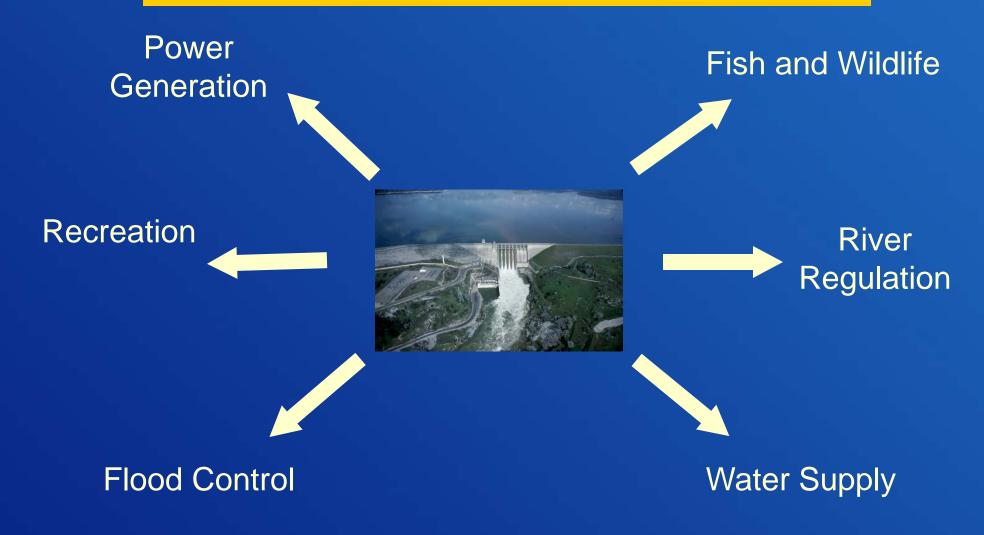
RECLAMATION Managing Water in the West

Folsom Reservoir

Overview



Authorized Purposes



Draft – Subject to Revision

RECLAMATION

American River Division



- Folsom Reservoir ~1M af (1.2 GCM)
- Folsom Powerplant 215,070 kW



- •Water Temperatures and Flows (steelhead v. fall-run)
- SAFCA Flood Control Diagram
- High Visibility Project

RECLAMATION

Folsom Basic Information

- Average annual Inflow 2.7 MAF
- Maximum Storage 977 TAF
- Surcharge capacity 110 TAF
- 3 Lower outlet tubes
- 3 Upper outlet tubes
- 8 Main spillway gates
- 6 Joint Federal Project spillway gates

Other Reservoirs on the American River

- Eighteen upstream reservoir
- Three upstream reservoirs considered in SAFCA agreement
- Upstream reservoirs provide impairment to Folsom reservoir inflow



How Does Folsom Reservoir Fit In

- Integrated CVP Operation
- Delta outflow/habitat needs
- Delta Salinity Management
- Instream needs
- Water supply needs (E.G. Delta Exports)
- American River contractors

Coordinating the Operations

- U. S. Fish and Wildlife Service
- National Marine Fisheries Service
- Western Area Power Administration
- U. S. Army Corps of Engineers
- State Water Resources Control Board
- State Department of Water Resources
- State Department of Fish and Game
- Local Stakeholders

Flood Control Operations

- Five standard ways to release flood water
 - > Lower Outlet tubes
 - ➤ Upper outlet tubes
 - > Powerhouse
 - ➤ New JFP facility
 - ➤ Original spillway
- One emergency method of releasing flood water
 - > Emergency spillway

Operational Constraints

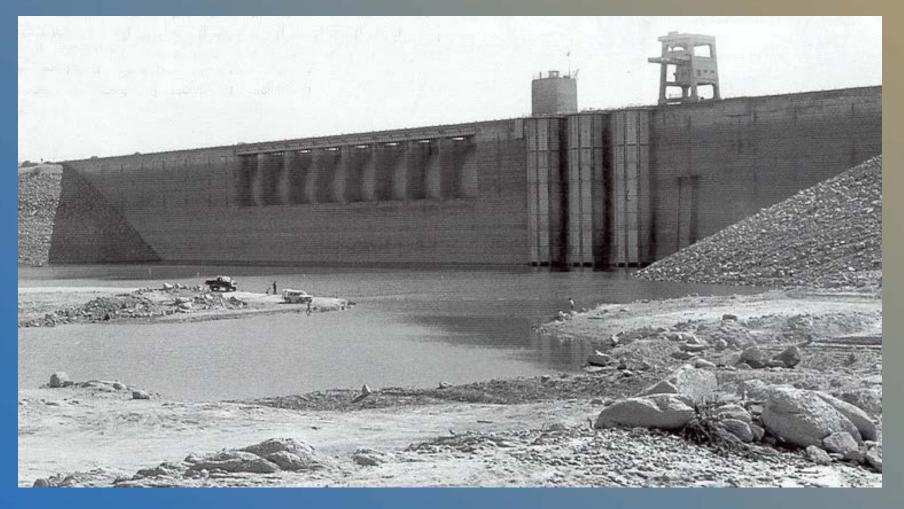
- Flood control
- Cold water pool management
- Fishery habitat
- Salmonid spawning and rearing flows
 - Need stable flows for spawning
 - > Stranding issues during rearing timeframes

Cold Water Pool Management

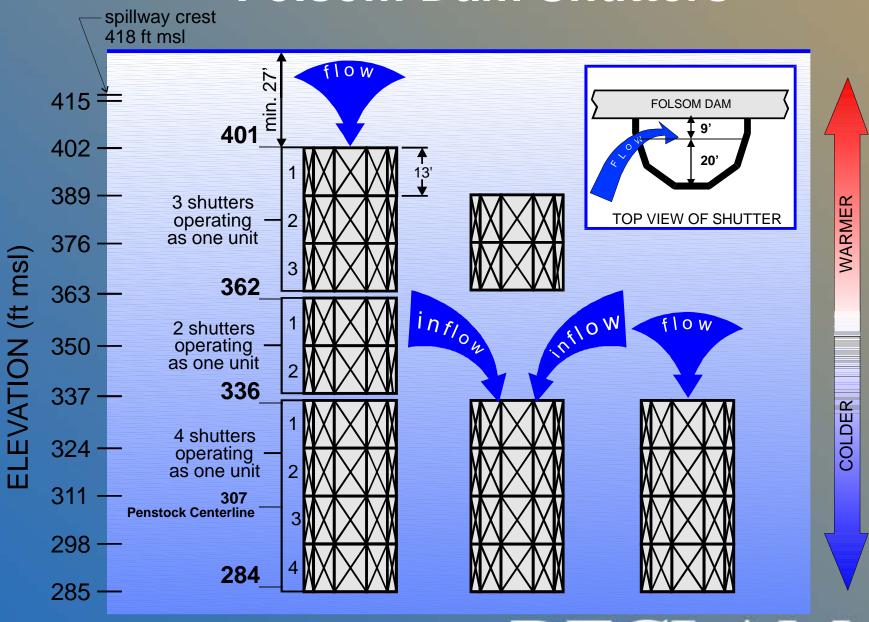
- Use change of release volume
- Use change of release location
- Power by-pass



Temperature Shutters on Penstocks for Selective Withdrawal



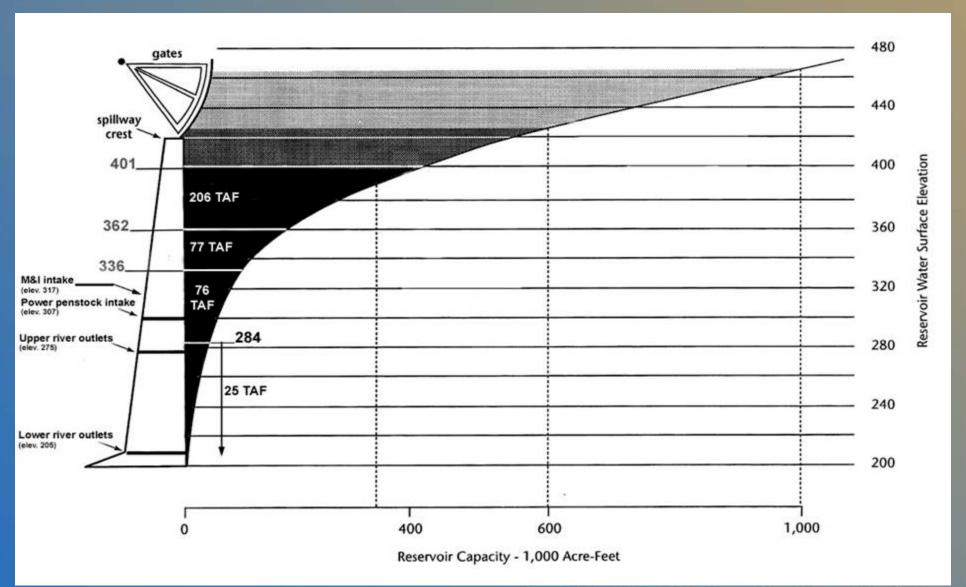
Folsom Dam Shutters



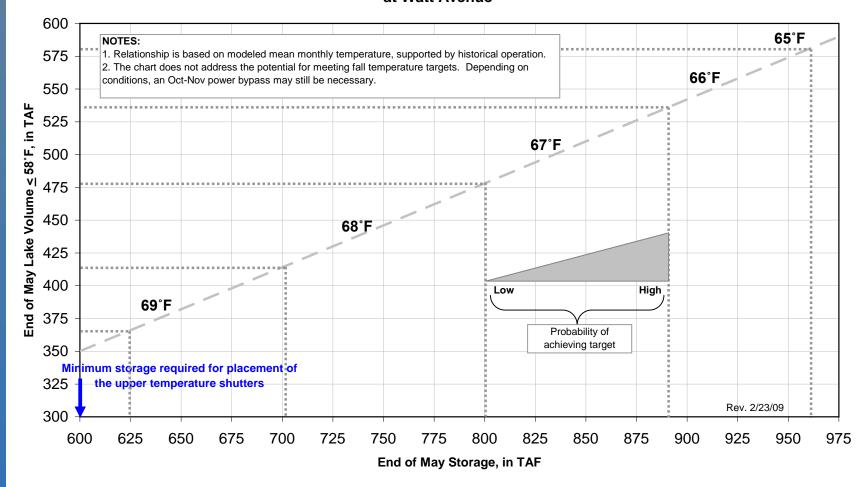
Draft – Subject to Revision

RECLAMATION

Folsom Outlet Elevations



Folsom Lake End of May Storage Potential for Meeting Summer Temperature Targets (Jun-Sep) at Watt Avenue



Questions?