

May 28, 2020

## NOTICE OF REGULAR MEETING OF THE COLORADO RIVER BOARD

**NOTICE IS HEREBY GIVEN** pursuant to the call of the Chairperson, Peter Nelson, by the undersigned Executive Director of the Colorado River Board of California that a regular meeting of the Board Members is to be held as follows:

Date:	Wednesday, June 10, 2020
Time:	10:00 a.m.
Place:	Pursuant to Governor Newsom's Executive Order N-29-20 issued on March 17,
	2020, this meeting will be held virtually via Zoom Webinar. Board members will
	receive instructions separately. The public are welcome to attend. Attendees
	may access this meeting using the following:
	Webinar Link: https://us02web.zoom.us/j/83385726694?pwd=dUd0bE1VZE44c3BJMGh6ekJ6TzhIdz09
	Telephone (If not using computer audio): US: +1 669 900 9128, enter
	Meeting ID: 833 8572 6694, followed by #;
	then press # again to connect.

The Colorado River Board of California welcomes any comments from members of the public pertaining to items included on this agenda and related topics. If members of the public wish to make a comment regarding items on the agenda, there are three options for consideration: (1) Public comments may be submitted by electronic mail, and **should be addressed to the Board's Chairman, Mr. Peter Nelson, at crb@crb.ca.gov and will be accepted up until 10:00 a.m. on the day of the meeting;** (2) During the meeting, members of the public may submit comments by participating in the Zoom Webinar and utilizing the "Q&A" feature in the control panel; or (3) By calling into the Zoom Webinar using the telephone number above and pressing \*9 to "Raise Hand." 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 from individuals with disabilities are required, such persons should provide a request at least 24 hours in advance of the meeting by electronic mail to the Board's staff member, Mr. Brian Alvarez at <u>balvarez@crb.ca.gov</u>.

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, or 818-500-1625. A copy of this Notice and Agenda may be found on the Colorado River Board's web page at <u>www.crb.ca.gov</u>.

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

Christopher S. Harris Executive Director

770 Fairmont Avenue, Suite 100 · Glendale, California 91203-1068 · Telephone: (818) 500-1625 · crb.ca.gov

### Regular Meeting COLORADO RIVER BOARD OF CALIFORNIA Wednesday, June 10, 2020 10:00 a.m.

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.

### COVID-19 Notice

The Board is following guidance provided by Governor Newsom, pursuant to Executive Order N-29-20 issued on March 17, 2020, for adhering to the Bagley-Keene Act's open meeting requirements.

### 1. Call to Order

2. **Opportunity for the Public to Address the Board** (Limited to 5 minutes) In accordance with California Government Code, Section 54954.3(a)

### **3.** Administration

- a. Consideration and approval of the Minutes of the meeting held May 13, 2020 (Action)
- b. Presentation of proposed Colorado River Board of California FY-2020/2021 Budget (Action)
- c. Review and consideration of Application for Lower Colorado Water Supply Project water (Action)

### 4. Water Supply and Operations Reports

- a. Colorado River Basin Report
- b. State and Local Reports

### 5. Metropolitan Water District's 2020 Integrated Resources Plan

### 6. Staff Reports Regarding Colorado River Basin Programs

- a. Minute No. 323 Implementation
- b. Salinity Control Program
- c. Glen Canyon Dam Adaptive Management Program
- e. General Announcements

### 7. Executive Session

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 other states or the federal government.

### 8. Other Business

### 9. Future Agenda Items/Announcements

Next Scheduled Board Meeting:

July 15, 2020 10:00 a.m. Webinar

## Minutes of Meeting COLORADO RIVER BOARD OF CALIFORNIA Wednesday, May 13, 2020

A meeting of the Colorado River Board of California (Board) was held virtually on Wednesday, May 13, 2020, using the Zoom Webinar meeting platform.

Board Members and Alternates Present:

David DeJesus (MWD Alternate) Dana B. Fisher, Jr. (PVID) James Hanks (IID) Jeanine Jones (DWR Designee) Henry Kuiper (Public Member) Jim Madaffer (SDCWA)

Board Members and Alternates Absent:

Evelyn Cortez-Davis (LADWP Alternate) Norma Sierra Galindo (IID Alternate)

Others Present:

Steven Abbott Brian Alvarez Justina Gamboa Arce Jim Barrett Robert Cheng JR Echard JB Hamby Christopher Harris Bill Hasencamp Joanna Smith Hoff Michael Hughes Sarai Jimenez Lisa Johansen Lori Jones **Rich Juricich** Eric Katz Tom Levv Lindia Liu

Peter Nelson, Chairman (CVWD) Glen D. Peterson (MWD) John Powell, Jr. (CVWD Alternate) Jack Seiler (PVID Alternate) David Vigil (DFW Alternate) Mark Watton (SDCWA Alternate)

Christopher Hayes (DFW Designee) David R. Pettijohn (LADWP)

Henry Martinez Kara Mathews Aaron Mead Dylan Mohamed Jessica Neuwerth Vic Nguyen Angela Rashid Kelly Rodgers Alex Rodriguez Shanti Rosset Tom Ryan Roberta Saligumba Tina Shields Gary Tavetian Margaret Vick Jay Weiner Jerry Zimmerman

### CALL TO ORDER

Chairman Nelson announced the presence of a quorum and called the meeting to order at 10:05 a.m.

### **OPPORTUNITY FOR THE PUBLIC TO ADDRESS THE BOARD**

Chairman Nelson invited members of the audience to address the Board on items on the agenda or matters related to the Board. Hearing none, Chairman Nelson moved to the next item on the agenda.

### **ADMINISTRATION**

Chairman Nelson asked for a motion to approve the March 11, 2020, meeting minutes. Mr. Fisher moved that the minutes be approved, seconded by Mr. Peterson. By roll-call vote, the minutes were unanimously approved.

### **COLORADO RIVER BASIN WATER REPORTS**

### **Colorado River Basin Report**

Mr. Juricich reported that as of May 11<sup>th</sup>, the water level at Lake Powell was 3,600.61 feet with 11.81 million-acre feet (MAF) of storage, or 49% of capacity. The water level at Lake Mead was 1,094.82 with 11.28 of storage, or 43% of capacity. Mr. Juricich reported that the total system storage was 30.75 MAF, or 52% of capacity, which is about 3 MAF more than system storage at this time last year.

Mr. Juricich reported that as of May 4<sup>th</sup>, the Water Year-2020 forecasted inflow to Lake Powell is 7.40 MAF, or 68% of normal and the Water Year-2020 forecasted April to July inflow to Lake Powell is 4.65, or 65% of normal. For Water Year-2020, the observed April inflow to Lake Powell was 0.48 MAF, or 45% of normal and the forecasted May inflow to Lake Powell is 1.85 MAF, or 79% of normal. The current Basin snowpack is 68% and precipitation to date is 84%.

Mr. Juricich reported that precipitation conditions in March were above average in the Lower Basin, while precipitation conditions in the Upper Basin ranged from below normal to slightly above normal. In April, most of the Basin experienced below average precipitation conditions. Mr. Juricich explained that as of May 4<sup>th</sup>, most of the that Upper Basin snow conditions

were much below normal, with exception to the Upper Green, Yampa and Upper Colorado river basins, which have slightly below to normal snow conditions.

Mr. Juricich reported that as of May 2<sup>nd</sup>, the Brock and Senator Wash regulating reservoirs captured 58,582 AF and 27,483 AF, respectively. He also reported that the excess deliveries to Mexico through May 3<sup>rd</sup>, were 48,520 AF. As of May 4<sup>th</sup>, the total amount of saline drainage water bypassed to the Cienega de Santa Clara in Mexico was 46,568 AF.

### **State and Local Report**

Ms. Jones, representing the California Department of Water Resources (DWR), reported that precipitation conditions in Northern California are below average, while conditions in Southern California are above average. Ms. Jones reported that at the beginning of Water Year-2020, precipitation conditions were good, particularly in November, due to good storm activity which put California ahead of the curve going into the wet season. However, conditions began to turn dry in at the end of January and some areas in Northern California experienced no measurable precipitation for February, noting that precipitation conditions did not improve until March. Ms. Jones further explained that Southern California benefitted from a few significant storms that never tracked to north, resulting in better precipitation conditions in Southern California. She stated due to the precipitation conditions, the State Water Project allocation remains at 15%. The Central Valley Project's agricultural contractors in the Sacramento and San Joaquin Valleys also have an allocation of 15%, adding that the contractors have requested between 55% to 75%. Ms. Jones reported that the Klamath Project, on the California-Oregon border is in its 2<sup>nd</sup> driest year on record in terms of water availability, second only to the drought crisis in 2001. She added that because this dry year is following the wet Water Year-2019, California's reservoir storage is in good shape and will help the water users get through the dry conditions in Northern California.

Mr. Peterson, representing the Metropolitan Water District of Southern California (MWD), reported that the Bard Water District seasonal fallowing program agreement has been signed by both agencies and is now in effect. Chairman Nelson inquired about how MWD's demand has changed during the COVID-19 pandemic and stay-at-home order. Mr. Peterson stated that water demand has fluctuated, and now it is slightly down. He noted that MWD will be received a 15% allocation from the State Water Project and will be accessing some of its water supplies from storage programs in the Central Valley. He added that MWD is projecting about 1.6 MAF of sales, which is a decline from previous months. Mr. Peterson added that local water treatment districts are seeing increases in the volumes of wastewater treated on a daily basis due to the stay-at-home orders rather than using the services in other districts, where many residents work and shop during normal conditions.

Mr. Harris, reporting for Board member Pettijohn of the Los Angeles Department of Water and Power (LADWP), reported that the precipitation conditions in the Eastern Sierra were below average at 38% of April 1<sup>st</sup> normal.

### STATUS OF COLORADO RIVER BASIN PROGRAMS

### Seven Basin States Letter to Secretary Bernhardt Regarding the 7.D. Review Process

Mr. Harris reported that the Bureau of Reclamation (Reclamation) had initiated a review of effectiveness of the 2007 Interim Guidelines, as required by Section XI.G.7.D. of the Guidelines and as directed by Secretary of Interior David Bernhardt at the Colorado River Water Users Association conference in December 2019. Mr. Harris reported that Reclamation had hosted several public webinars to describe the proposed scope and process of the 7.D. Review. Mr. Harris reported that the seven Basin States had developed a proposed letter to submit to the Secretary regarding the 7.D. Review process, which was included in the Board packet. Mr. Harris noted that the letter advocates for inclusion of all Basin stakeholders in the review process, urges a thorough and careful review of the effectiveness of the operational aspects of the Guidelines, and recognition of the efforts undertaken subsequent to the Guidelines, such as the Drought Contingency Plans and implementation of Minutes Nos. 319 and 323. In response to a question from Chairman Nelson about the development of the letter, Mr. Harris noted that the letter had been drafted by Arizona, then modified by a small group of representatives from all of the Basin States, including several from California. Mr. Fisher noted that a seven Basin States letter is important to demonstrate state unity going into the Guidelines review process.

Mr. Harris asked for the Board to approve the letter and authorize Chairman Nelson to sign on behalf of California. Mr. Madaffer moved for approval, seconded by Mr. Fisher, and by unanimous roll-call vote, the motion was approved.

### **Status of Minute No. 323 Implementation**

Mr. Harris reported that the Environmental Work Group met via webinar on May 7<sup>th</sup>. The group discussed the impacts of the coronavirus pandemic on the creation, maintenance, and monitoring of habitat in the Colorado River Delta and will meet again via webinar on June 9<sup>th</sup>. Mr. Harris reported that the Desalination Work Group met via webinar on April 29<sup>th</sup>. The group received an update on a draft report regarding potential desalination opportunities along the Sonoran coast of the Gulf of California. Mr. Harris reported that the Minute Oversight Group expected a presentation on the final study report and key findings at their June meeting.

### **Status of the Salinity Control Program**

Mr. Juricich updated the Board on the status of different activities of the Salinity Control Program. The Paradox Valley Unit (PVU) EIS is currently under confidential review by the cooperating agencies before the draft of the Final EIS becomes available for public review. The cooperating agencies are requesting Reclamation for an extension of the review period. If the review period stays the same, the final EIS would be published for public review in July and the Record of Decision would come out in August.

Mr. Juricich reported that the federal agencies provided updates on different research and program funding activities during the Work Group meetings in April via webinar. The Work Group also spent time walking through the 2020 Triennial Review on salinity standards. This review report comes out every three years and is sent to the U.S. Environmental Protection Agency after the seven states approval.

Mr. Juricich reported that Reclamation has been conducting an in-depth seismic analysis on the earthquake that occurred near the PVU in March 2019 to evaluate the risk of restarting the injection well. The analysis led to the reinitiated injection of that well under a trial basis on April 21<sup>st</sup>. The trial is a six-month test to monitor seismic activity and well head pressure to see if there is any cause of concern. Under this six-month test, the injection rate will be at a 32-percent reduction from prior to the March earthquake, equivalent to about 65,000 tons of salt reduction per year on the Dolores River. In response to a question, Mr. Juricich responded that the PVU EIS has evaluated concentrating the brine before disposal but it is not discussed outside of the EIS. Mr. Harris agrees that the Salinity Work Group should look into the feasibility of concentrating the brine before disposal. Chairman Nelson inquired about the effects of the reduced salt disposal rate on the Lower Basin, specifically whether salinity increases in the January to December timeframe in the Coachella Canal is due in part to the PVU not being operational. Mr. Juricich responded that without PVU there could be up to about a 9 milligram per liter increase in salinity downstream near Imperial Dam.

Mr. Harris reported that the Board's technical staff has been looking into the salinity increase seen in both the All-American and Coachella Canals in the winter timeframe over the past five to seven years. The data did not reveal any evidence of increased salinity in the outflow from the Colorado River Indian Tribe's Main Outfall Drain or the Palo Verde Main Outfall Drain. Water quality and weather station data seems to indicate that the observed salinity increases tend to occur in the Lower Colorado River below the Taylor Ferry gaging station at the southern end of the Palo Verde Valley, just upstream of the beginning of the Cibola Division. Reclamation is leaning towards the explanation that during the winter timeframe when water orders are down and the releases out of Hoover Dam are greatly reduced, bank discharge of local groundwater, and/or local precipitation events are picking up salt from the local geology and washing it into the river. Mr. Harris continued that Board staff is actively looking into this occurrence and may ultimately involve both Reclamation and the U.S. Geological Survey to assist in fully understanding the causes and potential options for mitigation.

Mr. Juricich provided a presentation on the Intrepid Potash, a mining company based in Moab, Utah, that harvests salt products via evaporation ponds since the 1970's. The main product developed is potash, which is used as an agricultural fertilizer, as well as road salts. The company

has expressed an interest in potentially partnering with Reclamation on the PVU operations and potentially recovering some the salt products for commercial resale. The Forum and the Basin States are very interested in following up on this opportunity.

### Status of the Glen Canyon Dam Adaptive Management Program

Board Staff Ms. Neuwerth reported that the Technical Work Group (TWG) for the Glen Canyon Dam Adaptive Management Program met via webinar on April 15-16. The TWG spent most of the meeting discussing the details of the FY21-23 Triennial Budget and Work Plan, which is currently under development. Ms. Neuwerth reported that the proposed budget and work plan will be finalized by the TWG at its June meeting and then reviewed and approved by the Adaptive Management Work Group (AMWG) at its August meeting.

Ms. Neuwerth reported that Macroinvertebrate Production Flows, or "bug flow" releases are currently occurring at Glen Canyon Dam. These low, steady weekend flows are meant to improve insect production in the Grand Canyon, for the benefit of the aquatic food chain and native fish. Ms. Neuwerth noted that bug flows were also conducted in summer 2018 and 2019, with mixed results. Although the coronavirus pandemic will have some impact on monitoring work in the Grand Canyon, Ms. Neuwerth reported that researchers are confident that the delay in sampling will not prevent them from determining the effects of this year's experimental dam releases.

### Status of the Lower Colorado River Multi-Species Conservation Program

Ms. Neuwerth reported that the Steering Committee for the Lower Colorado River Multi-Species Conservation Program (LCR MSCP) met via webinar on April 22<sup>nd</sup>, during which the group approved four minor modifications to the Program. Ms. Neuwerth noted that these changes were the result of experience gained through research and implementation of the Program over the last fifteen years.

Ms. Neuwerth reported that the Work Group for the LCR MSCP met via webinar on May 4-5 to discuss the *Draft implementation Report, FY21 Work Plan and Budget, FY19 Accomplishment Report.* This report looks at a three-year period, including FY19 accomplishments and activities planned for FY21. Ms. Neuwerth reported that habitat acquisition and construction is ahead of schedule, with more than 6,400 acres of the Program's required 8,132 acres already in the ground and the remaining conservation areas identified. Ms. Neuwerth reported that LCR MSCP conservation areas are proving popular for many of the Program's covered species, especially the yellow-billed cuckoo, although the endangered southwestern willow flycatcher remains elusive.

In response to a question from Mr. Peterson, Ms. Neuwerth noted that the Program's 15-Year Anniversary Tour, originally scheduled for March, was postponed due to the coronavirus pandemic.

### ANNOUNCEMENTS

### Water SMART Funding Opportunity

Mr. Juricich reported that Reclamation has released a funding opportunity announcement for communities to take a proactive approach to drought through building projects that increase water supply reliability, improve water management, or provide benefits for fish, wildlife and the environment. Mr. Juricich also noted that eligible applicants for funding include states, tribes, irrigation districts, water districts or other organizations with water or power delivery authority located in the western United States or U.S. territories. Lastly, Mr. Juricich stated that funding is available based on the following timeframes: (1) Up to \$300,000 per agreement is available for a project that can be completed within two years, and (2) Up to \$750,000 per agreement is available for a project that can be completed within three years.

### Colorado River Basin Climate and Hydrology State of the Science

Mr. Juricich reported on the Colorado River Basin Climate and Hydrology State of the Science report. Mr. Juricich stated that the report provides a comprehensive assessment of current and future trends in climate and hydrology within the Basin.

### Washington, D.C. Updates

Mr. Juricich reported that the Senate Environmental & Public Works (EPW) Committee is considering the America's Water Infrastructure Act of 2020 (AWIA) and Drinking Water Infrastructure Act of 2020 (DWIA). Mr. Juricich also reported that both bills have been approved by the EPW Committee and sent out to the full Senate for consideration.

Mr. Juricich reported that The House Transportation and Instructure Committee Chairman Peter DeFazio (D-OR) plans to release his water infrastructure bill later this month.

### Next Scheduled Board Meeting

Finally, Mr. Harris noted that the next meeting of the Colorado River Board would be held on June 10<sup>th</sup> and would also be held virtually using the Zoom Webinar meeting platform.

# **ADJOURNMENT**

With no further items to be brought before the Board, Chairman Nelson adjourned the meeting at 11:17 a.m.



# *Fiscal-Year 2019/2020* Accomplishments Report

Fiscal-Year 2020/2021 Planned Activities Report



# Fiscal-Year 2019/2020 Budget

The budget for the Colorado River Board of California for Fiscal Year 2019/2020 was \$2,308,000, and was adopted by the Board at its June 12, 2019, regularly scheduled meeting.

# Fiscal-Year 2019/2020 Accomplishments

In Fiscal Year 2019/2020 (July 2019 through June 2020), Colorado River Board of California staff participated in the following major programs and activities:

- Continued to provide California representation and coordination associated with the binational implementation of Minute No. 323 with Mexico, including participation in the Minute No. 323 Oversight Group, Salinity Work Group, Hydrology Work Group, Environmental Work Group, and Desalination Work Group;
- Represented California's interests in the ongoing implementation of the Lower Colorado River Multi-Species Conservation Program (LCR MSCP), including ongoing discussions with Reclamation and the California Department of Fish and Wildlife regarding the implementation of habitat restoration activities pursuant to the terms and conditions of the California Endangered Species Act Section 2081 permit for California LCR MSCP participants. The CRB contributed approximately \$17,000 in FY-19/20 for LCR MSCP implementation;
- Represented California's interests in the ongoing implementation of the Glen Canyon Dam Adaptive Management Program, including annual decision-making regarding Glen Canyon Dam operational activities pursuant to implementation of the Long-Term Experimental Management Plan. Continued monitoring and review of activities related to the potential down-listing of the humpback chub and razorback sucker from endangered to threatened;
- Filled the Colorado River Basin Salinity Control Program Forum Chair and Work Group Chair positions with representatives from California agencies (William Hasencamp, MWD as the Forum Chair; and Rich Juricich, CRB as Work Group Chair); Developed and organized consensus comments between the basin states on the Draft EIS and Cooperating Agency Draft Final EIS for the Paradox Valley Unit Salinity Control Project; Organized and developed consensus comments among Board member agencies on the draft Total Maximum Daily Load (TMDL) recommendations for the Colorado River, which resulted in removal of TDS and Nitrate from the recommendations; Continued participation in and contributed annual cost-share funding of approximately \$45,000 for the Colorado River Basin Salinity Control Program and the monitoring of other important water quality programs



and initiatives including the Topock Hexavalent Chromium, Las Vegas Wash Perchlorate, and Moab Uranium Mill-Tailings remediation efforts;

- Participated in the planning and implementation of ongoing weather modification activities in Colorado, Utah, and Wyoming during the 2019/2020 winter season under the newly executed Basin States programmatic funding agreement. California's cost share in FY2019/2020 was approximately \$315,000 provided through the Six Agency Committee;
- Oversaw the ongoing development of a tamarisk management study to determine resources, schedule, and budget needed to implement a large-scale riparian restoration project in the Lower Colorado River basin, and implementation of a salt-cedar beetle monitoring program;
- Continued ongoing annual cost-sharing support for maintenance and operation of Lower Colorado River Basin stream gaging station network with the U.S. Geological Survey. FY-19/20 contributions totaled approximately \$6,500;
- Provided California representation on the Colorado River Climate and Hydrology Workgroup and participated in the review and development of the Colorado River Basin Climate and Hydrology: State of the Science (SOS) Report and various climate and hydrology research & modeling projects. The Final Climate and Hydrology SOS report was published on April 9, 2020, and is available at:

https://wwa.colorado.edu/publications/reports/CRBreport/;

- Initiated development of Board strategy for updating the guidelines for lower basin shortages and coordinated operations for Lake Powell and Lake Mead; and
- Filled vacant Deputy Director, Staff Services Manager I, Staff Services Analyst, and Office Technician positions.

# Fiscal-Year 2020/2021 Planned Activities

In Fiscal Year 2020/2021 (July 2020 through June 2021), Colorado River Board of California staff anticipates participating in the following major programs and activities:

- Continue to participate in ongoing activities associated the implementation of Minute No. 323 and associated workgroups;
- Continue staff participation in programs and activities associated with Colorado River operations, including implementation of the 2007 Interim Guidelines and the Basinwide



Drought Contingency Plans; Reclamation's 7.D. Review of the 2007 Guidelines process; as well as monitoring and evaluating annual water use accounting of mainstream Colorado River water supplies in the Lower Basin;

- Continue participation in the ongoing implementation of the Glen Canyon Dam Adaptive Management Program;
- Continue participation in the Lower Colorado River Multi-Species Conservation Program, including a projected annual contribution of approximately \$17,000 for FY-20/21;
- Continue participation in and cost-share funding of the Colorado River Basin Salinity Control Program and the monitoring of other ongoing water quality programs and activities;
- Oversee completion of the Lower Colorado River Non-Native Vegetation Management Needs and Feasibility assessment;
- Continue participation in the Basin States cost-sharing of winter season weather modification efforts in Colorado, Utah, and Wyoming;
- Continue providing annual financial support to the U.S. Geological Survey to provide effective stream gaging stations in the Lower Colorado Basin;
- Continue participation in the Colorado River Climate and Hydrology Workgroup, which includes planning of the next Climate and Hydrology Symposium, and ongoing development of proposed climate and hydrology research projects;
- Continue to develop and provide effective Colorado River Simulation System modeling expertise, capability and support to the agencies;
- Continue providing effective participation and technical support related to the development of the next set of interim operating guidelines for the Colorado River System slated to begin at the end of 2020; and
- Continue participation by Board staff in advocating California positions at conferences and symposia.

COLORADO RIVER BOARD OF CALIFORNIA FY 2020-21 BUDGET as of 04/20/2020								
DESCRIPTION	Current Year Authorized FY 2019-20	Anticipated Expenditures FY 2019-20	Proposed Budget FY 2020-21	Comments				
Colorado River Board Total Budget	\$ 2,308,000	\$ 2,308,000	\$ 2,400,000					

### 3460 Colorado River Board of California

The Colorado River Board protects California's rights and interests in the water and power resources of the Colorado River system. The Board works with: other Colorado River Basin states (Arizona, Colorado, Nevada, New Mexico, Utah, and Wyoming), federal agencies, other state agencies, six local agencies (Palo Verde Irrigation District, Imperial Irrigation District, Coachella Valley Water District, Metropolitan Water District of Southern California, San Diego County Water Authority, Los Angeles Department of Water and Power), Congress, the courts, and Mexico. Its activities include analyses of engineering, legal and economic matters concerning the Colorado River resources of the seven basin states and the 1944 United States-Mexico Water Treaty obligation to deliver Colorado River water to Mexico.

### **3-YEAR EXPENDITURES AND POSITIONS**

		·		Expenditure	penditures	
	2018-19	2019-20	2020-21	2018-19*	2019-20*	2020-21*
Protection of California's Colorado River Rights and Interests	8.7	8.2	8.2	\$1,645	\$2,399	\$2,400
POSITIONS AND EXPENDITURES (All Programs)	8.7	8.2	8.2	\$1,645	\$2,399	\$2,400
1		2018-19*		2019-20*	202	20-21*
Reimbursements		\$1,	645	\$2,39	99	\$2,400
EXPENDITURES, ALL FUNDS		\$1,	645	\$2,39	99	\$2,400
	and Interests POSITIONS AND EXPENDITURES (All Programs) Reimbursements	Protection of California's Colorado River Rights and Interests POSITIONS AND EXPENDITURES (All Programs)	Protection of California's Colorado River Rights and Interests       8.7       8.2         POSITIONS AND EXPENDITURES (All Programs)       8.7       8.2         2018-19*       2018-19*         Reimbursements       \$1,	Protection of California's Colorado River Rights and Interests       8.7       8.2       8.2         POSITIONS AND EXPENDITURES (All Programs)       8.7       8.2       8.2         Reimbursements       \$1,645	Protection of California's Colorado River Rights and Interests8.78.28.2\$1,645POSITIONS AND EXPENDITURES (All Programs)8.78.28.2\$1,645Leimbursements2018-19*2019-20*	Protection of California's Colorado River Rights and Interests       8.7       8.2       8.2       \$1,645       \$2,399         POSITIONS AND EXPENDITURES (All Programs)       8.7       8.2       8.2       \$1,645       \$2,399         teimbursements       2018-19*       2019-20*       202

### LEGAL CITATIONS AND AUTHORITY

#### DEPARTMENT AUTHORITY

California Water Code, Division 6, Part 5, Sections 12500-12553.

### DETAILED BUDGET ADJUSTMENTS

	2019-20*		2020-21*			
	General Fund	Other Funds	Positions	General Fund	Other Funds	Positions
Workload Budget Adjustments						
Other Workload Budget Adjustments						
<ul> <li>Expenditure by Category Redistribution</li> </ul>	\$-	\$210	-	\$-	\$184	-
<ul> <li>Other Post-Employment Benefit Adjustments</li> </ul>	-	11	-	-	11	-
<ul> <li>Salary Adjustments</li> </ul>	-	41	-	-	41	-
Benefit Adjustments	-	19	-	-	20	-
<ul> <li>Retirement Rate Adjustments</li> </ul>	-	20	-	-	20	-
<ul> <li>Budget Position Transparency</li> </ul>	-	-210	-1.8	-	-184	-1.8
Totals, Other Workload Budget Adjustments	\$-	\$91	-1.8	\$-	\$92	-1.8
Totals, Workload Budget Adjustments	\$-	\$91	-1.8	\$-	\$92	-1.8
Totals, Budget Adjustments	\$-	\$91	-1.8	\$-	\$92	-1.8

### DETAILED EXPENDITURES BY PROGRAM

		2018-19*	2019-20*	2020-21*
	PROGRAM REQUIREMENTS			
2410	PROTECTION OF CALIFORNIA'S COLORADO RIVER RIGHTS AND INTERESTS			
	State Operations:			
0995	Reimbursements	1,645	2,399	2,400
	Totals, State Operations	\$1,645	\$2,399	\$2,400
	TOTALS, EXPENDITURES			

\* Dollars in thousands, except in Salary Range. Numbers may not add or match to other statements due to rounding of budget details.

### 3460 Colorado River Board of California - Continued

	<u>2018-19*</u>	2019-20*	2020-21*
State Operations	1,645	2,399	2,400
Totals, Expenditures	\$1,645	\$2,399	\$2,400

### EXPENDITURES BY CATEGORY

1 State Operations		Positions		E	xpenditure	s
	2018-19	2019-20	2020-21	2018-19*	2019-20*	2020-21*
PERSONAL SERVICES						
Baseline Positions	10.0	10.0	10.0	\$1,005	\$1,005	\$1,005
Budget Position Transparency	-	-1.8	-1.8	-	-210	-184
Other Adjustments	-1.3	-	-	-186	41	41
Net Totals, Salaries and Wages	8.7	8.2	8.2	\$819	\$836	\$862
Staff Benefits	-	-	-	381	635	636
Totals, Personal Services	8.7	8.2	8.2	\$1,200	\$1,471	\$1,498
OPERATING EXPENSES AND EQUIPMENT				\$445	\$928	\$902
TOTALS, POSITIONS AND EXPENDITURES, ALL FUNDS (State Operations)				\$1,645	\$2,399	\$2,400

### DETAIL OF APPROPRIATIONS AND ADJUSTMENTS

1 STATE OPERATIONS	2018-19*	2019-20*	2020-21*
0995 Reimbursements			
APPROPRIATIONS			
Reimbursements	\$1,645	\$2,399	\$2,400
TOTALS, EXPENDITURES	\$1,645	\$2,399	\$2,400
Total Expenditures, All Funds, (State Operations)	\$1,645	\$2,399	\$2,400

### **CHANGES IN AUTHORIZED POSITIONS**

	Positions			Expenditures		
	2018-19	2019-20	2020-21	2018-19*	2019-20*	2020-21*
Baseline Positions	10.0	10.0	10.0	\$1,005	\$1,005	\$1,005
Budget Position Transparency	-	-1.8	-1.8	-	-210	-184
Salary and Other Adjustments	-1.3	-	-	-186	41	41
Totals, Adjustments	-1.3	-1.8	-1.8	\$-186	\$-169	\$-143
TOTALS, SALARIES AND WAGES	8.7	8.2	8.2	\$819	\$836	\$862

\* Dollars in thousands, except in Salary Range. Numbers may not add or match to other statements due to rounding of budget details.

## RESOLUTION of the COLORADO RIVER BOARD OF CALIFORNIA Regarding Potential Applicant to Receive Lower Colorado Water Supply Project Water 2020-1

**WHEREAS**, the United States Congress, on November 14, 1986, enacted the Lower Colorado Water Supply Act (P.L. 99-655) (amended through P.L. 109-103), to authorize the construction and operation of the Lower Colorado Water Supply Project (Project) to provide a limited amount of Colorado River water to be made available on an exchange basis to entities in California, whose lands are located adjacent to the Colorado River, and who either do not have any, or do not have a sufficient, contractual entitlement to use Colorado River water; and

**WHEREAS**, the City of Needles has agreed to assume the administrative responsibility for Project beneficiaries in San Bernardino, Riverside, and Imperial Counties; and

**WHEREAS**, the Colorado River Board provides recommendations to the U.S. Bureau of Reclamation (Reclamation) regarding the eligibility of non-federal applicants to receive Project water; and

**WHEREAS**, the Colorado River Board on September 14, 2001, notified owners of property within the Colorado River flood plain and/or the accounting surface as delineated by the U.S. Geological Survey in California of the availability of Project water; and

**WHEREAS**, 1.0 acre-feet per year of current use and 3.0 acre-feet per year of future use were approved for Parcel Number 0660-151-05-0000 under subcontract #324; and

WHEREAS, Parcel Number 0660-151-05-0000 was subdivided into several parcels in May of 2016; and

WHEREAS, two of the subdivided parcels were sold to new owners; and

**WHEREAS**, one of the new parcel owners requested transfer of 1 acre-feet per year of current use from the subcontract #324; and

**WHEREAS**, the second new parcel owners requested transfer of 1 acre-feet per year of future use from the subcontract #324; and

**WHEREAS**, subcontract #324 would be updated to reflect the new amount of 1.0 acre-feet year of current use and 1.0 acre-feet per year of future use; and

**WHEREAS**, the staff of the Colorado River Board on June 10, 2020, submitted the eligible applicants to the Board for its recommendation;

**NOW, THEREFORE, BE IT RESOLVED THAT** the Colorado River Board hereby recommends a subcontract for Project water be offered to each of the two applicants listed on the attachments and directs the Executive Director to forward the applications to Reclamation with its recommendation with the following provisos:

(1) The applicants appear to be eligible to receive Project water, as shown in the attached table and summarized below:

County	Numbers	Current Use	Future Use	Total Use
	of Parcels	(AF/YR)	(AF/YR)	(AF/YR)
San Bernardino	2	1	1	2

- (2) At the time a subcontract is prepared, the annual quantity of water to be diverted, consumptively used, and returned will be refined to specify quantities of water to be reported in accordance with Article V in the Consolidated Decree in *Arizona v. California, et al.* entered March 27, 2006, (547 U.S. 150 (2006));
- (3) Reclamation should include provisions in the subcontract that the water to be put to reasonable beneficial use within a ten-year period of time, subject to renewal for another ten-year period.

**THE FOREGOING RESOLUTION** is approved and adopted by the Colorado River Board, this 10<sup>th</sup> day of June 2020.

Peter Nelson, Chairman

6/1/2020

### LOWER COLORADO WATER SUPPLY REPORT

River Operations

### Bureau of Reclamation

Questions: BCOOWaterops@usbr.gov				
702) 293-8373				
ttp://www.usbr.gov/lc/region/g4000/weekly.pdf				
		Content	Elev. (Feet	7-Day
	PERCENT	1000	above mean	Release
CURRENT STORAGE	FULL	ac-ft (kaf)	sea level)	(CFS)
LAKE POWELL	50%	12,239	3,605.05	10,100
* LAKE MEAD	<b>42</b> %	10,971	1,091.32	19,400
LAKE MOHAVE	94%	1,703	643.17	17,100
LAKE HAVASU	92%	571	447.51	11,700
TOTAL SYSTEM CONTENTS **	52%	30,955		
As of 5/31/2020				
SYSTEM CONTENT LAST YEAR	48%	28,636		
* Percent based on capacity of 2	6.120 kaf or elev	vation 1.219.6 fe	et.	
** TOTAL SYSTEM CONTENTS includes Up				exclusive flood
ontrol space.				
Salt/Verde System	<b>97</b> %	2,217		
Painted Rock Dam	0%	0	530.00	C
Alamo Dam	15%	149	1,127.72	25
orecasted Water Use for Calendar Y	ear 2020 (as of (	6/1/2020) (values	in kaf)	
NEVADA			249	
SOUTHERN NEVADA WATER SYSTEM				216
OTHERS				33
· ···>				
CALIFORNIA			4,183	
METROPOLITAN WATER DISTRICT O	F CALIFORNIA		-,	848
IRRIGATION DISTRICTS				3,321
OTHERS				14
ARIZONA			2,417	
CENTRAL ARIZONA PROJECT				1,385
OTHERS				1,032
TOTAL LOWER BASIN USE				6,849
DELIVERY TO MEXICO - 2020 (Mexi	co Scheduled Delive	ry + Preliminary Yea	rly Excess <sup>1</sup> )	1,558
OTHER SIGNIFICANT INFORMATION				
UNREGULATED INFLOW INTO LAKE POWEL	L - MAY MID-MONT	H FORECAST DATED	5/18/2020	
			N ACRE-FEET	% of Normal
FORECASTED WATER YEAR 2020			7.152	66%
FORECASTED APRIL-JULY 2020			4.400	618
APRIL OBSERVED INFLOW			0.475	45%
MAY INFLOW FORECAST			1.700	738
		Upper Colora		/Verde Basin
		· · · · · · · · · · · · · · · · · · ·		
WATER YEAR 2020 PRECIP TO DATE		81% (1	8.4")	L01% (18.9")

 CURRENT BASIN SNOWPACK
 54% (1.1")
 NA% (

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



Lower Basin Forecast

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

Arizona Forecast

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

**California Forecast** 

7.100.000

7,000,000

6.900.000

6,800,000

6,700,000 Jse.

6,600,000

6.500.000

2,600,000

2,550,000

2.500.000 ac-ft 2,450,000

> 2,300,000 2,250,000 2,200,000

4.400.000

4,300,000

3,900,000 3,800,000

5 6,400,000 6,300,000 6,200,000 6,100,000

> Jse. 2,400,000

Forecast 2.350.000

ac-ft 4,200,000

Use, 4,100,000

cast 4.000.000

ě

CY 2020

3 269 247

8 531 506

ARIZONA, CALIFORNIA, NEVADA, MEXICO

FORECAST OF END OF YEAR CONSUMPTIVE USE FORECAST BASED ON USE TO DATE AND APPROVED ANNUAL WATER ORDERS <sup>1</sup> (ACRE-FEET)

WATER USE SUMMARY	Use	Forecast	Approved	Excess to
	To Date	Use	Use <sup>2</sup>	Approval
	<u>CY 2020</u>	<u>CY 2020</u>	<u>CY 2020</u>	<u>CY 2020</u>
	974,523	2,416,604	2,402,780	13,824
CALIFORNIA	1,413,409	4,183,422	4,183,422	0
NEVADA	77,527	248,999	248,999	
STATES TOTAL <sup>3</sup>	2,465,459	6,849,025	6,835,201	13,824
ACCOUNTABLE DELIVERIES TO MEXICO TO MEXICO IN SATISFACTION OF TREATY (including downward delivery) <sup>4</sup> TO MEXICO IN EXCESS OF TREATY <sup>5</sup> WATER BYPASSED PURSUANT TO IBWC MINUTE NO. 242 <sup>6</sup>	744,597 696,928 47,669 59,191	1,558,057 1,500,000 58,057 124,424	1,500,000	58,057

TOTAL LOWER BASIN & MEXICO

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.

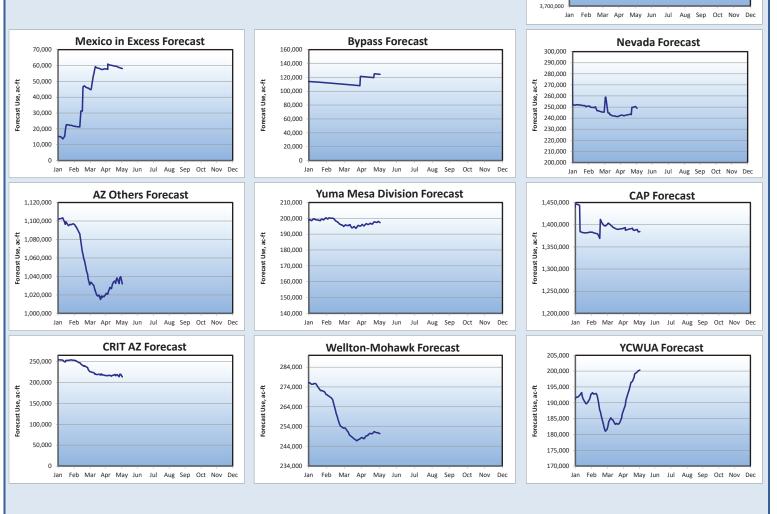
<sup>2</sup> These values reflect adjusted apportionments. See Adjusted Apportionment calculation on each state page.

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 downward adjustment(s) to Mexico's annual delivery schedule for the creation of Mexico's Recoverable Water Savings and/or Mexico's Water Reserve

<sup>5</sup> Mexico excess forecast is based on the 5-year average for the period 2014-2018.

<sup>3</sup> Bypass forecast is based on the average for the period 1990-2018.



Graph notes: January 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 Robert 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.

- BUREAU OF -RECLAMATION

CY 2020

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.

#### 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)				Evenes to				Evene te
	Use To Date	Forecast Use	Estimated Use	Excess to Estimated Use	Diversion To Date	Forecast Diversion	Approved Diversion	Excess to Approved Diversion
WATER USER	CY 2020	CY 2020	CY 2020	CY 2020	CY 2020	CY 2020	CY 2020	CY 2020
ARIZONA PUMPERS	6,263	14,074	14,074		9,636	21,654	21,654	0
LAKE MEAD NRA, AZ - Diversions from Lake Mead	20	80	80		20	80	80	0
LAKE MEAD NRA, AZ - Diversions from Lake Mohave	85	210	210		85	210	210	0
DAVIS DAM PROJECT	1	2	2		7	15	15	0
BULLHEAD CITY	2,614	7,754	8,122		4,132	12,152	12,720	-568
MOHAVE WATER CONSERVATION DISTRICT	292	656	656		436	979	979	0
BROOKE WATER LLC	118	318	323		177	476	484	-8
MOHAVE VALLEY IDD	5.027	15,602	16.516		9.311	28,894	30,585	-1,691
FORT MOJAVE INDIAN RESERVATION, AZ	12,218	39,218	44,550		22,626	72,626	82,500	-9,874
GOLDEN SHORES WATER CONSERVATION DISTRICT	124	278	278		186	417	417	0
HAVASU NATIONAL WILDLIFE REFUGE	1,318	3,275	3,563		10,979	33,939	41,820	-7,881
LAKE HAVASU CITY	2,864	8,537	8,928		4,621	13,771	14,400	-629
CENTRAL ARIZONA PROJECT (CAP)	572,133	1,384,618			572,133	1,384,618		
TOWN OF PARKER	129	419	433		301	888	916	-28
COLORADO RIVER INDIAN RESERVATION, AZ	67,805	213,385	246,946		164,343	466,326	512,102	-45,776
EHRENBURG IMPROVEMENT ASSOCIATION	101	228	228		142	319	319	0
CIBOLA VALLEY <sup>1</sup>	4,511	13,969	15,219		6,307	19,527	21,270	-1,743
CIBOLA NATIONAL WILDLIFE REFUGE	3,773	14,264	14,264	0	6,085	23,005	23,005	0
IMPERIAL NATIONAL WILDLIFE REFUGE	1,560	3,799	3,799	0 0	2,515	6,128	6,128	0
BLM PERMITEES (PARKER DAM to IMPERIAL DAM)	336	756	756	0	518	1,163	1,163	0
CHA CHA, LLC	358	1,254	1,365		553	1,931	2,100	-169
BEATTIE FARMS	206	679	722		315	1,044	1,110	-66
YUMA PROVING GROUND	148	464	474		148	464	474	-10
GILA MONSTER FARMS	1,861	4,474	5,257		3,212	7,719	9,156	-1,437
WELLTON-MOHAWK IDD	96,596	250,374	278,000	-27,626	143,208	375,048	412,965	-37,917
BLM PERMITEES (BELOW IMPERIAL DAM)	29	66	66	0	45	102	102	0
CITY OF YUMA	5,028	14,815	16,401	-1,586	9,316	25,816	27,500	-1,684
MARINE CORPS AIR STATION YUMA	462	1,304	1,360		462	1,304	1,360	-56
UNION PACIFIC RAILROAD	11	29	29		20	48	48	0
UNIVERSITY OF ARIZONA	218	793	896		218	793	896	-103
YUMA UNION HIGH SCHOOL DISTRICT	40	138	150		53	184	200	-16
DESERT LAWN MEMORIAL	9	20	20		12	28	28	0
NORTH GILA VALLEY IRRRIGATION DISTRICT	3,933	10,651	12,165		15,866	41,066	44,200	-3,134
YUMA IRRIGATION DISTRICT	16,441	37,908	38,701		28,555	68,255	71,700	-3,445
YUMA MESA IDD	52,075	148,791	143,893		71,231	223,361	239,280	-15,919
UNIT "B" IRRIGATION DISTRICT	6,019	20,043	20,888		7,194	25,894	29,400	-3,506
FORT YUMA INDIAN RESERVATION	666	1,497	1,497		1,023	2,298	2,298	0
YUMA COUNTY WATER USERS' ASSOCIATION	108,507	200,331	186,507		153,754	297,754	282,000	15,754
COCOPAH INDIAN RESERVATION	578	1,428	1,651		627	1,927	2,530	-603
RECLAMATION-YUMA AREA OFFICE	46	103	103		46	103	103	0
RETURN FROM SOUTH GILA WELLS								
TOTAL ARIZONA	974,523	2,416,604	2,474,092		1,250,418	3,162,326	3,283,217	
010								
CAP	572,133	1,384,618	4 000 000			1,384,618	4 000 045	
ALL OTHERS	402,390	1,031,986	1,089,092			1,777,708	1,898,217	
YUMA MESA DIVISION, GILA PROJECT	72,449	197,350	171,610	25,740		332,682		I
ARIZONA ADJUSTED APPORTIONMENT CALCULATION								
Arizona Basic Apportionment		2,800,000						
System Conservation Water - Pilot System Conservation Program <sup>2</sup>		(400)						
System Conservation Water - Colorado River Indian Tribes (CRIT) <sup>3</sup>		(50,000)						
System Conservation Water - Fort McDowell Yavapai Nation (FMYN) 4		(10,000)						
Creation of Extraordinary Conservation ICS - CRIT (Estimated) 5,7		(3,736)						
Creation of Extraordinary Conservation ICS - MVIDD (Estimated) <sup>6,7</sup>		(6,137)						
Arizona DCP Contribution <sup>8</sup>		(192,000)						
CAWCD -Voluntary Contribution to Lake Mead (Estimated)	-	(134,947)						
Total State Adjusted Apportionment		2,402,780						
Excess to Total State Adjusted Apportionment		13,824						
Estimated Allowable Use for CAP		1,519,565						

<sup>1</sup> Includes the following water users within the Cibola Valley: Cibola Valley IDD, Arizona Game and Fish Commission, GSC Farm, LLC, Red River Land Company, LLC, Western Water, LLC, and the Hopi Tribe.

<sup>2</sup> 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.

<sup>3</sup> 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.

<sup>4</sup> CAP water being conserved by FMYN pursuant to SCIA No. 19-XX-30-W0658, 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, 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.

<sup>5</sup> CRIT has been approved to create up to 3,736 AF of Extraordinary Conservation (EC) ICS in 2020. The actual amount of EC ICS created by CRIT will be based on final accounting and verification. <sup>6</sup> MVIDD has been approved to create up to 6,137 AF of EC ICS in 2020. The actual amount of EC ICS created by MVIDD will be based on final accounting and verification.

<sup>7</sup> 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 approximately 153,000 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, California, and Nevada in 2020 will be limited to 625,000 AF.

<sup>8</sup> 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 through reductions in consumptive use by the Central Arizona Water Conservation District.



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 this column indicates water user has a consumptive use entitlement.

Dash in

LOWER COLORADO BASIN REGION CY 2020

#### 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	Use To Date <u>CY 2020</u> 755 2,422 428 176,451 1,439 113,284 15,218	Forecast Use CY 2020 1,697 6,468 1,437 848,029 3,233 375,496 40,606	Estimated Use <u>CY 2020</u> 1,697 8,996 1,605 3,233 419,768 50,582	Excess to Estimated Use <u>CY 2020</u>        	Diversion To Date <u>CY 2020</u> 1,371 4,503 755 177,679 2,383 278,650 31,578 16,019	Forecast Diversion <u>CY 2020</u> 3,081 12,023 2,176 850,831 5,355 807,650 82,954 38,695	Approved Diversion <u>CY 2020</u> 3,081 16,720 2,261 5,355 856,000 96,858 46,058	Excess to Approved Diversion CY 2020 0 -4,697 -85  0 -48,350 -13,904 -7,363
YUMA PROJECT RESERVATION DIVISION - BARD UNIT YUMA ISLAND PUMPERS FORT YUMA INDIAN RESERVATION - RANCH 5 IMPERIAL IRRIGATION DISTRICT <sup>1</sup> SALTON SEA SALINITY MANAGEMENT COACHELLA VALLEY WATER DISTRICT OTHER LCWSP CONTRACTORS CITY OF WINTERHAVEN CHEMEHUEVI INDIAN RESERVATION	974 252 976,470 0 125,314 286 28 88	2,188 692 2,532,360 0 370,314 642 63 197	 2,188 832 2,640,300 0 394,000 642 63 197	  -107,940 0 -23,686   	15,559 1,759 453 987,192 0 132,893 469 43 5,046	44,259 3,954 1,247 2,591,154 0 386,274 1,054 97 11,340	50,800 3,954 1,501 2,715,352 0 406,654 1,054 97 11,340	-6,541 0 -254   0 0 0
TOTAL CALIFORNIA CALIFORNIA ADJUSTED APPORTIONMENT CALCULATION California Basic Apportionment System Conservation Water - Pilot System Conservation Program <sup>2</sup> IID Creation of Extraordinary Conservation ICS - Stored in Lake Mead (Est IID Creation of Additional Conserved Water (Estimated) <sup>4</sup> MWD Creation of Extraordinary Conservation ICS (Estimated) <sup>5</sup> Total State Adjusted Apportionment Excess to Total State Adjusted Apportionment Estimated Allowable Use for MWD	1,413,409 imated) <sup>3</sup>	4,183,422 4,400,000 (145) (1,579) (23,421) (191,433) 4,183,422 0 1,039,462			1,624,774	4,759,190	4,980,930	

<sup>1</sup>As shown here, IID's Approved Diversion and Estimated Use values reflect the maximum amount of Colorado River water available to IID in 2020.

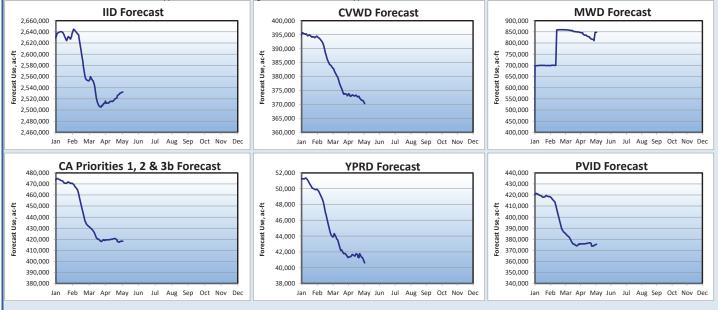
2 System Consevation Water to be conserved by the City of Needles pursuant to System Conservation Implementation Agreement No. 15-XX-30-W0596, executed under the Pilot System Conservation Program. This water will remain in Lake Mead to benefit system storage.

<sup>3</sup>IID has been approved to create up to 62,000 AF of Extraordinary Conservation (EC) ICS in 2020; however, due to limitations set forth in the California ICS Agreement, may only store up to 1,579 AF in its Lake Mead ICS Account. Creation and storage of EC ICS by IID in excess of 1,579 AF will require an executed amendment to the California ICS Agreement, which has not occurred as of the date of this forecast. The actual amount of EC ICS created by IID and stored in its Lake Mead ICS Account will be based on final accounting and verification.

<sup>4</sup> In its CY 2020 water order, IID has indicated that it intends to create up to a total of 25,000 AF of "Additional Conserved Water" for purposes including, but not limited to, the creation of ICS for storage in Lake Mead. As noted above, IID may only use up to 1,579 AF of "Additional Conserved Water" for the creation and storage of EC ICS in its Lake Mead ICS Account. Storage of "Additional Conserved Water" as EC ICS in excess of this amount will require an executed amendment to the California ICS Agreement, which has not occurred as of the date of this forecast. The actual amount of "Additional Conserved Water" created by IID in 2020 will be based on final accounting and verification

<sup>5</sup>MWD has been approved to create up to 450,000 AF of EC ICS in 2020, 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.

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





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.

LOWER COLORADO BASIN REGION CY 2020

NEVADA WATER USERS

FORECAST OF END OF YEAR CONSUMPTIVE USE

FORECAST BASED ON USE TO DATE AND APPROVED ANNUAL WATER ORDERS

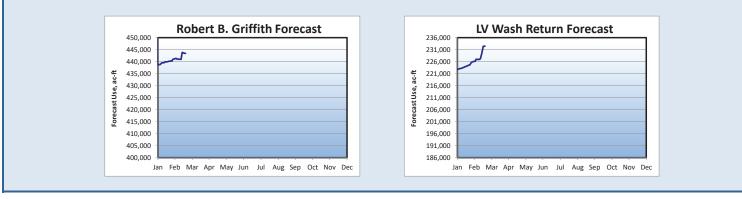
Nevada Schedules and Approvals

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	Use To Date <u>CY 2020</u> 161,946 333 121 2,246 2,871 5 354 77 1,074 710	Forecast Use <u>CY 2020</u> 438,387 1,276 404 7,579 14,819 12 957 172 4,321 3,055	Estimated Use <u>CY 2020</u> 1,500 500 8,208 15,878 12 928 172 4,822 4,020	Excess to Estimated Use <u>CY 2020</u>   0  0   0	Diversion To Date <u>CY 2020</u> 161,946 333 121 2,246 2,871 349 354 133 2,357 1,061	Forecast Diversion <u>CY 2020</u> 438,387 1,276 404 7,579 14,819 990 957 300 8,776 4,561	Approved Diversion <u>CY 2020</u> 1,500 500 8,208 15,878 1,000 928 300 10,000 6,000	Excess to Approved Diversion <u>CY 2020</u>  -224 -96 -629 -1,059  29 0 -1,224 -1,239
LAS VEGAS WASH RETURN FLOWS	-92,210	-221,983	-226,075					
TOTAL NEVADA SOUTHERN NEVADA WATER SYSTEM (SNWS) ALL OTHERS NEVADA USES ABOVE HOOVER NEVADA USES BELOW HOOVER	77,527 69,736 7,791 75,743 1,784	248,999 216,404 32,595 241,623 7,376	253,997	0	171,771	478,049 438,387 39,662 464,712 13,337	488,346	-4,642
Tributary Conservation Intentionally Created Surplus (ICS) Southern Nevada Water Authority (SNWA) Creation of Tributary Conservat NEVADA ADJUSTED APPORTIONMENT CALCULATION Nevada Basic Apportionment SNWA Creation of Extraordinary Conservation (EC) ICS (Estimated) <sup>2</sup> Total State Adjusted Apportionment Excess to Total State Adjusted Apportionment	ion ICS (Approv	/ed) <sup>1</sup>	43,000 300,000 (51,001) 248,999 0					

<sup>1</sup> SNWA has been approved to create up to 43,000 AF of TC ICS in 2020. The actual amount of TC ICS created by SNWA will be based on final accounting and verification. <sup>2</sup> SNWA has been approved to create up to 100,000 AF of EC ICS in 2020. The actual amount of EC ICS created by SNWA will be based on final accounting and verification.

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

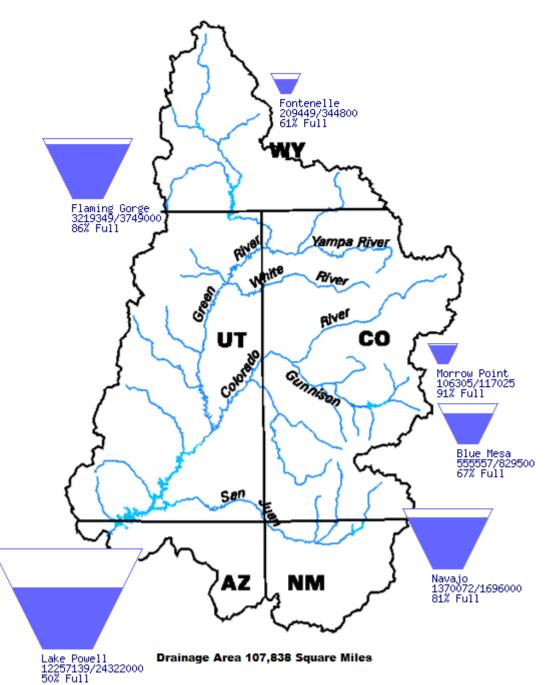


# **Upper Colorado Region Water Resources Group**

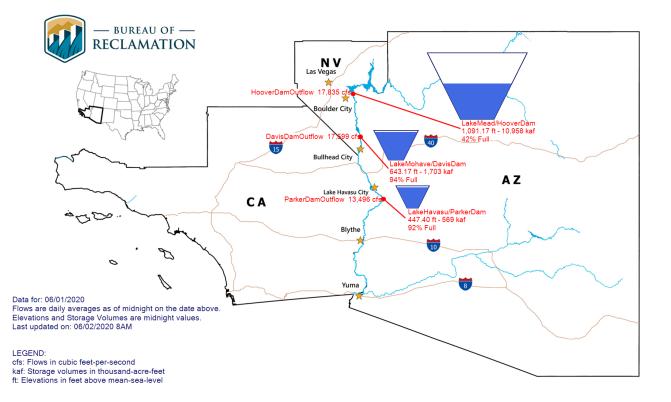
**River Basin Tea-Cup Diagrams** 

Data Current as of: 06/01/2020

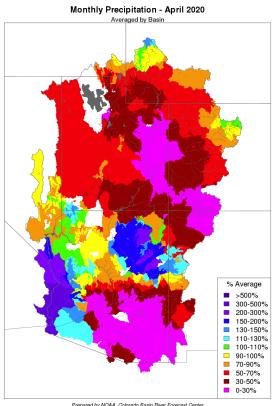
Upper Colorado River Drainage Basin



# Lower Colorado River Teacup Diagram



### NOAA National Weather Service Monthly Precipitation Map April and May 2020

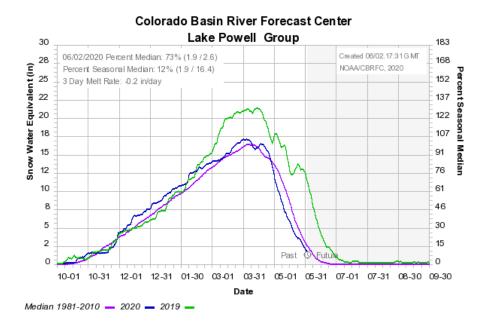


Prepared by NOAA, Colorado Basin River Forecast Center Salt Lake City, Utah, www.cbrfc.noaa.gov

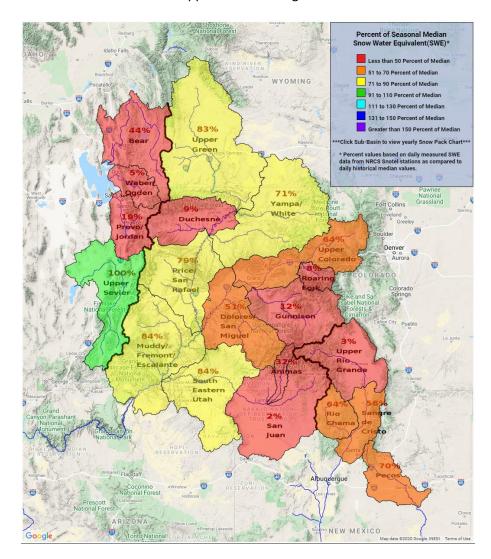
Averaged by Basin % Average % Average >500% 300-500% 200-300% 150-200% 110-130% 100-110% 90-100% 70-90% 50-70% 30-50% 0-30%

Monthly Precipitation - May 2020

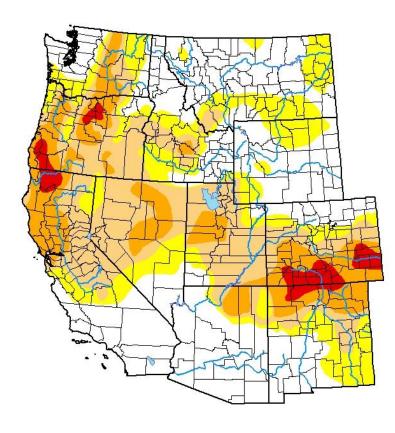
Prepared by NOAA, Colorado Basin River Forecast Center Salt Lake City, Utah, www.cbrfc.noaa.gov



Snow Pack Conditions Map Upper Colorado Region



# U.S. Drought Monitor West



## May 26, 2020

(Released Thursday, May. 28, 2020) Valid 8 a.m. EDT

	Drought Conditions (Percent Area)						
	None	D0-D4	D1-D4	D2-D4	D3-D4	D4	
Current	41.59	58.41	39.36	16.58	2.96	0.00	
Last Week 05-19-2020	40.85	59.15	38.83	16.27	3.06	0.00	
3 Month s Ago 02-25-2020	53.17	46.83	20.48	3.02	0.00	0.00	
Start of Calendar Year 12-31-2019	59.17	40.83	18.17	7.12	0.00	0.00	
Start of Water Year 10-01-2019	68.40	31.60	16.32	3. 16	0.00	0.00	
One Year Ago 05-28-2019	87.15	12.85	5.41	0.00	0.00	0.00	

### Intensity:



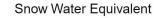
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to https://droughtmonitor.unl.edu/About.aspx

#### <u>Author:</u> Curtis Riganti

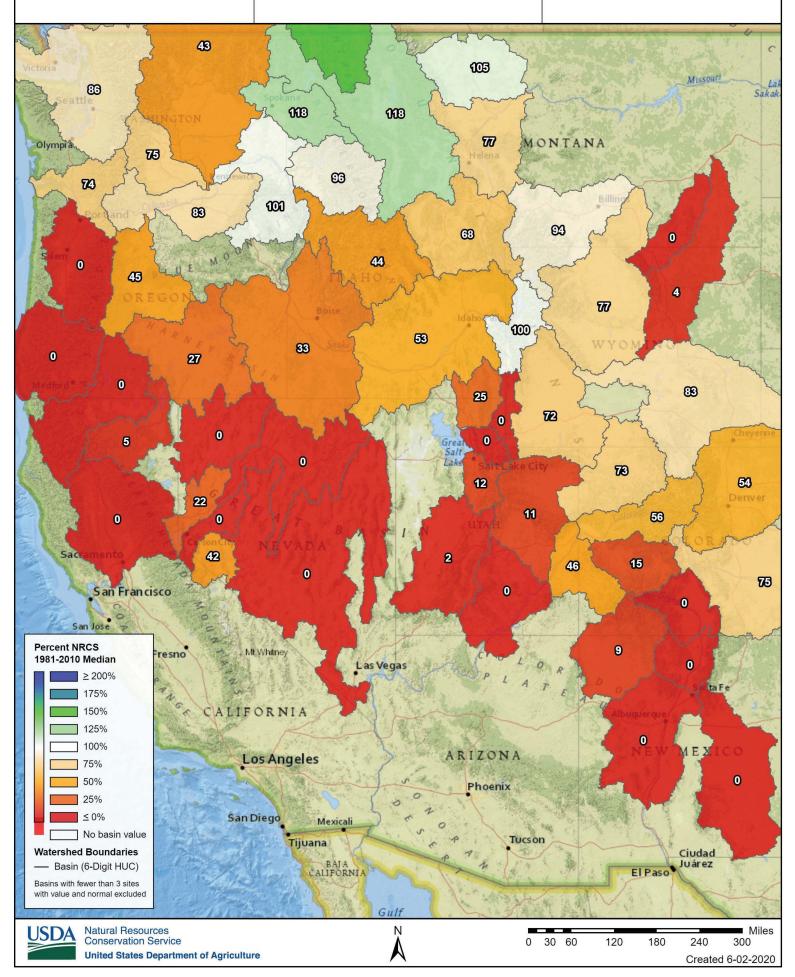
National Drought Mitigation Center



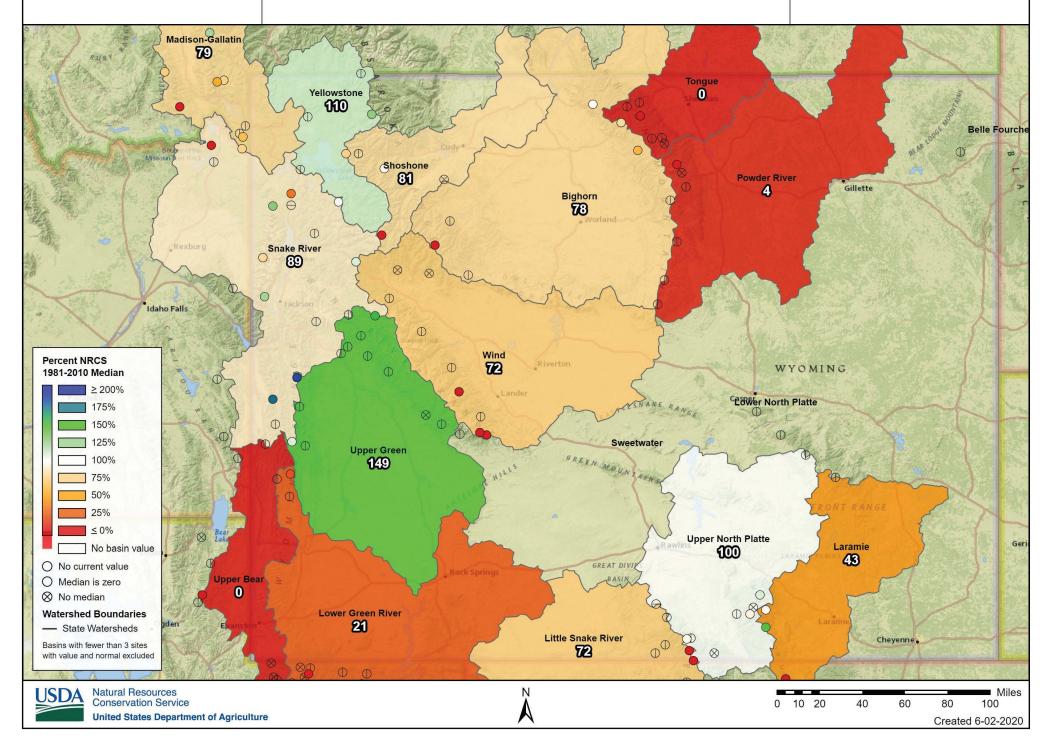
### droughtmonitor.unl.edu

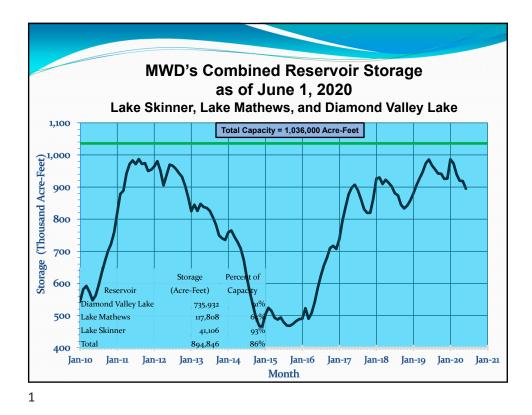


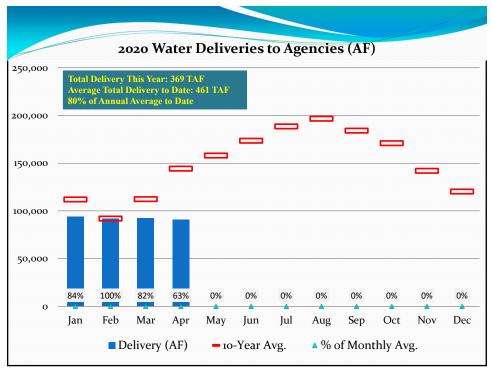
June 1st, 2020

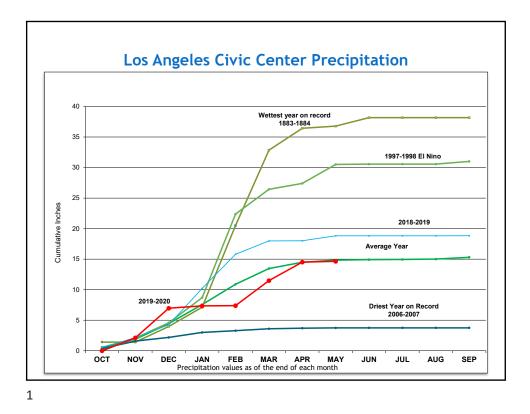




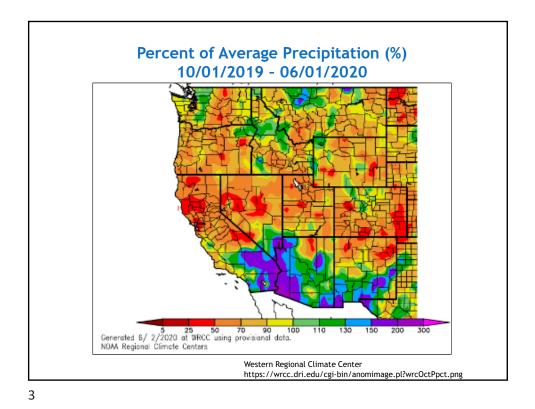


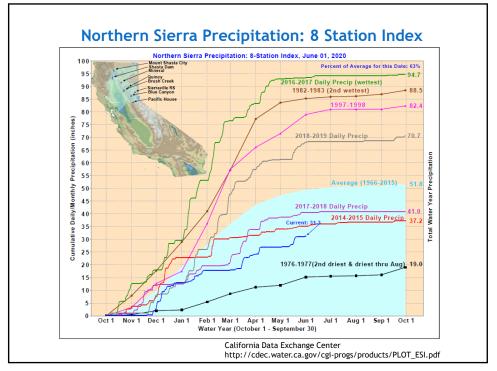


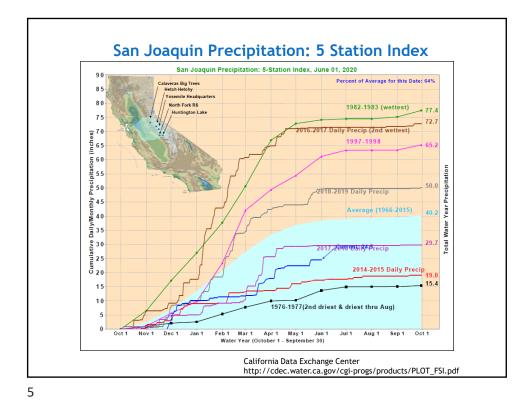


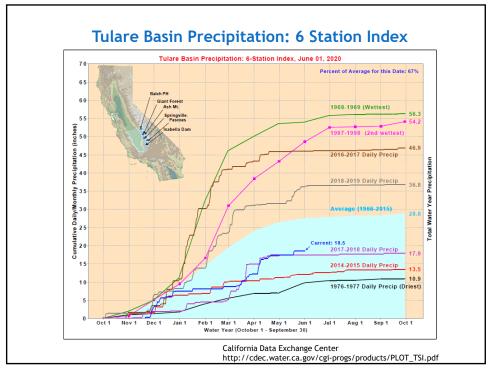


From	Ostobor	1 2010 to May	24 2020	
From	Uctober	1, 2019 to May	31, 2020	
	Precip	itation in inches	A	Demonstrat
Station	May	Oct 1 to May 31	Average to Date	Percent of Average
San Luis Obispo	0.09	9.59	22.00	44%
Santa Barbara	0.05	11.18	17.44	64%
Los Angeles	0.14	14.65	14.84	99%
San Diego	0.02	13.46	9.85	137%
Blythe	0.00	2.92	2.57	114%
Imperial	0.00	2.00	2.18	92%

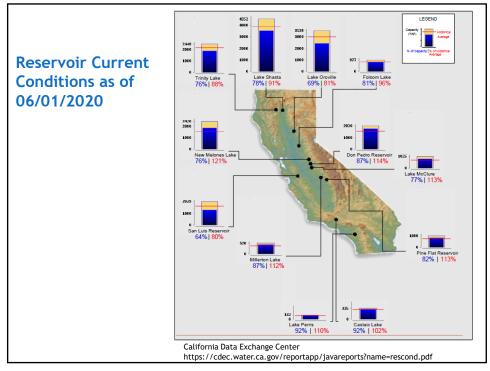


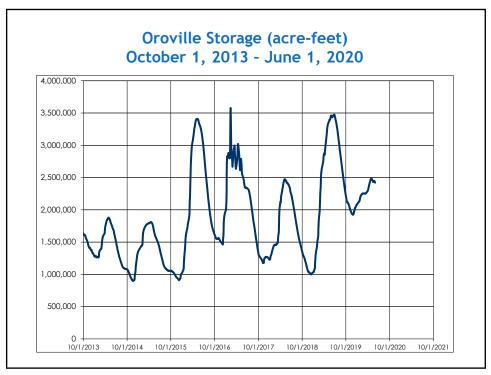


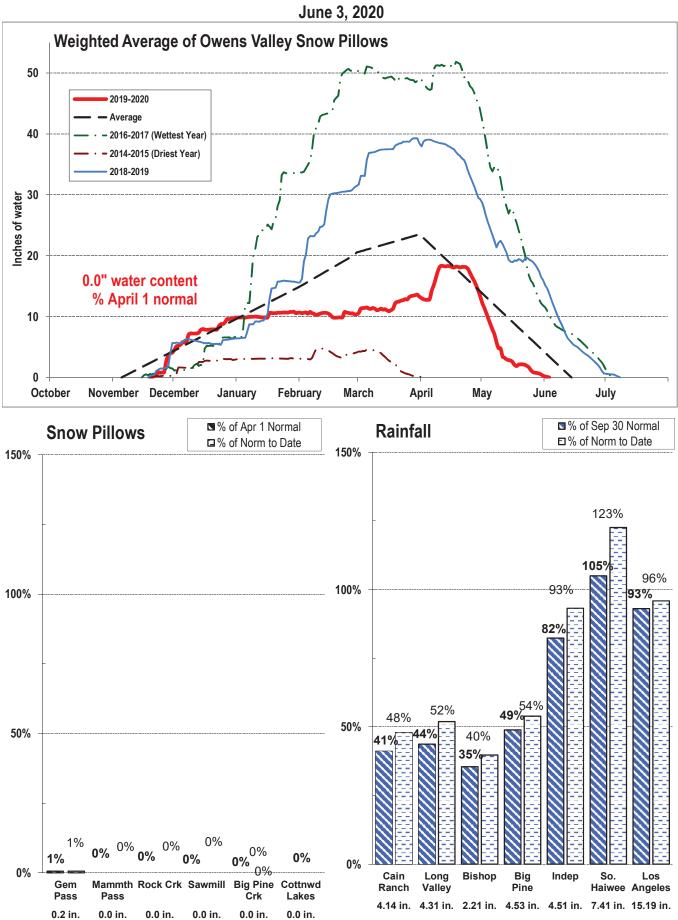




		Water St	orage			
		2019 Sto (acre-fe	5		0	
		As of	% of	As of	% of	
Reservoir	Capacity	Jun 1	Cap.	Jun 1	Cap.	
Frenchman	55,475	56,476	102%	45,625	82%	
Lake Davis	84,371	81,029	<b>96</b> %	63,779	76%	
Antelope	22,564	23,361	104%	22,518	100%	
Oroville	3,553,405	3,458,716	<b>97</b> %	2,420,976	68%	
TOTAL North	3,715,815	3,619,582	<b>97</b> %	2,552,898	<b>69</b> %	
Del Valle	39,914	37,711	94%	35,637	<b>89</b> %	
San Luis	2,027,835	1,445,033	71%	1,292,829	64%	
Pyramid	169,901	162,847	96%	165,105	<b>97</b> %	
Castaic	319,247	300,492	94%	298,315	93%	
Silverwood	74,970	70,884	95%	68,632	<b>92</b> %	
Perris	132,164	121,745	96%	120,844	<b>9</b> 1%	
TOTAL South	2,764,031	2,138,712	<b>78</b> %	1,981,362	72%	
TOTAL SWP	6,479,846	5,758,294	<b>89</b> %	4,534,260	70%	







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

### EASTERN SIERRA CURRENT PRECIPITATION CONDITIONS June 3, 2020