EXECUTIVE DIRECTOR'S REPORT TO THE COLORADO RIVER BOARD OF CALIFORNIA

<u>April 14, 2021</u>

COLORADO RIVER BASIN WATER SUPPLY CONDITIONS REPORT

As of April 5th, the surface water elevation at Lake Powell was 3,566.15 feet with 8.80 millionacre feet (MAF) of storage, or 36% of capacity. The surface water elevation at Lake Mead was 1,084.01 feet with 10.35 MAF of storage, or 40% of capacity. As of April 4th, the total system storage was 26.25 MAF, or 44% of capacity, which is about 4.69 MAF less than the total system storage at this same time last year.

As of March 1st, the Upper Basin reservoirs, excluding Lake Powell, ranged from 36% of capacity at Fontenelle Reservoir in Wyoming; 85% of capacity at Flaming Gorge Reservoir in Wyoming and Utah; 90% of capacity at Morrow Point, and 48% of capacity at Blue Mesa Reservoir in Colorado; and 62% of capacity at Navajo Reservoir in New Mexico.

As of April 2nd, the forecasted unregulated inflow into Lake Powell for Water Year (WY) 2021 is 4.90 MAF (45% of normal). The forecasted April through July 2021 runoff into Lake Powell for Water Year-2021 is 3.2 MAF (45% of normal). For WY-2021, the March observed Lake Powell inflow was 0.30 MAF (45% of normal), and the April Lake Powell inflow forecast is 0.40 MAF (38% of normal). To date, WY-2021 precipitation is 76% of normal and the current basin snowpack is 78% of normal in the Upper Colorado River Basin.

Colorado Basin River Forecast Center Webinar

On April 7th, the Colorado Basin River Forecast Center (CBRFC) held a webinar to review the Basin's current water supply conditions and forecasts. Very dry soil conditions continue to plague the Basin, threatening to impact water supply conditions as runoff season begins, with the worst soil conditions in the San Juan and Dolores Basins. Precipitation conditions in March were mixed, with above normal conditions in Colorado and portions of the Uintas, and near to below normal throughout the rest of the basin. Water Year-2021 precipitation conditions to date (October 2020 to April 2021), range from 70% to 85% of average in the Upper Basin and 50% to 60% of average in the Lower Basin. Temperatures in March were near to below normal, with the coolest temperature anomalies in the Lower Basin. Consequently, the cooler temperatures helped preserve the snowpack throughout the Basin. According to the California Department of Water

Resources, for Water Year 2021, the snowpack in the Northern and Central Sierra peaked at 70 percent of average, however rain is below 50 percent of average, which ties this year for the third driest year on record.

Warmer temperatures in early April spurred widespread snowmelt of 1 to 4 inches across the Upper Basin. Largely, the snowmelt occurred at elevations below 9,500 feet, across central and south Utah, as well as southwest Colorado. Less snowmelt occurred in Wyoming and higher elevations along the continental divide. As of April 6th, the Snow Water Equivalent (SWE) ranged from 55% of median in the Price/San Rafael Basin to 80% of median in the Upper Green, San Juan, and Upper Colorado Mainstem. In the Lower Basin, most of the snow has melted out. Forecasted water supply values continue to decline, with the Upper Basin ranging from 35% to 80% of normal and 0% to 35% of normal in the Lower Basin.

Over the week, weather models project a few weak storm systems impacting the Basin with normal seasonal temperatures across the northern portion of the Basin and for the remainder of the week. Temperatures will be seasonal across the northern basin and 5 to 10 degrees above normal the southern portion of the Basin. Within two weeks, model guidance suggests a storm system may impact the Basin mainly at the Continental Divide and the Front Range in Colorado.

The next Colorado River Basin Water Supply Briefing is scheduled on Friday, May 7th at 10:00 am MT.

Colorado River Mid-term Modeling System (CRMMS)

On April 7th, 2021, Reclamation provided an overview of the Colorado River Mid-term Modeling System (CRMMS) to the Stakeholder Modeling Work Group. Over the past year, Reclamation has been integrating its two Colorado River mid-term basin-wide models, the 24-Month Study model and the Mid-Term Operations probabilistic Model (MTOM), into a single modeling system. In March 2021, Reclamation completed this integration resulting in a new system, the Colorado River Mid-term Modeling System (CRMMS). CRMMS is a robust and flexible modeling system which improves and enhances Reclamation's mid-term modeling capabilities. It maintains the functionality of the 24-Month Study model and MTOM but brings them together in a single model system. This was done to make model development and maintenance more efficient, improve the process used to share deterministic and probabilistic information, and streamline the process for 24 Month Study, MTOM, and CRSS runs. Operational roll-out of CRMMS is a critical step in continually developing more efficient and effective modeling tools to support operational planning on the 1- to 5-year planning horizon and is an important first step in providing more regular probabilistic information associated with mid-term operations.

COLORADO RIVER BASIN PROGRAM UPDATES

Colorado River Basin Salinity Control Program

Colorado River Basin Salinity Economic Impact Model

On April 8th, 2021, Reclamation led a training of the Colorado River Basin Salinity Economic Impact Model (SEIM). The SEIM estimates the economic damages of salinity in municipal and agricultural service areas in the Lower Colorado River basin that either receive Colorado River water directly or as a blend of Colorado River water with local supplies. Elevated TDS concentrations from Colorado River water are compared with a baseline TDS concentration (defaulted to the U.S. EPA secondary drinking water quality standard of 500 mg/L) and therefore the model estimates relative salinity economic damages relative to the baseline rather than absolute costs. The SEIM is used to evaluate the effectiveness of alternative salinity management activities in the Upper Colorado River basin, which are documented in the Triennial Review of Water Quality Standards for Salinity Colorado River System. Several CRB member agencies participated in the training.

Colorado River Basin Salinity Control Forum Work Group, State Representative Meetings

The Colorado River Basin Salinity Control Forum Work Group has tentatively scheduled meetings of the Work Group State Representatives in late-April to review several ongoing activities. These include preparation of the 2023 Triennial Review of Water Quality Standards for Salinity Colorado River System, development of Salinity Control Program Fact Sheets, and providing recommendations to the U.S. Geological Survey on areas of future salinity control study.

Weather Modification Program

The Board packet includes a comprehensive news article on the State of Utah's weather modification program. California's Six Agency Committee, Central Arizona Water Conservation District, and Southern Nevada Water Authority support an Upper Colorado River Basin weather modification program annually with the Colorado Water Conservation Board, Utah Division of Water Resources, Wyoming Water Development Office. The activities collectively benefit the water supply conditions in the Colorado River Basin. The news article highlights the benefits of the program within the State of Utah and acknowledges the support provided by the Lower Division states. The article can be accessed at https://www.sltrib.com/news/2021/03/28/utah-is-leader-cloud/.

GENERAL ANNOUNCEMENTS AND UPDATES

General Announcements

Hoover Dam Solid Waste Disposal Site

Beginning in January 2020, Board Staff have begun tracking activities associated with a solid waste disposal site located near Hoover Dam. The site was used as an uncontrolled solid waste site during construction activities for the Hoover Dam. From what Hoover Dam employees can ascertain, the original spoil pile was built up from muck, rock, and debris associated with the excavation of the Hoover Dam diversion tunnels in the early 1930s. It is also likely that excavated rock debris from the construction of the Hoover Dam Visitor's Center was deposited in this location. Removal of some debris was completed in 2019, including a BBQ grill frame, folding table, loose sheets of plywood, an air compressor, plastic drums, metal cabinets, wood slats, rubber hose, pipe and other asbestos containing material, orange safety cones, and picnic tables with benches.

The Bureau of Reclamation (Reclamation) reported that during a site inspection in 2018, solid waste was found to be distributed on top of the muck piles at the location. As a result of this finding, Reclamation's Lower Colorado River Basin Region took approximately 10 soil surface samples. The findings were compared to Soil Remediation Standards (SRS) from the Nevada Division of Environmental Protection (NDEP) and the Environmental Protection Agencies (EPA) Preliminary Remediation Goal Table. Samples exceeded reportable concentrations for arsenic, lead, and manganese. Upon determining that there was a reportable release, Reclamation notified NDEP on November 30, 2018. This site is identified by the NDEP through Facility ID Number: H-001021 and Spill Report Number:181130-01. Reclamation collected additional samples for total metals analyses from bottoms of the washes on August 8, 2019. Samples exceeded NDEP Soil Remediation Goals for the following metals: aluminum, antimony, arsenic and manganese. A map of the site is shown in Figure 1.

Reclamation prepared a Work Plan (November 19, 2019) which received concurrence with conditions from NDEP in a letter dated October 6, 2020, and both a draft Background Soil Sampling Plan and draft Water Quality Sampling and Analysis Plan (January 28, 2021) which received a concurrence with conditions from NDEP in a letter dated April 6, 2021. The first Semi-Annual Report from Reclamation (January 28, 2021) includes sampling data from a sand blast grit dumping area that identified the following additional pollutants: lead, cadmium, chromium. The next semi-annual report is due July 28, 2021.

Anticipated future work at the site will be completed in two phases and includes: completing a Hydrologic Assessment, limited removal of solid waste and implementation of erosion control measures. Work is anticipated to be completed by September 2023 subject to funding. In the concurrence with conditions, NDEP recommended that a Hydrologic Assessment model the peak discharges for a design storm (such as a 100-year flood) for portions of the site and that the assessment include, but not be limited to, predicted runoff volumes, velocities, and surface and subsurface pathways. Erosion control measures to be placed on the site include check dams, rock caps, wattles, and berms.

At the October 2019 meeting, the Boulder Canyon Project (BCP) Engineering and Operating Committee agreed to use \$1 million in carry-over funds for Phase I of the project. \$200,000 of the Phase I funding is designated for gathering information. Phase II is anticipated to cost \$4 million to \$5 million. The Phase II funding estimate is subject to change as plans are developed. Funding for Phase II has not yet been secured.

The Colorado River Commission of Nevada, the Metropolitan Water District of Southern California (MWD), Arizona Power Authority, Southern California Edison Company and Los Angeles Department of Water and Power, as Contractors of the BCP submitted a letter to Reclamation regarding the Hoover Dam solid waste site on May 28, 2020, requesting information pertaining to the history of waste disposal at the site, the firing range, groundwater data, and financing for the project. Reclamation has provided some of the information requested to the Engineering and Operating Committee. The necessity for further information gathering is subject to ongoing discussions.

MWD submitted comments on the Draft Work Plan on January 29, 2020, and on both the Background Soil Sample Plan and Water Quality Sampling Plan for Hoover Dam Solid Waste Site on January 6, 2021. NDEP has provided responses to these comments in letters dated October 2, 2020, and January 14, 2021. Reclamation is working to create a revised sampling plan to address these comments. Colorado River Board of California staff will continue to track the progress of this clean-up effort as it progresses.

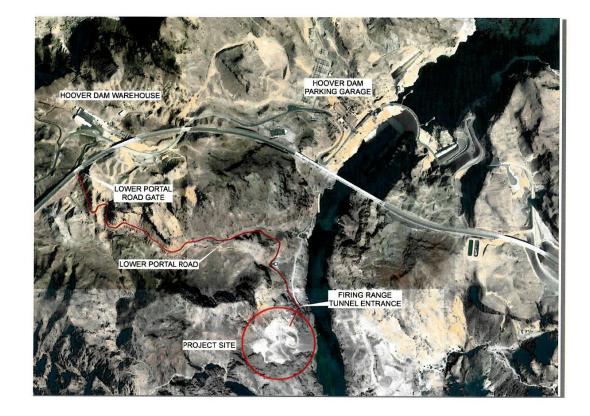


Figure 1. Site Location (Image Source: Work Plan)

Washington, D.C. Report

Passage of \$1.9 Trillion Covid-19 Relief Package

On Thursday, March 11th, the \$1.9 trillion pandemic relief package was signed into law. It also contained funding for water systems and their customers. The legislation makes explicit that \$350 billion in state and local government funding can be used for "necessary investments" in water and sewer. For Indian tribes, there is \$20 million to the Bureau of Indian Affairs for providing potable water and \$10 million to the Indian Health Service for potable water delivery.

Cabinet Secretaries Confirmed

On Wednesday, March 10th, Mr. Michael Regan was confirmed to serve as EPA Administrator by a bipartisan Senate vote of 66 to 34. Regan spent four years as secretary of the North Carolina

Department of Environmental Quality, where his record of fixing environmental problems faced by low-income residents and communities of color drew national attention.

On Monday, March 15th Congresswoman Deb Haaland was confirmed on a 54-40 Senate vote to serve as the Secretary of the Interior. Haaland was elected to Congress in 2018 to serve New Mexico's First Congressional District. An enrolled member of the Pueblo of Laguna and former chairwoman of the New Mexico Democratic Party, Ms. Haaland served throughout 2019 and 2020 as the vice chair of the House Natural Resources Committee and the chairwoman of the Subcommittee on National Parks, Forests and Public Lands.

President's Budget and Appropriations

On April 9th, 2021, President Biden released a 'skinny' version of the Fiscal Year 2022 budget request to Congress; a more detailed budget is due later this Spring. This budget includes an \$11.2 billion request for EPA (21.3% increase over FY 21 enacted levels), \$17.4 billion for the Department of the Interior (16.3% increase over FY 21 enacted levels), and \$6.8 billion for the Army Corps of Engineers (a 12.9% decrease over FY 21 enacted levels).

With respect to western water, the budget supports the Bureau of Reclamation without stating a funding amount. It also states that it provides funding for programs, such as WaterSMART grants, to improve water conservation and energy efficiency. The budget also places an emphasis on drinking water and wastewater infrastructure by providing \$3.6 billion within the EPA for water infrastructure loans and grants (\$625 million increase over 2021 levels).

With the release of this 'skinny budget' Congress will kick off the appropriations process by holding hearings in respective subcommittees. This year's appropriations process will be different as earmarks have been revived and renamed as Community Project Funding. Both the House Interior and Environment, and Energy and Water Appropriations Subcommittees released specific guidance for members of Congress on Community Project Funding.

Infrastructure Package

Last week, President Biden unveiled a wide-ranging \$2 trillion jobs and infrastructure plan. The administration is calling the proposal the American Jobs Plan, and among its many parts it includes \$111 billion for water systems. The plan also calls for \$50 billion to prepare the country's infrastructure for an era of severe floods, droughts, wildfires, and hurricanes.

Water Infrastructure Legislation

The Senate Committee on Environment and Public Works advanced drinking water and wastewater legislation that would authorize up to \$35 billion, subject to appropriations. The bill includes authorization of \$14.7 billion over five years for both the Drinking Water and Clean Water State Revolving Funds. The bill also authorizes funding for lead pipe removal, asset management aid to small systems, workforce training, septic system repairs, and a report on water affordability.

The Senate Indian Affairs Committee advanced the Western Tribal Water Infrastructure Act, which would increase authorized spending on tribal drinking water systems to \$50 million annually (up from \$20 million) and expand the program. The federal government would fund 100 percent of the costs.

Republican Senators have reintroduced the Water Rights Protection Act to prevent the federal government from requiring the transfer of water rights as part of a permit or easement agreement. The bill has been introduced several times in response to a 2011 U.S. Forest Service proposal, later withdrawn, that would have required ski resorts operating on public land to transfer their water rights to the U.S. government.

4/5/2021

LOWER COLORADO WATER SUPPLY REPORT

River Operations

Bureau of Reclamation

ttp://www.usbr.gov/lc/region/g4000/weekly.pdf		Content	Elev. (Feet	7_Der
	PERCENT	1000	above mean	7-Day Release
CURRENT STORAGE	FULL	ac-ft (kaf)	sea level)	(CFS)
LAKE POWELL	36%	8,799	3,566.15	11,500
* LAKE MEAD	40%	10,346	1,084.01	15,700
LAKE MOHAVE	±0° 93%	1,683	642.44	16,000
LAKE HAVASU	92%	572	447.59	11,800
TOTAL SYSTEM CONTENTS **	448	26,252		
As of 4/4/2021				
SYSTEM CONTENT LAST YEAR	52%	30,938		
* Percent based on capacity of 2				
<pre>** TOTAL SYSTEM CONTENTS includes Up ontrol space.</pre>	oper & Lower Colora	ado River Reservoir	rs, less Lake Mead	exclusive floo
Salt/Verde System	76%	1,741		
Painted Rock Dam	0%	0	530.00	C
Alamo Dam	12%	117	1,118.65	25
orecasted Water Use for Calendar Y	ear 2021 (as of d	4/5/2021) (values	in kaf)	
NEVADA			262	
SOUTHERN NEVADA WATER SYSTEM				228
OTHERS				33
CALIFORNIA			4,478	
METROPOLITAN WATER DISTRICT C	F CALIFORNIA			1,069
IRRIGATION DISTRICTS				3,392
OTHERS				18
ARIZONA			2,535	
CENTRAL ARIZONA PROJECT				1,406
OTHERS				1,129
TOTAL LOWER BASIN USE				7,275
DELIVERY TO MEXICO - 2021 (Mex:	co Scheduled Delive	ery + Preliminary Yea	rly Excess ¹)	1,460
OTHER SIGNIFICANT INFORMATION				
UNREGULATED INFLOW INTO LAKE POWEI	L - APRIL FINAL	FORECAST DATED 4/2	2/2021	
		MILLIO	N ACRE-FEET	<pre>% of Normal</pre>
FORECASTED WATER YEAR 2021			4.897	45%
FORECASTED APRIL-JULY 2021			3.200	45%
MARCH OBSERVED INFLOW			0.297	45%
APRIL INFLOW FORECAST			0.400	388
		Upper Colora	do Basin Salt,	/Verde Basin
WATER YEAR 2021 PRECIP TO DATE		76% (1	4.0")	52% (8.7")

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



CY 2021

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 2021	Forecast Use CY 2021	Approved Use ² CY 2021	Excess to Approval CY 2021
ARIZONA CALIFORNIA NEVADA	603,508 840,426 39,919	2,534,980 4,478,364 261,794	2,492,097 4,398,276 338,206	42,883 80,088 -76,412
STATES TOTAL ³	1,483,853	7,275,138	7,228,579	46,559
TOTAL DELIVERIES MEXICO IN SATISFACTION OF TREATY REQUIREMENTS ⁴	425,440	1,421,660		
CREATION OF MEXICO'S RECOVERABLE WATER SAVINGS 5	0	41,000		
CREATION OF MEXICO'S WATER RESERVE 6	36,994	37,340		
TOTAL TO MEXICO IN SATISFACTION OF TREATY REQUIREMENTS	462,434	1,500,000		
TO MEXICO IN EXCESS OF TREATY 7	22,591	38,000		
WATER BYPASSED PURSUANT TO IBWC MINUTE NO. 242 8	32,905	118,165		
TOTAL LOWER BASIN & MEXICO 9	1,964,789	8,852,963		

1,964,789 8,852,963

Incorporates 80 daily reporting stations which may be revised after provisional data reports are distributed by the USGS.

Use to date estimated for users reporting monthly and annually.

These values reflect adjusted apportionments. See Adjusted Apportionment calculation on each state page.

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.

Includes 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; does not include Creation of Mexico's Water Reserve or

Creation of Mexico's Recoverable Water Savings.

Water deferred by Mexico pursuant to Section V 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

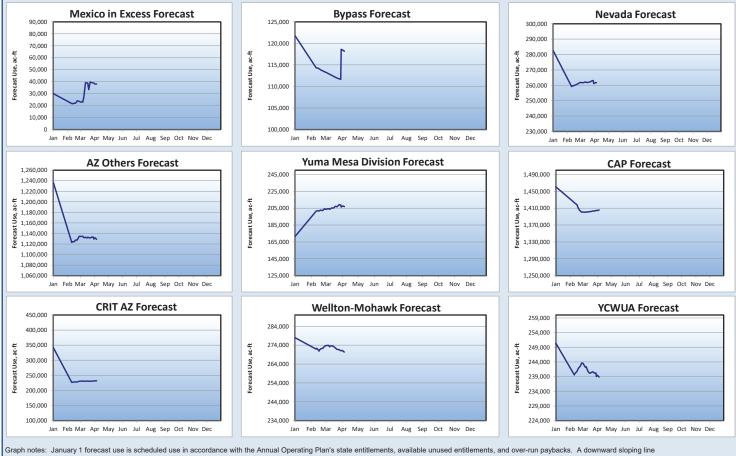
Binational Water Scarcity Contingency Plan Contribution).

Water deferred by Mexico pursuant to Section V of IBWC Minute 323.

Mexico excess forecast is based on the 5-year average for the period 2015-2019.

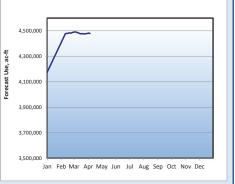
Bypass forecast is based on the average for the period 1990-2019.

Includes States Total, Deliveries to Mexico in Satisfaction of Treaty, To Mexico in Excess of Treaty, and Water Bypassed Pursuant IBWC Minute 242.



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 diversion schedule change or monthly updating of provisional realtime diversions.

California Forecast





ac-ft

orecast Use

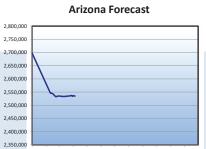
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Use

"e

7,250,000 7,200,000 7,150,000 7,100,000 7,050,000 7.000.000 6,950,000 6,900,000

Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec





— BUREAU OF — RECLAMATION

LOWER COLORADO BASIN REGION CY 2021 NOTE: • Diversions and uses that are pending approval are noted in red

 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.

ARIZONA WATER USERS

FORECAST OF END OF YEAR CONSUMPTIVE USE FORECAST BASED ON USE TO DATE AND APPROVED ANNUAL WATER ORDERS

Arizona Schedules and Approvals

Historic Use Records (Water Accounting Reports)

Historic Use Records (Water Accounting Reports)				-				-
	Use To Date	Forecast Use	Estimated Use	Excess to Estimated Use	Diversion To Date	Forecast Diversion	Approved Diversion	Excess to Approved Diversion
	CY 2021	CY 2021	CY 2021	CY 2021	CY 2021	CY 2021	CY 2021	CY 2021
ARIZONA PUMPERS LAKE MEAD NRA, AZ - Diversions from Lake Mead	3,676 9	15,512 70	15,512 70		5,430 9	22,912 70	22,912 70	0
LAKE MEAD NRA, AZ - Diversions from Lake Mohave	55	224	224		55	224	224	0
DAVIS DAM PROJECT	0	2	2		4	17	17	0
BULLHEAD CITY	1,619	8,067	8,163		2,542	12,561	12,720	-159
MOHAVE WATER CONSERVATION DISTRICT BROOKE WATER LLC	160 75	676 324	676 323		239 113	1,010 487	1,010 485	0 2
MOHAVE VALLEY I.D.D.	3,457	15,802	15,932		6,401	29,262	29,503	-241
FORT MOJAVE INDIAN RESERVATION, AZ	7,723	43,867	44,550		14,302	81,235	82,500	-1,265
GOLDEN SHORES WATER CONSERVATION DISTRICT	68	286	286		101	427	427	0
HAVASU NATIONAL WILDLIFE REFUGE	556	3,395	3,564		4,622	37,949	41,835	-3,886
LAKE HAVASU CITY CENTRAL ARIZONA PROJECT	1,813 404,899	8,914 1,405,799	9,021		2,925 404,899	14,378 1,405,799	14,550	-172
TOWN OF PARKER	86	446	430		171	913	917	-4
COLORADO RIVER INDIAN RESERVATION, AZ	36,671	231,655	226,280		95,937	504,243	509,647	-5,404
EHRENBURG IMPROVEMENT ASSOCIATION	55	232	232		77	325	325	0
	2,268	15,434	15,618		3,172	21,587	21,843	-256
CIBOLA NATIONAL WILDLIFE REFUGE	1,512 978	14,254 3,799	14,264 3,799	-10 0	2,439 1,576	22,989 6,128	23,005 6,128	-16 0
BLM PERMITEES (PARKER DAM to IMPERIAL DAM)	200	844	844	0	308	1,299	1,299	0
CHA CHA, LLC	209	1,329	1,365		322	2,045	2,100	-55
BEATTIE FARMS	119	711	722		182	1,093	1,110	-17
YUMA PROVING GROUND	61	516	516		61	516	516	0
GILA MONSTER FARMS WELLTON-MOHAWK IDD	1,061 46,129	4,908 270,343	5,273 278,000	 -7,657	1,823 76,005	8,463 400,857	9,156 412,965	-693 12,108-
BLM PERMITEES (BELOW IMPERIAL DAM)	40,129	270,343	278,000	-7,037	27	400,837	412,903	-12,100
CITY OF YUMA	2,211	14,519	16,201	-1,682	4,894	25,501	27,500	-1,999
MARINE CORPS AIR STATION YUMA	242	1,304	1,320		242	1,304	1,320	-16
	6	29	29		13	48	48	0
UNIVERSITY OF ARIZONA YUMA UNION HIGH SCHOOL DISTRICT	147 20	885 150	898 150		147 27	885 200	898 200	-13 0
DESERT LAWN MEMORIAL	5	23	23		8	33	33	0
NORTH GILA VALLEY IRRRIGATION DISTRICT	1,390	10,745	11,563		7,778	42,205	44,200	-1,995
YUMA IRRIGATION DISTRICT	8,706	38,628	37,835		14,517	69,370	69,900	-530
YUMA MESA I.D.D. UNIT "B" IRRIGATION DISTRICT	22,561 2,952	157,354 21,619	150,455 20,816		36,010 4,195	242,355 28,832	242,080 29,400	275 -568
FORT YUMA INDIAN RESERVATION	354	1,494	1,494		545	2,299	2,299	0
YUMA COUNTY WATER USERS' ASSOCIATION	50,893	238,854	242,377		76,434	352,221	360,400	-8,179
COCOPAH INDIAN RESERVATION	490	1,666	1,686		500	2,294	2,585	-291
RECLAMATION-YUMA AREA OFFICE RETURN FROM SOUTH GILA WELLS	54	227	227		54	227	227	0
RETORN FROM SOUTH GILA WELLS								
TOTAL ARIZONA	603,508	2,534,980	2,555,314		769,106	3,344,677	3,400,968	
CAP	404,899	1,405,799				1,405,799		
	198,609	1,129,181	1,130,814	0.074		1,938,878	1,976,468	
YUMA MESA DIVISION, GILA PROJECT	32,657	206,727	199,853	6,874		353,930		1
ARIZONA ADJUSTED APPORTIONMENT CALCULATION Arizona Basic Apportionment		2,800,000						
System Conservation Water - Pilot System Conservation Program ²		(360)						
System Conservation Water - Colorado River Indian Tribes (CRIT) ³		(50,000)						
System Conservation Water - Fort McDowell Yavapai Nation (FMYN) ⁴		(13,933)						
System Conservation Water - Mohave Valley I.D.D. (MVIDD) 5		(6,925)						
Creation of Extraordinary Conservation ICS - CRIT (Estimated) 6.8		(4,685)						
Creation of Extraordinary Conservation ICS - GRIC (Estimated) 7.8		(40,000)						
Arizona DCP Contribution 9		(192,000)						
Total State Adjusted Apportionment		2,492,097						
Excess to Total State Adjusted Apportionment		42,883						
Estimated Allowable Use for CAP		1,369,816						

¹ Includes the following water users within the Cibola Valley: Cibola Valley IDD. Arizona Game and Fish Commission, GSC Farms, Red River Land Co., Western Water, and the Hopi Tribe.

² 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.

³ System Conservation Water to be created by CRIT pursuant to the Agreement Among the United States of America, Through the Department of the Interior, Bureau of Reclamation, the State of Arizona, Through the Arizona Department of Water Resources, the Central Arizona Water Conservation District, and the Colorado River Indian Tribes to Fund the Creation of Colorado River System Water Through Voluntary Water Conservation and Reductions in use During Calendar Years 2020-2022. This System Conservation Water will remain in Lake Mead to benefit system storage.

⁴ CAP water being conserved by FMYN pursuant to SCIA No. 20-XX-30-W0688, which will remain in Lake Mead to benefit system storage. In accordance with this SCIA and Section 3.b of the Lower Basin Drought Contingency Plan Agreement (LB DCP Agreement), 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.

⁵ System Conservation Water to be created by MVIDD pursuant to SCIA No. 20-XX-30-W0686, which will remain in Lake Mead to benefit system storage. In accordance with this SCIA and Section 3.b of the LB DCP Agreement, Reclamation intends to apply this water towards the Secretary'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.

⁶ CRIT has been approved to create up to 4,685 AF of Extraordinary Conservation (EC) ICS in 2021. The actual amount of EC ICS created by CRIT will be based on final accounting and verification. ⁷ CAP water being conserved by GRIC in 2021 to create EC ICS. The actual amount of EC ICS created by GRIC will be based on final accounting and verification.

⁸ When combined with the approved EC ICS creation amounts of other ICS Creators in the state of Arizona, the total amount of EC ICS approved for creation in the state of Arizona is 110,185 AF, which exceeds the state's annual creation limit set forth in Section XI.G.3.B.4 of the 2007 Interim Guidelines. In accordance with Section XI.G.3.B.4 and Section IV.B of the *Lower Basin Drought Contingency Operations* (LBOps), the total amount of EC ICS that may be created by the states of Arizona's IC3.B.4 and Section XI.G.3.B.4 of the clower Basin Drought Contingency Arizona's (ES accounts will be limited in accordance with Section IV.C. of LBOps.

⁹ In accordance with Section III.B.1.a of LBOps, the state of Arizona shall make an annual DCP Contribution in the total amount of 192,000 AF. In accordance with the *Agreement Regarding Lower Basin Drought Contingency Plan Obligations*, it is currently anticipated that the required DCP Contribution will be made by the Central Arizona Water Conservation District (CAWCD) through the creation of EC ICS by and reductions in consumptive use. CAWCD has been approved to create up to 60,500 AF of EC ICS in 2021. The actual amount of EC ICS created by CAWCD and credited toward the DCP Contribution will be based on final accounting and verification.

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



CY 2021

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. Dasi 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. Das this column indicates water user has a consumptive use entitlement Dash in

CALIFORNIA WATER USERS

FORECAST OF END OF YEAR CONSUMPTIVE USE FORECAST BASED ON USE TO DATE AND APPROVED ANNUAL WATER ORDERS

California Schedules and Approvals

Historic Use Records (Water Accounting Reports)

WATER USER CALIFORNIA PUMPERS FORT MOJAVE INDIAN RESERVATION, CA CITY OF NEEDLES (includes LCWSP use) METROPOLITAN WATER DISTRICT COLORADO RIVER INDIAN RESERVATION, CA PALO VERDE IRRIGATION DISTRICT YUMA PROJECT RESERVATION DIVISION YUMA PROJECT RESERVATION DIVISION - INDIAN UNIT YUMA PROJECT RESERVATION DIVISION - INDIAN UNIT YUMA PROJECT RESERVATION DIVISION - BARD UNIT YUMA SLAND PUMPERS FORT YUMA INDIAN RESERVATION - RANCH 5 IMPERIAL IRRIGATION DISTRICT ¹ SALTON SEA SALINITY MANAGEMENT	Use To Date <u>CY 2021</u> 347 1,244 290 181,742 1,188 48,992 7,642 386 249 525,408 0	Forecast Use CY 2021 1,466 7,801 1,566 1,068,642 5,014 407,940 46,344 1,630 937 2,560,744 0	Estimated Use <u>CY 2021</u> 1,466 8,996 1,605 5,014 428,620 50,244 1,630 938 2,622,800 0	Excess to Estimated Use <u>CY 2021</u> -	Diversion To Date CY 2021 627 2,313 453 182,354 1,969 147,205 16,491 8,170 8,321 698 452 534,614 0	Forecast Diversion <u>CY 2021</u> 2,646 14,500 2,250 1,071,113 8,307 846,538 90,401 42,493 47,908 2,946 1,695 2,621,348 0	Approved Diversion <u>CY 2021</u> 2,646 16,720 2,261 8,307 865,000 96,884 45,384 51,500 2,946 1,696 2,694,973 0	Excess to Approved Diversion <u>CY 2021</u> 0 -2,220 -11 0 -18,462 -6,483 -2,891 -3,592 0 -1 -1 0
SALTON SEA SALINITY MANAGEMENT	0	0	0	0	0	0	0	
COACHELLA VALLEY WATER DISTRICT OTHER LCWSP CONTRACTORS CITY OF WINTERHAVEN	72,748 125 15	375,481 527 63	379,000 527 63	-3,519 	74,985 218 22	386,439 922 91	390,812 922 91	 0 0
	50	209	209		2,687	11,340	11,340	0
TOTAL CALIFORNIA CALIFORNIA ADJUSTED APPORTIONMENT CALCULATION California Basic Apportionment System Conservation Water - Pilot System Conservation Program ²	840,426	4,478,364 4,400,000 (145)			965,088	5,060,536	5,164,598	

System Conservation Water - Pilot System Conservation Program² IID Creation of Extraordinary Conservation ICS - Stored in Lake Mead (Estimated) ³ MWD Creation of Extraordinary Conservation ICS (Estimated) 4

Total State Adjusted Apportionment

Excess to Total State Adjusted Apportionment

Estimated Allowable Use for MWD

988,554 As shown here, IID's Approved Diversion and Estimated Use values reflect the maximum amount of Colorado River water available to IID in 2021.

² System Consevation 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.

(1,579)

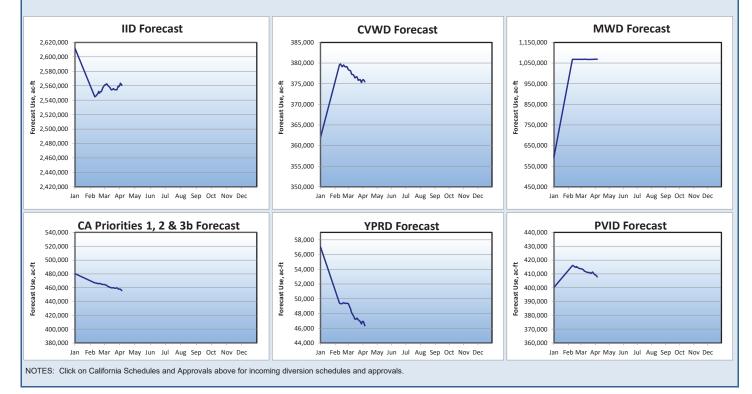
4 398 276

80.088

0

³IID has been approved to create up to 62,000 AF of "Additional Conserved Water" in 2021 for purposes including, but not limited to, the creation of ICS. Due to limitations set forth in the California ICS Agreement, IID may currently only store up to 1,579 AF in its Lake Mead ICS Account. Should IID elect to use "Additional Conserved Water" to create and credit EC ICS to the ICS account of another California contractor through application of Section XI.G.3.B.8 of the 2007 Interim Guidelines, IID must first obtain written agreement of the contractor. The actual amount of "Additional Conserved Water" created by IID in 2021 will be based on final accounting and verification.

⁴ MWD has been approved to create up to 450,000 AF of EC ICS in 2021, less the amount of EC ICS created by IID, and further limited to the amount that, when added to the EC ICS created by the states of Arizona and Nevada, does not exceed 625,000 AF. The actual amount of EC ICS created by MWD will be based on final accounting and verification.





CY 2021

NOTE: • Diversions and uses that are pending approval are noted in red

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 OF END OF YEAR CONSUMPTIVE USE

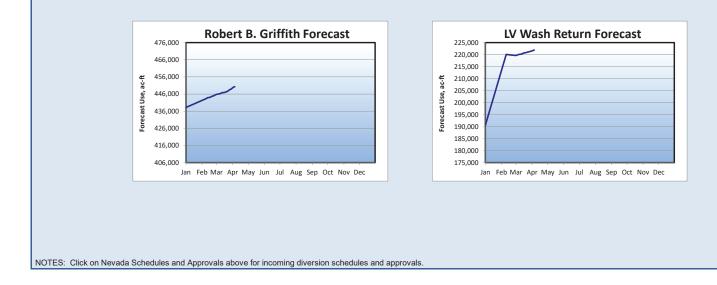
FORECAST BASED ON USE TO DATE AND APPROVED ANNUAL WATER ORDERS

Nevada Schedules and Approvals

Historic Use Records (Water Accounting Reports)

WATER USER ROBERT B. GRIFFITH WATER PROJECT (SNWS) LAKE MEAD NRA, NV - Diversions from Lake Mead LAKE MEAD NRA, NV - Diversions from Lake Mohave BASIC MANAGEMENT INC. CITY OF HENDERSON (BMI DELIVERY) NEVADA DEPARTMENT OF WILDLIFE PACIFIC COAST BUILDING PRODUCTS INC. BOULDER CANYON PROJECT BIG BEND WATER DISTRICT FORT MOJAVE INDIAN TRIBE LAS VEGAS WASH RETURN FLOWS	Use To Date <u>CY 2021</u> 91,466 217 108 1,344 3,735 3 236 41 666 327 -58,224	Forecast Use CY 2021 450,325 1,445 482 7,995 14,227 12 920 172 4,552 3,556 -221,892	Estimated Use <u>CY 2021</u> 440,686 1,500 500 8,208 15,878 12 928 172 4,733 4,020 -221,637	Excess to Estimated Use <u>CY 2021</u> 9,639 0 0 0	Diversion To Date CY 2021 91,466 217 108 1,344 3,735 225 236 71 1,643 489	Forecast Diversion CY 2021 450,325 1,445 482 7,995 14,227 994 920 300 9,550 5,309	Approved Diversion CY 2021 440,686 1,500 8,208 15,878 1,000 928 300 10,000 6,000	Excess to Approved Diversion CY 2021 9,639 -55 -18 -213 -1,651 -8 0 -450 -691
TOTAL NEVADA SOUTHERN NEVADA WATER SYSTEM (SNWS) ALL OTHERS NEVADA USES ABOVE HOOVER NEVADA USES BELOW HOOVER Tributary Conservation (TC) Intentionally Created Surplus (ICS) Southern Nevada Water Authority (SNWA) Creation of TC ICS (Approved) 1 NEVADA ADJUSTED APPORTIONMENT CALCULATION Nevada Basic Apportionment SNWA Creation of Extraordinary Conservation (EC) ICS (Estimated) 2 Total State Adjusted Apportionment Excess to Total State Adjusted Apportionment	39,919 33,242 6,677 38,926 993	261,794 228,433 33,361 253,686 8,108 43,000 300,000 38,206 338,206 -76,412	255,000	9,639	99,534	491,547 450,325 41,222 476,688 14,859	485,000	6,553

¹ SNWA has been approved to create up to 43,000 AF of TC ICS in 2021. The actual amount of TC ICS created by SNWA will be based on final accounting and verification. ² SNWA has been approved to create up to 100,000 AF of EC ICS in 2021. The actual amount of EC ICS created by SNWA will be based on final accounting and verification. The total amount accumulated in Nevada's ICS accounts will be limited in accordance with Section IV.C. of the *Lower Basin Drought Contingency Operations*.

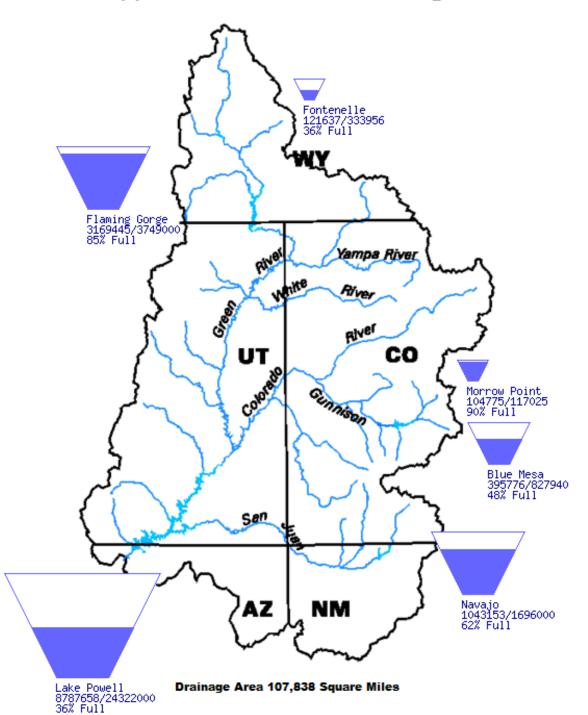


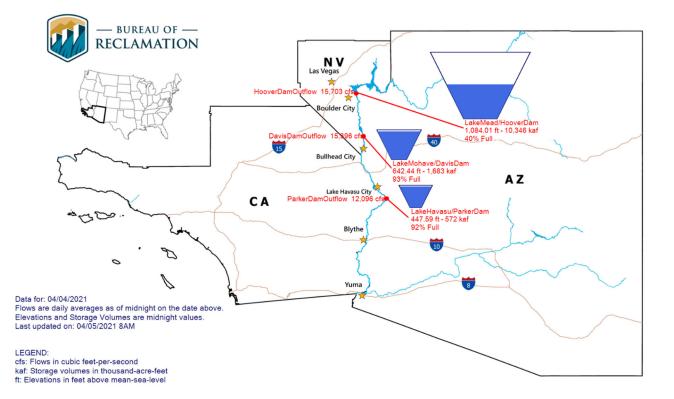
Upper Colorado Region Water Resources Group

River Basin Tea-Cup Diagrams

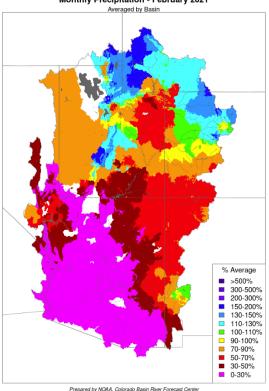
Data Current as of: 04/05/2021

Upper Colorado River Drainage Basin



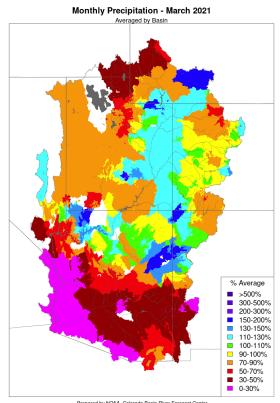


NOAA National Weather Service Monthly Precipitation Map February and March 2021

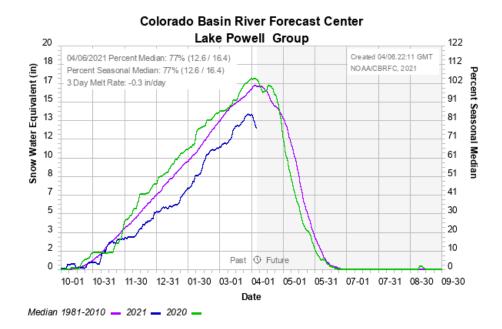


Monthly Precipitation - February 2021

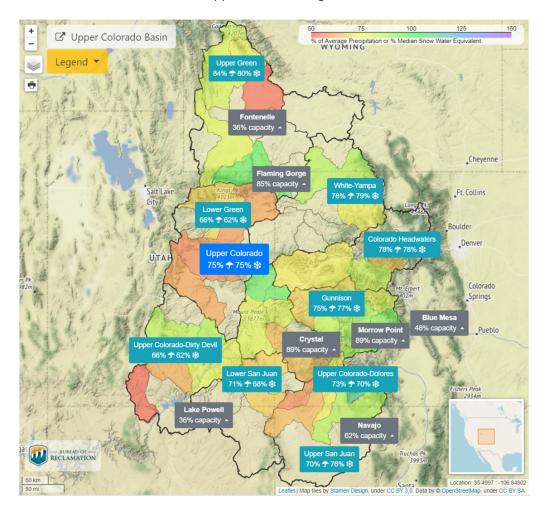
Prepared by NOAA, Colorado Basin River Forecast Center Salt Lake City, Utah, www.cbrfc.noaa.gov



Prepared by NOAA, Colorado Basin River Forecast Center Salt Lake City, Utah, www.cbrfc.noaa.gov

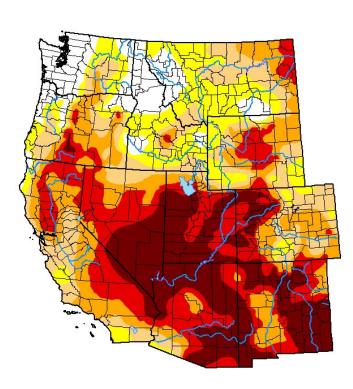


Snow Pack Conditions Map Upper Colorado Region



U.S. Drought Monitor West

April 6, 2021 (Released Thursday, Apr. 8, 2021) Valid 8 a.m. EDT



	Dro	ught Co	onditior	ns (Per	cent Ar	ea)
	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	9.62	90.38	76.04	59.49	40.80	20.71
Last Week 03-30-2021	10.10	89.90	75.22	58.59	39.39	20.56
3 Month s Ago 01-05-2021	11.89	88.11	78.01	64.59	46.50	22.16
Start of Calendar Year 12-29-2020	11.57	<mark>88.4</mark> 3	78.63	65.18	46.49	22.16
Start of Water Year 09-29-2020	8.51	91. 4 9	76.07	54.55	33.11	2.31
One Year Ago 04-07-2020	52.56	47.44	27.90	4.48	0.00	0.00

Intensity:

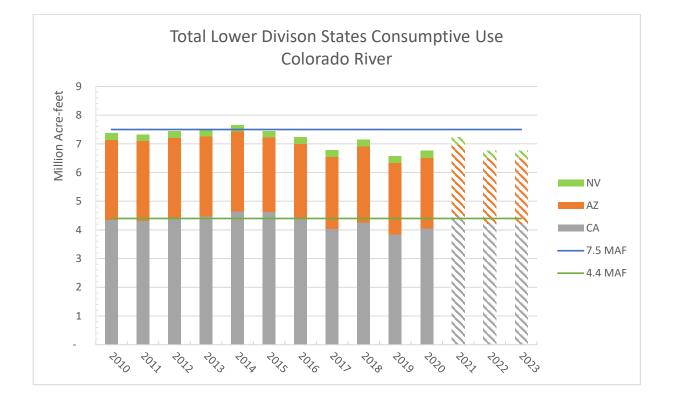
None D0 Abnormally Dry

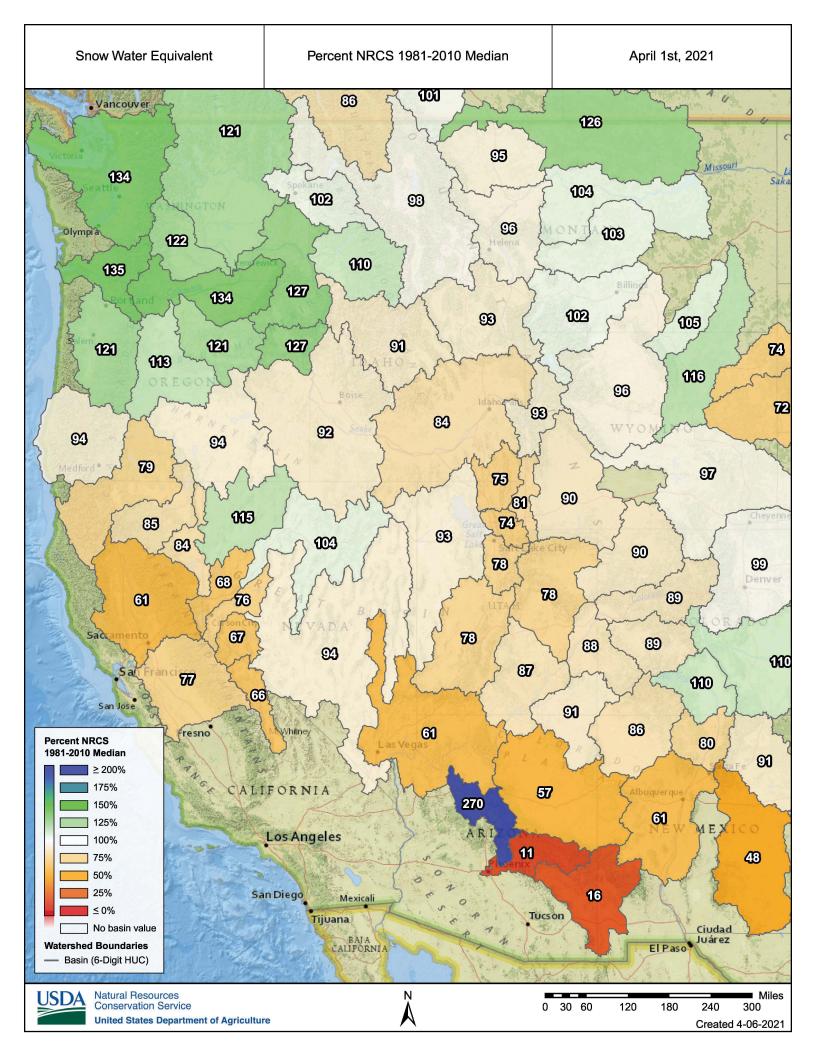
D2 Severe Drought D3 Extreme Drought D1 Moderate Drought D4 Exceptional Drought

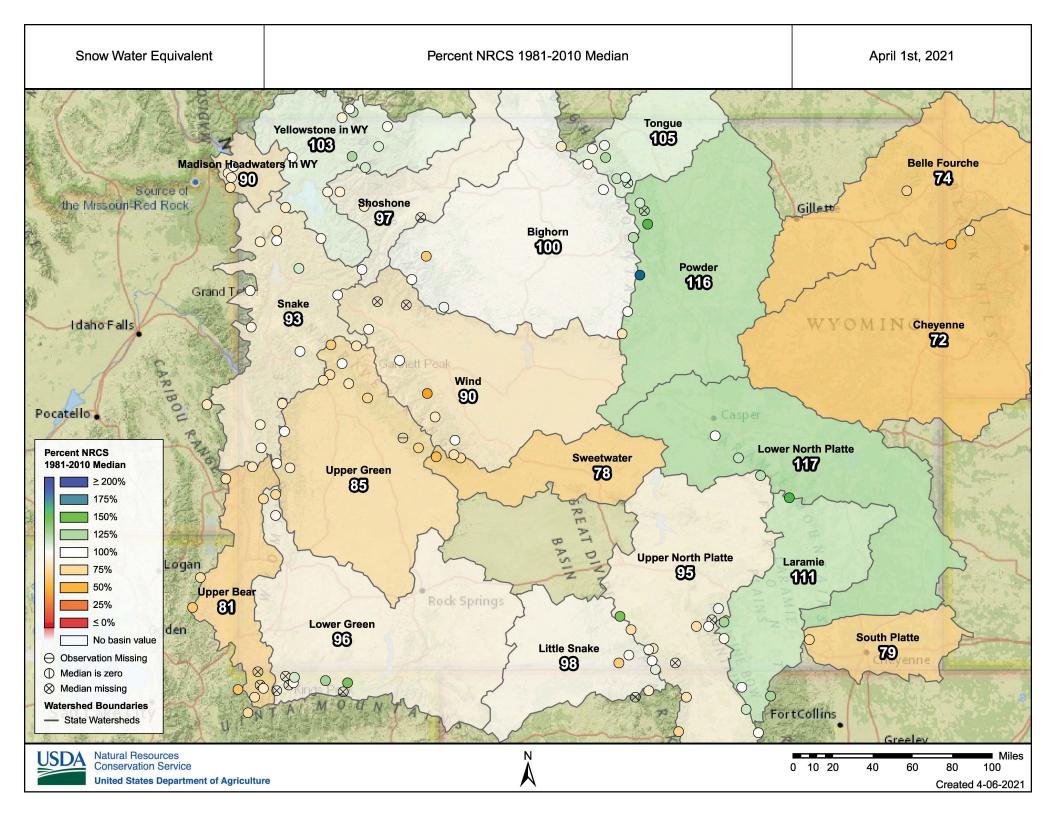
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to https://droughtmonitor.unl.edu/About.aspx

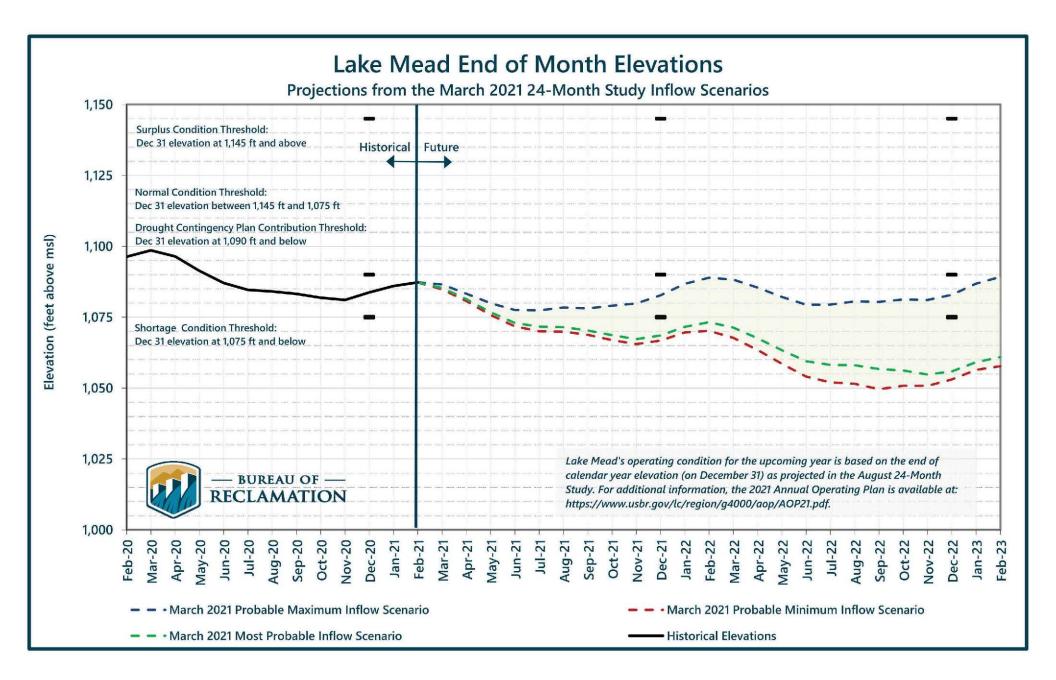
Author: Deborah Bathke National Drought Mitigation Center

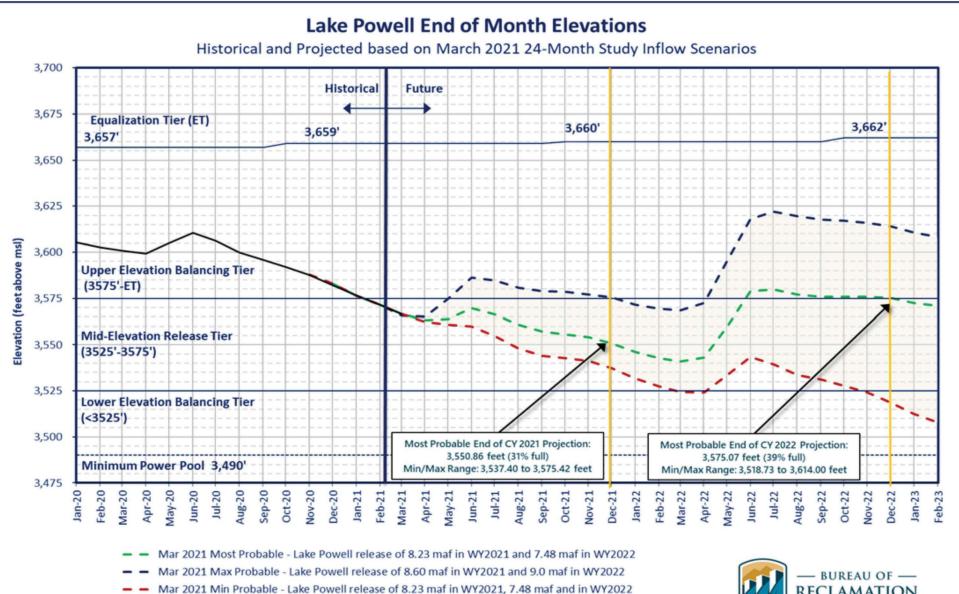






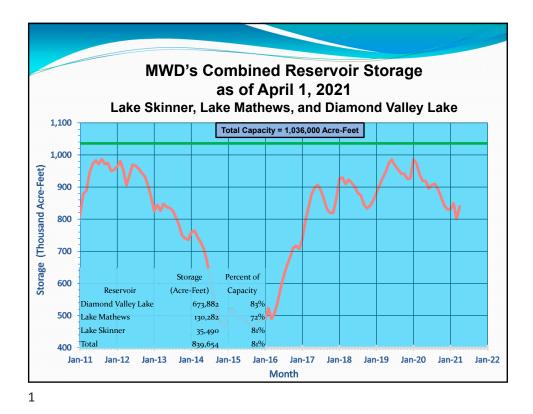


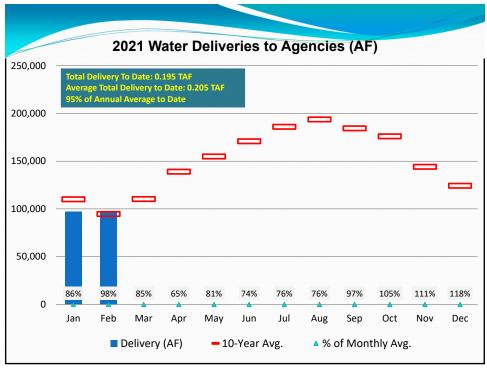


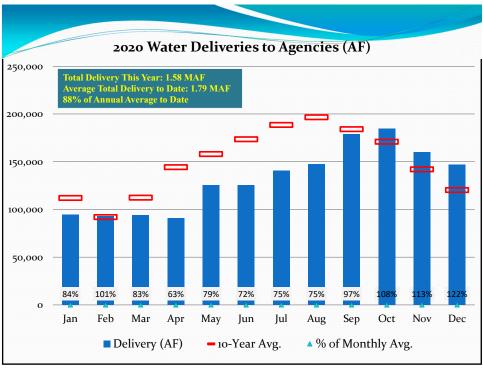


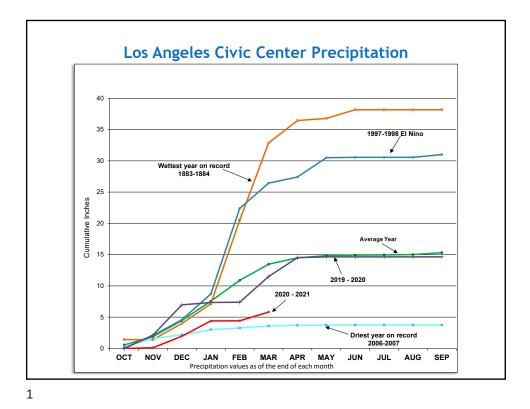
Historical Elevations

RECLAMATION

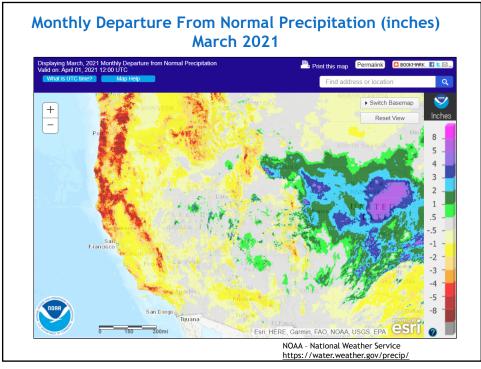


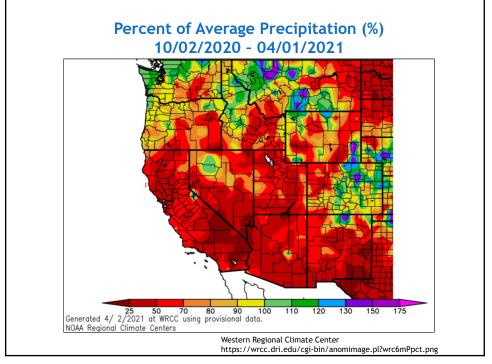


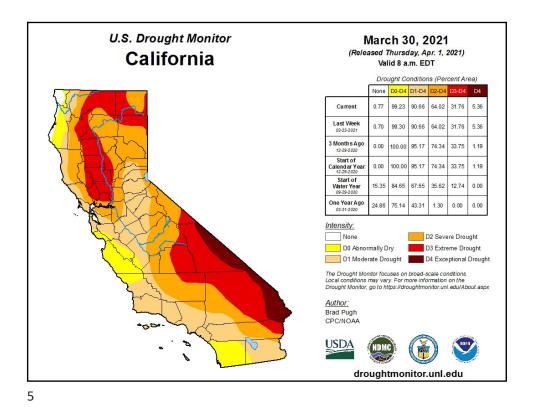




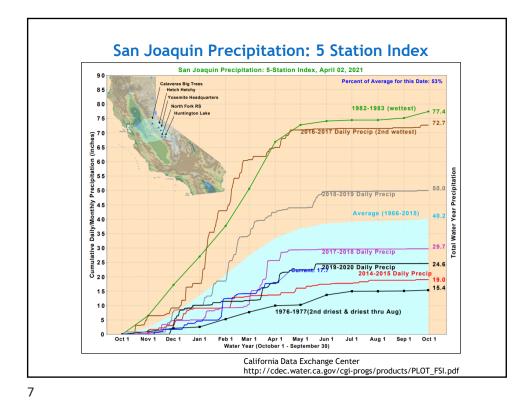
Precipitation at S	-	1, 2020 to March		
	Precip	itation in inches		
Station	Mar	Oct 1 to Mar 31	Average to Date	Percent of Average
San Luis Obispo	0.69	8.30	20.07	41%
Santa Barbara	1.03	5.91	15.88	37%
Los Angeles	1.41	5.82	13.46	43%
San Diego	1.48	4.24	8.86	48%
Blythe	0.00	0.88	2.42	36%
Imperial	0.00	0.00	2.06	0%

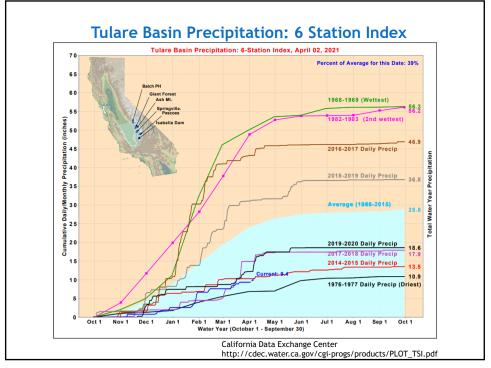




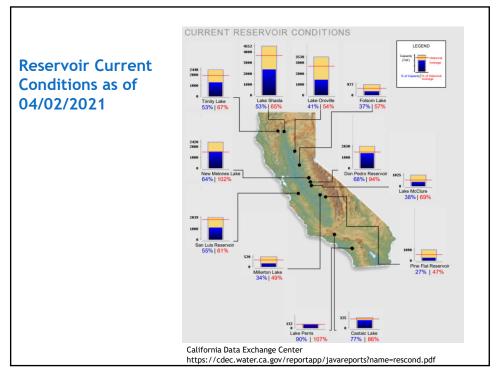


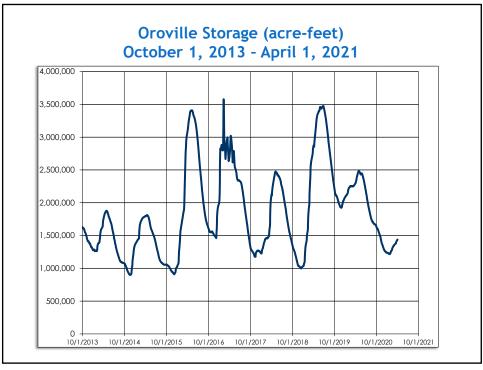
Northern Sierra Precipitation: 8 Station Index Northern Sierra Precipitation: 8-Station Index, April 02, 2021 Mount Shasta City Shasta Dam Mineral Percent of 100 Percent of Average for this Date: 51% 95 Quincy Brush Cr 2016-2017 Daily Precip (wettest) 1982-1983 (2nd wettest) 90 Sierraville RS Blue Canyon 88.5 85 80 (inches) 75 70 2018-2019 Daily Precip 70.7 Precipitation 65 Precipitation 60 55 Average (1966-2015) 51.8 50 ulative Daily/Monthly Year 45 2017-2018 Daily Precip 2014-2015 Daily Precip 37.2 40 35 31.7 Iotal 30 2019-2020 Daily Precip 25 Cum 20 1976-1977(2nd driest & driest thru Aug)_ 19.0 15 10 5 0 Oct 1 Nov 1 Dec 1 Jan 1 Feb 1 Mar 1 Apr 1 May 1 Jun 1 Water Year (October 1 - September 30) Jul 1 Aug 1 Sep 1 Oct 1 California Data Exchange Center http://cdec.water.ca.gov/cgi-progs/products/PLOT_ESI.pdf

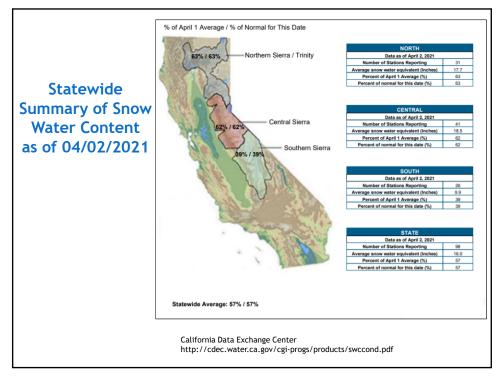


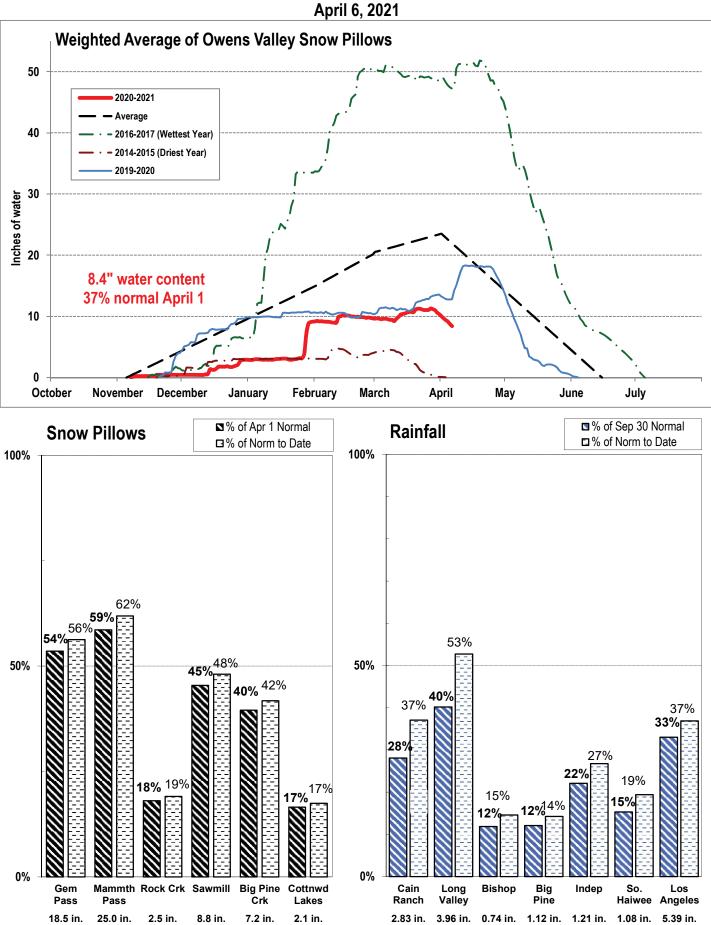


	Comparisor	I OT SWP	water	storage		
		2020 Sto (acre-f	-	2021 Storage (acre-feet)		
		As of	% of	As of	% of	
Reservoir	Capacity	Apr 1	Cap.	Apr 1	Cap.	
Frenchman	55,475	46,272	83%	36,480	66%	
Lake Davis	84,371	63,192	75%	52,072	62%	
Antelope Oroville	22,564 3,553,405	18,779 2,297,840	83% 65%	13,935 1,437,589	62% 40%	
TOTAL North	3,715,815	2,426,083	65%	1,540,076	41%	
Del Valle	39,914	30,698	77%	32,161	81%	
San Luis	2,027,835	1,514,685	75%	1,117,945	55%	
Pyramid	169,901	165,168	97%	166,923	98%	
Castaic	319,247	288,526	90%	249,697	78%	
Silverwood	74,970	68,530	9 1%	67,135	90%	
Perris	132,614	121,790	92 %	118,893	90%	
TOTAL South	2,764,481	2,189,397	79 %	1,752,754	63%	
TOTAL SWP	6,480,296	4,615,480	71%	3,292,830	51%	









Measurement as Inches Water Content; Precipitation totals are cumulative for water year beginning Oct 1

EASTERN SIERRA CURRENT PRECIPITATION CONDITIONS April 6, 2021