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, April 10, 2019
Time: 10:00 a.m.
Place: Orchid Room
Sheraton Ontario Airport Hotel
429 North Vineyard Avenue
Ontario, CA 91764
Tel: 909-937-8000

The Colorado River Board of California welcomes any comments from members of the public pertaining to items included on this agenda and related topics. Oral comments can be provided at the beginning of each Board meeting; while written comments may be sent to Mr. Peter Nelson, Chairperson, Colorado River Board of California, 770 Fairmont Avenue, Suite 100, Glendale, California, 91203-1068.

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 www.crb.ca.gov.

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

Christopher S. Harris
Executive Director
Regular Meeting  
COLORADO RIVER BOARD OF CALIFORNIA  
Wednesday, April 10, 2019  
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.

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 March 13, 2019 (Action)  
b. Consideration and approval of the Minutes of the Special Board meeting held March 18, 2019 (Action)

4. Water Supply and Operations Reports  
a. Colorado River Basin Report  
b. State and Local Reports

5. Staff reports regarding Colorado River Basin Programs  
a. Status of Colorado River Basin Drought Contingency Plan  
b. Information regarding LCR MSCP Dennis Underwood Conservation Area Groundbreaking Ceremony  
c. General announcements

6. Los Angeles Department of Water and Power Presentation: Boulder Canyon Pumped Storage Project

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  
Next Board Meeting: May 15, 2019  
10:00 a.m.  
Orchid Room - Sheraton Ontario Airport Hotel  
429 North Vineyard Avenue  
Ontario, CA 91764  
909-937-8000
Minutes of Meeting
COLORADO RIVER BOARD OF CALIFORNIA
Wednesday, March 13, 2019

A meeting of the Colorado River Board (Board) of California was held on Wednesday, March 13, 2019.

Board Members and Alternates Present

Evelyn Cortez-Davis (LADWP Alternate)
Dana B. Fisher, Jr. (PVID)
James Hanks (IID)
Jeanine Jones (DWR Designee)
Hank Kuiper (Public Member)
Nicole Neeman-Brady (Public Member)

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

Board Members and Alternates Absent

David De Jesus (MWD Alternate)
Christopher Hayes (DFW Designee)
David R. Pettijohn (LADWP)

John Powell, Jr. (CVWD Alternate)
Norma Sierra Galindo (IID Alternate)

Others Present

Steve Abbott
Brian Alvarez
Melissa Baum-Haley
Robert Cheng
Elsa Contreras
Christopher Harris
Bill Hasencamp
Tom Havens
Michael Hughes
Ned Hyduke
Lisa Johansen
Eric Katz
Laura Lamdin

Lindia Liu
Henry Martinez
Kara Mathews
Doug McPherson
Jessica Neuwerth
Ivory Reyburn
Kelly Rodgers
Shanti Rosset
Angela Rashid
Tom Ryan
Tina Shields
Alina Tishchenko
Cherie Watte
CALL TO ORDER

Chairman Nelson announced the presence of a quorum and called the meeting to order at 10:27 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. Mr. Tom Havens from American Water Resources and an Imperial Irrigation District resident brought up several concerns. His concerns included IID involvement in the DCP, the Salton Sea, and the composition of the small working group.

ADMINISTRATION

Chairman Nelson asked for a motion to approve the February 13, 2019 meeting minutes. Mr. Hanks moved that the minutes be approved, seconded by Mr. Kuiper. By roll-call vote the minutes were unanimously approved.

COLORADO RIVER BASIN WATER REPORTS

Colorado River Basin Report

Ms. Rashid reported that as February 4th, the water level at Lake Powell was 3,571.54 feet with 9.23 million-acre feet (MAF) of storage, or 38% of capacity. The water level at Lake Mead was 1,088.20 feet with 10.70 million-acre feet (MAF) of storage, or 41% of capacity. As of February 4th, total system storage was 26.72 MAF, or 45% of capacity, which is about 4.82 MAF less than system storage at this same time last year.

Ms. Rashid reported the forecasted Water Year-2019 inflow into Lake Powell is 9.75 MAF, or 90% of normal. The Forecsted April – July 2019 inflow into Lake Powell is 7.30 MAF, or 102% of normal. She noted that both forecasts have increased by nearly 2 MAF due to the recent storm activity. For Water Year-2019, the February observed inflow and March forecasted inflow into Lake Powell is 0.26 MAF (65% of normal) and 0.46 MAF (69% of normal), respectively. To date, the WY-2019 precipitation is 117% of normal and the current basin snowpack is 123% of normal.

Ms. Rashid reported on the precipitation conditions in January were above average for most of the Basin, with exception to dry conditions in areas of southern Arizona. In February, precipitation conditions throughout the Basin were above average, with many areas receiving over 300% of average precipitation.

Ms. Rashid reported that as of March 4th, the Upper Colorado River basin reservoirs, excluding Lake Powell, ranged from 34% of capacity at Fontenelle Reservoir in Wyoming; 84%
of capacity at Flaming Gorge Reservoir in Wyoming and Utah; 92% of capacity at Morrow Point and 30% of capacity at Blue Mesa Reservoirs in Colorado; and 51% of capacity at Navajo Reservoir in New Mexico.

Ms. Rashid reported that as of February 28th, Brock and Senator Wash Reservoirs captured 23,004 AF and 22,852 AF, respectively. She also reported that the excess deliveries to Mexico through March 3rd were 866 AF. As of March 2nd, the total bypassed to the Cienega de Santa Clara in Mexico was 14,527 AF.

**State and Local Report**

Ms. Rashid reported that while drought conditions in California have been alleviated, severe and exceptional drought conditions continue to plague the Four Corners region. Ms. Jones, representing the California Department of Water Resources, reported that February was one of the wettest Februayrs on record and precipitation conditions in early March were also wet. She stated that precipitation throughout the State is above average, with only a small area of the central coast still experiencing dry conditions. She noted that this area has only recently begun to recover from the State’s multi-year drought. Ms. Jones reported that DWR activated its flood operations center to manage recent flooding in northern California, particularly in the areas surrounding the Russian River. Governor Newsom issued an emergency declaration for counties impacted by flooding.

Mr. Peterson, representing The Metropolitan Water District of Southern California (MWD) stated that as of March 1st the combined reservoir storage for MWD was 89% of capacity.

Ms. Cortez-Davis, representing the Los Angeles Department of Water and Power (LADWP) reported that the current snowpack condition for the Eastern Sierra was 188%, which is significantly higher than the trend had been earlier in the year.

**STATUS OF COLORADO RIVER BASIN PROGRAMS**

**Status of the Lower Basin Drought Contingency Plan**

Mr. Harris reported that the Lower Basin principals met in Las Vegas, Nevada on February 25th to discuss the completion of the Lower Basin Drought Contingency Plan (DCP) and new proposed extraordinary conservation intentionally created surplus (ICS) exhibits. Mr. Harris also noted that the Coachella Valley Water District raised several outstanding issues it had with the legislative language and proposed ICS exhibits. The Basin States principals were also notified that DCP hearings before the House and Senate had been tentatively scheduled for the last week of March.
Mr. Harris reported that Commissioner Burman has expressed her desire to finalize the DCP package, sign the Seven Basin States letter, and send the package to Congress on March 15th. Pursuant to the February 6th Federal Register notice soliciting Basin States input on Secretarial action to prevent reservoir decline, the public comment period would close on March 19th. The Commissioner hoped to finalize the DCP submittal before this deadline, allowing the notice to be rescinded. Mr. Harris reported that a March 8th conference call for the Basin States and Reclamation was held to discuss final DCP approvals and readiness to sign the Seven States letter.

Mr. Harris noted that work was done over the weekend to resolve several issues raised by the Coachella Valley Water District, resulting in a set of minor modifications to the proposed federal legislation, the MWD/CVWD intra-state agreement, and the Lower Basin Operations document. These minor modifications were vetted and approved by the Basin States and Reclamation on March 11th, allowing for the CVWD board to take affirmative action on the DCP on March 12th. MWD’s board also took action on March 12th to allow Metropolitan to assume responsibility for any IID DCP contributions if needed. Finally, Mr. Harris reported that a call with Reclamation and the Basin States would be held after the Colorado River Board meeting to provide an update on California’s readiness to sign a Seven Basin States letter sending the DCP package and proposed legislative language to Congress.

Board Member Hanks reported that the IID board had directed its attorneys to pursue some changes to the proposed federal legislative language. Mr. Hanks expressed concern that clauses of the currently proposed legislative language mirrored clauses in the federal language authorizing the lining of the All-American Canal, which was later found exempt from federal environmental review. Mr. Hanks maintained that these clauses must be removed from the proposed federal legislation. Mr. Harris noted that the All-American Canal lining project was subject to environmental review before being mandated by Congress and reiterated that the current legislative language has been narrowly tailored to the implementation of the current DCP.

Board Member Fisher advocated for delaying Board action to allow for more time to discuss potential modifications to the legislative language that would address IID’s concerns while preserving the legislative waivers needed to implement the DCP. He expressed discomfort with moving forward with Board action without a consensus.

Chairman Nelson described the changes to the legislative language that had been made for CVWD and agreed with Mr. Fisher that extra time could help bring all parties to agreement.

Board Member Peterson noted that the Board has taken Board action without unanimity before and expressed concern that the Board might not be able to reconvene before March 19th.

Mr. Katz reported that the Board can hold a special meeting to discuss legislation with 48 hours’ notice, and the Board discussed the requirements of holding a special meeting.
Mr. Peterson expressed concern that legislative language specifically addressing the Salton Sea would not be acceptable to the other Basin States, and moved that the Board authorize the Chairman to sign the Seven Basin States letter. The Board discussed the likelihood of reaching unanimous approval by the special meeting and whether the Board could authorize the Chairman to sign a letter with legislative language in substantial conformance with what was currently before the Board. The Board discussed potential changes to the legislative language, including whether it needs to specifically address the Salton Sea or Salton Sea funding. With the lack of a second, Mr. Peterson’s motion did not move forward.

Chairman Nelson proposed scheduling a special Board meeting on Monday, March 18th to discuss whether to authorize the Chairman to sign the Seven Basin States letter to Congress, recommending passage of federal legislation authorizing the implementation of the DCP. Chairman Nelson reported that he would inform Reclamation and the Basin States of the Board’s decision on the call scheduled after the meeting.

**Status of the Salinity Control Forum**

Mr. Harris reported that the Work Group met on February 20-22 and initiated work on the next triennial review. The review usually takes about a year to prepare. Mr. Harris reported that USGS continues to work on a study to understand the flattening trend of salinity in the Colorado River Basin despite the implementation of significant additional salinity control measures. USGS is also working on a detailed geohydrologic evaluation of the Pah Tempe Springs on the Virgin River in Utah as a potential point-source salinity control project that would control about 100,000 tons of salt per year.

On March 4th, a magnitude 4.1 earthquake occurred close to the Paradox Valley Unit. Mr. Harris reported that the injection well was shut down at the time and will remain shut down while Reclamation evaluate impacts to future operations. Reclamation expects to have the Paradox Valley Unit EIS wrapped up by fall or winter of this year.

Mr. Harris reported that the work group will meet in Salt Lake City, Utah on April 17-18 with the Forum meeting in Denver in June of this year.

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

Mr. Harris reported that the Glen Canyon Dam Adaptive Management Work Group (AMWG) met March 6-7 in Phoenix, Arizona. The group discussed recent changes in funding, which have shifted the program to reliance on federal appropriations, instead of power revenues. Mr. Harris noted that the group heard the preliminary results of the November 2018 High Flow Experiment (HFE) release and the summer 2018 “bug flow” releases from Glen Canyon Dam; both experiments seem to have met their objectives. The AMWG also discussed the proposed
downlisting of the razorback sucker and humpback chub from endangered to threatened; downlisting proposals are expected by the end of the year and will include specific details on the protections to be afforded to the species after their change in status. Finally, Mr. Harris noted that the Technical Work Group (TWG) was meeting March 12-14 in Phoenix to discuss the past year’s monitoring and research.

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

Mr. Harris reported that the Lower Colorado River Multi-Species Conservation Program (LCR MSCP) financial work group had met via teleconference on February 21st. The group discussed the FY18, FY19, and FY20 budgets. Although expenditures in FY18 were significantly less than budgeted due to delays in construction, the FY19 budget and work plan would absorb the unspent funds and carry out the delayed projects. Finally, Mr. Harris reported that the LCR MSCP Steering Committee would meet in Las Vegas on April 24th.

**ANNOUNCEMENTS**

Mr. Harris reported that Mr. Andrew Wheeler has been confirmed as EPA Administrator. Mr. David Bernhardt, the current Acting Secretary of the Interior, was nominated to serve as Secretary of the Interior. His confirmation hearing has not been scheduled yet.

The President’s FY-2020 budget was released on Monday, March 11th, and a more detailed budget is expected soon. Last week, the House Natural Resources Subcommittee on Water, Oceans, and Wildlife held a hearing about the state of the nation’s water supply and reliability.

Mr. Harris reported that the Senate Energy & Natural Resources Committee is expected to hold a DCP hearing on March 27th. This will be a smaller hearing and witnesses may include Commissioner Burman and UB and LB representatives. The House Natural Resources Committee will schedule a DCP hearing on March 28th. This will likely be a larger hearing with representatives from each of the seven Basin States, Commissioner Burman, and possibly tribal and NGO representatives.

Finally, Mr. Harris noted that the next meeting of the Colorado River Board would be April 10th.

**ADJOURNMENT**

With no further items to be brought before the Board, Chairman Nelson adjourned the meeting at 12:05 p.m.
# LOWER COLORADO WATER SUPPLY REPORT

Bureau of Reclamation

Questions: BCOOWaterops@usbr.gov
(702) 293-8373
http://www.usbr.gov/lc/region/g4000/weekly.pdf

<table>
<thead>
<tr>
<th>Reservoir</th>
<th>PERCENT</th>
<th>Content (ac-ft (kaf))</th>
<th>Elev. (Foot above mean sea level)</th>
<th>7-Day Release (CFS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAKE POWELL</td>
<td>37%</td>
<td>9,049</td>
<td>3,569.28</td>
<td>13,100</td>
</tr>
<tr>
<td>* LAKE MEAD</td>
<td>42%</td>
<td>10,878</td>
<td>1,090.24</td>
<td>11,600</td>
</tr>
<tr>
<td>LAKE MOHAVE</td>
<td>93%</td>
<td>1,687</td>
<td>642.57</td>
<td>14,400</td>
</tr>
<tr>
<td>LAKE HAVASU</td>
<td>93%</td>
<td>577</td>
<td>447.86</td>
<td>11,500</td>
</tr>
<tr>
<td>** TOTAL SYSTEM CONTENTS **</td>
<td>45%</td>
<td>26,800</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

As of 3/31/2019

| SYSTEM CONTENT LAST YEAR | 52%     | 31,098                 |                                   |                     |

* Percent based on capacity of 26,120 kaf or elevation 1,219.6 feet.

** TOTAL SYSTEM CONTENTS includes Upper & Lower Colorado River Reservoirs, less Lake Mead exclusive flood control space.

<table>
<thead>
<tr>
<th>System</th>
<th>PERCENT</th>
<th>Content (kaf)</th>
<th>Elev. (Feet)</th>
<th>7-Day Release</th>
</tr>
</thead>
<tbody>
<tr>
<td>Salt/Verde System</td>
<td>79%</td>
<td>1,801</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Painted Rock Dam</td>
<td>0%</td>
<td>0</td>
<td>530.00</td>
<td>0</td>
</tr>
<tr>
<td>Alamo Dam</td>
<td>15%</td>
<td>148</td>
<td>1,121.63</td>
<td>25</td>
</tr>
</tbody>
</table>

Forecasted Water Use for Calendar Year 2019 (as of 4/1/2019) (values in kaf)

<table>
<thead>
<tr>
<th>State</th>
<th>Use (kaf)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEVADA</td>
<td>286</td>
</tr>
<tr>
<td>SOUTHERN NEVADA WATER SYSTEM</td>
<td>251</td>
</tr>
<tr>
<td>OTHERS</td>
<td>35</td>
</tr>
<tr>
<td>CALIFORNIA</td>
<td>4,154</td>
</tr>
<tr>
<td>METROPOLITAN WATER DISTRICT OF CALIFORNIA</td>
<td>704</td>
</tr>
<tr>
<td>IRRIGATION DISTRICTS</td>
<td>3,435</td>
</tr>
<tr>
<td>OTHERS</td>
<td>15</td>
</tr>
<tr>
<td>ARIZONA</td>
<td>2,628</td>
</tr>
<tr>
<td>CENTRAL ARIZONA PROJECT</td>
<td>1,458</td>
</tr>
<tr>
<td>OTHERS</td>
<td>1,159</td>
</tr>
<tr>
<td>** TOTAL LOWER BASIN USE **</td>
<td>7,067</td>
</tr>
</tbody>
</table>

DELIVERY TO MEXICO - 2019 (Mexico Scheduled Delivery + Preliminary Yearly Excess1) 1,524

OTHER SIGNIFICANT INFORMATION

UNREGULATED INFLOW INTO LAKE POWELL - MARCH MID-MONTH FORECAST DATED 3/19/2019

<table>
<thead>
<tr>
<th></th>
<th>MILLION ACRE-FEET</th>
<th>% of Normal</th>
</tr>
</thead>
<tbody>
<tr>
<td>FORECASTED WATER YEAR 2019</td>
<td>12.310</td>
<td>114%</td>
</tr>
<tr>
<td>FORECASTED APRIL-JULY 2019</td>
<td>9.500</td>
<td>133%</td>
</tr>
<tr>
<td>FEBRUARY OBSERVED INFLOW</td>
<td>0.255</td>
<td>65%</td>
</tr>
<tr>
<td>MARCH INFLOW FORECAST</td>
<td>0.640</td>
<td>96%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Water Year 2019 Precip to Date</th>
<th>Upper Colorado Basin</th>
<th>Salt/Verde Basin</th>
</tr>
</thead>
<tbody>
<tr>
<td>122% (21.2&quot;)</td>
<td>130% (21.4&quot;)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Current Basin Snowpack</th>
<th>Upper Colorado Basin</th>
<th>Salt/Verde Basin</th>
</tr>
</thead>
<tbody>
<tr>
<td>133% (20.9&quot;)</td>
<td>142% (21.1&quot;)</td>
<td></td>
</tr>
</tbody>
</table>

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

Use
To Date
Forecast
Use
Approved
Use
Excess to Approval

<table>
<thead>
<tr>
<th></th>
<th>CY2019</th>
<th>CY2019</th>
<th>CY2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARIZONA</td>
<td>2,637,726</td>
<td>2,789,843</td>
<td>-162,117</td>
</tr>
<tr>
<td>CALIFORNIA</td>
<td>4,153,623</td>
<td>4,374,692</td>
<td>-221,069</td>
</tr>
<tr>
<td>NEVADA</td>
<td>286,142</td>
<td>300,000</td>
<td>-13,858</td>
</tr>
</tbody>
</table>

STATES TOTAL ²
1,221,352 7,067,491 7,464,535 -397,044

MEXICO IN SATISFACTION OF TREATY (Including downward delivery)
Forecast Use, ac-ft
430,189 1,524,275 1,500,000 24,275

TO MEXICO AS SCHEDULED
Forecast Use, ac-ft
428,399 1,500,000

MEXICO IN EXCESS OF TREATY ⁴
Forecast Use, ac-ft
1,790 24,275

BYPASS PURSUANT TO MINUTE 242 ⁵
Forecast Use, ac-ft
21,988 107,679

TOTAL LOWER BASIN & MEXICO
Forecast Use, ac-ft
1,673,529 8,699,445

1/ 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.
2/ These values reflect adjusted apportionments. See Adjusted Apportionment calculation on each state page.
3/ Includes unmeasured returns based on estimated consumptive use/diversion ratios by user from studies provided by Arizona Department of Water Resources, Colorado River Board of California, and Reclamation.
4/ Mexico excess forecast is based on the 5-year average for the period 2013-2017.
5/ Bypass forecast is based on the average for the period 1990-2017.

Graph notes: Jan 1 forecast use is scheduled use in accordance with the Annual Operating Plan’s state entitlements, available unused entitlements, and over-run paybacks. A downward sloping line indicates use at a lower rate than scheduled, upward sloping is above schedule, and a flat line indicates a use rate equal to schedule. Lower priority users such as CAP, MMID, and Rob 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.
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)

<table>
<thead>
<tr>
<th>WATER USER</th>
<th>Use To Date CY2019</th>
<th>Forecast Use CY2019</th>
<th>Estimated Use CY2019</th>
<th>Excess to Estimated Use CY2019</th>
<th>Diversion To Date CY2019</th>
<th>Forecast Diversion CY2019</th>
<th>Approved Diversion CY2019</th>
<th>Excess to Approved Diversion CY2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARIZONA PUMPERS</td>
<td>3,227</td>
<td>14,444</td>
<td>14,444</td>
<td>---</td>
<td>4,972</td>
<td>22,255</td>
<td>22,255</td>
<td>0</td>
</tr>
<tr>
<td>LAKE MEAD NRA, AZ - Diversions from Lake Mead</td>
<td>15</td>
<td>107</td>
<td>107</td>
<td>---</td>
<td>15</td>
<td>107</td>
<td>107</td>
<td>0</td>
</tr>
<tr>
<td>LAKE MEAD NRA, AZ - Diversions from Lake Mohave</td>
<td>33</td>
<td>185</td>
<td>185</td>
<td>---</td>
<td>33</td>
<td>185</td>
<td>185</td>
<td>0</td>
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<tr>
<td>DAVIS DAM PROJECT</td>
<td>0</td>
<td>2</td>
<td>2</td>
<td>---</td>
<td>4</td>
<td>20</td>
<td>20</td>
<td>0</td>
</tr>
<tr>
<td>BULLHEAD CITY</td>
<td>1,428</td>
<td>7,593</td>
<td>7,683</td>
<td>---</td>
<td>2,395</td>
<td>12,535</td>
<td>12,720</td>
<td>-185</td>
</tr>
<tr>
<td>MOHAVE WATER CONSERVATION DISTRICT</td>
<td>141</td>
<td>632</td>
<td>632</td>
<td>---</td>
<td>211</td>
<td>944</td>
<td>944</td>
<td>0</td>
</tr>
<tr>
<td>BROOKE WATER LLC</td>
<td>70</td>
<td>315</td>
<td>315</td>
<td>---</td>
<td>106</td>
<td>475</td>
<td>475</td>
<td>0</td>
</tr>
<tr>
<td>MOHAVE VALLEY IDD</td>
<td>3,795</td>
<td>20,905</td>
<td>21,464</td>
<td>---</td>
<td>7,028</td>
<td>38,710</td>
<td>39,746</td>
<td>-1,036</td>
</tr>
<tr>
<td>FORT MOHAVE INDIAN RESERVATION, AZ</td>
<td>4,566</td>
<td>41,286</td>
<td>44,550</td>
<td>---</td>
<td>8,456</td>
<td>76,456</td>
<td>82,500</td>
<td>-6,044</td>
</tr>
<tr>
<td>GOLDEN SHORES WATER CONSERVATION DISTRICT</td>
<td>60</td>
<td>268</td>
<td>268</td>
<td>---</td>
<td>90</td>
<td>402</td>
<td>402</td>
<td>0</td>
</tr>
<tr>
<td>HAVASU NATIONAL WILDLIFE REFUGE</td>
<td>270</td>
<td>3,171</td>
<td>3,563</td>
<td>---</td>
<td>2,253</td>
<td>36,303</td>
<td>41,820</td>
<td>-5,517</td>
</tr>
<tr>
<td>LAKE HAVASU CITY</td>
<td>1,745</td>
<td>8,844</td>
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TOTAL ARIZONA 484,266 2,627,726 2,789,839 640,509 3,483,009 3,684,783
CAP 323,817 1,458,264 1,458,264
ALL OTHERS 160,449 1,169,462 1,224,724 2,024,745 2,119,668
YUMA MESA DIVISION, GILA PROJECT 28,631 190,814 171,610 19,204 346,410

ARIZONA ADJUSTED APPORTIONMENT CALCULATION
Arizona Basic Apportionment 2,800,000
System Conservation Water - Pilot System Conservation Program 2 -10,157
Total State Adjusted Apportionment 2,789,843
Excess to Total State Adjusted Apportionment -162,117
Estimated Allowable Use for CAP 1,623,165

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 System Conservation Water to be conserved by Bullhead City and the Colorado River Indian Tribes pursuant to System Conservation Implementation Agreements executed under the Pilot System Conservation Program. This water will remain in Lake Mead to benefit system storage.

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

<table>
<thead>
<tr>
<th>WATER USER</th>
<th>Use To Date CY2019</th>
<th>Use CY2019</th>
<th>Estimated Use CY2019</th>
<th>Diversion To Date CY2019</th>
<th>Diversion CY2019</th>
<th>Approved Diversion CY2019</th>
<th>Excess to Estimated Use CY2019</th>
<th>Excess to Approved Diversion CY2019</th>
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<td>128,579</td>
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TOTAL CALIFORNIA | 707,985 | 4,153,623 | 815,877 | 4,756,087 | 5,003,439 | 924,994 |

CALIFORNIA ADJUSTED APPORTIONMENT CALCULATION
California Basic Apportionment | 4,400,000 |
System Conservation Water - Pilot System Conservation Program | -308 |
Creation of Additional Conserved Water (IID) | -25,000 |
Creation of Extraordinary Conservation ICS (MWD) | --- |
Total State Adjusted Apportionment | 4,374,692 |
Excess to Total State Adjusted Apportionment | -221,069 |

Estimated Allowable Use for MWD | 924,994 |

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

1 System Conservation Water to be conserved by the City of Needles and the Coachella Valley Water District pursuant to System Conservation Implementation Agreements executed under the Pilot System Conservation Program. This water will remain in Lake Mead to benefit system storage.

2 IID's CY 2019 water order incorporates an "Estimate of Additional Conserved Water" for purposes including, but not limited to, storage in the Metropolitan Water District of Southern California's system (with the written consent of MWD) or in Lake Mead as Intentionally Created Surplus (ICS). As of the date of this forecast, approval of IID's CY 2019 ICS Plan of Creation (Plan) is pending. Use by IID of Additional Conserved Water to create ICS for storage in Lake Mead is conditional upon Reclamation's approval of IID's CY 2019 Plan.

3 MWD's CY 2019 water order incorporates the creation of up to 299,300 AF of Extraordinary Conservation Intentionally Created Surplus (ICS). As of the date of this forecast, approval of MWD's CY 2019 ICS Plan of Creation (Plan) is pending; therefore the estimate of the amount of water available to MWD does not incorporate ICS creation by MWD. Upon approval of MWD's CY 2019 ICS Plan, Reclamation will revise MWD's water order approval accordingly.
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)

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<th>Excess to Estimated Use CY2019</th>
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<th>Forecast Diversion CY2019</th>
<th>Approved Diversion CY2019</th>
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<td>500</td>
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Tributary Conservation & Imported Intentionally Created Surplus

| Total Requested Tributary Conservation Intentionally Created Surplus     | 42,000              |
| Total Requested Conservation Intentionally Created Surplus              | 0                   |
| 5% System Assessment for Creation of Intentionally Created Surplus     | -2,100              |
| Total Intentionally Created Surplus Left in Lake Mead                   | 39,900              |

NEVADA ADJUSTED APPORTIONMENT CALCULATION

| Nevada Basic Apportionment                                              | 300,000             |
| Excess to Total State Adjusted Apportionment                            | -13,858             |

Robert B. Griffith Forecast

LV Wash Return Forecast

Notes:
- 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.
- Water user with a diversion entitlement - Excess to Approved Diversion column indicates overrun/underrun of entitlement.

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: 04/01/2019

Upper Colorado River Drainage Basin

Lake Powell
9643380/24322000
37% Full

Flaming Gorge
3187254/3749000
85% Full

Fontenelle
94775/344800
27% Full

Morrow Point
106656/117025
91% Full

Blue Mesa
249538/629500
30% Full

Navajo
958270/1696000
57% Full

Drainage Area 107,838 Square Miles
Lower Colorado River Teacup Diagram

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

Data for: 04/01/2019
Flows are daily averages.
Elevations and Storage Volumes are midnight values.
Last updated on: 04/02/2019 8AM
MWD’s Combined Reservoir Storage as of April 1, 2019
Lake Skinner, Lake Mathews, and Diamond Valley Lake

<table>
<thead>
<tr>
<th>Reservoir</th>
<th>Storage (Acre-Feet)</th>
<th>Percent of Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diamond Valley Lake</td>
<td>750,691</td>
<td>93%</td>
</tr>
<tr>
<td>Lake Mathews</td>
<td>159,079</td>
<td>87%</td>
</tr>
<tr>
<td>Lake Skinner</td>
<td>36,729</td>
<td>83%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>946,499</strong></td>
<td><strong>91%</strong></td>
</tr>
</tbody>
</table>

Total Capacity = 1,036,000 Acre-Feet

2019 Water Deliveries to Agencies (AF)

Total Delivery This Year: 0.154 MAF
Average Total Delivery to Date: 0.209 MAF
73% of Annual Average to Date

Delivery (AF) - Red,
10-Year Avg. - Blue,
% of Monthly Avg. - Pink
2018 Water Deliveries to Agencies (AF)

Total Delivery This Year: 1.75 MAF
Average Total Delivery to Date: 1.85 MAF
95% of Annual Average to Date

Delivery (AF)  10-Year Avg.  % of Monthly Avg.
EASTERN SIERRA
CURRENT PRECIPITATION CONDITIONS
April 3, 2019

Weighted Average of Owens Valley Snow Pillows

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

Snow Pillows

Rainfall

% of Apr 1 Normal
% of Norm to Date

% of Sep 30 Normal
% of Norm to Date

Gem Pass
Mammoth Pass
Rock Creek
Sawmill Crk
Big Pine Crk
Cottonwood Lakes

Cain Ranch
Long Valley
Bishop
Big Pine
Independence
So. Haiwee
Los Angeles

49.1 in.
65.9 in.
19.0 in.
32.8 in.
41.7 in.
23.3 in.

8.10 in.
11.95 in.
8.36 in.
14.78 in.
6.86 in.
9.35 in.
18.79 in.

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