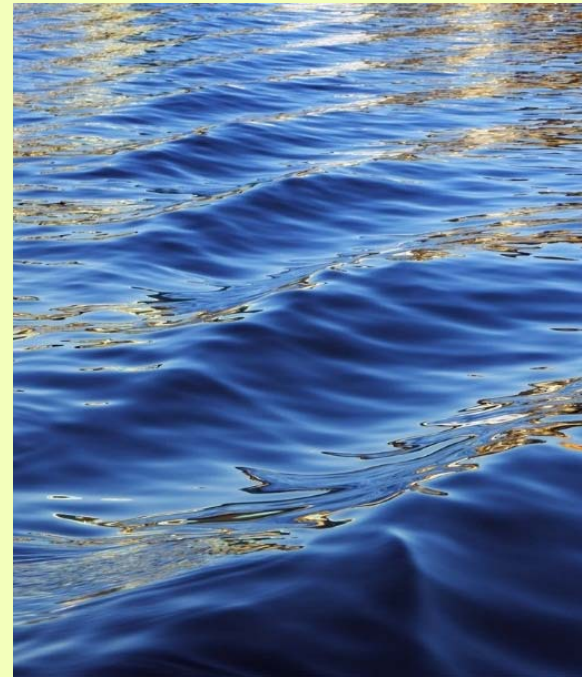


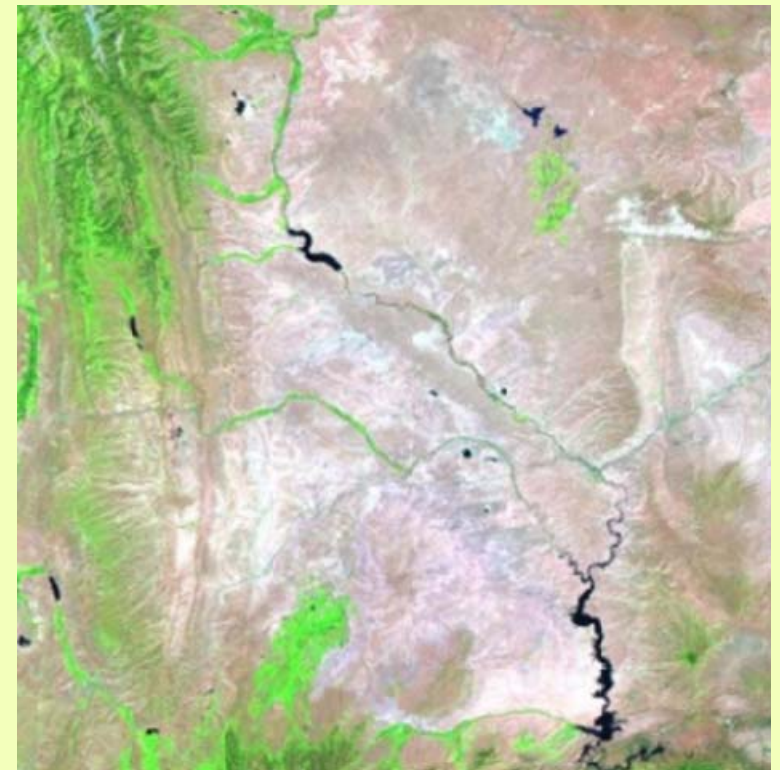
Colorado River Update

Pat Tyrrell, Wyoming State Engineer
21 April, 2016
Lyman, WY

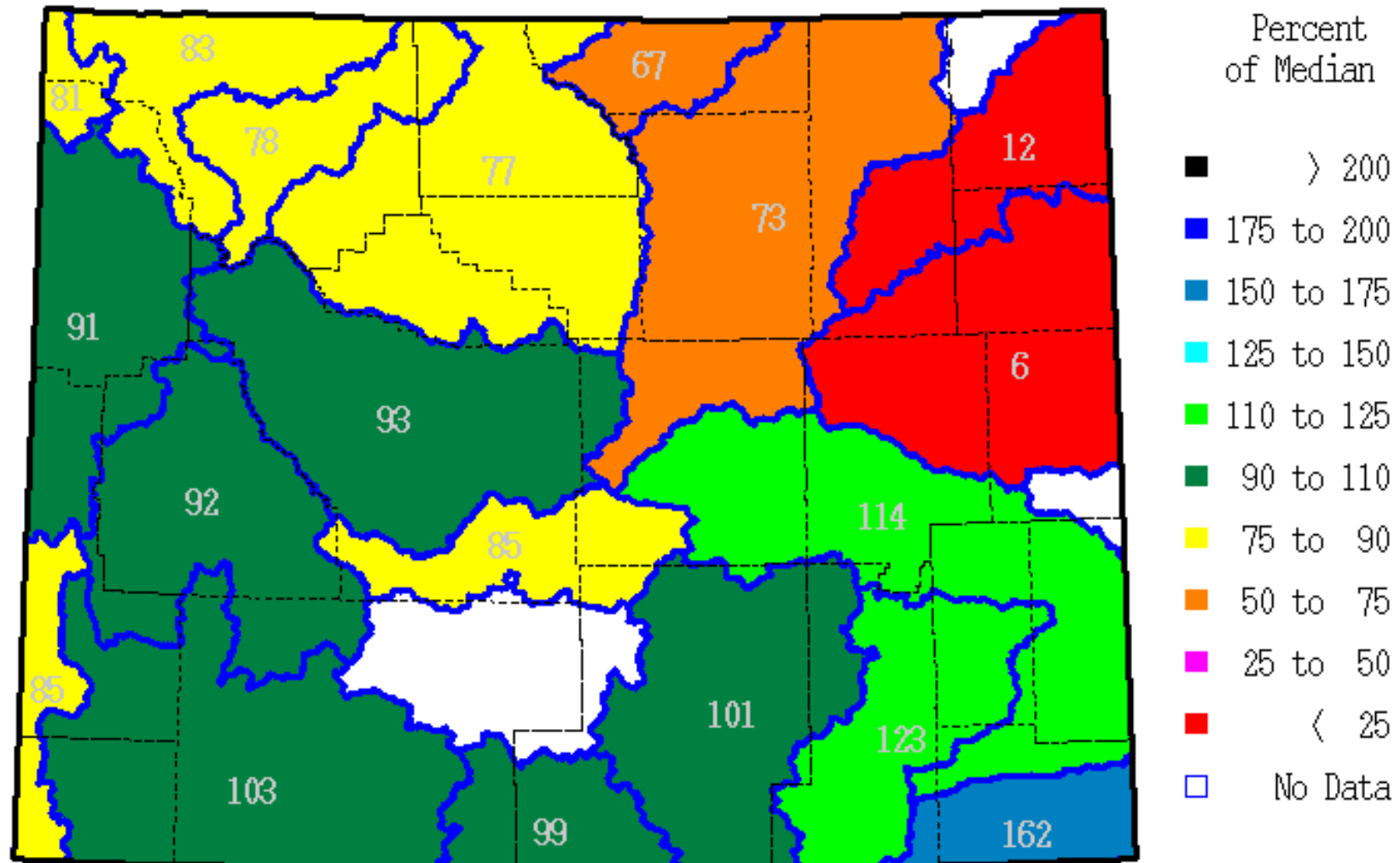


Today's Topics

- 2016 Water Supply Forecast & Current Basin Conditions
- Upper Colorado River Basin
 - Drought Contingency Planning
 - System Conservation Pilot Program
 - Minute 32x with Mexico
- Green River Basin
 - Consumptive Use Work
 - Fontenelle Reservoir
 - Transbasin Pipeline Proposals
- New Commissioners for Wyoming



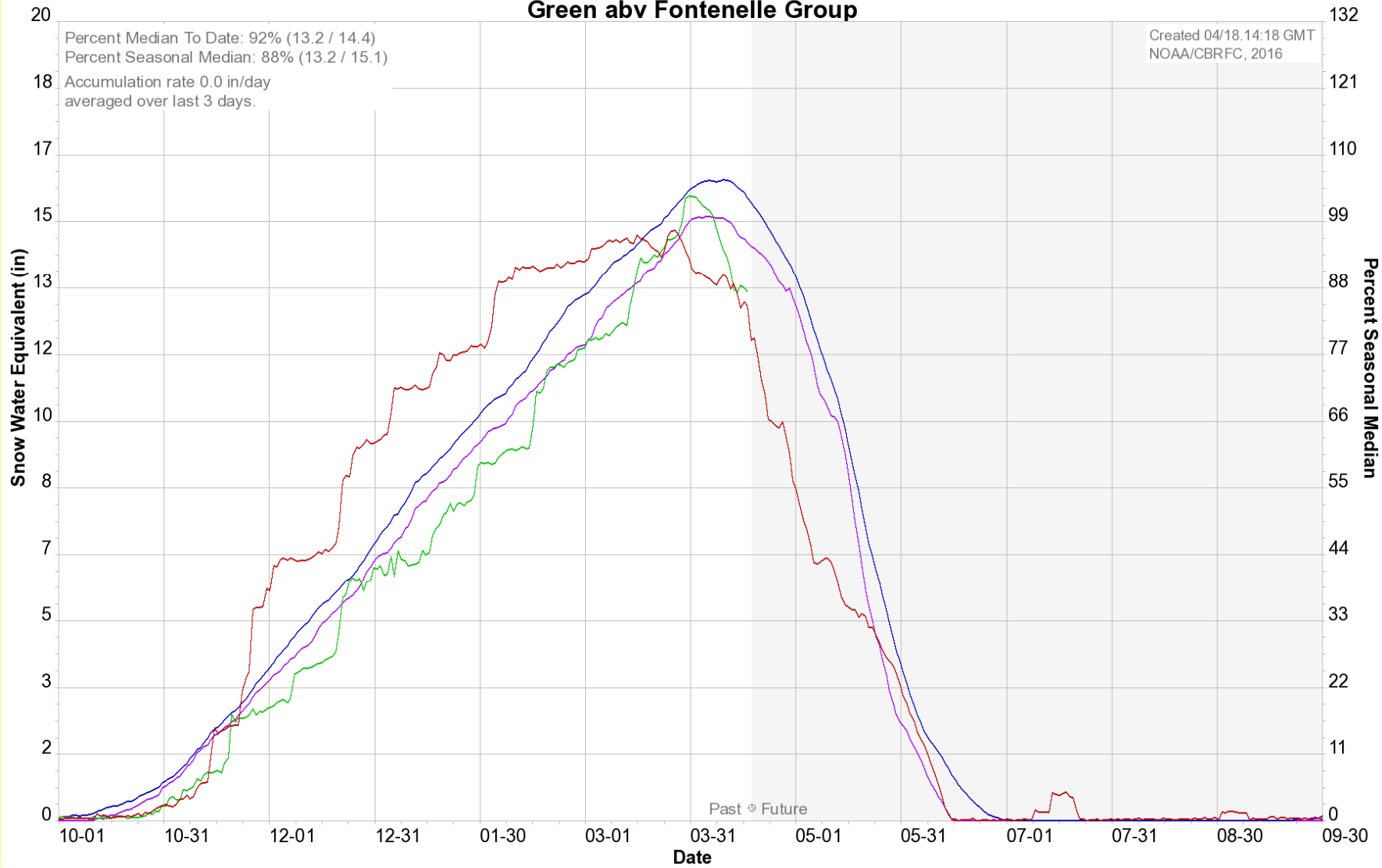
SWE % of Median as of Monday, 18 April 2016



Produced by the Wyoming Water Resources Data System: <http://www.wrds.uwyo.edu>

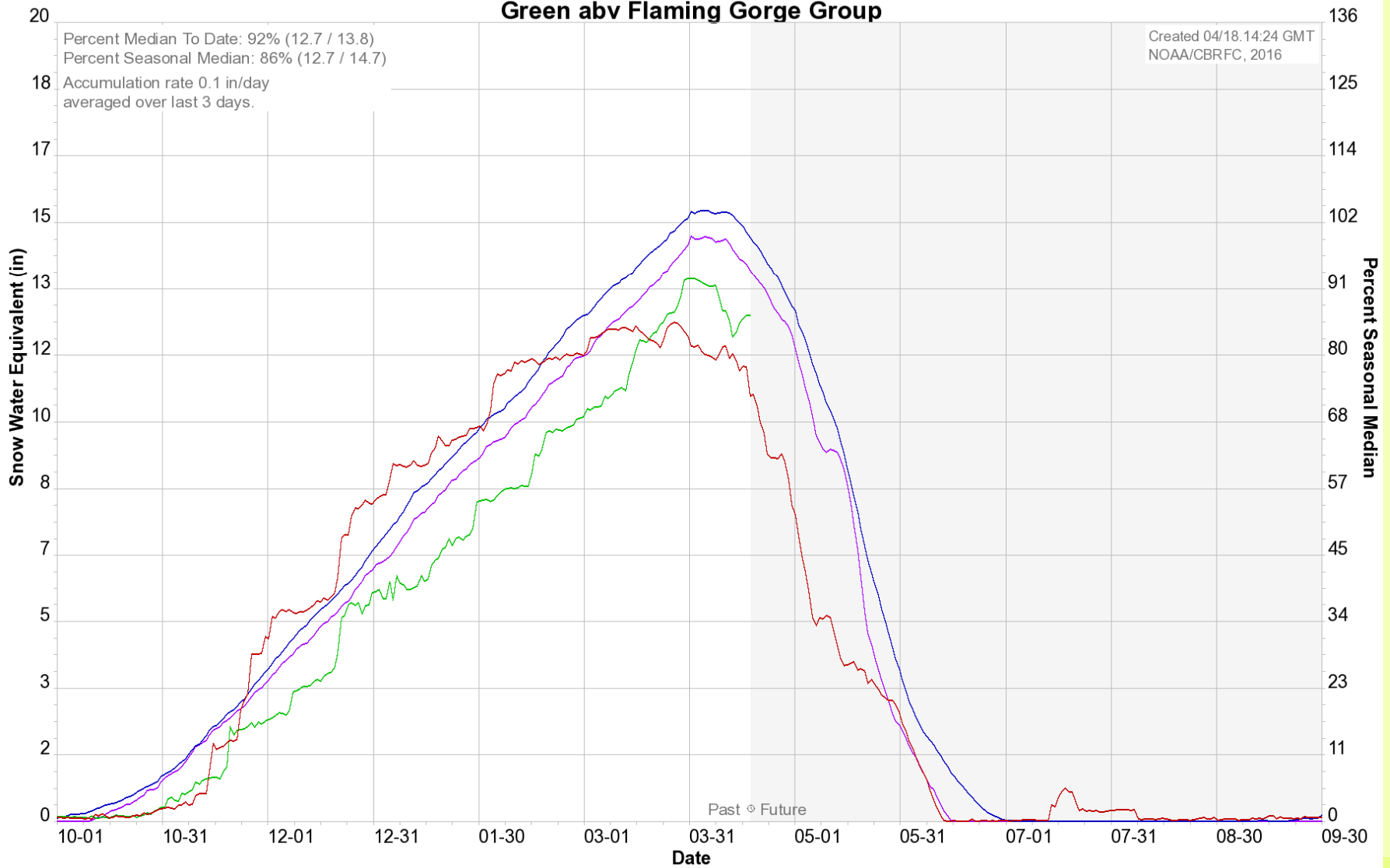
* = Data may not provide a valid measure of conditions

Colorado Basin River Forecast Center Green abv Fontenelle Group



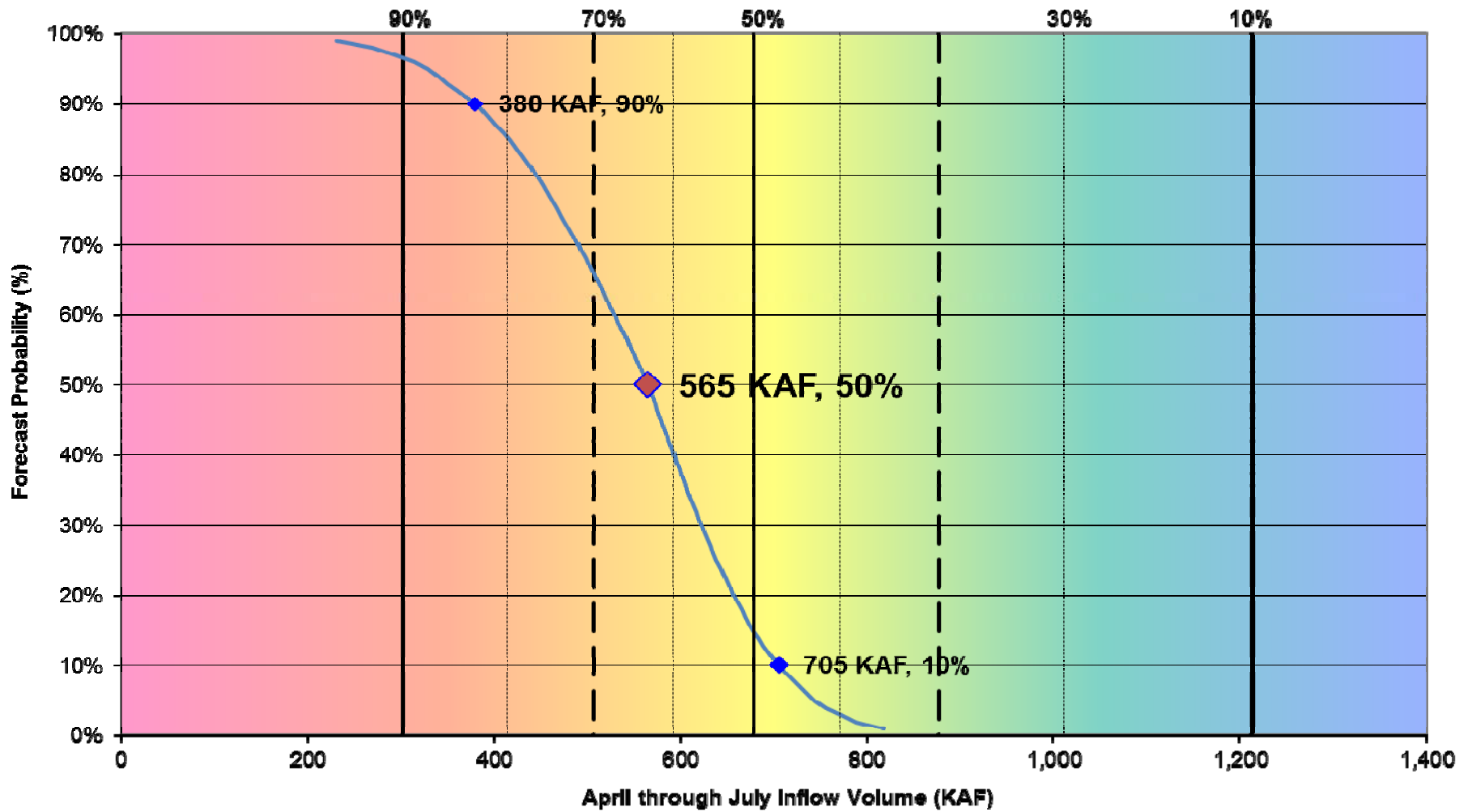
Median 1981-2010 — Average 1981-2010 — 2016 — 2015 —

Colorado Basin River Forecast Center Green abv Flaming Gorge Group



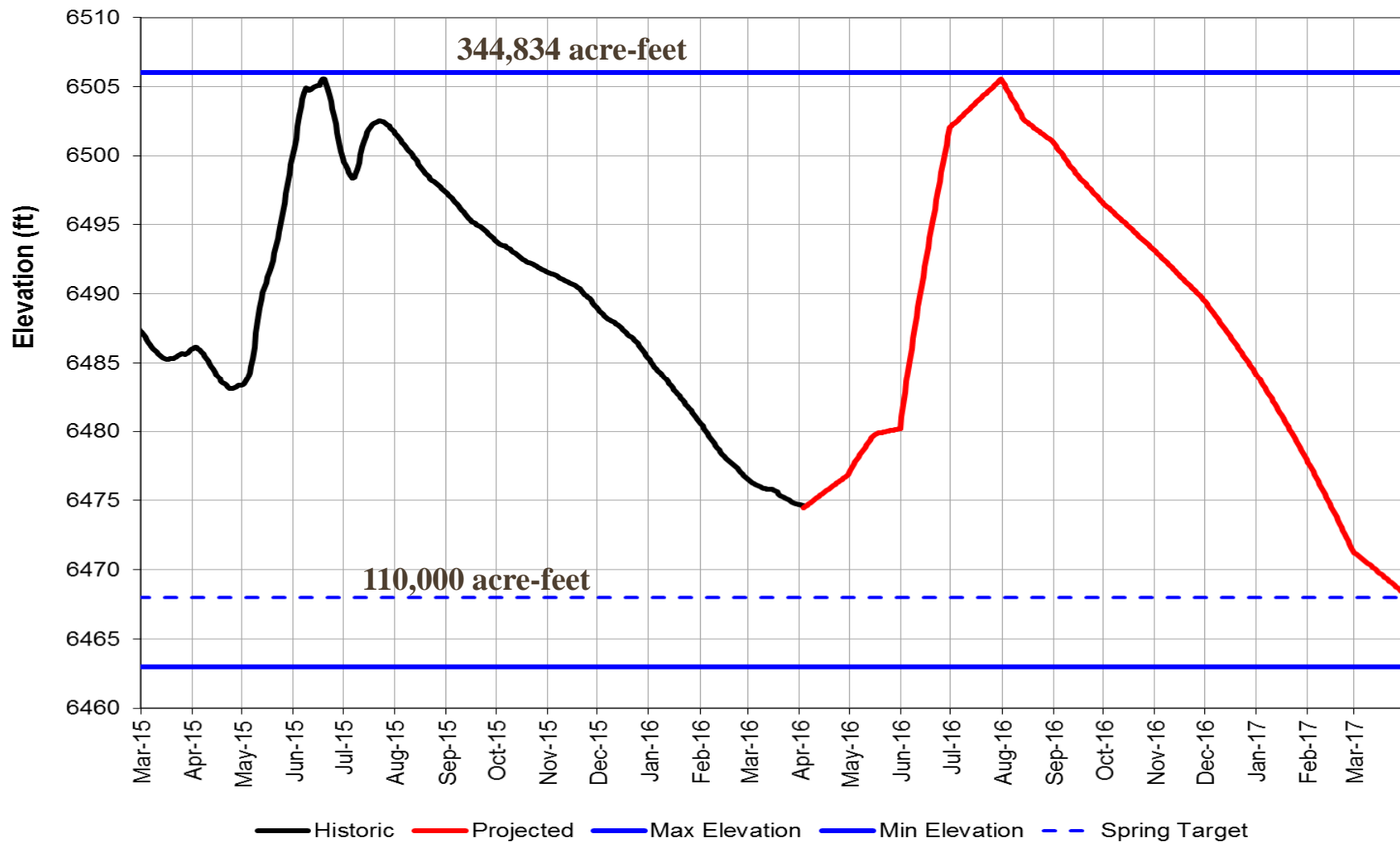
Median 1981-2010 - Average 1981-2010 - 2016 - 2015 -

Fontenelle Reservoir
April - July Forecasted Inflow
Related to Exceedance Percentages for Historic Period (1981-2010)



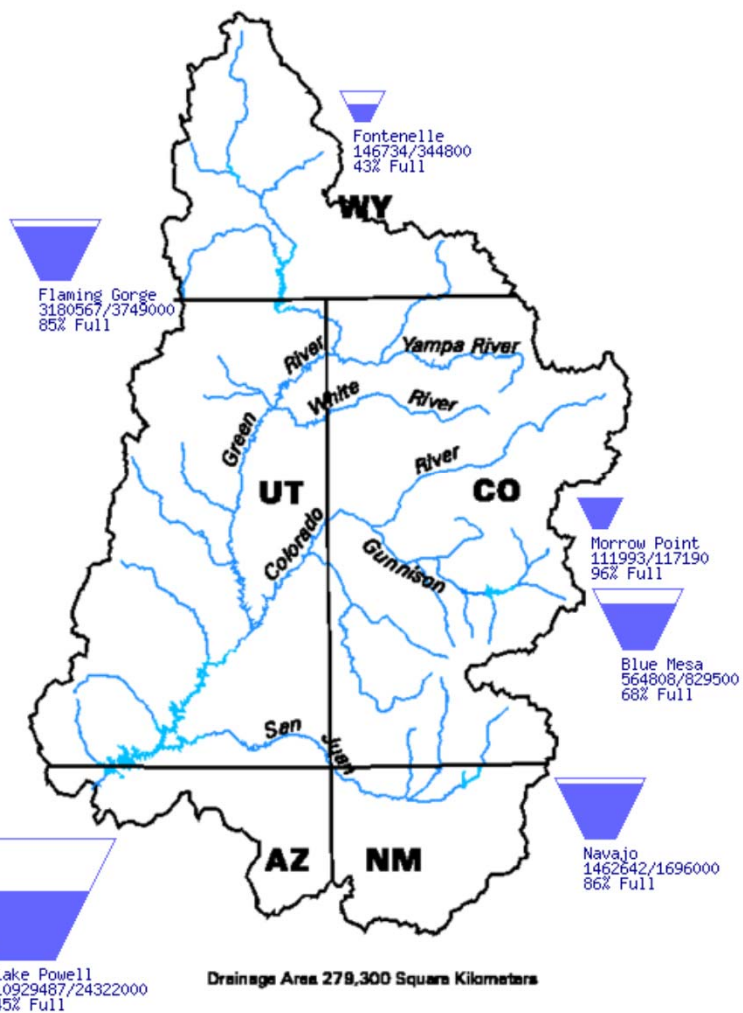
Fontenelle Elevations

2016 Most Probable Operations (April Final Forecast)



Data Current as of:
04/13/2016

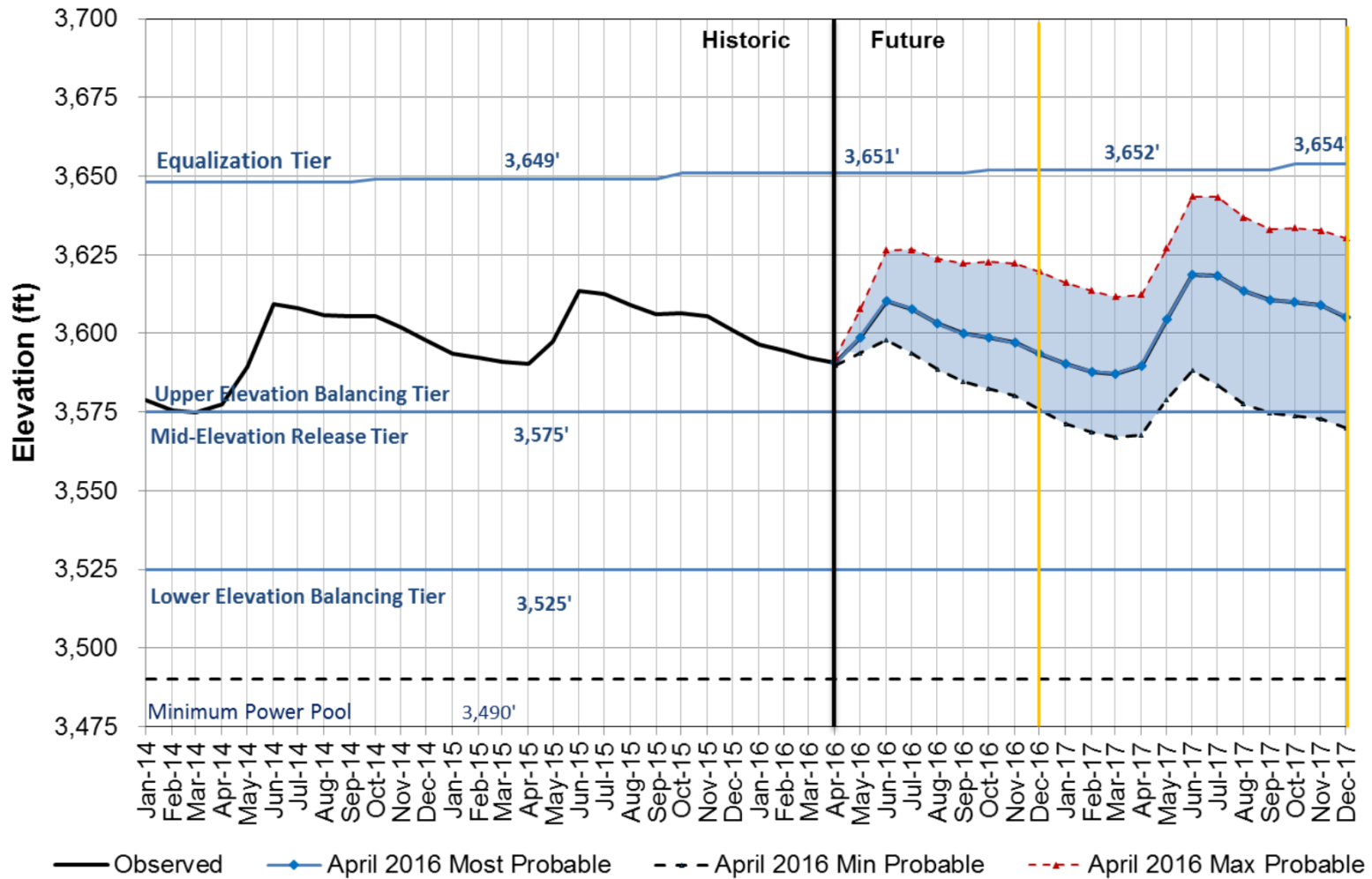
Upper Colorado River Drainage Basin



Reservoir	A-J Forecast (KAF)	Percent of Average ¹
Fontenelle	565	74%
Flaming Gorge	740	76%
Blue Mesa	515	76%
Navajo	530	72%
Powell	5,300	74%

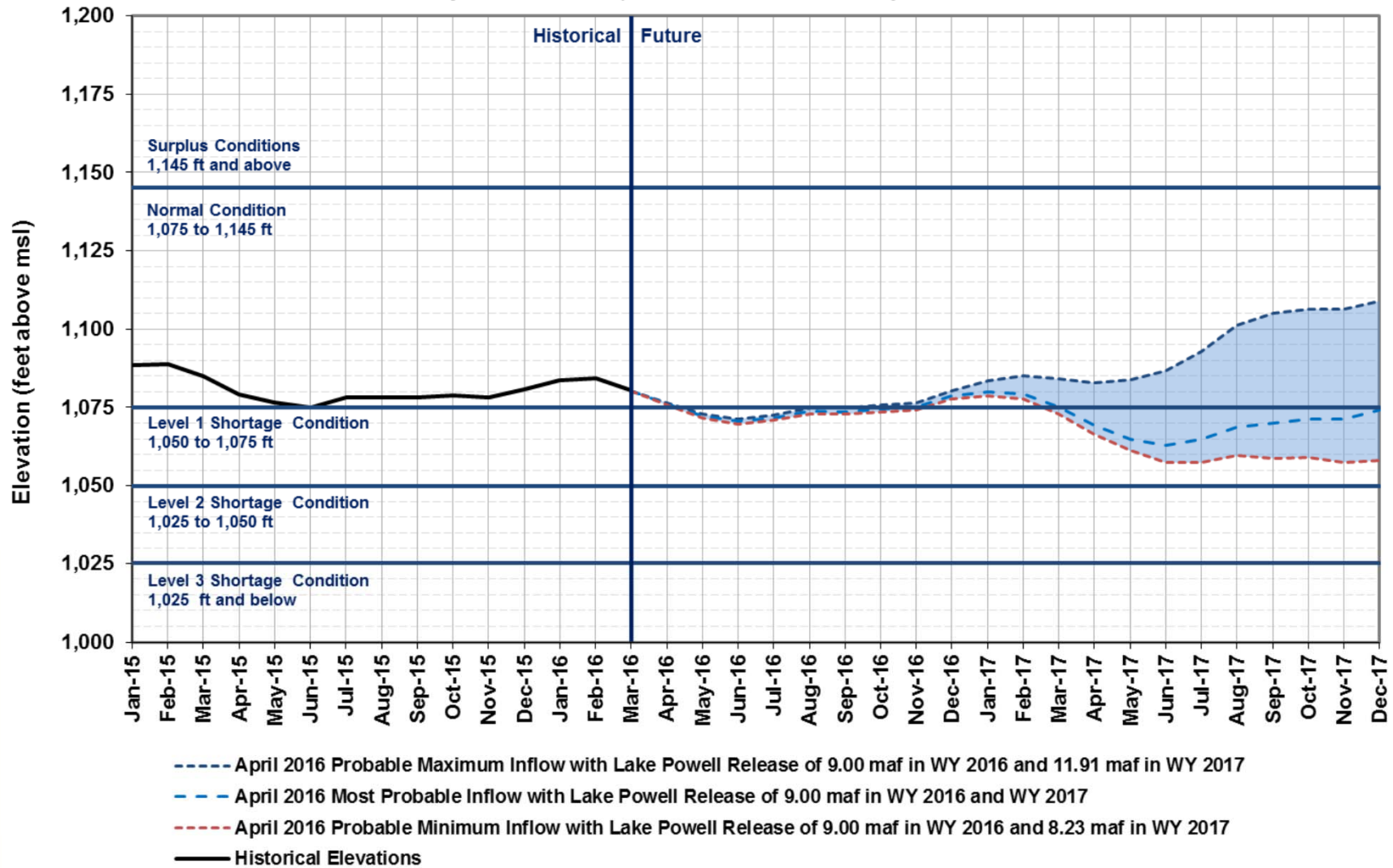
Lake Powell End of Month Elevations

Historic and Projected based on April 2016 Modeling



Lake Mead End of Month Elevations

Projections from April 2016 24-Month Study Inflow Scenarios



Wyoming's Goals for Drought Planning Activities

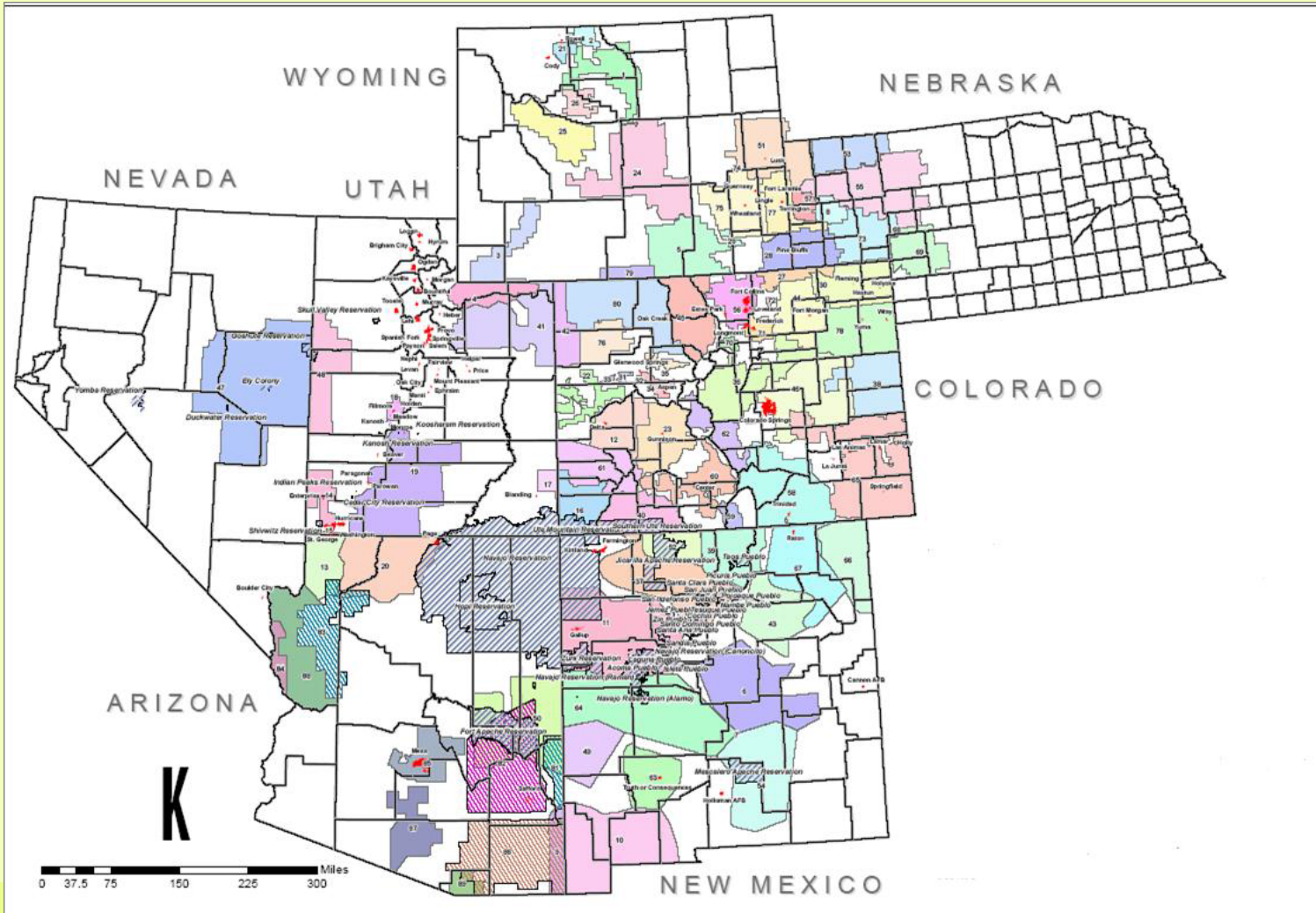
1. Protect Wyoming water users from interstate regulation (curtailment)
2. Protect elevations in Lake Powell above power pool (3,490')

Why does Wyoming care about Lake Powell??

Compact Compliance/ Water Deliveries



Colorado River Storage Project Power



Hydropower \$\$ (Basin Fund)

- Upper Colorado River Endangered Fish Program (allows continued water development)
- Colorado River Basin Salinity Control
- Reclamation's Environmental Programs & O&M
- \$1.6 million annually to Wyoming (\$25 million)
 - Reactivated certain USGS stream gauges
 - Upper Basin States' cost share of Reclamation's Basin Study
 - Research on consumptive use in the Upper Basin



Drought Planning Strategies for the Upper Basin States

1. Augmentation (Weather modification)
2. Reservoir Drought operation
3. Demand management



System Conservation Pilot Program

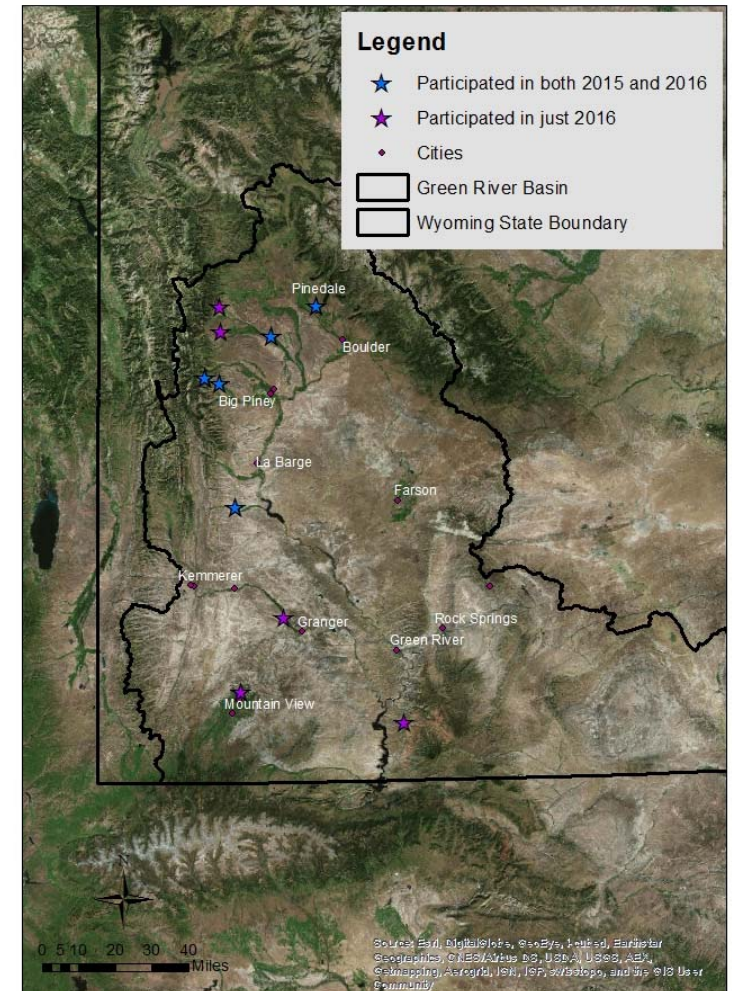
- Pilot program to support drought planning efforts being conducted by the seven Colorado River basin states and the U.S. Department of Interior
- \$2.75 million available to the four Upper Basin states to fund pilot water conservation projects (fallowing, deficit irrigation, etc.) in 2015 & 2016
- Payments are based on acre-feet of water conserved



Program Summary - Wyoming

- **2015**
 - Eight projects submitted
 - Five projects were approved
 - All five were implemented as proposed
 - All were agricultural, late-season following
- **2016**
 - Ten projects submitted
 - All or portions of all ten were approved
 - All are agricultural

Wyoming SCPP Participant Locations



Minute 32x:

New amendment to 1944 Treaty with the Republic of Mexico

- Primarily an extension of Minute 319 (2012)
- Allows Mexico to store surplus water in Lake Mead
- Outlines shared shortage criteria
- Discusses future environmental flows
- Discusses future actions to address salinity issues
- Presents possible joint infrastructure projects that would have binational benefits



Green River Basin Monitoring Work

- The State Engineer's Office continues to enhance our consumptive use monitoring efforts
- Maintain and expand existing network of diversion, stream and reservoir measurement platforms
- Adding five additional weather stations during 2016 (brings total to 10)
- Continued use of remote sensed data (Landsat) to assess irrigated lands
- Working to get increased reporting from industrial users



Fontenelle Reservoir

- Looking at possible uses of Wyoming's uncontracted water to support Wyoming water users during times of severe drought
 - Water Bank?
 - Compact deliveries?
- Initiating project to assess dam rip-rap and activate additional storage space (WWDC up next)
- Evaluating Wyoming's acquisition of additional storage



Transbasin Pipelines

- Aaron Million Proposal
 - Refiled permit applications in February 2015
 - Still under review by SEO
- Front Range Coalition Proposal
 - Released feasibility study in 2015
 - Ongoing discussions with program participants
 - Nothing filed in Wyoming



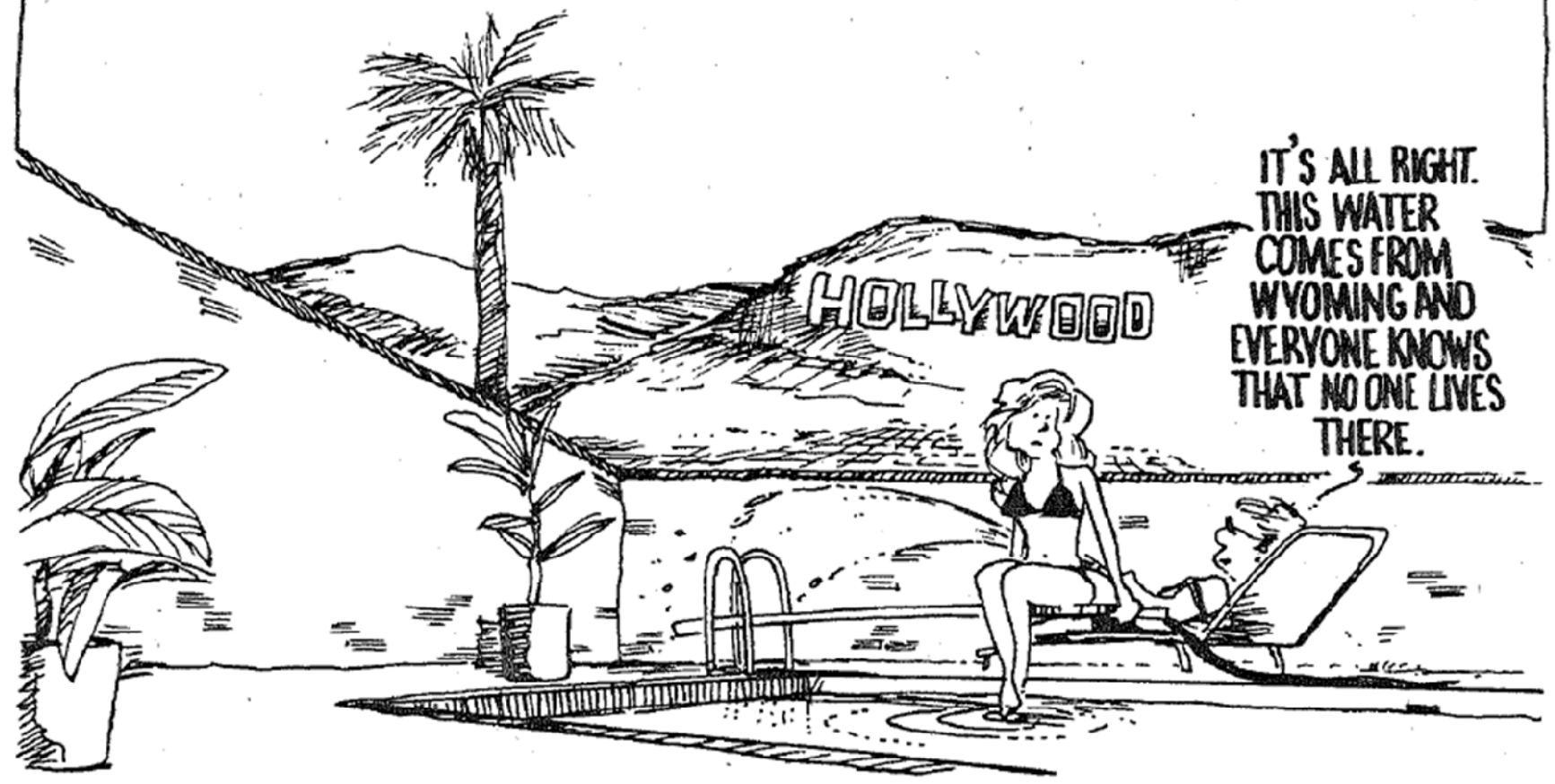
Governor Mead's Recent Colorado River Appointments

- Alternate Commissioners to the Upper Colorado River Commission
 - **Mr. Keith Burron** (Attorney; Cheyenne, WY)
 - **Mr. Randy Bolgiano** (Rancher; Boulder, WY)
 - These two join Pat Tyrrell (Commissioner) and Ben Bracken (alternate Commissioner)
- Colorado Basin Salinity Control Forum & Council
 - **Mr. Chad Espenscheid** (Rancher & Water Resource Consultant; Big Piney, WY)
 - Chad joins Pat Tyrrell and David Waterstreet (DEQ) representing Wyoming on the 7 basins states entity.
- Dan Budd previously held these positions



Questions?

MEARNEY 91



IT'S ALL RIGHT.
THIS WATER
COMES FROM
WYOMING AND
EVERYONE KNOWS
THAT NO ONE LIVES
THERE.