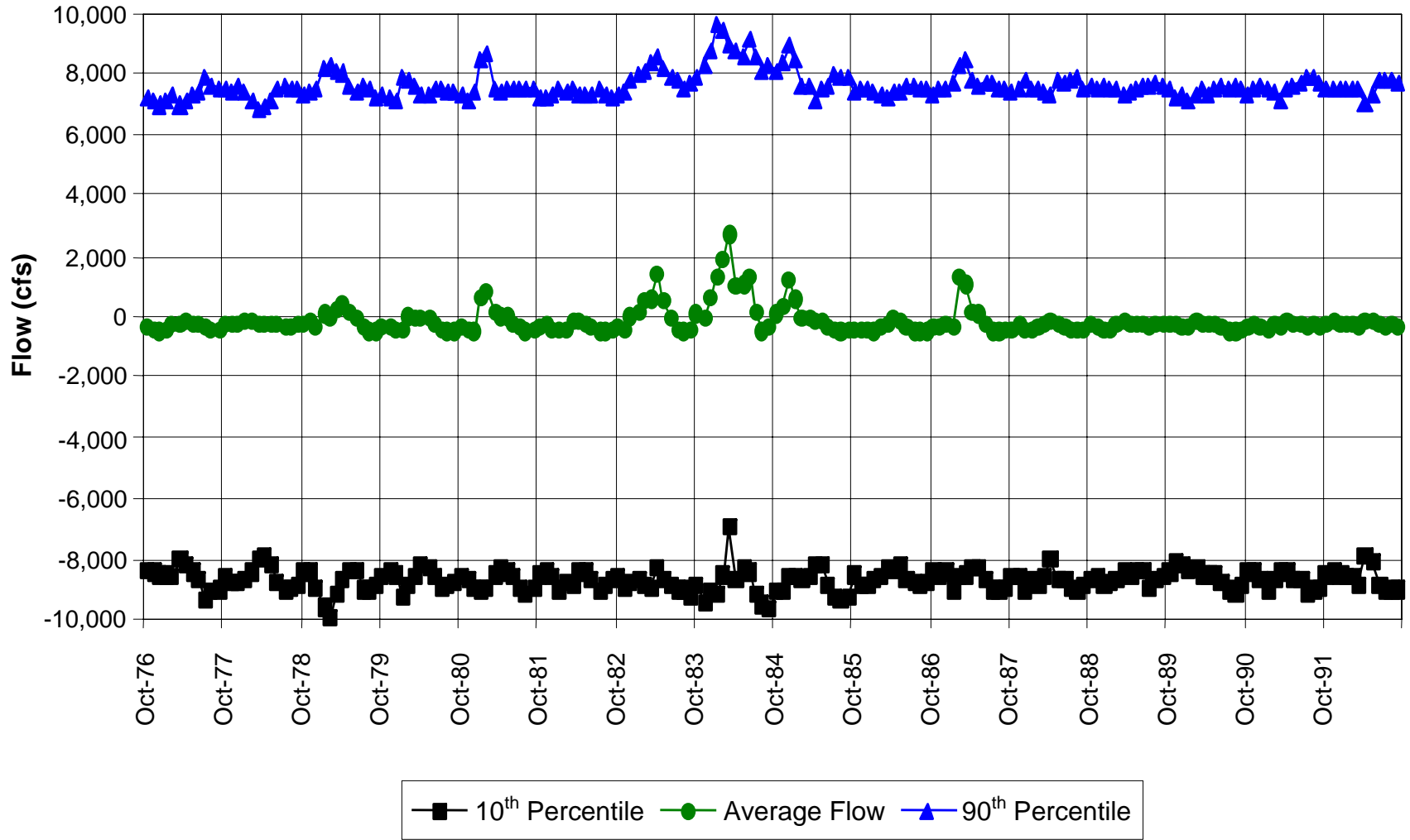


02053.02.101

**Figure D-63**  
**Distribution of Simulated Tidal Flow in the San Joaquin River at Antioch, Water Years 1976–1991**



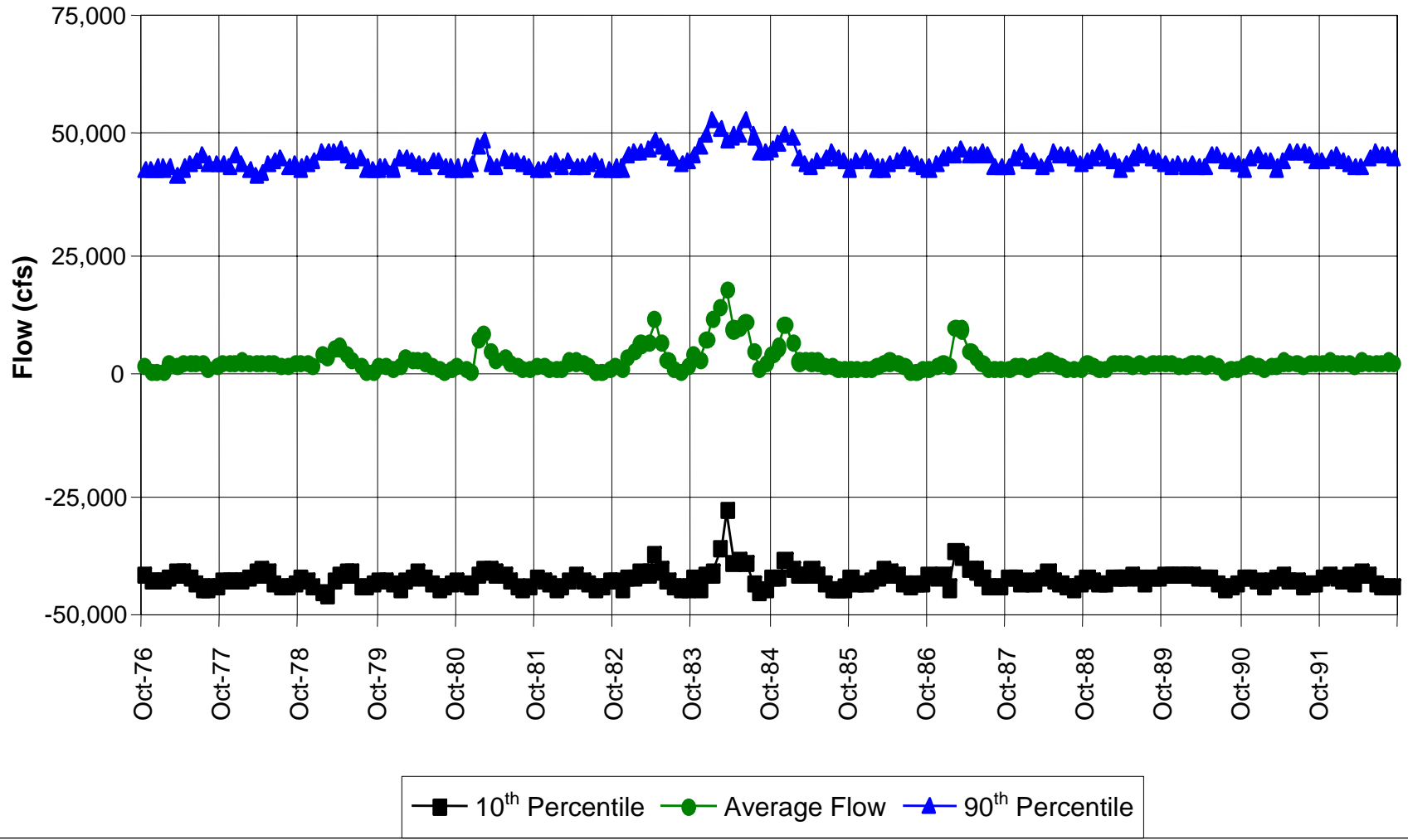
### Dutch Slough Tidal Flows



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**Figure D-64**  
**Distribution of Simulated Tidal Flow at Dutch Slough, Water Years 1976–1991**

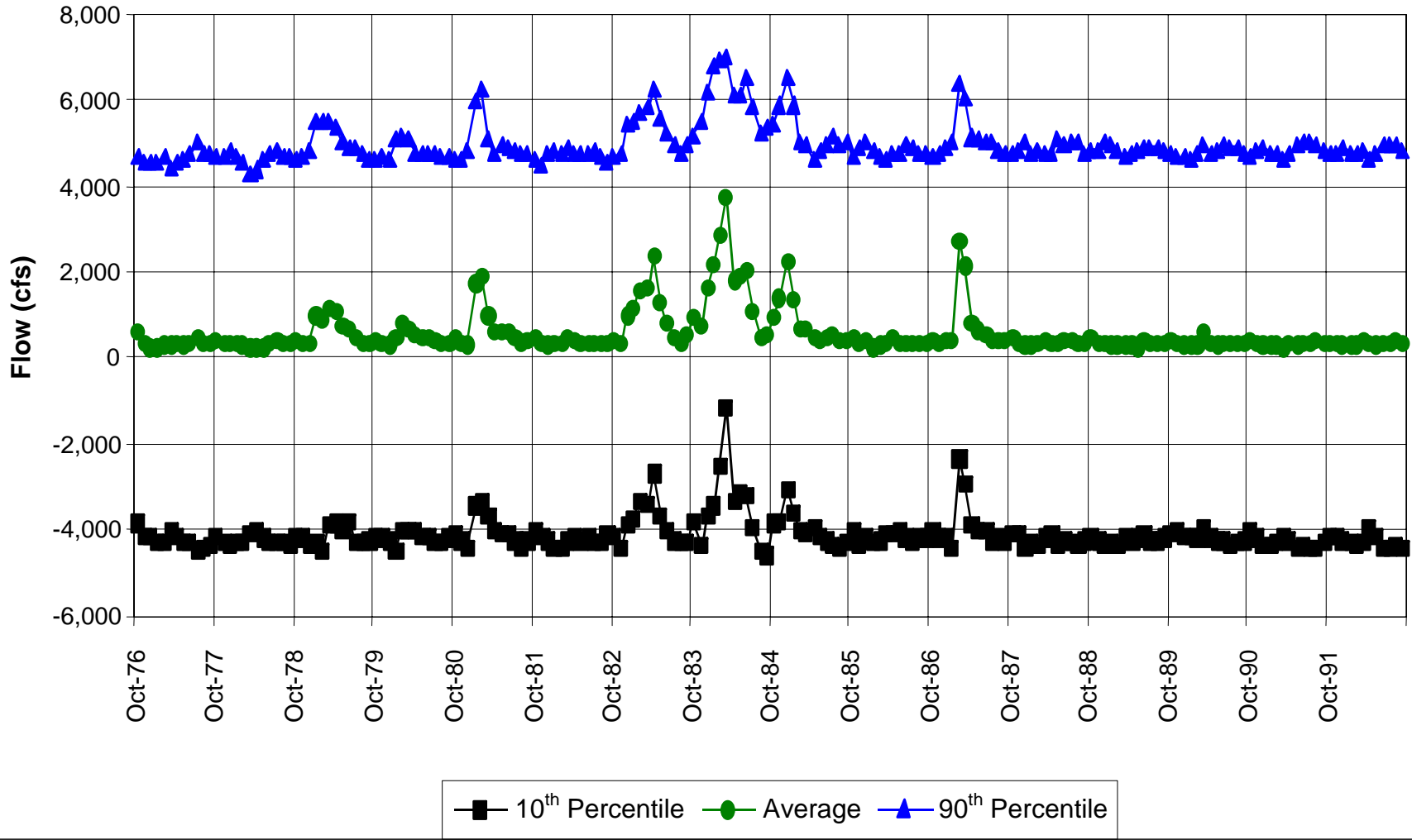
### False River Tidal Flow



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**Figure D-65**  
**Distribution of Simulated Tidal Flow in**  
**False River, Water Years 1976–1991**

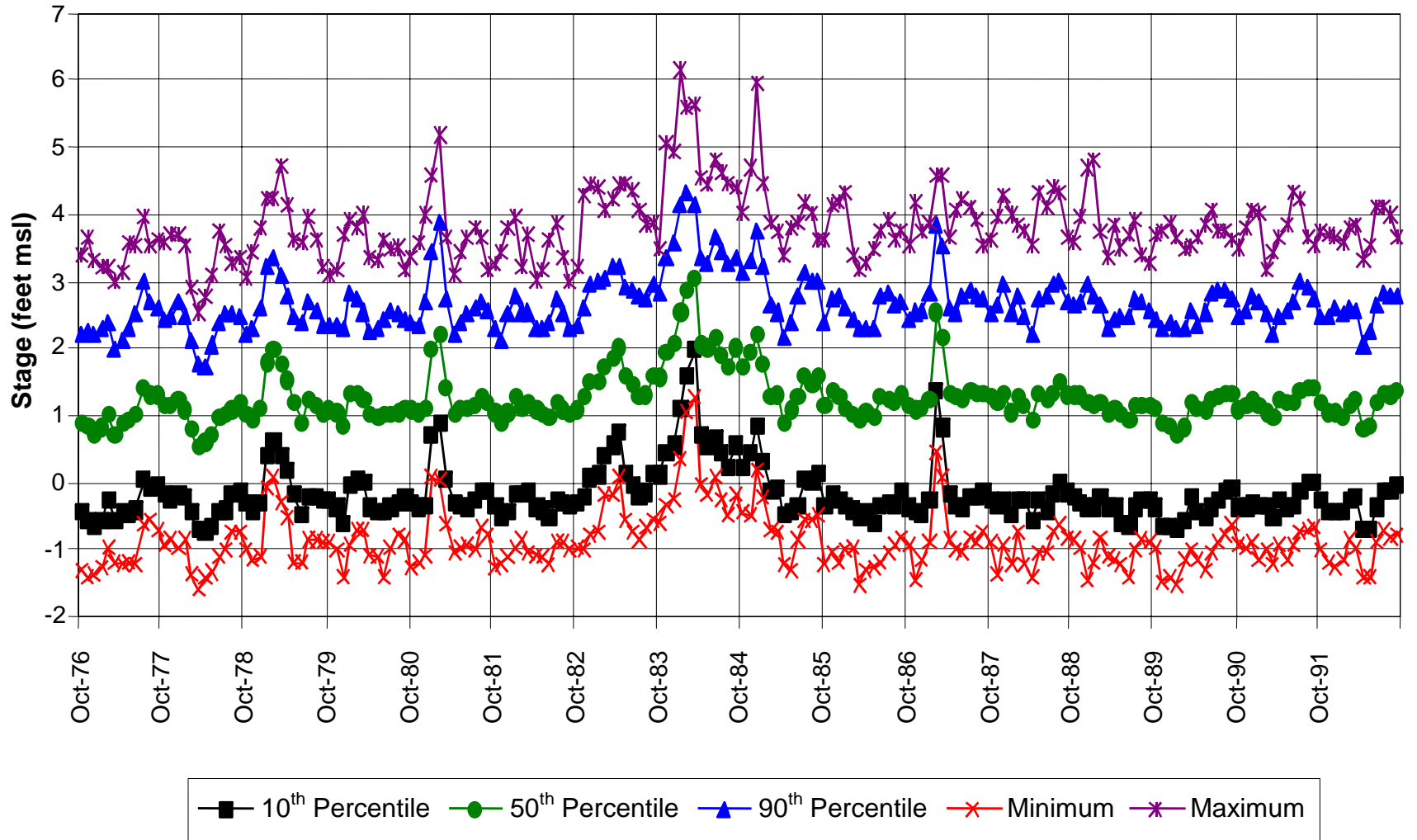
### Fisherman's Cut Tidal Flow



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**Figure D-66**  
**Distribution of Simulated Tidal Flow at Fisherman's Cut, Water Years 1976-1991**

### San Joaquin River at San Andreas Landing Tidal Stage

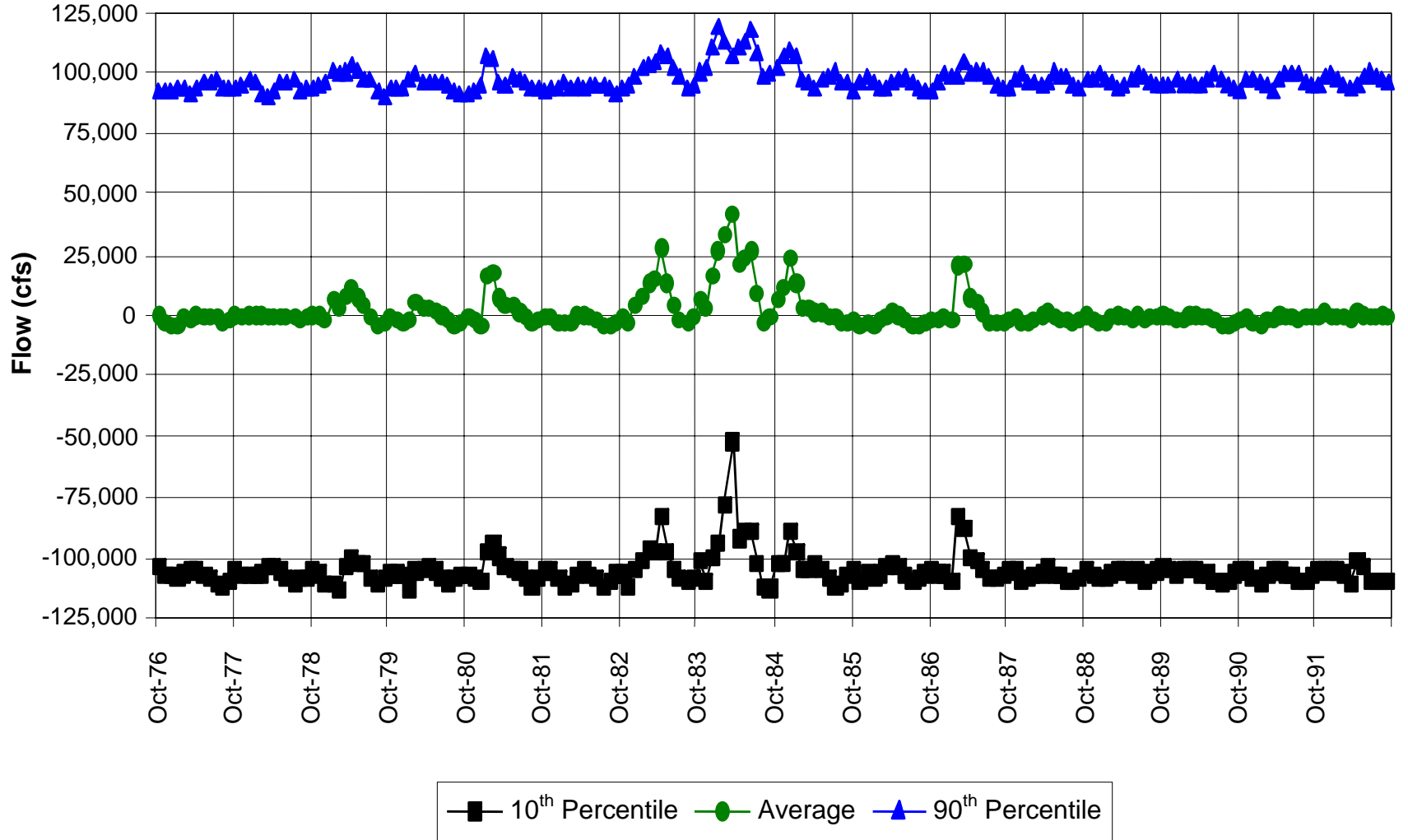


02053.02.101

Figure D-67

Distribution of Simulated Tidal Stage in the San Joaquin River at San Andreas Landing, Water Years 1976–1991

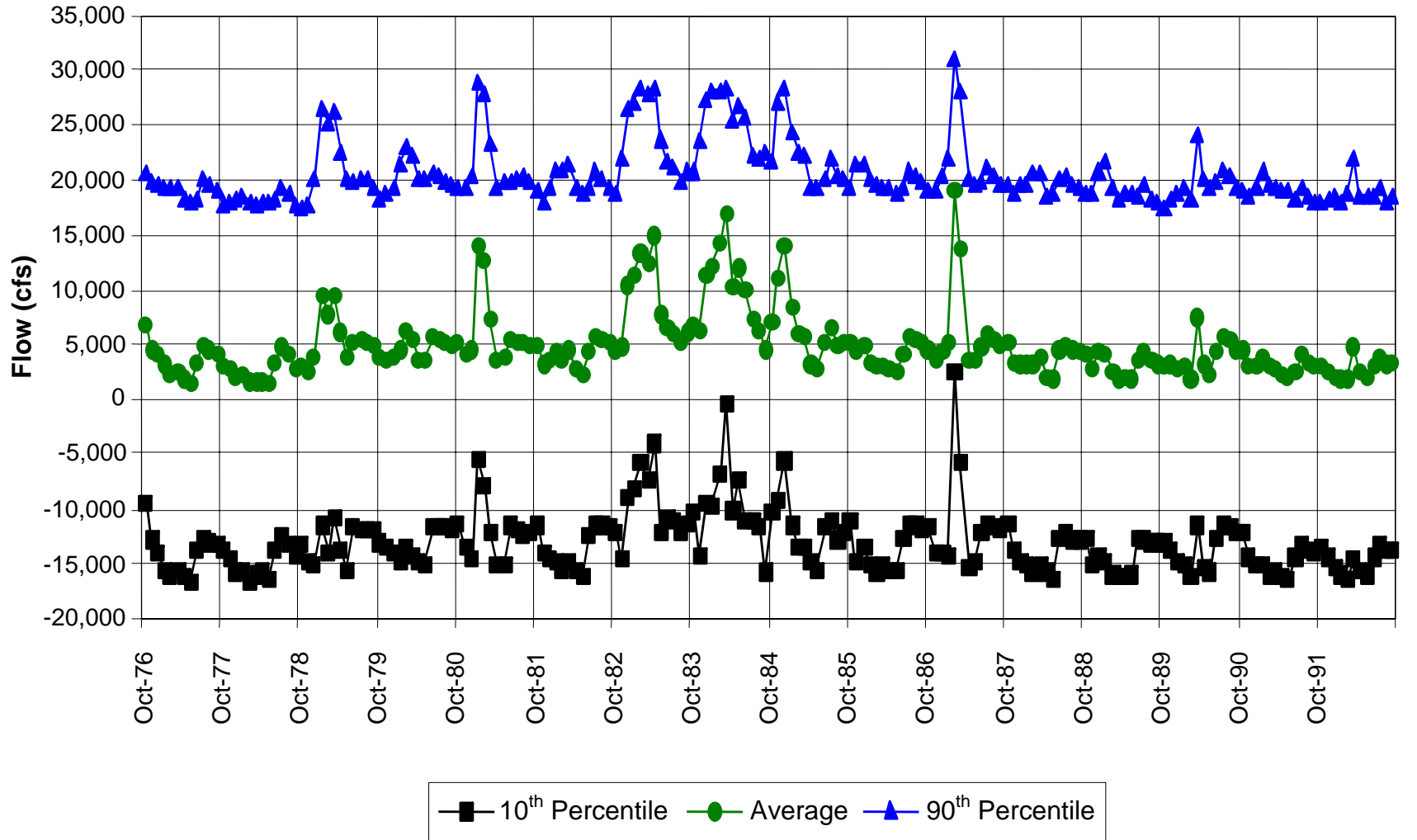
### San Joaquin River at San Andreas Landing Tidal Flow



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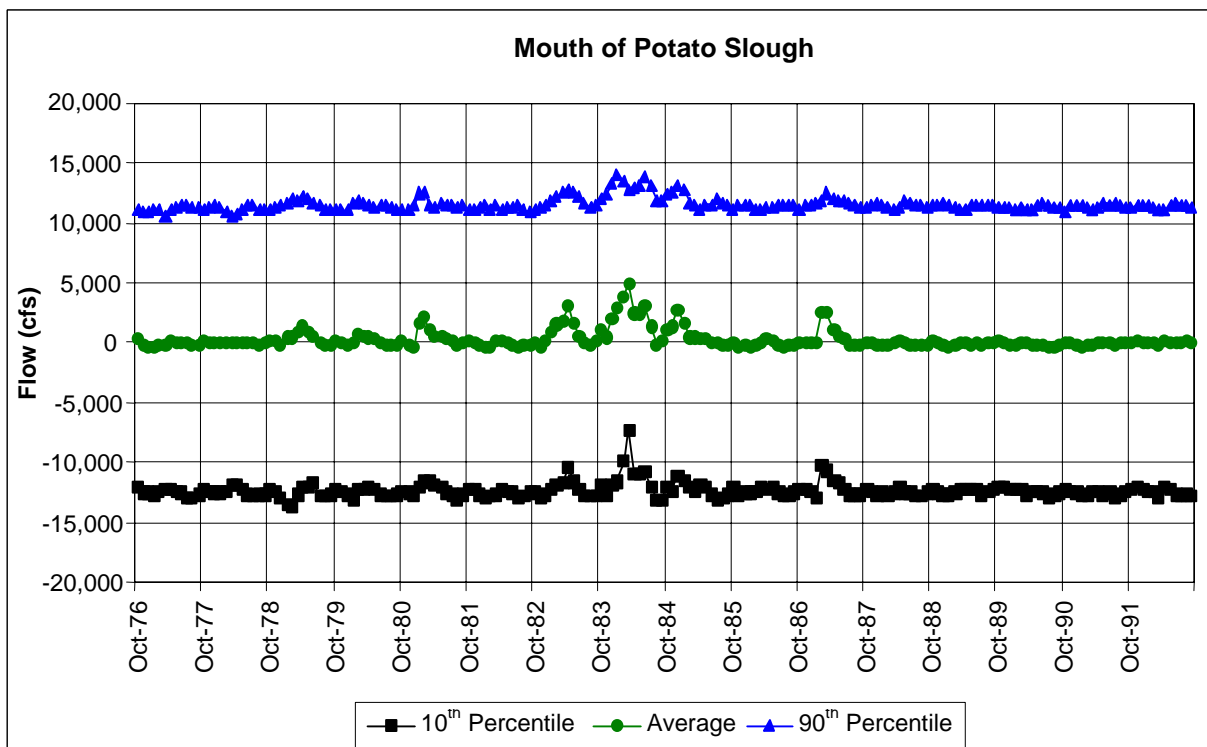
**Figure D-68**  
**Distribution of Simulated Tidal Flow in the San Joaquin River at San Andreas Landing, Water Years 1976–1991**

### Mouth of Mokelumne River Tidal Flow

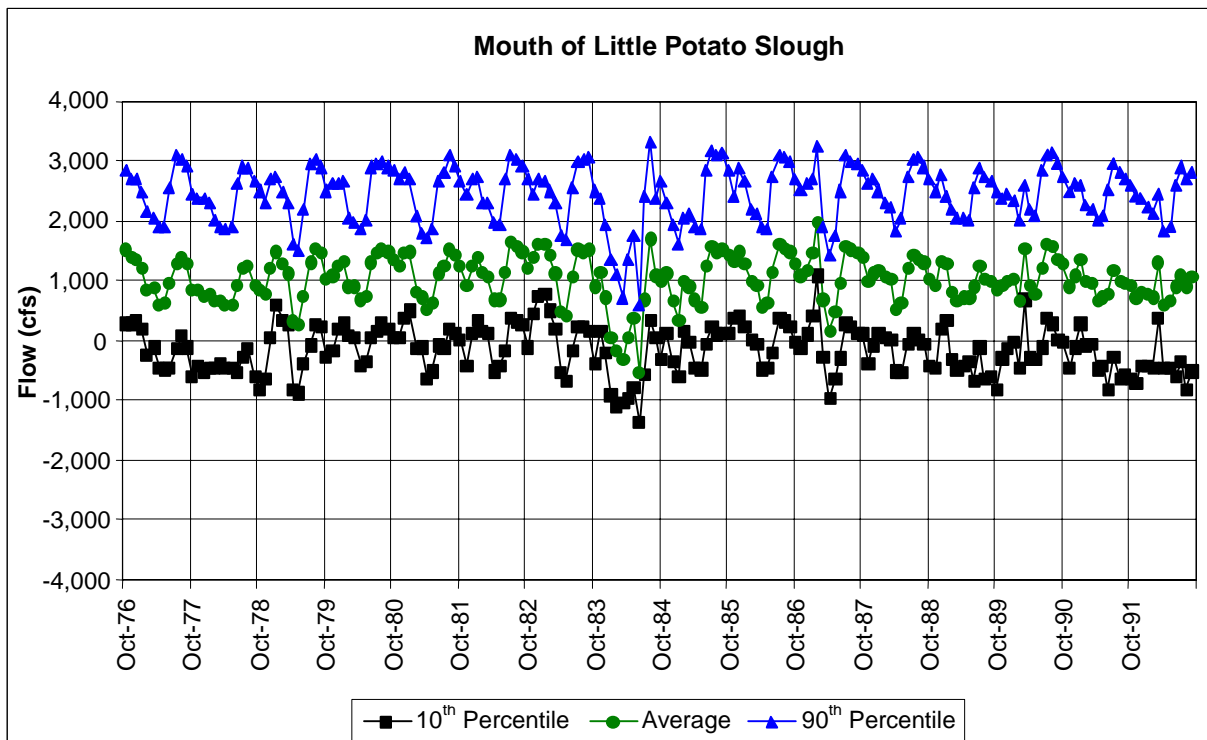


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**Figure D-69**  
**Distribution of Simulated Tidal Flow at the Mouth of the Mokelumne River, Water Years 1976–1991**



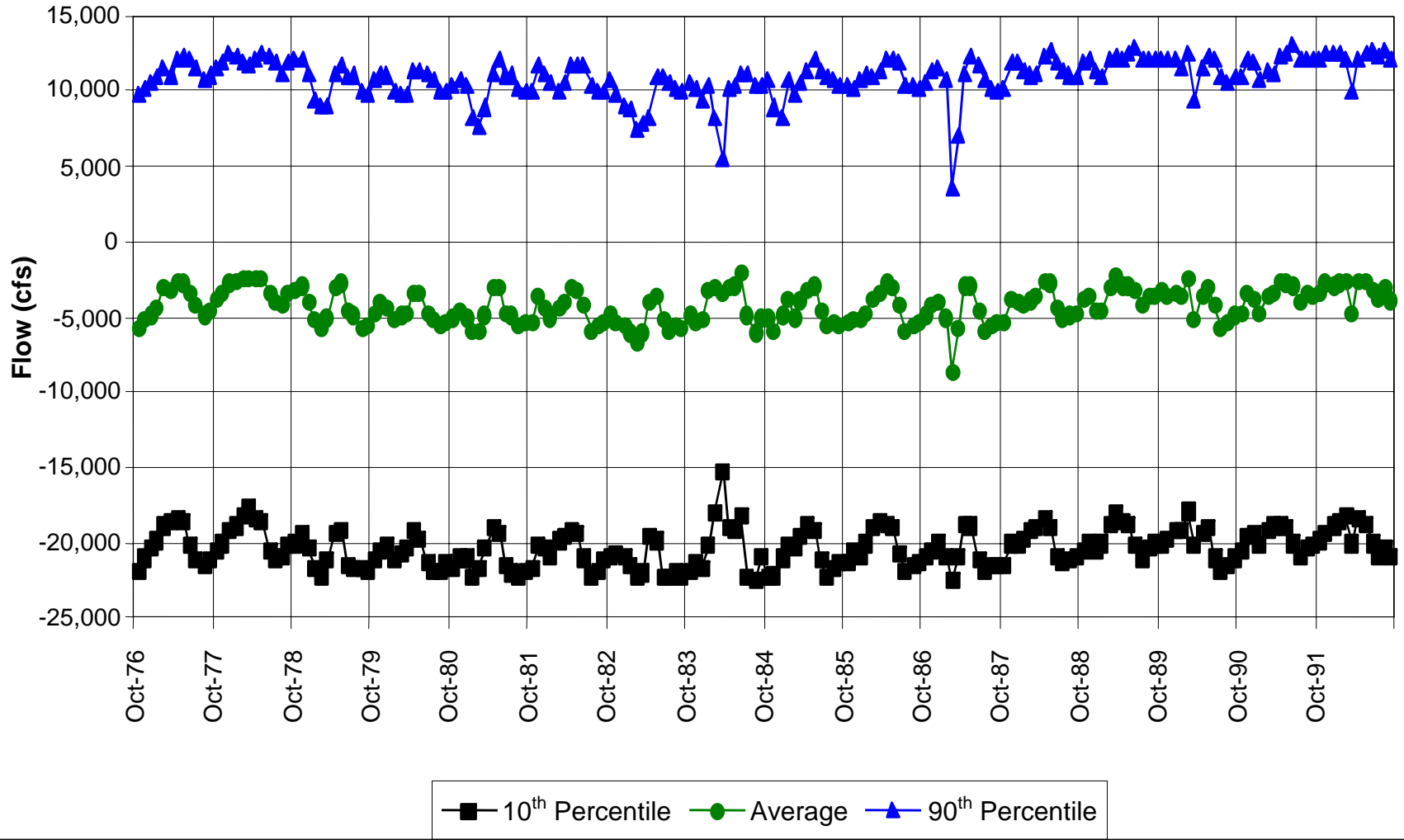
**Figure D-70a.** Distribution of Simulated Tidal Flow at the Mouth of Potato Slough, Water Years 1976–1991



**Figure D-70b.** Distribution of Simulated Tidal Flow at the Mouth of Little Potato Slough, Water Years 1976–1991

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### Mouth of Old River

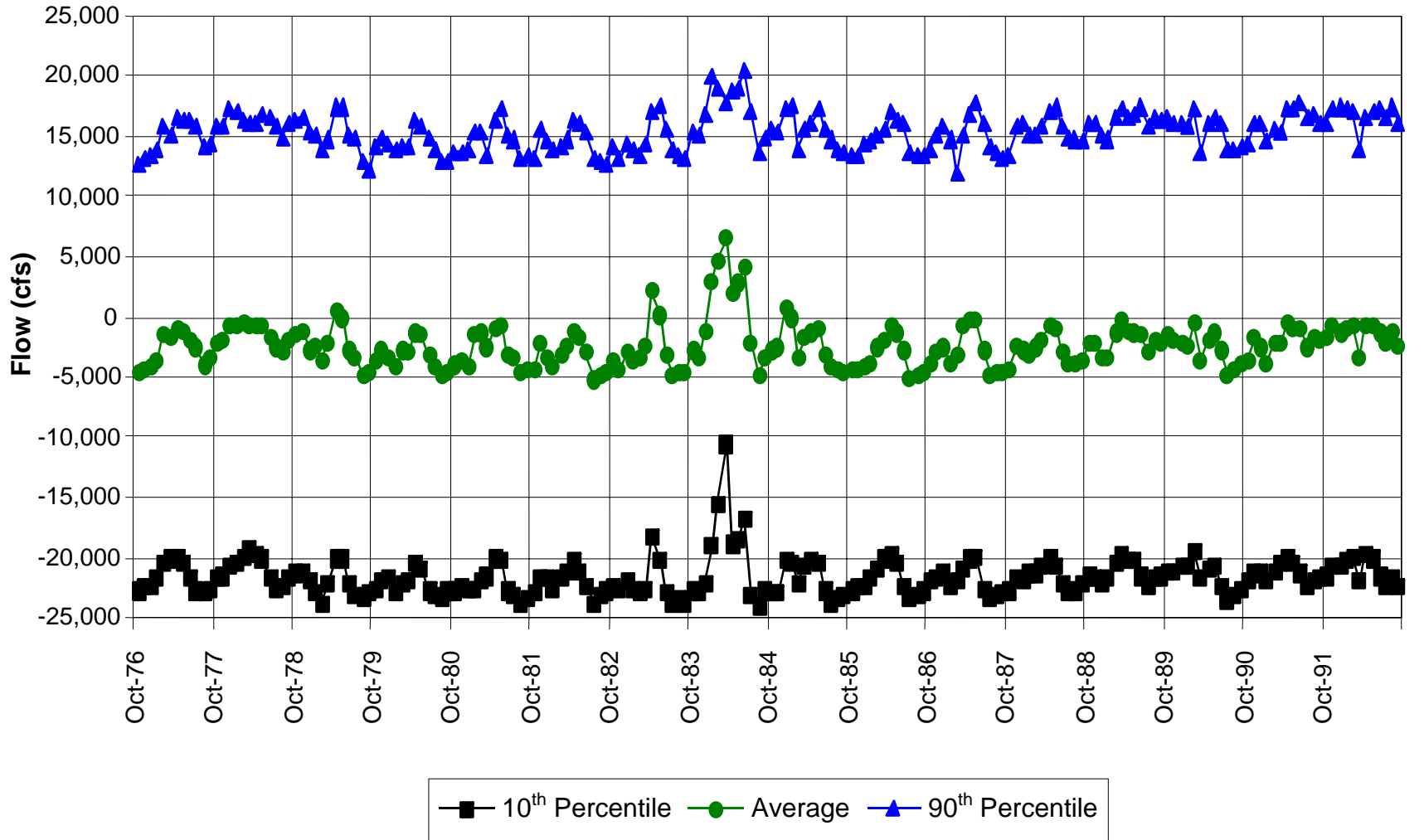


02053.02.101

**Figure D-71**  
**Distribution of Simulated Tidal Flow at the Mouth of Old River, Water Years 1976–1991**



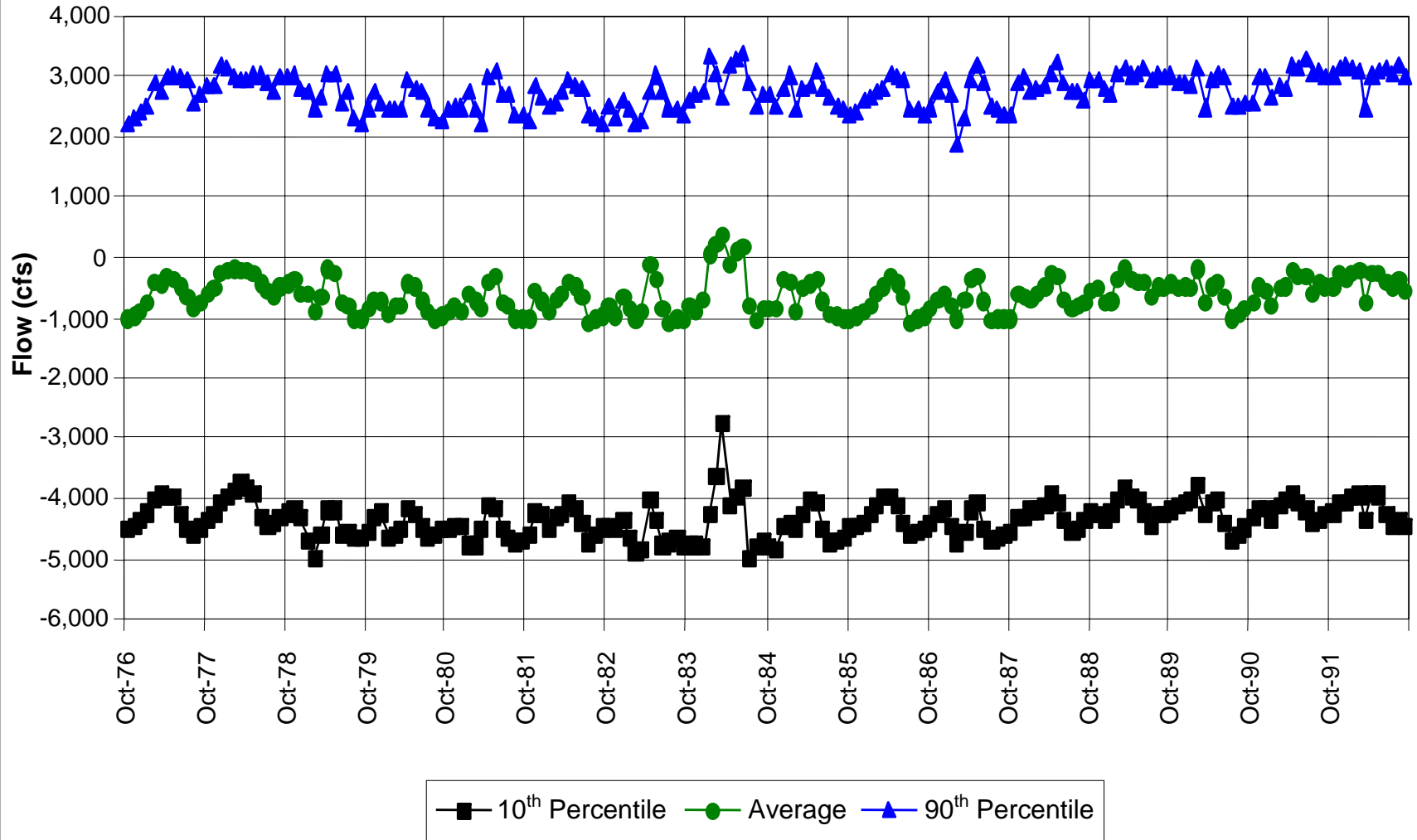
### Mouth of Middle River



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**Figure D-72**  
**Distribution of Simulated Tidal Flow at the Mouth of Middle River, Water Years 1976–1991**

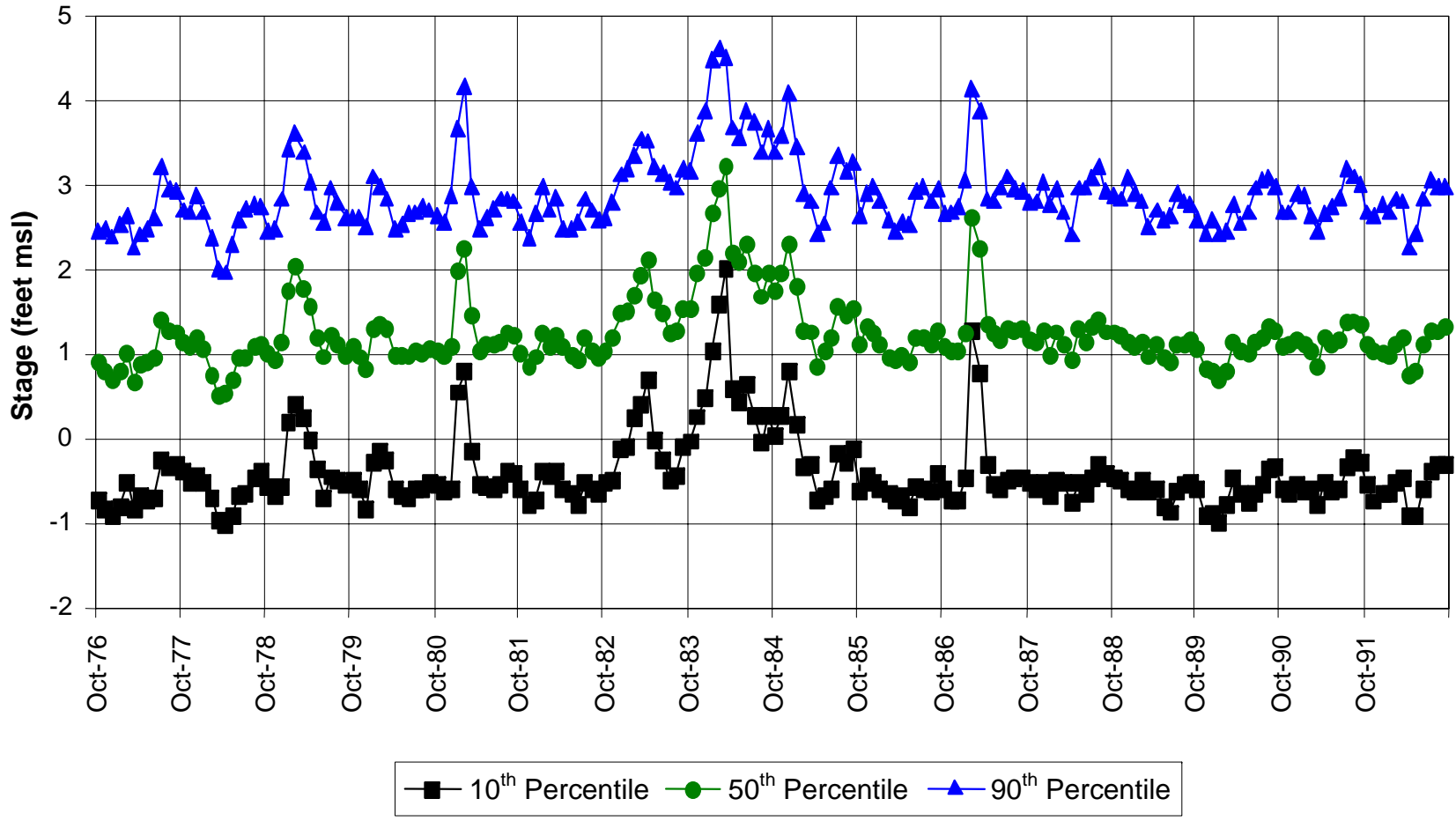
### Turner Cut



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**Figure D-73**  
**Distribution of Simulated Tidal Flow at Turner Cut, Water Years 1976–1991**

### San Joaquin River at the Stockton Deep Water Ship Channel

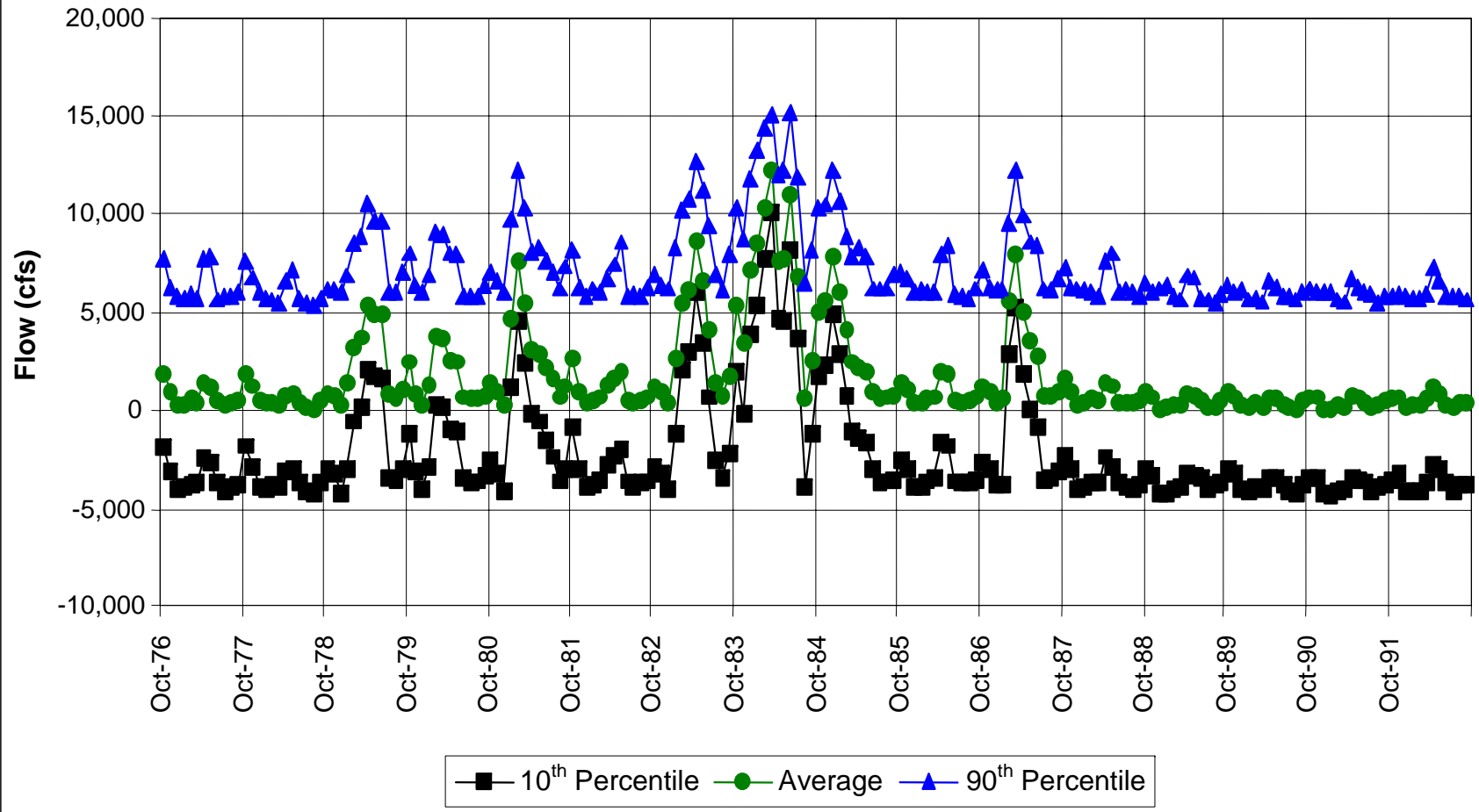


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Figure D-74

Distribution of Simulated Tidal Stage in the San Joaquin River at Stockton (Rough & Ready Island), Water Years 1976–1991

### San Joaquin River at the Stockton Deep Water Ship Channel

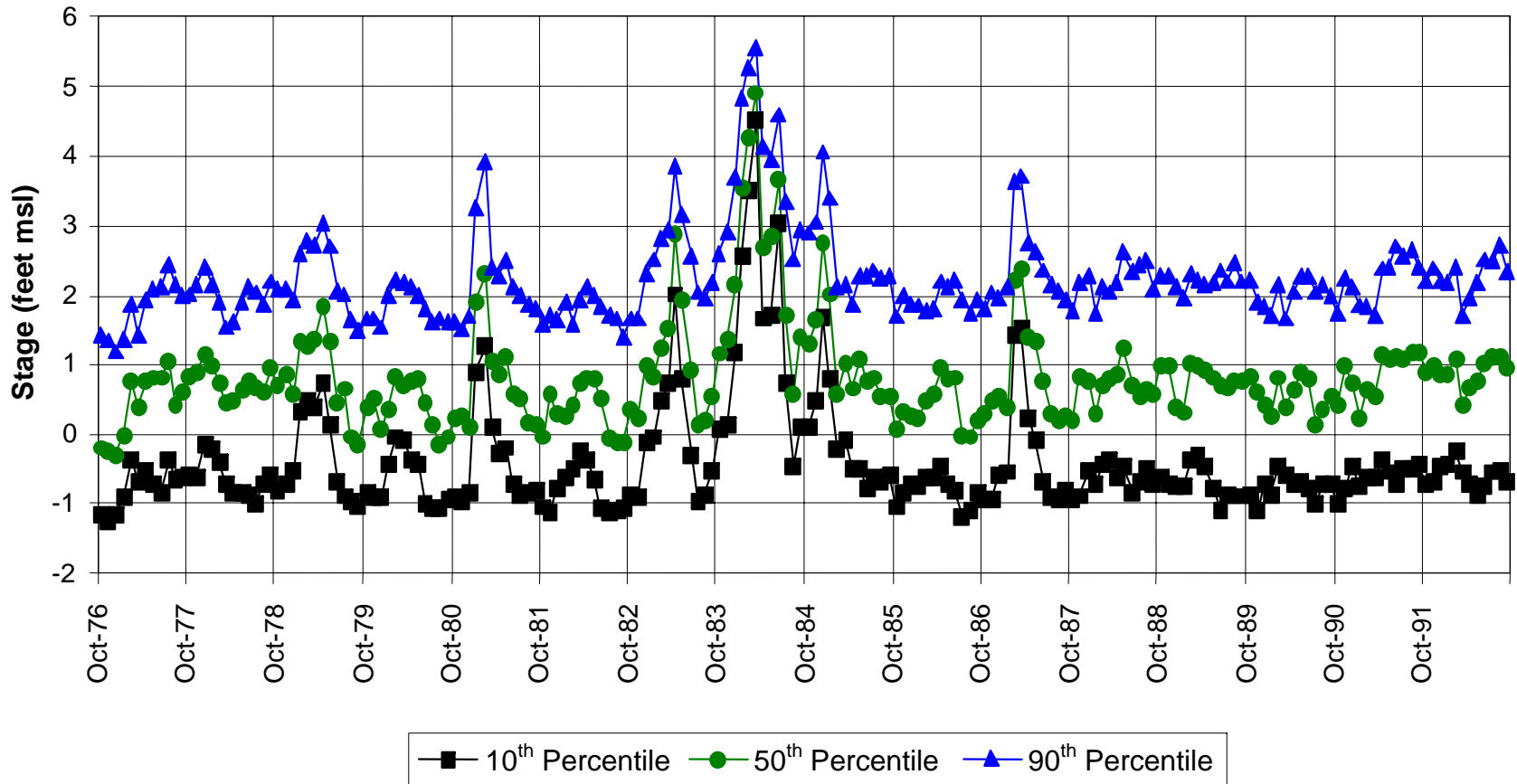


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**Figure D-75**

**Distribution of Simulated Tidal Flow in the San Joaquin River at Stockton (Rough & Ready Island), Water Years 1976–1991**

### Head of Old River

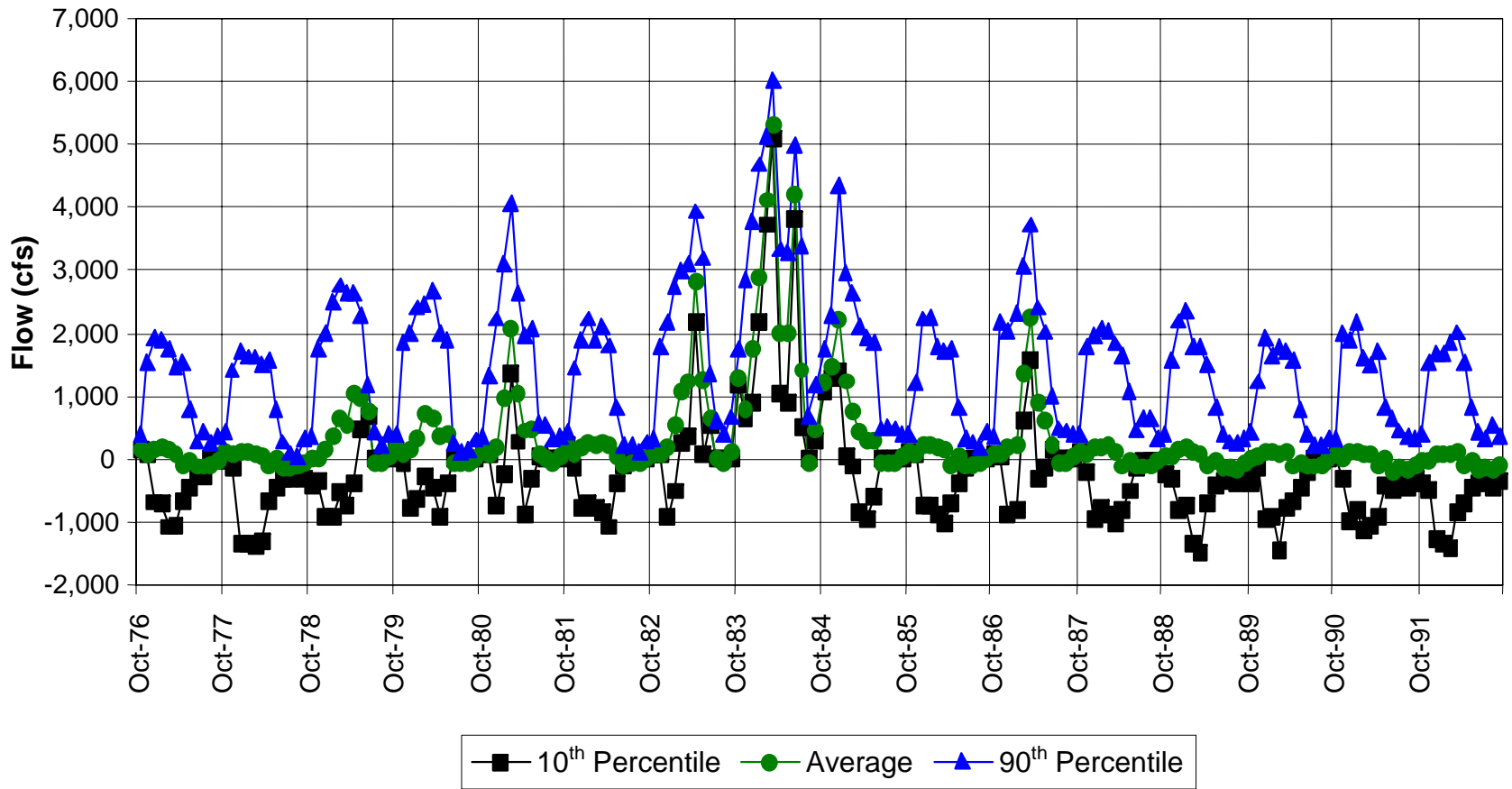


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**Figure D-76**

**Distribution of Simulated Tidal Stage at the Head of Old River, Water Years 1976–1991**

### Head of Old River

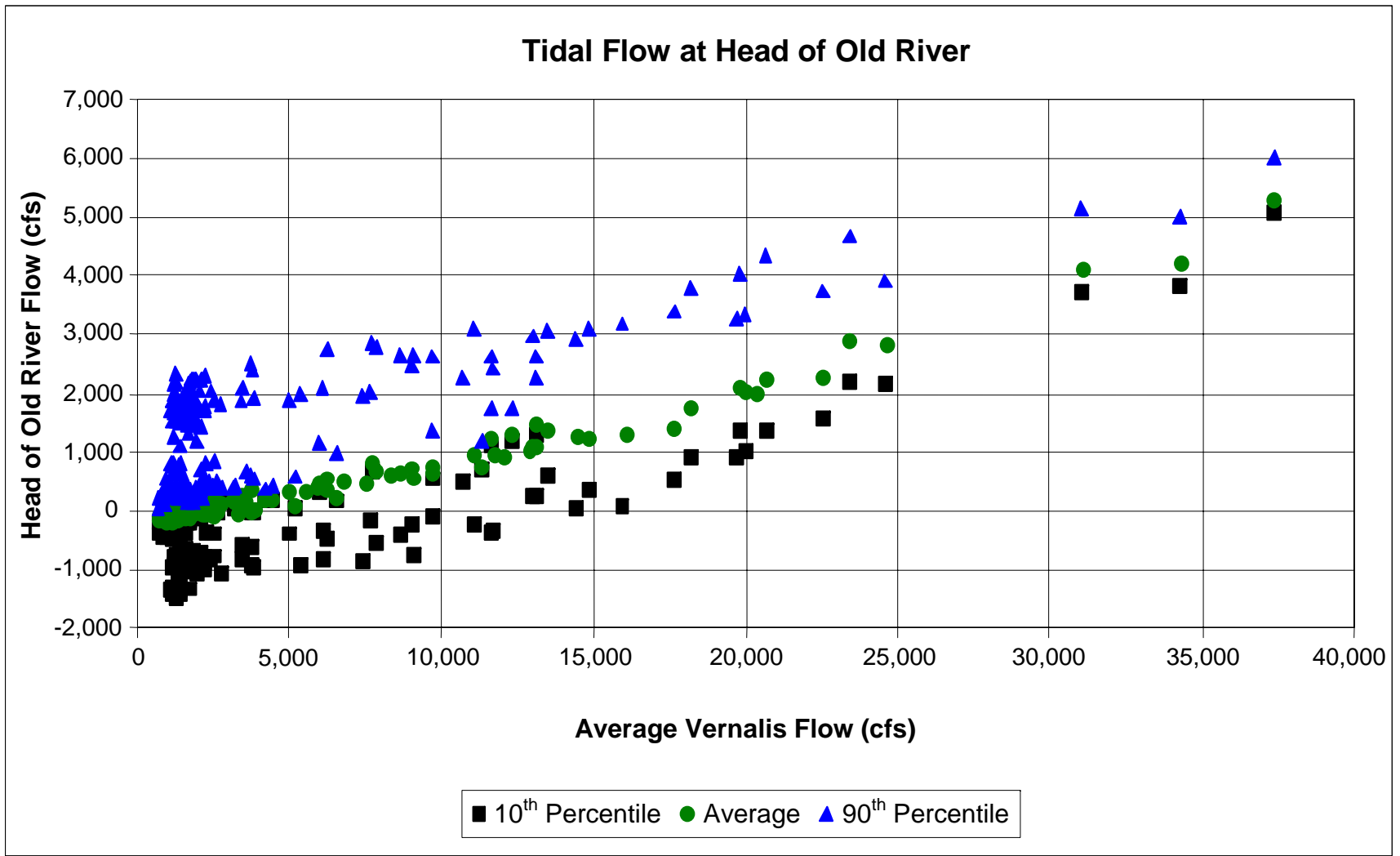


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**Figure D-77**

**Distribution of Simulated Tidal Flow at the Head of Old River, Water Years 1976–1991**

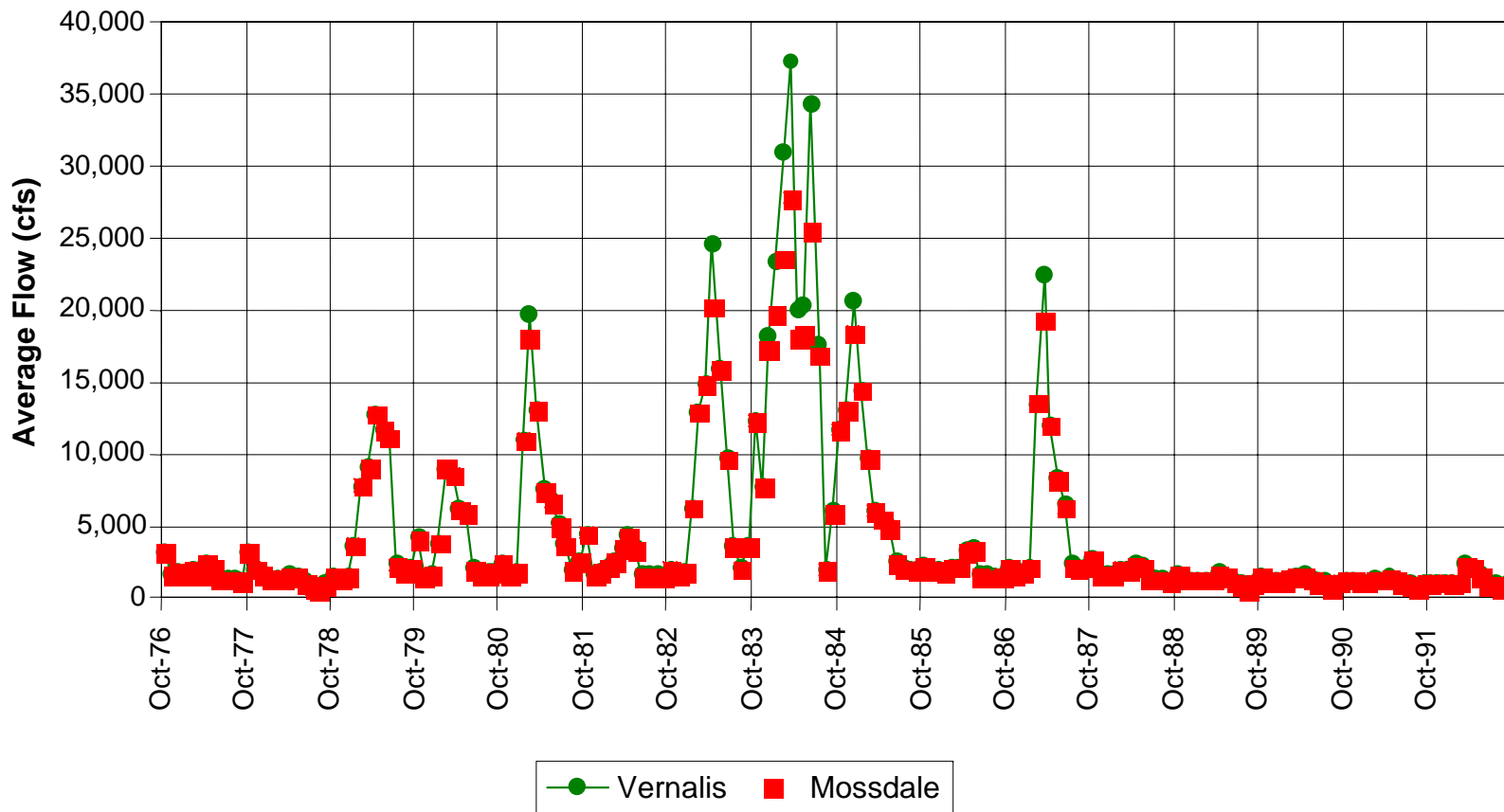
02053.02.101



**Figure D-78**

**Distribution of Simulated Tidal Flow at the Head of Old River vs. San Joaquin River at Vernalis Flow, Water Years 1976–1991**

### San Joaquin River at Vernalis



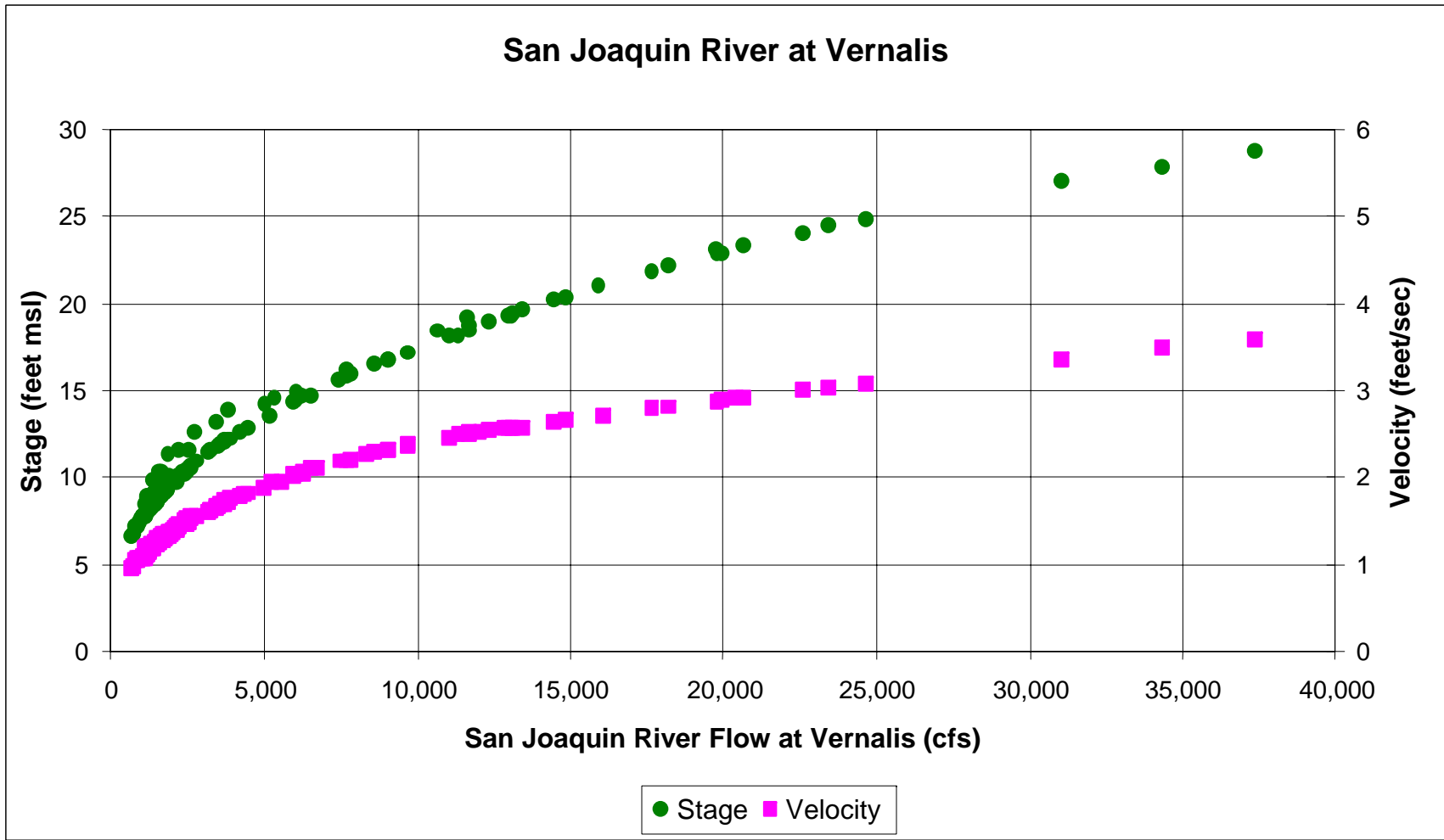
02053.02.101

**Figure D-79**

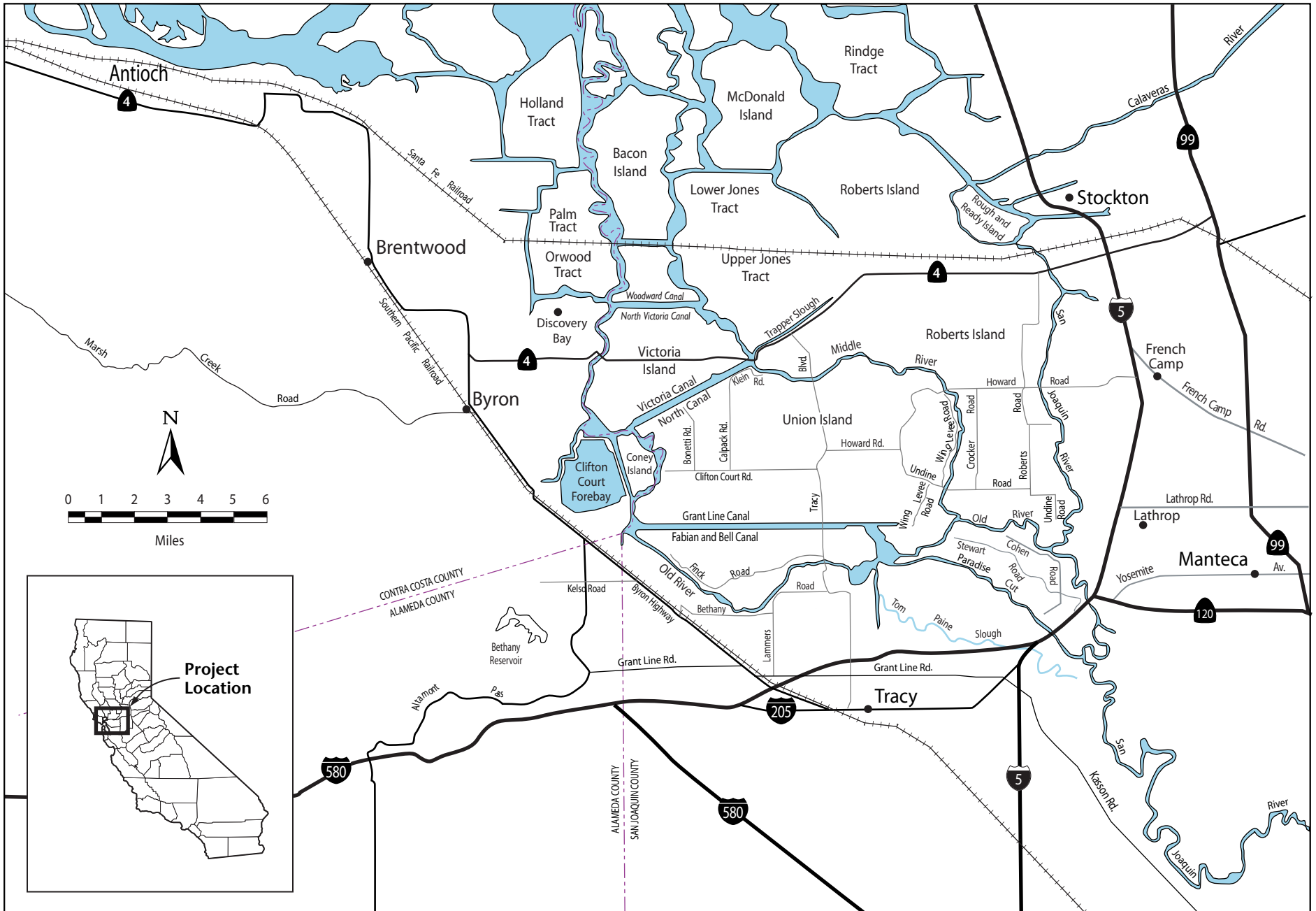
**Simulated Monthly Average Flow in the San Joaquin River at Vernalis and Mosssdale, Water Years 1976–1991**



02053.02.101

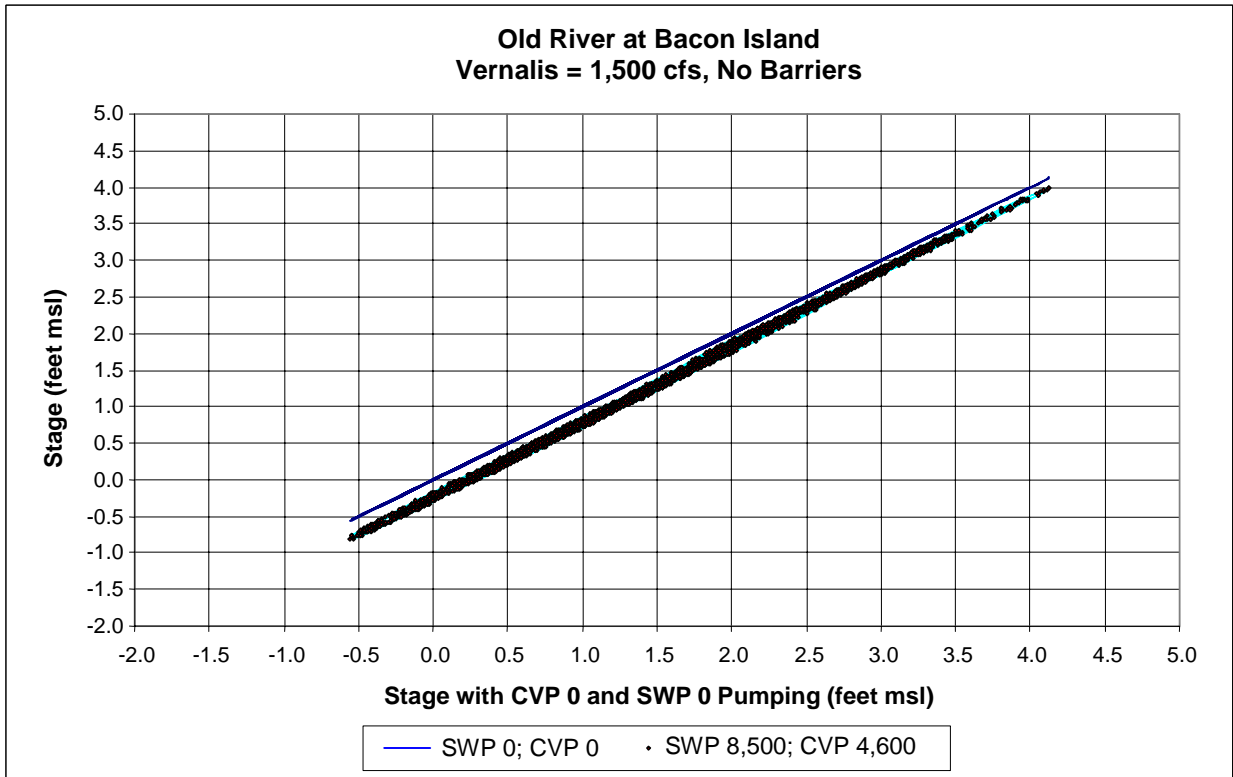
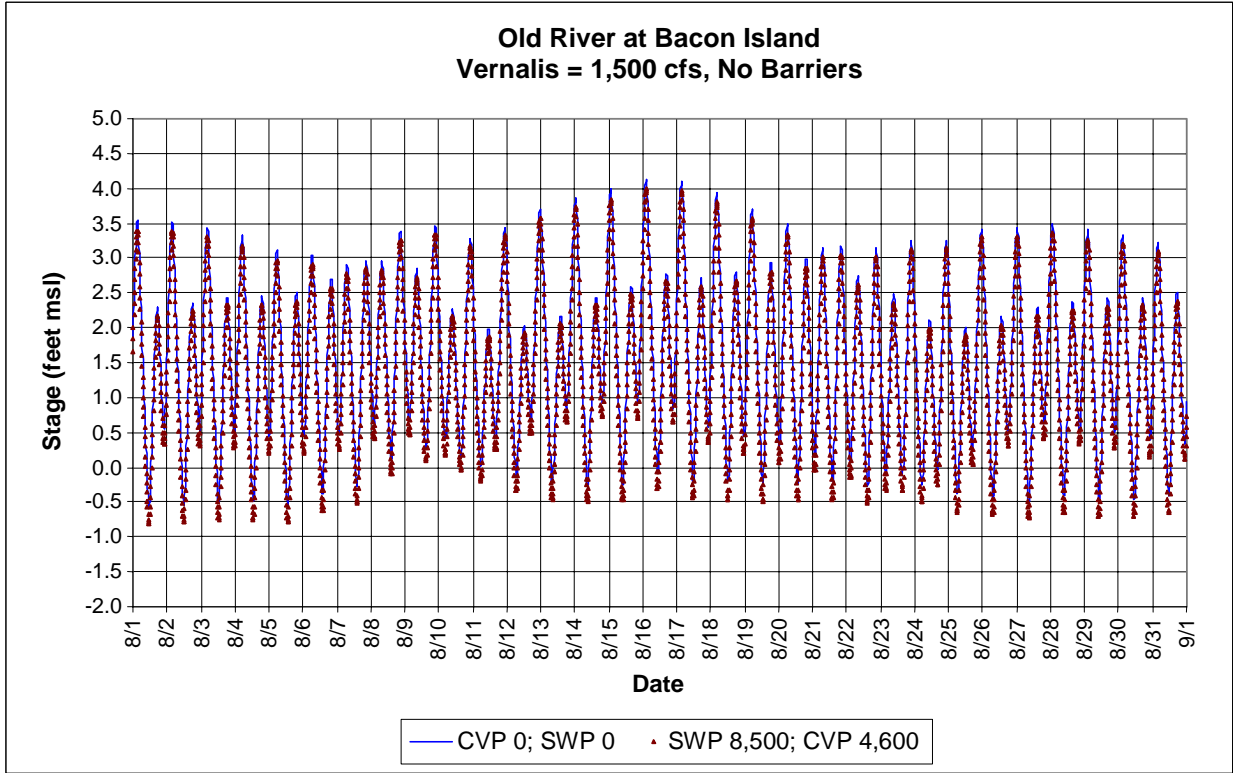


**Figure D-80**  
**Simulated Stage and Velocity in the**  
**San Joaquin River at Vernalis, Water Years 1976–1991**

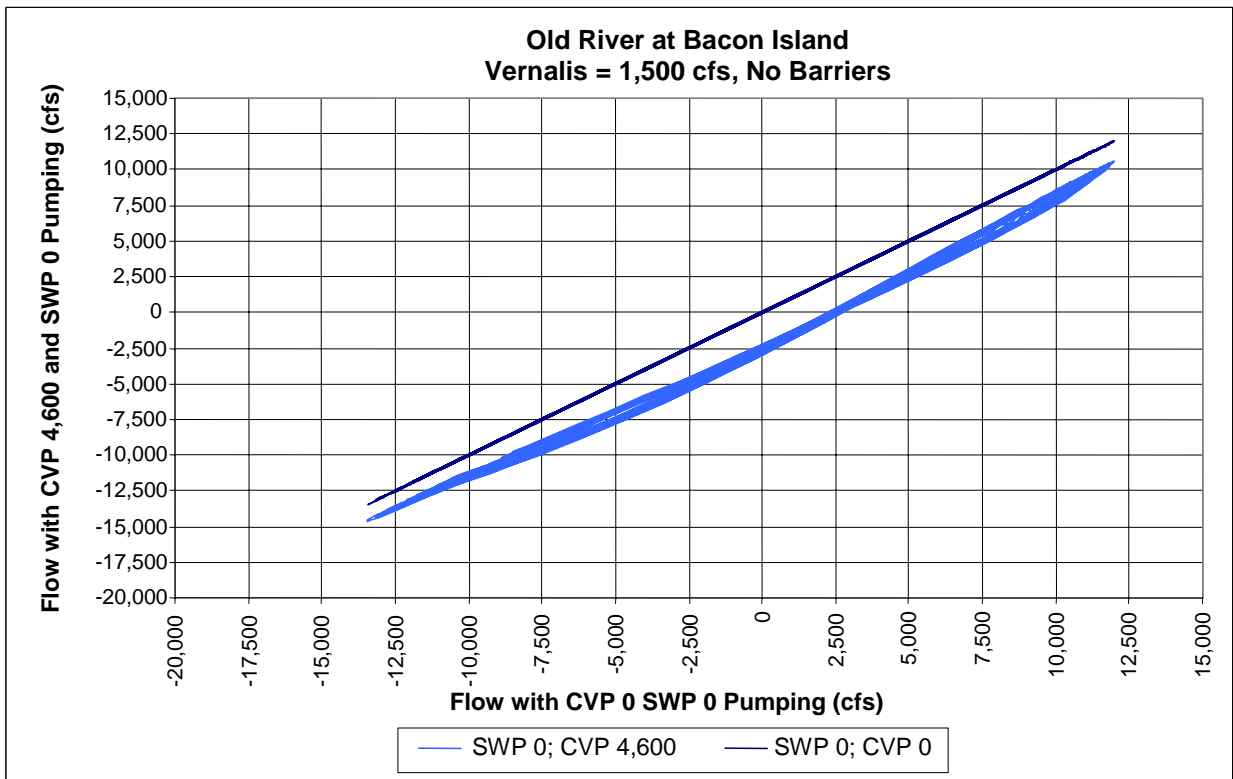
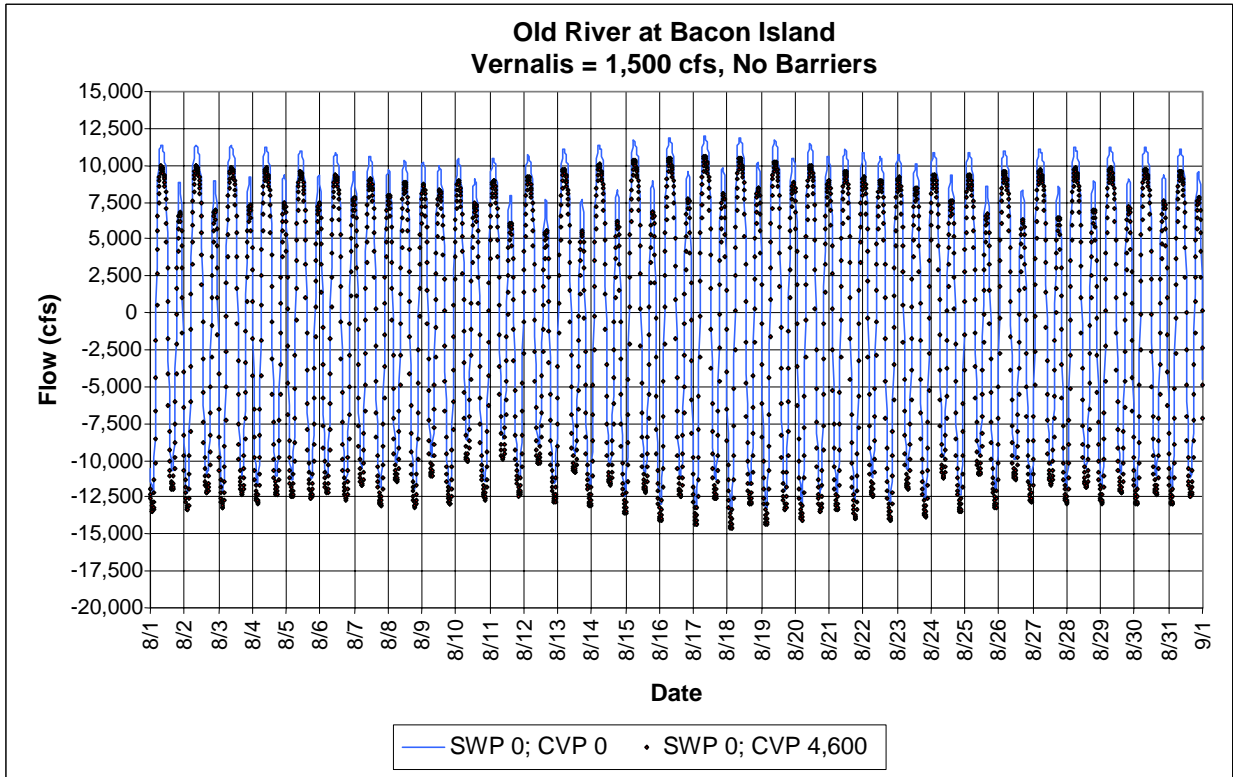


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**Figure D-81**  
**South Delta Location Map**

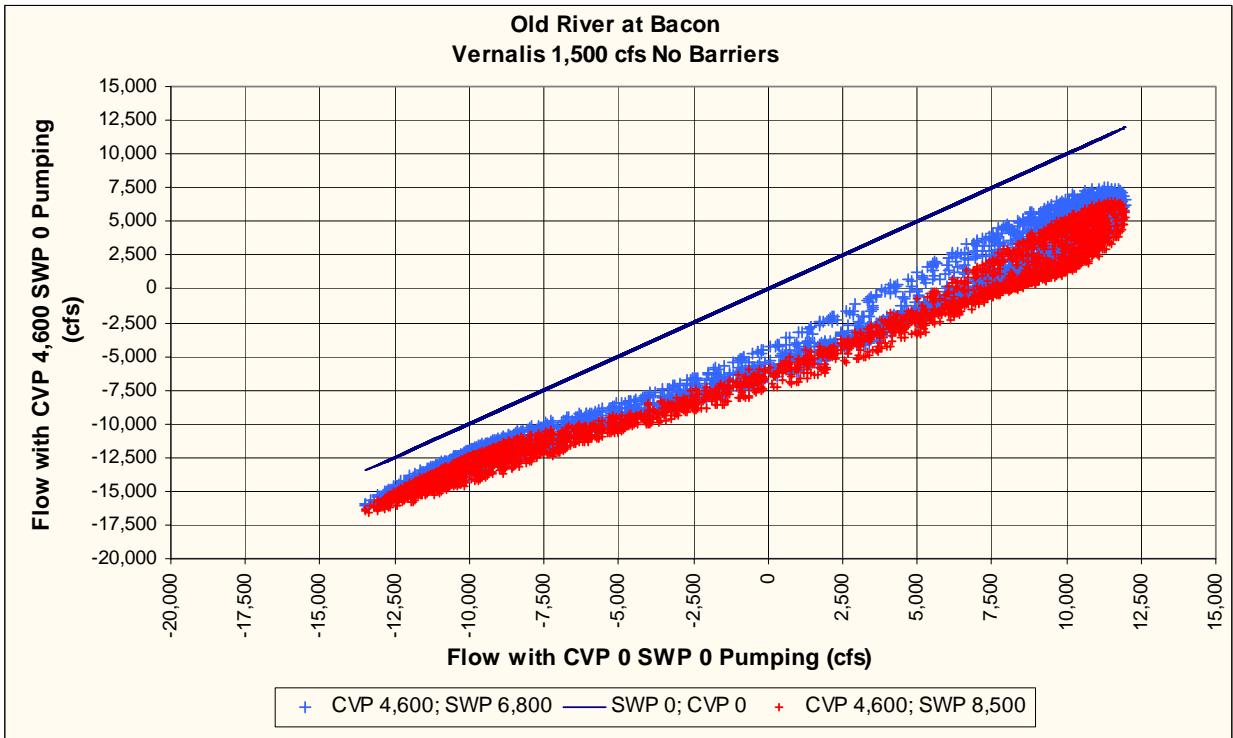
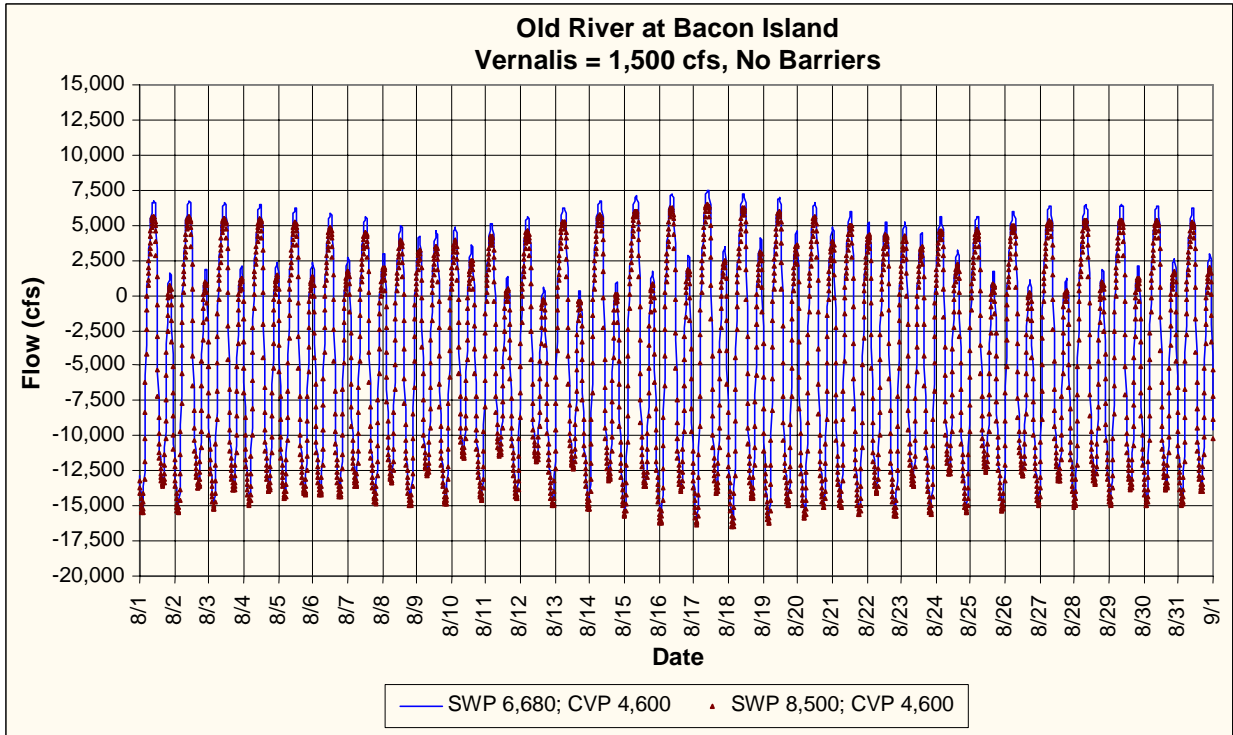


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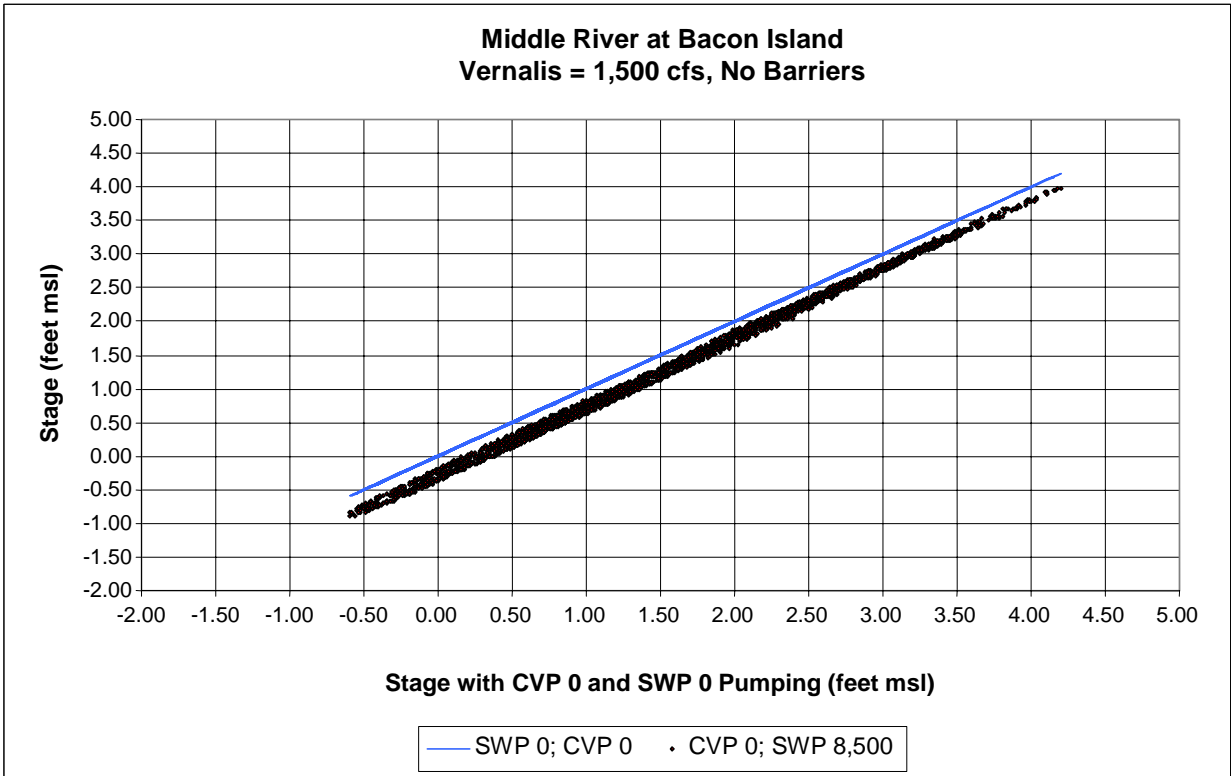
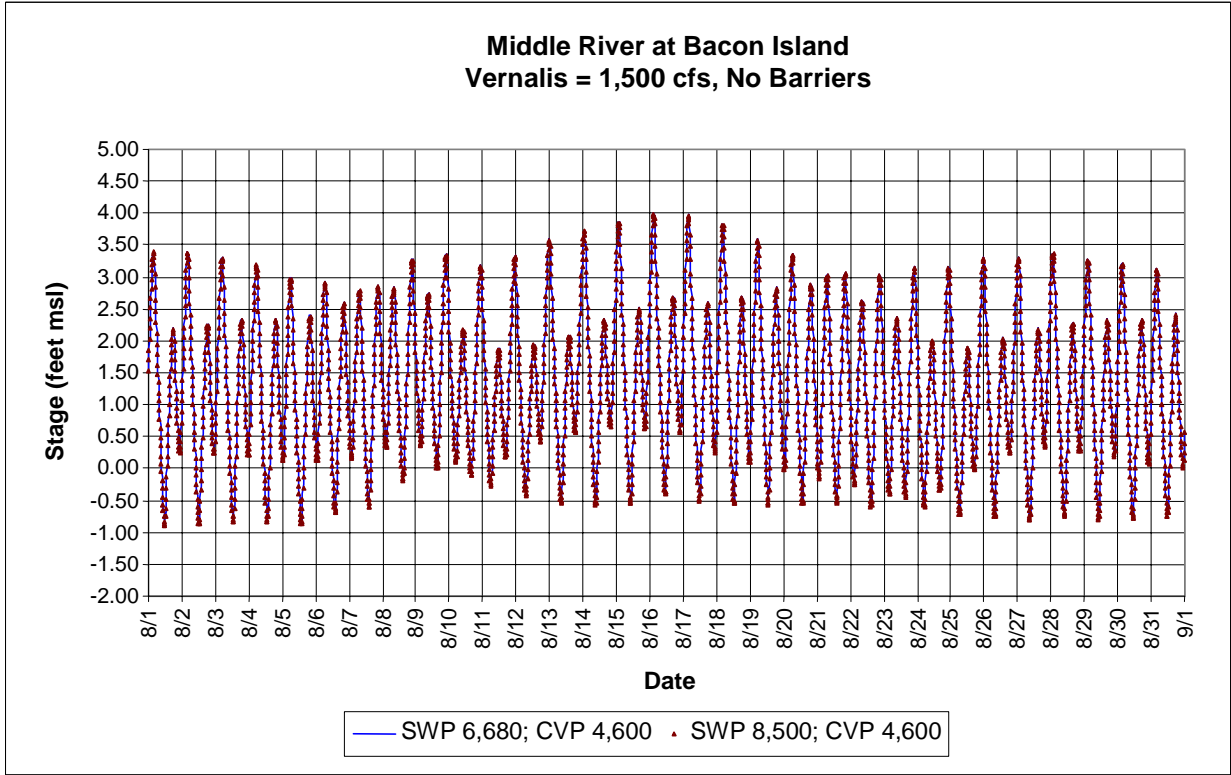
02053.02 101

**Figure D-83**  
**Simulated Flow in Old River at Bacon Island with CVP Pumping Only**



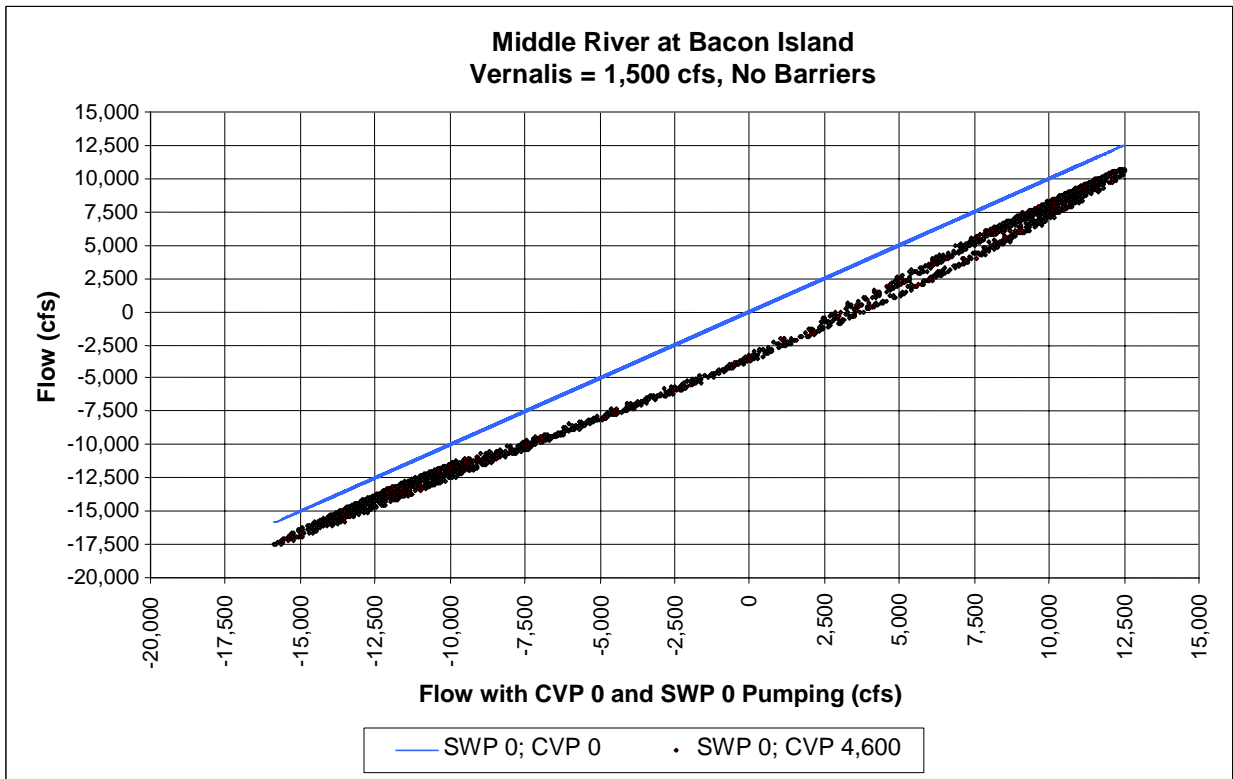
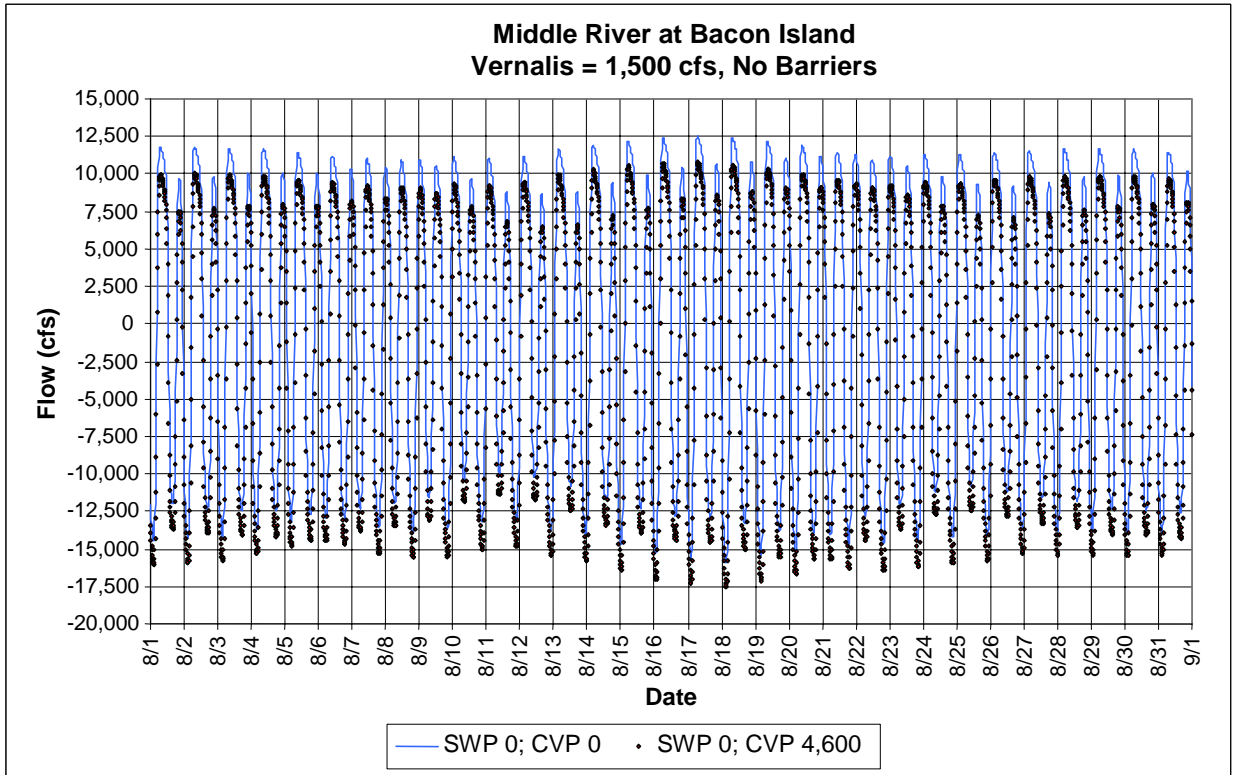
02053.02 101

**Figure D-84**  
**Simulated Flow in Old River at Bacon Island with CVP and SWP Pumping**



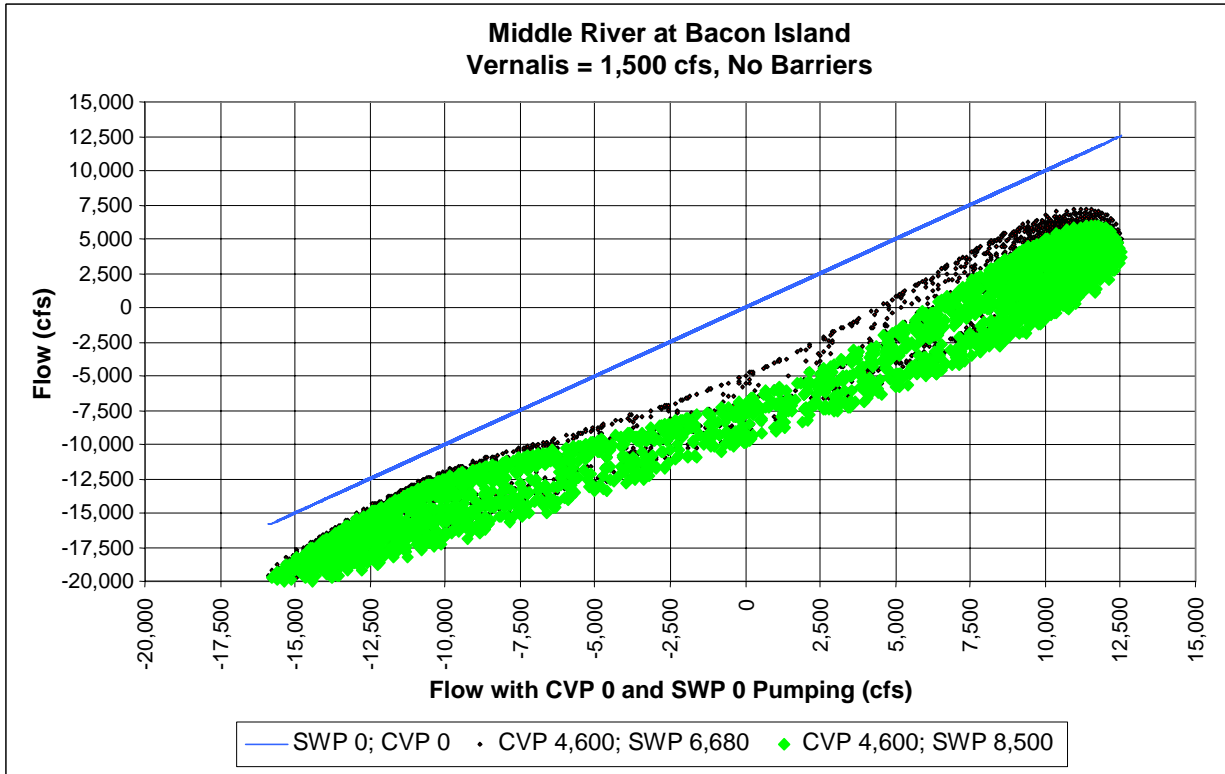
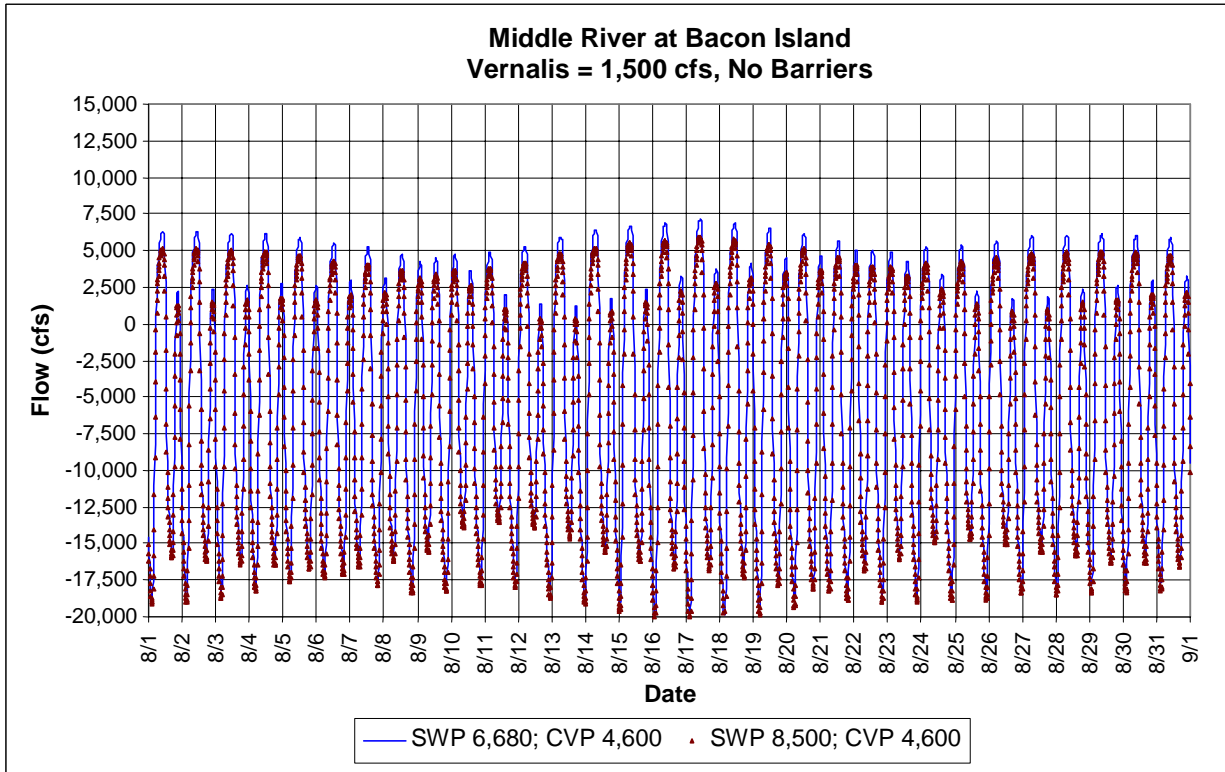
02053.02 101

**Figure D-85**  
**Simulated Water Surface Elevation (Stage)**  
**in Middle River at Bacon Island**



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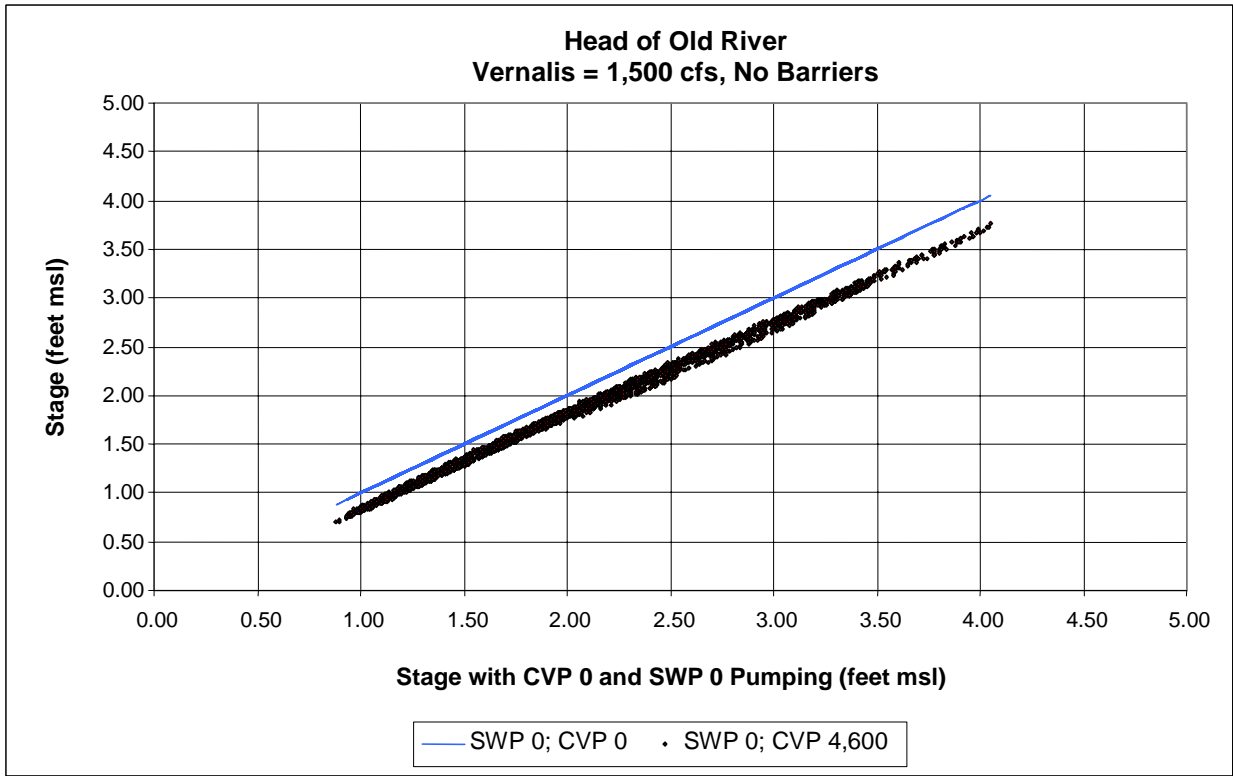
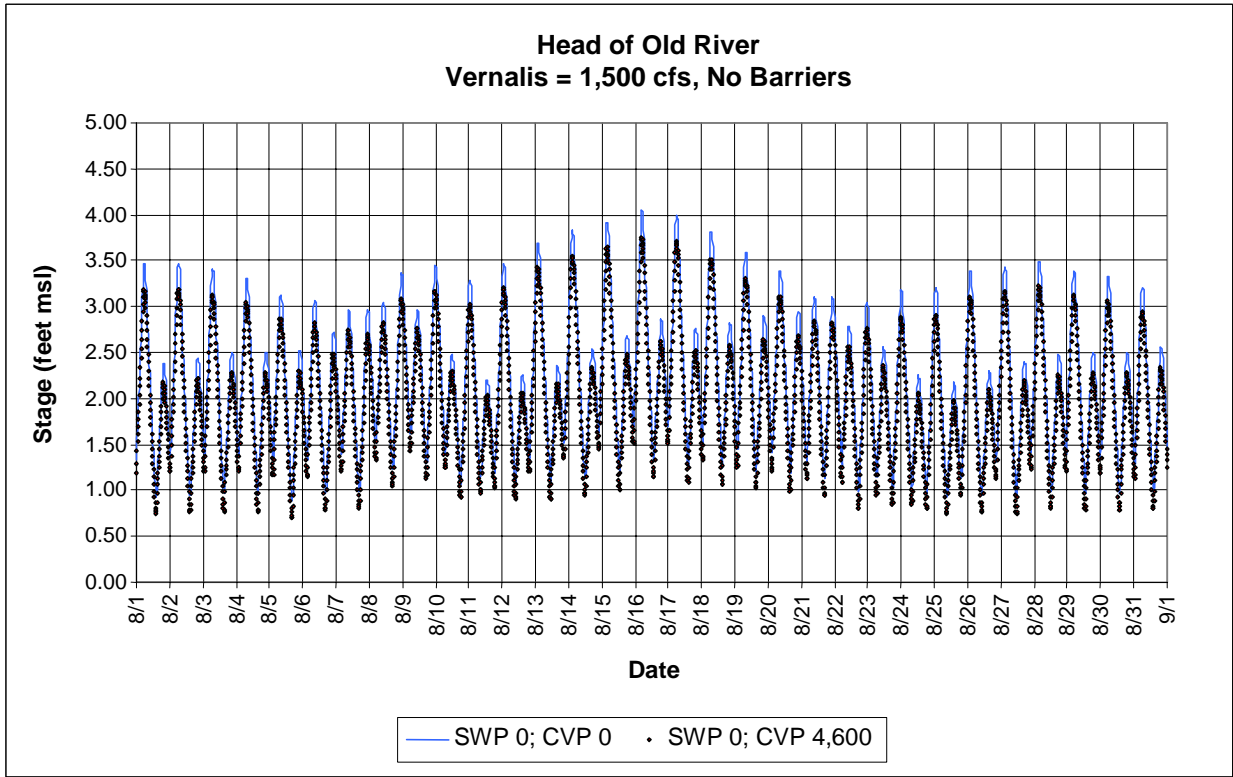
**Figure D-86**  
**Simulated Flow in Middle River at Bacon Island with CVP Pumping Only**



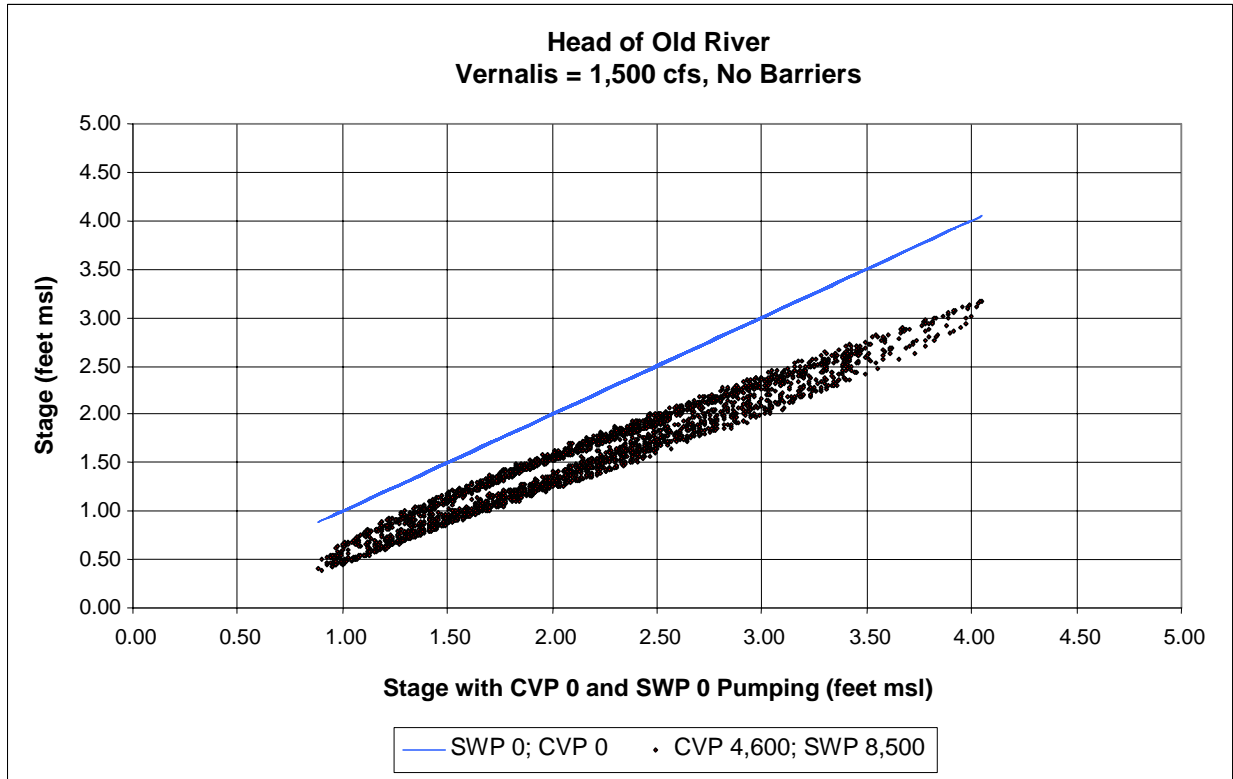
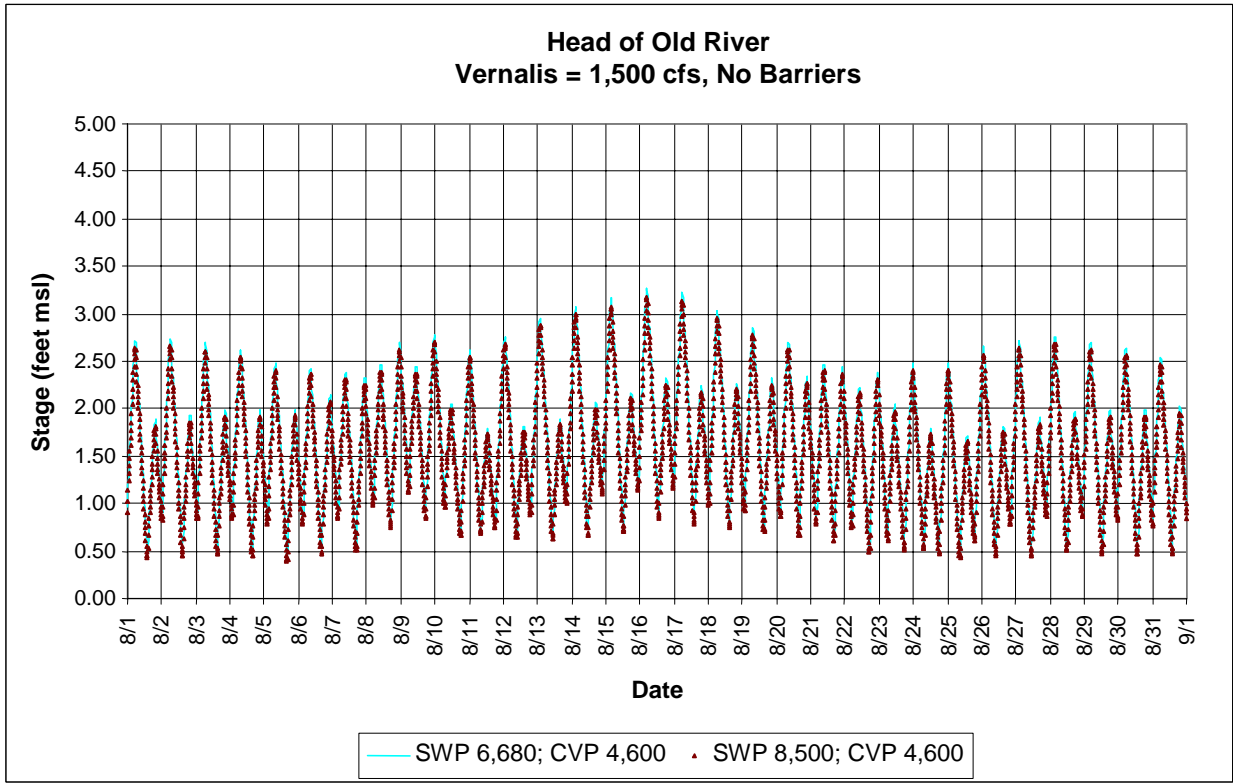
02053.02.101

**Figure D-87**  
**Simulated Flow in Middle River at Bacon Island with CVP and SWP Pumping**





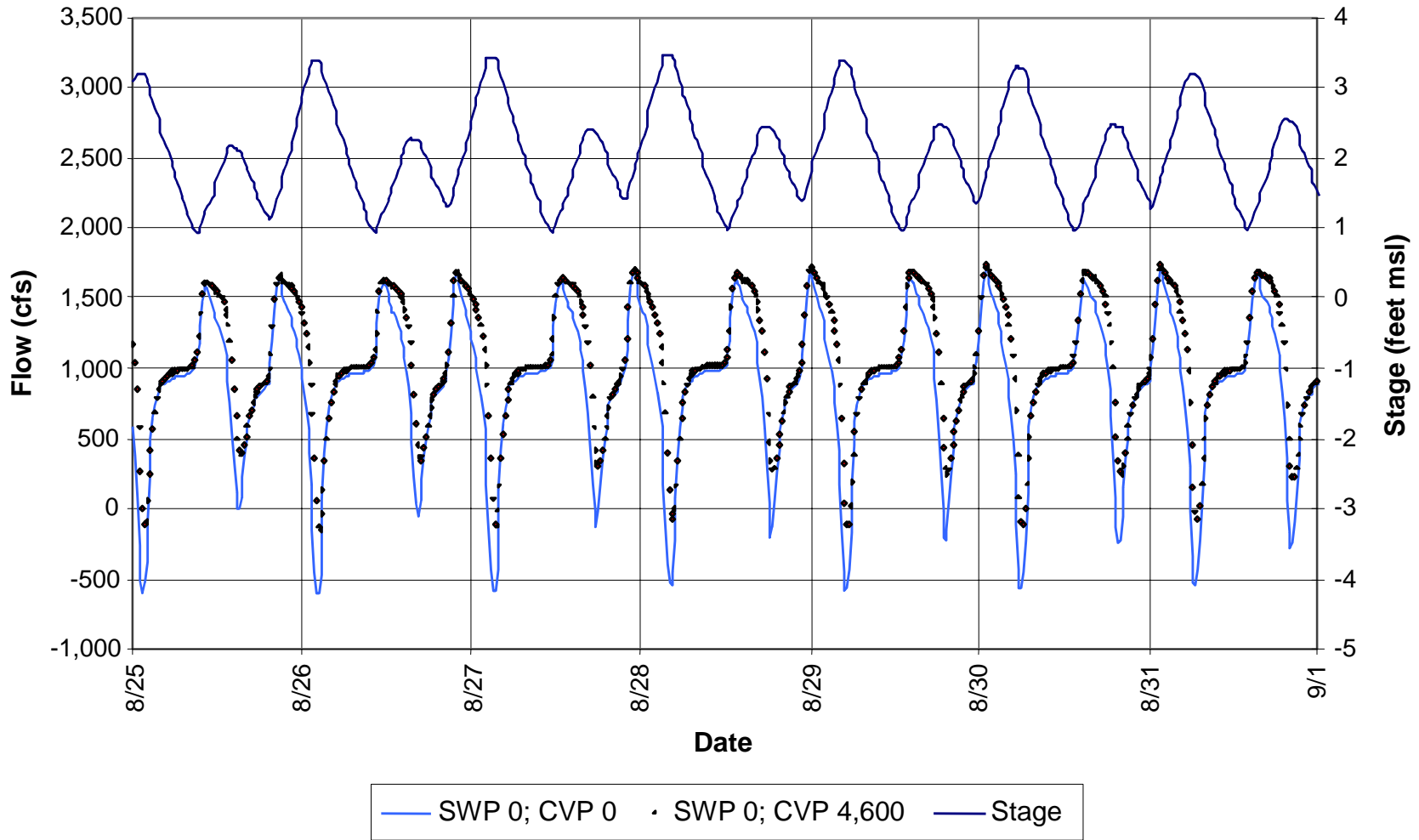
02053.02 101



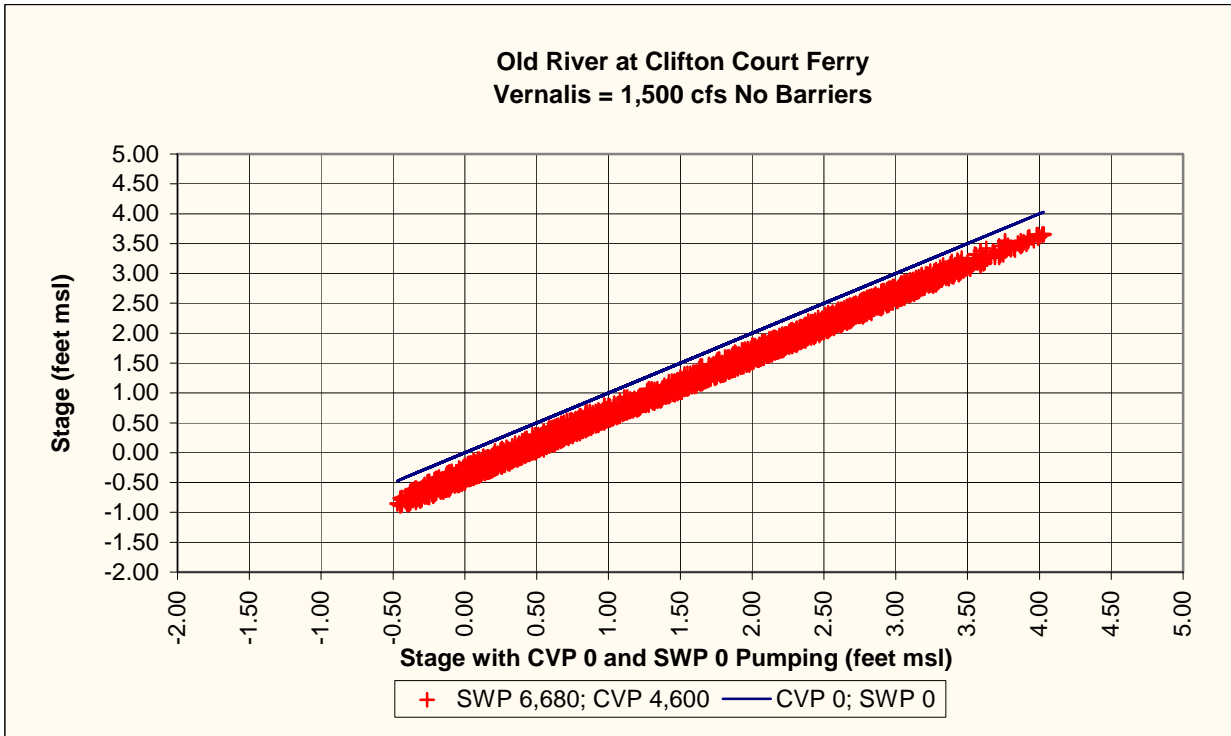
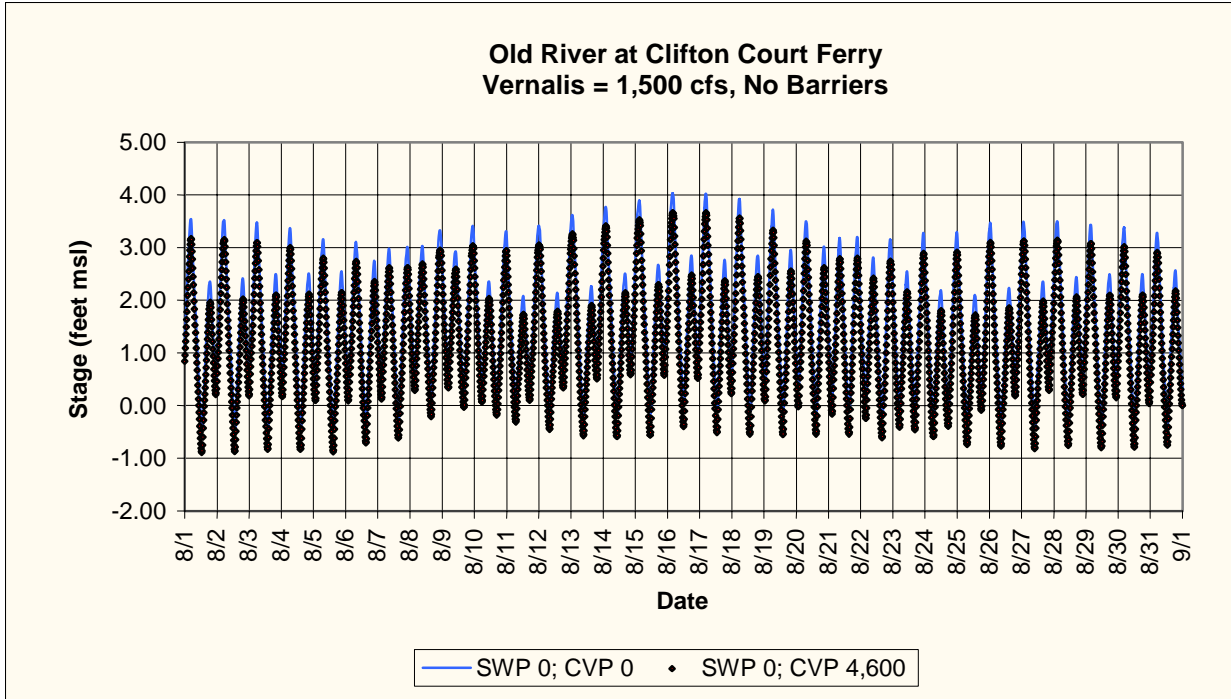
02053.02 101

**Figure D-89**  
**Simulated Water-Surface Elevation (Stage) at  
Head of Old River with CVP and SWP Pumping**

Tidal Stage and Flow at Head of Old River  
Vernalis = 1,500 cfs, No Barriers

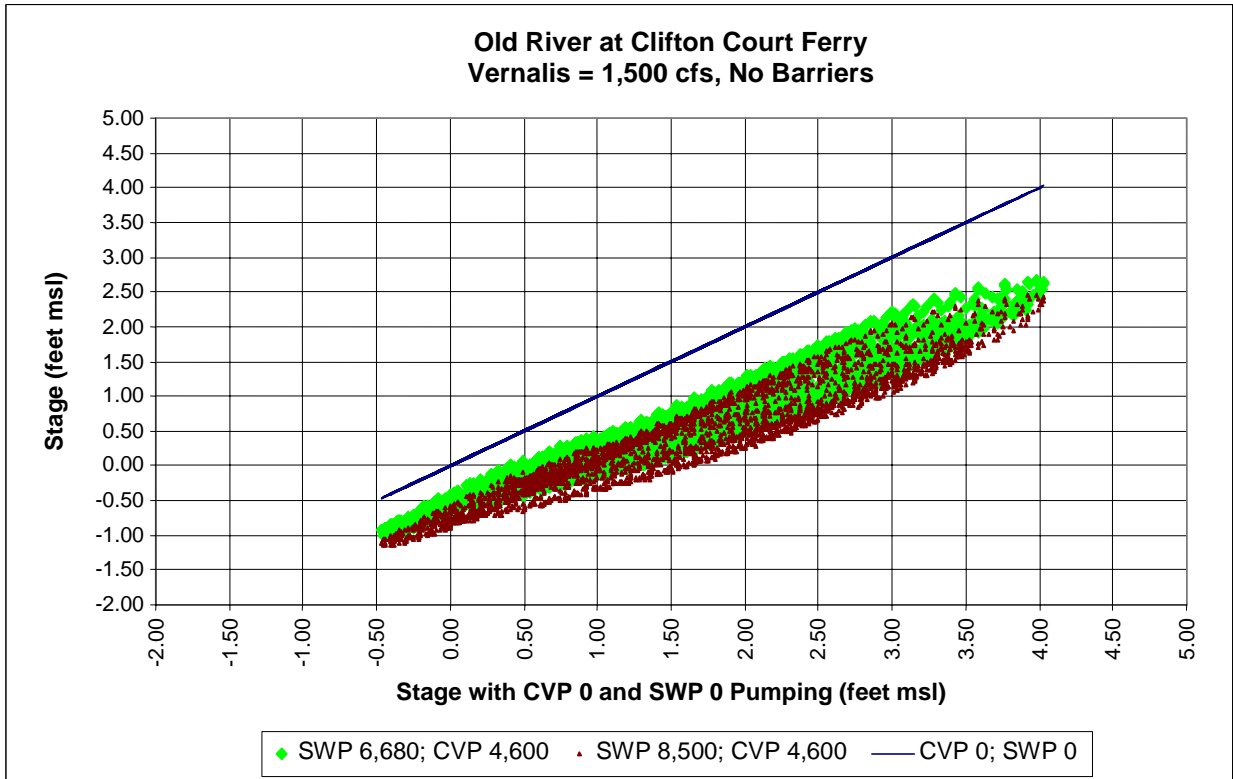
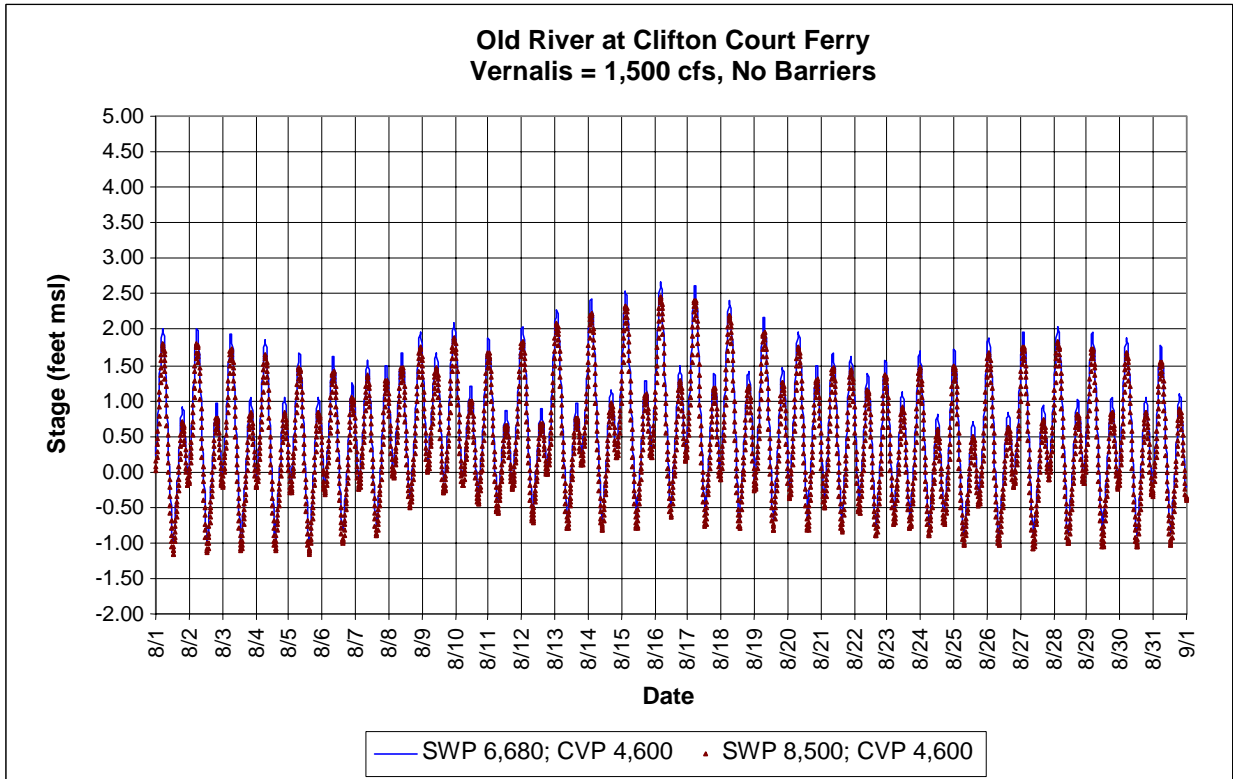


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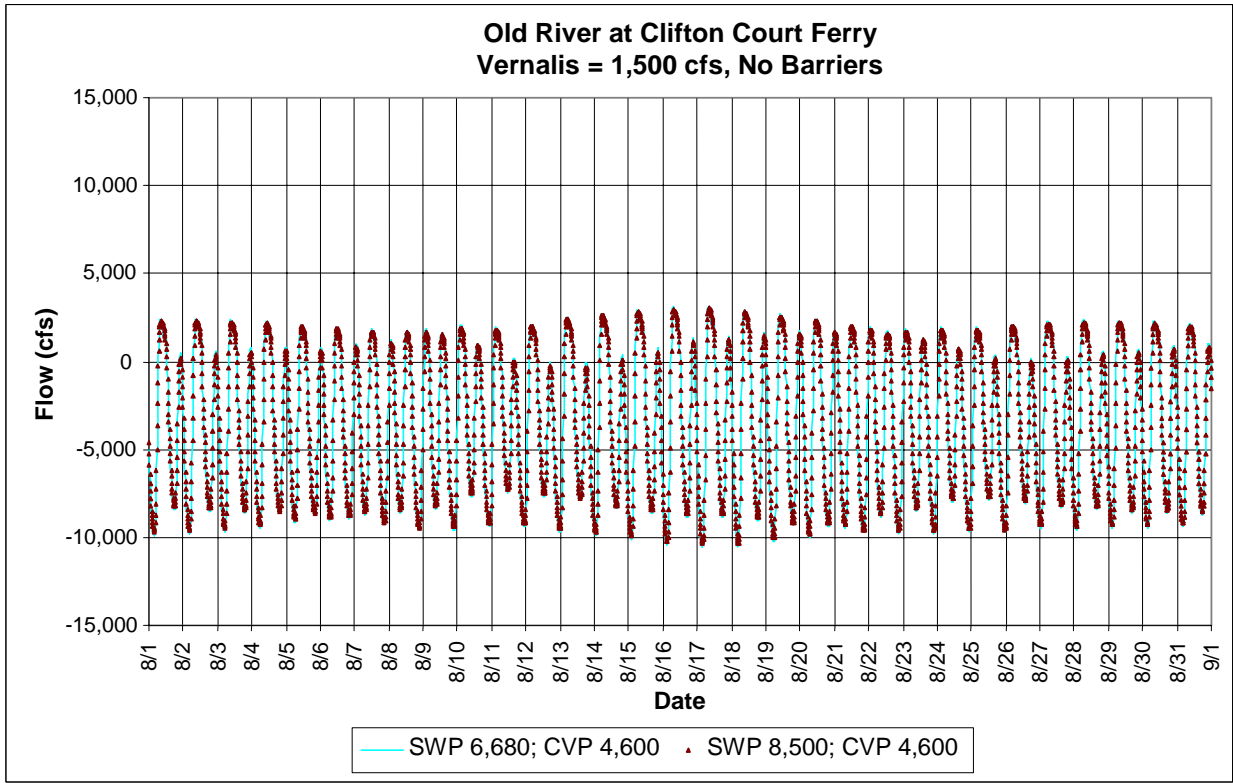
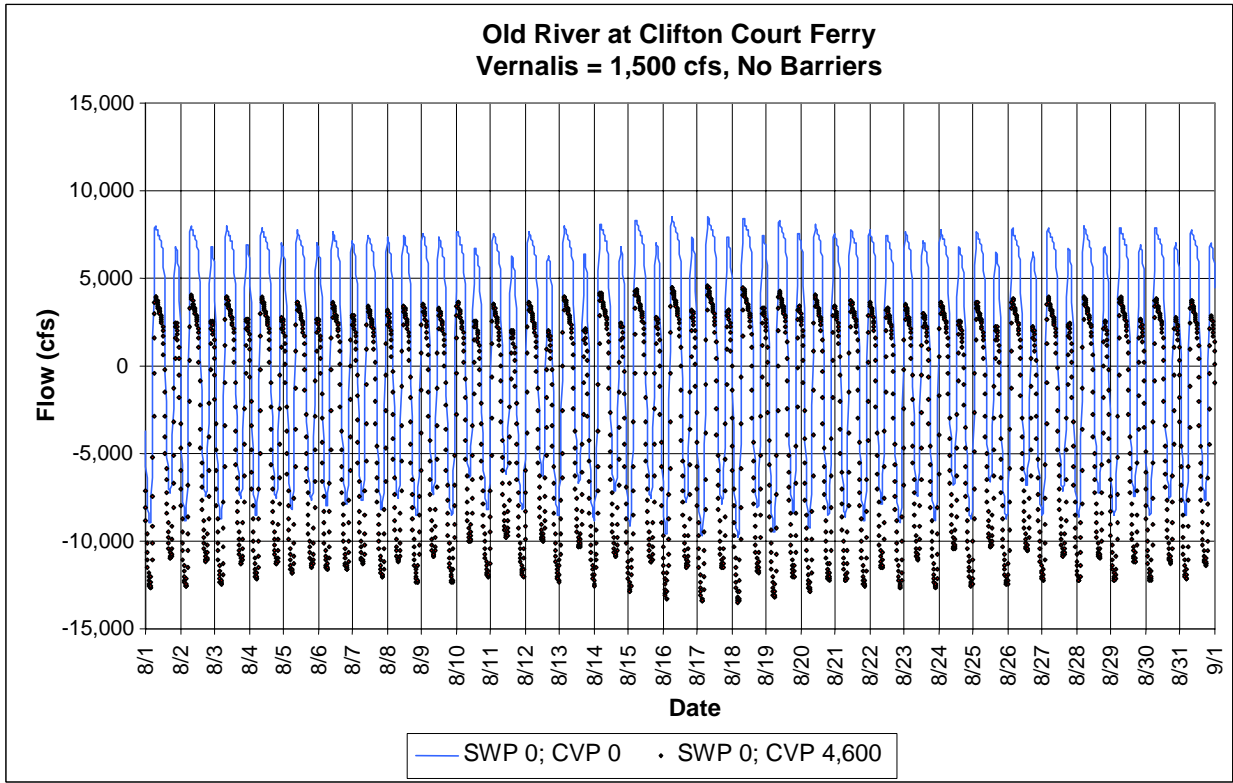


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**Figure D-91**  
**Simulated Water Surface Elevation (Stage) in**  
**Old River at Clifton Court Ferry with CVP Pumping Only**



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**Figure D-93**  
**Simulated Flow in Old River at Clifton Court Ferry with CVP and SWP Pumping**