



**Technical
Customer Advisory Committee**

AGENDA

Members

Elias Archuleta
Mark Begay
John Fleck
Brian Freeman
Kerry J. Howe

Donald T. Lopez
Anjali Mulchandani
Jill Peterson
Mario Nuño-Whelan

Attendance: Public participation for this meeting will be via WebEx video conference. To request login information for this meeting contact Jordan Salas at jsalas@abcwua.org or 505-289-3100. Requests for login information must be received before 2:00 PM on Thursday, January 9, 2025. Public comment must be submitted via email to Jordan Salas at jsalas@abcwua.org before 2:00 PM on Thursday, January 9, 2025.

Thursday, January 9, 2025

4:00 PM

**1441 Mission Ave NE
Conference Room 204**

1. Call to Order
2. Approval of Agenda
3. Election of Chair and Vice-Chair
4. Approval of December 5, 2024, Action Summary
5. Approval of Open Meetings Resolution
6. TCAC 2025 Workplan Review
7. Public Comment
8. Water Report
9. San Juan Chama Project Contractors Association
10. Colorado River Update
11. Other Business
12. Adjournment

NOTICE TO PERSONS WITH DISABILITIES: If you have a disability and require special assistance to participate in this meeting, please contact the Water Utility Authority Office, Suite 5012, Albuquerque/Bernalillo County Government Center, phone 289-3100, as soon as possible prior to the meeting date.

**ALBUQUERQUE BERNALILLO COUNTY
WATER UTILITY AUTHORITY
TECHNICAL CUSTOMER ADVISORY COMMITTEE**

RESOLUTION

**DETERMINING REASONABLE NOTICE OF PUBLIC MEETINGS OF THE
TECHNICAL CUSTOMER ADVISORY COMMITTEE**

WHEREAS, the Albuquerque Bernalillo County Water Utility Authority's Technical Customer Advisory Committee (Committee) meets in regular session at Conference Room 204, 1441 Mission Ave NE, and other locations; and

WHEREAS, Section 10-15-1(B) of the Open Meetings Act (NMSA 1978, Sections 10-15-1 to Section 10-15-4) states that, except as otherwise provided in the constitution of New Mexico or the Open Meetings Act, all meetings of a quorum of members of any board, committee, administrative adjudicatory body or other policy making body of any state or local agency held for the purpose of formulating public policy, discussing public business or for the purpose of taking any action within the authority of or the delegated authority of such body, are declared to be public meetings open to the public at all times; and

WHEREAS, any meetings subject to the Open Meetings Act at which the discussion or adoption of any proposed ordinance, resolution, rule, regulation or formal action occurs shall be held only after reasonable notice to the public; and

WHEREAS, Section 10-15-1(D) of the Open Meetings Act requires the Committee to determine at least annually what constitutes reasonable notice of its public meetings.

BE IT RESOLVED BY THE COMMITTEE:

Section 1. Meetings of the Committee will normally be held in Conference Room 204 of 1441 Mission Ave NE, Albuquerque, New Mexico, and other locations as needed.

Section 2. Regular meetings will normally be held on the first Thursday of each month. The agenda will normally be available seventy-two (72) hours prior to the meeting on the Water Authority website and at the offices of the Water Authority.

Section 3. Special meetings may be called by the Chair of the Committee upon seventy-two (72) hours notice. Special Meetings shall be subject to the same notice and agenda availability requirements as noted for regular meetings in Section 2.

Section 4. Emergency meetings will be called only under circumstances when an unexpected occurrence or condition, or the state resulting there from, requires immediate consideration or action to protect the health, safety and property of citizens or to protect the public body from substantial financial loss. The Committee will avoid emergency meetings whenever possible. Emergency meetings may be called by the Chair of the Committee upon twenty-four (24) hours notice. The notice for all emergency meetings shall include an agenda for the meeting or information on how the public may obtain a copy of the agenda.

Section 5. For the purpose of regular and special meetings described in Sections 2 and 3 of this resolution, notice requirements are met if notice of the date, time and place are posted at least seventy-two (72) hours prior to the meeting on the Water Authority website and on the lobby bulletin board of the Albuquerque/ Bernalillo County Government Center. The Secretary of the Committee shall also provide copies of the above information to those broadcast stations licensed by the Federal Communications Committee and newspapers of general circulation in Albuquerque, which entities have made a written request for notice of public meetings.

Section 6. For the purpose of emergency meetings described in Section 4 of this resolution, notice requirements shall be met by posting notice of the date, time, place and agenda on the Water Authority website and in the lobby of the Albuquerque/Bernalillo County Government Center. The Secretary of the Committee shall also provide copies of the above information to those broadcast stations licensed by the Federal Communications Committee and newspapers of general circulation in Albuquerque, which entities have made a written request for notice of public meetings.

Section 7. In addition to the information specified above, all notices shall include the following language, except the last sentence applies only to full Committee meetings:

NOTICE TO PERSONS WITH DISABILITIES: If you have a disability and require special assistance to participate in this meeting, please contact the Water Utility Authority Office, Suite 5012, Albuquerque/Bernalillo County Government Center, phone 289-3100, as soon as possible prior to the meeting date.”

Section 8. Cancellations and different meeting times and places may be announced at prior meetings of the full Committee. Cancellations so announced shall also have notice given by the same methods and time frames as provided for regular meetings in Section 2. Weather, lack of quorum and other related issues may cause the cancellation of a meeting.

Section 9. Action summary minutes shall be made of all open meetings with the following minimal information:

A. Date, time, and place of meeting

B. Names of staff in attendance and a list of members present

C. A general statement of each discussion topic and of how each member voted on any motion before the Committee. A draft copy of the minutes shall be available within ten (10) working days following each meeting. Minutes do not become official until approved by the Committee at a subsequent meeting.

Section 10. Closed meetings shall not be held except as provided in Open Meetings Act.

Section 11. All or any part of this resolution may be amended or modified by the Committee from time to time. At a minimum, the Committee shall review the resolution annually as required by the Open Meetings Act.



Technical Customer Advisory Committee 2025 Work Plan

The TCAC workplan is intended to plan for the presentations and discussion topics for the year. The topics and timelines may change as needed to address topical and timely subject matters.

1st Quarter

Non-Functional Turf (Mark Kelly/Amos Arber)

FY25 Goals and Objectives (Marta Ortiz/Susan Lander)

Colorado River update (Diane Agnew)

San Juan Chama Project Contractors Association (Mark Kelly)

Endangered Species Collaborative Program (Mark Kelly)

Endangered Species Listing (Francesca Shirley)

Rio Chama Update

2nd Quarter

Summer Conservation Planning (Amos Arber)

2025 Annual Operating Plan (AOP) (Diane Agnew)

FY25 Operating/Capital Budgets (Marta Ortiz, Susan Lander, Jon Daniels)

Consumer Confidence Report (Jeff Pompeo)

Lead and Copper Rule Update (Jeff Pompeo)

Rio Grande Compact Update (Mark Kelly/Diane Agnew)

3rd Quarter

Federal Funding Updates (Luz Carreon/Jon Daniels)

Water Conservation (Amos Arber)

Source Water Protection Update (Kelsey Bicknell)

Asset Management (Jon Daniels)

Southside Water Reclamation Plant (SWRP) Outfall Project Update (Diane Agnew)

SWRP Outfall Tour

PFAS Regulations USMR No. 5 (Danielle Shuryn)

4th Quarter

Kirtland Air Force Base Project Update (Kelsey Bicknell)

Education Program Update (Jeff Tuttle)

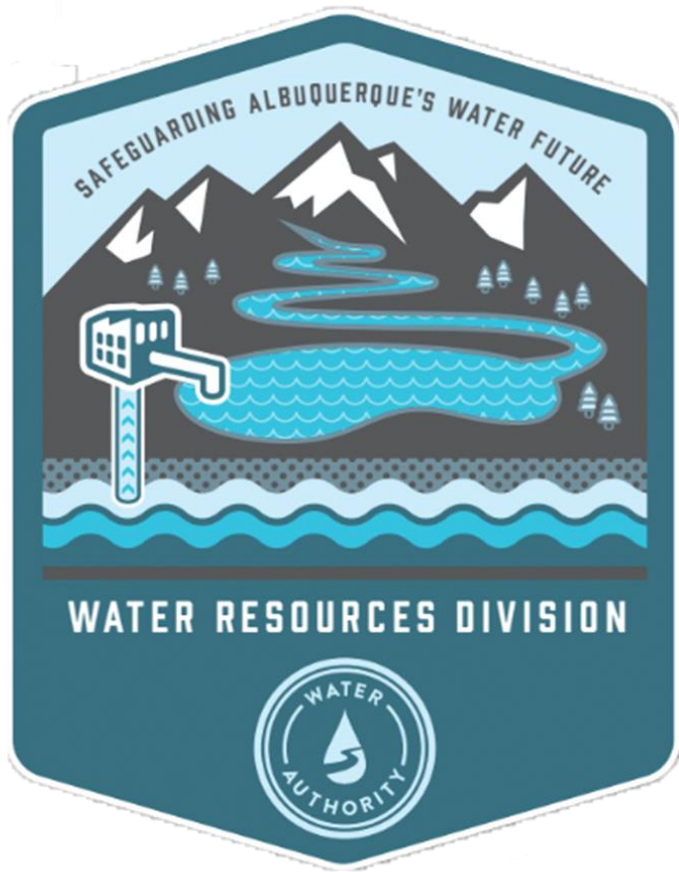
NODES/Dirty Water Flushing (Johanna Malouff)

AMI (Amos Arber)

Water Treatment Plant Startup (Cassia Sanchez)

Aquifer Storage Recovery (ASR) Wells Update (Diane Agnew)

Bosque Reclamation Plant Update

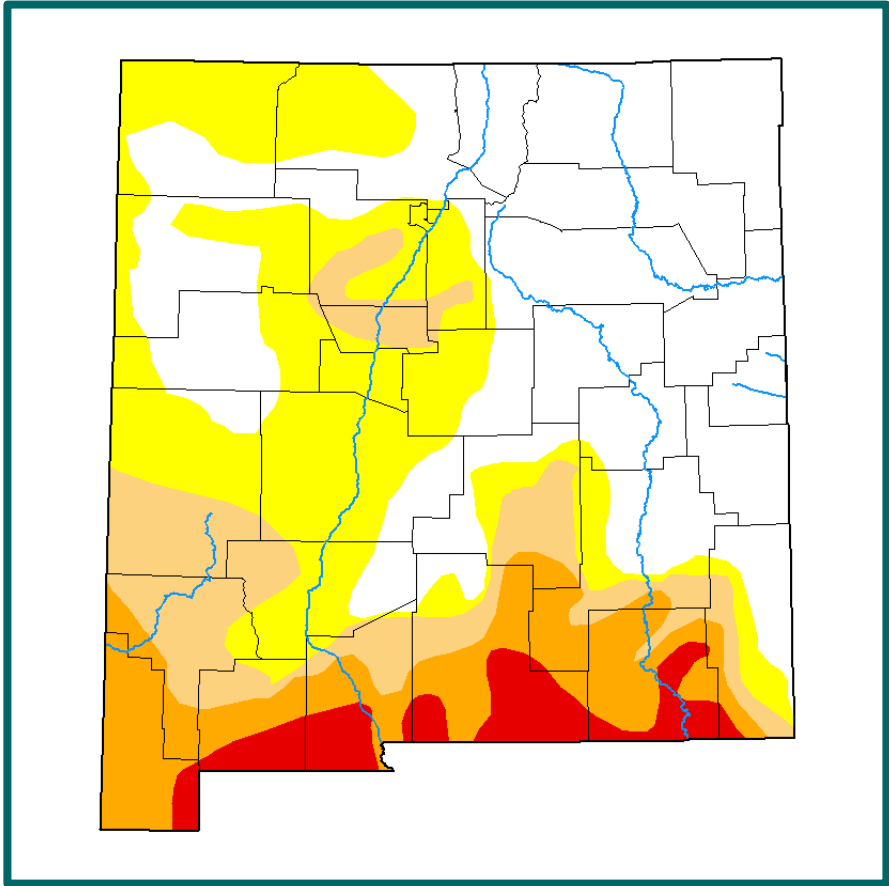


Water Resources Division

Water Report

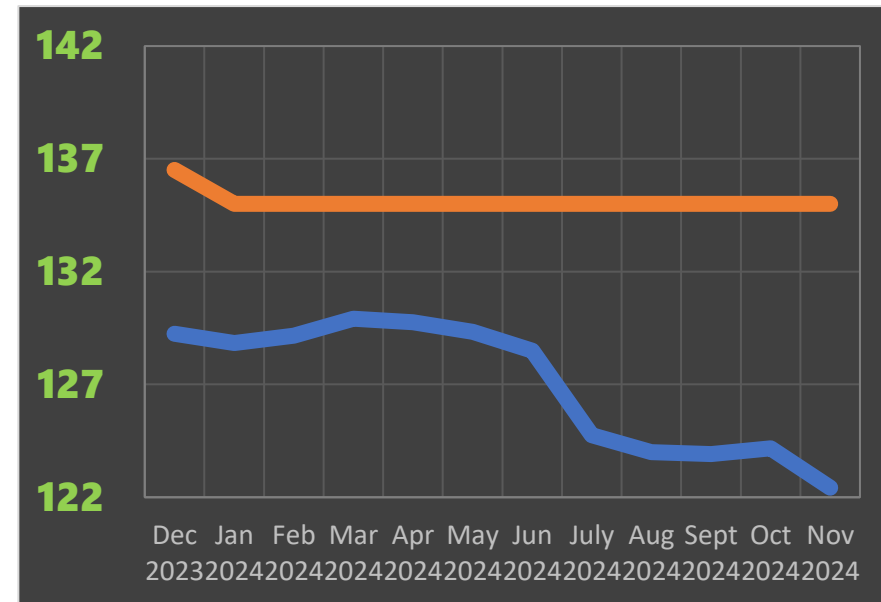
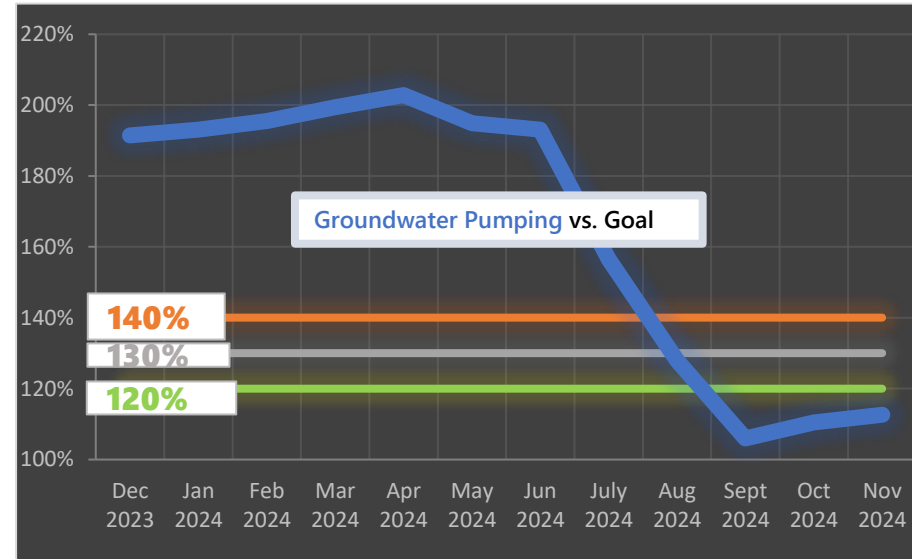
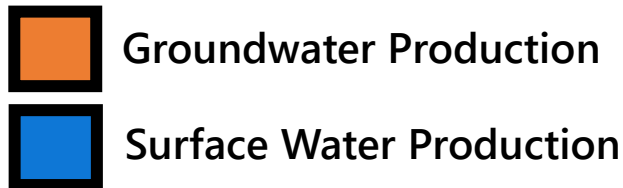
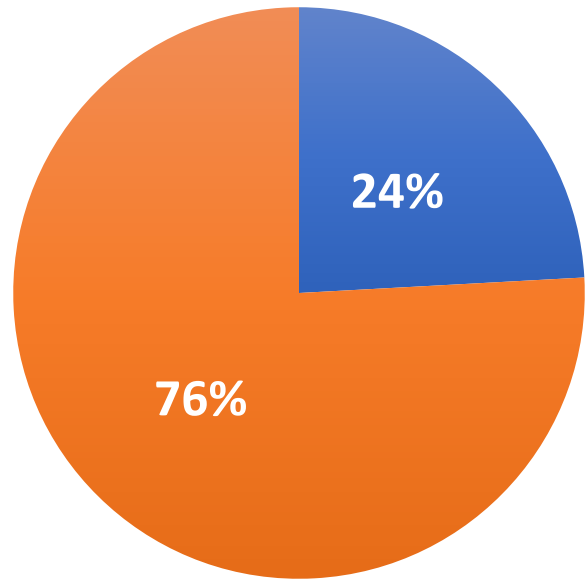
Mark Kelly, PE
Water Resources Manager

SUPPLY METRICS SNAPSHOT



Water Authority
Drought Stage: N/A

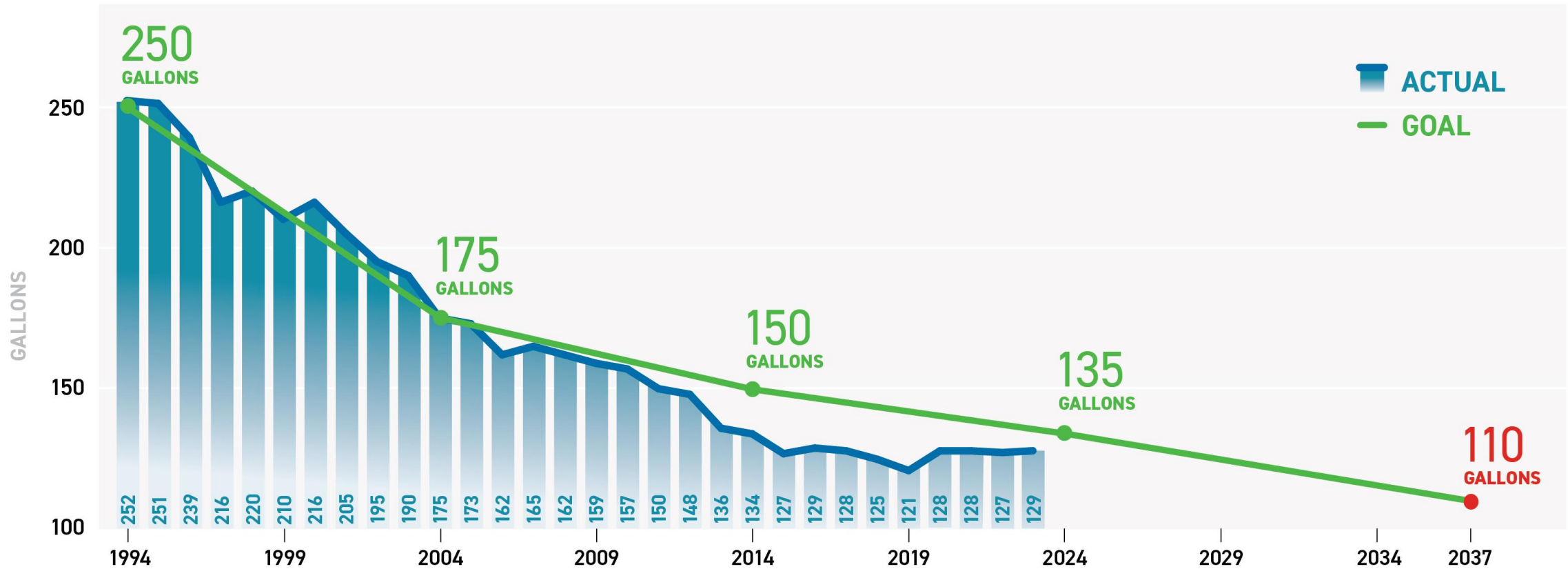
January 2025 (November Demand Data)



Long Term GPCD

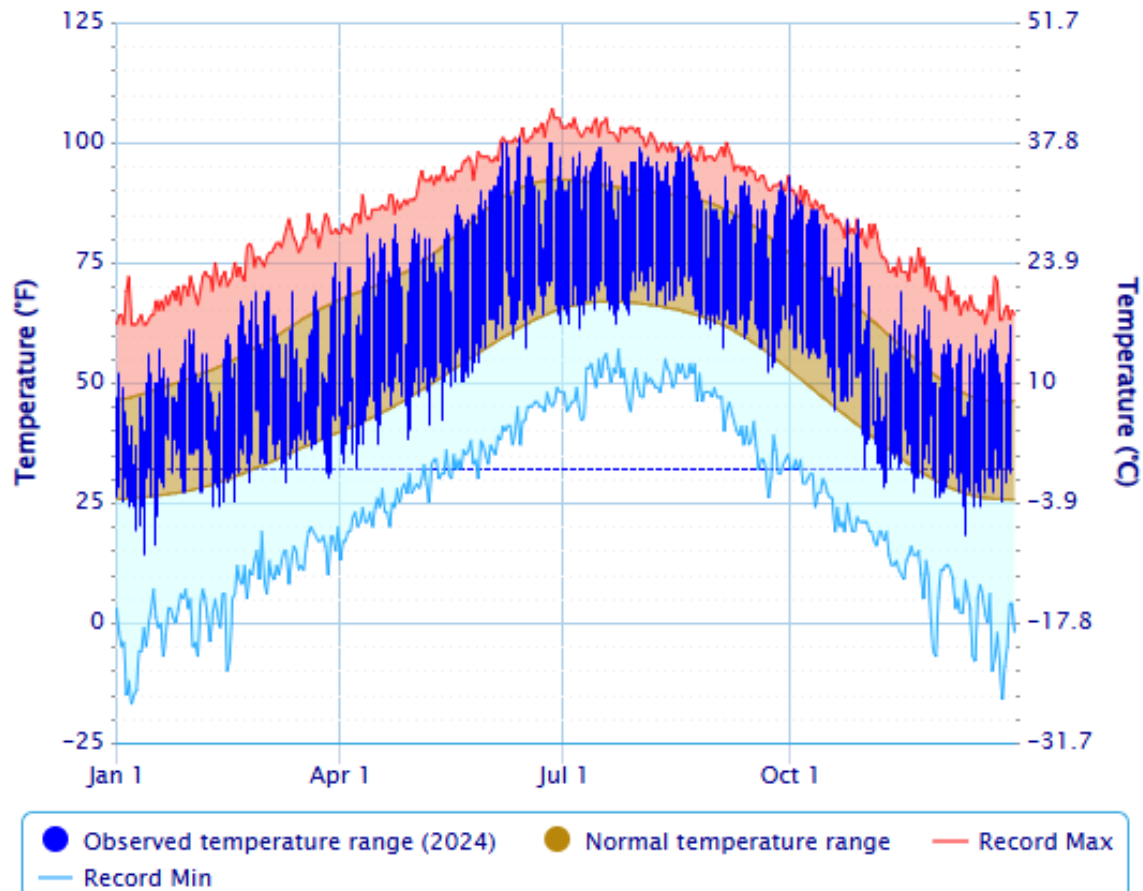


Gallons Per Capita Per Day, 1994-2037



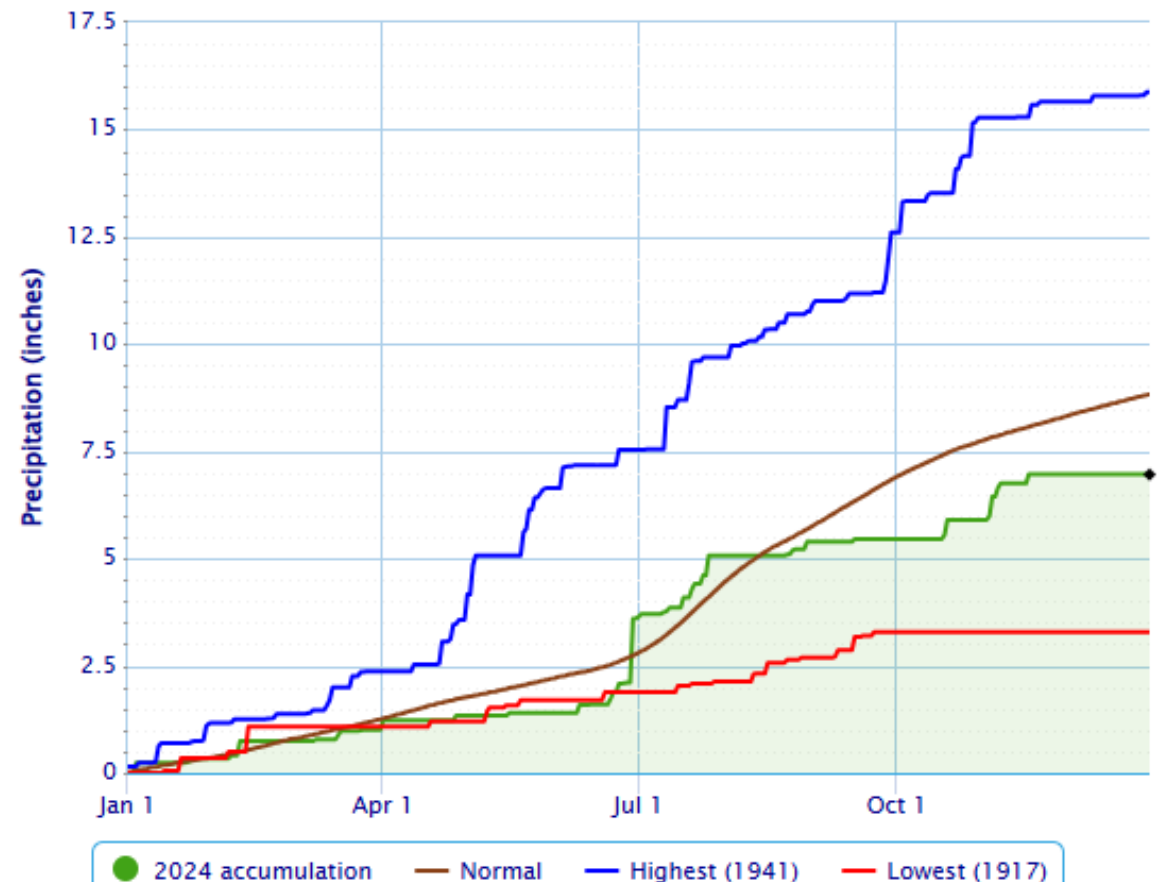
Temperature and Precipitation

Daily Temperature Data – Albuquerque Area, NM (ThreadEx)



Powered by ACIS

Accumulated Precipitation – Albuquerque Area, NM (ThreadEx)



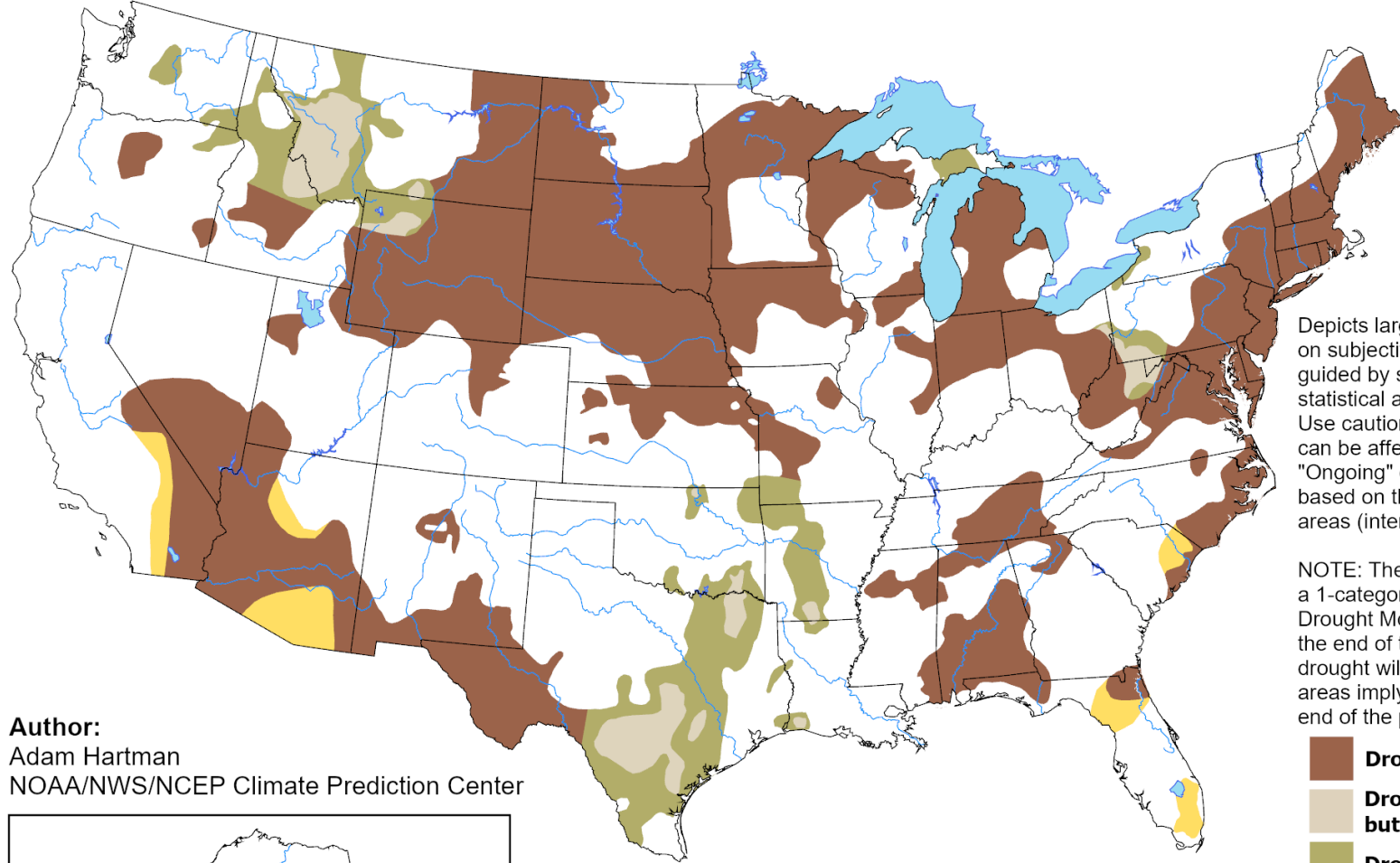
Powered by ACIS

U.S. Monthly Drought Outlook

Drought Tendency During the Valid Period

Valid for December 2024
Released November 30, 2024

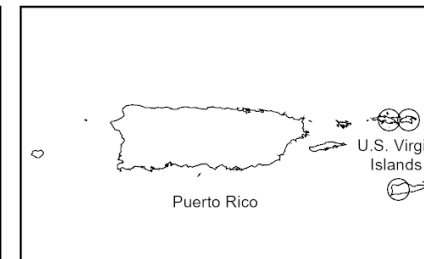
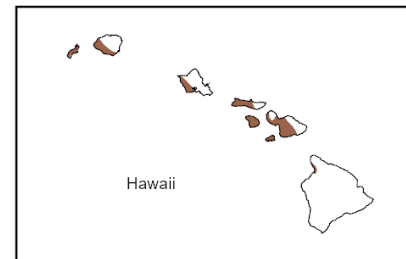
Drought Outlook








Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to D4).

NOTE: The tan areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period, although drought will remain. The green areas imply drought removal by the end of the period (D0 or none).

Author:
Adam Hartman
NOAA/NWS/NCEP Climate Prediction Center

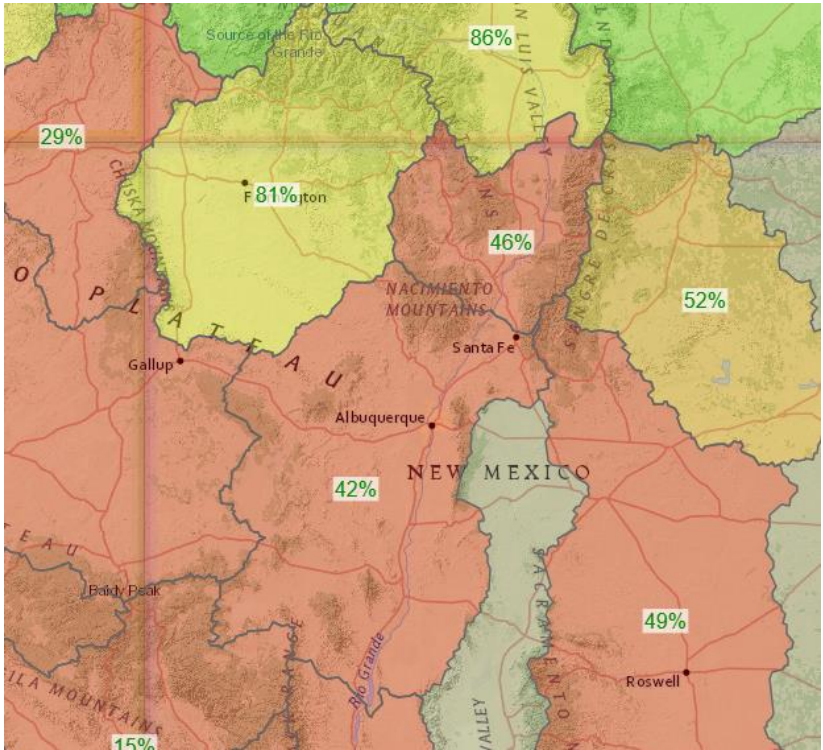


-  **Drought persists**
-  **Drought remains, but improves**
-  **Drought removal likely**
-  **Drought development likely**
-  **No drought**

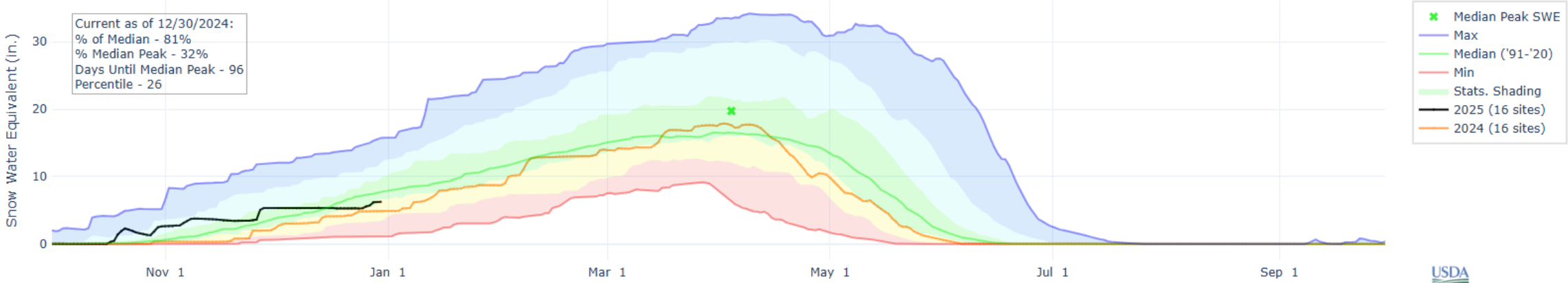


<https://go.usa.gov/3eZGd>

Snow Water Equivalent

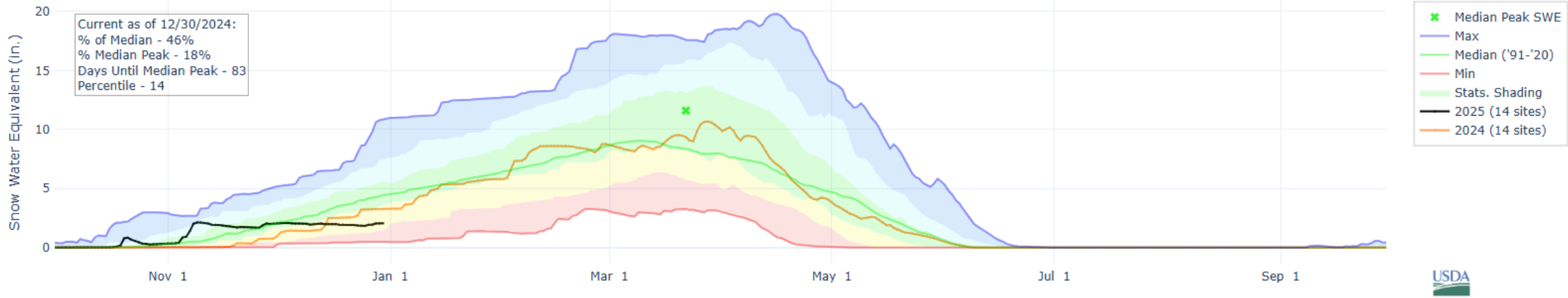


SNOW WATER EQUIVALENT IN UPPER SAN JUAN

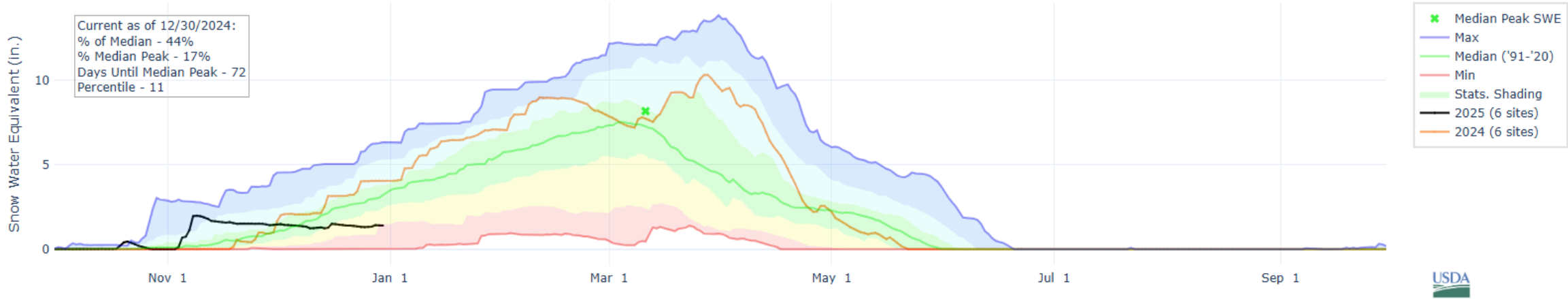


Snow Water Equivalent

SNOW WATER EQUIVALENT IN UPPER RIO GRANDE



SNOW WATER EQUIVALENT IN RIO GRANDE ELEPHANT BUTTE





Questions?

The San Juan-Chama Project Contractors Association

TCAC

January 2025



San Juan-Chama Project

- Contractor's Association



SAN JUAN-CHAMA PROJECT



DIVERSION DAM



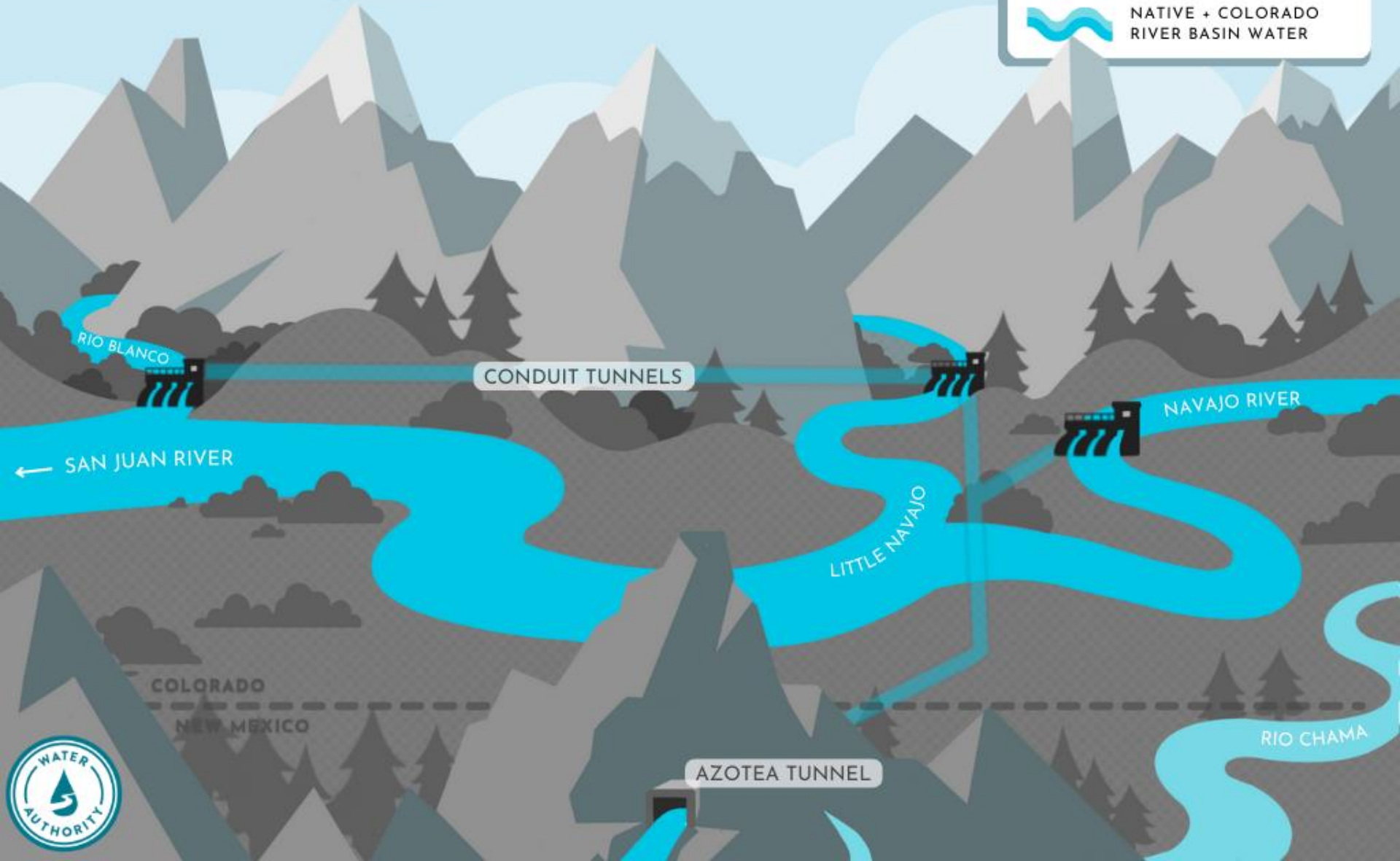
COLORADO RIVER
BASIN WATER



NATIVE NEW MEXICO
WATER



NATIVE + COLORADO
RIVER BASIN WATER



RIO BLANCO

CONDUIT TUNNELS

← SAN JUAN RIVER

NAVAJO RIVER

LITTLE NAVAJO

COLORADO

NEW MEXICO

AZOTEA TUNNEL

RIO CHAMA



96,200 ACRE- FEET
FIRM YIELD

AZOTEA
TUNNEL

WILLOW CREEK

HERON RESERVOIR

RIO CHAMA

EL VADO RESERVOIR

ABIQUIU RESERVOIR

ESPAÑOLA

RIO GRANDE



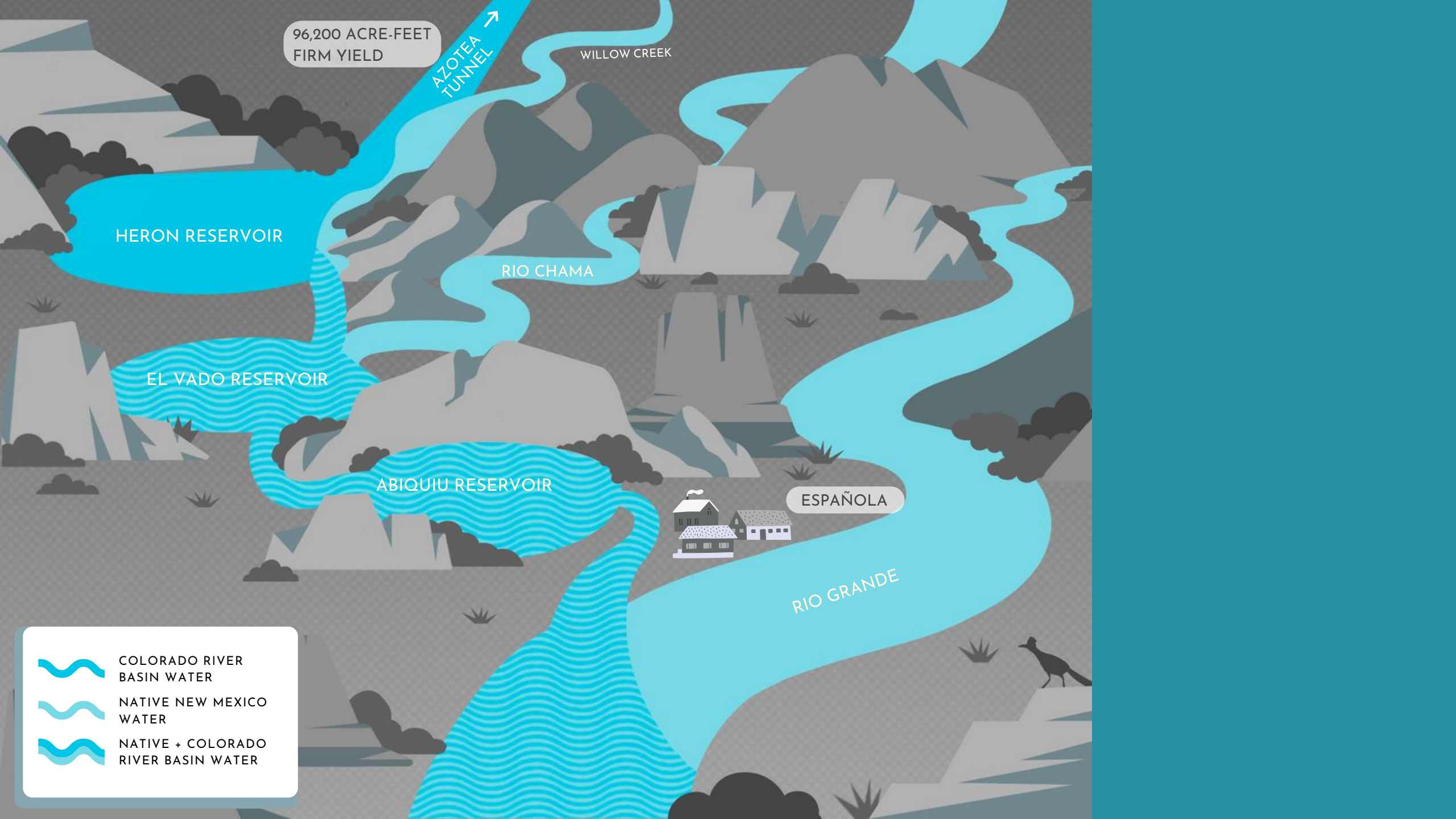
COLORADO RIVER
BASIN WATER



NATIVE NEW MEXICO
WATER






NATIVE + COLORADO
RIVER BASIN WATER



WHERE OUR WATER COMES FROM

LEGEND

-  **Colorado River Basin Water**
From tributaries of the Colorado River via the San Juan-Chama Project
-  **Combined Native/Colorado River Basin Water**
San Juan-Chama Project water conveyed through native streams/rivers
-  **Native New Mexico Water**
Naturally occurring stream flows in New Mexico
-  **Groundwater**
Pumped to surface via wells
-  **Stored Water**
Man-made reservoirs also used for recreation
-  **Diversion Facility**
For re-directing stream flows
-  **Tunnel/Channel**
Conveys water from one stream system to another

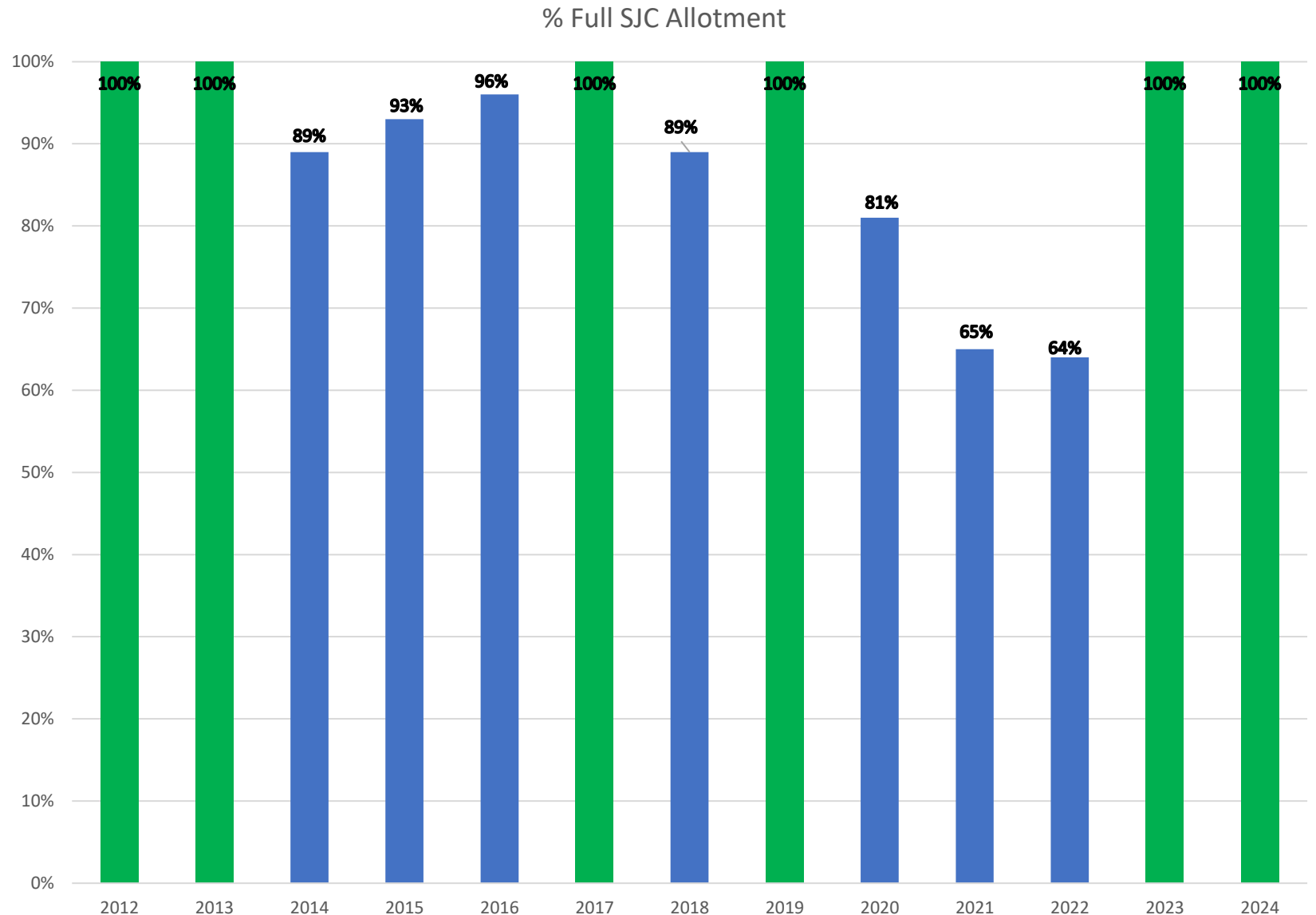




- *Water Authority*
- *Middle Rio Grande Conservancy District*
- *City of Belen*
- *Town of Bernalillo*
- *Ohkay Owingeh*
- *Pojoaque Valley Irrigation District*
- *El Prado Water and Sanitation District*
- *Village of Los Lunas*
- *City of Santa Fe*
- *Town of Taos*
- *Village of Taos Ski Valley*
- *Jicarilla Apache Nation*

San Juan-Chama Project Allocations

- SJCP has experienced shortages due to hydrology
- SJCP received an initial allocation in January 2024; 2024 forecasted allocation is pending



Accomplishments

- *Unity*
- *Engagement*
 - *Colorado River*
 - *UCRC*
- *Educational Field Trips*
 - *SJC Infrastructure*
 - *SF Watershed*
 - *SJC Watershed*
 - *San Juan Area*
- *Asset Management Plan*
- *Fire Planning*





Thank You

Colorado River Compact

Life after 2026 – how we get there and what it might look like



A Mighty River

Flows more than 1,400 miles and covers ~ 246,000 square miles.

Supplies water to over 40 million people.

Estimated economic value of \$1.4 trillion/year.





In the beginning, there were

7

Signed in 1922, the Colorado River Compact marks the first time in U.S. history that more than three states negotiated an agreement.

The compact is the cornerstone of the “Law of the River.”

Tribes were not included in the negotiations.

Scarcity, Security, and History Repeating itself

- Pre-compact river conditions meant that the seven CO River basin states were eager to secure their share.
- Major projects were in the works, including the Boulder Dam and the All-American Canal.
- June 1922 SCOTUS ruling that prior appropriation applied regardless of state lines.
- Final agreement was signed at the Palace of the Governors in Santa Fe on November 24, 1922.
- A 1944 treaty with a U.S. commitment to deliver water to Mexico





But, what did the Compact DO?

- At its most basic level:
 - 7.5 MAF to the Lower Basin (Arizona, California, and Nevada)
 - 7.5 MAF to the Upper Basin (Colorado, New Mexico, Utah, and Wyoming)
 - 1.5 MAF to Mexico (shared between Lower and Upper Basin states)16.5 MAF in total (← this is important)
- Stipulation that the Upper Basin must not deplete flow to the Lower Basin below an aggregate of 75 MAF for any 10 consecutive years, as measured at Lees Ferry
- Allows Lower Basin to consume an additional 1 MAF, under certain conditions

What's missing?

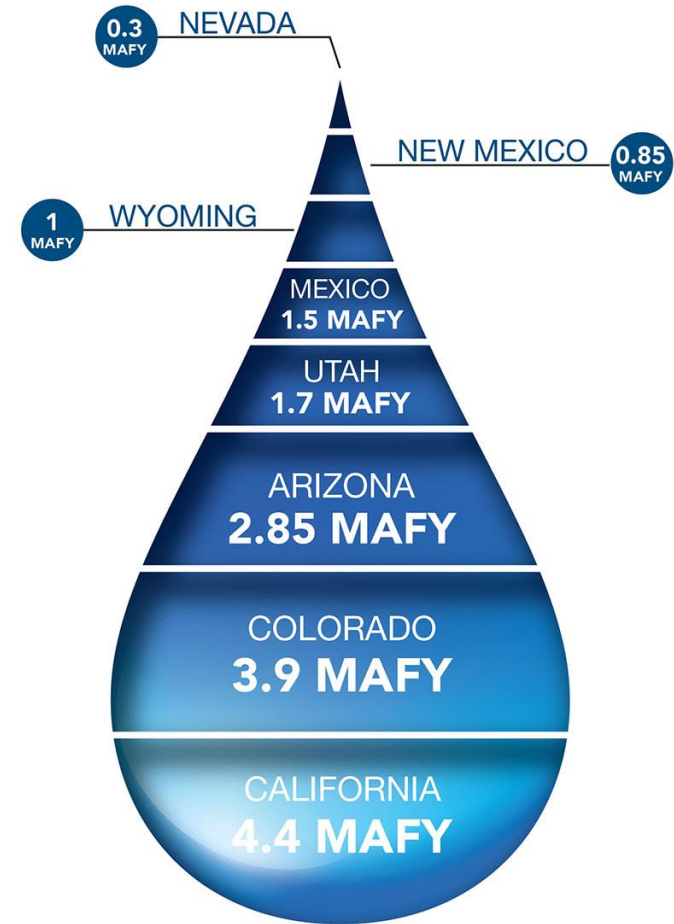
- Tribal water rights
- Evaporation and conveyance losses (system losses) are unaccounted for in the Compact
- Water used by Mexico

And...

Climate change

WHERE THE WATER GOES:

Who Shares the Colorado River?

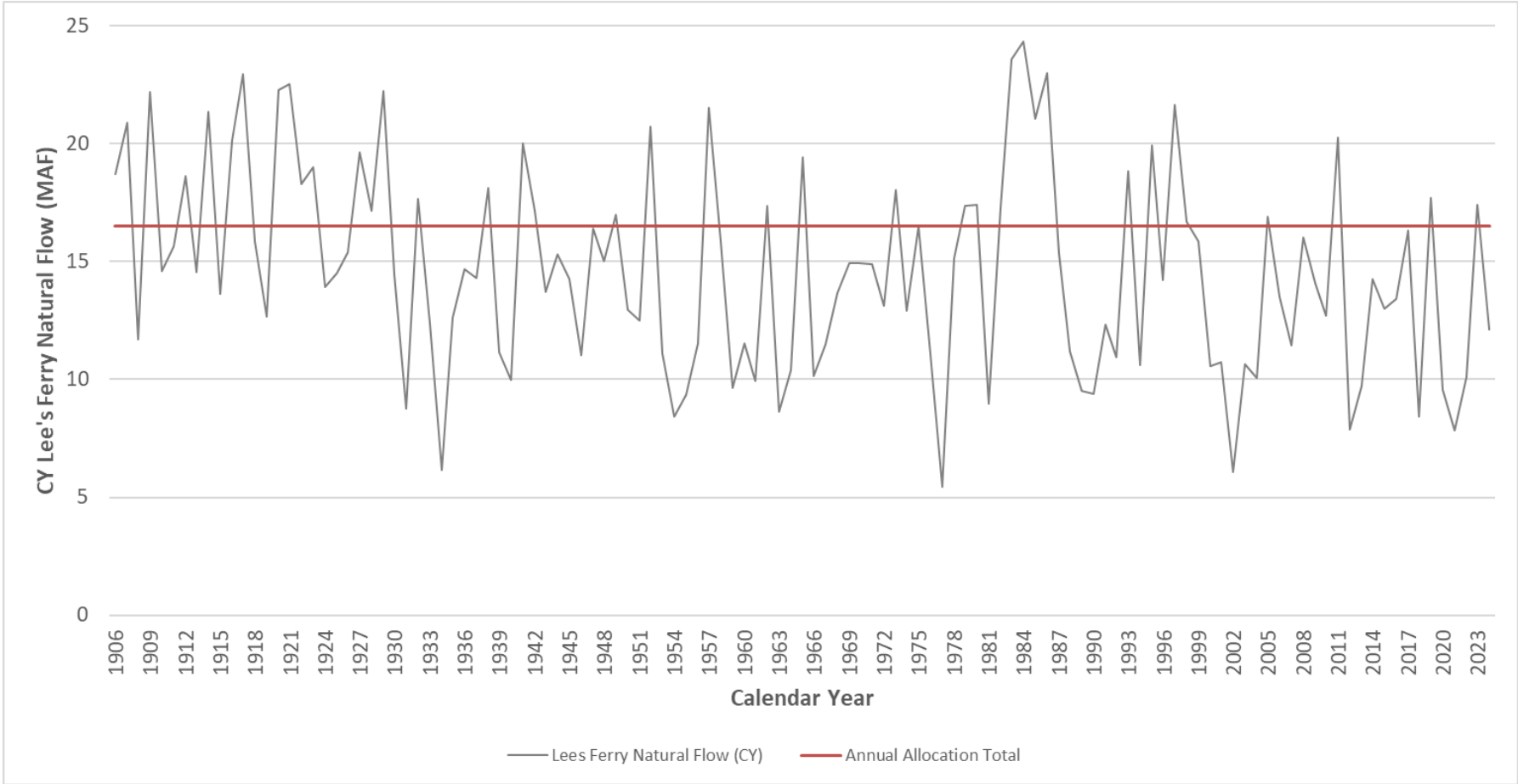


MAFY = million acre-feet per year

Where is the water going?



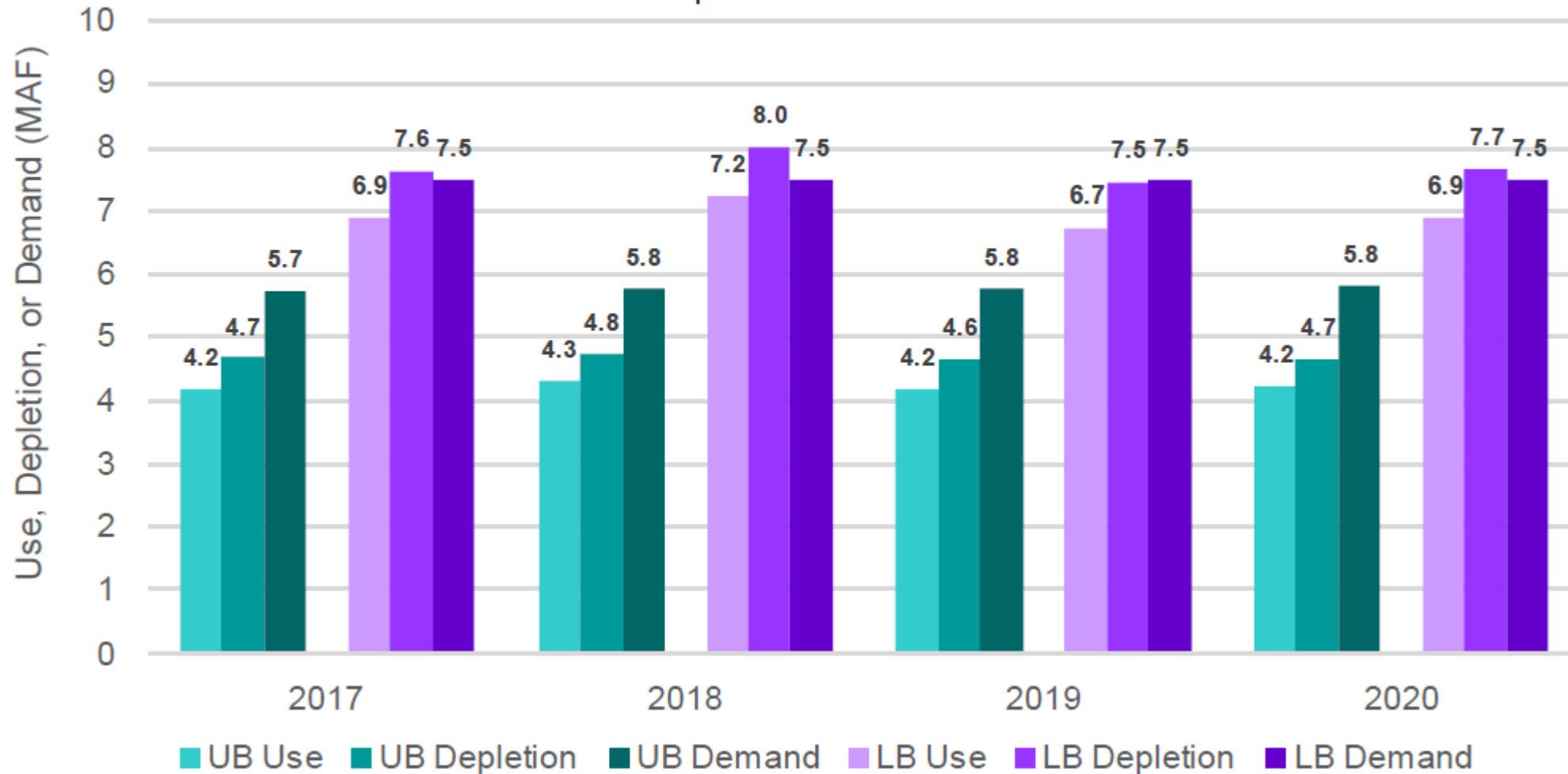
Climate Change you say?



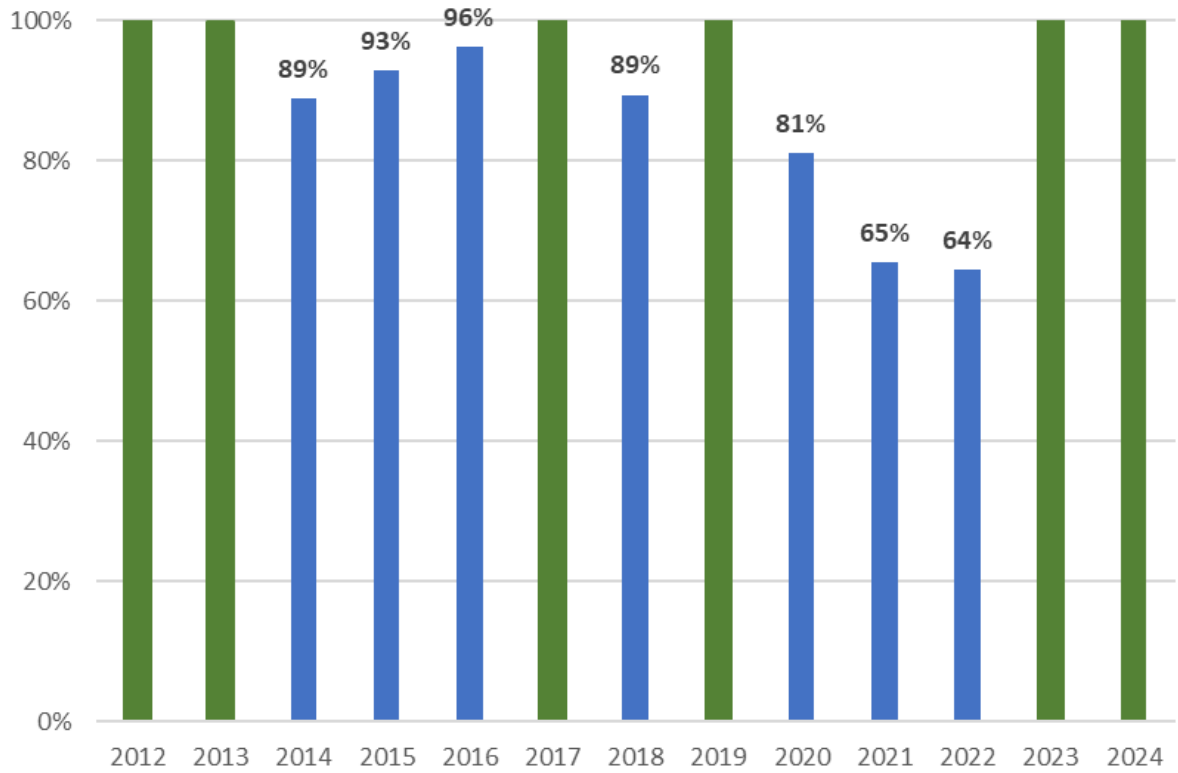
Data source: <https://www.usbr.gov/lc/region/g4000/NaturalFlow/provisional.html> (accessed 26 Dec 2024)

Historical Mainstem Use and Depletion vs. Demand

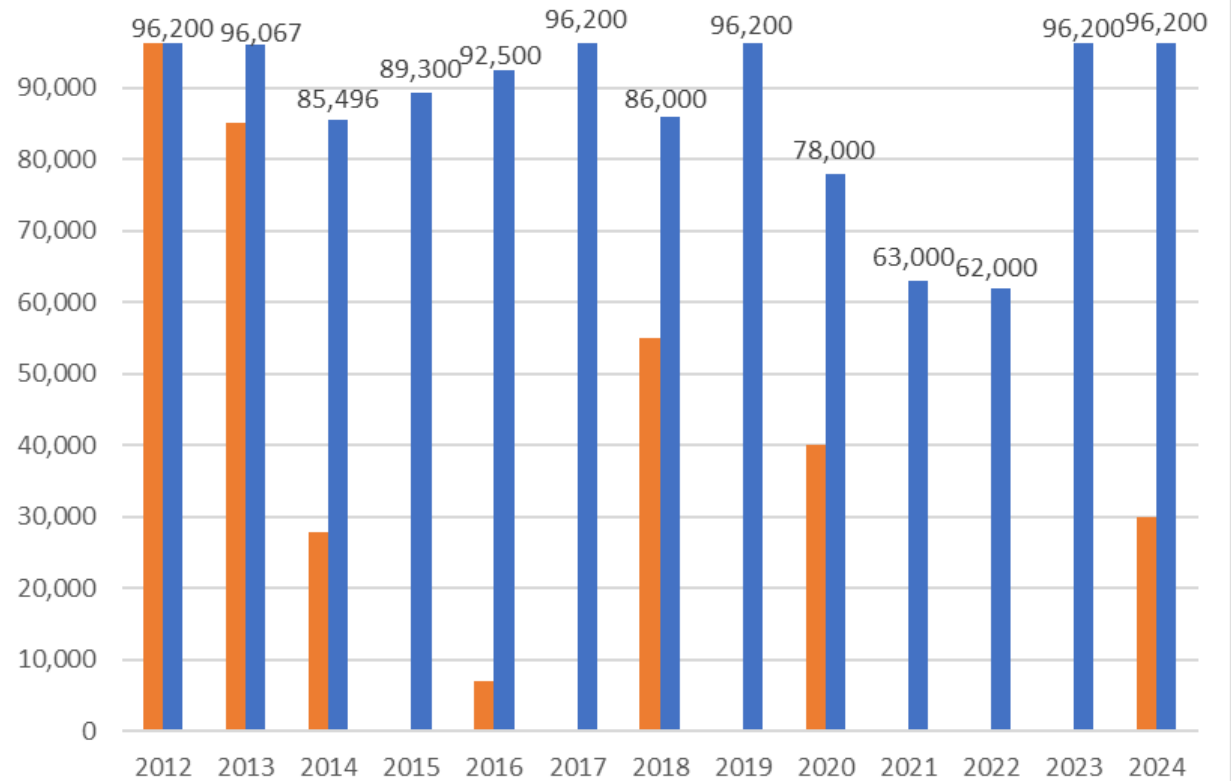
Depletion includes mainstem reservoir evaporation
Demand is Upper Basin DDS and LDS apportionment
Riparian ET not included



% of Full SJCP Allocation



SJCP Allocation (acre-feet)



Paper water meets wet water

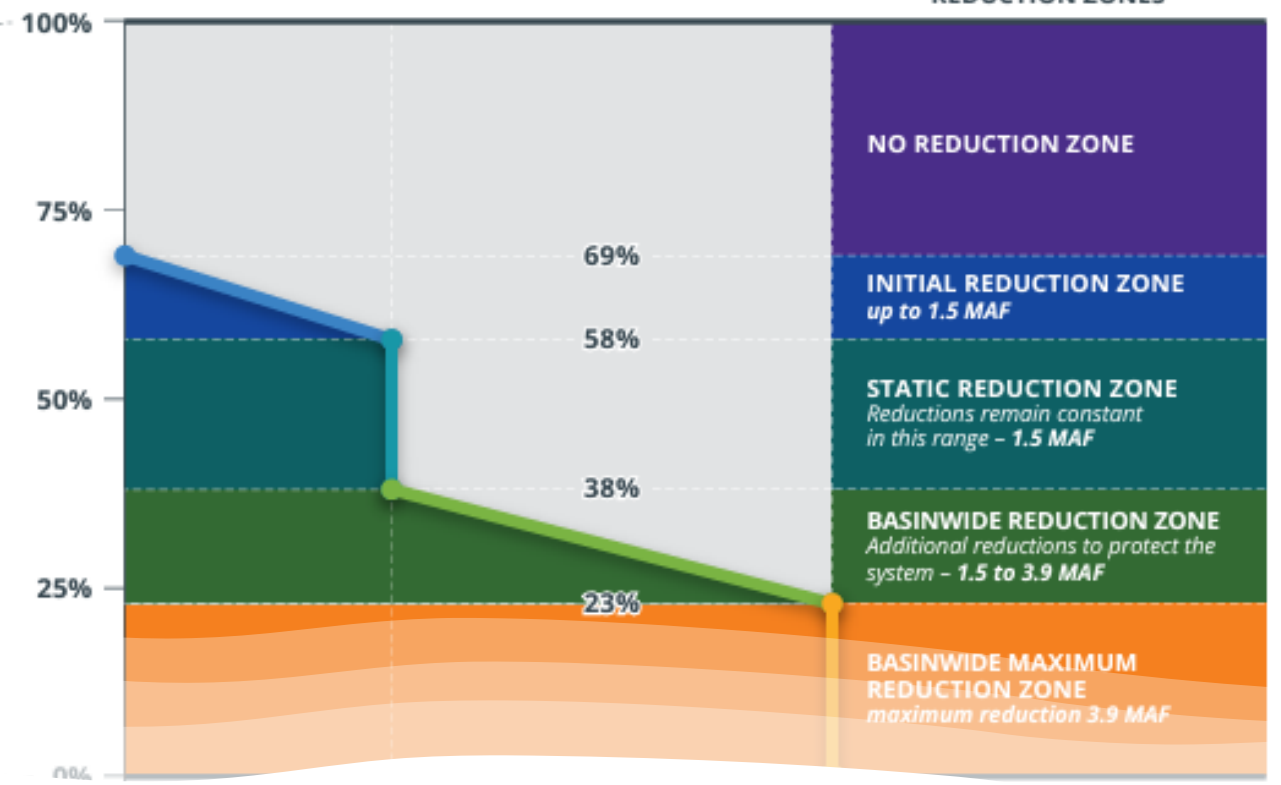
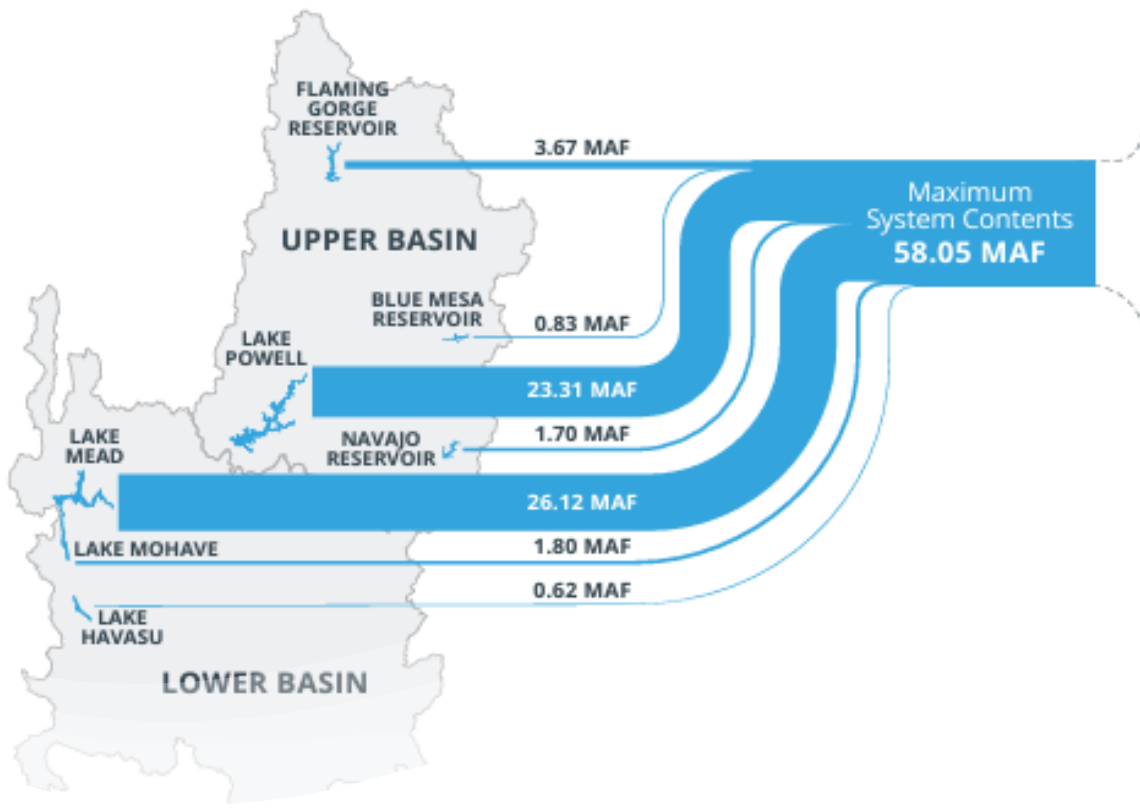
- Following significant drought and the realization that the river was over-allocated, the 2007 interim guidelines were established
- Negotiated between the 7 basin states and Bureau of Reclamation
- Coordinated releases from Lake Powell and Lake Mead
- Prescribed curtailment for the Lower Basin, based on Lake Mead elevations (7 Tier System)
- Expires in 2026



Post-2026 Operations Status: “It’s complicated”

- Concurrent efforts → 7 Basin State Negotiations AND U.S. Bureau of Reclamation/Department of Interior EIS
- Alternatives submitted to BOR for scoping of the EIS
 - Lower Basin States
 - Upper Basin States
 - Gila River Tribes
 - U.S. Fish and Wildlife Service/National Parks Service
 - NGO
 - Plus alternatives submitted by 16 tribes, an academic alternative, and more!





Source: <https://www.azwater.gov/sites/default/files/2024-05/FAQs-LowerBasinStatesAlternative-Apr2024%28v4%29.pdf> (accessed 26 Dec 2024)

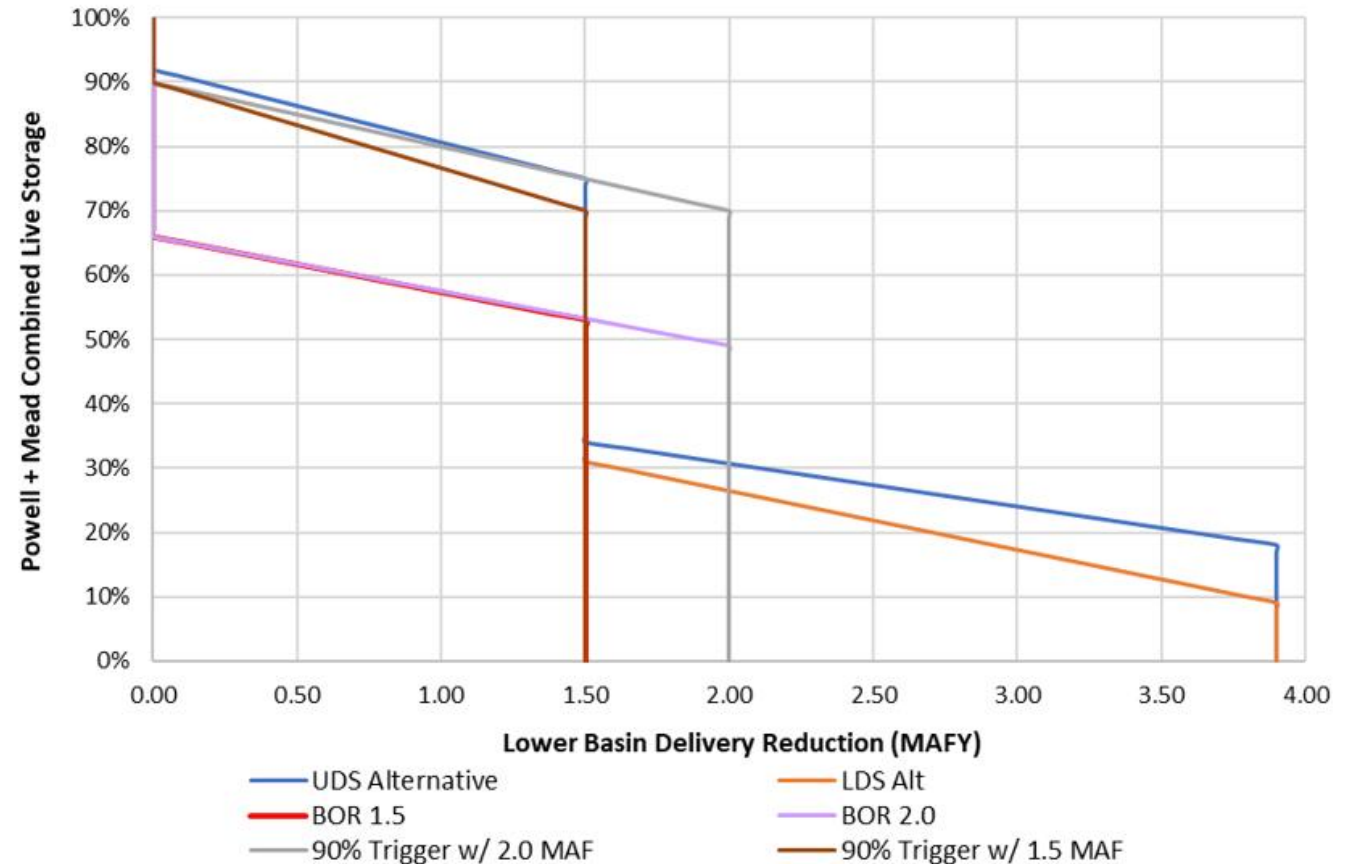
Lower Basin States Alternative

- Based on volumes in each reservoir, relative to capacity
- Includes structural deficit (evaporation and conveyance losses) of 1.5 MAF
- Upper Basin reductions in the "Basin-wide Reduction" zones

Upper Basin States Alternative and a “5-Point Plan”

- Utilizes combined storage in Lake Powell and Lake Mead to calculate triggers
- Threshold volumes are associated with critical elevation levels in Lake Powell and Lake Mead
- Includes parallel activities (e.g. conservation, CRSPA units, and acknowledgement of tribal water rights)

Reduction Explorations



Bureau of Reclamation Alternatives

- Released in December 2024 – 5 Alternatives for the EIS
 - No Action
 - Federal Authorities
 - Federal Authorities Hybrid
 - Cooperative Conservation
 - Basin Hybrid
- No preferred alternative has been selected
- Scope of alternatives meant to capture any consensus from the 7 basin states
- Does not include deliveries to Mexico



Shortage Guidelines to Reduce Deliveries from Lake Mead

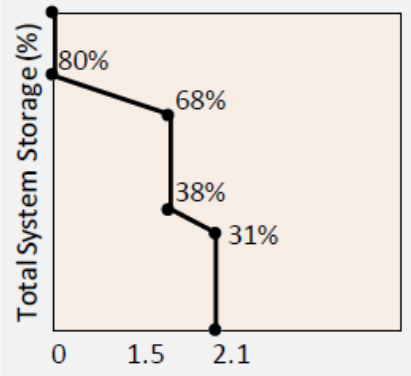
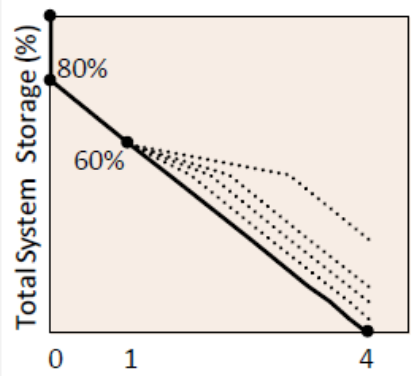
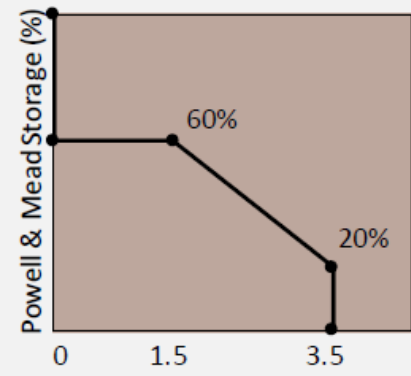
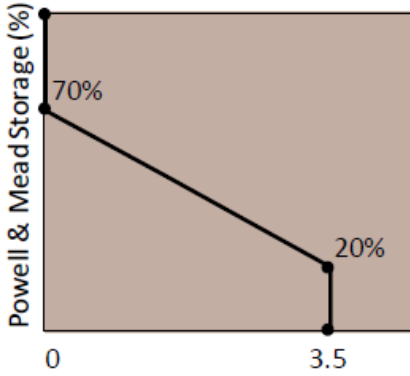
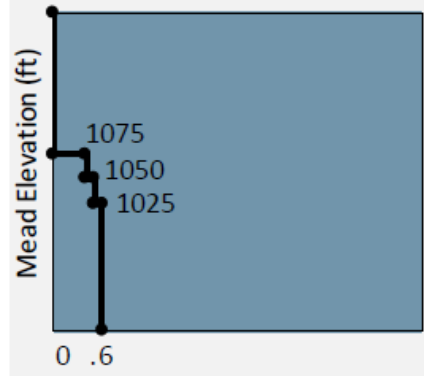


	No Action	Federal Authorities	Federal Authorities Hybrid	Cooperative Conservation	Basin Hybrid
Trigger	Mead Elevation	Powell & Mead Storage	Powell & Mead Storage	Total System Storage	Total System Storage
Start of Shortage	1,075 ft	70%	60%	80%	80%
When Shortages Equal 1.5 maf	Dead Pool	48.7%	60%	50%	38% - 68%
Max Shortage	0.6 maf	3.5 maf	3.5 maf	4 maf	2.1 maf
Distribution of Shortages	Priority	Priority	Pro-rata	Priority with state-specific distribution up to 1.5 maf	Priority and Pro-rata with state-specific distribution up to 1.5 maf (will also be analyzed without Tribal shortages)
Adjustment	None	None	None	Recent Hydrology	None

Curve

— Lower Basin Policy Reduction

..... Reduction Adjusted for Hydrology



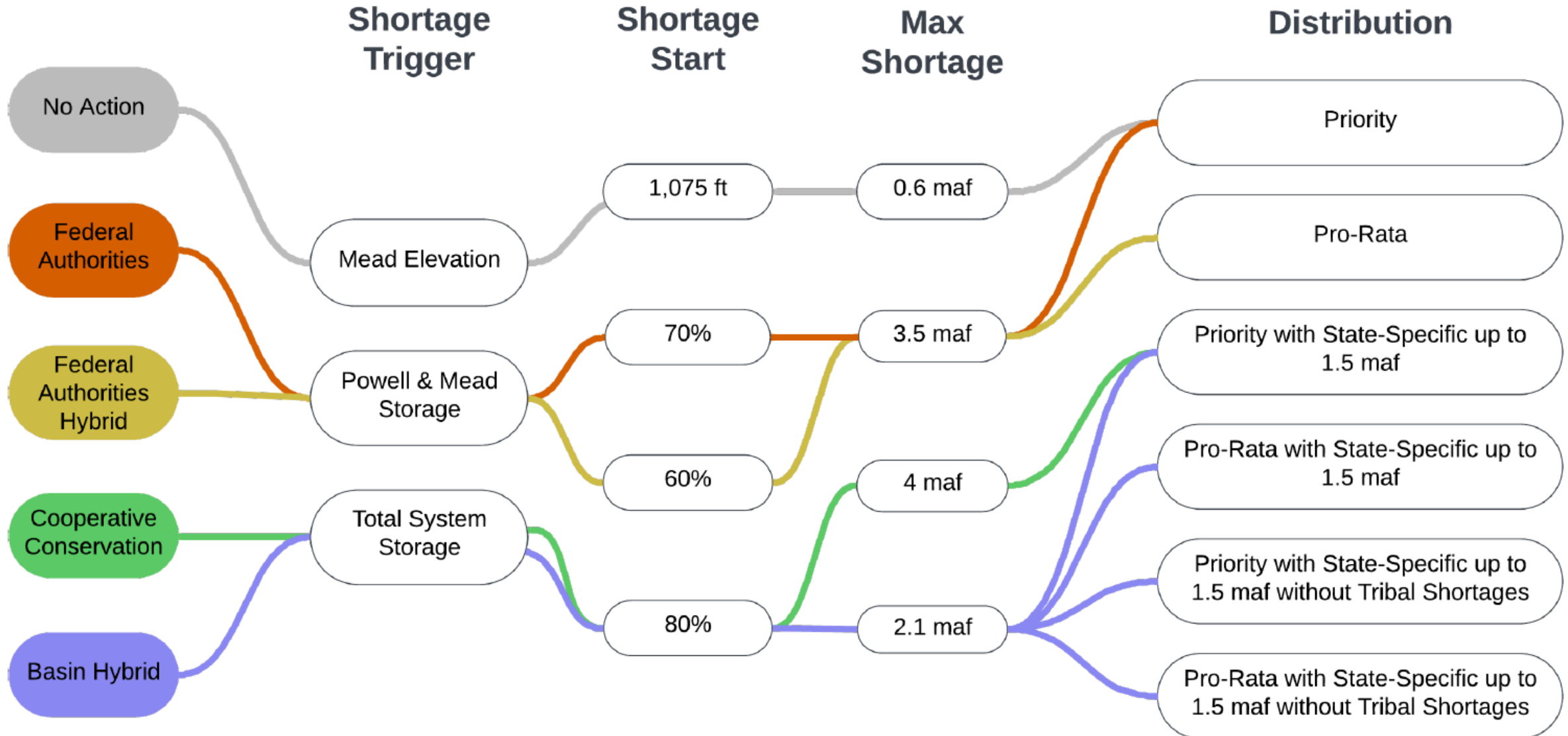
Storage & Delivery of Conserved & Non-System Water



	No Action	Federal Authorities	Federal Authorities Hybrid	Cooperative Conservation	Basin Hybrid
Location	Only delivery of existing ICS in accordance with existing agreements	Only delivery of existing ICS in accordance with existing agreements	Powell & Mead	Powell & Mead	Powell & Mead
Purpose			<ul style="list-style-type: none"> - Offsetting/managing reductions - Infrastructure protection - Mitigating resource impacts - Enhanced Tribal participation 	<ul style="list-style-type: none"> - Offsetting/managing reductions - Infrastructure protection - Mitigating resource impacts 	<ul style="list-style-type: none"> - Offsetting/managing reductions - Infrastructure protection
Size			Powell: 2 maf Mead: 5 maf	Total: 8 maf (either reservoir)	Powell: 3 maf Mead: 8 maf
Flexibilities			Enhanced: transactions within each basin, including interstate and creation of Federal pools	Maximum: transactions within and across basins, including interstate and inter-basin	Expanded: transactions within each basin
Operational Neutrality			Limited: Powell only for determination of Lower Basin shortages	Yes	Yes
Tribal Access			Explicit accounting of unused Tribal water	<ul style="list-style-type: none"> - Equal treatment of all Tribal and non-Tribal entities - Explicit accounting of unused Tribal water 	Equal treatment of all Tribal and non-Tribal entities



Lower Basin Shortage Guidelines



Stalemate over Colorado River flows into Las Vegas

Elias: Newsom hasn't let California get bullied

by Thomas D. Elias | December 24, 2024 | 128

Water negotiators spar as time runs out to stabilize Colorado River

Federal Colorado River conservation program lapses, faces uncertain future

Feds want states to take the reins of the Colorado River crisis, but will force a solution if one isn't found

Colorado River basins could face tipping point, drought study warns

What's next?

A scenic view of a river flowing through a canyon with layered rock formations under a clear blue sky. The word "Questions?" is overlaid in large white text.

Questions?