

RECLAMATION

Managing Water in the West

Flaming Gorge Working Group Meeting

Hydrology and Forecasted
Operations

April 27, 2010



U.S. Department of the Interior
Bureau of Reclamation

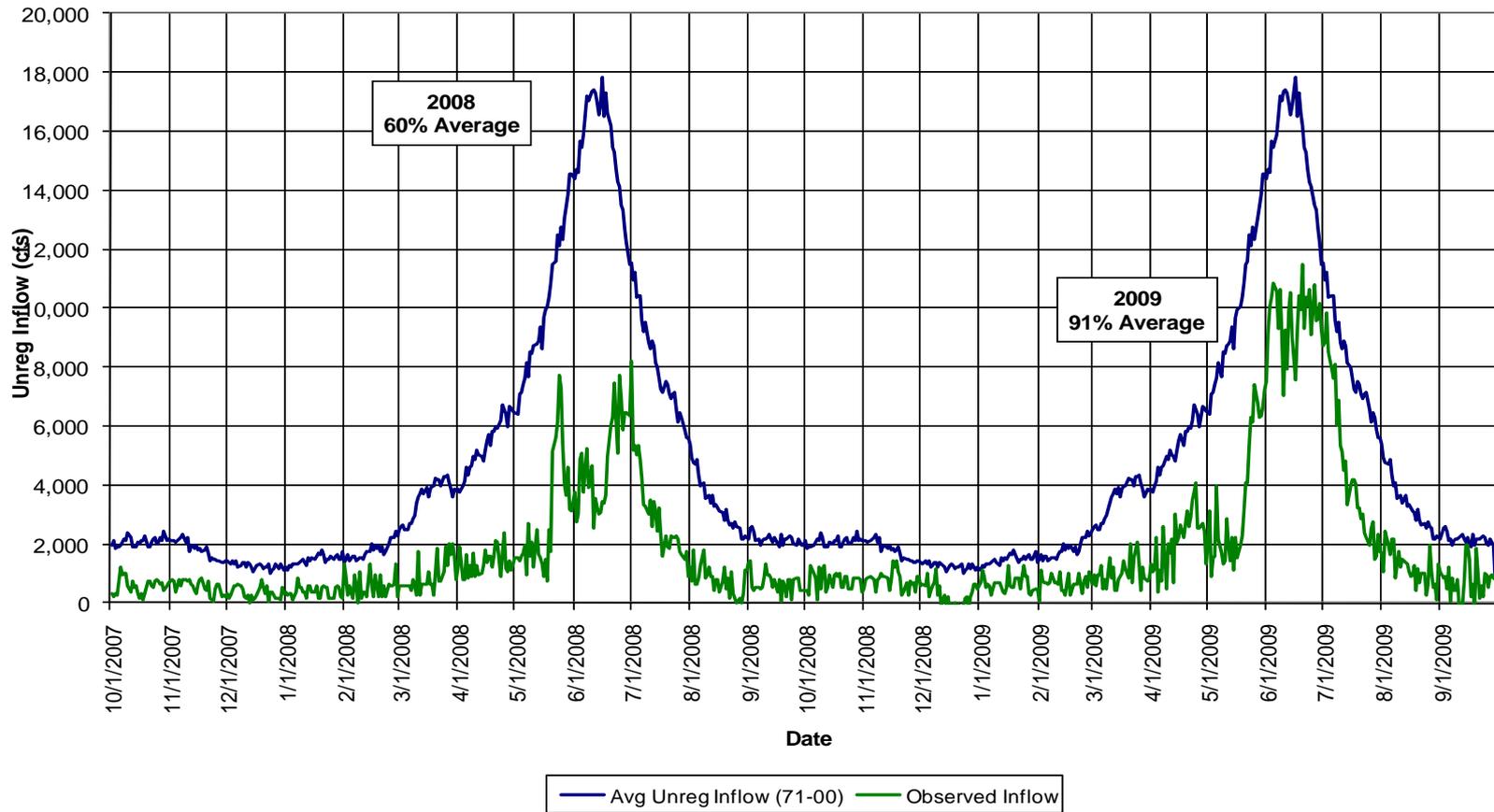
Flaming Gorge Working Group Meeting April 2010

Live Capacity	3.752	MAF
<u>Capacity on 4/26/10</u>	<u>3.220</u>	<u>MAF</u>
Available Space	.532	MAF
Percentage of Full	86	%
Reservoir Elev. (Min Power)	5908.00	feet
<u>Elevation on 4/26/10</u>	<u>6026.61</u>	<u>feet</u>
Elevation above (Min)	118.61	feet
Average Inflow	1,650	cfs
Average Release	810	cfs

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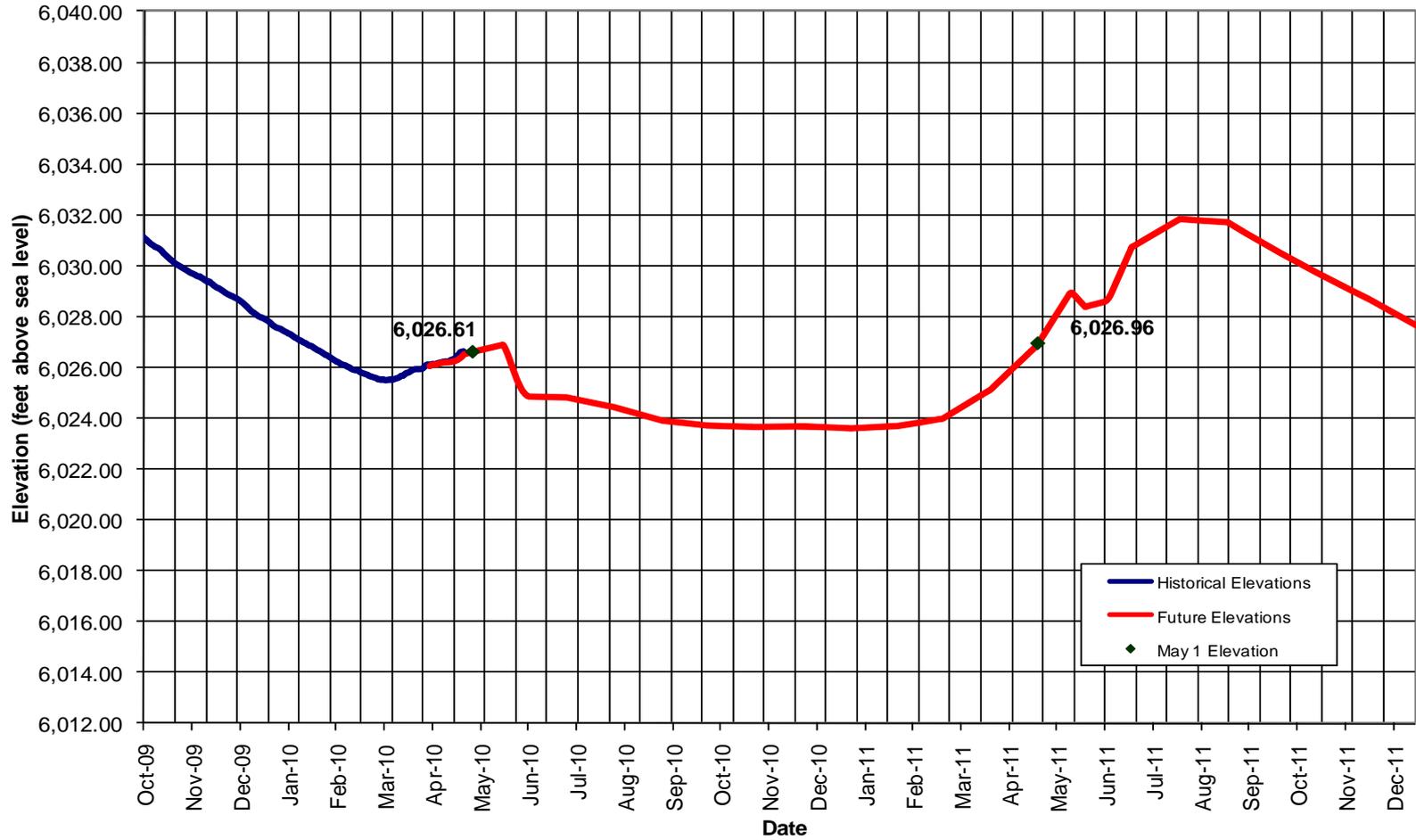
Flaming Gorge Working Group

Flaming Gorge Unregulated Inflow
Water Year 2008 and 2009

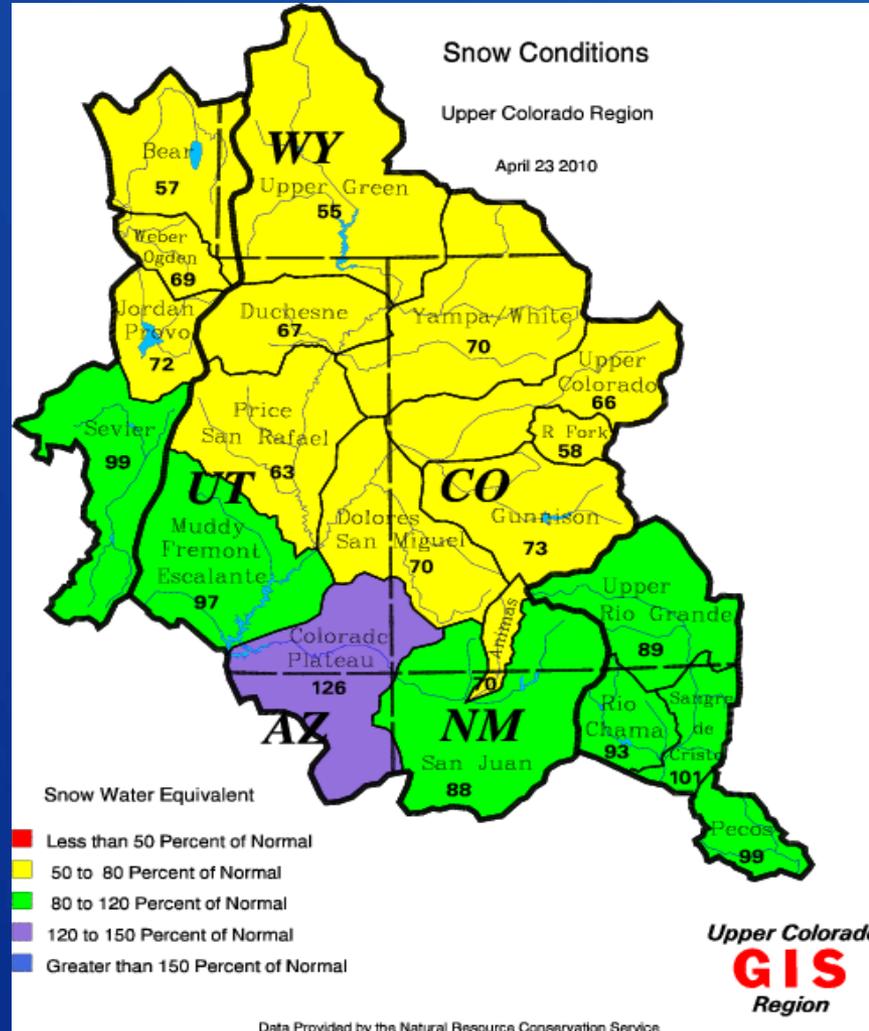


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Flaming Gorge Operations WY2010, 2011
Most Probable Operations April 2010



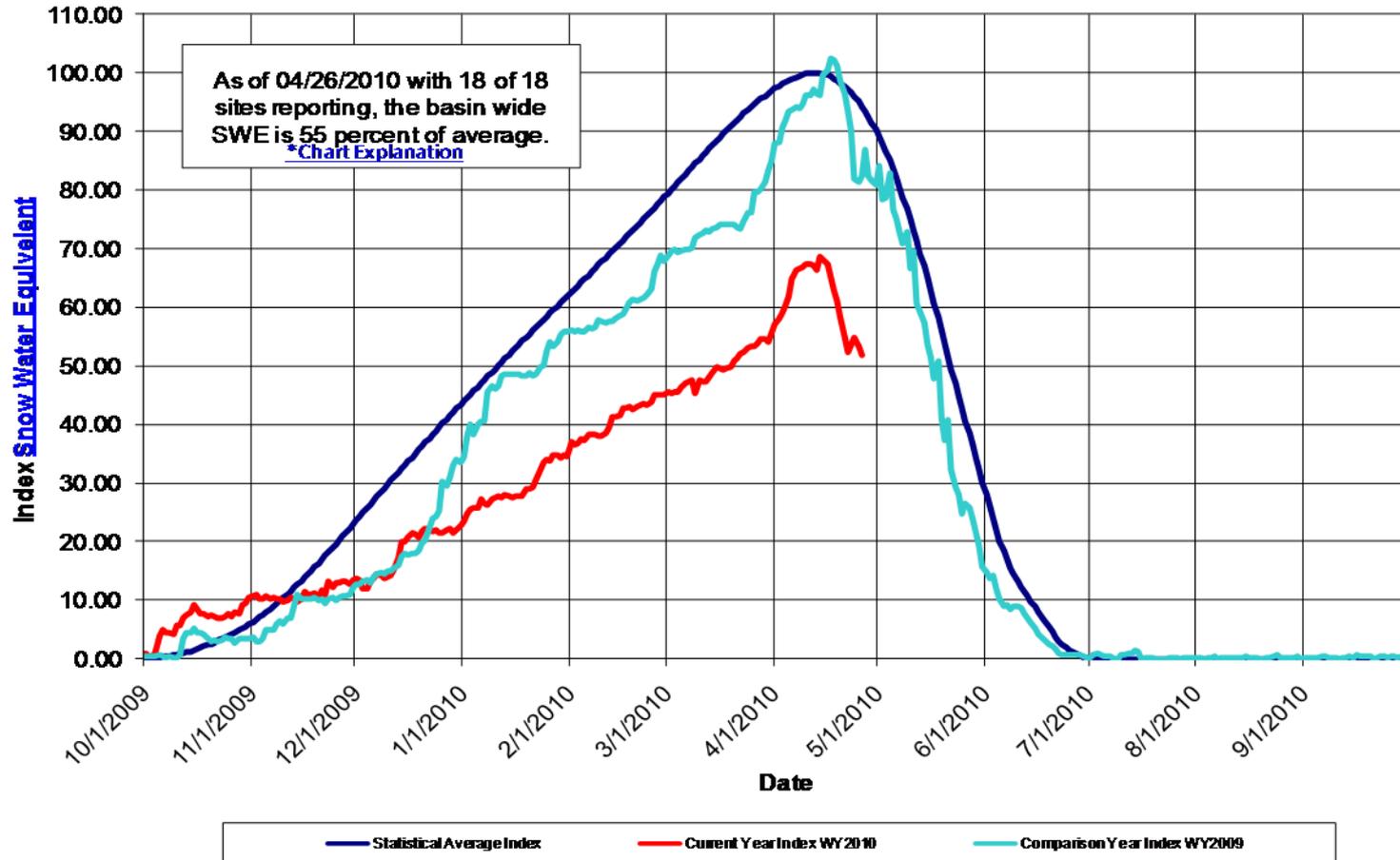
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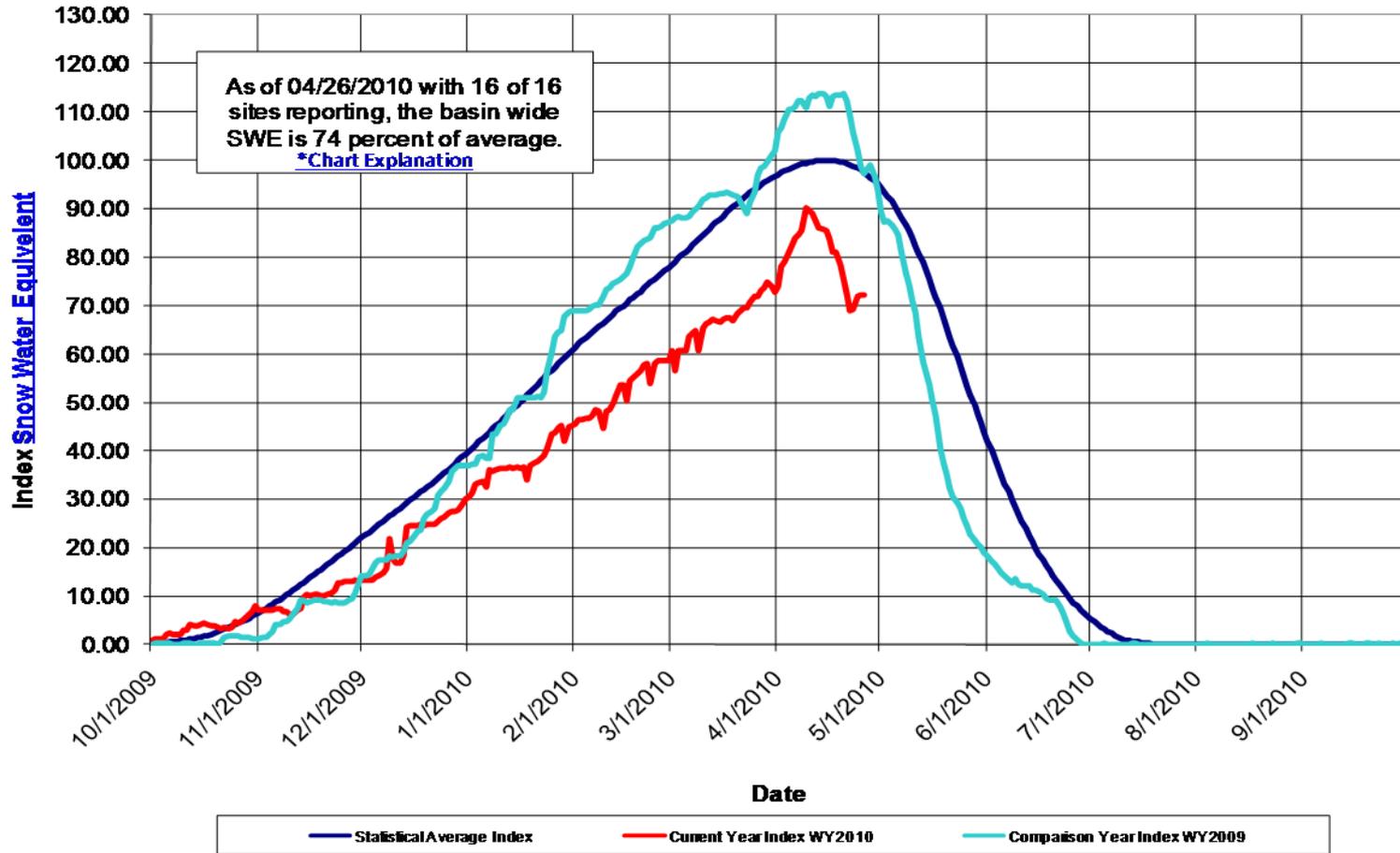
Upper Green River Basin Snotel Tracking
Aggregate of 18 Snotel Sites above Flaming Gorge Reservoir



Data Provided by the Natural Resource Conservation Service

Flaming Gorge Working Group

Upper Yampa River Basin Snotel Tracking
Aggregate of 16 Snotel Sites above Green River Confluence

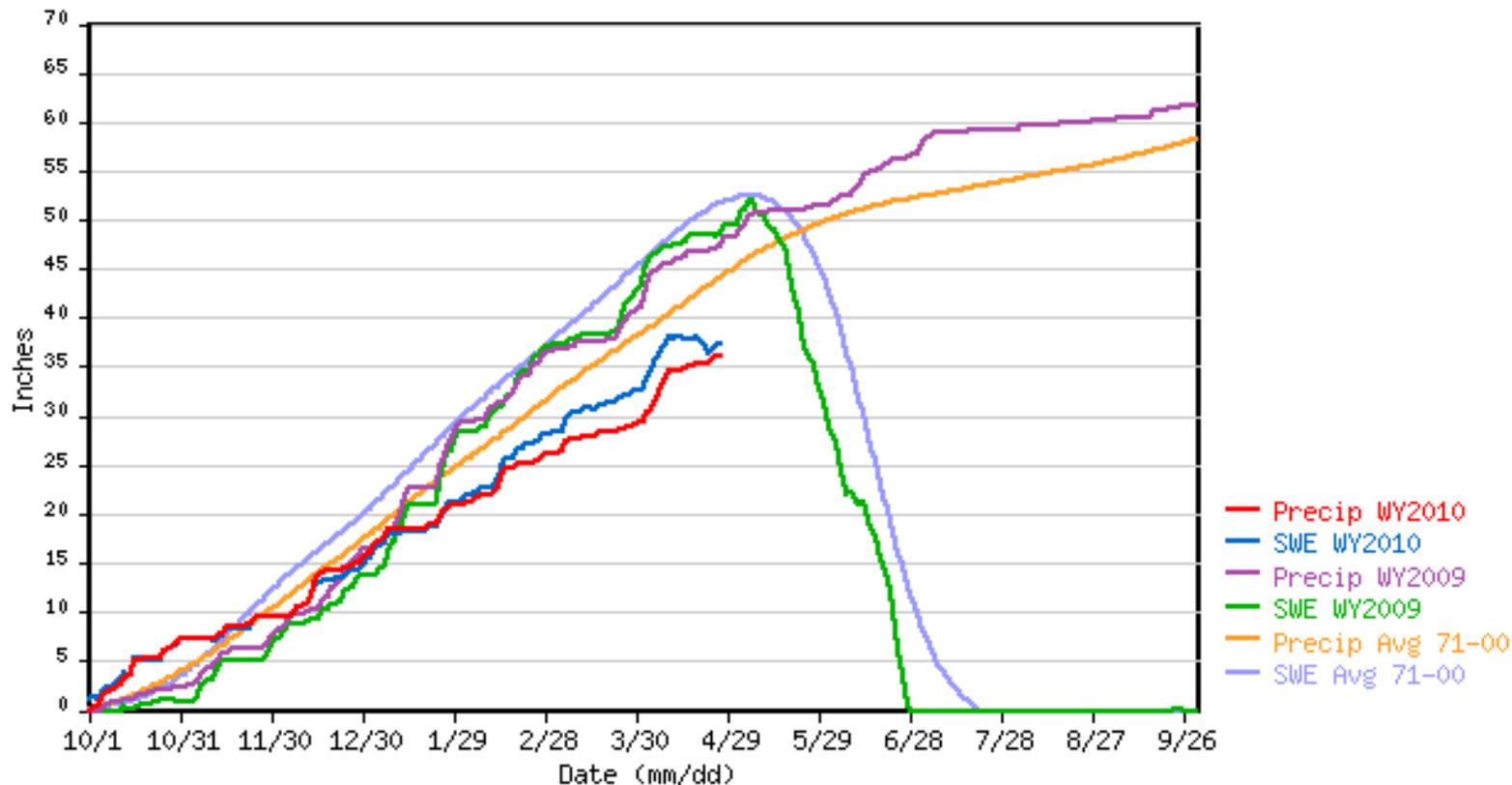


Data Provided by the Natural Resource Conservation Service

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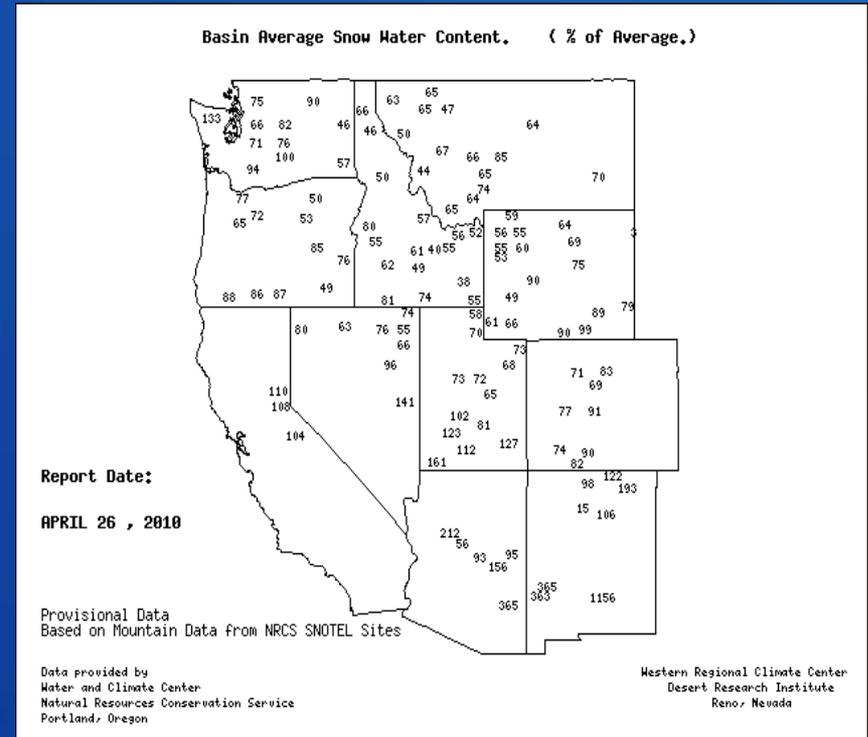
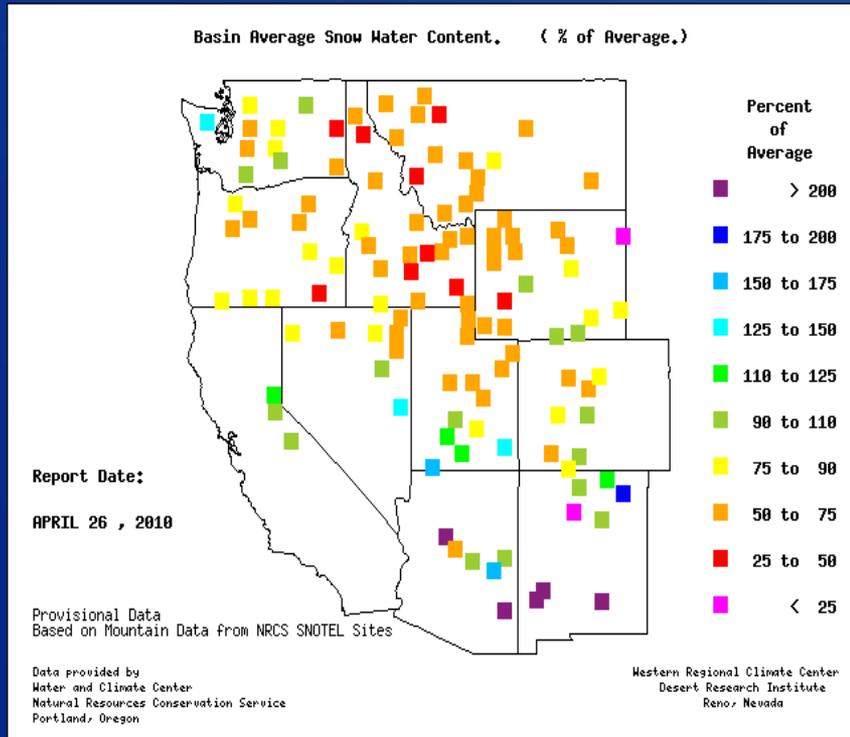
TOWER SNOTEL as of 04/26/2010

*** Provisional Data, Subject to Change ***



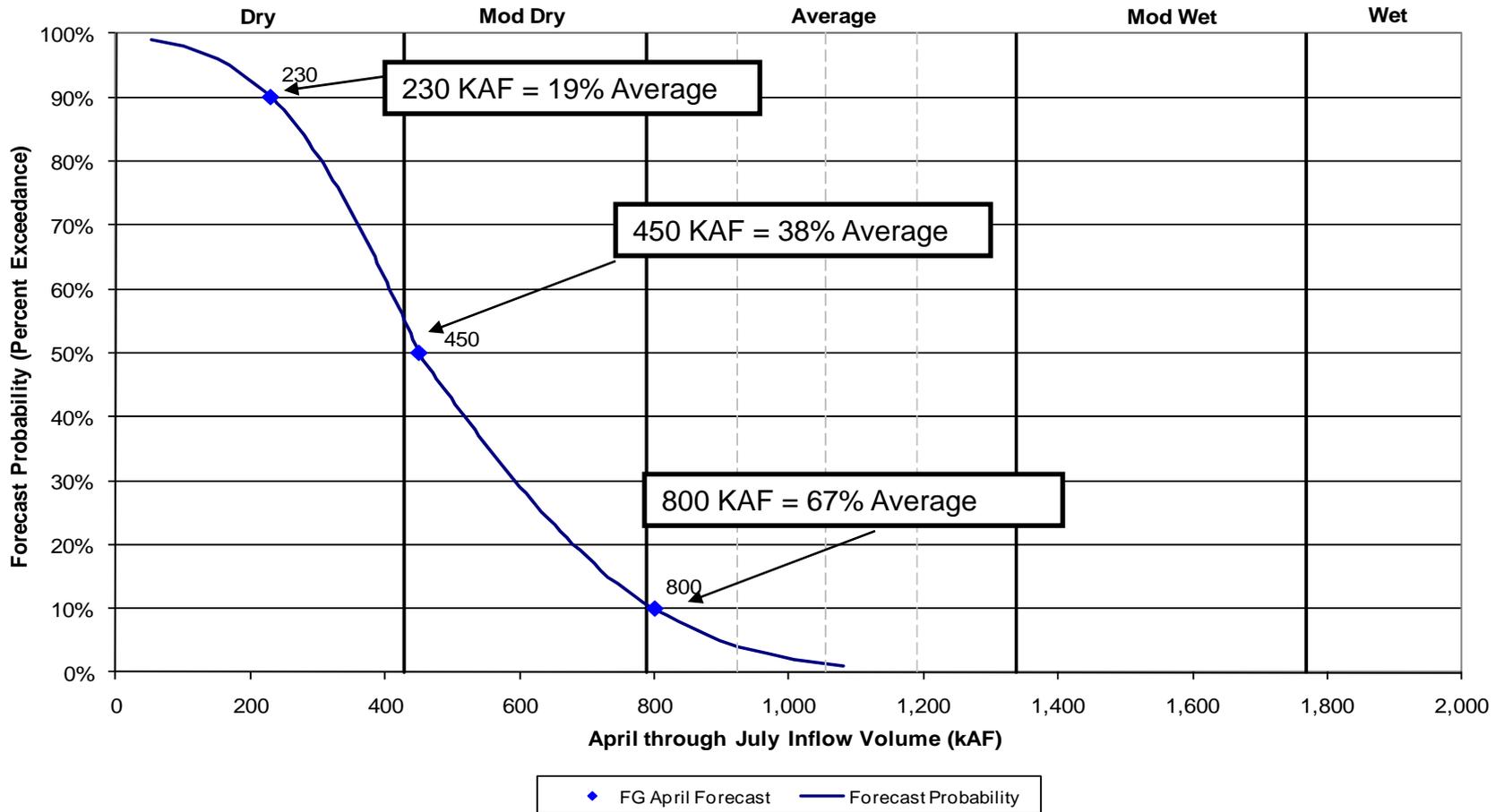
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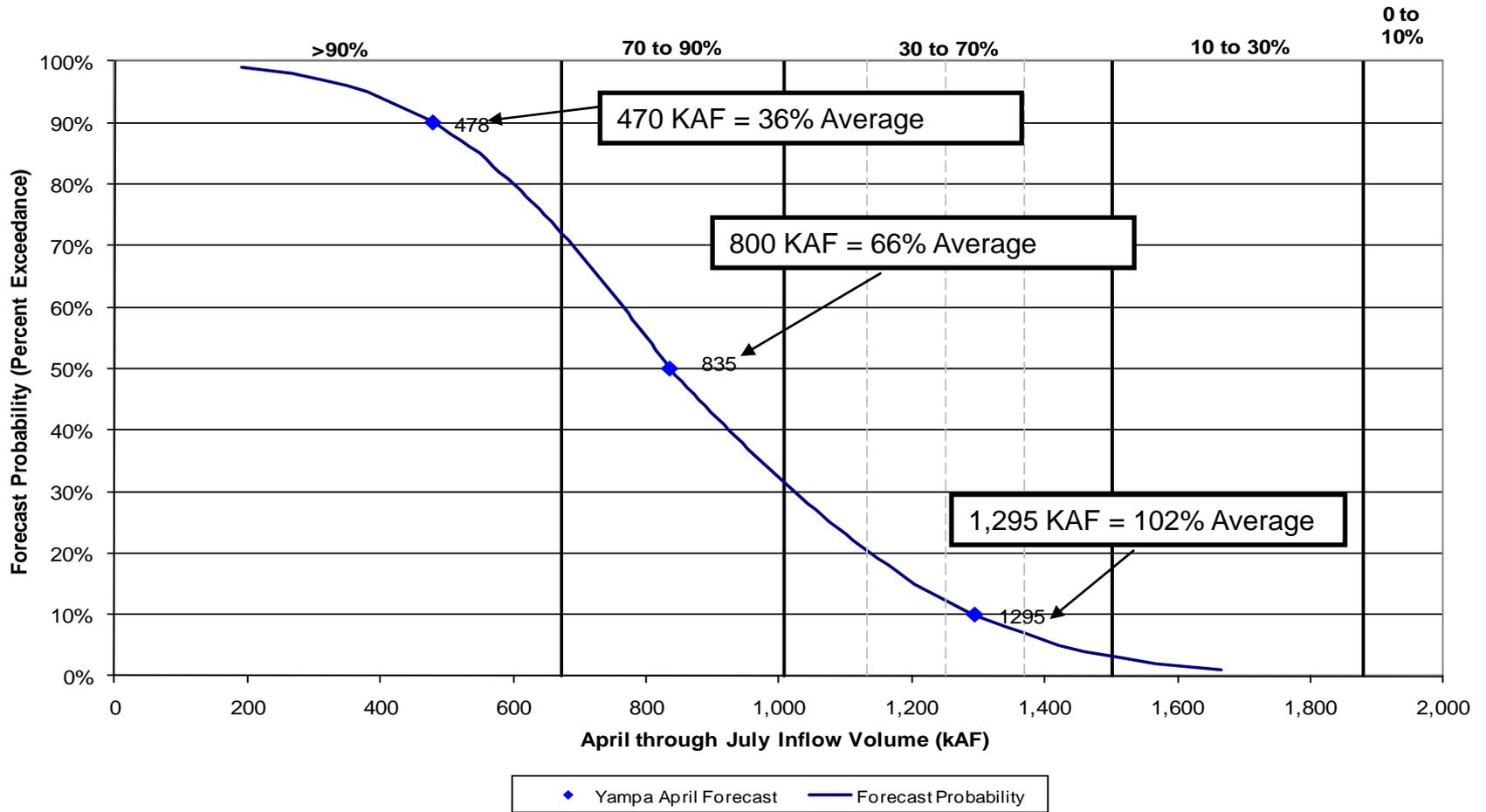
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Flaming Gorge Reservoir
April through July Historic Inflow (1963-2009)
Related to Flow Recommendation Percent Exceedances



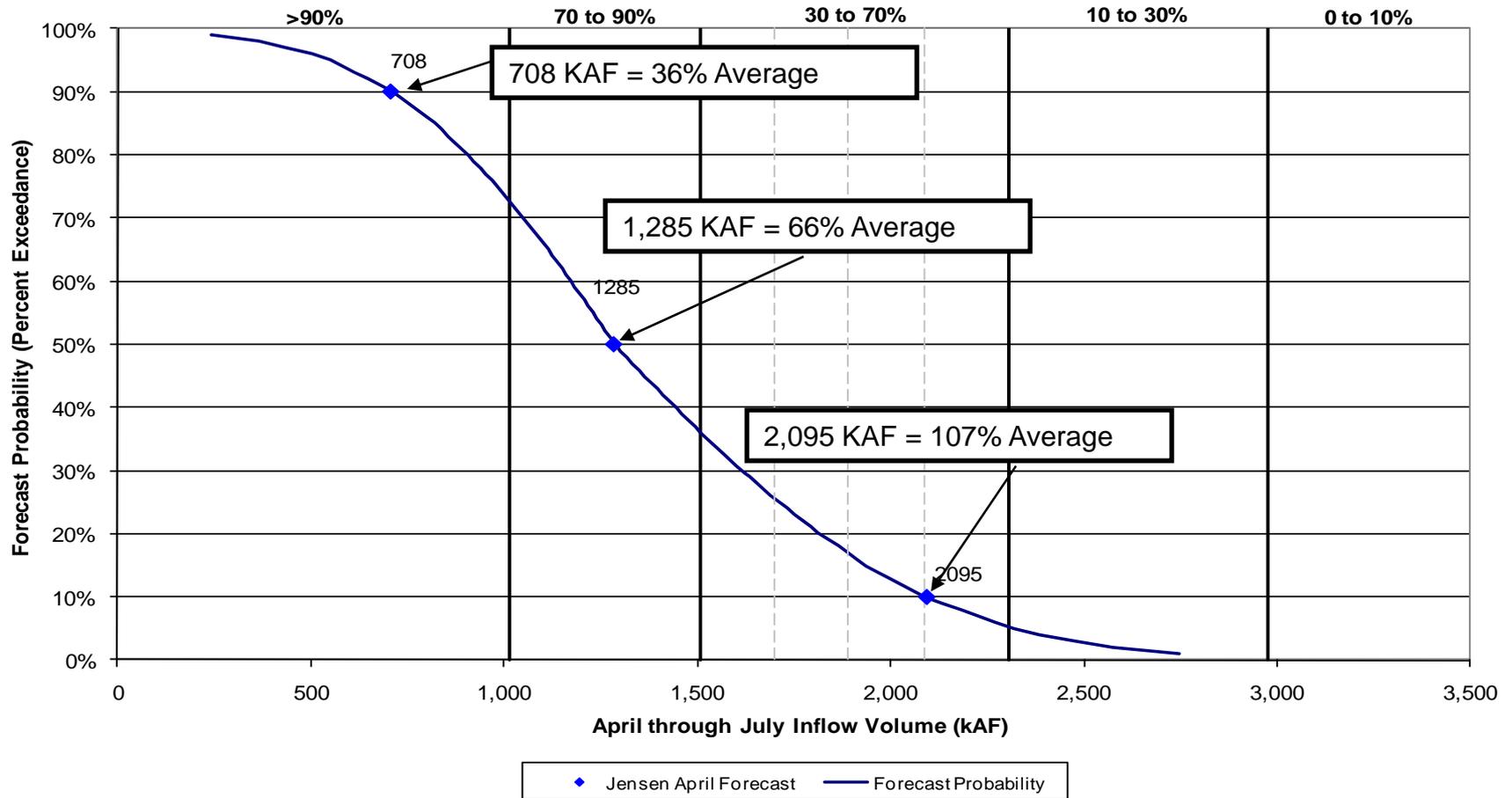
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Yampa River - Maybell Plus Lily
April through July Historic Inflow (1922-2009)
Related to Flow Recommendation Percent Exceedances



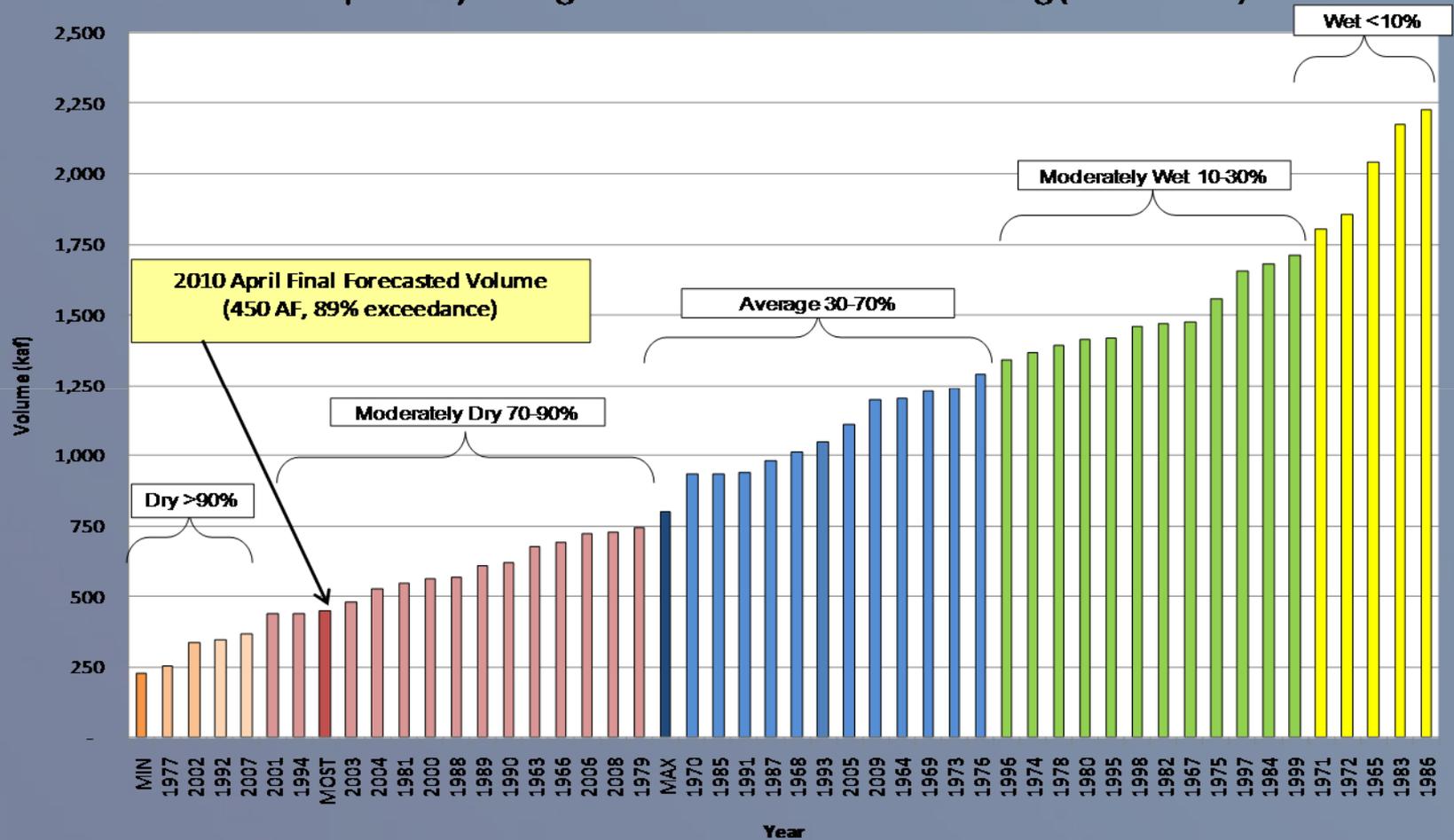
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Green River at Jensen, Utah
April through July Historic Inflow (1947-2009)
Related to Flow Recommendation Percent Exceedances



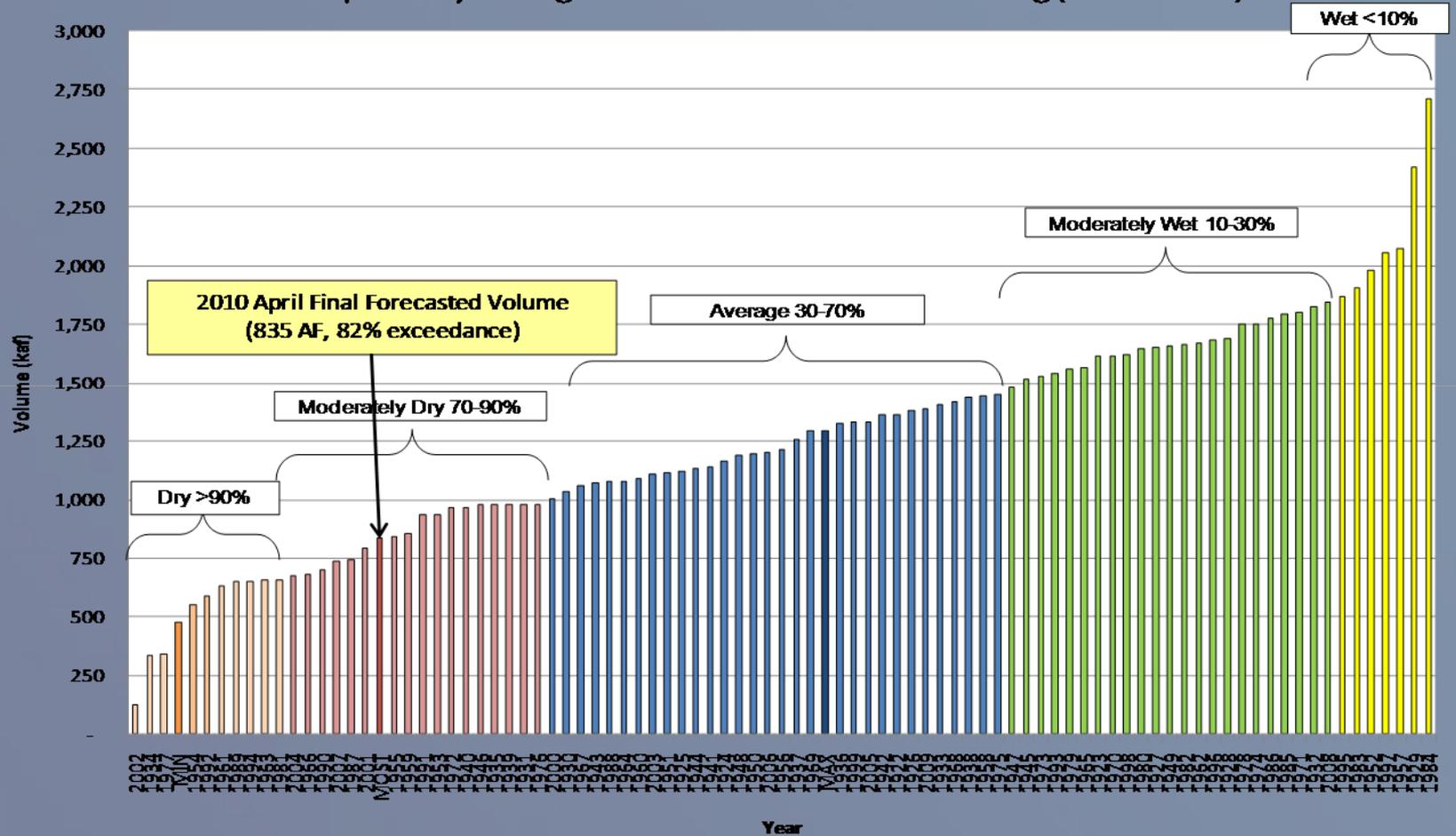
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Flaming Gorge Reservoir
Historic April-July Unregulated Inflow Volume Ranking (1963-2009)



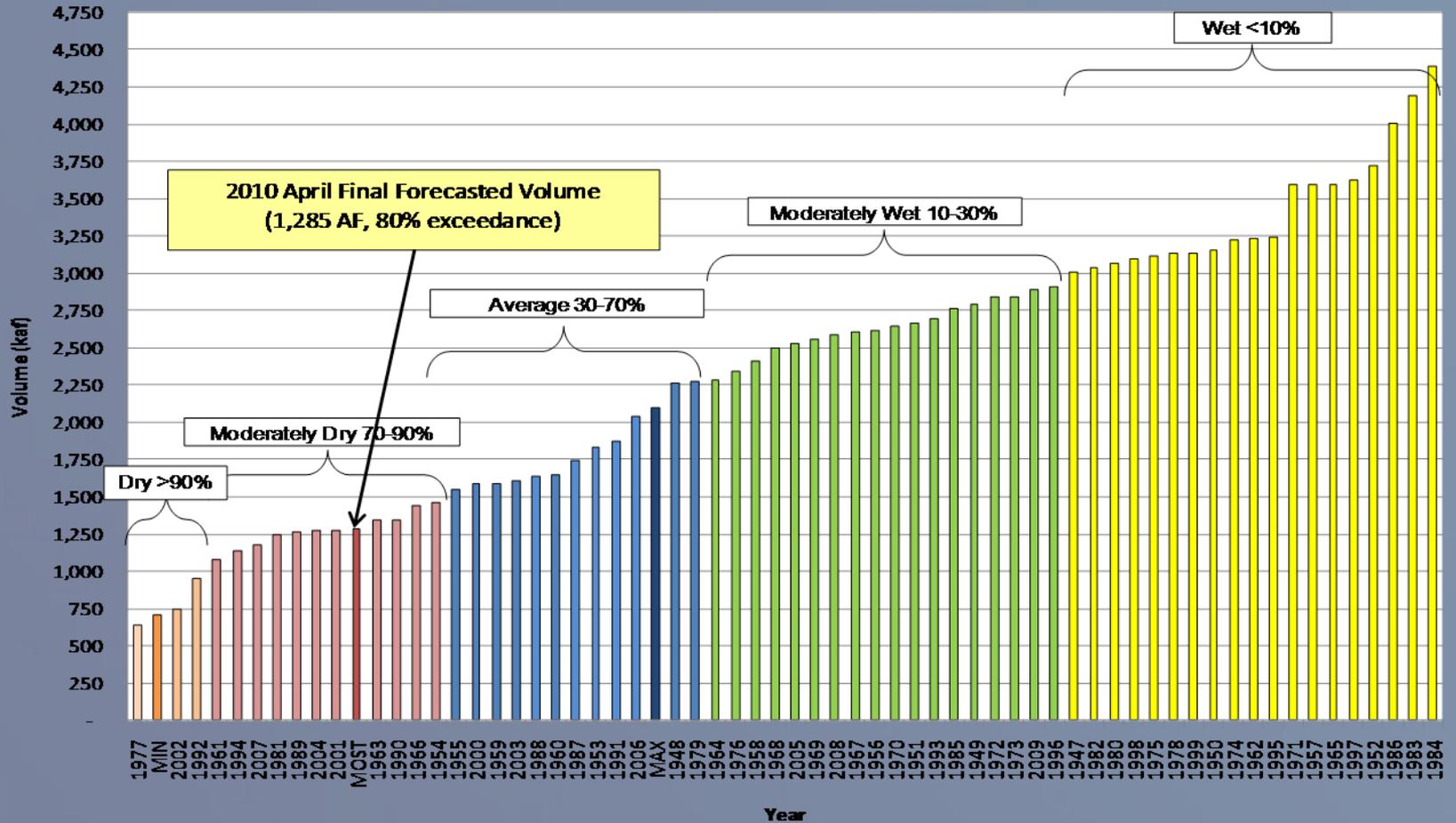
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Yampa River Basin - Maybell Plus Lily
Historic April-July Unregulated Inflow Volume Ranking (1922-2009)



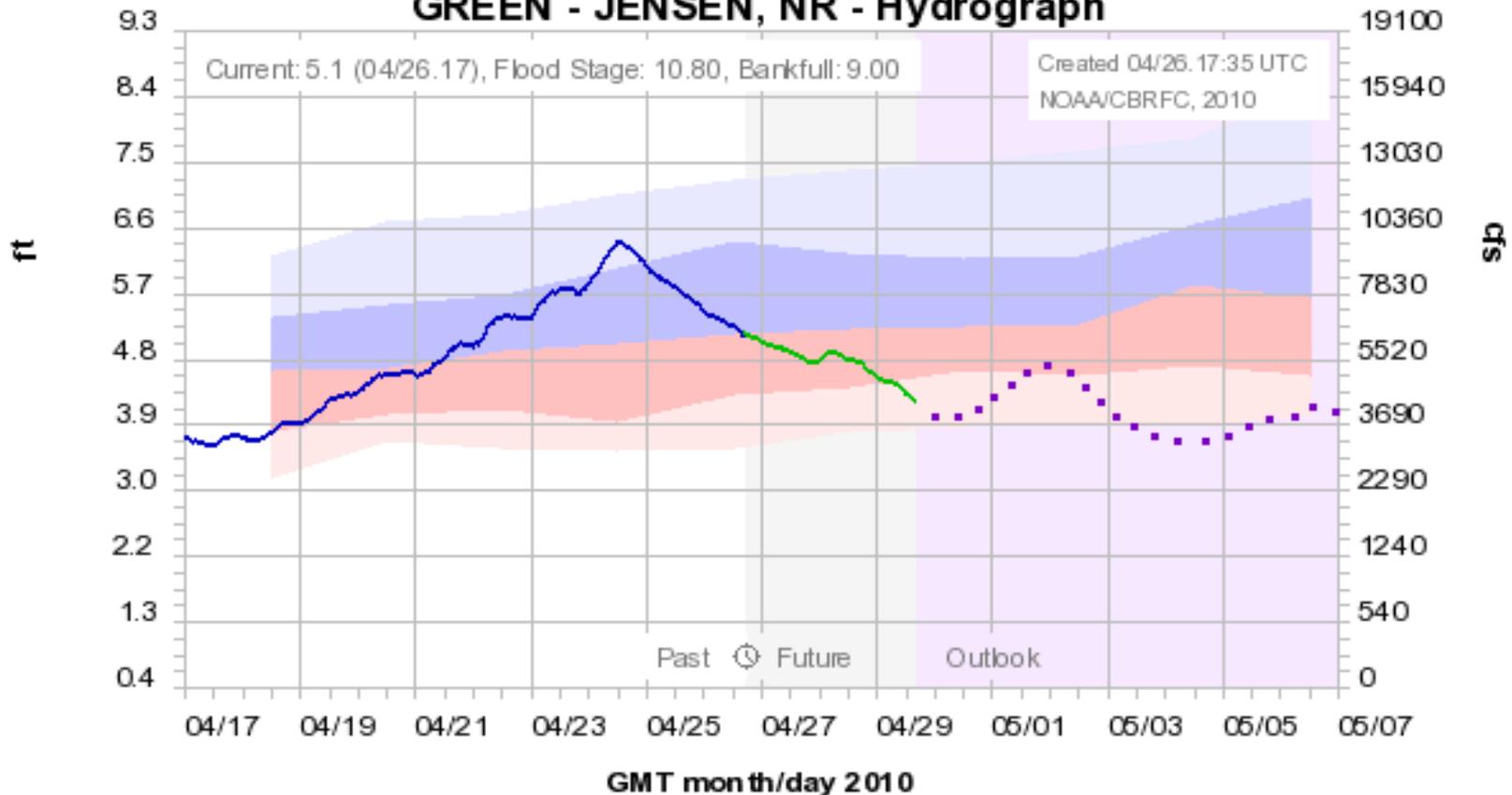
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Green River at Jensen, UT
Historic April-July Unregulated Inflow Volume Ranking (1947-2009)



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Colorado Basin River Forecast Center GREEN - JENSEN, NR - Hydrograph



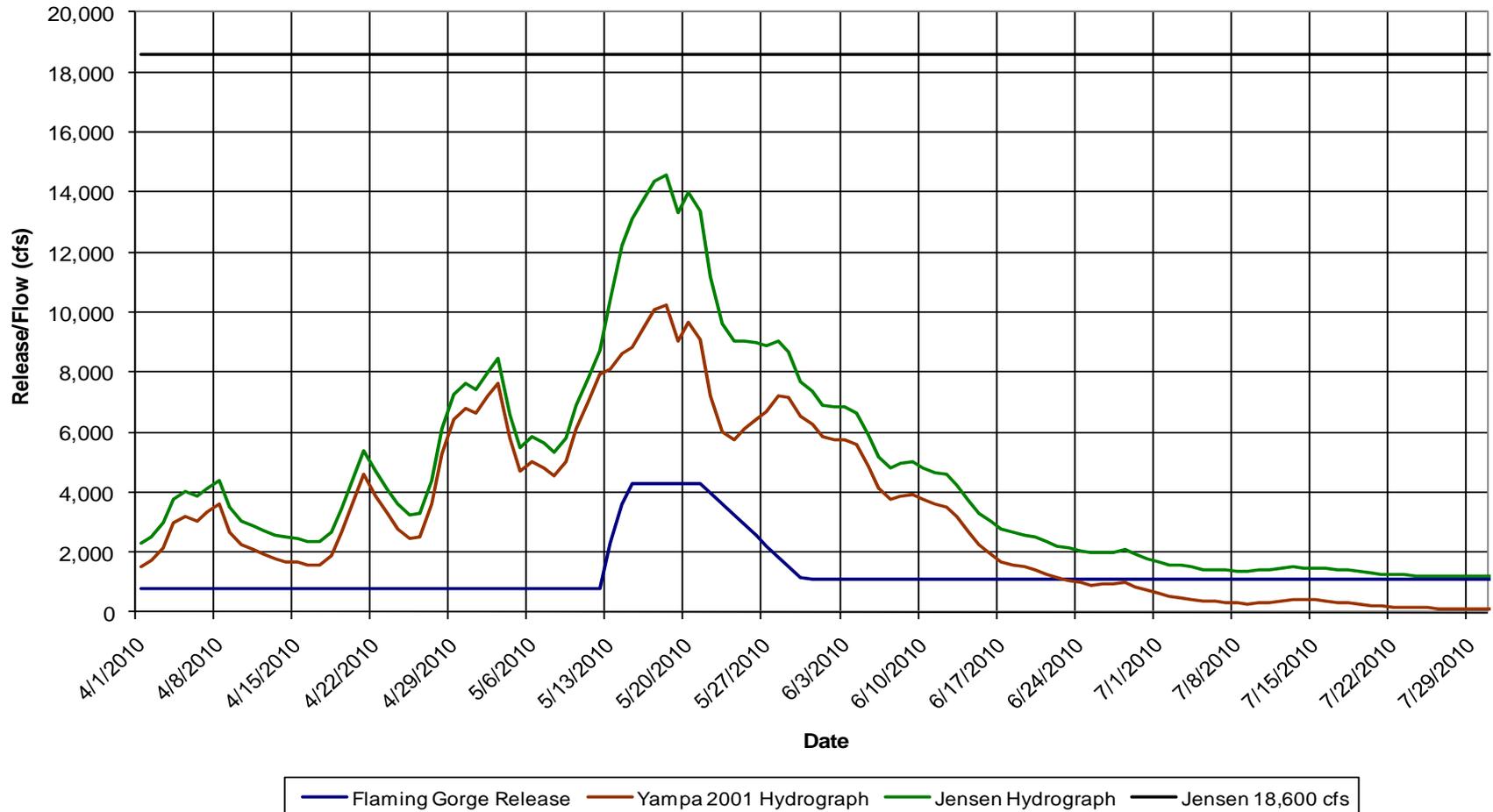
Observed — Forecast (04/26.14:00) — Outlook (increasing uncertainty) ..

Historical Exceedance Probability (USGS): 90-75% 75-50% 50-25% 25-10%

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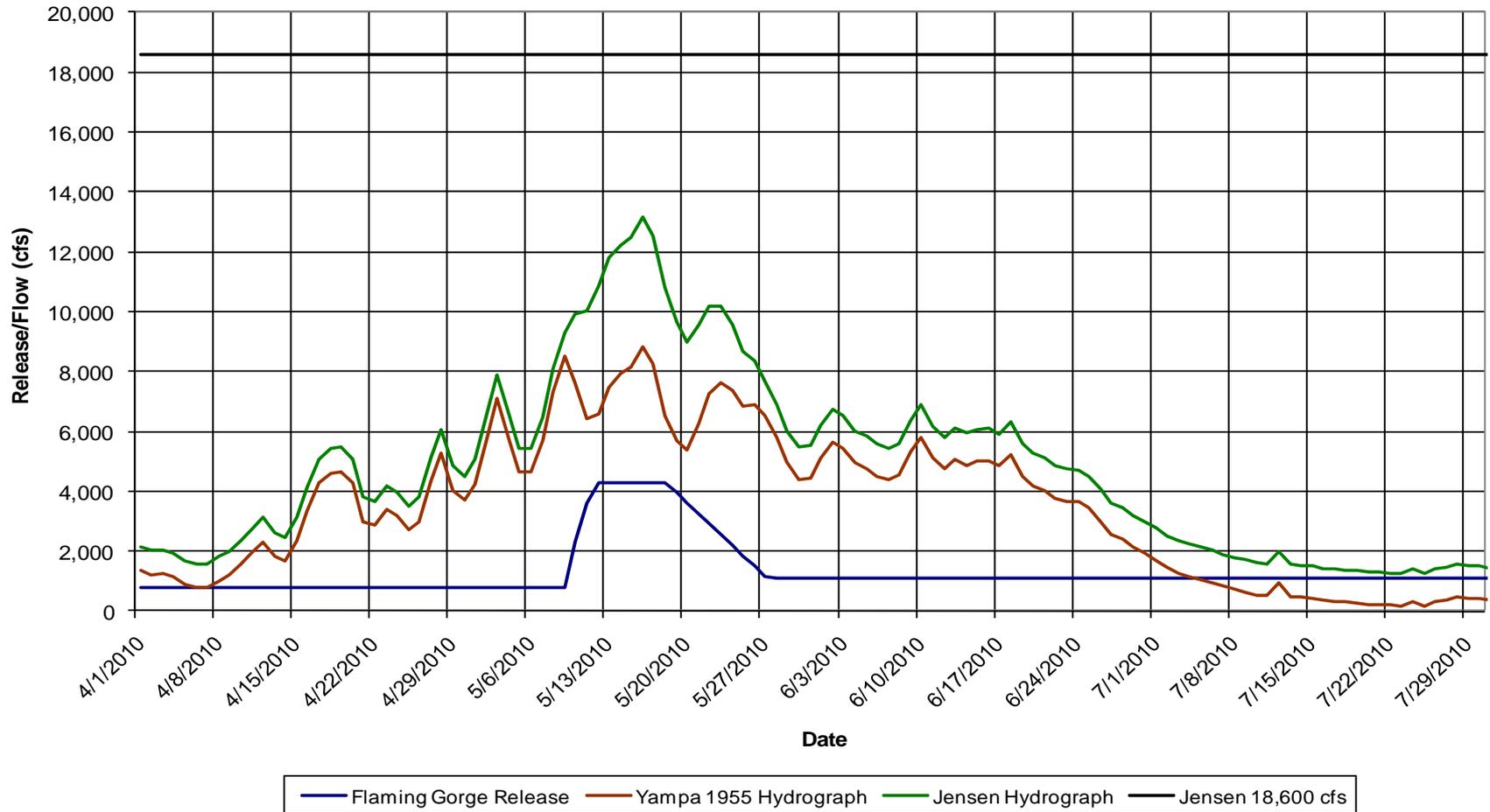
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Flaming Gorge Most Probable Operations
(2001 Hydrograph--Yampa April-July Inflow Volume 790 kaf)



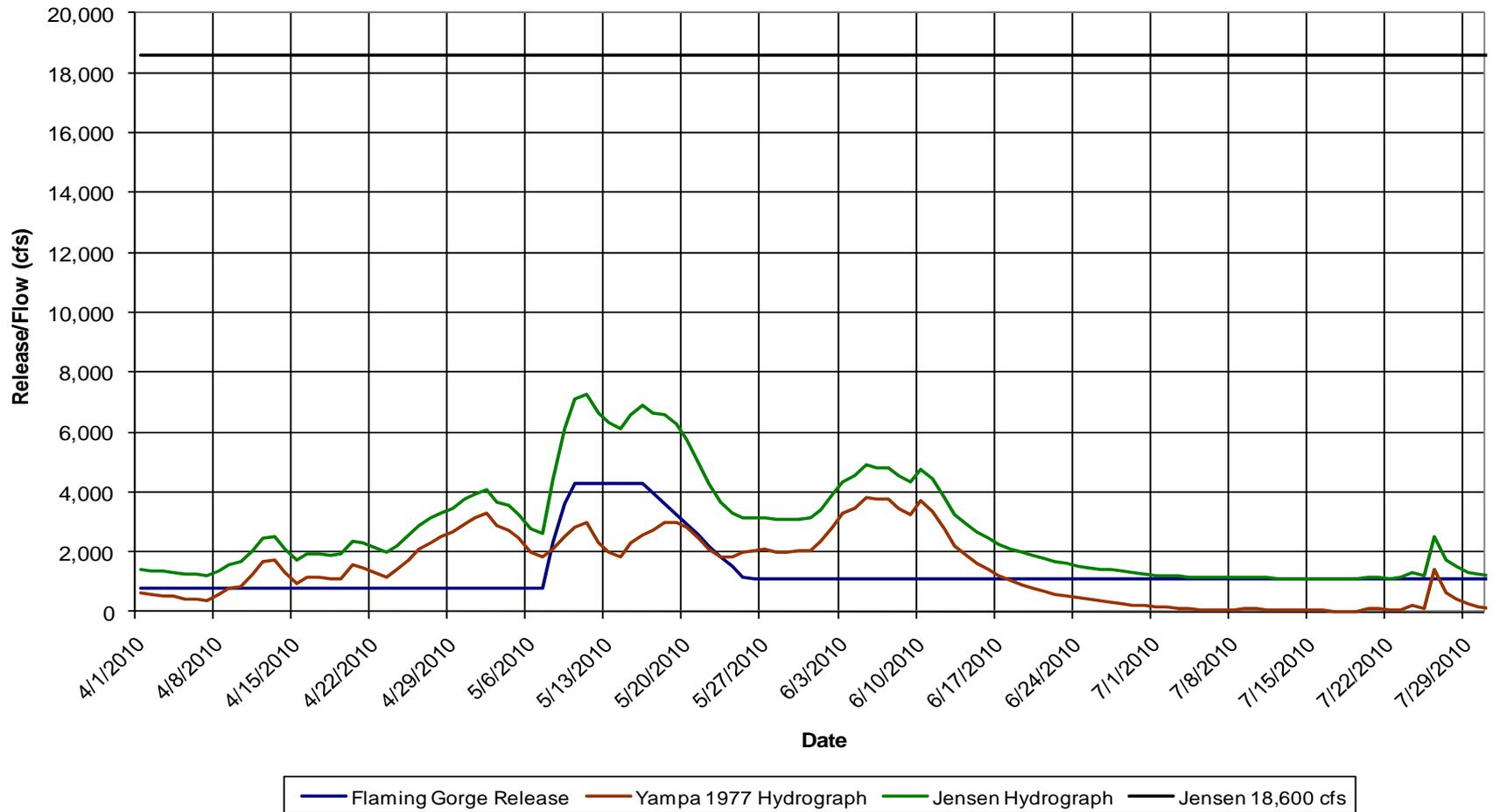
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Flaming Gorge Most Probable Operations
(1955 Hydrograph--Yampa April-July Inflow Volume 845 kaf)



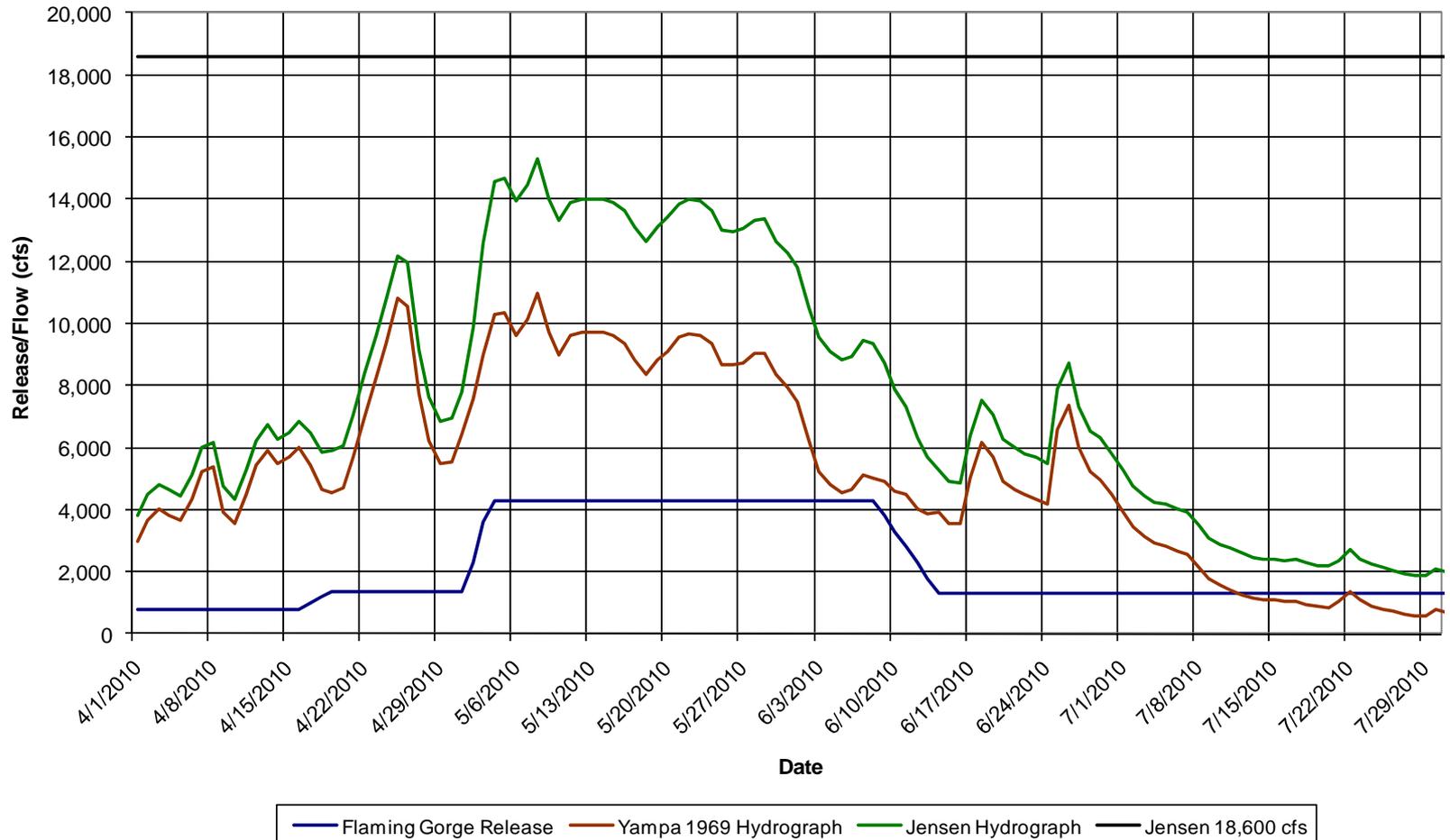
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Flaming Gorge Minimum Probable Operations
(1977 Hydrograph--Yampa April-July Inflow Volume 339 kaf)

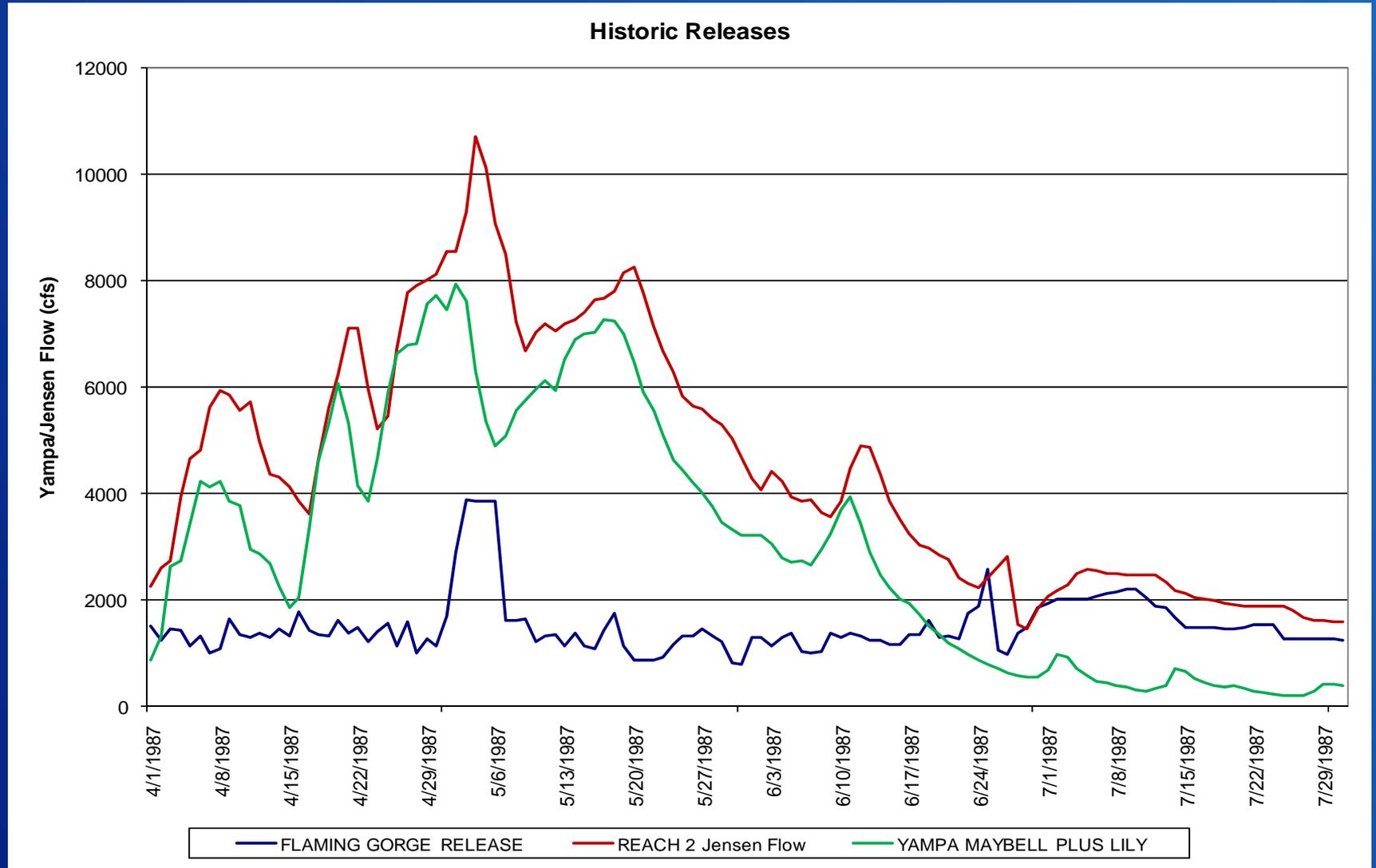


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Flaming Gorge Maximum Probable Operations
(1969 Hydrograph--Yampa April-July Inflow Volume 1,291 kaf)

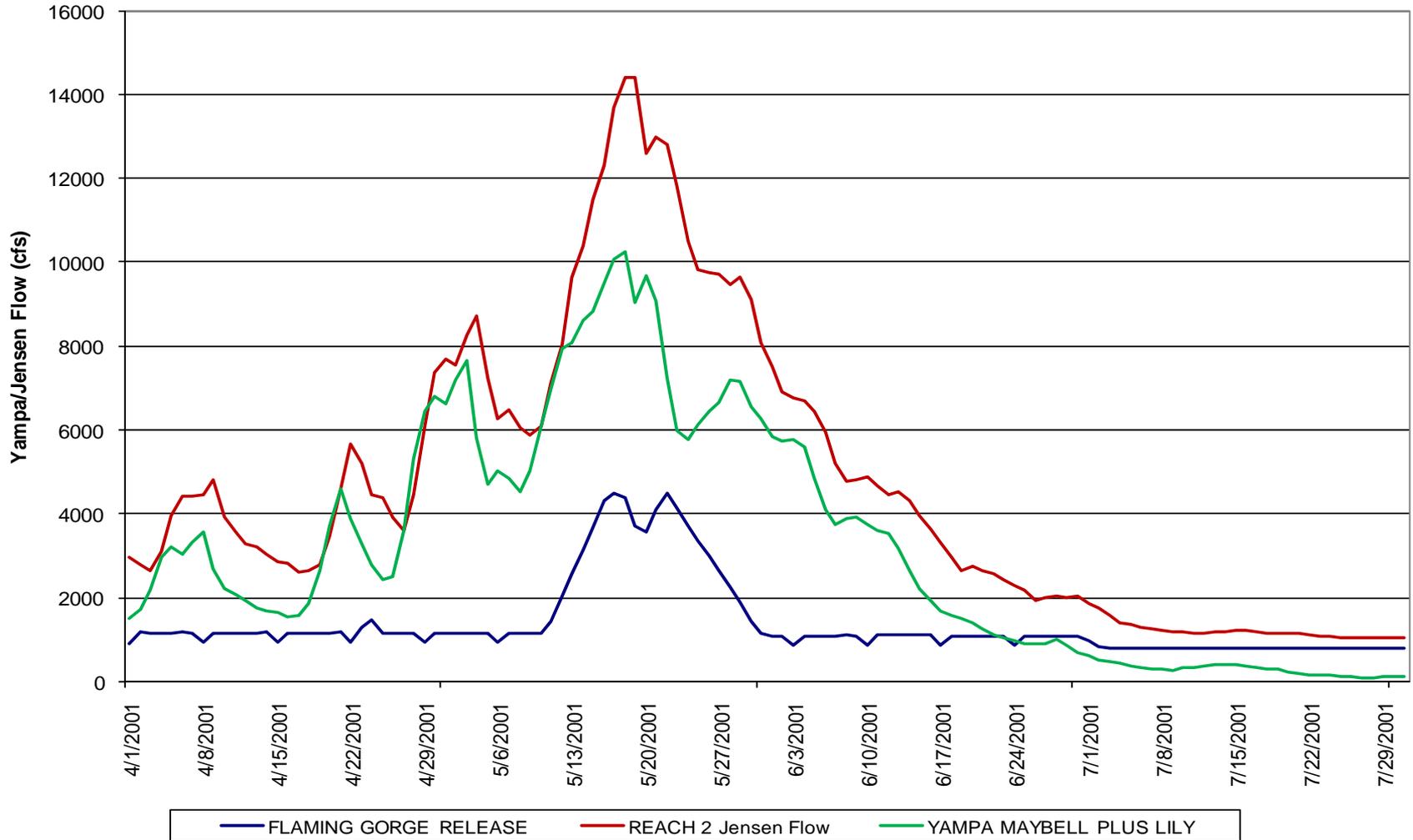


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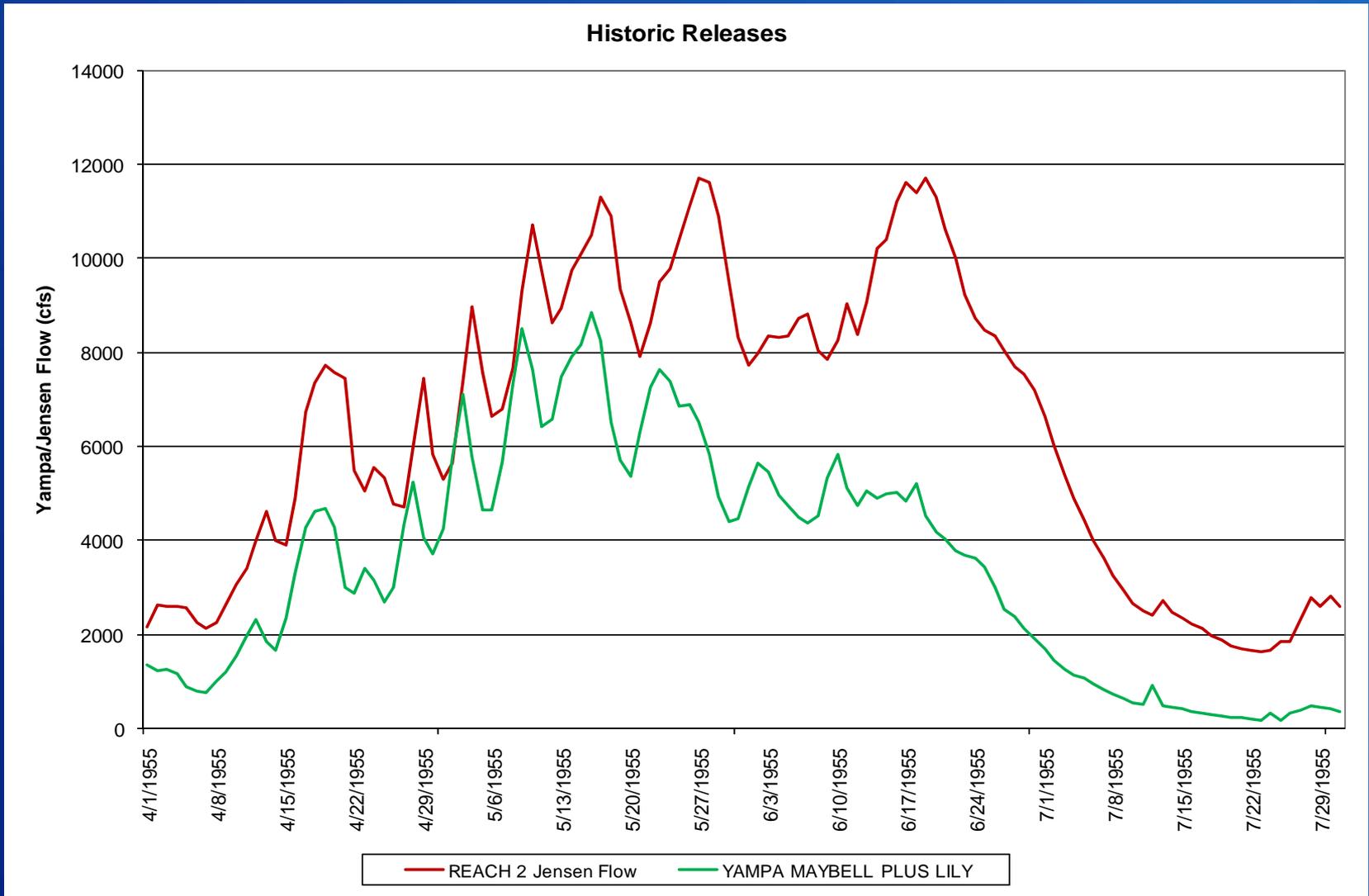


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Historic Releases



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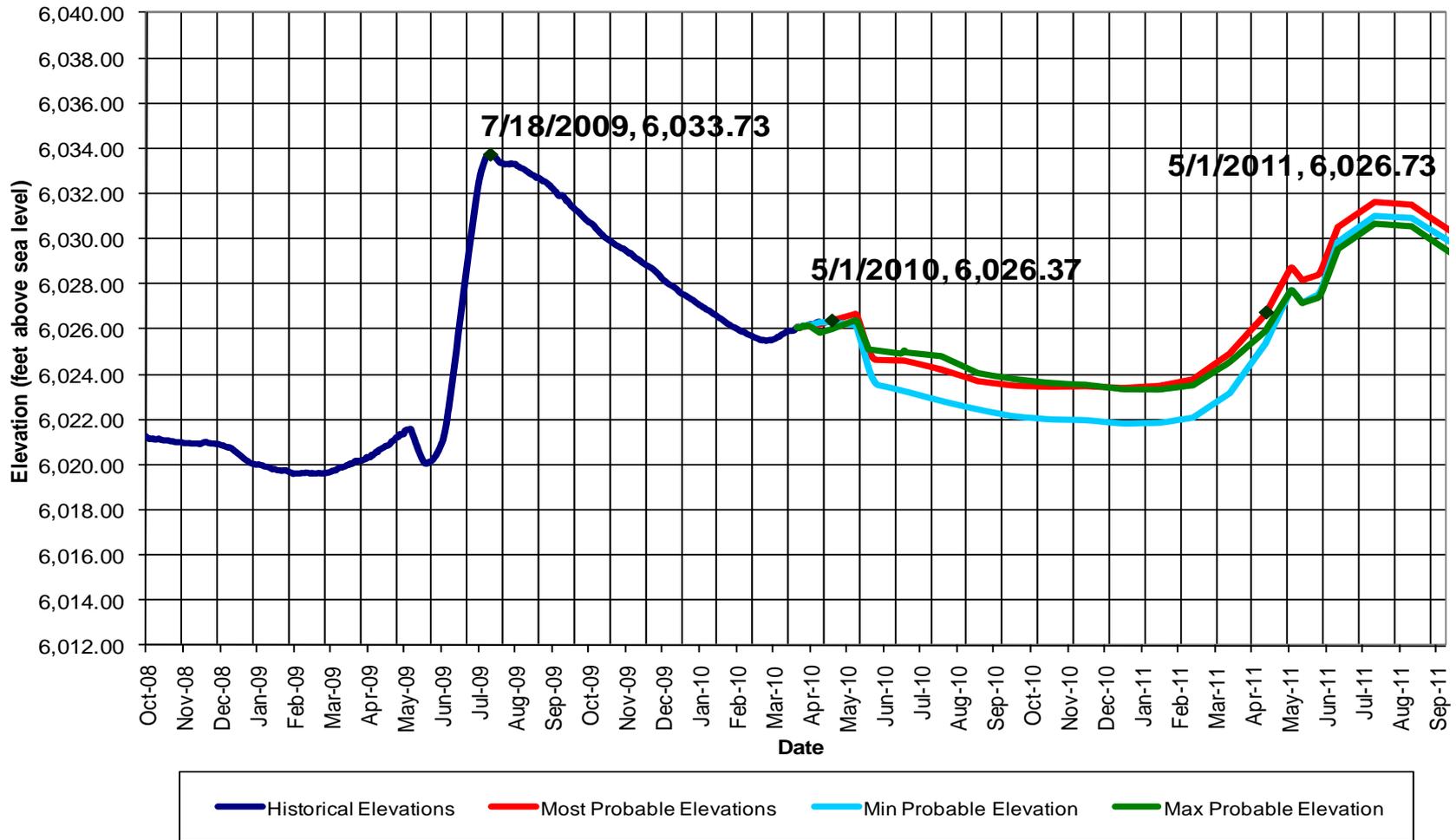
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Historic Releases



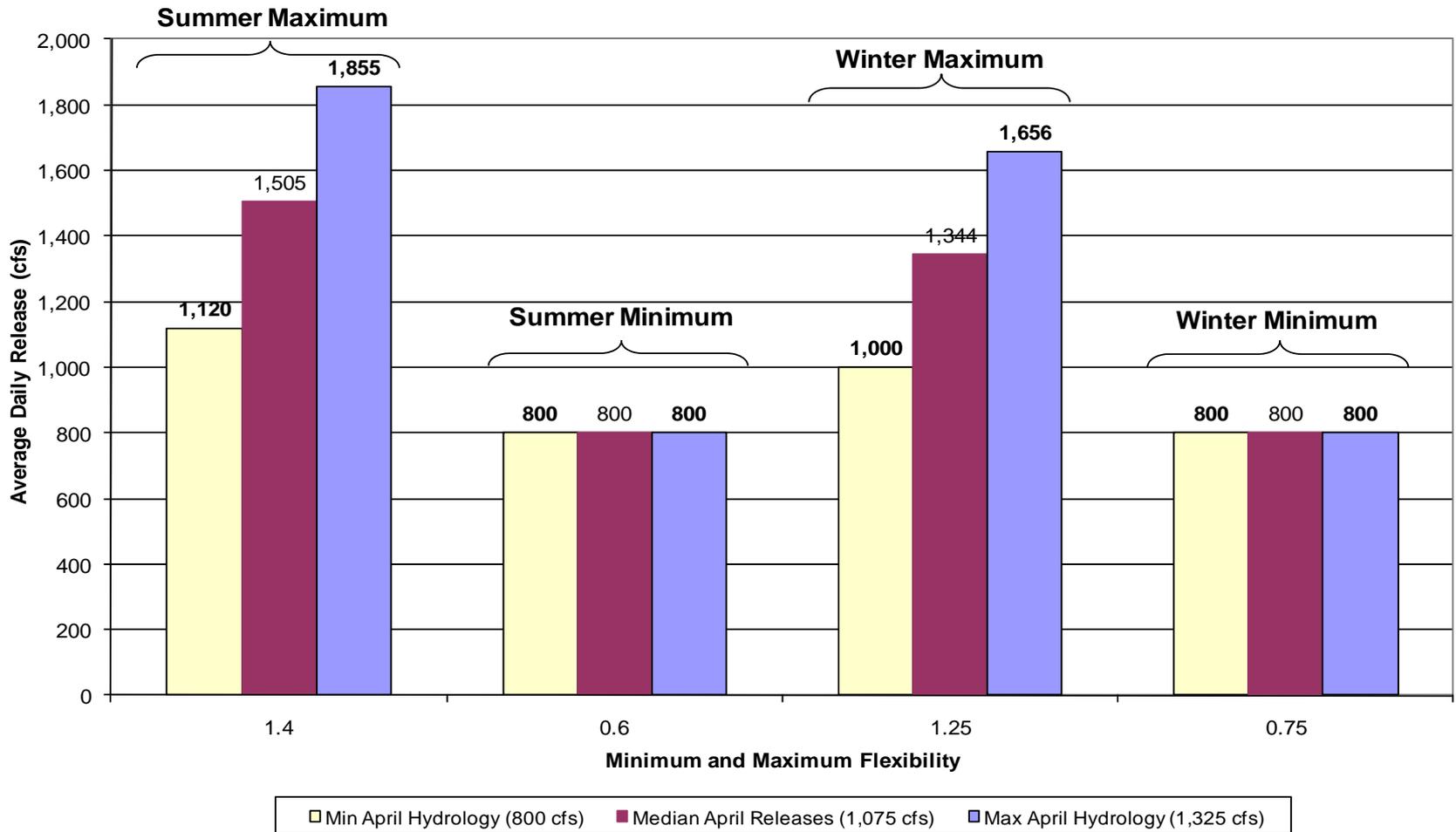
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Flaming Gorge Operations WY2009 through 2011
April 2010 Final Forecast



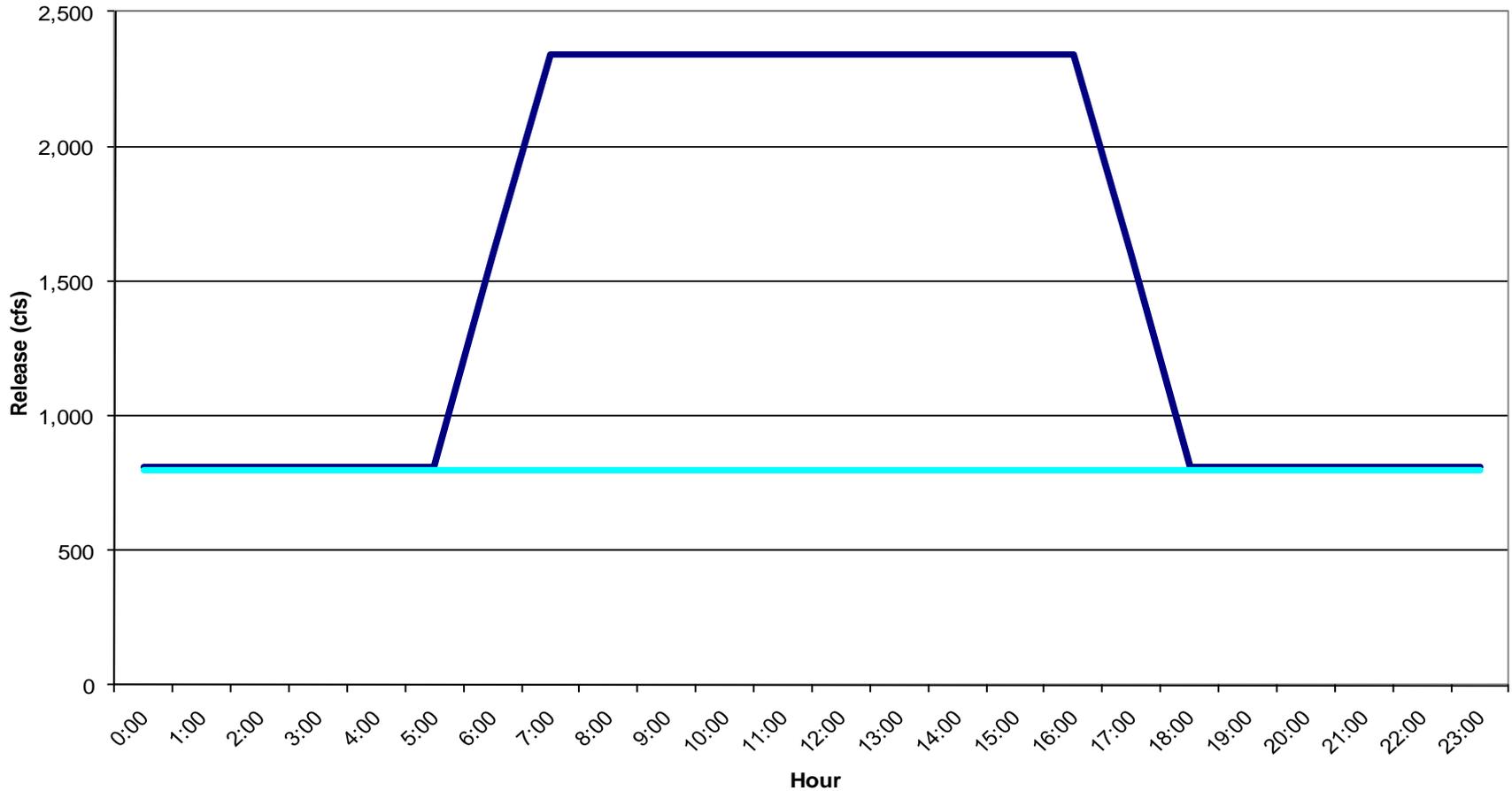
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Base Flow Uncertainty in April 2010 Forecast
Flexibility in Average Daily Base Flows during Summer and Winter



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Daily Release Patterns for Maximum and Minimum Releases



— Daily Release 1,500 cfs — Daily Release 800 cfs

Flaming Gorge Working Group

April 2010

- Questions?
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- (801) 524-3883



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