

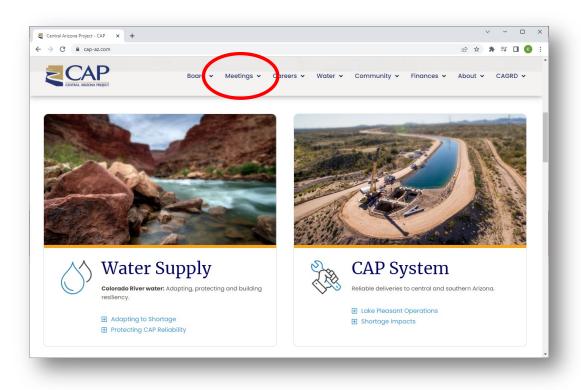
CAP Water User's Briefing: 2023 Look Ahead

CAP Headquarters and Livestreamed June 23, 2022

YOUR WATER. YOUR FUTURE.

Meeting Logistics

- Comments and questions may be sent by email to: questions@cap-az.com
- Meeting material is posted on the CAP website under "Meetings" → "Briefings and Roundtables"
 - www.cap-az.com





Agenda

- Welcome and Opening Remarks—Cooke
- Current Hydrology and Basin Status—Dent
- 2023 CAP Shortage Impacts and Preparation
 - Shortage Projections—Seasholes
 - Water and Power Operations—Francom
 - Finances—Dunlap
 - Communications and Outreach—Schwartz-Manock
- Questions
- Next Steps

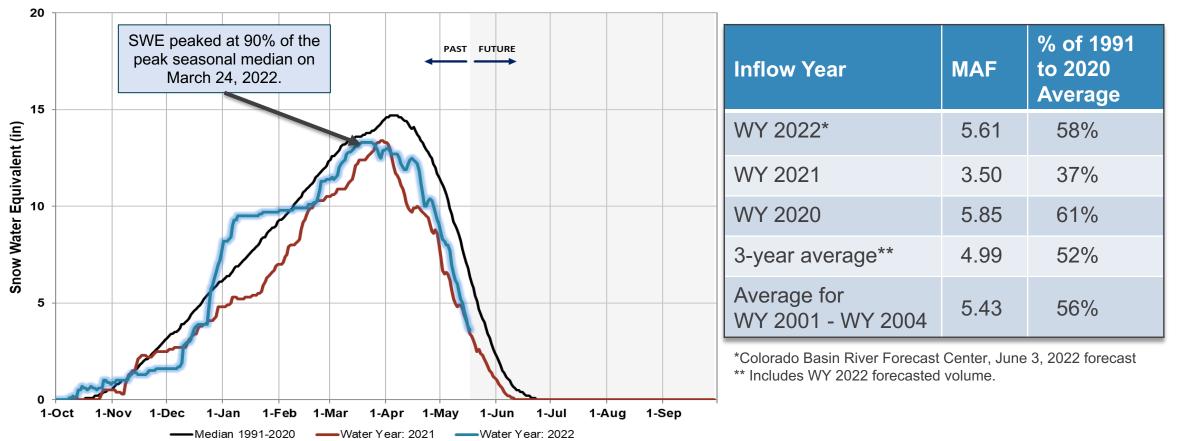


Current Hydrology and Basin Status

Patrick Dent Assistant General Manager, Water Policy



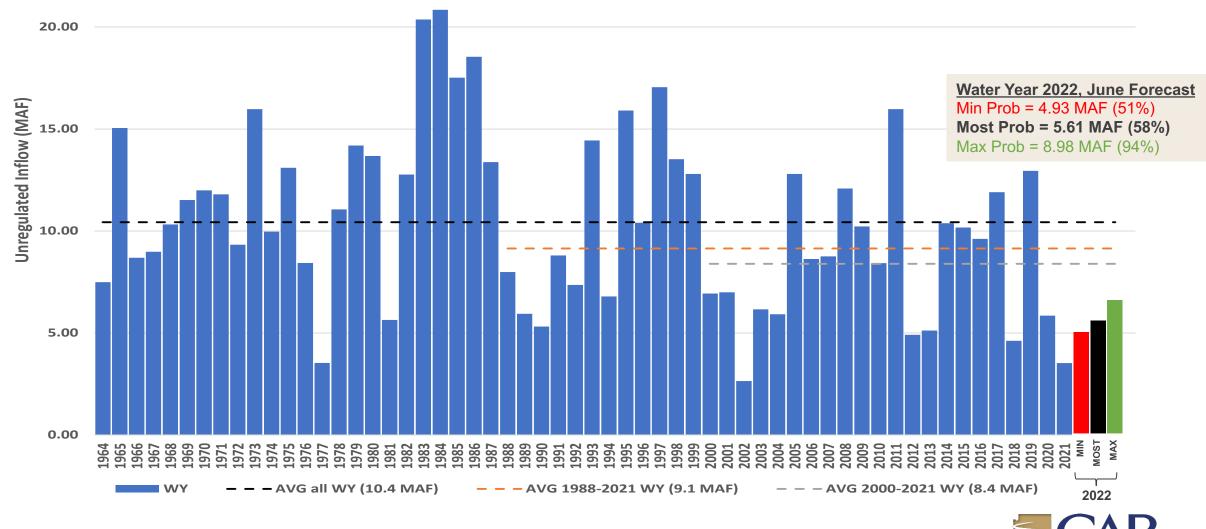
Lake Powell Inflows



Colorado River Basin Above Lake Powell



Lake Powell Inflows



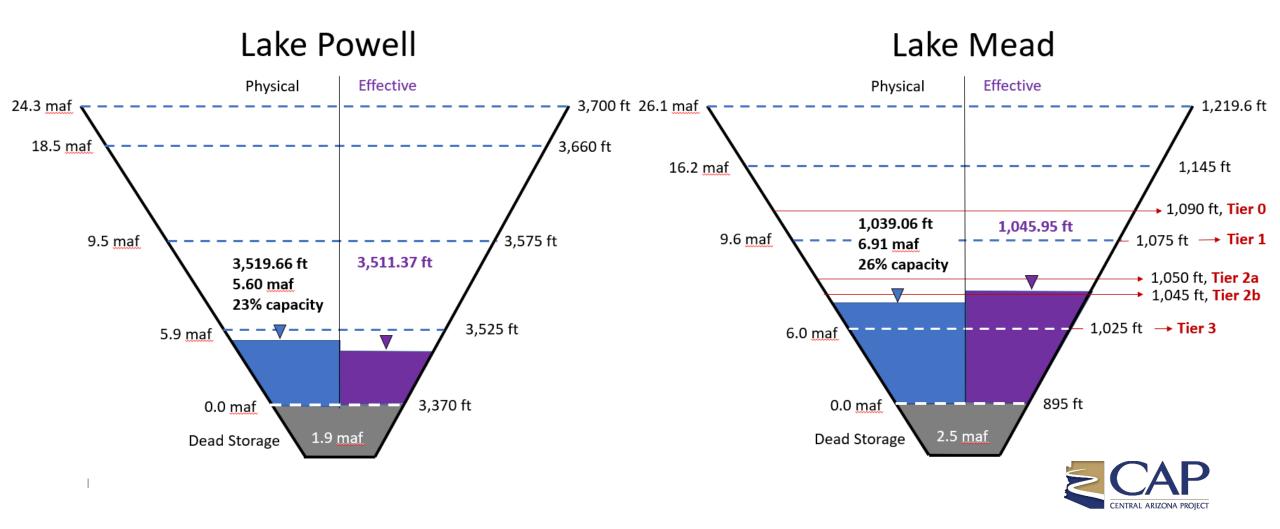
CENTRAL ARIZONA PROJECT



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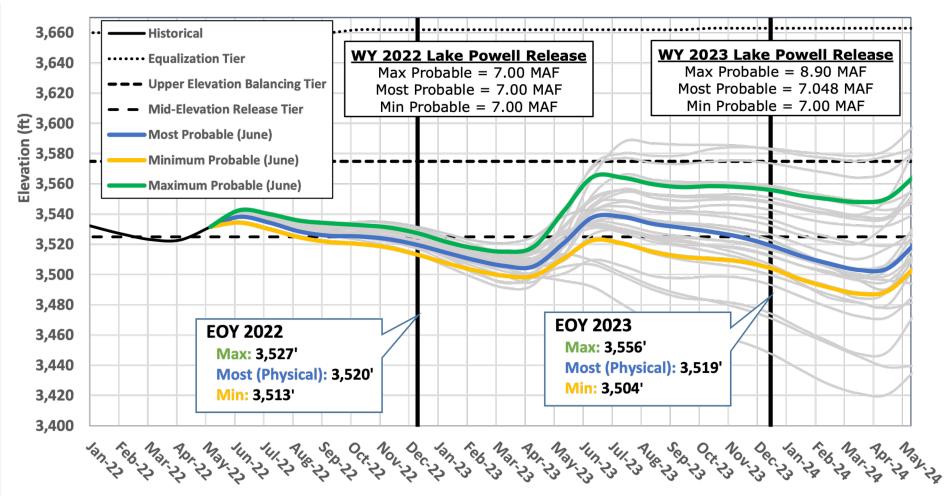
Lake Powell and Mead Contents

End of Calendar Year 2022 Projections June 2022 24-Month Study Most Probable Inflow Scenario



Lake Powell Elevations

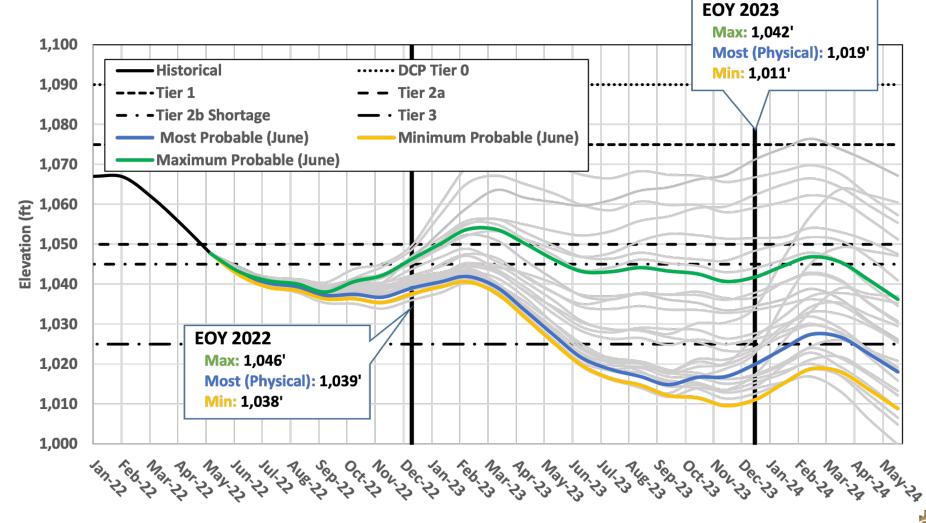
June 2022 24-Month Study + CRMMS-ESP





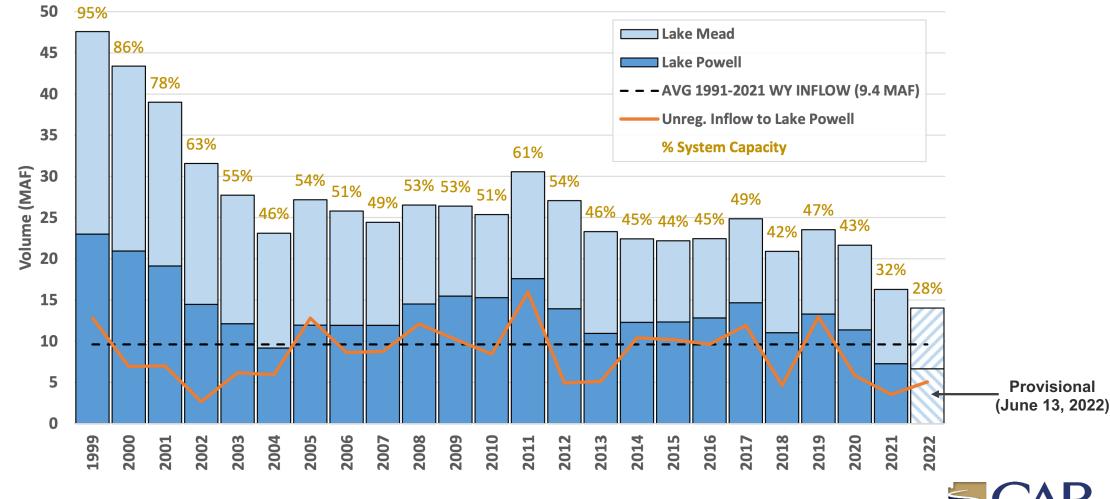
Lake Mead Elevations

June 2022 24-Month Study + CRMMS-ESP



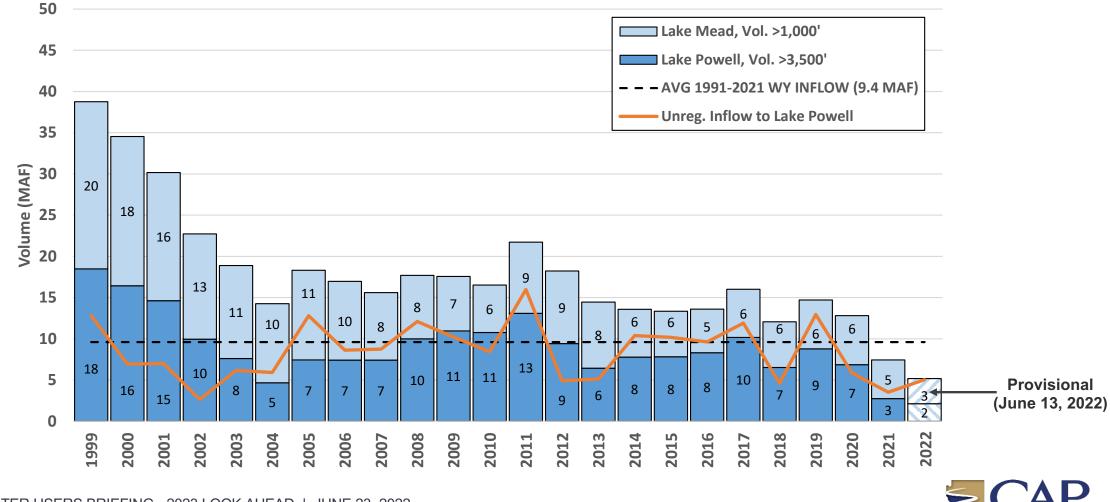


Combined Powell & Mead Contents



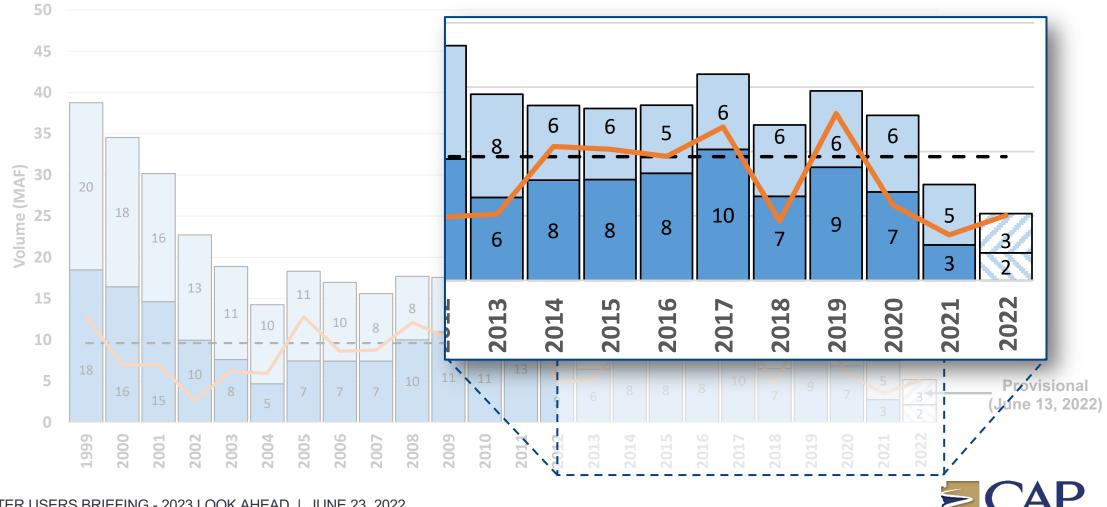
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Combined Powell & Mead Contents: Volume Above Critical Elevations



INTRAL ARIZONA PROIFC

Combined Powell & Mead Contents: Volume Above Critical Elevations



FNTRAL ARIZONA PROIFC

Lower Basin "Mass Balance"

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

Supply / Demand			Volume (MAF)			
			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. 	

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



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



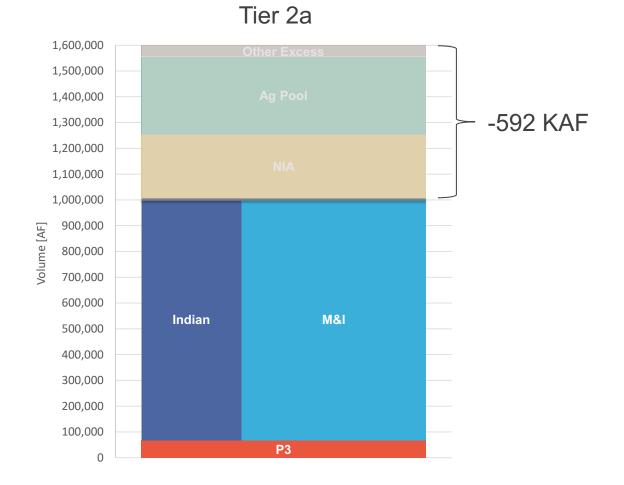
2023 CAP Shortage Impacts and Preparation: Shortage Projections

Ken Seasholes Manager, Resource Planning & Analysis

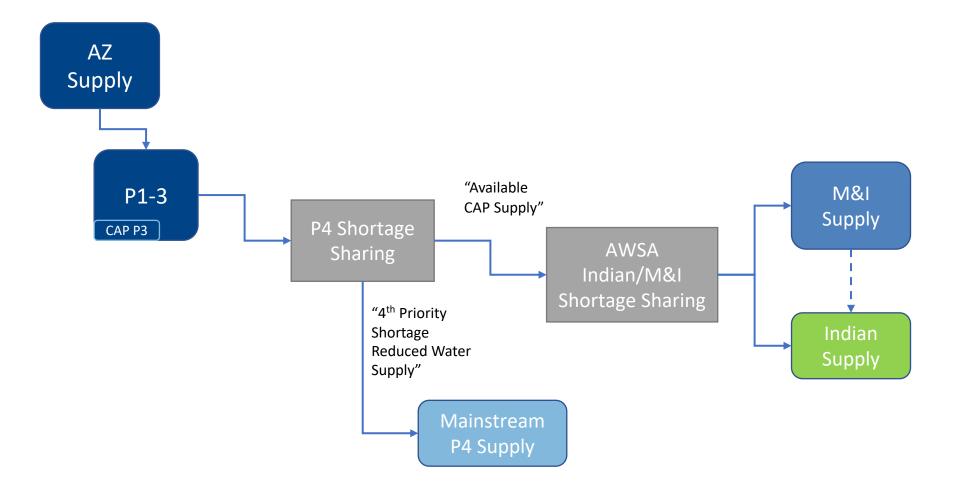


Estimated 2023 Shortage Impacts 2007 Guideline Reductions and LBDCP Mandatory Contributions

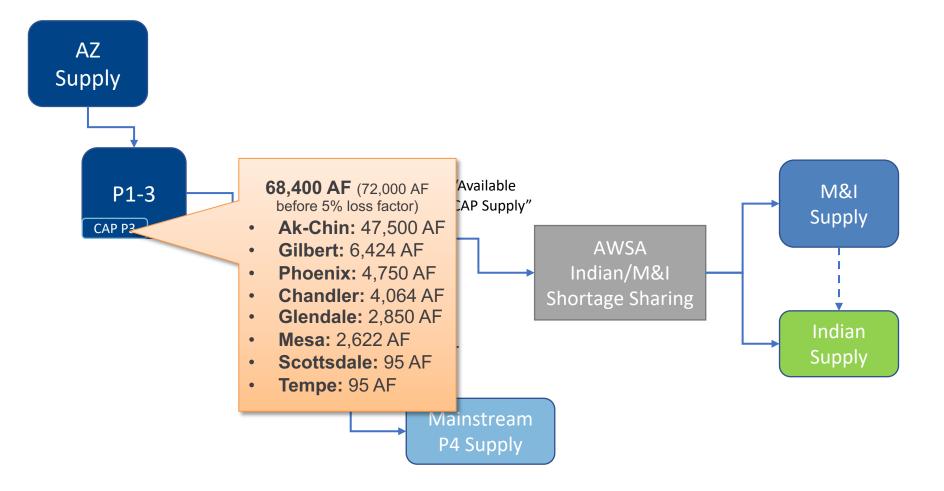
- Current official projections still indicate the likelihood of Tier 2a determination in 2023
 - 1050' <= Tier 2a > 1045'



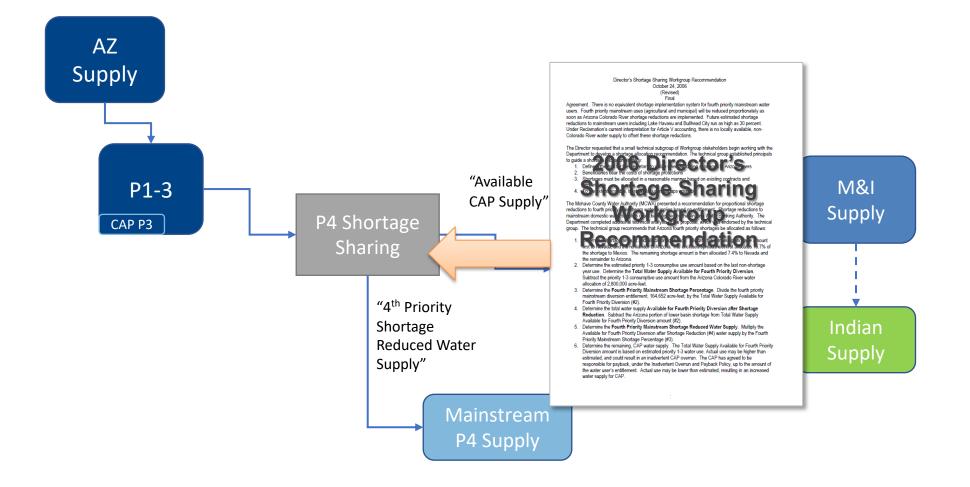




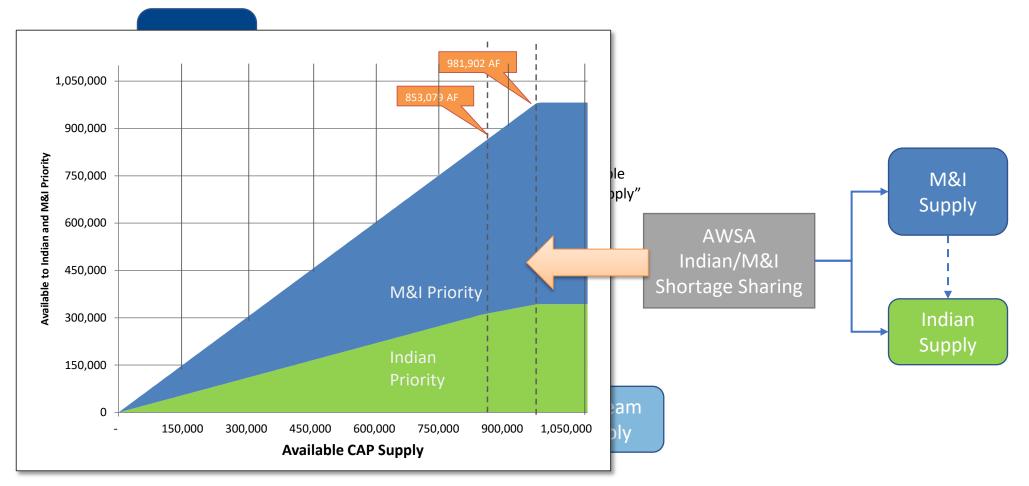




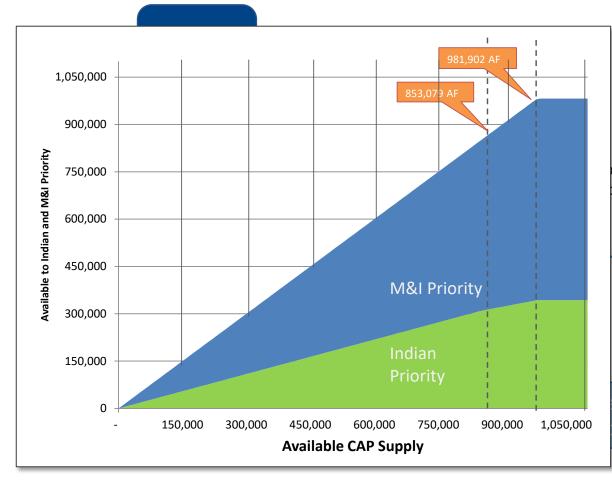












Distribution of 4th Priority CAP Delivery Supply Based on AWSA Formula and Estimated 2023 Water Orders*

	Delivery	Indian P	riority	M&I Priority					
ly"	Supply [AF]	Pool Availability	Pool Size [AF]	Pool Availability	Pool Size [AF]				
-	500,000	47%	157,000	45%	274,600				
	400,000	36%	120,600	35%	211,000				
	300,000	25%	84,200	24%	147,400				
	200,000	14%	47,900	14%	83,700				
m	100,000	4%	11,500	3%	20,100				
		* For illustration purpasso only							

* For illustration purposes only.



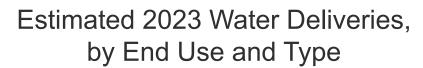
CAP Water Uses

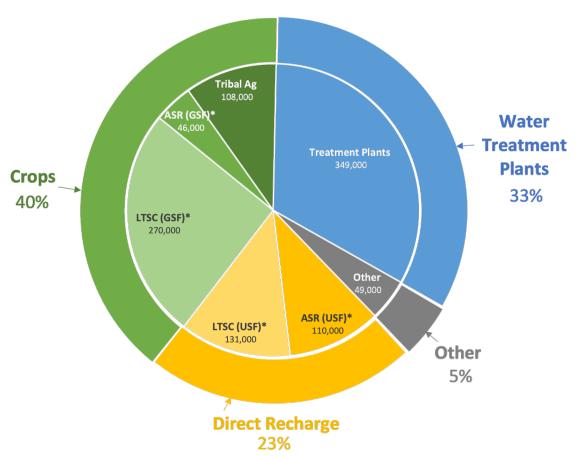
- There is a very large range in size of Indian and M&I priority entitlements:
 - Largest: 191,200 AF (Gila River Indian Community)
 - Smallest: 64 AF (Water Utility of Greater Tonopah)
- Indian priority water has been fully ordered and used in recent years
 - ~40% of the Indian priority supply is leased 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



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





*The split between Annual Storage & Recovery versus LTSC accrual is an estimate based on recent history and projections



2023 CAP Shortage Impacts and Preparation: Water and Power Operations

Darrin Francom

Assistant General Manager, Operations, Maintenance, Engineering



Water and Power Operations

- Diversion Pumping / Energy Shaping
 - Continue Focus Diversion Pumping On Low-Cost Months and Hours
 - 2023 Energy Acquisition Based on 1 MAF
 - Reduced Diversions Will Reduce Pumping Energy Rate
 - Reduce Energy Needs Sell off Surplus (expect above purchase price)
 - Increased % of Energy Use in Low Cost "Duck Curve" Hours
- Lake Pleasant Operations
 - Fill Lake Pleasant in Spring, Release in Summer Assume Same Seasonal Shape
 - Evaluate Operational Storage Reserve (2 month supply) Could Lower Operating Band
 - Lower = Less Evaporative Losses

Water and Power Operations

- Water Quality
 - Strive to Maintain Water Consistency (Co. River vs. Lake Pleasant Blends)
 - Active Communication with WTP Operators
 - AquaPortal Real-Time Data Sharing
- Asset Management / Maintenance
 - Not Highly Impacted
 - Need to Manage Physical Assets Remains



2023 CAP Shortage Impacts and Preparation: Finances

Douglas Dunlap Manager, Finance and Accounting





- 2023 shortage impacts are still being evaluated and will most likely evolve over the next several months
- Water Delivery Rates
 - Fixed OM&R will increase proportionately with water reductions
 - Energy may decrease
 - CAWCD Board will determine what, if any, relief to address rate increases
 - 2023 Monthly billing will be at the currently posted Tier 1 rates and then reconciled/settled in April 2024.





- CAWCD maintains reserves for unexpected events and extraordinary needs
 - Board Established Reserves Projection for 2022 Year End
 - <u>Strategic Reserves</u>: \$161 million
 - Should be maintained for unanticipated needs
 - Extraordinary Cost Reserve: \$188 million
 - Though established for specific projects, could be temporarily redirected for current needs
- 2023/2024 Tax Revenues
 - Levied rates and usage to be determined by the CAWCD Board
 - General ad valorem taxes is estimated at \$69M at 10-cents per Assessed Value
 - Water storage tax is estimated at \$28M at 4-cents per Assessed Value



2023 CAP Shortage Impacts and Preparation: Communications and Outreach

Bridget Schwartz-Manock Director, Public Affairs



Stakeholder Outreach and Communications

- CAP is committed to meeting regularly with water users and stakeholders to share information, solicit feedback and to provide timely information
 - Board Member Outreach
 - Water Users Briefings
 - Roundtables
 - Individualized meetings with CAP staff
 - Community presentations
 - CAP University
 - KnowYourWaterNews.com



Stakeholder & Community Relations Team

- Tony Staffaroni Stakeholder & Community Relations Manager
 - astaffaroni@cap-az.com 623.869.2397
 - Mitch Basefsky Outreach Coordinator
 - Pima and Pinal counties
 - Martin Stiles Outreach Coordinator
 - West Valley cites and towns
 - Tammi Watson Outreach Coordinator
 - East Valley cities and towns
 - Thomas Throssell Outreach Coordinator
 - Tribal outreach



Points of Contact

- Jeff Gray Legislative Affairs Manager
 - State and Federal Officials
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 - 623.869.2425
- DeEtte Person PIO
 - Media Inquiries
 - <u>dperson@cap-az.com</u>
 - 623.869.2597



Questions?



Next Steps & Closing Remarks

