

RECLAMATION

Managing Water in the West

Flaming Gorge Working Group

August 22, 2012

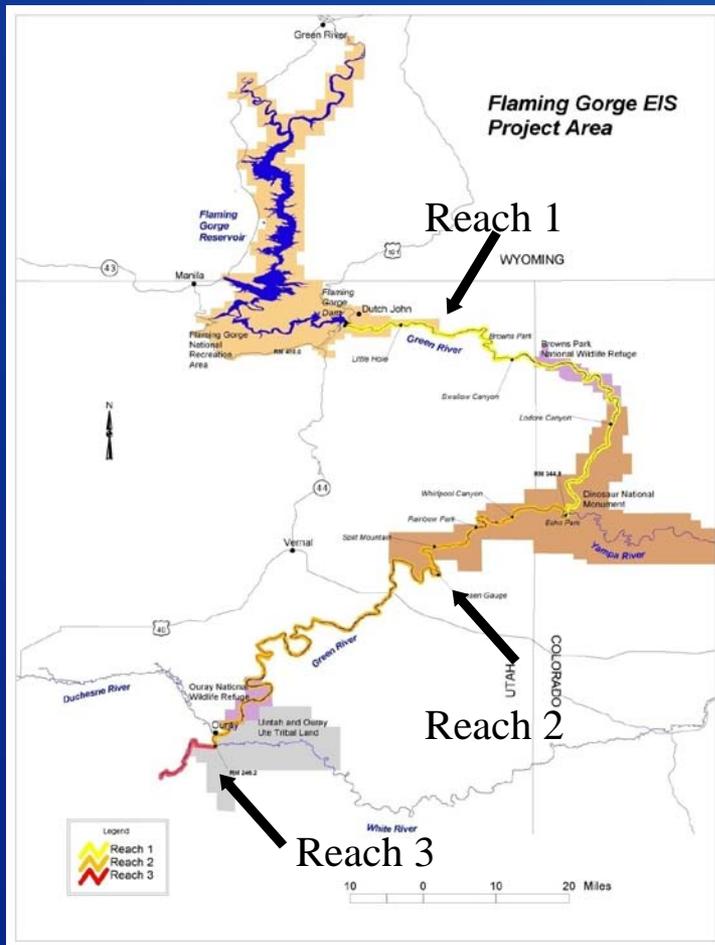


U.S. Department of the Interior
Bureau of Reclamation

Flaming Gorge Working Group Meeting August 2012

- 2006 Record of Decision Operating Criteria
- Hydrologic Overview
- Spring and Summer Operations
- Current and Projected Hydrology and Operations

2006 Record of Decision Geographic Scope



- Reach 1
 - Flaming Gorge Dam to Yampa River Confluence
- Reach 2
 - Green River Confluence with Duchesne and White Rivers
- Reach 3
 - Green River Confluence with Colorado River

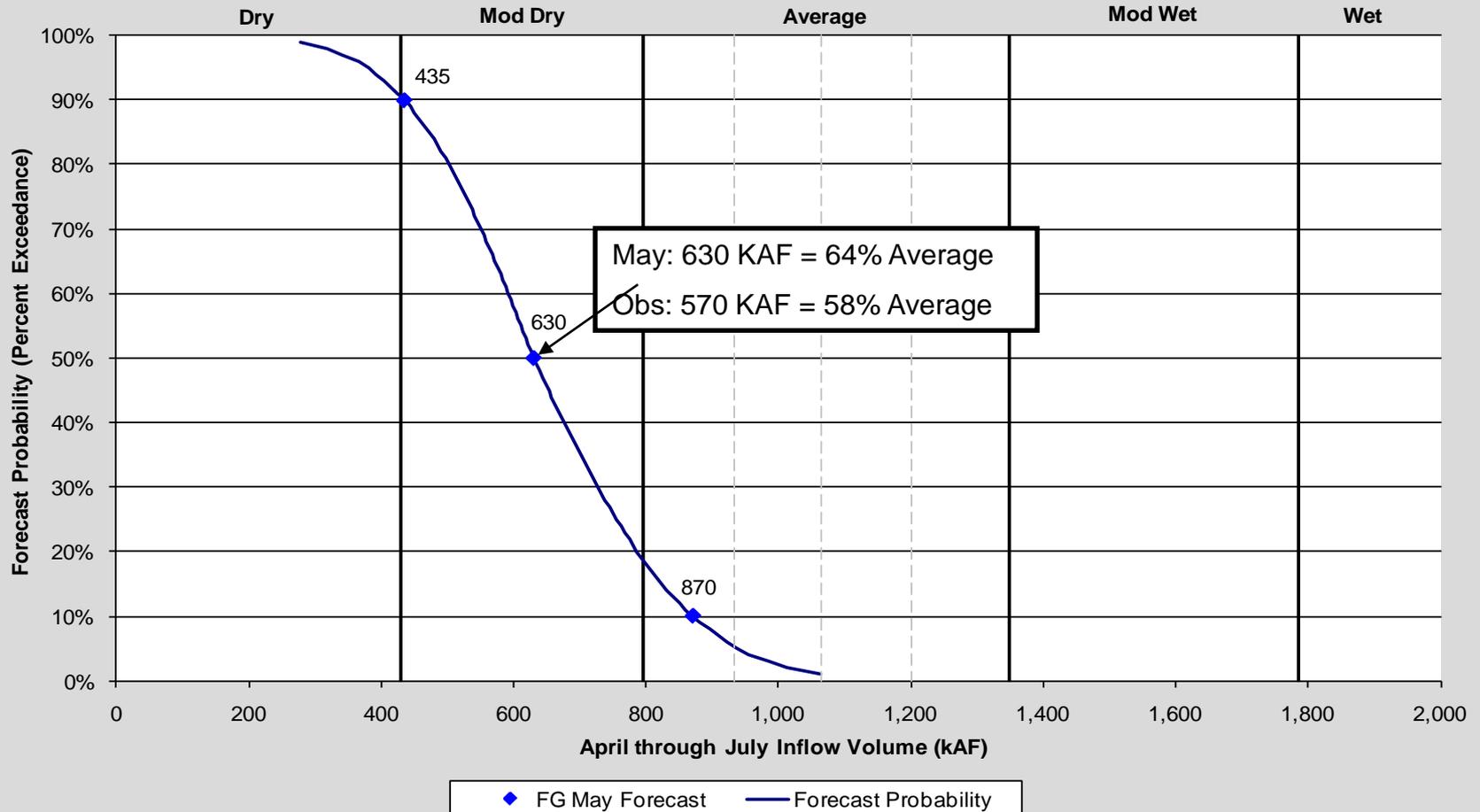
Flaming Gorge Working Group Meeting August 2012

Hydrologic Overview

RECLAMATION

FG May Final Forecast Classifications

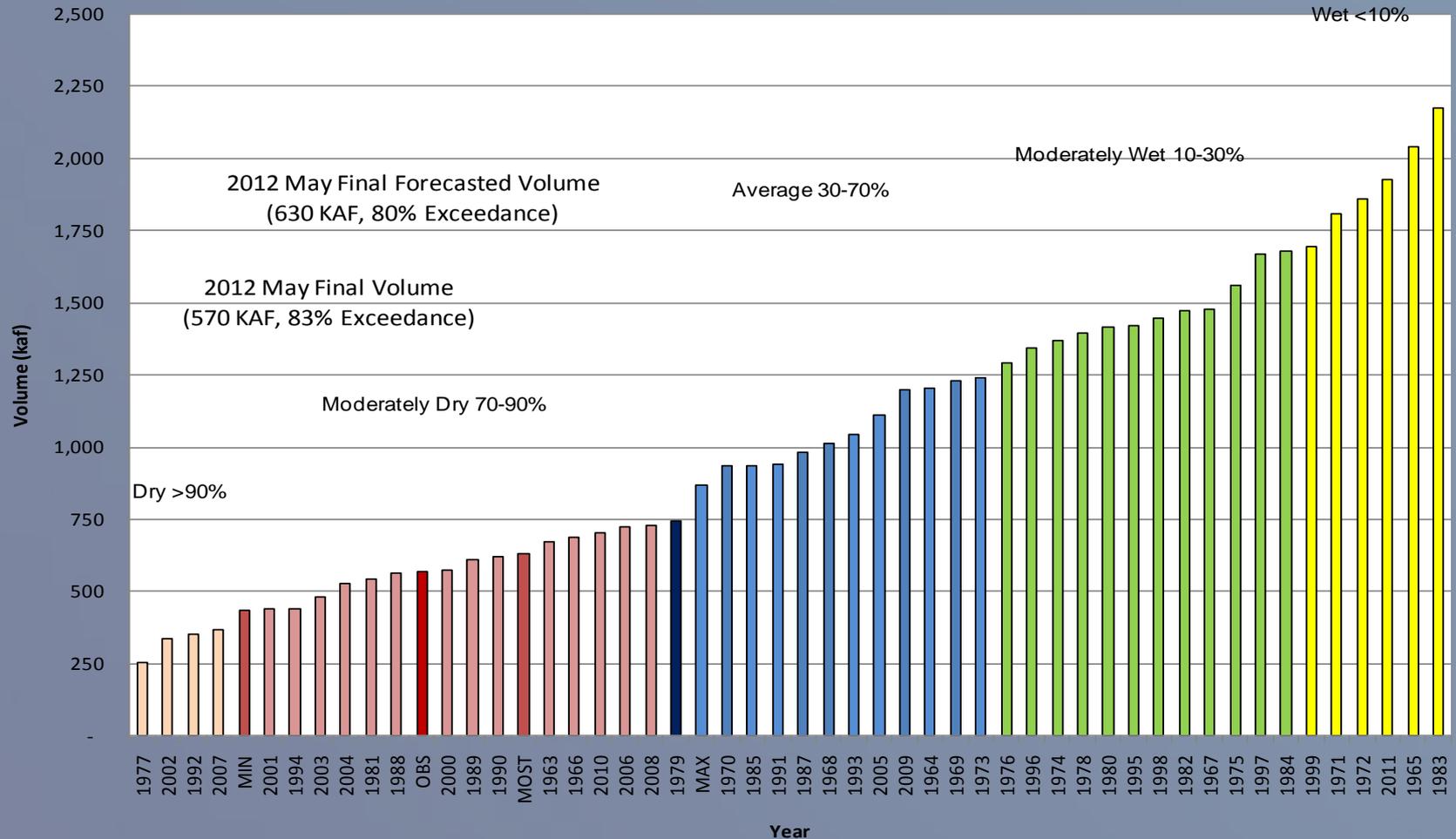
Flaming Gorge Reservoir
April through July Historic Inflow (1963-2011)
Related to Flow Recommendation Percent Exceedances



FG May Final Forecast Historic Ranking

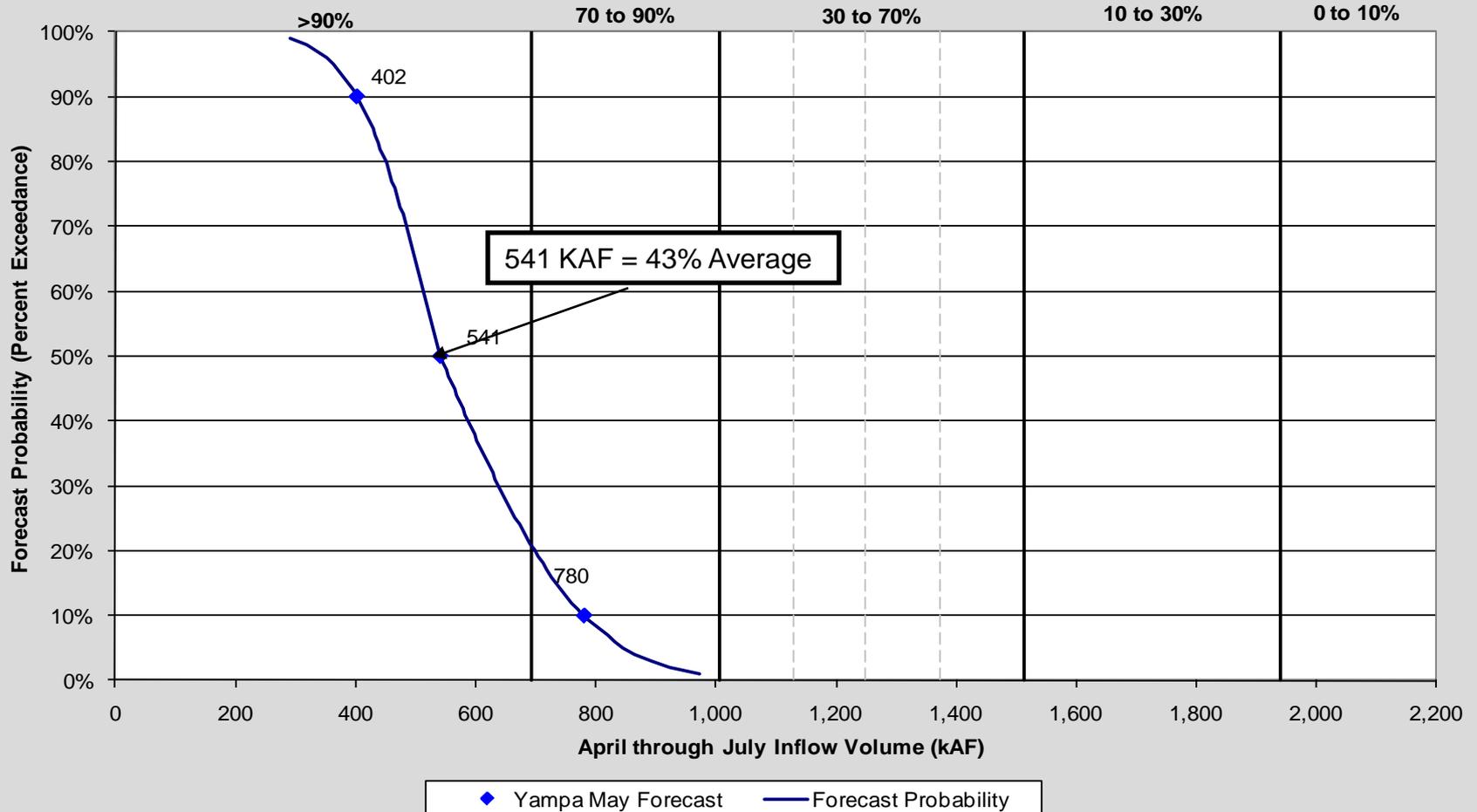
Flaming Gorge Reservoir

Historic April-July Unregulated Inflow Volume Ranking (1963-2011)

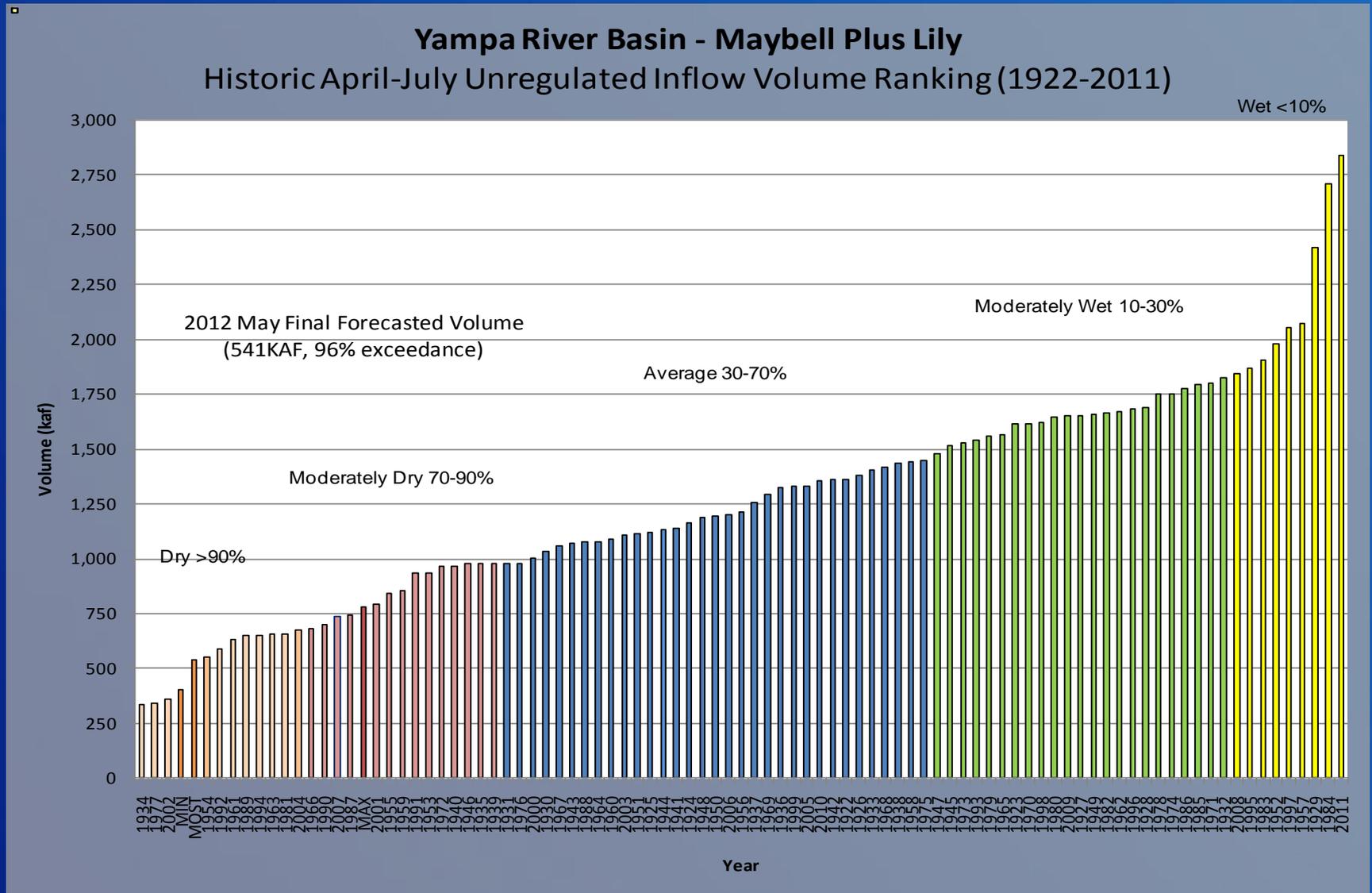


Yampa May Final Forecast Classifications

Yampa River - Maybell Plus Lily
April through July Historic Inflow (1922-2011)
Related to Flow Recommendation Percent Exceedances



Yampa May Final Forecast Historic Ranking



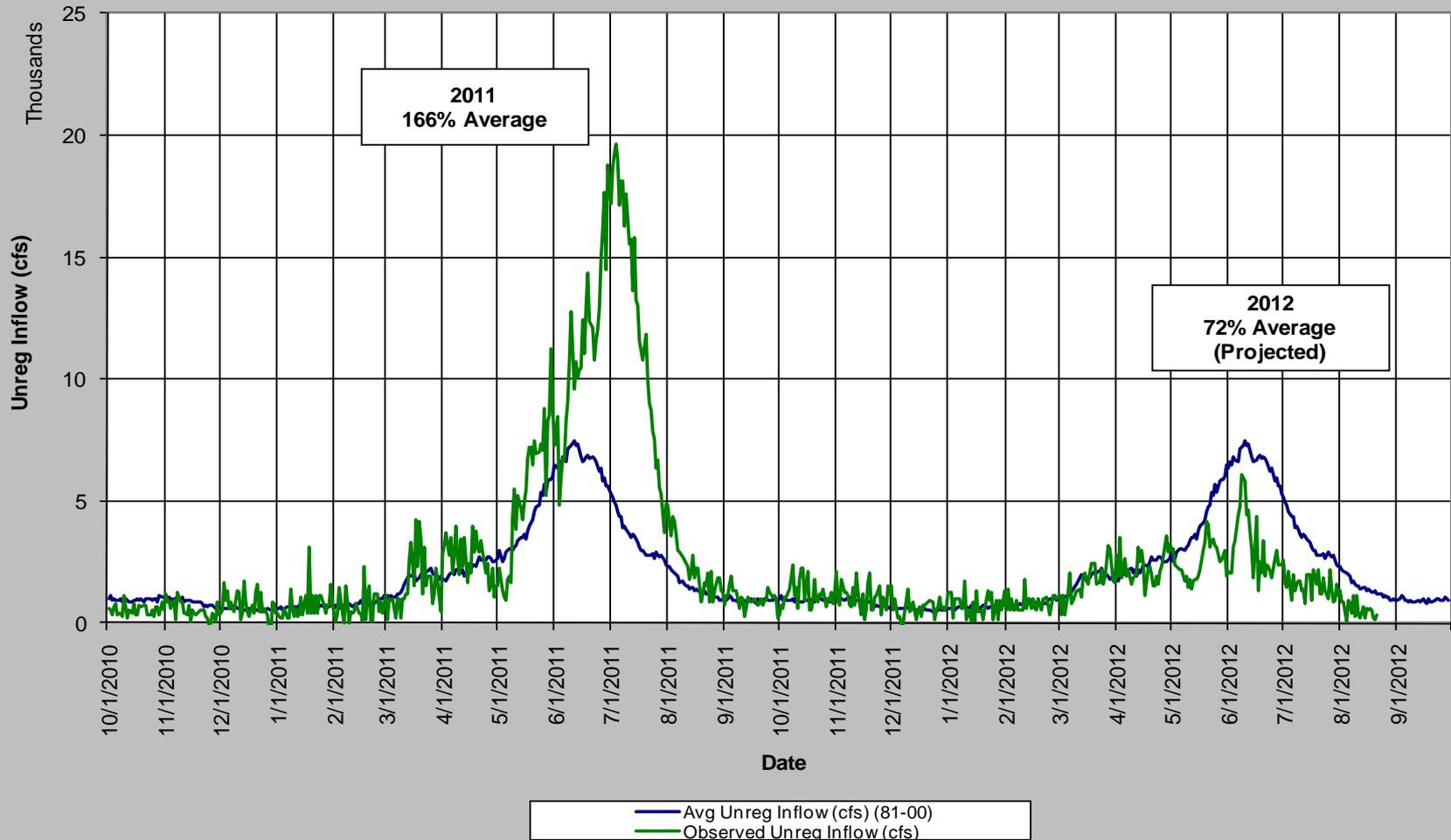
Flaming Gorge Working Group Meeting August 2012

Spring and Summer Operations
(Larval Trigger Study Plan)

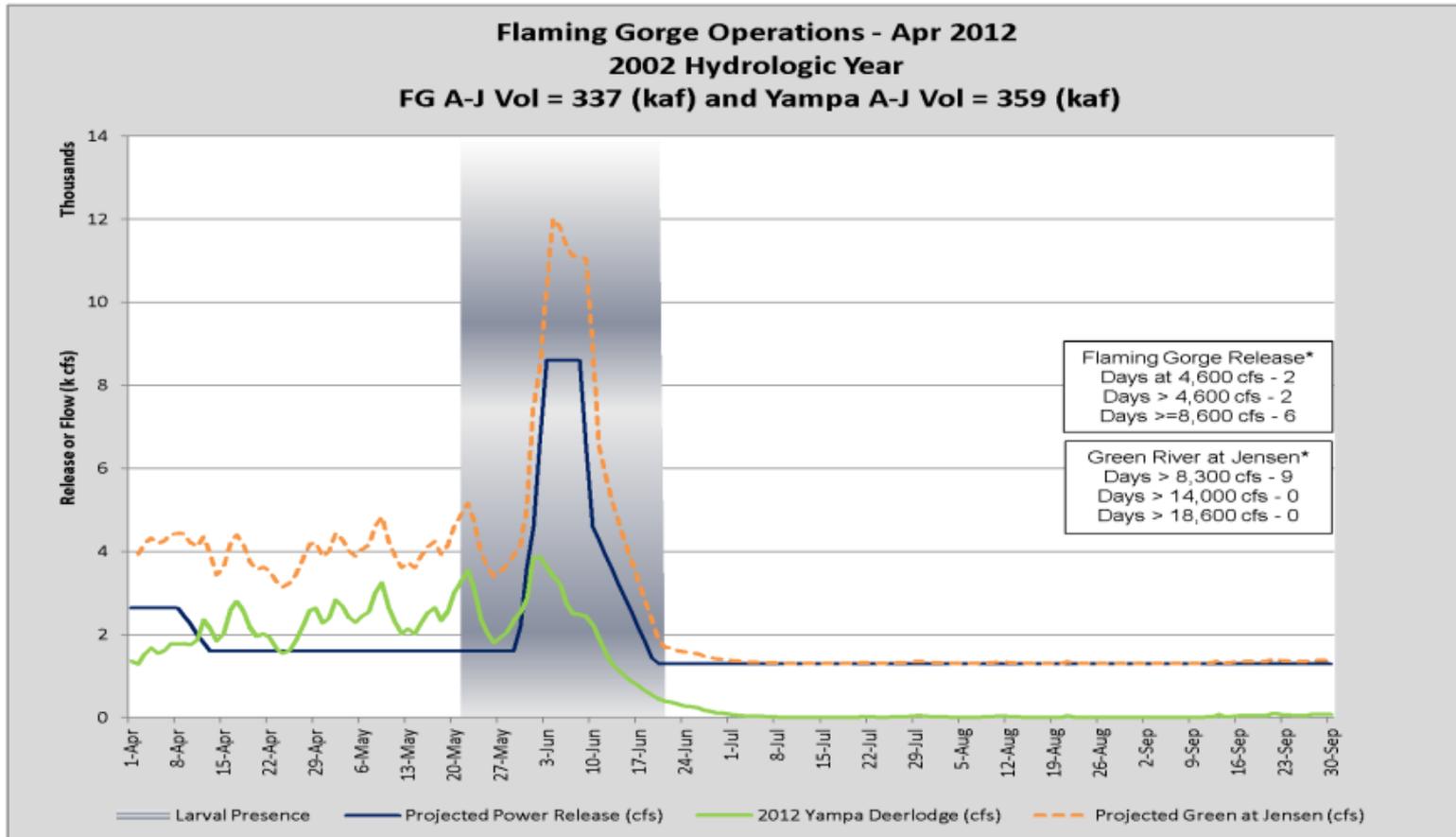
RECLAMATION

Observed Unregulated Inflow

Flaming Gorge Unregulated Inflow Water Year 2011 and 2012



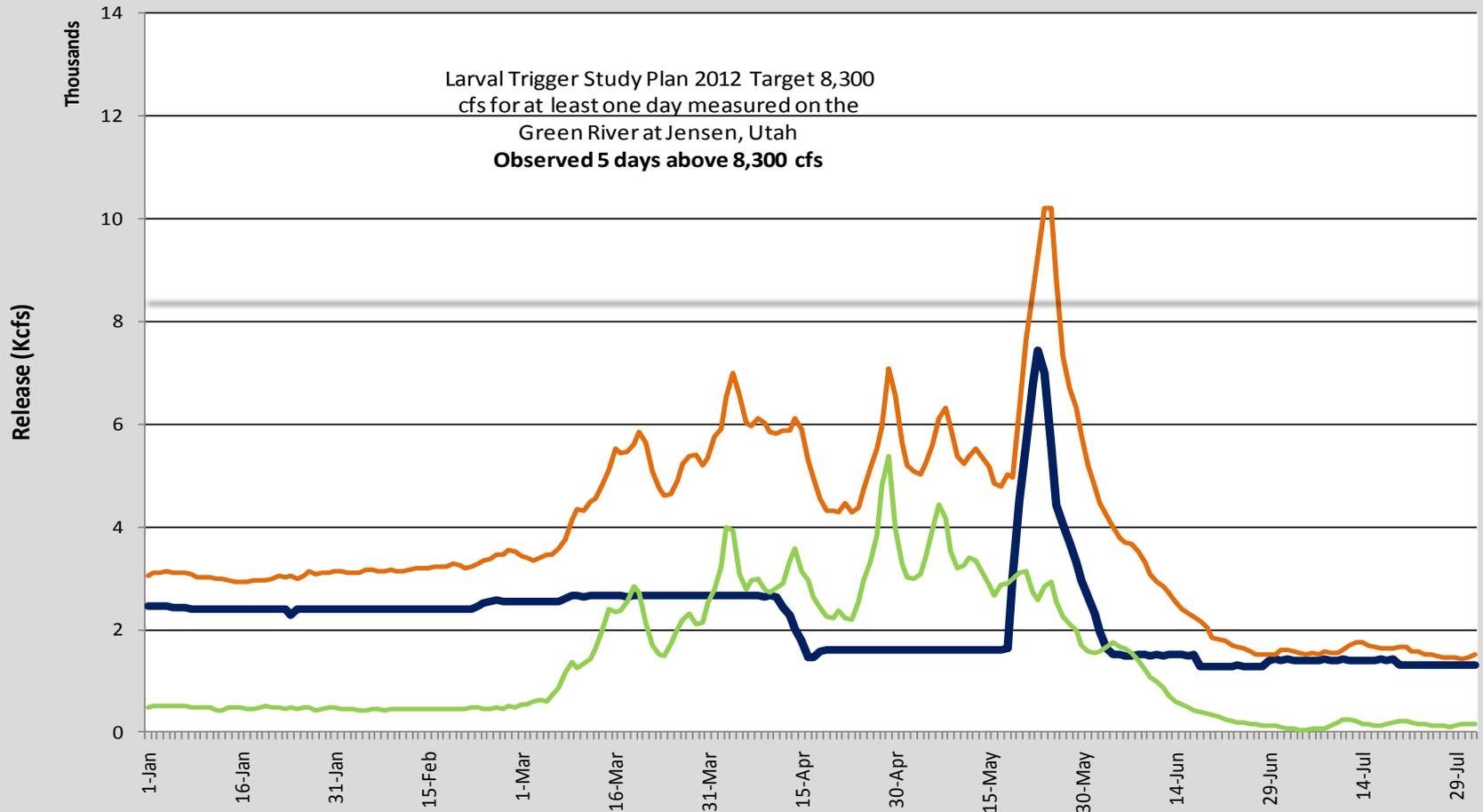
Larval Trigger Study Plan Projections and Spring Operations



*This is a projection based on historic hydrographs. Actual days of flows in 2012 are unknown.

Flaming Gorge Spring Operations

FG Release and Green River Flows Calendar Year 2012



LARVAL PRESENCE

FG release (cfs)

Green River near Jensen flow (cfs)

Yampa River at Deerlodge flow (cfs)

Flaming Gorge Working Group Meeting August 2012

Current and Projected Hydrology
and Operations

RECLAMATION

Current Conditions

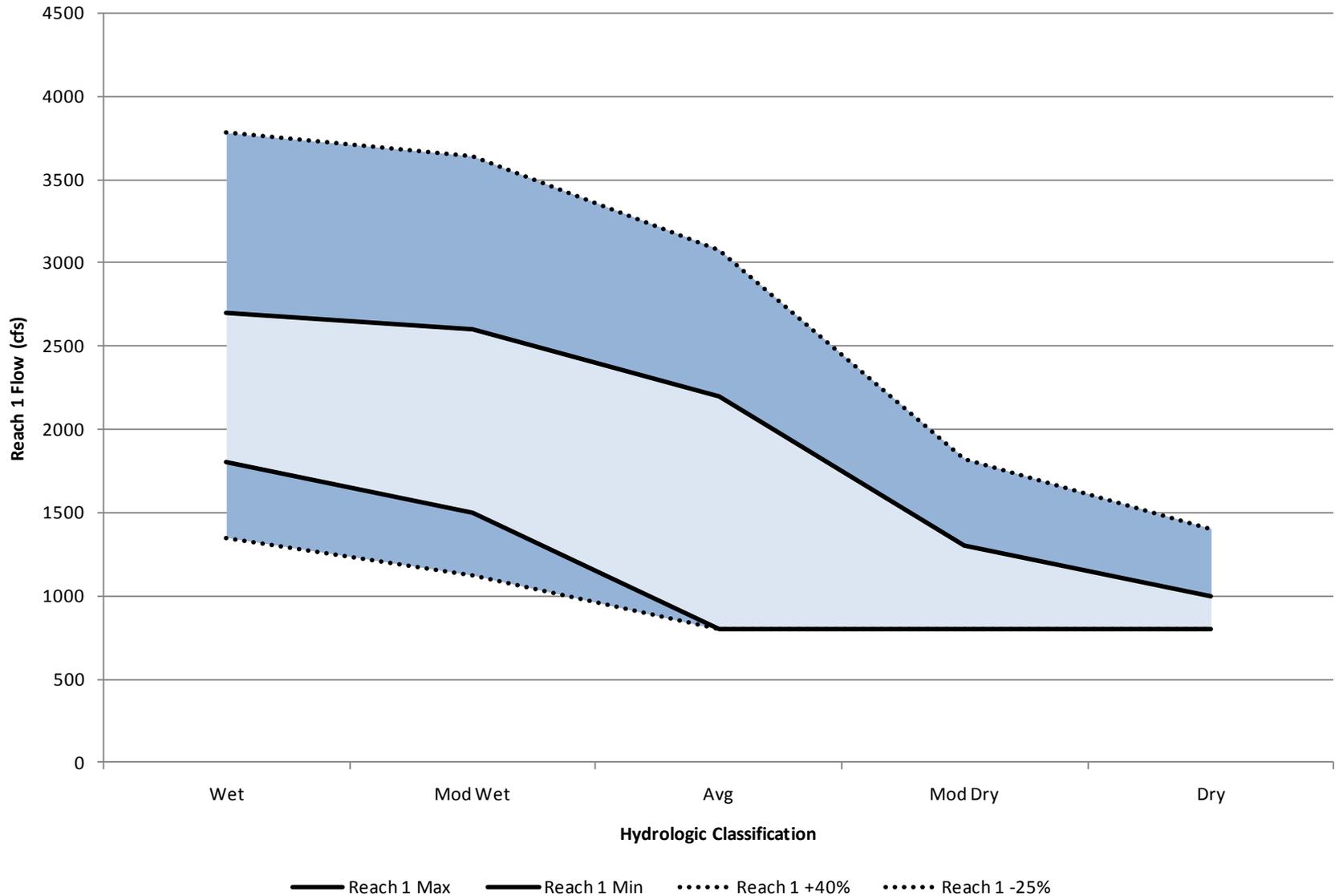
Live Capacity	3.752	MAF
<u>Capacity on 8/20/12</u>	<u>3.068</u>	<u>MAF</u>
Available Space	.684	MAF
Percentage of Full	82	%
Reservoir Elev. (Min Power)	5908.00	feet
<u>Elevation on 8/20/12</u>	<u>6022.51</u>	<u>feet</u>
Elevation above (Min)	114.51	feet
Average Inflow	960	cfs
Average Release	1,300	cfs

Base Flow Flexibility

- Beginning about June-August and continuing through November
 - Variation of $\pm 40\%$ around the annual mean base flow
- December through February
 - Variation of $\pm 25\%$ around the annual mean base flow
- Consecutive daily change limited to 3%
- Hydropower generation at Flaming Gorge limited to produce no more than 0.1 meter daily stage change at Jensen, Utah

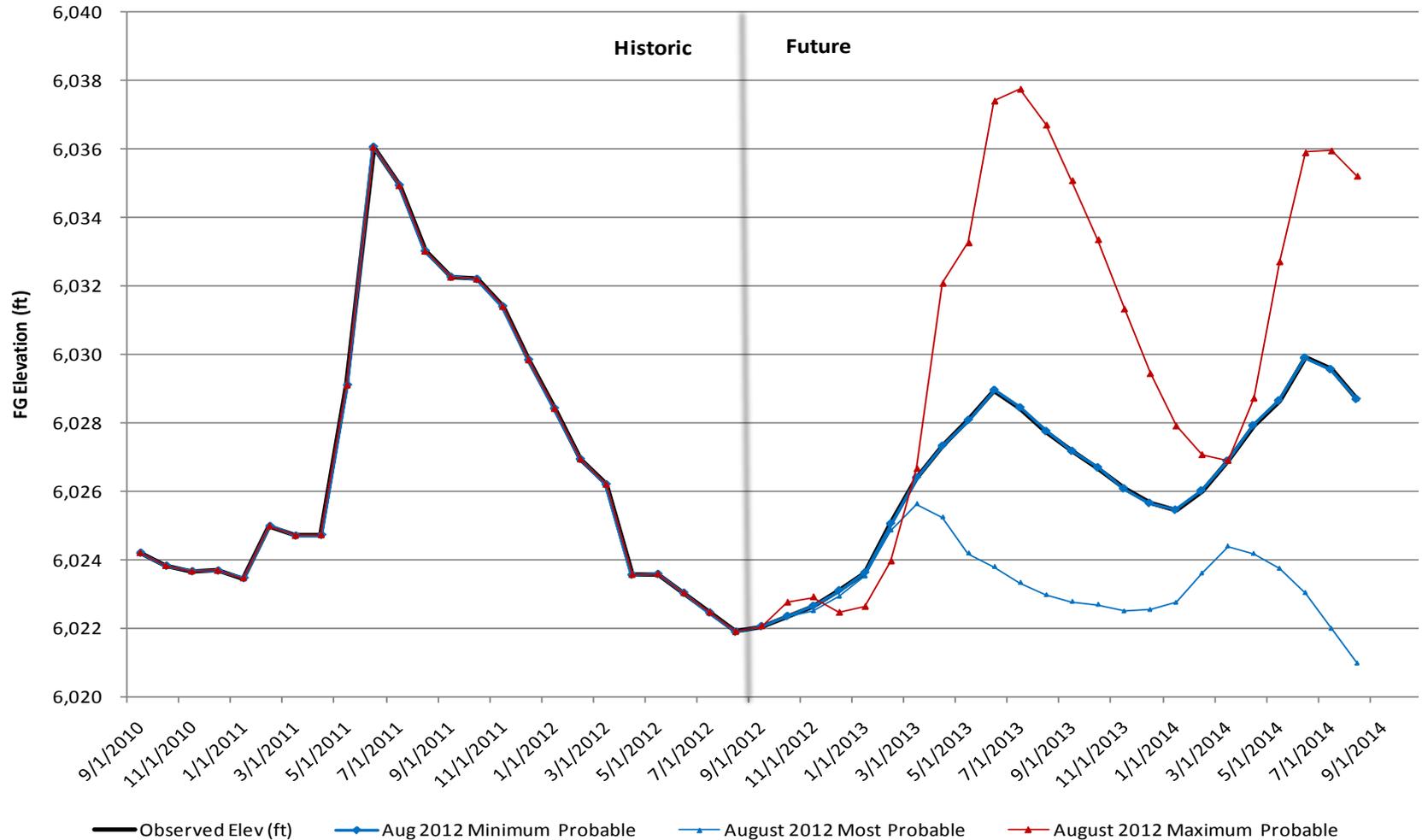
Elevation Ranges

Reach 1 Base Flow Range with Flow Variability of $\pm 40\%$ and $\pm 25\%$



Elevation Ranges

Flaming Gorge Elevations Historic and Projected based on Most Recent Inflow Projections



Flaming Gorge Working Group August 2012



RECLAMATION