

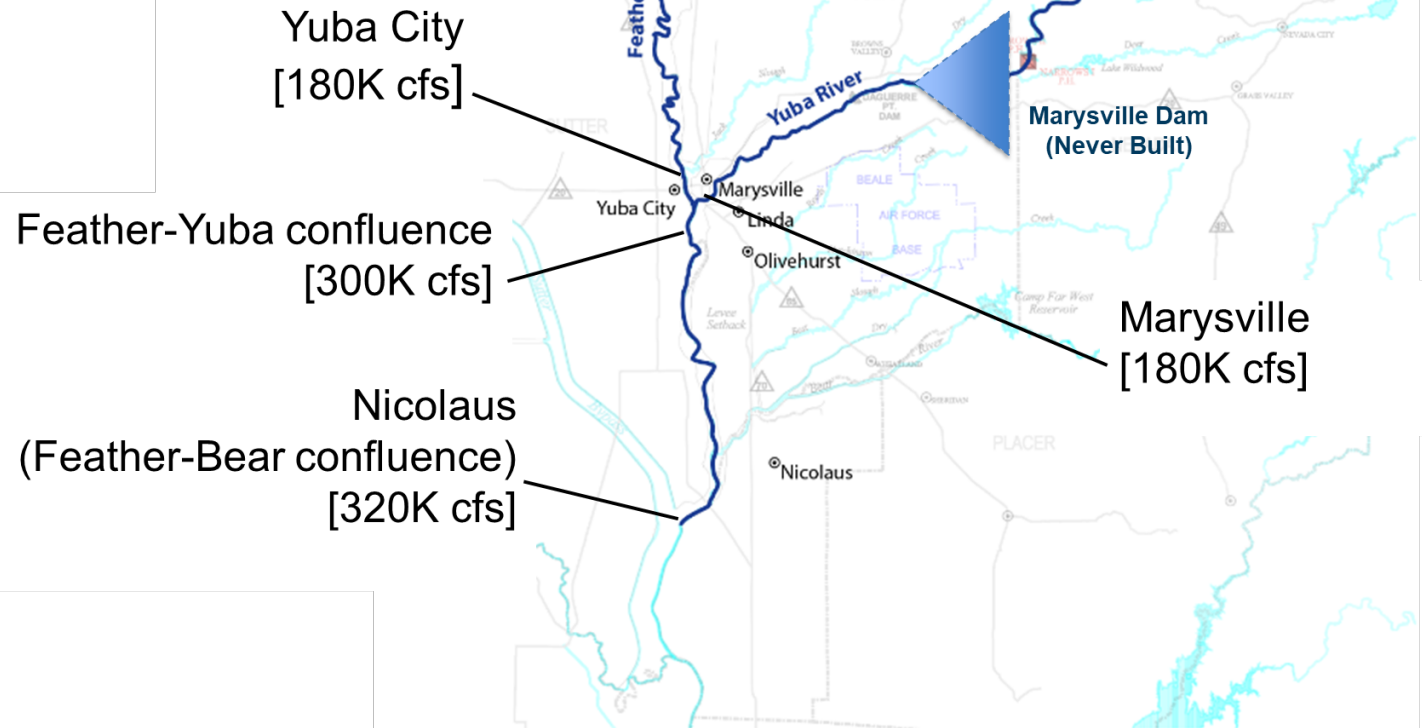
# Yuba-Feather FIRO

John James, YWA  
John Leahigh, DWR

August 4, 2020

# Yuba-Feather System

## Common Downstream Control Points



# Progressive Efforts

F-CO → FIRO → WCM

Improved  
Relationships and  
Communication

Annual  
Training &  
Exercises

Monitoring  
Enhancements

Coordinated  
Reservoir Release  
“Sandbox”

Continued Research to  
Improve Weather and  
Runoff Forecasts

Refined  
Reservoir Models

Risk-based Water  
Management

Refined  
Decision Support  
Tools

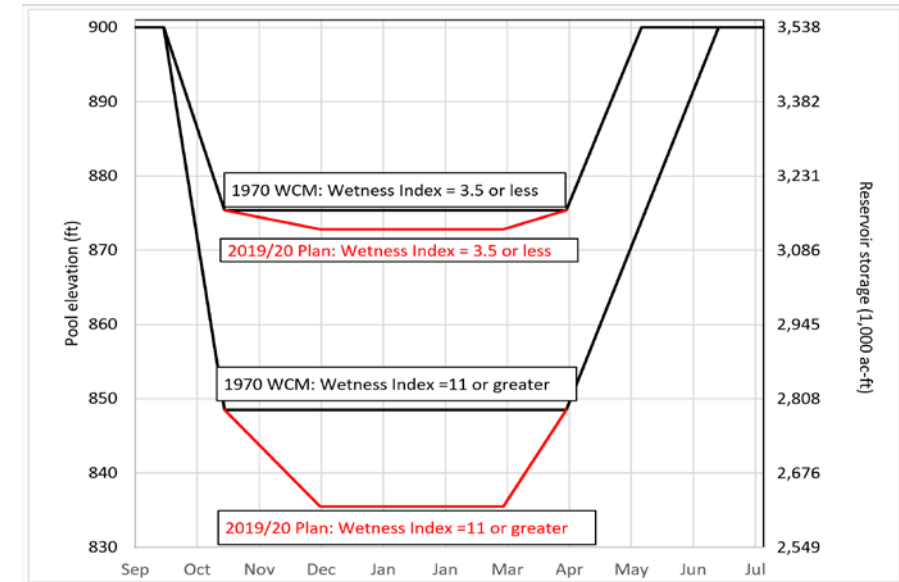
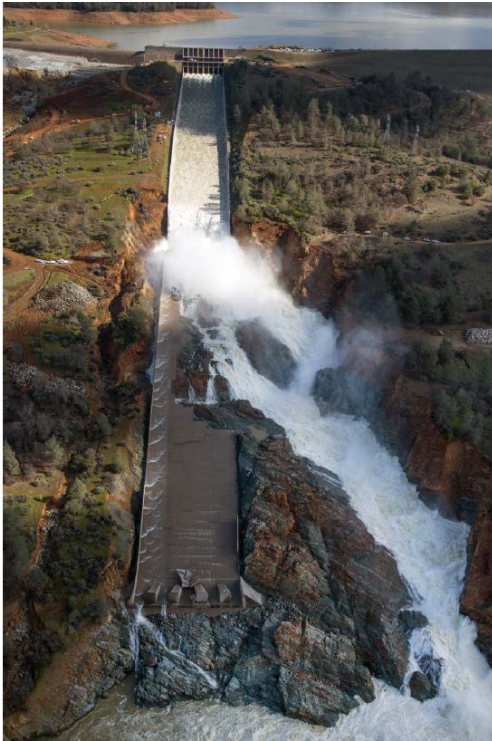
Research-based  
Monitoring  
Investments

Explicit Use of  
Forecasts in  
Flood Operation  
Rules

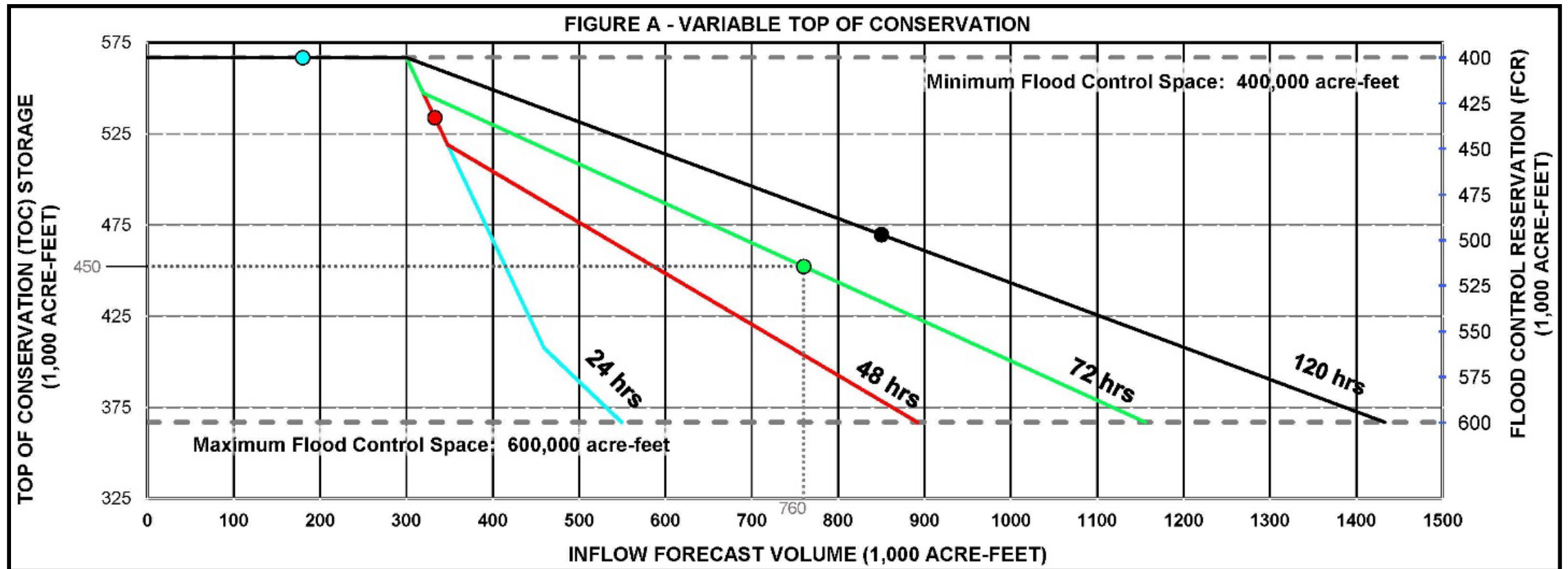
Resilient WCM  
Update



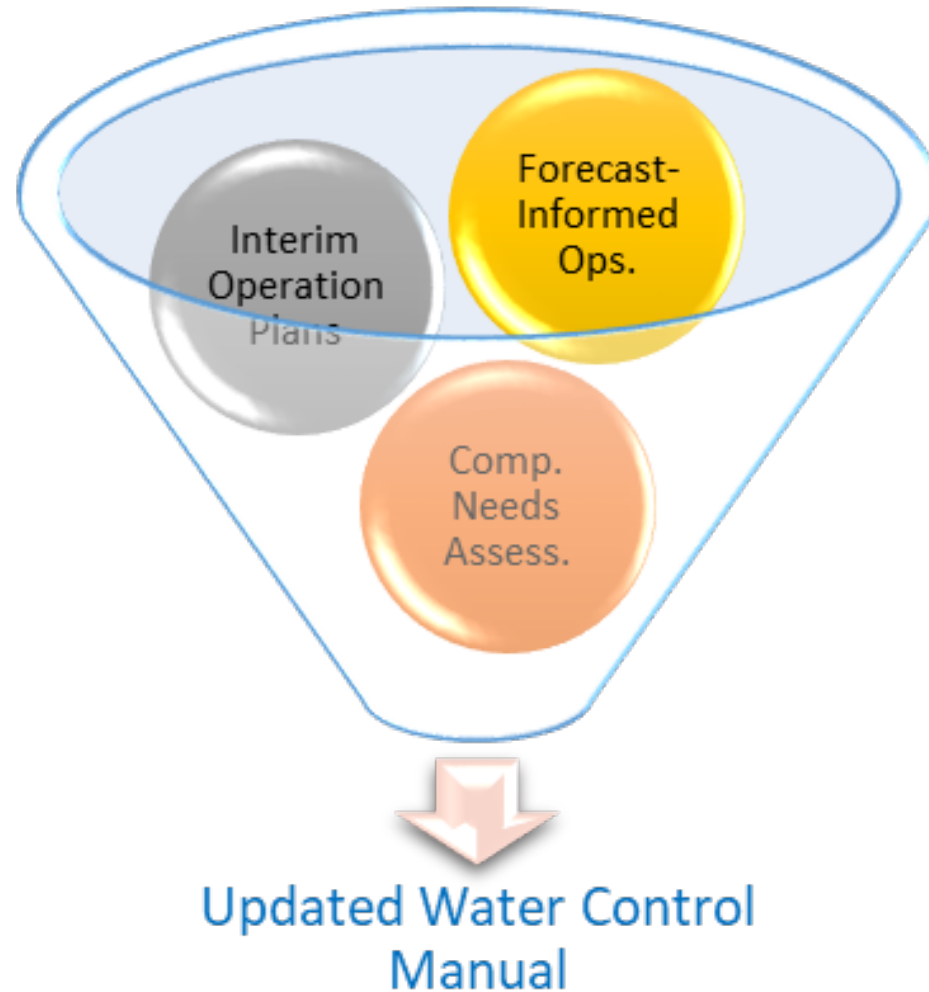
# Lake Oroville Interim Enhanced Flood Pool (Post 2017 Incident)



# Investigate “Folsom-style” Forecast-Based Strategies as part of Comprehensive Needs Assessment



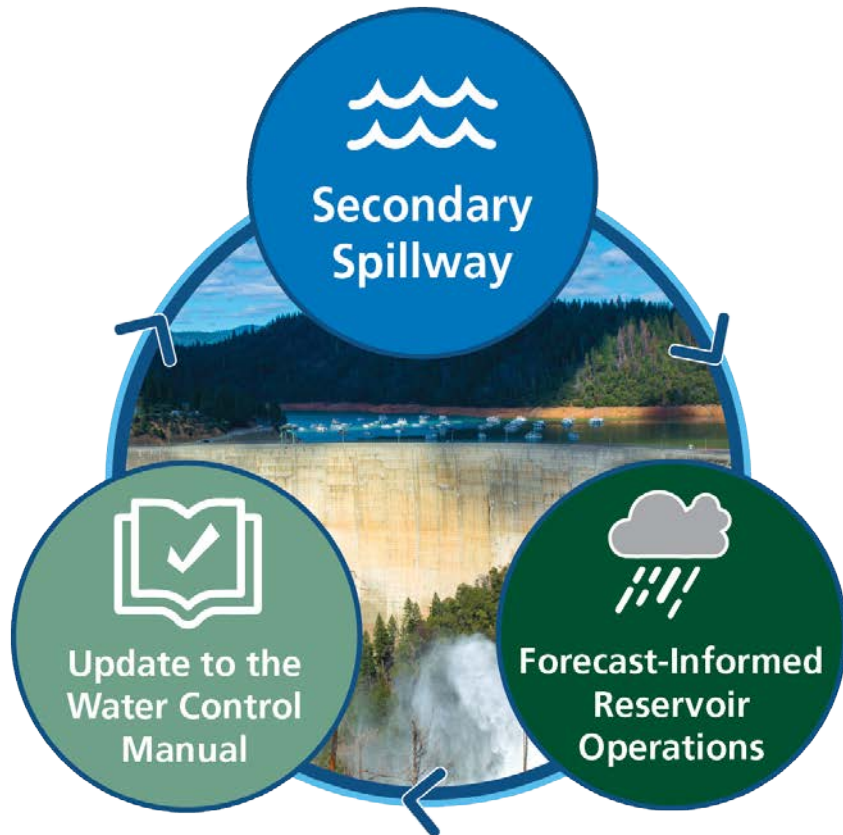
# Related Efforts Informing Oroville WCM update





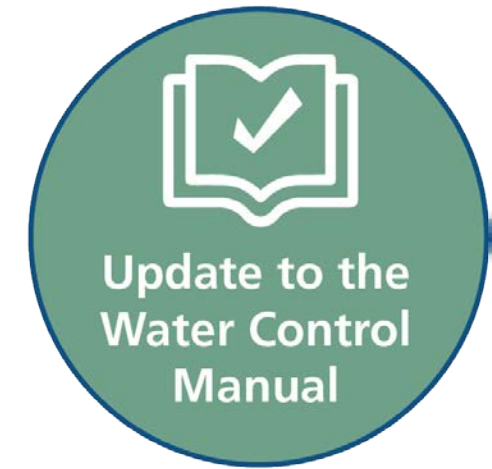
## Yuba Water Agency Public Safety Initiative

- Reduce Flood Risk and Improve Climate resilience for Yuba County.
- 3 Interconnected Projects

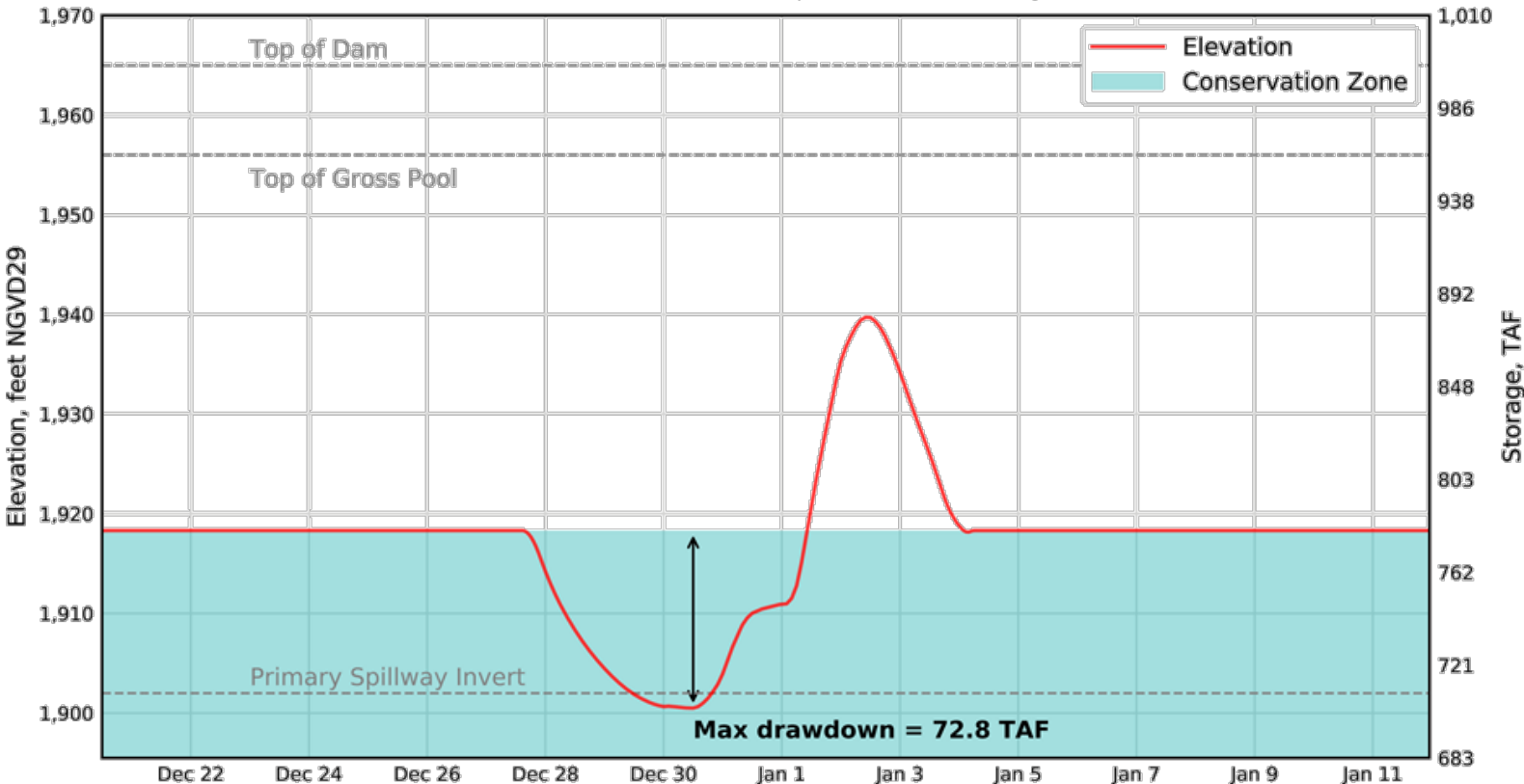


Yuba Water is in the design phase of the **secondary spillway**, which will have gates set 31.5 feet lower than the existing spillway. This will allow for earlier releases from lower in the reservoir, before a storm hits when there is still plenty of capacity in the river below.





New Bullard Bar reservoir elevation profile during simulated event



Equivalent Flood Storage Space creation in New Bullards Bar reservoir conservation zone is achieved from pre-releases from Secondary Spillway using FIRO water management strategies that are anticipated to be adopted and acknowledged in the updated Water Control Manual



# Yuba-Feather FIRO Next Steps

## Draft Work Plan for Yuba-Feather Forecast Informed Reservoir Operations (FIRO) Viability Assessment



New Bullards Bar Reservoir



Lake Oroville

July 2020

