

Lower Basin "Mass Balance"

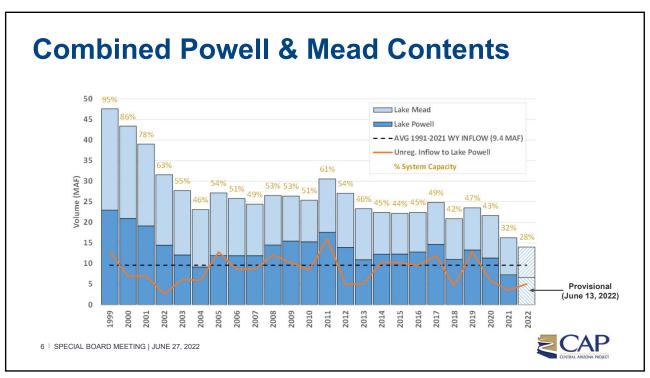
Estimated Calendar Year 2022 Physical Supply Accounting as of April 28, 2022 [Presented @ May 6, 2022 ADWR/CAP Joint Briefing]

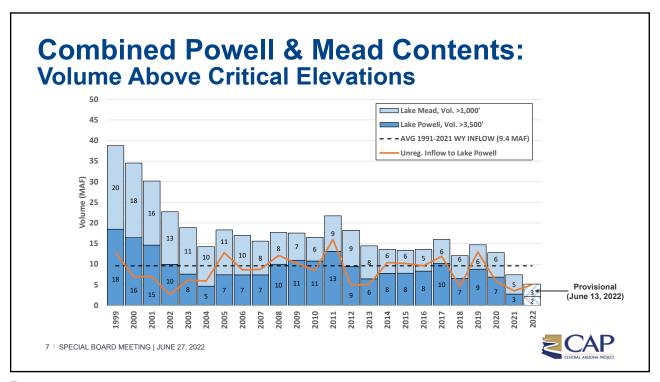
0 1 / 5		Volume (MAF)			
Supply / Demand			Planned	"Normal"	
Powell release			7.00	8.23	Data based on Bureau of Reclamation reservoir release data, decree accounting, and 24-Month Study.
Intervening flows			0.78	0.78	
Lake Mead evaporation			(0.45)	(0.45)	
Delivery Losses & Bypass Flows			(0.74)	(0.74)	
Consumptive uses	Nevada	(0.26)	(8.38)	(8.38)	Basic apportionment is 0.3 MAF
	Arizona	(2.11)			Basic apportionment is 2.8 MAF
	California	(4.59)			Basic apportionment is 4.4 MAF (~0.2 MAF withdrawal of previously conserved water)
	Mexico	(1.42)			Allocation is 1.5 MAF
Change in Lake Mead Storage			(1.79)*	(0.56)**	* Equivalent to a decline of ~23 feet of elevation. ** Equivalent to a decline of ~6 feet of elevation.

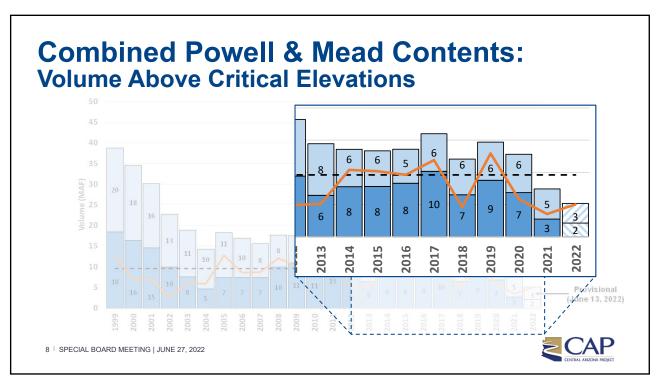
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Reclamation's Protection Volume Analysis

- Reclamation recently presented modeling results showing the volumes necessary to protect critical elevations
- Large annual reductions are required if inflows remain below average

2023-2026 Average Lake Powell Inflow	Annual Volumes (maf) Needed to Protect:			
Percent of 1991-2020 Avg*	Powell 3,525' & Mead 1,020' Avg (Min – Max)	Powell 3,500' & Mead 1,000' Avg (Min – Max)		
Greater than 95%	0.6 (0.3 – 2.0)	0.2 (0.0 – 1.4)		
80% - 95%	1.3 (0.3 – 2.8)	0.6 (0.0 – 2.1)		
64% - 79%	2.1 (1.1 – 3.1)	1.3 (0.4 – 2. 3)		
50% - 63%	3.5 (2.5 – 4.5)	2.7 (1.7 – 3.7)		
Less than 50%	4.2 (4.2 – 4.2)	3.5 (3.5 – 3.5)		

Extracted from June 16, 2022 "Colorado River System Mid-term Projections" presentation at 42nd Annual Colorado Law Conference on Natural Resources, Boulder, Colorado

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Reclamation's Protection Volume Analysis

 Reclamation's summary conclusions emphasize the urgency of acting and the implications of delay

Summary

- We do not know what runoff will be next year, but if it is below average, we are vulnerable to falling below the 3,525'/1,020' combined storage volume if we do not act.
- Even with a good year, we can quickly be back in the same position we are in today, or worse.
- If 2023 inflow is like 2022, Lake Powell and Lake Mead together need an additional 2.5 maf to stay above the 3,525'/1,020' combined storage volume.
- Each year we fall short of protecting whatever elevations we choose to protect, the volumes needed to stabilize the system in future years increase.

Slide from June 16, 2022 "Colorado River System Mid-term Projections" presentation at 42nd Annual Colorado Law Conference on Natural Resources, Boulder, Colorado

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CAP Water Uses

- There is a very large range in size of Indian and M&I priority entitlements:
 - Largest: 191,200 AF (Gila River Indian Community)
 - Smallest: 64 AF (Water Utility of Greater Tonopah)
- · Indian priority water has been fully ordered and used in recent years
 - ~40% of the Indian priority supply is leased to, or exchanged with, M&I water users
 - Most leases are long-term
- Almost all M&I subcontractors have been ordering and using their full entitlements

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CAP Water Use

- There is a diversity of end-uses: water treatment plants, annual storage & recovery, long-term storage credit accrual, mining, and some direct use by turf facilities and cooling towers
 - All uses are beneficial
 - All uses are compliant with contract and subcontract terms
- All users are impacted by shortage, though the specific impacts vary

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