

Oroville Incident — 12-14 February 2017

Oroville Dam, California

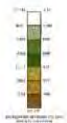
California Department of Water Resources





DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

MISCELLANEOUS INVESTIGATIONS SERIES
FLUIDS EXPERIMENTAL, HYDROLOGICAL,
CALIFORNIA
MAP 586 (REVISED 1986)



SYMBOLS
The symbols used on this map are defined in the following table:
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REFERENCES
...
ACKNOWLEDGMENTS
...
CONTACT INFORMATION
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GENERAL INQUIRIES
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SALES INFORMATION
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ORDERING INFORMATION
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MAP DISTRIBUTION
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MAP AVAILABILITY STATEMENTS
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...
MAP CORRECTIONS
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DIGITAL SHADED RELIEF WITH COLOR-CODED ELEVATIONS
EXPERIMENTAL DIGITAL SHADED-RELIEF MAPS OF CALIFORNIA
By
Kathleen Edwards and R.M. Bateson
1986

SFO

Oroville

Folsom

LAX

USGS

ster Resilience



Oroville Dam, California 1961-1968

Oroville Dam,

California State Water Project

Earthen embankment dam on the Feather River

Water storage,

Flood control,

Hydroelectric power generation, and

Water quality improvement

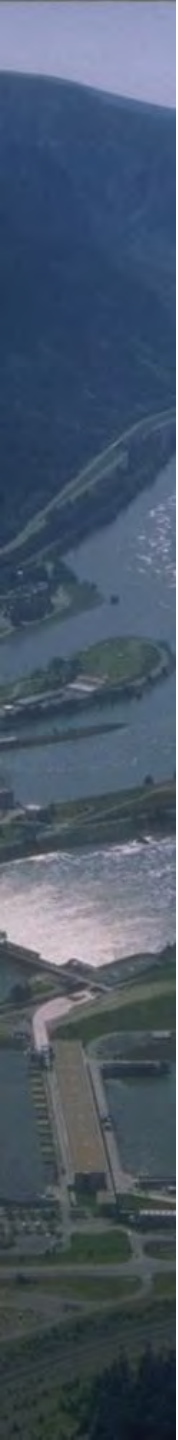
Built 1961-1968

Tallest earth dam in the United States, 230 m

Storage 4.4 km³

Six power-generating turbines, 819 megawatts (MW)

Oroville Dam Reservoir Regulation Manual USACE



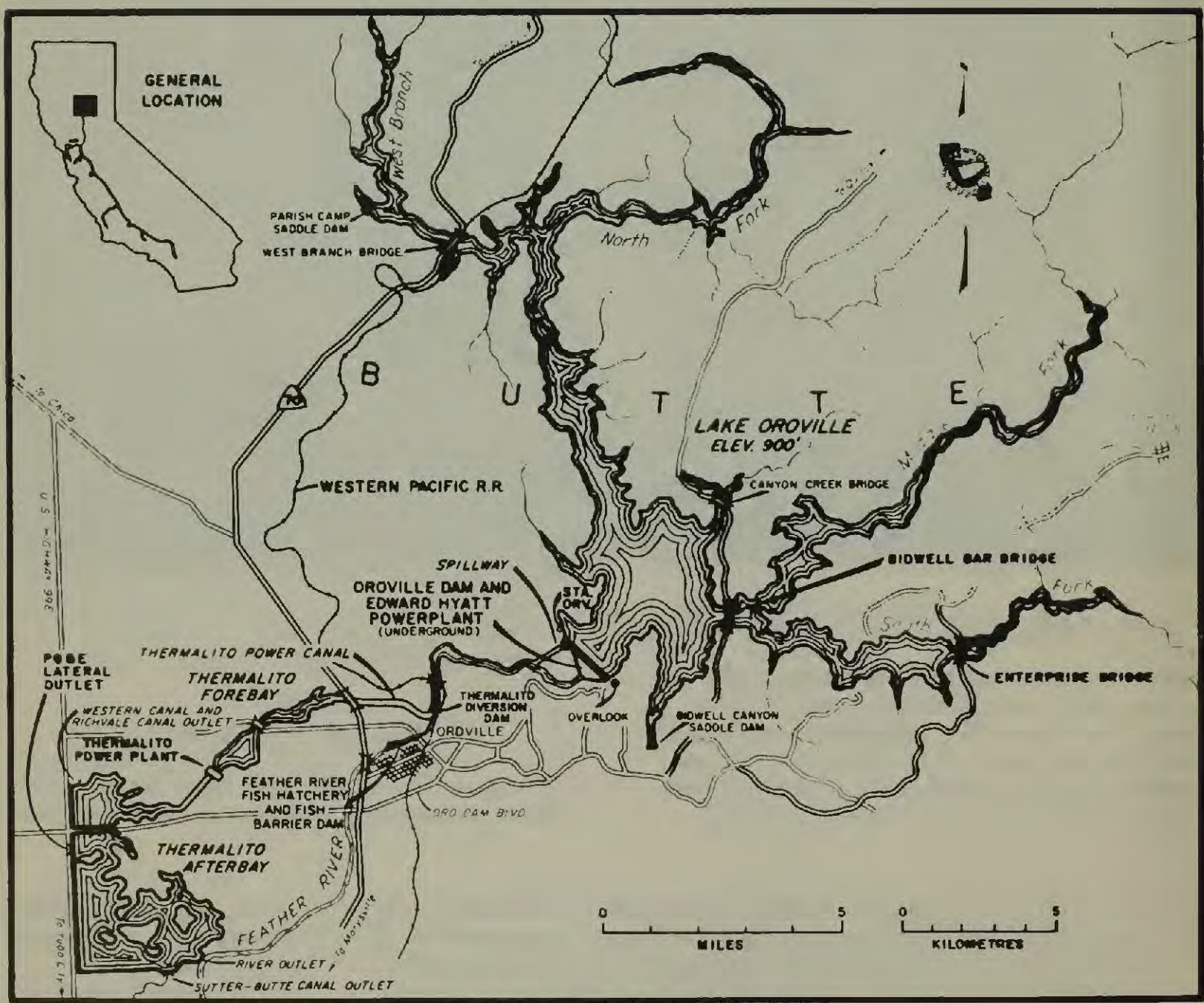
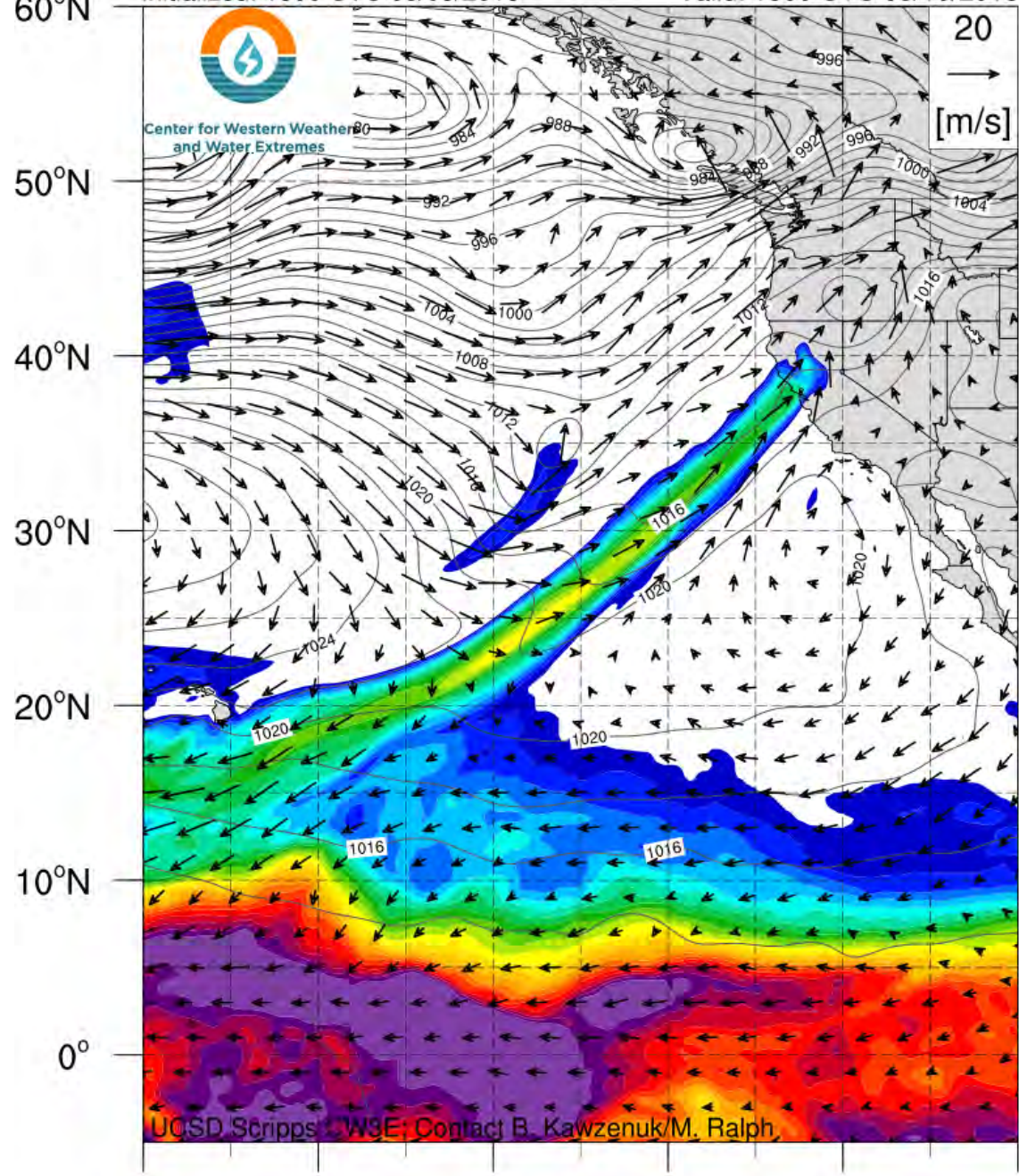


Figure 2. Location Map -- Oroville Facilities

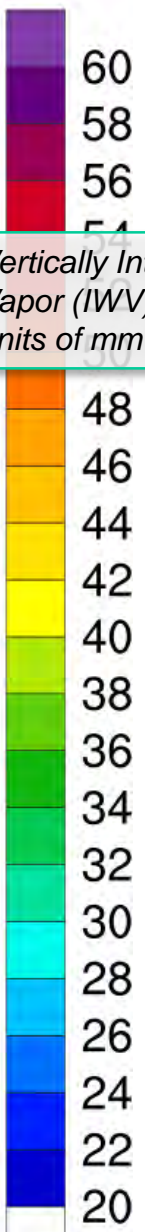
NCEP GFS IWV (mm; shaded), 850-hPa Wind (vectors), and SLP (hPa)

Initialized: 1800 UTC 03/09/2016

Valid: 1800 UTC 03/10/2016



Vertically Integrated Water Vapor (IWV); shaded in units of mm



UCSD Scripps / W3E; Contact B. Kawzenuk/M. Ralph

February

4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25

Cubic feet per second (cfs)

180,000

160,000

140,000

120,000

100,000

80,000

60,000

40,000

20,000

0

Between February 6-10, 12.8 inches of rain fall in the Feather River Basin

Inflows to Lake Oroville reach 190,435 cfs, significantly higher than forecasted

Mandatory evacuation order is issued

Flood Control Spillway outflows raised to 100,000 cfs to ease pressure on Emergency Spillway

Flood Control Spillway inspection

INFLOWS

OUTFLOWS

1

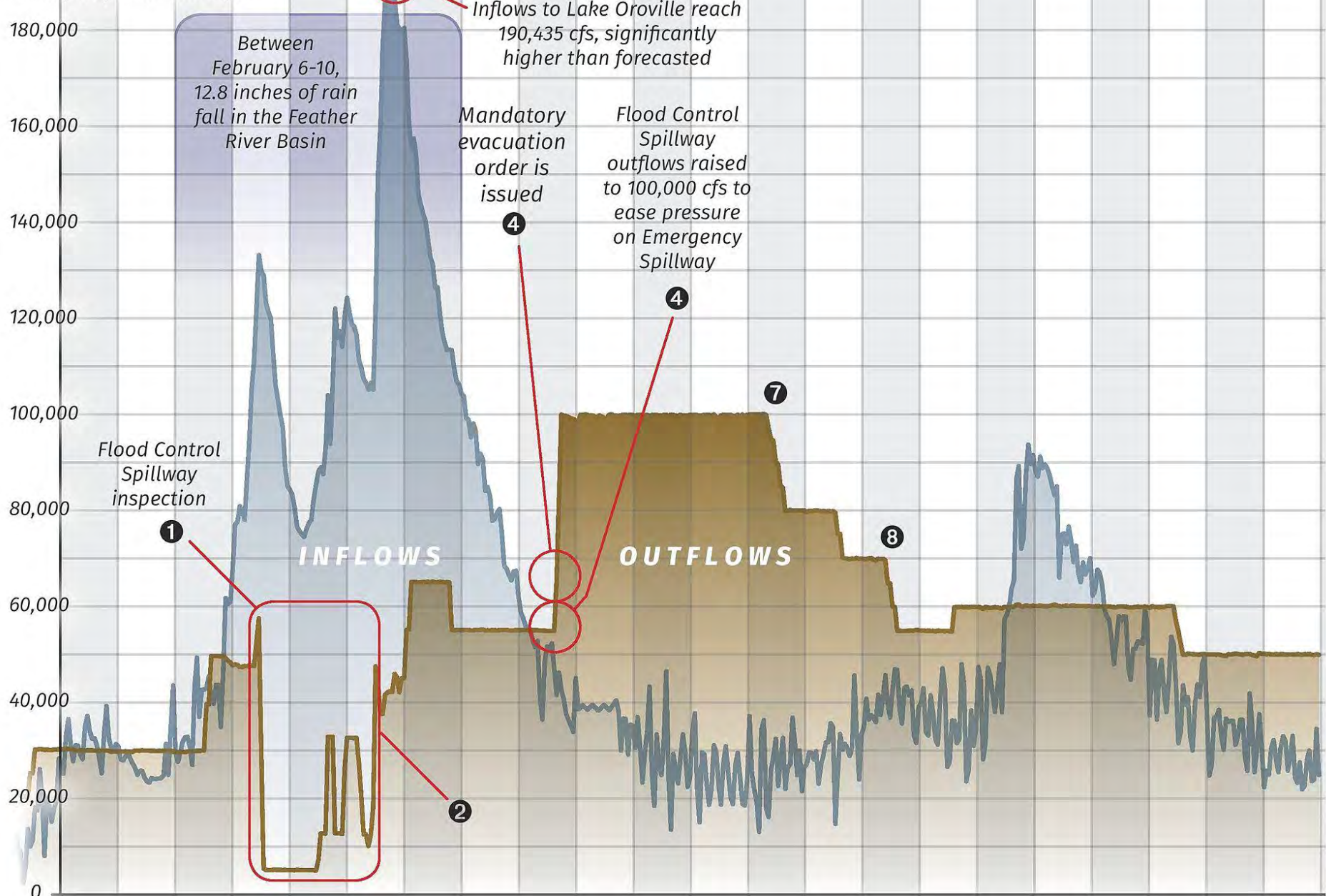
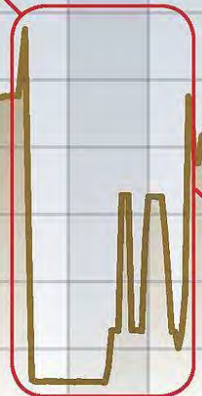
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4

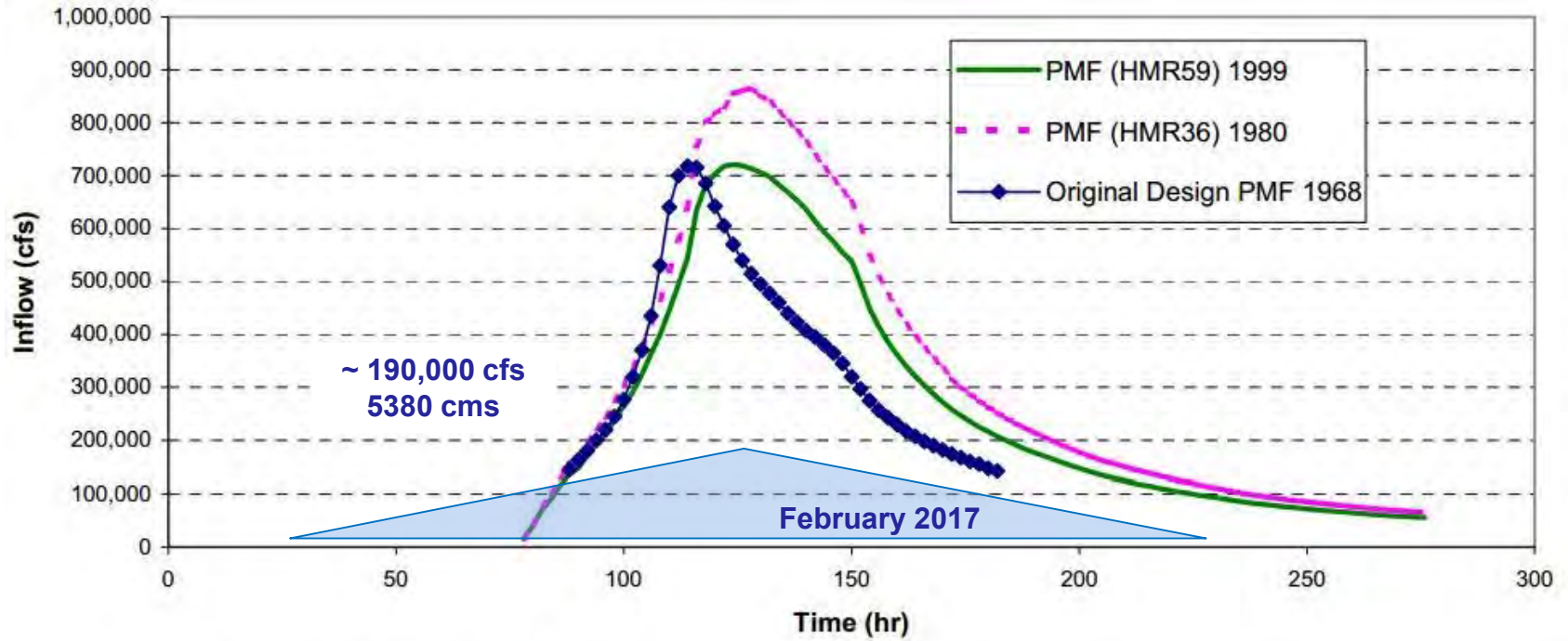
4

7

8



1 CMS = 35 CFS

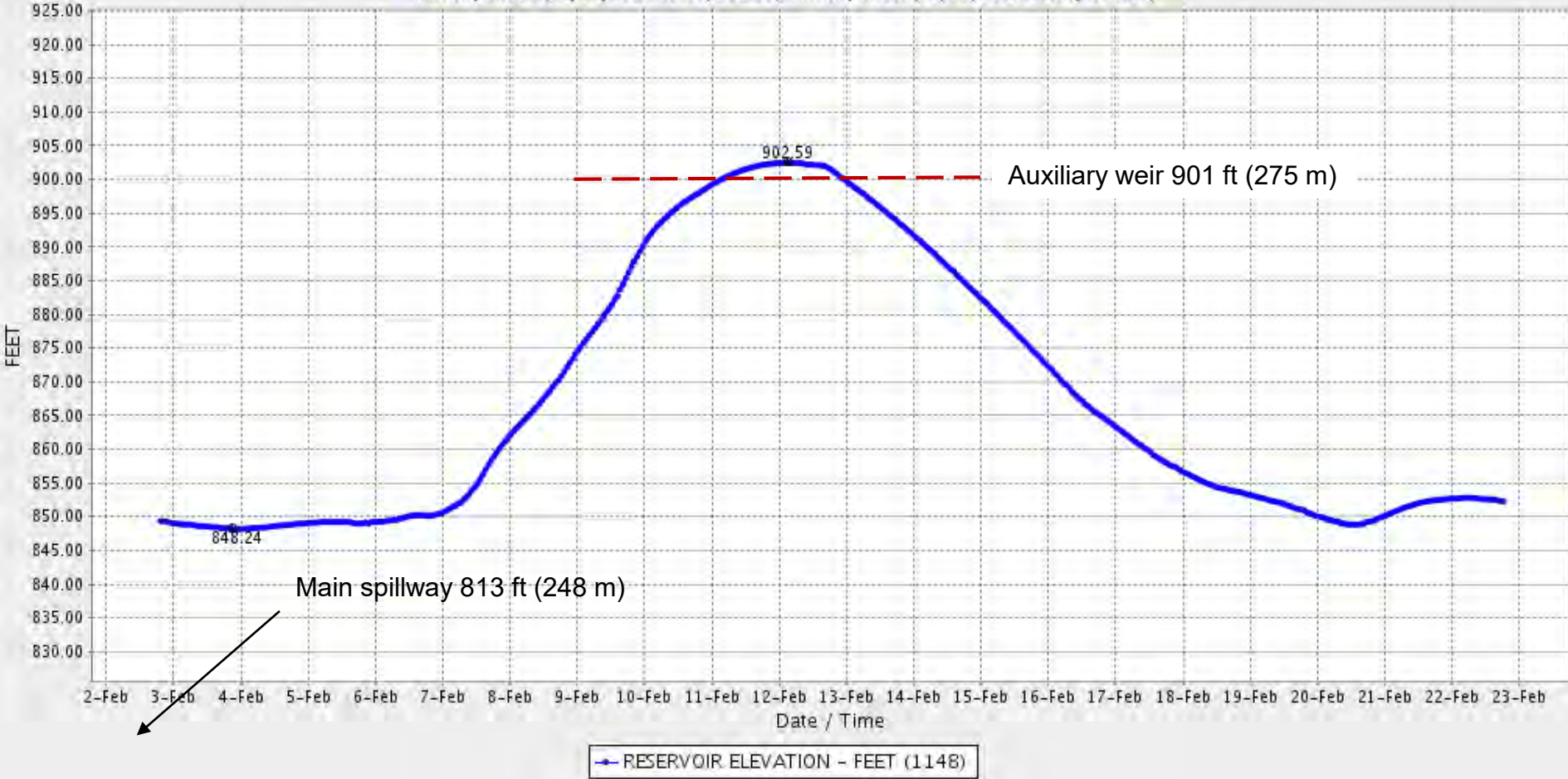


Source: DWR 2003a

OROVILLE DAM (ORO)

Date from 02/02/2017 18:43 through 02/22/2017 18:43 Duration : 20 days

Max of period : (02/12/2017 03:00, 902.59) Min of period: (02/03/2017 21:00, 848.24)





Main (service) spillway
Eight Tainter gates
(4,200 cms = 150,000 cfs)

