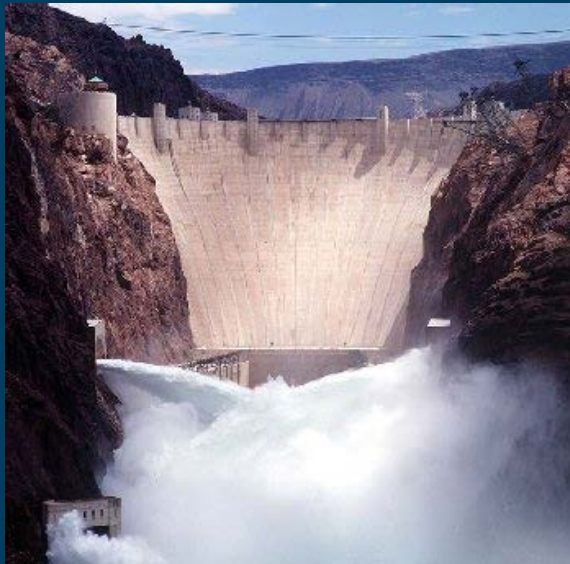


COLORADO RIVER BASIN UPDATE AND STATUS

Presented to

**Arizona Water Banking Authority
March 15, 2017**

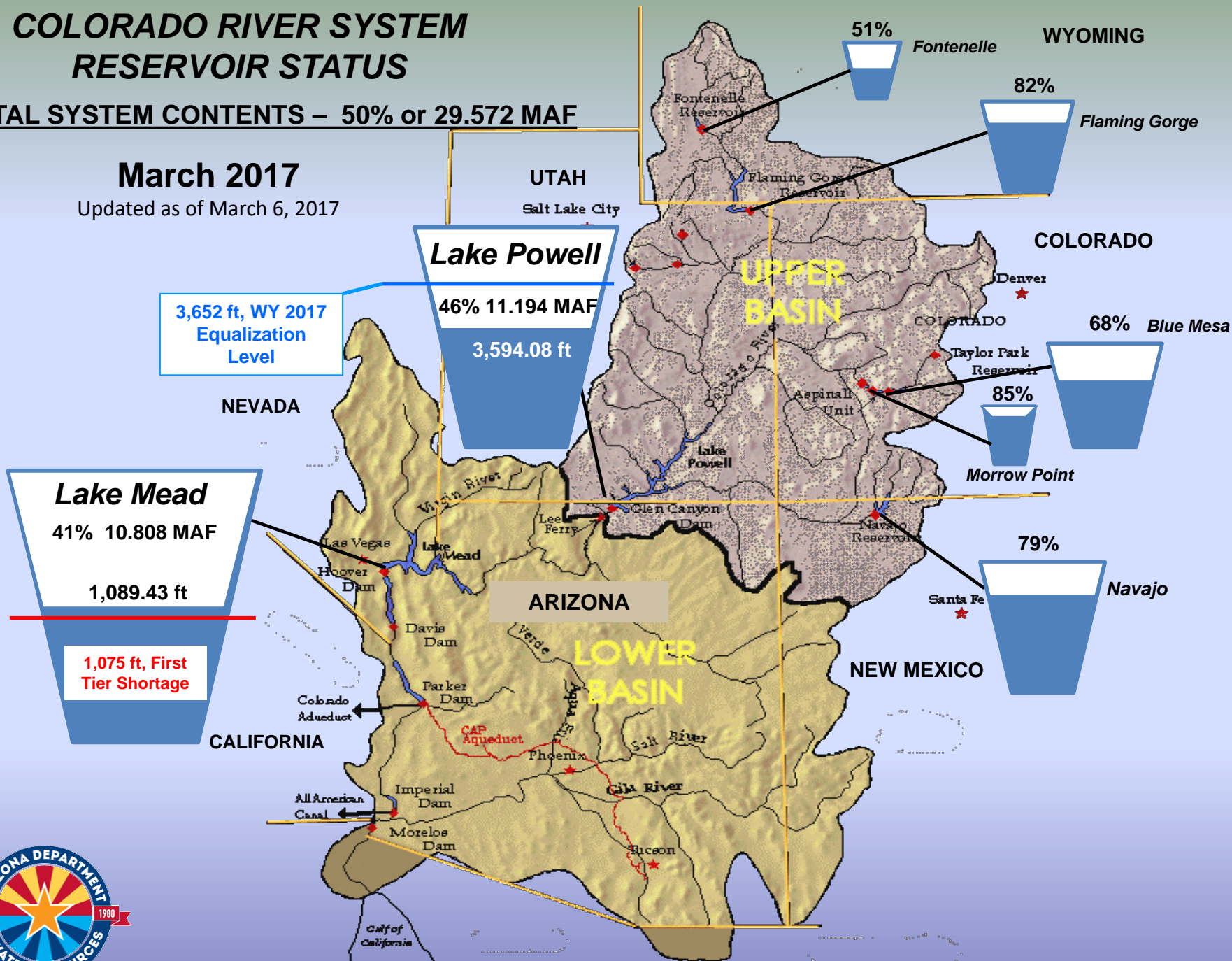


COLORADO RIVER SYSTEM RESERVOIR STATUS

TOTAL SYSTEM CONTENTS – 50% or 29.572 MAF

March 2017

Updated as of March 6, 2017

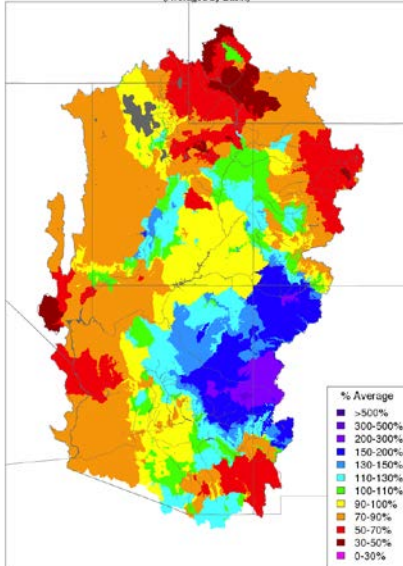


Source: United States Bureau of Reclamation



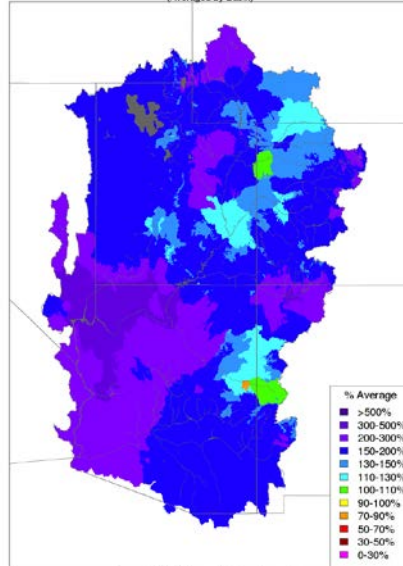
Colorado River Basin Monthly Precipitation

Monthly Precipitation - November 2016
(Averaged by Basin)



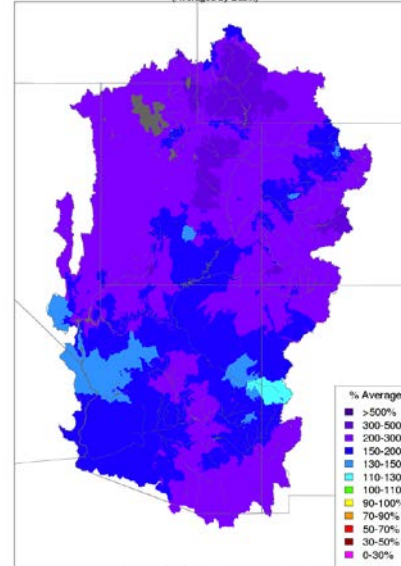
Prepared by NOAA, Colorado Basin River Forecast Center
Salt Lake City, Utah, www.cbrfc.noaa.gov

Monthly Precipitation - December 2016
(Averaged by Basin)



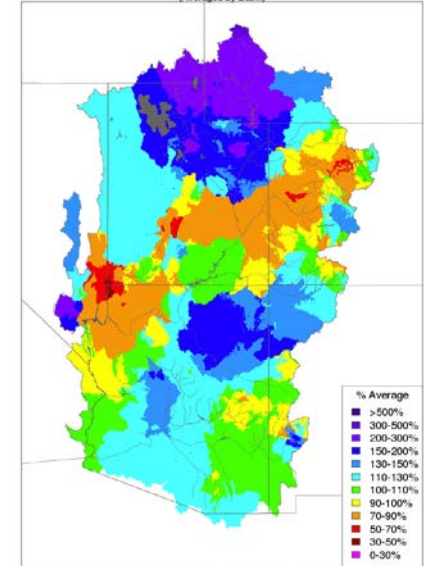
Prepared by NOAA, Colorado Basin River Forecast Center
Salt Lake City, Utah, www.cbrfc.noaa.gov

Monthly Precipitation - January 2017
(Averaged by Basin)



Prepared by NOAA, Colorado Basin River Forecast Center
Salt Lake City, Utah, www.cbrfc.noaa.gov

Monthly Precipitation - February 2017
(Averaged by Basin)



Prepared by NOAA, Colorado Basin River Forecast Center
Salt Lake City, Utah, www.cbrfc.noaa.gov

November 2016
Mostly between
50 and 100% of
normal

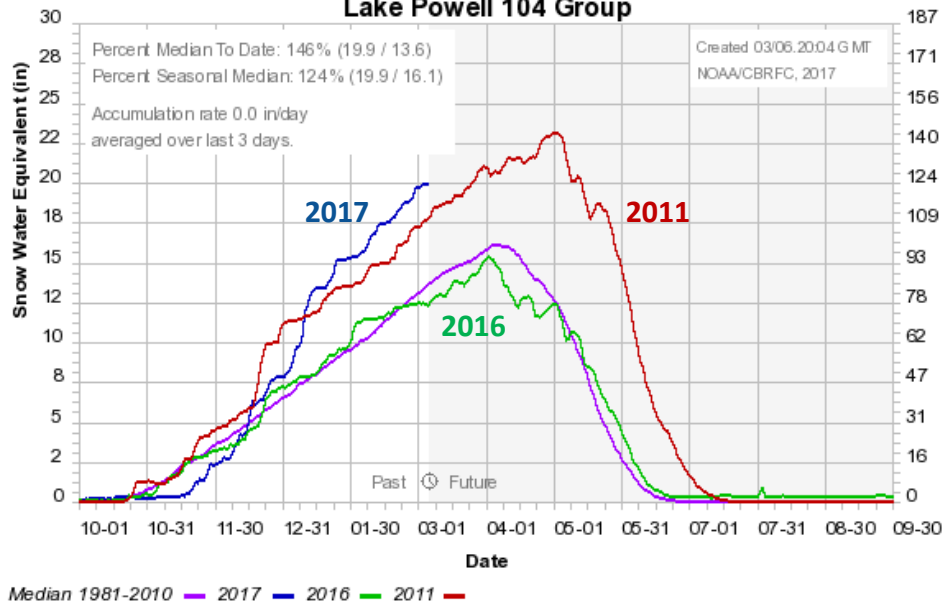
December 2016
Mostly between
150 and 300% of
normal

January 2017
Mostly between
150 and 300% of
normal

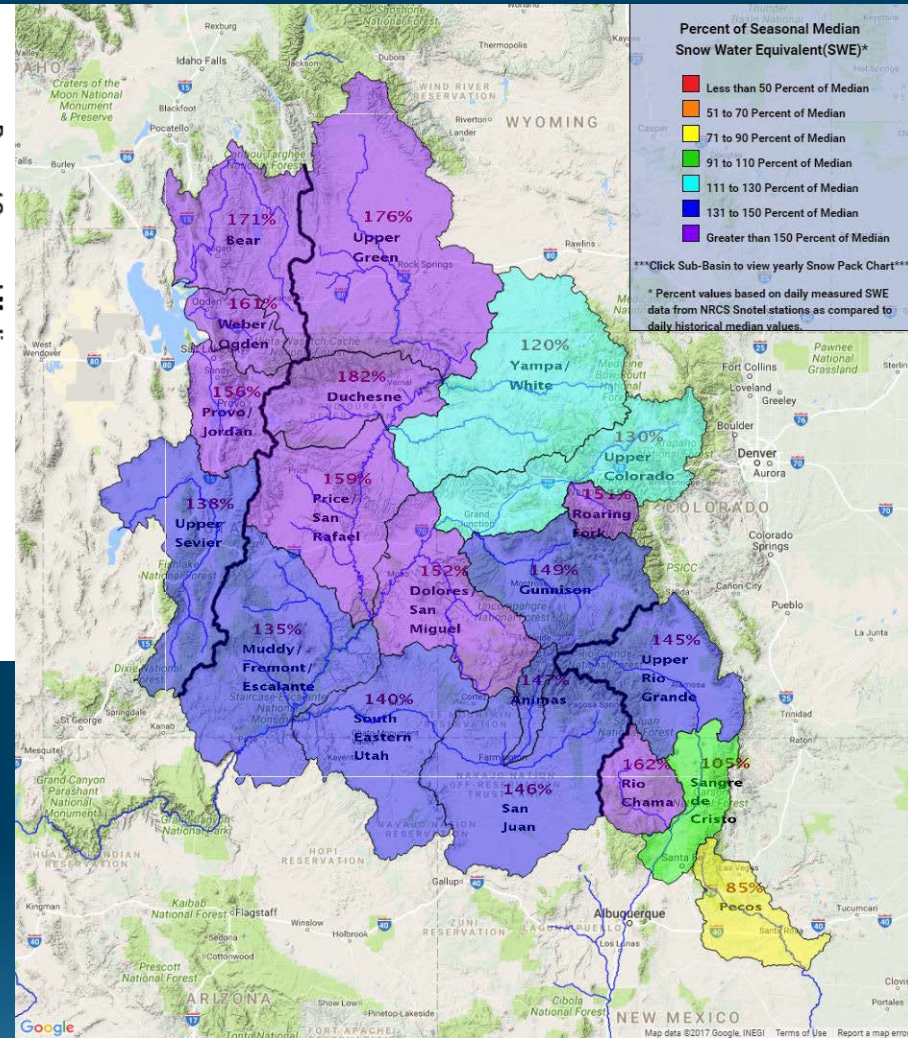
February 2017
Mostly between
70 and 130% of
normal

COLORADO RIVER BASIN FORECAST CENTER CURRENT SNOWPACK

Colorado Basin River Forecast Center
Lake Powell 104 Group



Source: Colorado Basin River Forecast Center

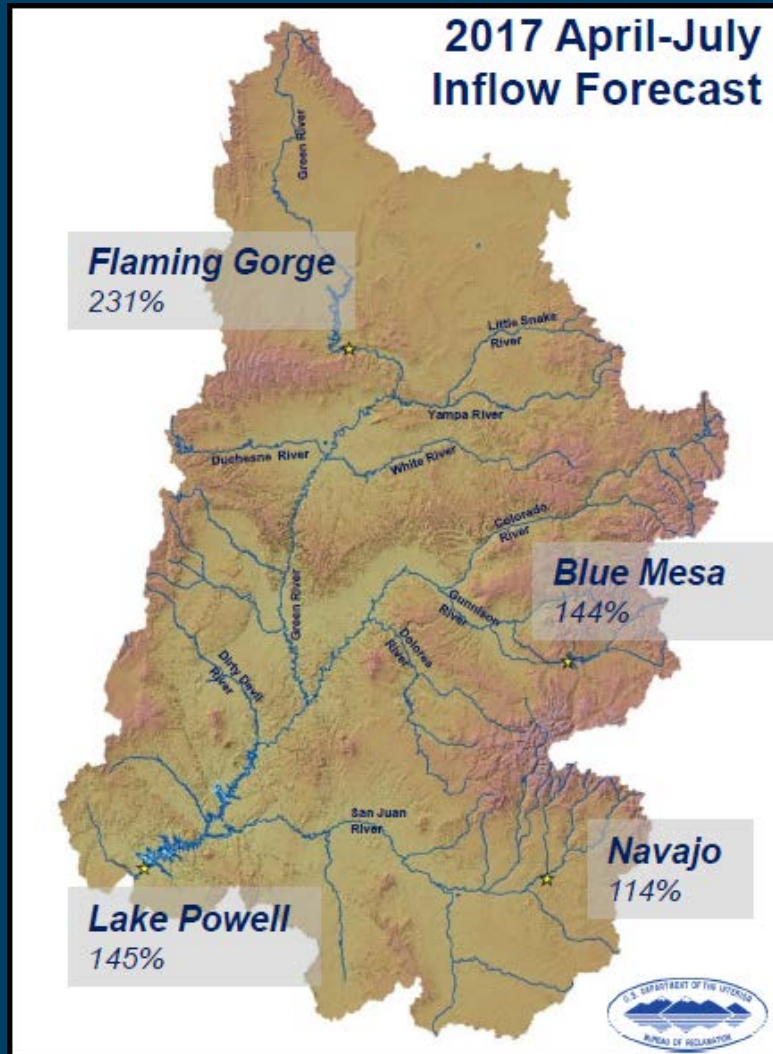


Source: Natural Resources Conservation Service

COLORADO RIVER BASIN FORECAST CENTER

INFLOW FORECAST

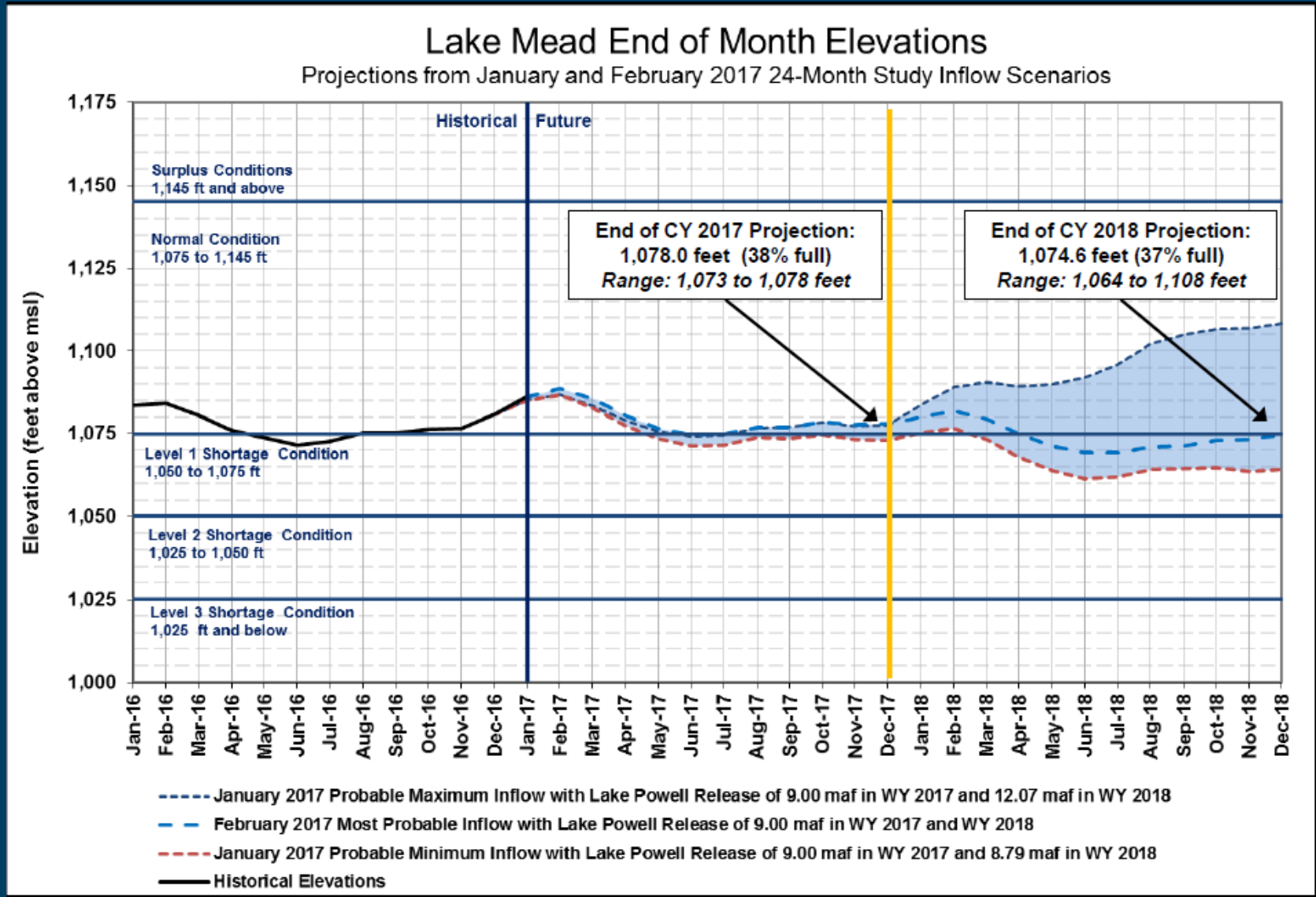
Final Forecast March 2, 2017



Month/Period	Inflow (KAF)	Percent of Average
Feb 2017 (observed)	555	141
Mar 2017	870	131
Apr 2017	1,500	142
May 2017	3,400	145
2017 April-July	10,400	145
WY 2017	14,348	132

LAKE MEAD END OF ON MONTH ELEVATIONS

January/February 2017 24-Month Study Projections



Probabilities of Lower Colorado River Basin Shortage

U.S. Bureau of Reclamation CRSS Model Run – August 2016

	2017	2018	2019	2020	2021
Probability of any level of shortage (Mead \leq 1,075 ft.)	0	48	60	60	56
1 st level shortage (Mead \leq 1,075 and \geq 1,050 ft)	0	48	50	41	33
2 nd level shortage (Mead $<$ 1,050 and \geq 1,025 ft)	0	0	10	16	16
3 rd level shortage (Mead $<$ 1,025)	0	0	0	3	7

U.S. Bureau of Reclamation MTOM/CRSS Model Run – January 2017

	2017	2018	2019	2020	2021
Probability of any level of shortage (Mead \leq 1,075 ft.)	0	34	30	29	33
1 st level shortage (Mead \leq 1,075 and \geq 1,050 ft)	0	34	30	27	25
2 nd level shortage (Mead $<$ 1,050 and \geq 1,025 ft)	0	0	$<$ 1	1	7
3 rd level shortage (Mead $<$ 1,025)	0	0	0	$<$ 1	1

Probabilities of Equalization Tier

U.S. Bureau of Reclamation CRSS Model Run – August 2016

	2017	2018	2019	2020	2021
Probability Lake Powell Equalization Tier (above 3,652 ft. in 2017)	7	21	21	28	31

U.S. Bureau of Reclamation MTOM/CRSS Model Run – January 2017

	2017	2018	2019	2020	2021
Probability Lake Powell Equalization Tier (above 3,652 ft. in 2017)	34	38	37	34	33

- 14.84 MAF current estimate from Reclamation of unregulated inflow into Lake Powell needed to reach Equalization Tier in 2017
- 11.5 MAF current estimate from Reclamation of the adjusted release from Lake Powell in 2017 if the Equalization Tier is reached