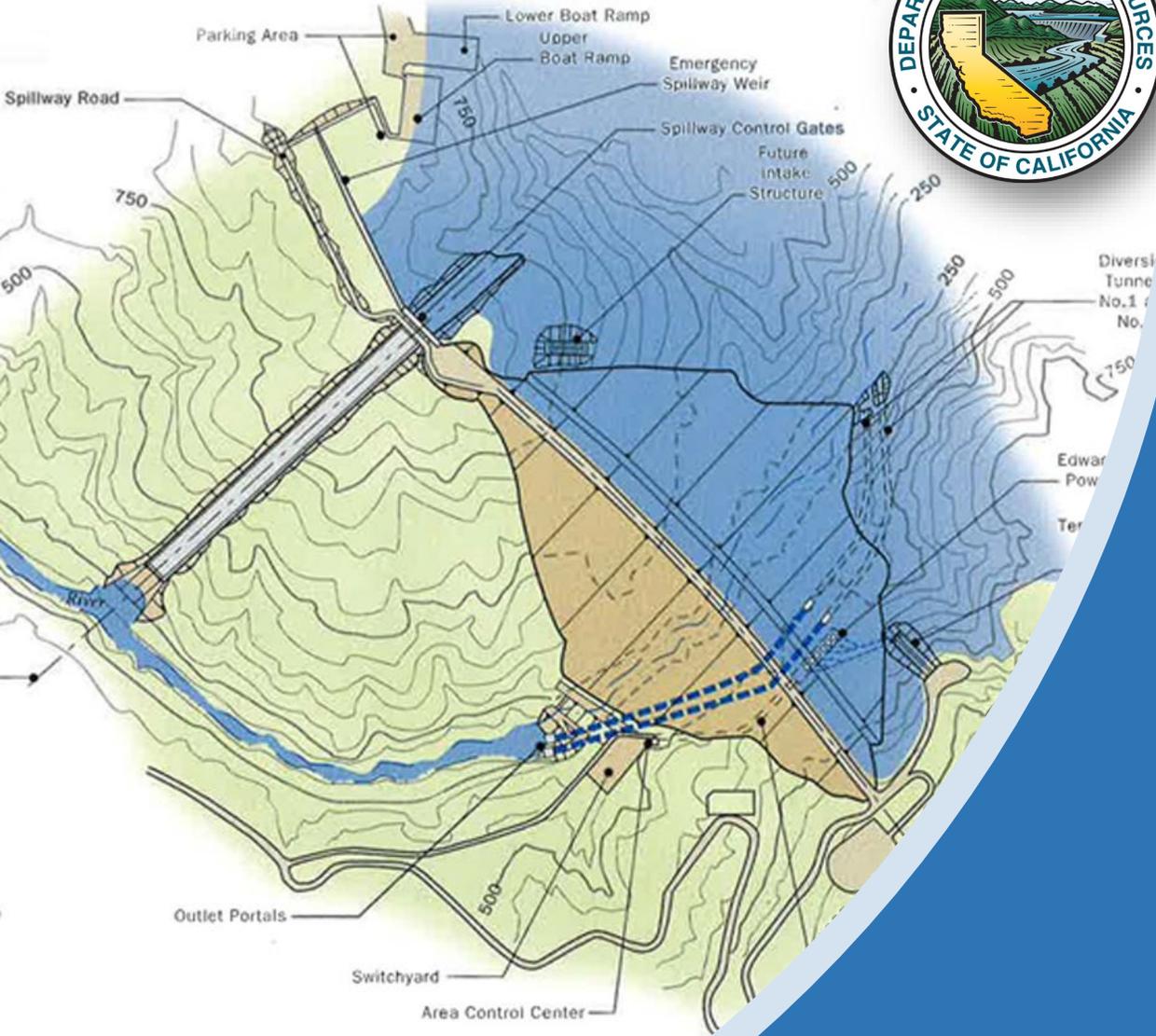




STATE OF CALIFORNIA  
DEPARTMENT OF WATER RESOURCES  
**OROVILLE DAM SAFETY**  
**COMPREHENSIVE NEEDS ASSESSMENT**

# Lake Oroville Flood Risk Reduction



**Oroville Dam Safety – Ad Hoc Committee Meeting No. 3**

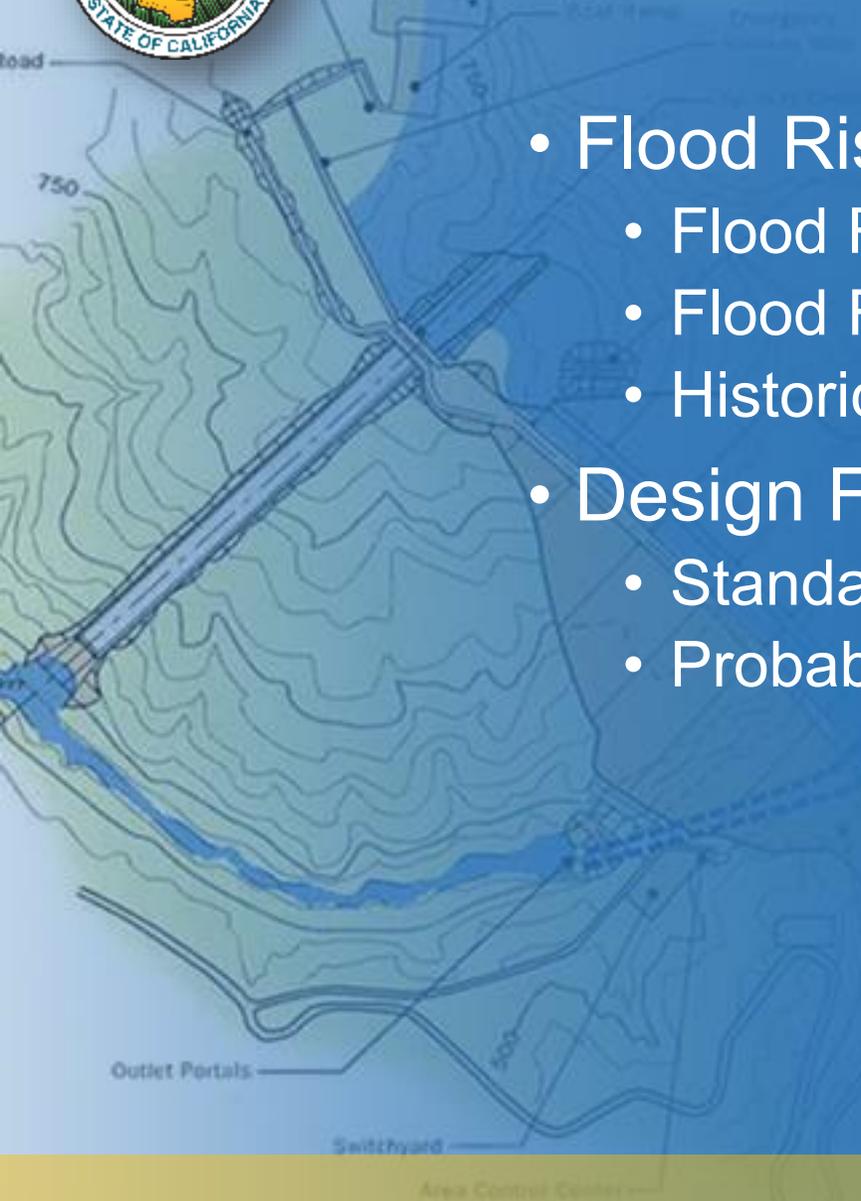
January 10, 2019





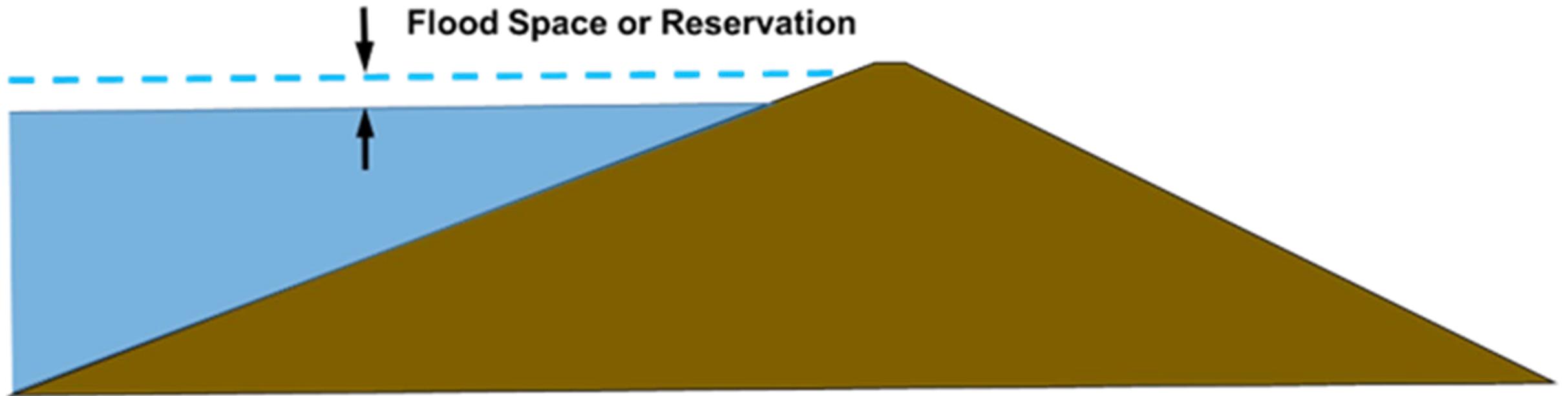
# Overview

- Flood Risk Reduction
  - Flood Reservation
  - Flood Flow Attenuation
  - Historical Floods
- Design Floods
  - Standard Project Flood (Downstream Protection)
  - Probable Maximum Flood (Dam Protection)



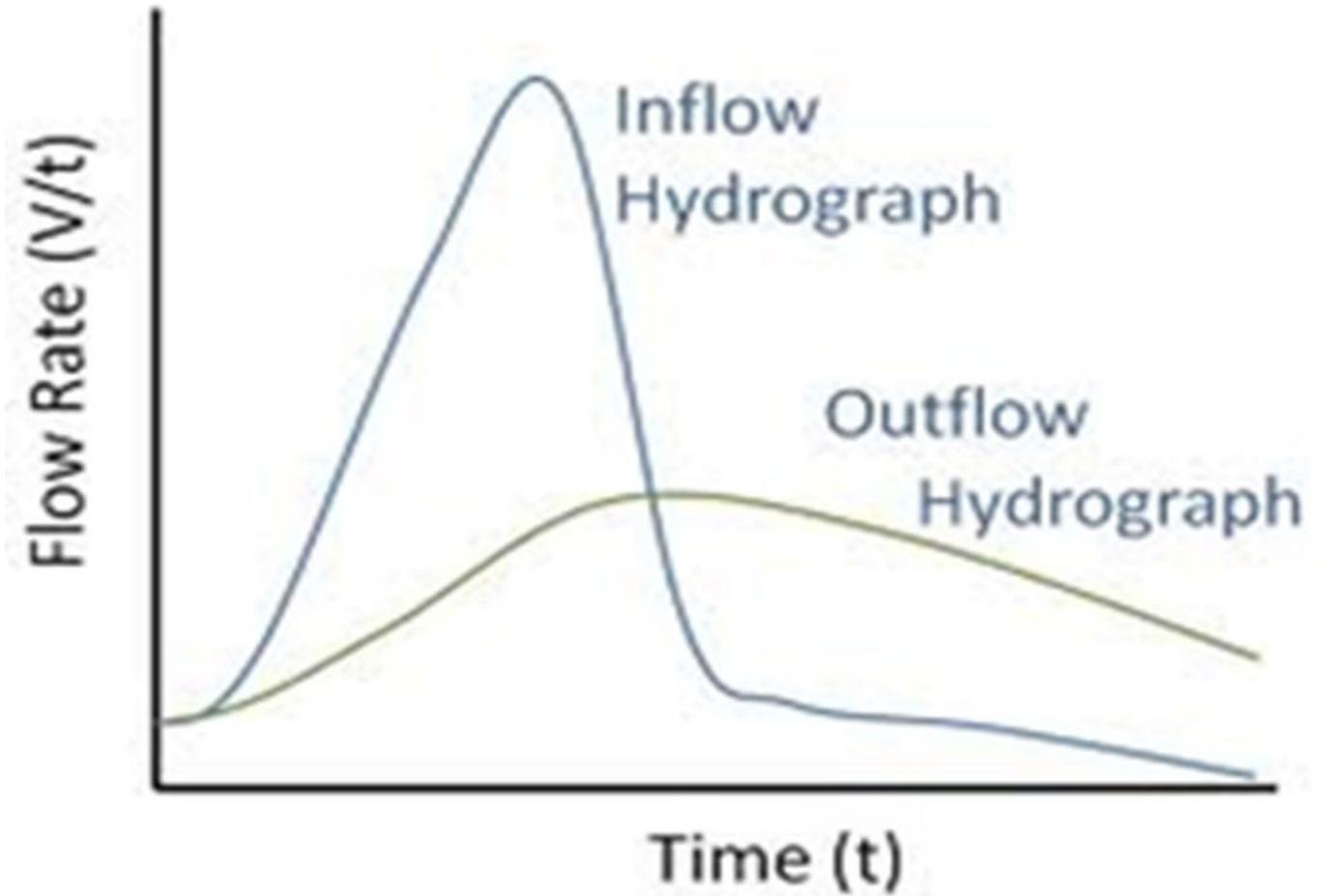
# Flood Reservation

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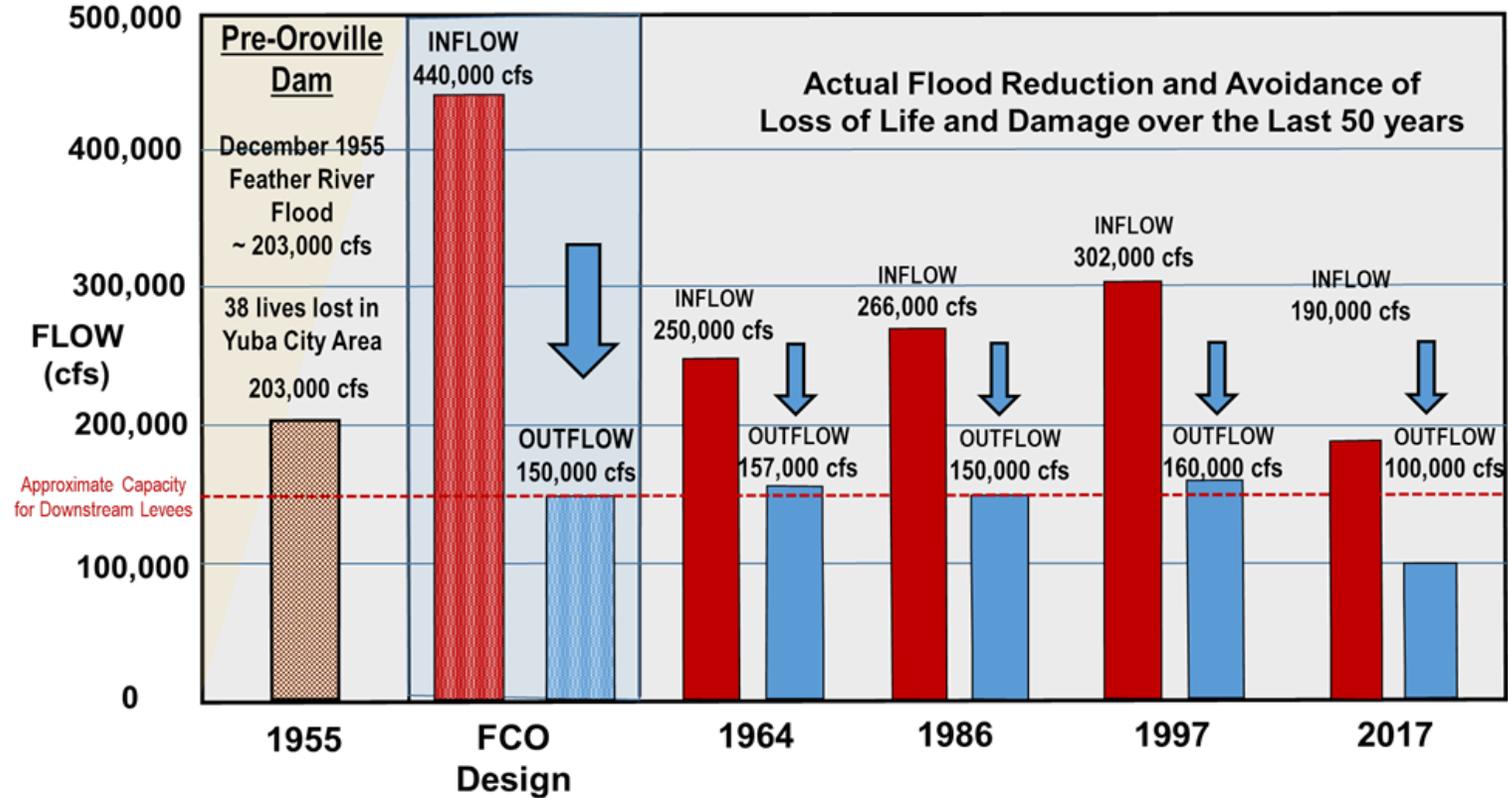


# Flood Flow Attenuation

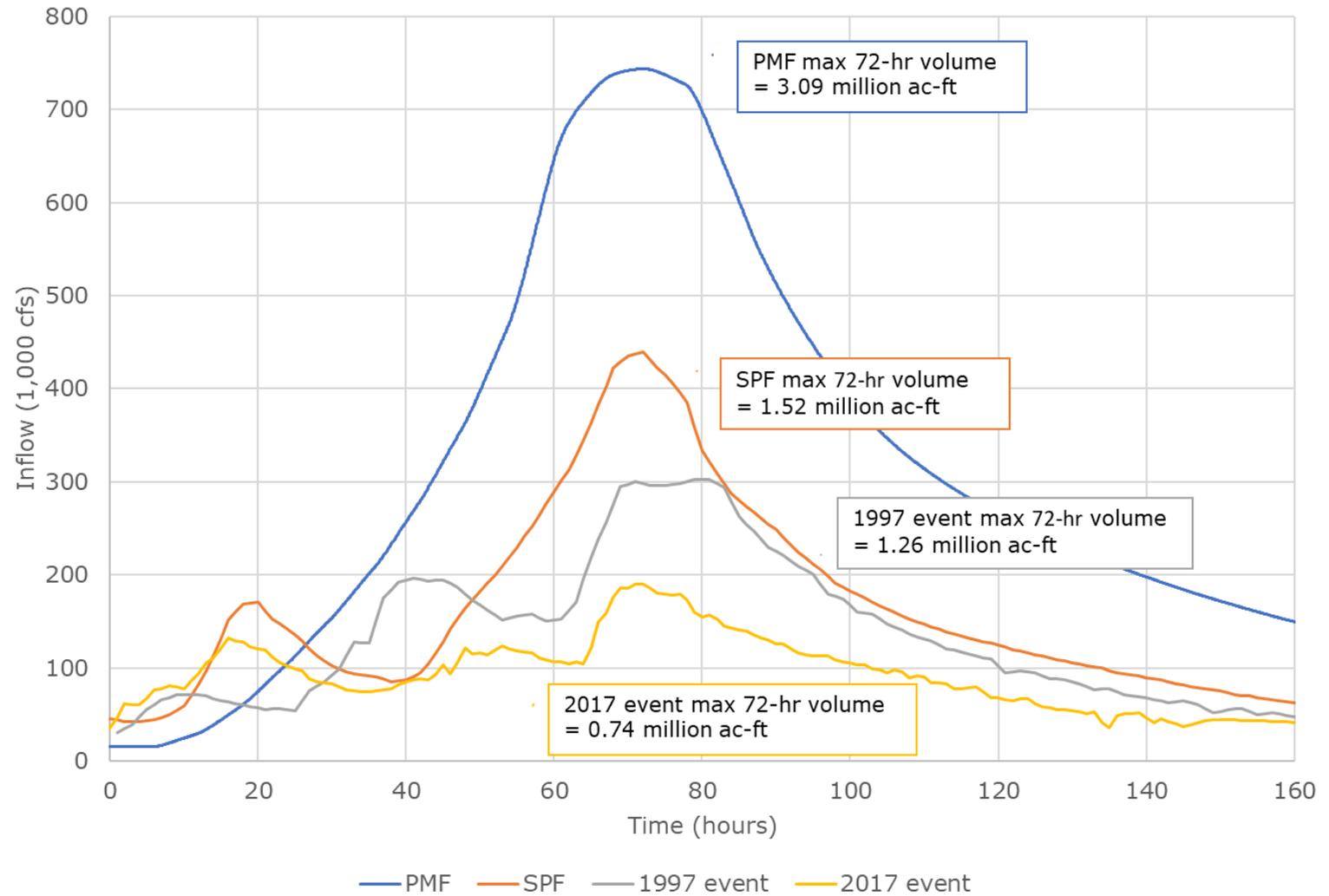
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# Historical Floods



# 3-day Hydrograph Comparisons





# Design Flood Events

- Standard Project Flood
  - USACE Flood Reservation based on this event
  - Recurrence interval of between 200-500 years
  - Slight chance of occurring over the lifetime of facility
  - Dam operations designed to greatly reduce flow rates on downstream levees and to stay within channel capacity
- Probable (Improbable) Maximum Flood
  - Worst flood conceivably possible
  - Recurrence interval estimated at 10,000+ years
  - Used for spillway design to prevent overtopping of dam
  - Downstream flooding will occur during this type of event

Outlet Portals

Switchyard

Central Control



Questions?