RECLANATION Managing Water in the West

Colorado River System: Current Conditions and Near-Term Outlook

Colorado River Water Users Association 2013 Annual Conference Las Vegas, NV December 11-13, 2013

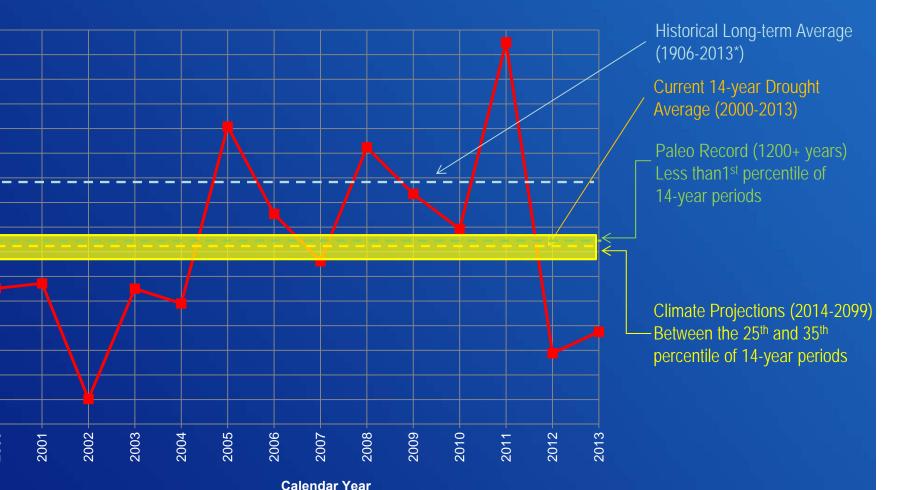


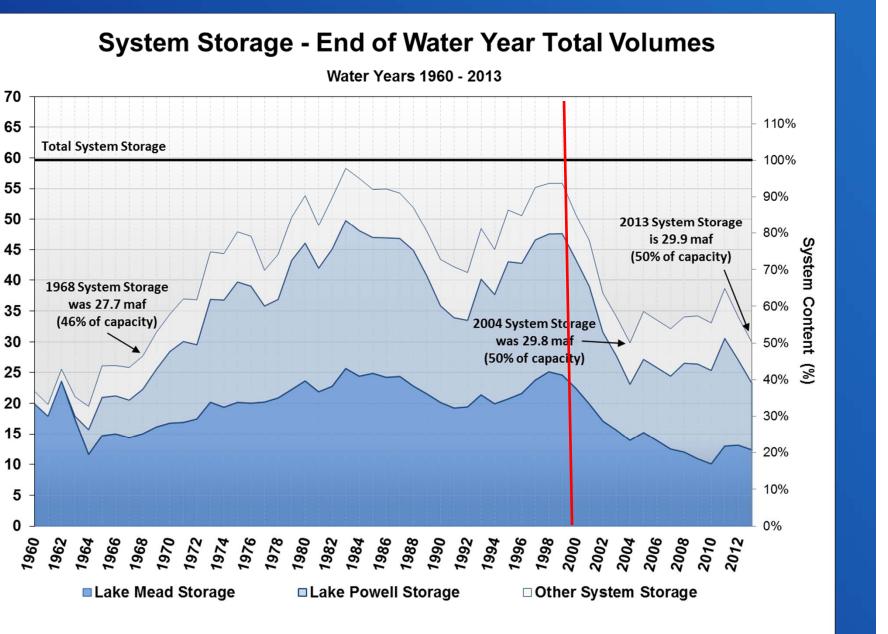
U.S. Department of the Interior Bureau of Reclamation

resentation Overview

Current Drought and Reservoir Conditions Projected Reservoir Elevations Extended Drought Scenario Volumes to Avoid Critical Elevations Summary

urrent 14-year Drought (2000-2013) atural Flow at Lees Ferry



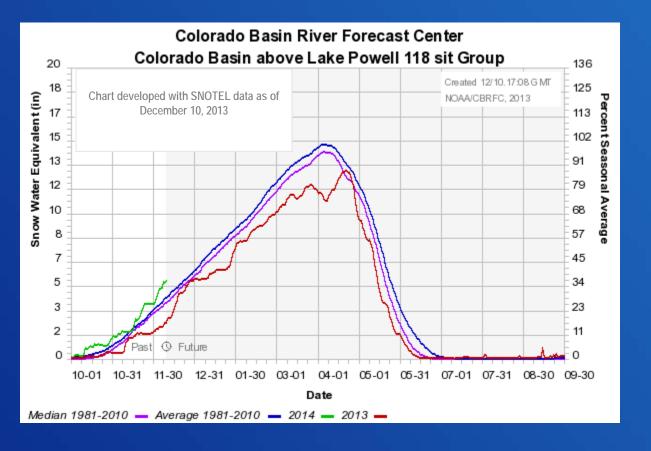


ater Year Snowpack and Precipitation of December 10, 2013

Colorado River asin above Lake Powell

Vater Year 2014 Precipitation¹ (year-to-date) 10% of average

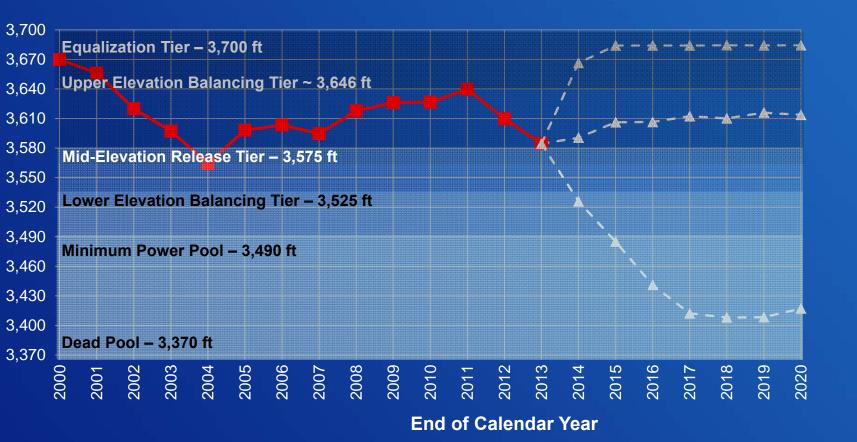
Current Snowpack¹ 27% of average



ake Powell Projected* Elevations



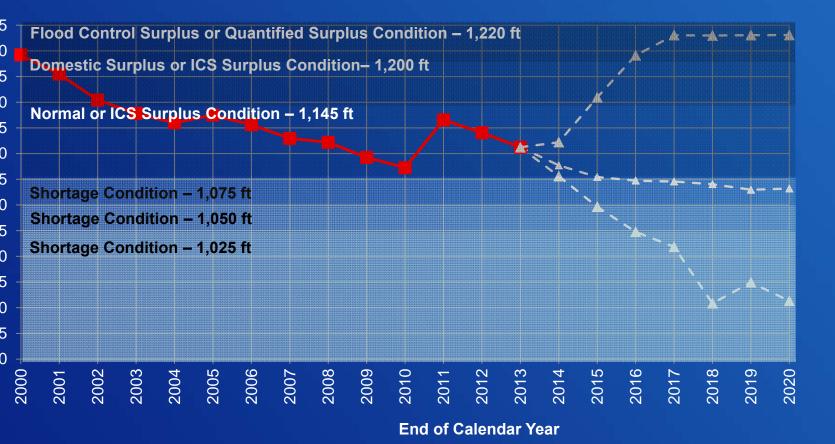
- Projected Min, Median, Max Elevations



ake Mead Projected* Elevations

Historical Elevation

Projected Min, Median, Max Elevations

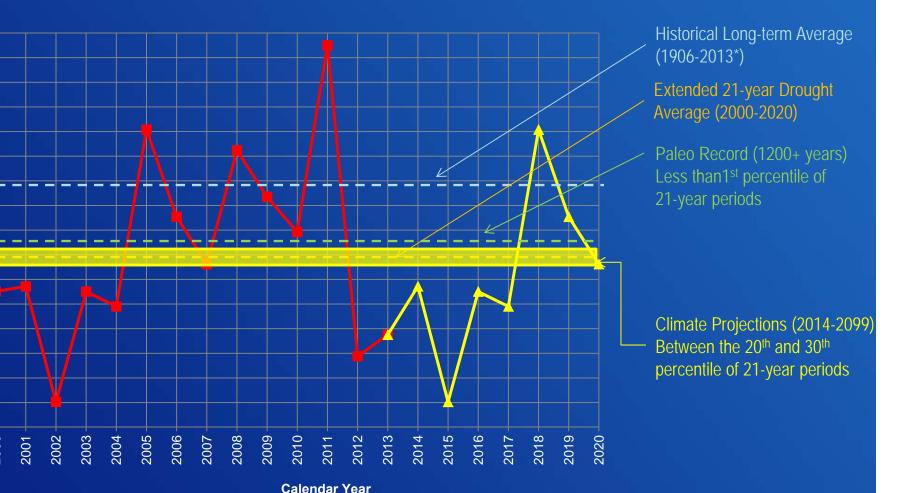


cent of Traces with Event or System Condition ults from October 2013 CRSS^{1,2} (values in percent)

	Event or System Condition	2014 ³	2015	2016	2017	2018
er in ce ell	Equalization Tier	0	17	23	30	29
	Equalization – annual release > 8.23 maf	0	17	22	30	29
	Equalization – annual release = 8.23 maf	0	<1	1	<1	<1
	Upper Elevation Balancing Tier	0	50	51	45	41
	Upper Elevation Balancing – annual release > 8.23 mat	0	8	30	34	30
	<i>Upper Elevation Balancing – annual release = 8.23 maf</i>	0	42	21	11	11
	Upper Elevation Balancing – annual release < 8.23 maf	0	<1	<1	<1	<1
	Mid-Elevation Release Tier	100	33	17	13	19
	Mid-Elevation Release – annual release = 8.23 maf	0	<1	<1	1	1
	<i>Mid-Elevation Release – annual release = 7.48 maf</i>	100	33	17	12	18
	Lower Elevation Balancing Tier	0	<1	9	12	11
in in ie	Shortage Condition – any amount (Mead ≤ 1,075 ft)	0	<1	44	54	54
	Shortage – 1 st level (Mead ≤ 1,075 and ≥ 1,050)	0	<1	43	44	32
	Shortage – 2 nd level (Mead < 1,050 and ≥ 1,025)	0	<1	1	9	18
	Shortage – 3 rd level (Mead < 1,025)	0	<1	<1	1	4
	Surplus Condition – any amount (Mead ≥ 1,145 ft)	0	<1	4	7	13
	Surplus – Flood Control	0	<1	<1	1	2
	Normal or ICS Surplus Condition	100	>99	52	39	33

voir initial conditions based on projected levels on December 31, 2013, from the October 2013 24-Month Study

xtended 21-year Drought (2000-2020) atural Flow at Lees Ferry



ake Powell Projected* Elevations



Historical Elevation

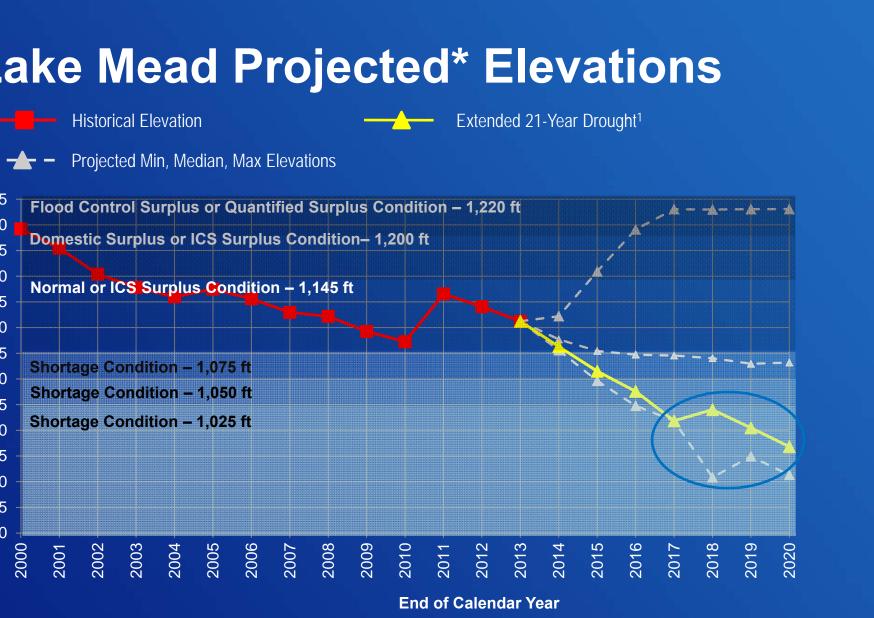


Extended 21-Year Drought¹





ted using October 2013 CRSS



ted using October 2013 CRSS







Extended 21-Year Drought¹

Projected Min, Median, Max Elevations

Extended 21-Year Drought with 3.0 MAF Option Water²



ted using October 2013 CRSS

ummary

- Fortunate to start the drought in 2000 with nearly full system conditions
- Too early to tell what runoff might be like this water year
- A wide range of future outcomes is possible through 2020, including an "extended drought"
- Putting water back into the system, through a range of options, improves system resiliency and helps to avoid critical reservoir elevations

Thank You

For further information:

www.usbr.gov/lc/riverops.html