



September 28, 2023

NOTICE OF REGULAR MEETING OF THE COLORADO RIVER BOARD OF CALIFORNIA

Imperial Irrigation District (IID) is hosting a dedication ceremony for the Lloyd Allen Water Conservation Operational Reservoir prior to the meeting. RSVP no later than October 6 to Susie Carrillo at scarrillo@iid.com or 760-482-3372.

Dedication Ceremony

Date: Wednesday, October 11, 2023
Time: **9:30 AM**
Place: E Lateral Gate 24 along Young
Road
Calipatria, CA 92233

NOTICE IS HEREBY GIVEN pursuant to the call of the Chairman, J.B. Hamby, by the undersigned Executive Director of the Colorado River Board of California that a regular meeting of the members of the board is to be held as follows:

Board Meeting

Date: Wednesday, October 11, 2023
Time: **1:00 PM**
Place: IID Condit Auditorium
1285 Broadway Avenue
El Centro, CA 92243

The Colorado River Board of California welcomes any comments from members of the public pertaining to items included on this agenda and related topics. Members of the public may provide comments in the following ways: (1) Oral comments can be provided at the beginning of each board meeting; and (2) Public comments may be submitted by electronic mail, addressed to the board's Chairman, J.B. Hamby, at crb@crb.ca.gov and will be accepted up until 12:00 p.m. on October 10, 2023. Please note, written submissions will be read aloud at the public comment period to the extent they fit within the five-minute time limit.



If accommodations for individuals with disabilities are required, such persons should provide a request at least 24 hours in advance of the meeting by electronic mail to board staff at crb@crb.ca.gov.

Requests for additional information may be directed to: Mr. Christopher S. Harris, Executive Director, Colorado River Board of California, 770 Fairmont Avenue, Suite 100, Glendale, CA 91203-1068. A copy of this Notice and Agenda may be found on the Colorado River Board's web page at www.crb.ca.gov.

A copy of the meeting agenda, showing the matters to be considered and transacted, is attached.



DEDICATION CEREMONY

Wednesday, October 11, 2023 – 9:30 AM

A dedication ceremony for the Lloyd Allen Water Conservation Operational Reservoir will be hosted by IID.

REGULAR MEETING AGENDA

Wednesday, October 11, 2023 — 1:00 PM

At the discretion of the board, all items appearing on this agenda, whether or not expressly listed for action, may be deliberated upon and may be subject to action by the board. Items may not necessarily be taken up in the order shown.

CALL TO ORDER

PUBLIC COMMENTS (Limited to 5 minutes.)

WELCOME FROM IMPERIAL IRRIGATION DISTRICT

REPORTS

1. Local and State Water Supply and Operations Reports
2. Colorado River Basin Water Supply and Operations Reports
3. Colorado River Basin Programs Staff Reports
4. Member Agency and Public Member Reports
5. Executive Director's Report
6. Chairman's Report

EXECUTIVE SESSION¹

¹ An Executive Session may be held by the Board pursuant to provisions of Article 9 (commencing with Section 11120) of Chapter 1 of Part 1 of Division 3 of Title 2 of the Government Code and Sections 12516 and 12519 of the Water Code to discuss matters concerning interstate claims to the use of Colorado River System waters in judicial proceedings, administrative proceedings, and/or negotiations with representatives from the other Basin states or federal government.



OTHER BUSINESS

FUTURE AGENDA ITEMS & ANNOUNCEMENTS

ADJOURNMENT

Next Scheduled Board Meeting

Date:	Wednesday, November 15, 2023
Time:	TBD
Place:	Winterhaven, CA

10/2/2023

LOWER COLORADO WATER SUPPLY REPORT
 River Operations
 Bureau of Reclamation

Questions: BCOOWaterops@usbr.gov

(702) 293-8373

<http://www.usbr.gov/lc/region/g4000/weekly.pdf>

	PERCENT	Content 1000 ac-ft (kaf)	Elev. (Feet above mean sea level)	7-Day Release (CFS)
CURRENT STORAGE	FULL			
LAKE POWELL	38%	8,788	3,573.55	6,800
* LAKE MEAD	34%	8,871	1,065.83	8,900
LAKE MOHAVE	87%	1,580	638.58	11,000
LAKE HAVASU	94%	582	448.12	7,900
TOTAL SYSTEM CONTENTS **	43%	25,260		
As of 10/1/2023				
SYSTEM CONTENT LAST YEAR	33%	19,548		
*Percent based on capacity of 26,120 kaf or elevation 1,219.6 feet.				
**Total System Contents includes Upper & Lower Colorado River Reservoirs, less Lake Mead exclusive flood control space.				
Salt/Verde System	85%	1,944		
Painted Rock Dam	0%	0	530.00	0
Alamo Dam	14%	143	1,125.99	20
Forecasted Water Use for Calendar Year 2023 (as of 10/2/2023) (values in kaf)				
NEVADA			190	
SOUTHERN NEVADA WATER SYSTEM				183
OTHERS				8
CALIFORNIA			3,712	
METROPOLITAN WATER DISTRICT OF CALIFORNIA				654
IRRIGATION DISTRICTS				3,042
OTHERS				16
ARIZONA			1,925	
CENTRAL ARIZONA PROJECT				837
OTHERS				1,087
TOTAL LOWER BASIN USE				5,827
DELIVERY TO MEXICO - 2023 (Mexico Scheduled Delivery + Preliminary Yearly Excess ¹)				1,445
OTHER SIGNIFICANT INFORMATION				
UNREGULATED INFLOW INTO LAKE POWELL - OCTOBER FINAL FORECAST DATED 10/2/2023				
		MILLION ACRE-FEET	% of Normal	
PRELIMINARY OBSERVED WATER YEAR 2023		13.421	140%	
OBSERVED APRIL-JULY 2023		10.619	166%	
SEPTEMBER OBSERVED INFLOW		0.224	65%	
OCTOBER INFLOW FORECAST		0.400	88%	
		Upper Colorado Basin	Salt/Verde Basin	
WATER YEAR 2024 PRECIP TO DATE ²		NA% (0.19")	NA% (0.03")	
CURRENT BASIN SNOWPACK		NA% (NA)	NA% (NA)	

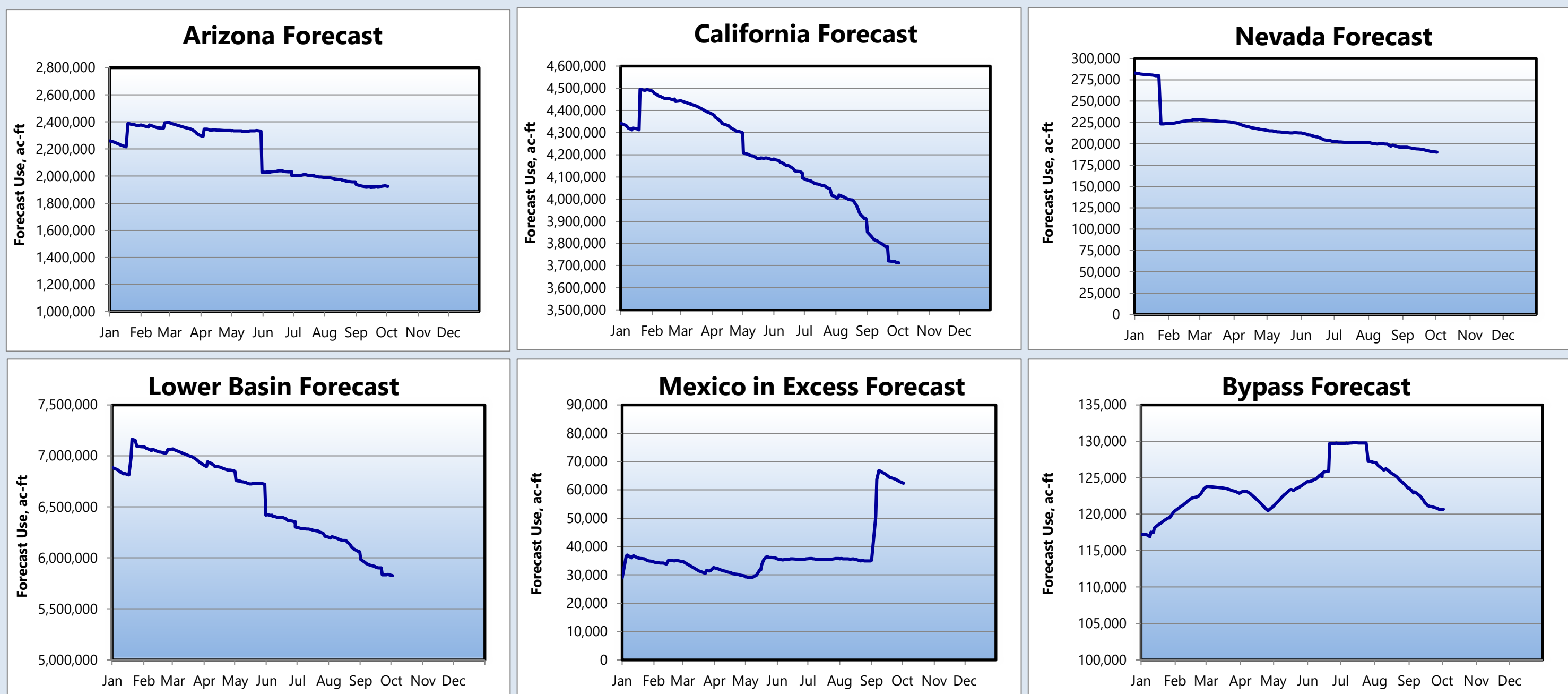
¹Delivery to Mexico forecasted yearly excess calculated using year-to-date observed and projected excess.

²Precipitation values may vary significantly from week-to-week this early in the water year.

ARIZONA, CALIFORNIA, NEVADA, MEXICO
FORECAST OF END OF YEAR CONSUMPTIVE USE
FORECAST BASED ON USE TO DATE AND APPROVED ANNUAL WATER ORDERS ¹
(ACRE-FEET)

WATER USE SUMMARY	Use To Date CY 2023	Forecast Use CY 2023	Approved Use ² CY 2023	Excess to Approval CY 2023
Arizona	1,569,040	1,924,572	1,957,998	(33,426)
California	2,966,310	3,712,159	3,856,455	(144,296)
Nevada	160,902	190,268	190,268	0
States Total ³	4,696,252	5,826,999	6,004,721	(177,722)
Total Deliveries to Mexico ⁴	1,148,004	1,382,698	1,382,698	
Creation of Mexico's Recoverable Water Savings ⁵	3,062	30,000	30,000	
Creation of Mexico's Water Reserve ⁶	11,337	17,302	17,302	
Total to Mexico in Satisfaction of Treaty Requirements ⁷	1,162,403	1,430,000	1,430,000	
To Mexico in Excess of Treaty ⁸	54,413	62,406	28,963	
Water Bypassed Pursuant to IBWC Minute 242 ⁹	92,430	120,669	117,192	
Total Lower Basin & Mexico ¹⁰	5,991,099	7,392,772	7,533,574	

¹ Incorporates 80 daily reporting stations which may be revised after provisional data reports are distributed by the USGS. Use to date has been updated through July for users reporting monthly and estimated for users reporting annually.
² These values reflect adjusted apportionments. See Adjusted Apportionment calculation on each state page.
³ Includes unmeasured returns based on estimated consumptive use/diversion ratios by user from studies provided by Arizona Department of Water Resources, Colorado River Board of California, and Reclamation.
⁴ Includes scheduled deliveries to Mexico at the Northerly International Boundary, Southerly International Boundary, Limitrophe, and Diversion Channel Discharge; and diversions at Parker Dam for Emergency Delivery to Tijuana. Volume shown does not include Creation of Mexico's Water Reserve or Creation of Mexico's Recoverable Water Savings.
⁵ Water deferred by Mexico pursuant to Section IV of IBWC Minute 323 and the *Joint Report of the Principal Engineers with the Implementing Details of the Binational Water Scarcity Contingency Plan in the Colorado River Basin* dated July 11, 2019. (Mexico's required Binational Water Scarcity Contingency Plan Contribution).
⁶ Water deferred by Mexico pursuant to Section V of IBWC Minute 323.
⁷ In accordance with Section XI.G.2.D.1.b of the 2007 Interim Guidelines, a Tier 2 Shortage Condition will govern the operation of Lake Mead and the lower Colorado River in 2023. In accordance with Section III.A of Minute 323, Mexico's scheduled deliveries incorporate the required reduction of 70,000 AF from its 1.5 million AF Colorado River water allotment. "Total to Mexico in Satisfaction of Treaty Requirements" adds in creation of Mexico's Recoverable Water Savings and Mexico's Water Reserve.
⁸ "To Mexico in Excess of Treaty" forecast is based on the 5-year average for the period 2017-2021.
⁹ "Water Bypassed Pursuant to IBWC Minute 242" forecast is based on the average for the period 1990-2021.
¹⁰ Includes States Total, Total Deliveries to Mexico, To Mexico in Excess of Treaty, and Water Bypassed Pursuant IBWC Minute 242.



Graph notes: January 1 forecast use is scheduled use in accordance with the Annual Operating Plan's state entitlements, available unused entitlements, and over-run paybacks. A downward sloping line indicates use at a lower rate than scheduled, upward sloping is above schedule, and a flat line indicates a use rate equal to schedule. Lower priority users such as CAP, MWD, and Robt.B.Griffith may adjust use rates to meet state entitlements as higher priority use deviates from schedule. **Abrupt changes in the forecast use line may be due to a schedule change or monthly updating of provisional realtime diversions.**



LOWER COLORADO BASIN REGION
CY 2023

ARIZONA WATER USERS

Forecast end of year diversion/consumptive use

Forecast based on use to date and approved annual water orders

[Arizona Schedules and Approvals](#)

NOTE:
 • Diversions and uses that are pending approval are noted in *red italics*.
 • Water users with a consumptive use entitlement - **Excess to Estimated Use** column indicates overrun/underrun of entitlement. Dash in this column indicates water user has a diversion entitlement.
 • Water user with a diversion entitlement - **Excess to Approved Diversion** column indicates overrun/underrun of entitlement. Dash in this column indicates water user has a consumptive use entitlement.

WATER USER	Use To Date CY 2023	Forecast Use CY 2023	Estimated Use CY 2023	Excess to Estimated Use CY 2023	Diversion To Date CY 2023	Forecast Diversion CY 2023	Approved Diversion CY 2023	Excess to Approved Diversion CY 2023
TV Marble Canyon, AZ LLC	8	10	10	---	13	15	15	0
Lake Mead NRA, AZ - Diversions from Lake Mead	48	61	68	---	48	61	68	-7
Lake Mead NRA, AZ - Diversions from Lake Mohave	195	247	248	---	195	247	248	-1
McAlister Family Trust	6	7	7	---	8	10	10	0
Bureau of Reclamation - Davis Dam Project	2	2	2	---	8	10	10	0
Bullhead City	5,628	7,873	8,699	---	8,583	12,124	13,730	-1,606
Mohave Water Conservation District	609	809	809	---	908	1,206	1,206	0
Mohave Valley I.D.D. ¹	7,683	9,819	11,662	---	14,227	18,182	21,597	-3,415
Fort Mojave Indian Reservation, AZ	29,762	36,948	44,280	---	55,115	68,422	82,000	-13,578
Golden Shores Water Conservation District	239	287	287	---	360	432	432	0
Havasu National Wildlife Refuge	1,788	2,177	3,564	---	14,908	19,473	41,835	-22,362
EPCOR Water Arizona, Inc. - CSA No. 1	437	588	589	---	673	907	907	0
Crystal Beach Water Conservation District	61	73	73	---	93	112	112	0
Lake Havasu City	6,476	8,711	9,052	---	10,445	14,050	14,600	-550
Arizona State Parks (Windsor Beach)	9	11	11	---	14	17	17	0
Central Arizona Water Conservation District ²	673,942	837,319		---	673,942	837,319		--
Hillcrest Water Company	18	21	21	---	27	32	32	0
Springs Del Sol Domestic Water Improvement District	2	2	2	---	3	3	3	0
Frontier Communications West Coast	1	1	1	---	1	1	1	0
EPCOR Water Arizona, Inc. - CSA No. 2 (formerly Brooke Water, LLC)	229	303	327	---	341	452	489	-37
Town of Parker	212	291	418	---	529	726	912	-186
Colorado River Indian Reservation, AZ	296,150	332,966	360,641	---	440,964	544,024	662,402	-118,378
GM Gabrych Family	0	0	0	---	0	0	0	0
Ehrenberg Improvement District	224	286	303	---	339	426	426	0
B&F Investment	7	9	8	---	8	10	11	-1
North Baja Pipeline	167	200	200	---	257	308	308	0
Arizona State Land Department - Domestic	29	38	40	---	45	58	61	-3
Cibola Valley I.D.D.	2,783	3,616	3,616	---	3,890	5,055	5,055	0
Red River Land Co.	239	250	214	---	335	350	300	50
Hopi Tribe	839	1,210	3,061	---	1,173	1,691	4,278	-2,587
GSC Farms, LLC	8	20	28	---	10	25	35	-10
Arizona Game & Fish	1,911	2,029	2,028	---	2,673	2,838	2,838	0
Cibola Island	588	705	705	---	822	986	986	0
Cibola National Wildlife Refuge	7,182	8,756	14,264	-5,508	11,585	14,122	23,005	-8,883
Western Water, LLC	142	207	379	---	199	289	530	-241
Cibola Sportsmans Club	143	164	154	---	199	229	216	13
Bishop Family Trust	216	260	300	---	301	364	420	-56
Cathcarts	4	10	10	---	5	13	13	0
Imperial National Wildlife Refuge	2,626	3,552	3,799	-247	4,236	5,729	6,128	-399
BLM - Leased by L. Pratt	48	58	58	---	74	89	89	0
BLM Permittees (Parker Dam to Imperial Dam)	1,060	1,271	1,271	0	1,631	1,956	1,956	--
Martinez Lake Cabin Sites	4	7	7	---	8	11	11	0
Fisher's Landing Water and Sewer, LLC	6	7	7	---	9	11	11	0
Shepard Water Company	15	18	18	---	23	28	28	0
U.S. Army Yuma Proving Grounds	349	433	486	---	349	433	486	-53
JRJ Partners, LLC	388	590	666	---	598	911	1,025	-114
Cha Cha, LLC	1,003	1,264	1,365	---	1,542	1,944	2,100	-156
Beattie Farms Southwest	551	718	722	---	849	1,104	1,110	-6
Gila Monster Farms	3,405	4,296	4,833	---	6,046	7,647	8,500	-853
Wellton-Mohawk I.D.D.	208,078	250,187	278,000	-27,813	293,100	371,693	424,350	-52,657
BLM Permittees (Below Imperial Dam)	92	110	110	0	141	169	169	--
City of Yuma	11,301	14,874	15,151	-277	18,051	24,906	27,500	-2,594
U.S. Marine Corps Air Station Yuma	840	1,091	1,265	---	840	1,091	1,265	-174
Union Pacific Railroad	20	26	29	---	36	48	48	0
University of Arizona	616	773	897	---	616	773	897	-124
Yuma Union High School District	62	91	150	---	82	124	200	-76

WATER USER	Use To Date CY 2023	Forecast Use CY 2023	Estimated Use CY 2023	Excess to Estimated Use CY 2023	Diversion To Date CY 2023	Forecast Diversion CY 2023	Approved Diversion CY 2023	Excess to Approved Diversion CY 2023
Desert Lawn Memorial	23	27	27	---	32	38	38	0
North Gila Valley Irrigation District	6,853	8,305	9,486	---	30,081	40,026	43,500	-3,474
Yuma Irrigation District	24,961	32,969	38,958	---	46,648	62,335	73,100	-10,765
Yuma Mesa I.D.D.	66,219	77,789	104,430	---	127,423	165,637	230,252	-64,615
Unit "B" I.D.D.	13,159	14,226	13,421	---	20,128	24,363	28,300	-3,937
Arizona State Land Department - Agriculture	3,034	4,019	4,295	---	4,747	6,260	6,607	-347
Ott Family	224	269	269	---	345	414	414	0
Ogram Boys' Enterprises	496	595	595	---	764	916	916	0
Fort Yuma Indian Reservation	2,605	3,123	3,123	---	4,007	4,804	4,804	0
BLM - Leased by M. Lee	121	145	145	---	186	223	223	0
Armon Curtis	106	127	127	---	163	195	195	0
Yuma County Water Users' Association	181,056	245,024	277,259	---	250,951	339,886	367,400	-27,514
R. Griffin	25	30	30	---	38	46	46	0
Power	62	74	74	---	95	114	114	0
Cocopah Indian Tribe (PPR No. 7)	153	184	184	---	236	283	283	0
Griffin Ranches (PPR No. 7)	62	74	74	---	95	114	114	0
Milton Phillips (PPR No. 7)	37	44	44	---	56	67	67	0
Griffin Family Ltd. Partnership (PPR No. 7)	14	17	17	---	22	26	26	0
Cocopah Indian Reservation	1,051	1,470	1,820	---	1,202	1,851	2,812	-961
Bureau of Reclamation - Yuma Area Office	172	206	206	---	172	206	206	0
Arizona Public Service Company	0	0	0	---	0	0	0	0
Gary Pasquinelli	156	203	209	---	241	311	321	-10
Total Arizona	1,569,040	1,924,572	2,067,399		2,059,109	2,611,371	2,952,410	
Central Arizona Project (CAP)	673,942	837,319				837,319		
All Others	895,098	1,087,253	1,229,708			1,774,052	2,114,719	
Yuma Mesa Division, Gila Project	98,033	119,063	152,874			267,998	346,852	
Total 242 Well Field Pumping ³	25,172	29,873	47,183					

ARIZONA ADJUSTED APPORTIONMENT CALCULATION	
Arizona Basic Apportionment	2,800,000
Reduction for Tier 2a Shortage ⁴	(400,000)
Reduction for Arizona DCP Contributions ⁵	(192,000)
System Conservation Water - Pilot System Conservation Program ⁶	(500)
System Conservation Water - GM Gabrych Family ^{7,8}	(3,240)
System Conservation Water - Fort McDowell Yavapai Nation (FMYN) ^{7,9}	(13,933)
System Conservation Water - Gila River Indian Community (GRIC) ^{7,10}	(91,319)
System Conservation Water - Cathcarts ^{7,11}	(57)
System Conservation Water - Mohave Valley I.D.D. (MVIDD) ^{7,12}	(12,819)
System Conservation Water - San Carlos Apache Tribe (SCAT) ^{7,13}	(23,804)
System Conservation Water - CAP Subcontractors ^{7,14}	(141,400)
System Conservation Water - Cibola Valley I.D.D. (CVIDD) ^{7,15}	(1,682)
System Conservation Water - Reclamation (Estimated) ^{7,16}	0
Delivery of ICS (CAWCD) ¹⁷	38,752
Total State Adjusted Apportionment	1,957,998
Excess to Total State Adjusted Apportionment	(33,426)
Estimated Allowable Use for CAP	874,790

¹ Approved/forecasted values include up to 1,250 AF of diversion for domestic use pursuant to MVIDD's Subcontract No. 09-101 with the Mohave County Water Authority.

² Forecast Use incorporates CAWCD's operational schedule dated August 23, 2023. Amount shown includes the diversion of up to 2,033 AF to be delivered via the CAP to the Town of Queek Creek pursuant to Reclamation Wheeling Contract No. 20-XX-30-W0691 and the diversion of 72,000 AF of Arizona third priority Colorado River water to be delivered via the CAP to fulfill water rights settlements pursuant to the Stipulated Judgment and the Stipulation for Judgment entered on November 21, 2007.

³ In accordance with the Colorado River Water Conservation Letter Agreement 16-XX-30-W0603, Revision No. 1 (Revised Letter Agreement) between Reclamation and the Central Arizona Water Conservation District (CAWCD), pumping above the Historical Average Baseline (31,129 AF), up to 32,000 AF per year, will remain in Lake Mead as Colorado River System water.

⁴ In accordance with Section XI.G.2.D.1.b of the 2007 Interim Guidelines, a Tier 2 Shortage Condition will govern the operation of Lake Mead and the lower Colorado River in 2023, resulting in a 400,000 AF reduction to the state of Arizona's Colorado River basic apportionment.

⁵ In accordance with Section III.B.1.a of *Lower Basin Drought Contingency Operations* (LBOs), the state of Arizona is required to make DCP Contributions of 192,000 AF in 2023. CAWCD agrees to fulfill Arizona's DCP Contributions in accordance with Section II.3.b of the *Agreement Regarding Lower Basin Drought Contingency Plan Obligations*. In accordance with LBOs, CAWCD anticipates making its required DCP Contributions through the simultaneous creation and conversion of Extraordinary Conservation (EC) ICS to DCP ICS and the creation of Non-ICS Water (reductions in consumptive use). CAWCD has an approved ICS Plan for the creation of up to 100,000 AF of EC ICS in 2023. The actual amount of EC ICS created by CAWCD and converted to DCP ICS and credited toward the DCP Contribution will be based on final accounting and verification. In accordance with Section XI.G.3.B.4 of the 2007 Interim Guidelines and Section IV.B of LBOs, the total amount of EC ICS that may be created by the states of Arizona, California, and Nevada in 2023 will be limited to 625,000 AF. Additionally, the total amount of EC ICS, Binational ICS and DCP ICS accumulated in Arizona, California and Nevada's ICS Accounts will be limited in accordance with Section IV.C. of LBOs.

⁶ The estimated amount of System Conservation Water that will be created by the City of Bullhead City pursuant to System Conservation Implementation Agreement (SCIA) No. 15-XX-30-W0587, as amended. This System Conservation Water will remain in Lake Mead to benefit system storage.

Footnotes continued on next page.

Footnotes continued from previous page.

⁷ In accordance with the applicable conservation agreements, Section 3.b of the *Lower Basin Drought Contingency Plan Agreement* dated May 20, 2019 (LB DCP Agreement), and Section II.3.e of the *Agreement Regarding Lower Basin Drought Contingency Plan Obligations*, this System Conservation Water will remain in Colorado River reservoirs in the Lower Basin to benefit system storage. The Bureau of Reclamation intends to apply this water towards the Secretary of the Interior's commitment to create or conserve 100,000 AF per annum or more of Colorado River System water to contribute to conservation of water supplies in Lake Mead and other Colorado River reservoirs in the Lower Basin.

⁸ System Conservation Water being created pursuant to SCIA No. 23-XX-30-W-0774.

⁹ System Conservation Water being created by FMYN pursuant to SCIA No. 23-XX-30-W0750.

¹⁰ System Conservation Water being created by GRIC pursuant to SCIA No. 23-XX-30-W0760.

¹¹ System Conservation Water being created by Cathcarts pursuant to SCIA No. 23-XX-30-W0776.

¹² System Conservation Water being created by MVIDD pursuant to SCIA No. 23-XX-30-W0770.

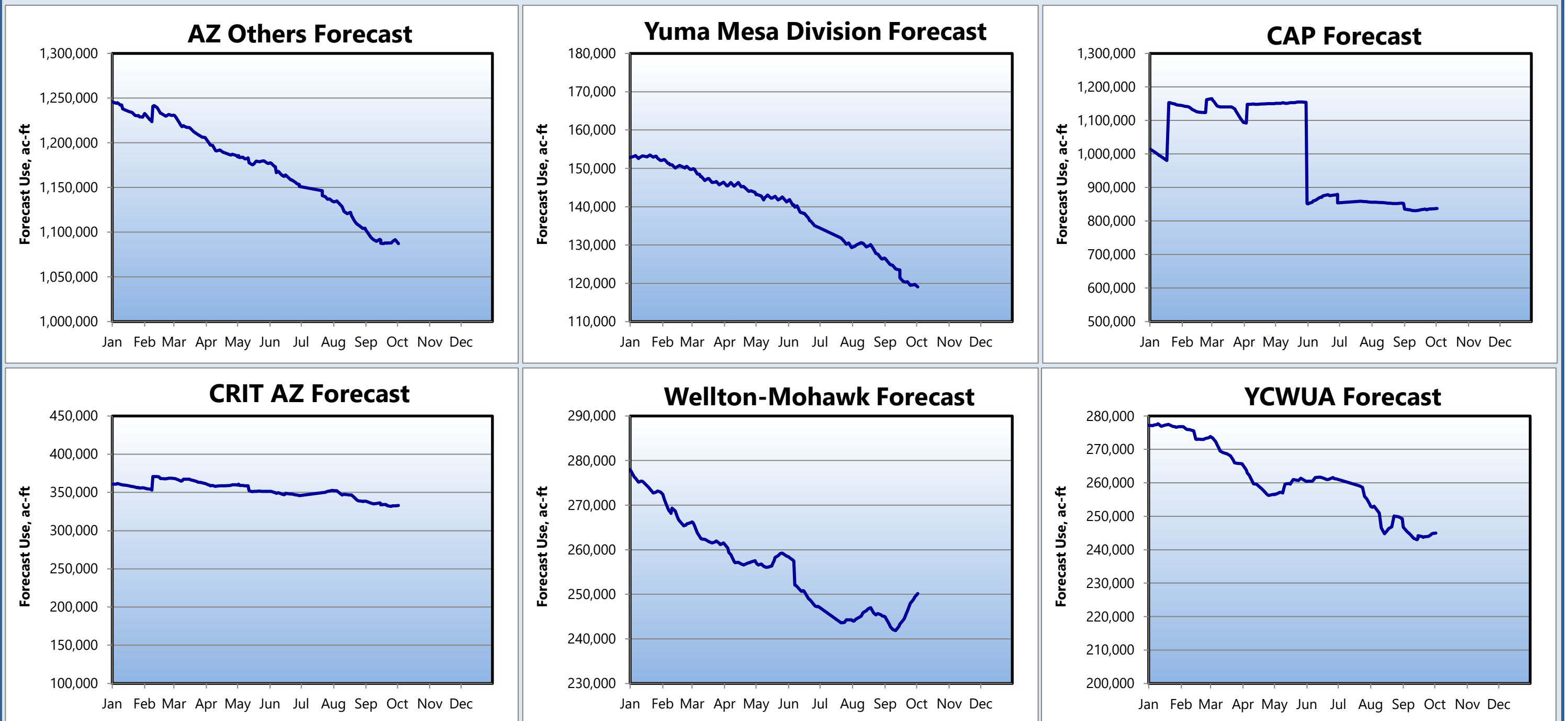
¹³ System Conservation Water being created by SCAT pursuant to SCIA No. 23-XX-30-W0765, as amended.

¹⁴ System Conservation Water being created by certain CAP Subcontractors pursuant to executed SCIA's.

¹⁵ System Conservation Water being created by CVIDD pursuant to SCIA No. 23-XX-30-W0771.

¹⁶ The estimated amount of System Conservation Water that will be created by additional pumping from the 242 Well Field Expansion pursuant to Letter Agreement No. 16-XX-30-W0603, Revision No. 1, which will remain in Lake Mead to benefit system storage.

¹⁷ Amount shown incorporates a reduction of 41,776 AF in CAWCD's EC ICS delivery resulting from CAP Subcontractor participation in the 2023 ADWR-CAWCD ICS Preservation Program.



NOTES: Click on Arizona Schedules and Approvals above for incoming diversion schedules and approvals.



**LOWER COLORADO BASIN REGION
CY 2023**

NOTE:
 • Diversions and uses that are pending approval are noted in *red italics*.
 • Water users with a consumptive use entitlement - **Excess to Estimated Use** column indicates overrun/underrun of entitlement. Dash in this column indicates water user has a diversion entitlement.
 • Water user with a diversion entitlement - **Excess to Approved Diversion** column indicates overrun/underrun of entitlement. Dash in this column indicates water user has a consumptive use

CALIFORNIA WATER USERS

Forecast end of year diversion/consumptive use
 Forecast based on use to date and approved annual water orders
[California Schedules and Approvals](#)

WATER USER	Use	Forecast	Estimated	Excess to	Diversion	Forecast	Approved	Excess to
	To Date	Use	Use	Use	To Date	Diversion	Diversion	Approved
	CY 2023	CY 2023	CY 2023	CY 2023	CY 2023	CY 2023	CY 2023	CY 2023
Fort Mojave Indian Reservation, CA	5,855	7,190	8,994	---	10,885	13,367	16,720	-3,353
City of Needles (includes LCWSP use)	903	1,244	1,605	-361	1,554	2,034	2,261	-227
PPR No. 30 (Stephenson)	16	19	19	---	28	34	34	0
PPR No. 38 (Andrade)	21	25	25	---	38	45	45	---
PPR No. 40 (Cooper)	5	6	6	---	8	10	10	---
Chemehuevi Indian Reservation	153	183	183	---	9,459	11,340	11,340	0
The Metropolitan Water District of Southern California ¹	503,708	654,388		---	505,679	657,032		---
Colorado River Indian Reservation, CA	3653	4,380	4,380	---	6,054	7,258	7,258	0
Palo Verde Irrigation District	266,155	295,793	423,836	---	572,741	701,644	862,000	-160,356
PPR No. 31 (Mendivil)	3	3	3	---	5	6	6	0
Yuma Project Reservation Division	26,394	36,559	46,057	---	55,118	76,955	93,850	-16,895
Yuma Project Reservation Division - Bard Unit	---	---	---	---	23,698	34,946	46,452	-11,506
Yuma Project Reservation Division - Indian Unit	---	---	---	---	31,420	42,008	47,398	-5,390
Fort Yuma Indian Reservation - Ranch 5 (Surface Delivery)	754	1,063	1,194	---	1,365	1,924	2,160	-236
Fort Yuma Indian Reservation - Other Ranches (Pumpers)	948	1,137	1,137	---	1,717	2,058	2,058	0
Yuma Island Pumpers	1,220	1,463	1,463	---	2,208	2,647	2,647	0
Imperial Irrigation District	1,931,367	2,407,325	2,617,800	-210,475	1,942,553	2,458,097	2,767,270	---
Coachella Valley Water District	224,668	300,797	354,000	-53,203	233,953	316,697	<i>375,987</i>	---
Other LCWSP Contractors	439	526	526	---	683	819	819	0
City of Winterhaven	48	58	58	---	68	81	81	0
Total California	2,966,310	3,712,159	4,114,750		3,344,116	4,252,048	4,800,593	

CALIFORNIA ADJUSTED APPORTIONMENT CALCULATION

California Basic Apportionment	4,400,000
System Conservation Water - Pilot System Conservation Program ²	(145)
System Conservation Water - CVWD ^{3,4}	(35,000)
System Conservation Water - PVID Following Program ^{3,5}	(58,400)
Creation of Extraordinary Conservation ICS - MWD ⁶	(450,000)
Total State Adjusted Apportionment	3,856,455
Excess to Total State Adjusted Apportionment	(144,296)

Estimated Allowable Use for MWD

1,248,684

¹ Forecast Use is based on MWD's operational projected diversion of 0.750 maf for August's 24MS.

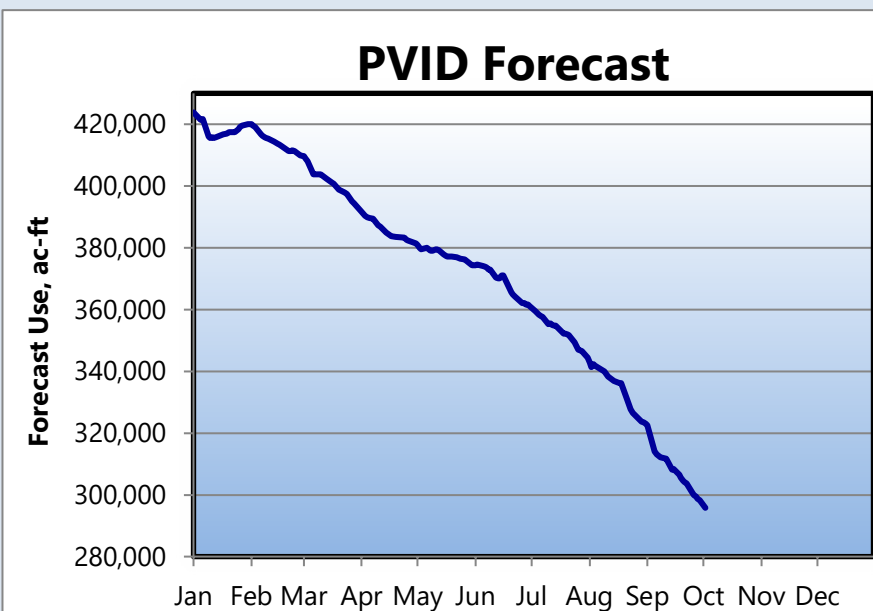
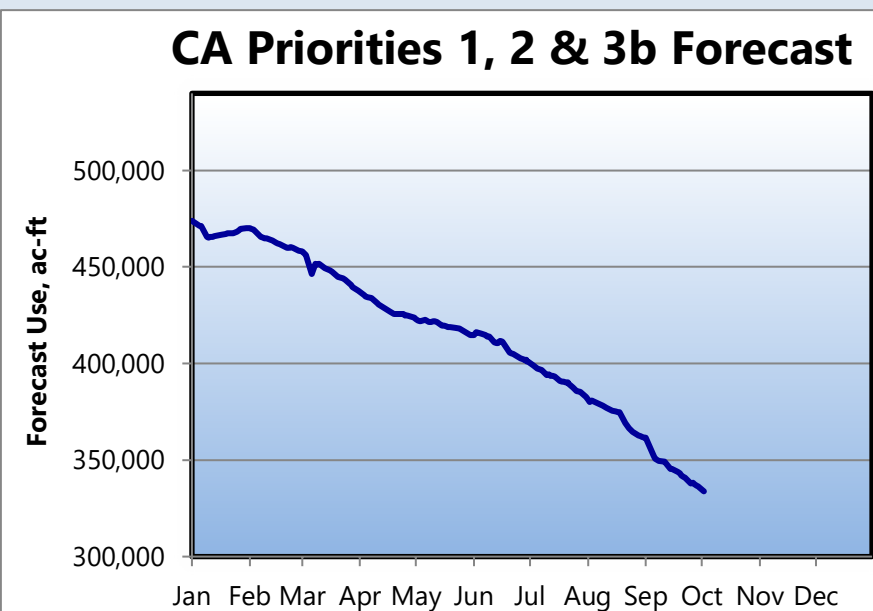
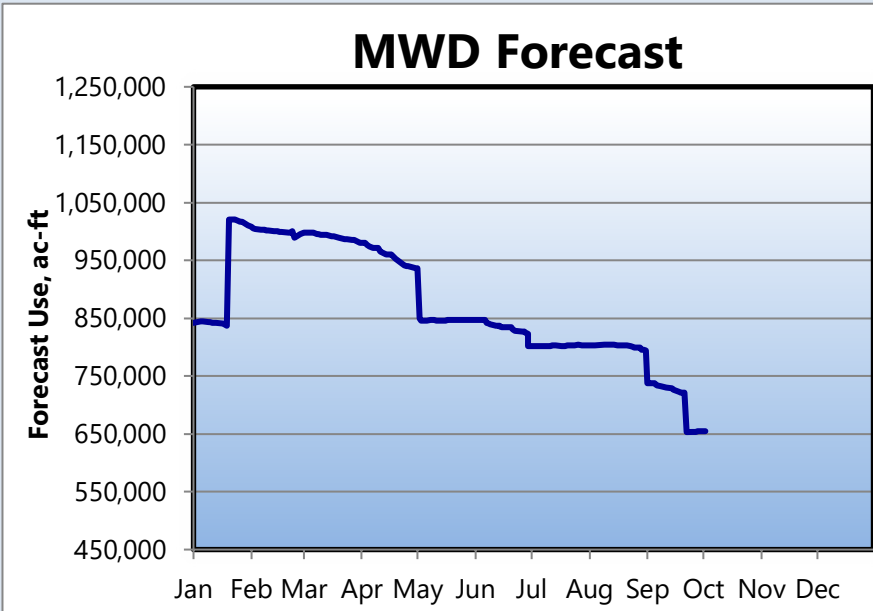
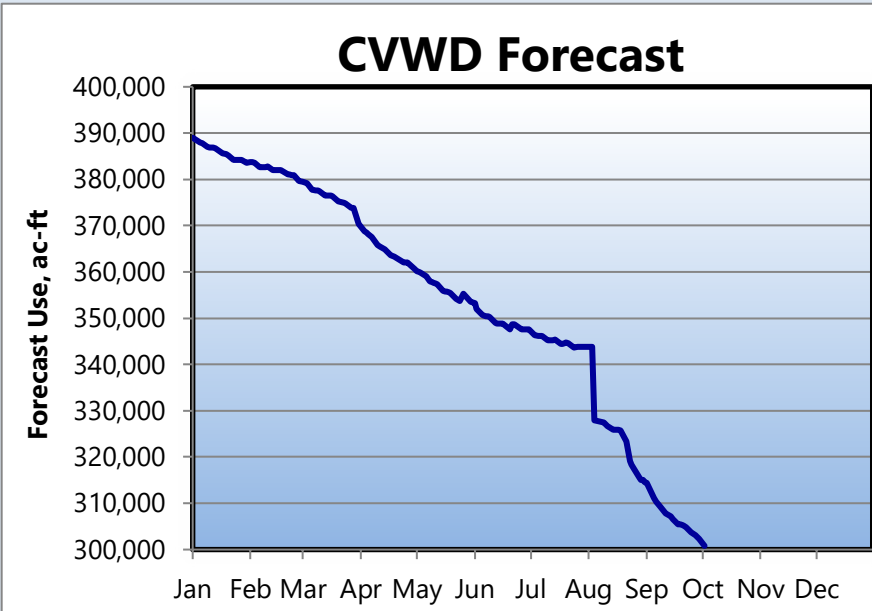
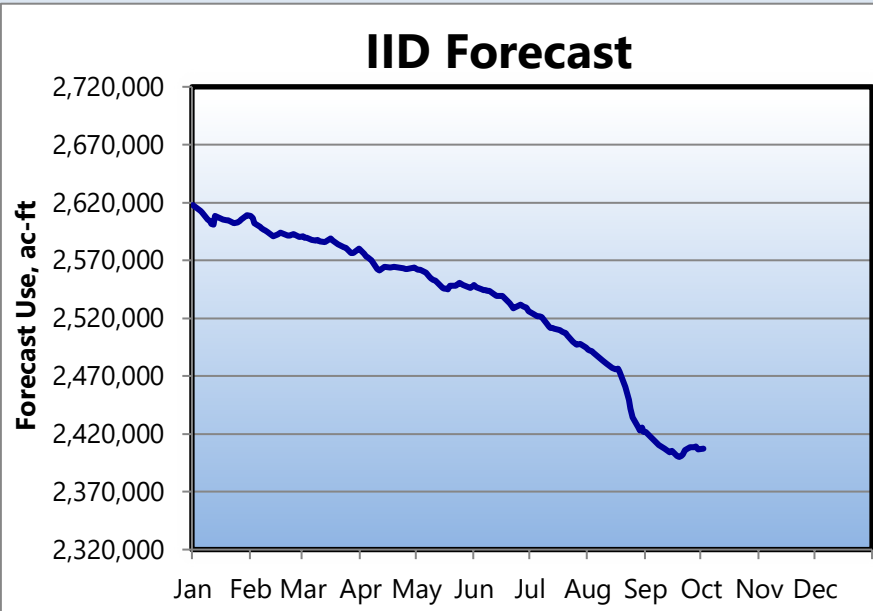
² System Conservation Water to be conserved by the City of Needles pursuant to System Conservation Implementation Agreement No. 15-XX-30-W0596, executed under the Pilot System Conservation Program. This water will remain in Lake Mead to benefit system storage.

³ In accordance with the applicable system conservation agreements and Section 3.b of the *Lower Basin Drought Contingency Plan Agreement*, the Bureau of Reclamation intends to apply all or a portion of this water towards the Secretary of the Interior's commitment to create or conserve 100,000 AF per annum or more of Colorado River System water to contribute to conservation of water supplies in Lake Mead and other Colorado River reservoirs in the Lower Basin.

⁴ The estimated amount of System Conservation Water that will be created pursuant to SCIA No. 23-XX-30-W0764.

⁵ The estimated amount of System Conservation Water that will be created pursuant to Funding Agreement No. 21-XX-30-W0714.

⁶ MWD has an approved ICS Plan for the creation of up to 450,000 AF of Extraordinary Conservation (EC) ICS in 2023. The actual amount of EC ICS created by MWD in 2023 will be based on final accounting and verification. In accordance with Section XI.G.3.B.4 of the 2007 Interim Guidelines and Section IV.B of Lower Basin Drought Contingency Operations (LBOps), the total amount of EC ICS that may be created by the states of Arizona, California, and Nevada in 2023 will be limited to 625,000 AF. Additionally, the total amount of EC ICS, Binational ICS and DCP ICS accumulated in Arizona, California and Nevada's ICS Accounts will be limited in accordance with Section IV.C. of LBOps.



NOTES: Click on California Schedules and Approvals above for incoming diversion schedules and approvals.



**LOWER COLORADO BASIN REGION
CY 2023**

NOTE:

- Diversions and uses that are pending approval are noted in *red italics*.
- Water users with a consumptive use entitlement - **Excess to Estimated Use** column indicates overrun/underrun of entitlement. Dash in this column indicates water user has a diversion entitlement.
- Water user with a diversion entitlement - **Excess to Approved Diversion** column indicates overrun/underrun of entitlement. Dash in this column indicates water user has a consumptive use entitlement.

NEVADA WATER USERS

Forecast end of year diversion/consumptive use

Forecast based on use to date and approved annual water orders

[Nevada Schedules and Approvals](#)

WATER USER	Use To Date CY 2023	Forecast Use CY 2023	Estimated Use CY 2023	Excess to Estimated Use CY 2023	Diversion To Date CY 2023	Forecast Diversion CY 2023	Approved Diversion CY 2023	Excess to Approved Diversion CY 2023
Robert B. Griffith Water Project (SNWS)	334,539	420,358		---	334,539	420,358		---
Lake Mead NRA, NV - Diversions from Lake Mead	457	843	1,500	---	457	843	1,500	-657
Lake Mead NRA, NV - Diversions from Lake Mohave	150	266	500	---	150	266	500	-234
Basic Management, Inc.	0	0	0	---	0	0	0	0
City of Henderson (BMI Delivery)	0	0	0	---	0	0	0	0
Nevada Department of Wildlife	0	0	0	0	0	0	0	---
Pacific Coast Building Products, Inc.	693	883	928	---	693	883	928	-45
Boulder Canyon Project	148	177	177	---	250	300	300	0
Big Bend Water District	1,744	2,768	4,688	---	3,614	5,865	10,000	-4,135
Fort Mojave Indian Tribe	2,242	2,707	4,624	---	3,347	4,040	6,900	-2,860
Las Vegas Wash Return Flows	-179,071	-237,734	-231,289	---				
Total Nevada¹	160,902	190,268	223,000	0	343,050	432,555	462,000	-7,931
Southern Nevada Water System (SNWS)	155,468	182,624				420,358		
All Others	5,434	7,644				12,197		
Nevada Uses Above Hoover	156,916	184,793				422,650		
Nevada Uses Below Hoover	3,986	5,475				9,905		

Tributary Conservation (TC) Intentionally Created Surplus (ICS)

Southern Nevada Water Authority (SNWA) Creation of TC ICS (Approved)² 44,000

NEVADA ADJUSTED APPORTIONMENT CALCULATION

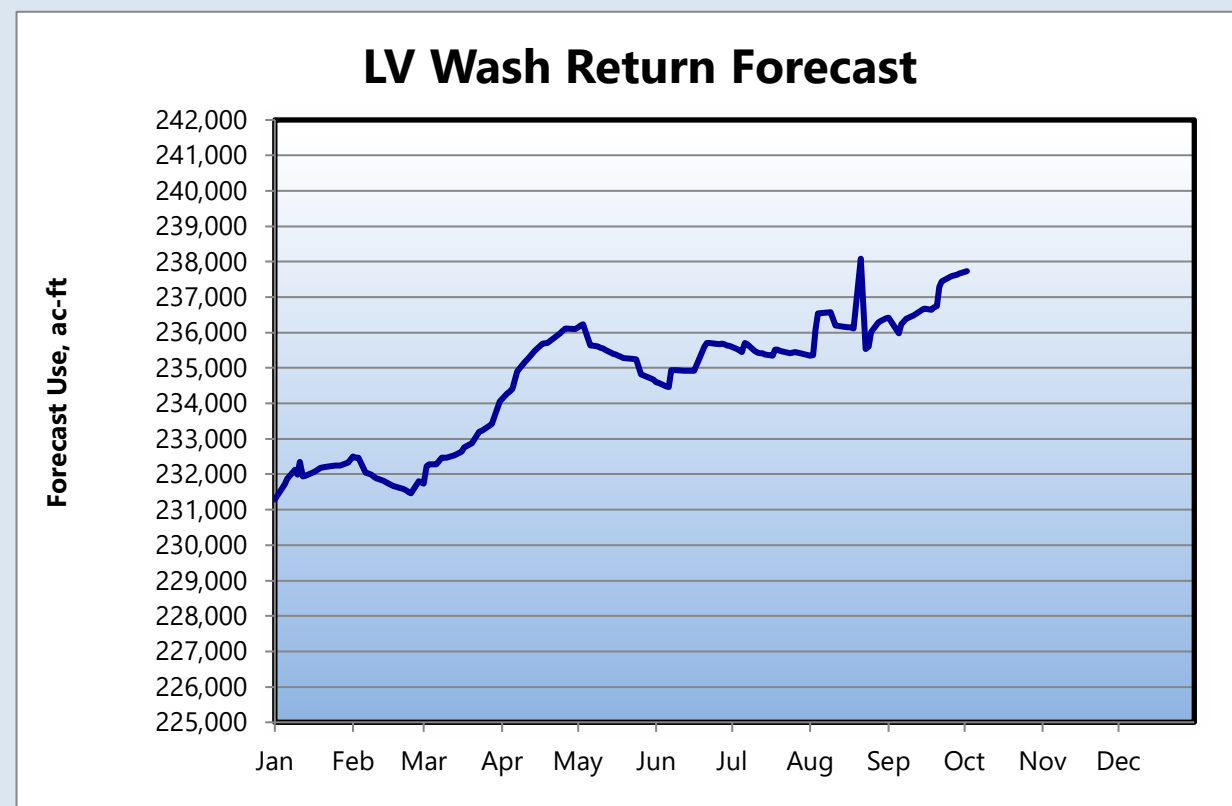
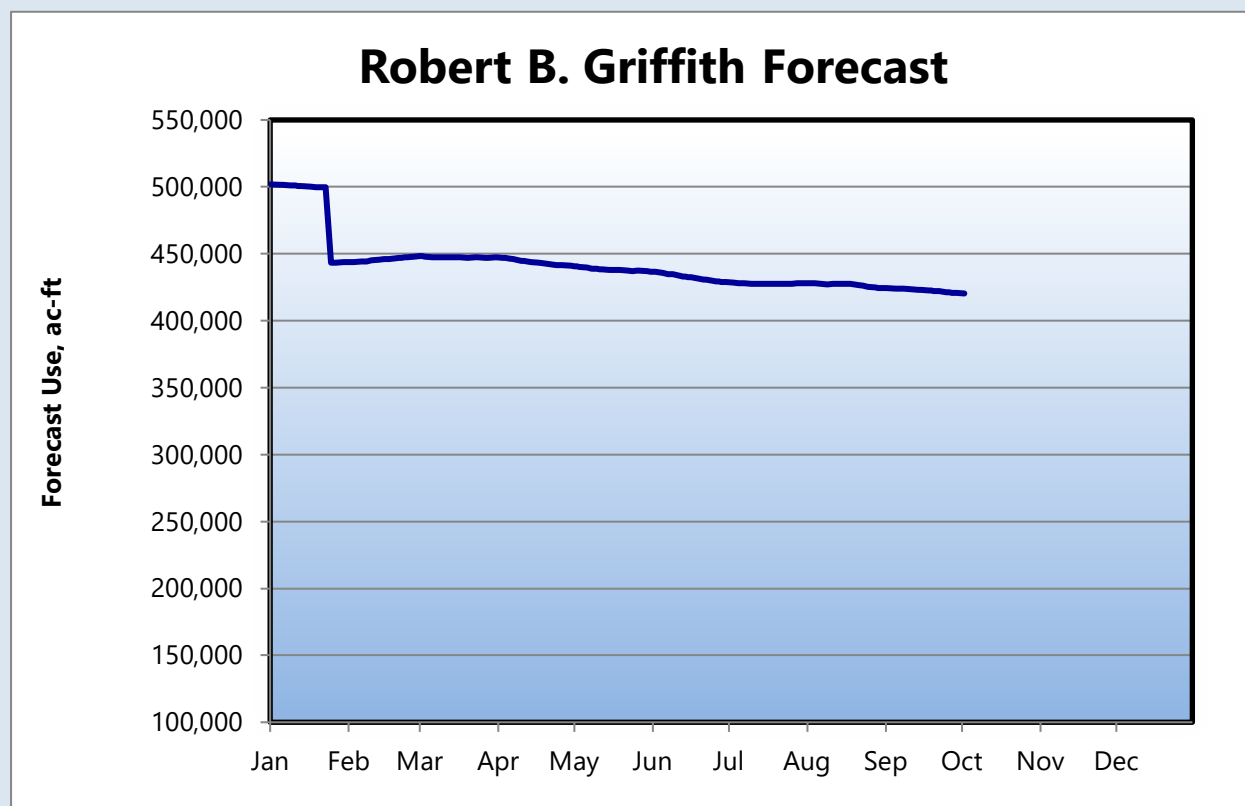
Nevada Basic Apportionment	300,000
Reduction for Tier 2 Shortage ³	(17,000)
Creation of Extraordinary Conservation ICS - SNWA (Estimated) ⁴	(92,732)
Total State Adjusted Apportionment	190,268
Excess to Total State Adjusted Apportionment	0

¹ The State of Nevada has been approved to consumptively use up to 283,000 AF in CY 2023. Forecast Use shown here is based on Nevada's operational projected consumptive use of 223,000 AF.

² SNWA has an approved ICS Plan for the creation of up to 44,000 AF of TC ICS in 2023. The actual amount of TC ICS created by SNWA in 2023 will be based on final accounting and verification.

³ In accordance with Section XI.G.2.D.1.B of the 2007 Interim Guidelines, a Tier 2 Shortage Condition will govern the operation of Lake Mead and the lower Colorado River in 2023, resulting in a 17,000 AF reduction to the state of Nevada's Colorado River basic apportionment.

⁴ SNWA has an approved ICS Plan for the creation of up to 100,000 AF of Extraordinary Conservation (EC) ICS in 2023. The actual amount of EC ICS created by SNWA in 2023 will be based on final accounting and verification. In accordance with Section XI.G.3.B.4 of the 2007 Interim Guidelines and Section IV.B of *Lower Basin Drought Contingency Operations* (LBOps), the total amount of EC ICS that may be created by the states of Arizona, California, and Nevada in 2023 will be limited to 625,000 AF. Additionally, the total amount of EC ICS, Binational ICS and DCP ICS accumulated in Arizona, California and Nevada's ICS Accounts will be limited in accordance with Section IV.C. of LBOps.

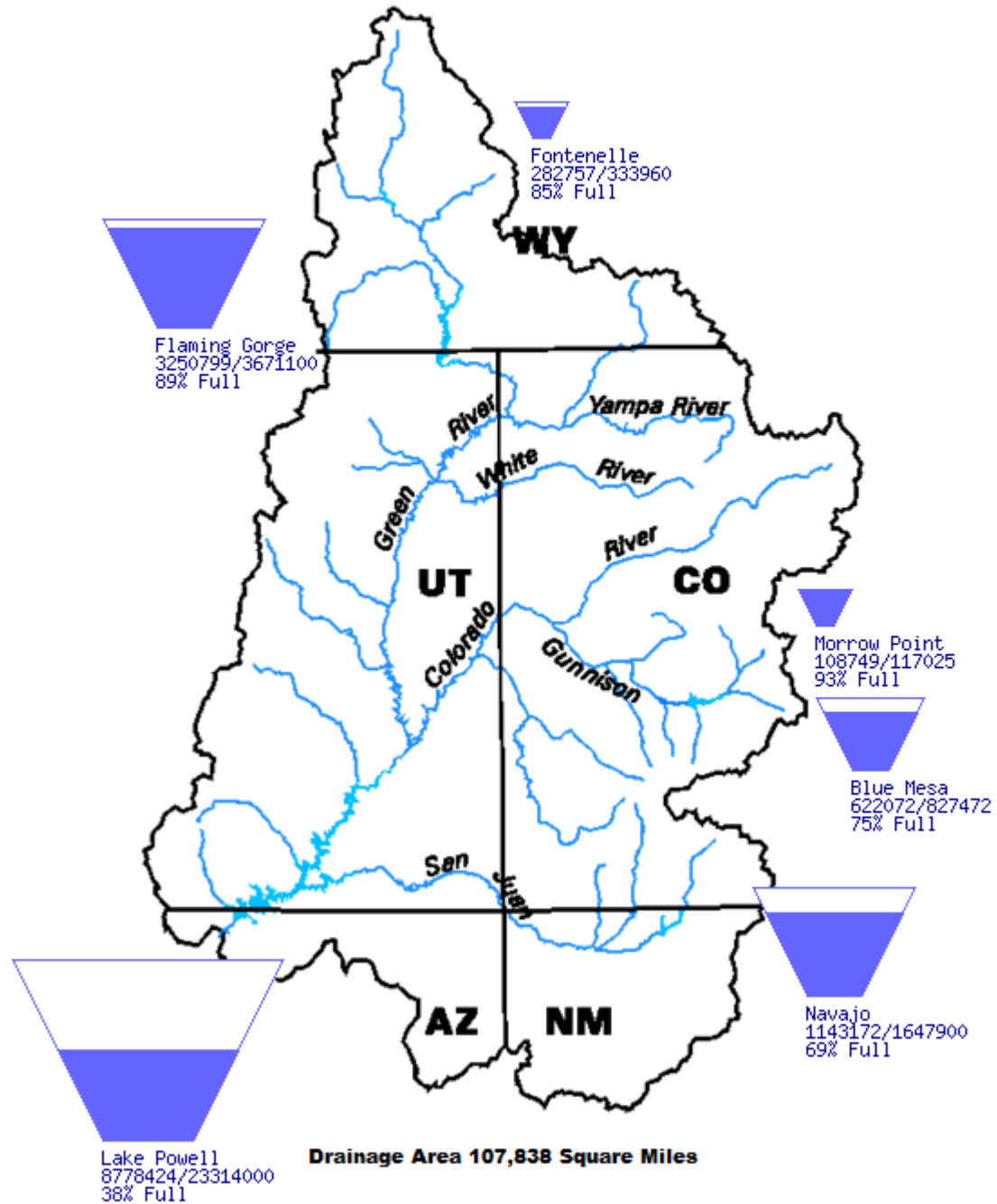


Upper Colorado Region Water Resources Group

River Basin Tea-Cup Diagrams

Data Current as of:
10/04/2023

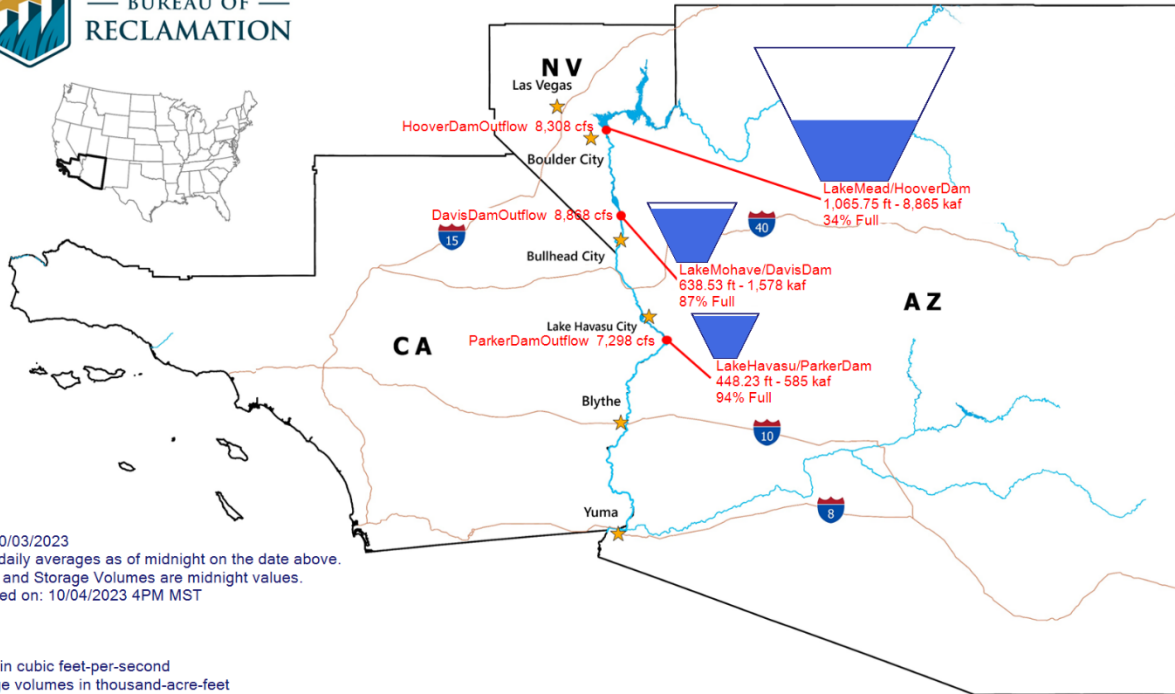
Upper Colorado River Drainage Basin



Lower Colorado River Teacup Diagram



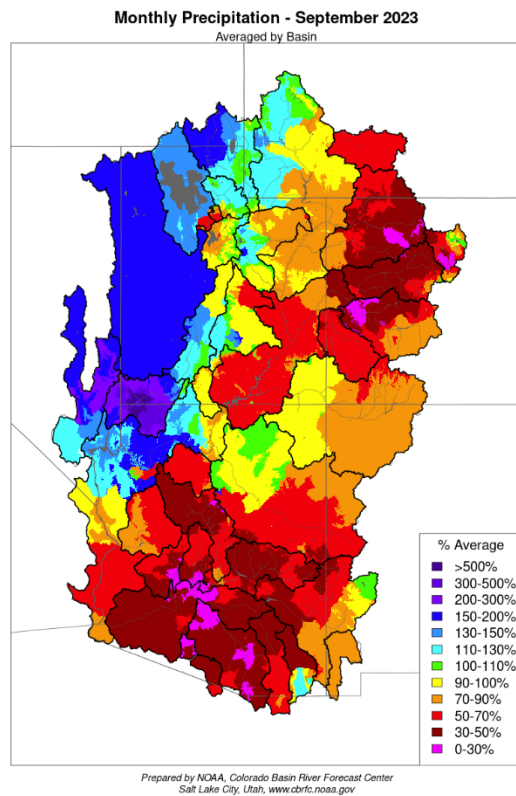
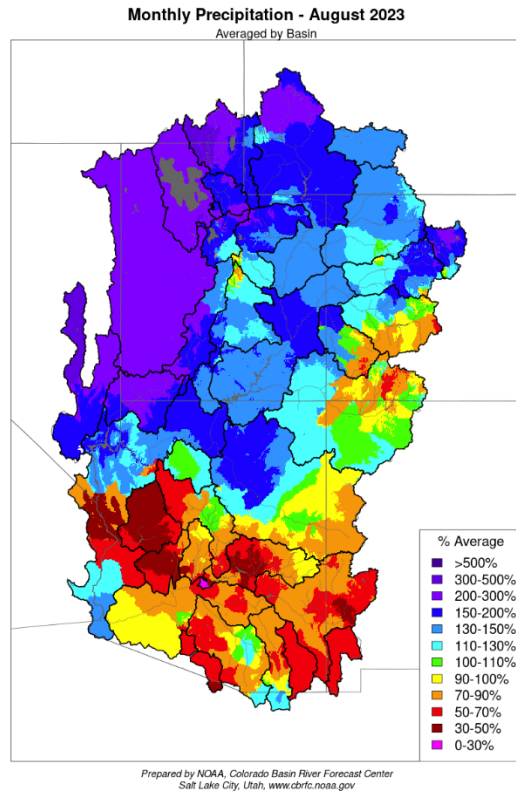
BUREAU OF RECLAMATION

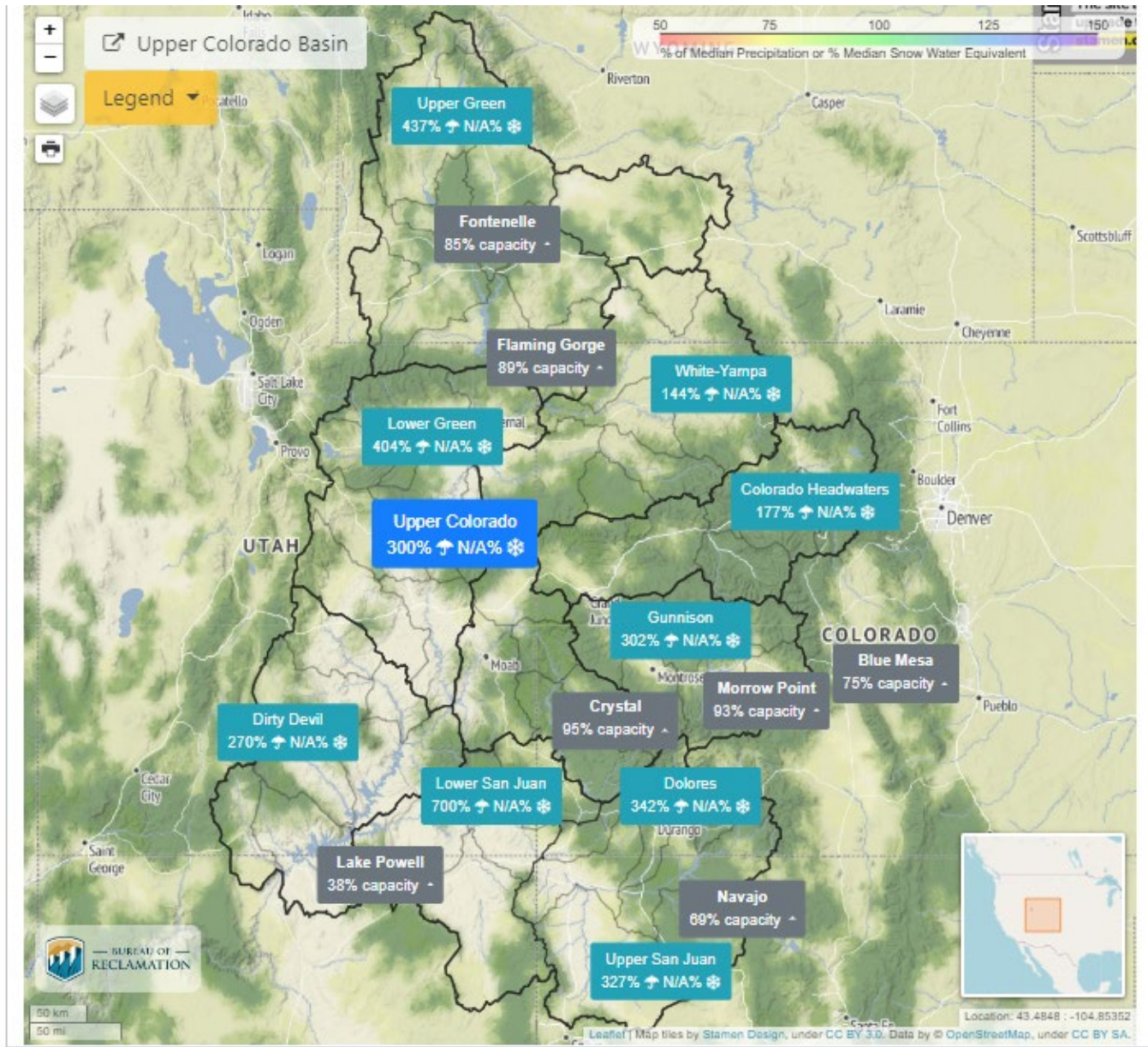


Data for: 10/03/2023
 Flows are daily averages as of midnight on the date above.
 Elevations and Storage Volumes are midnight values.
 Last updated on: 10/04/2023 4PM MST

LEGEND:
 cfs: Flows in cubic feet-per-second
 kaf: Storage volumes in thousand-acre-feet
 ft: Elevations in feet above mean-sea-level

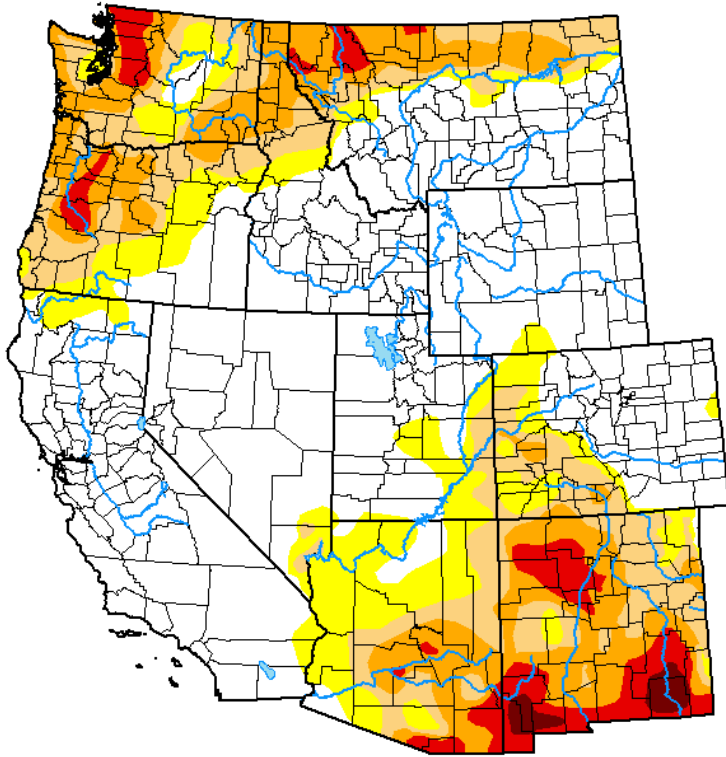
NOAA National Weather Service Monthly Precipitation Map August and September 2023





**U.S. Drought Monitor
West**

October 3, 2023
(Released Thursday, Oct. 5, 2023)
Valid 8 a.m. EDT



Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	55.48	44.52	31.63	18.19	5.36	0.70
Last Week <i>09-26-2023</i>	55.99	44.01	31.24	17.70	6.09	0.70
3 Months Ago <i>07-04-2023</i>	65.77	34.23	14.65	2.22	0.00	0.00
Start of Calendar Year <i>01-03-2023</i>	12.08	87.92	62.42	38.84	12.41	0.27
Start of Water Year <i>09-26-2023</i>	55.99	44.01	31.24	17.70	6.09	0.70
One Year Ago <i>10-04-2022</i>	5.35	94.65	73.35	47.43	19.32	2.65

Intensity:

- None
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

Author:

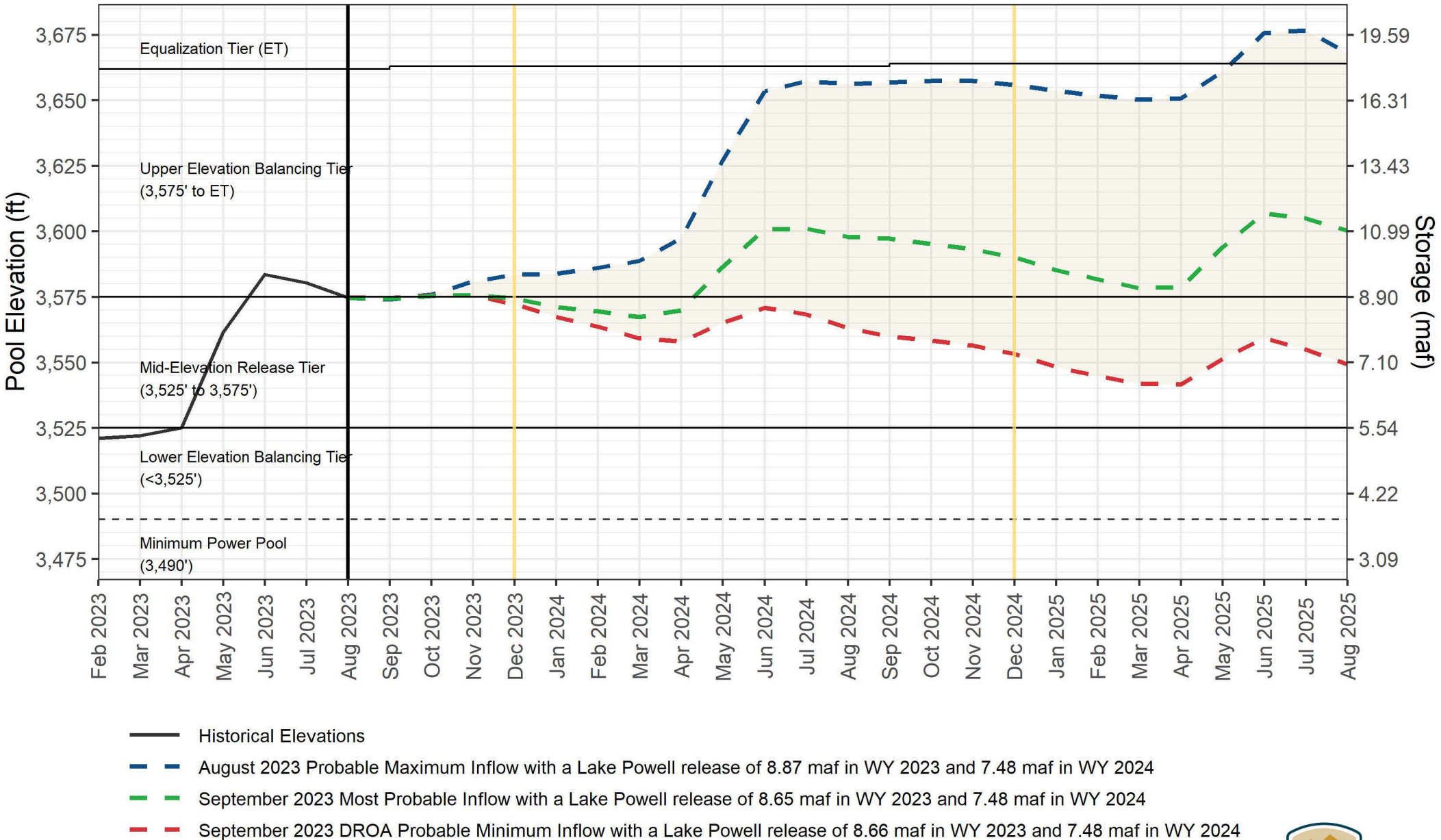
Brad Pugh
CPC/NOAA



droughtmonitor.unl.edu

Lake Powell End-of-Month Elevations

Projections from August and September 2023 24-Month Study Inflow Scenarios

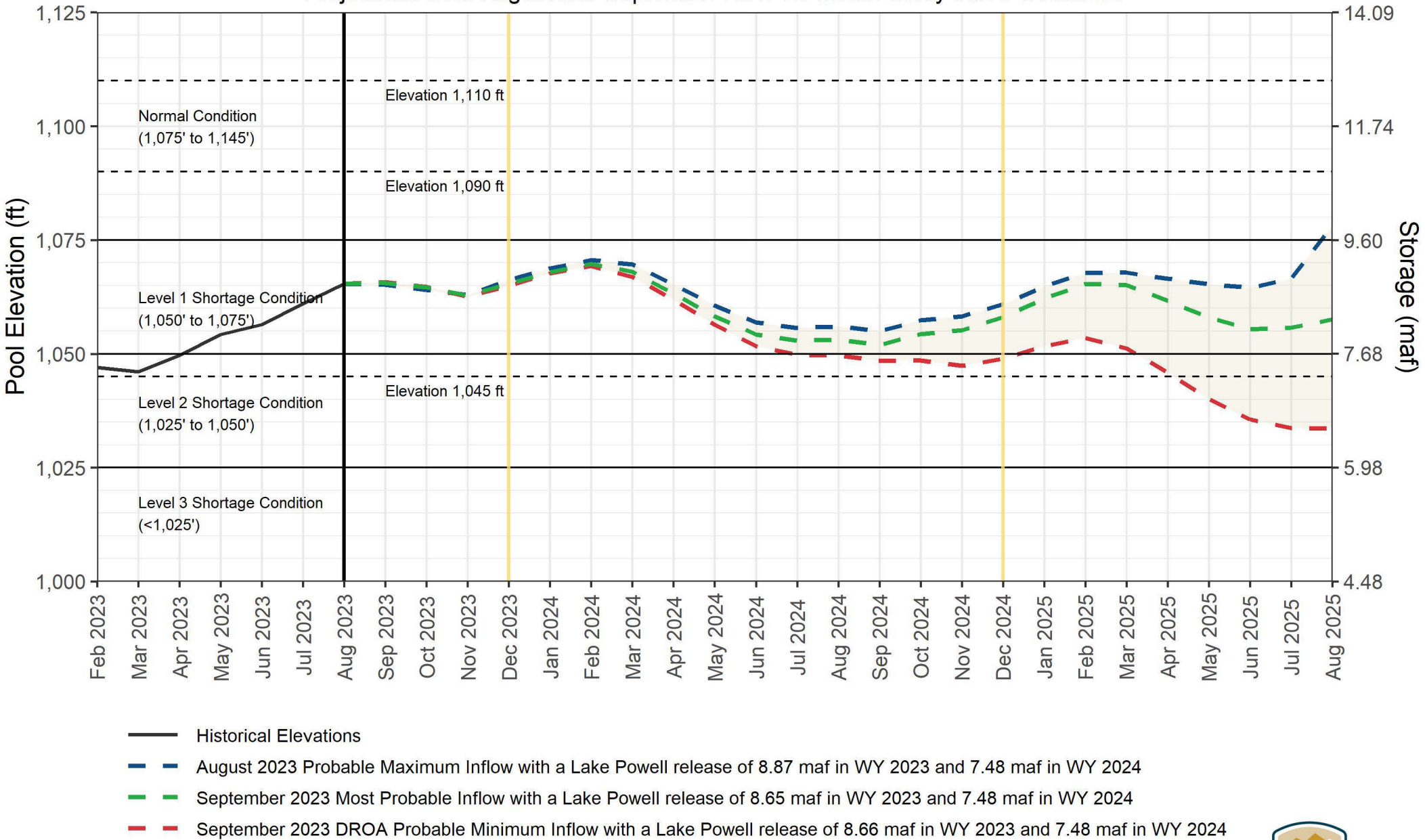


The Drought Response Operations Agreement (DROA) is available online at <https://www.usbr.gov/dcp/finaldocs.html>.



Lake Mead End-of-Month Elevations

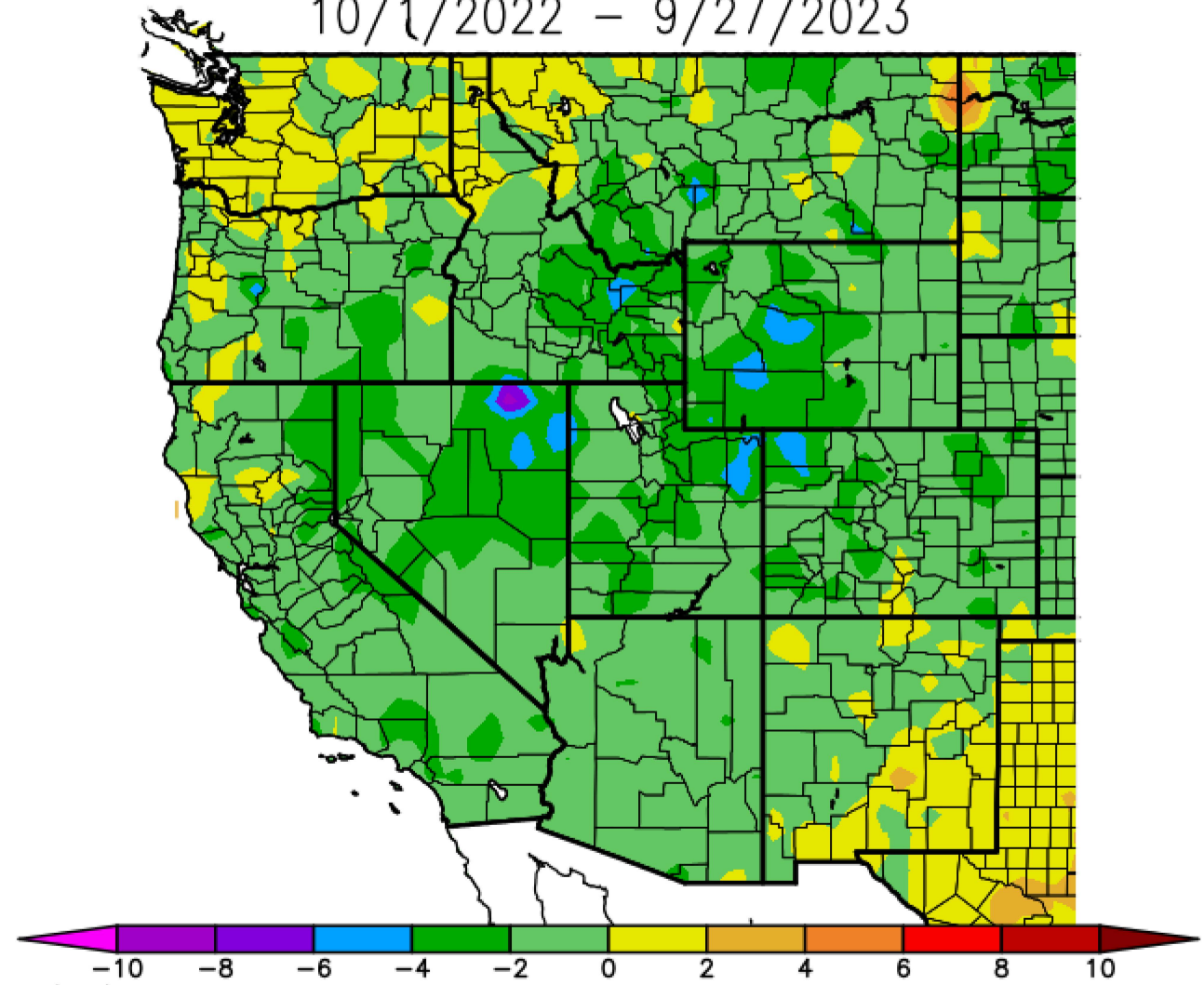
Projections from August and September 2023 24-Month Study Inflow Scenarios



The Drought Response Operations Agreement (DROA) is available online at <https://www.usbr.gov/dcp/finaldocs.html>.

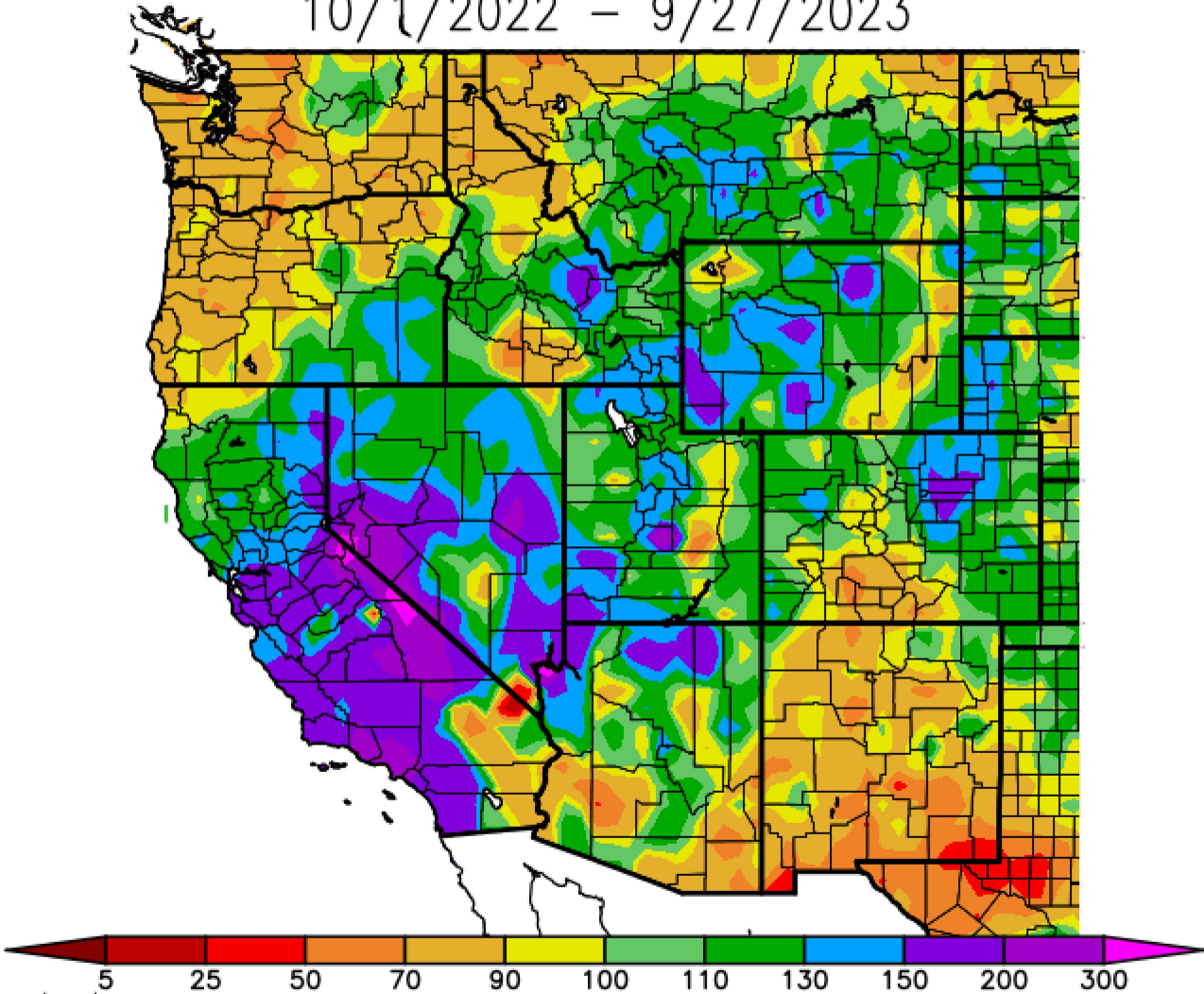


Ave. Temperature dep from Ave (deg F)
10/1/2022 - 9/27/2023



Generated 9/28/2023 at WRCC using provisional data.
NOAA Regional Climate Centers

Percent of Average Precipitation (%)
10/1/2022 – 9/27/2023

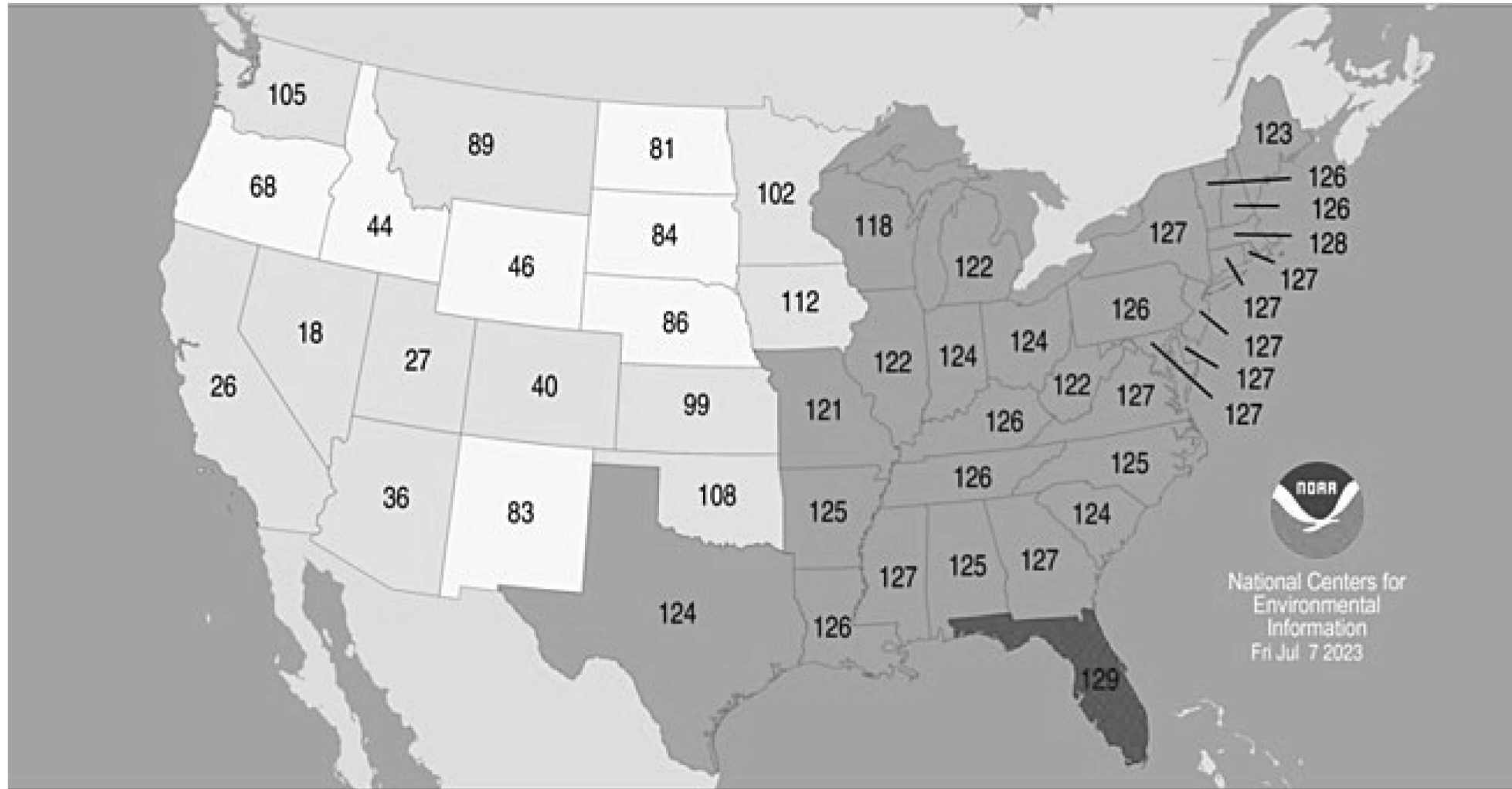


Generated 9/28/2023 at WRCC using provisional data.
NOAA Regional Climate Centers

Statewide Average Temperature Ranks

January – June 2023

Period: 1895–2023



Record Coldest (1)

Much Below Average

Below Average

Near Average

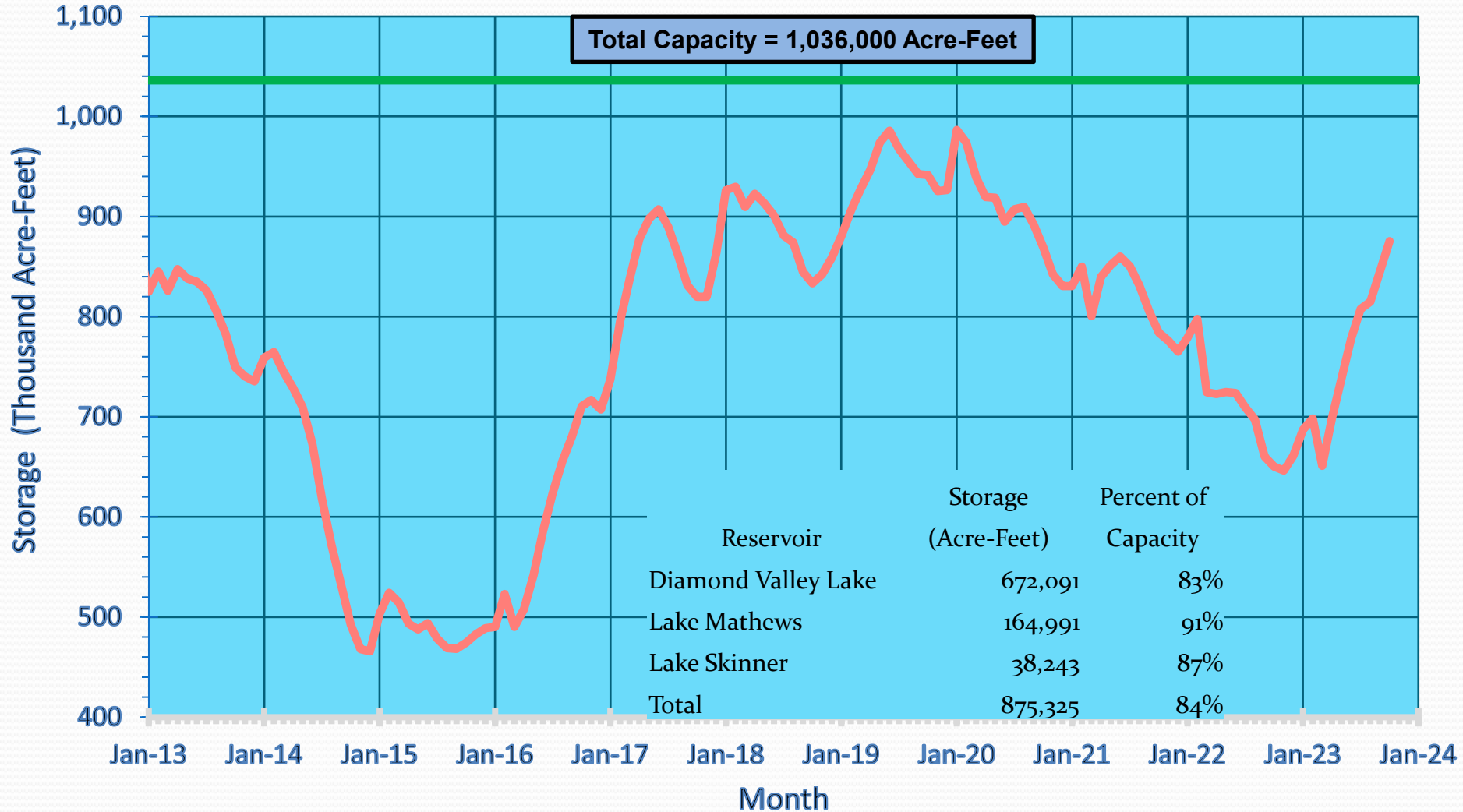
Above Average

Much Above Average

Record Warmest (129)

MWD's Combined Reservoir Storage as of October 1, 2023

Lake Skinner, Lake Mathews, and Diamond Valley Lake



2023 Water Deliveries to Agencies (AF)

Total Delivery To Date: 0.91 MAF
Average Total Delivery to Date: 1.16 MAF
81% of Annual Average to Date

