

**COLORADO RIVER BOARD OF CALIFORNIA**

770 FAIRMONT AVENUE, SUITE 100  
GLENDALE, CA 91203-1068  
(818) 500-1625  
(818) 543-4685 FAX



May 28, 2015

**NOTICE OF REGULAR MEETING OF THE  
COLORADO RIVER BOARD**

**NOTICE IS HEREBY GIVEN** pursuant to the call of the Chairperson, Dana B. Fisher, Jr., 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, 2015
Time: 10:00 a.m.
Place: Vineyard Room Holiday Inn Ontario Airport 2155 Convention Center Way Ontario, CA 91764 Tel: (909) 212-8000

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. Dana B. Fisher, Jr., Chairperson, Colorado River Board of California, 770 Fairmont Avenue, Suite 100, Glendale, California, 91203-1068.

An Executive Session may be held in accordance with 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 in accordance with 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.

Requests for additional information may be directed to: Ms. Tanya M. Trujillo, 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](http://www.crb.ca.gov).

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

Tanya M. Trujillo  
Executive Director

attachment: Agenda

Regular Meeting  
COLORADO RIVER BOARD OF CALIFORNIA  
Wednesday, June 10, 2015  
10:00 a.m.

Vineyard Room  
Holiday Inn Ontario Airport  
2155 Convention Center Way  
Ontario, CA 91764

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 as required by Government Code, Section 54954.3(a) (limited to 5 minutes)
3. Administration
  - a. Consideration and Approval of the Minutes of the Meeting held May 13, 2015  
**(Action)**
  - b. Approval of Fiscal Year 2015-2016 Colorado River Board Budget and Standard Agreement for reimbursement of expenses  
**(Action)**
  - c. Consideration of application for allocation from the Lower Colorado River Water Supply Project **(Action)**
4. Colorado River Basin Water Reports
  - a. Reports on current reservoir storage, reservoir releases, projected water use, and forecasted river flows
  - b. State and Local Water Reports
5. Update regarding the California Drought
6. Staff Reports regarding the Colorado River Basin Programs
  - a. Review status of the Basin States Drought Contingency Programs
  - b. Review status of the Colorado River Basin Water Supply and Demand Study
  - c. Review status of the implementation of Minute 319
  - d. Review status of the Salinity Control Forum, Workgroup, and Advisory Council
  - e. Review status of the Glen Canyon Dam Adaptive Management Work Group and Long-Term Experimental and Management Plan EIS
  - f. Review Status of the Lower Colorado River Multi-Species Conservation Program
7. Announcements/Notices

8. 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.

9. Other Business

- a. Next Board Meeting: Regular Meeting  
July 15, 2015  
10:00 a.m.  
Vineyard Room  
Holiday Inn Ontario Airport  
2155 East Convention Center Way  
Ontario, CA 91764-4452  
Tel: (909) 212-8000, Fax: (909) 418-6703

Minutes of Meeting  
COLORADO RIVER BOARD OF CALIFORNIA  
Wednesday, May 13, 2015

A meeting of the Colorado River Board of California was held on Wednesday, May 13, 2015.

Board Members and Alternates Present

Brian Brady	David Pettijohn
Dana Bart Fisher, Jr., Chairman	Jack Seiler
James Hanks	David Vigil
Henry Kuiper	Doug Wilson
Peter Nelson	Jeanine Jones
Glen Peterson	

Board Members and Alternates Absent

Stephen Benson	Michael Touhey
John Powell Jr.	Chris Hayes

Others Present

Steve Abbott	Autumn Plourd
Samantha Adams	Larry Purcell
Tim Blair	Angela Rashid
Augie Caires	Halla Razak
John Carter	Eric Ruckdaschel
Robert Cheng	Peter Silva
Dan Denham	Nan Sterman
Brad Fikas	Joanna Smith
Christopher Harris	Philip Southard
Bill Hasencamp	Tanya Trujillo
Michael Hughes	Mark Van Vlack
Ned Hyde	Cher Watte
Lisa Johansen	Suzanna Webb
Eric Katz	Meena Westford
Neena Kuzmich	
Eric Larson	
Tom Levy	
Keith Lewinger	
Lindia Liu	
Kara Mathews	
Jan Matusak	
Jessica Neuwerth	
Thang (Vic) Nguyen	

## **CALL TO ORDER**

Chairman Fisher announced the presence of a quorum and called the meeting to order at 10:07 A.M.

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

Chairman Fisher asked if there was anyone in the audience who wished to address the Board on items on the agenda or matters related to the Board. Chairman Fisher introduced Mr. John Carter. Mr. Carter introduced Cheri Watte, a native from the Imperial Valley. Mr. Carter explained Ms. Watte's professional career. Mr. Carter also explained that he and Ms. Watte are members of a new organization that is focused on helping protect the Imperial Valley and California's water rights.

Chairman Fisher introduced Nan Sterman and explained that Ms. Sterman recently produced a video that was played on KPBS in San Diego. Ms. Sterman thanked Mr. Fisher and explained that she is a co-producer and host of the show called A Growing Passion which airs on public television in San Diego. Ms. Sterman gave a short presentation on gardening and showed slides from the video.

## **PRESENTATIONS BY THE SAN DIEGO COUNTY WATER AUTHORITY REGARDING AN OVERVIEW OF THE SAN DIEGO COUNTY WATER AUTHORITY, CARLSBAD DESALINATION PROJECT UPDATE AND EAST COUNTY ADVANCED PURIFICATION**

Dan Denham presented an overview of the San Diego County Water Authority (SDWCA) and discussed the efforts and activities taken by over the past ten years to increase water supply reliability such as implementing agreements like the Quantification Settlement Agreement.

Neena Kuzmich, San Diego County engineer with the Carlsbad Desalination Project, reported to the Board about the status of the construction of the desalination facility, which began construction a year-and-a-half ago. The developer, Poseidon Resources entered into a 30-year Water Purchase agreement with SDWCA. Once complete, the desalination plant will be the largest desalination plant west of the Sierras and provide approximately 50 million gallons per day of high quality drinking water to Carlsbad and the surrounding community. The presentation also included a fly-over virtual tour of the facility.

Vice-Chair Wilson gave a presentation about Padre Dam's Advanced Water Purification project located in the East County region of San Diego. The project proposes to purify treated wastewater that will supply 20% to 30% of the area's local water needs. The project includes a one-year demonstration project that will process treated

wastewater that will meet the level of distilled water. The results of the demonstration project will be reviewed by a panel of experts, including the Health Department. Mr. Wilson added that the project also includes tours for the public to help promote public acceptance of the project.

### **PRESENTATION FROM THE CITY OF SAN DIEGO REGARDING THE WATER PURIFICATION DEMONSTRATION PROJECT**

Director of the City of San Diego Public Utilities, Halla Razak, gave a presentation on the water challenges the City of San Diego is facing with the drought. Ms. Razak spoke about the water conservation efforts, groundwater development challenges with limited availability of aquifers, and their recycled water system. The multi-year Pure Water Program is meant to use current technologies to produce a sustainable and high-quality water supply. The draft Environmental Document for this program will be published at the end of the year, and the product water will be distributed to customers in 2021.

### **PRESENTATION BY ERIC LARSON, EXECUTIVE DIRECTOR OF THE SAN DIEGO COUNTY FARM BUREAU**

Mr. Eric Larson, Executive Director of the San Diego County Farm Bureau, gave an overview of how the drought has impacted the farming industry in San Diego County. He gave several examples on how the farmers have developed new water use strategies in order to continue to be a major agricultural production area in the nation.

### **COLORADO RIVER BASIN WATER REPORT**

#### **Presentation regarding the 2014 AZ v. CA Decree Accounting Report**

Angela Rashid, Colorado River Board staff, reported on the draft the 2014 Colorado River Accounting and Water Use Report (Accounting Report) released in April. Ms. Rashid explained that the Accounting Report is a requirement of Article V of the 1964 AZ v. California Supreme Court Decree. Ms. Rashid briefly explained the process of compiling the data for the Accounting Report which begins with the modeling and development of the Annual Operating Plan in August, includes the water order approval process as well as real time monitoring and forecasting of all diversions, uses and return flows. At the end of the calendar year, Reclamation compiles the Accounting Report that includes detailed records of releases from regulatory structures, diversions, returns, consumptive uses by the Lower Basin States, water ordered but not delivered, deliveries to the Gila National Forest and deliveries to Mexico. Other important information found in the Accounting Report includes overrun accounting, interstate banking, conservation, transfers, and exchanges, ICS and accounting for the Lower Colorado Supply Project. The final Accounting Report will be published by May 15, 2015.

## Colorado River Basin Water Report

Ms. Trujillo reported that Lake Mead had recently reached its lowest level since its filling, noting that its elevation may achieve new lows daily as we approach summer. Lake Mead is 38% of capacity, while Lake Powell is 44% of capacity as of May 3. On May 4, 2015, precipitation in the Basin is 73% of average since the beginning of the Water Year in October. Snowpack in the Basin is 45% of average, with forecasted April through July runoff expected to be 42% of average. Forecasted unregulated inflows into Lake Powell for Water Year 2015 are 59% of average. Ms. Trujillo reported that lower levels of precipitation and high temperatures have resulted in less runoff than expected.

Ms. Trujillo also reported on the Basin States Technical Committee meeting held on April 28, 2015. The meeting is held twice a year and brings together technical staff from the seven Basin States to hear reports from Reclamation and other federal agencies and to share information about the status of programs within the Basin. During the meeting, Reclamation reported that there is a 33% probability of shortage in 2016 and a 25% probability of shortage in 2017. Reclamation stated that side inflows will be a critical factor to determining the elevations in Lake Mead as they approach the August 24-month study modeling and operating tier determinations. Ms. Trujillo added that Reclamation recently released its Midterm Operation Model (MTOM), which is an additional tool that can be used to evaluate the reservoir system. Additional topics discussed during the meeting included updates on the hydrologic conditions and Basin forecast from NOAA, the California drought, Minute 319 and other on-going programs in the Basin.

## State Water Report

Board member Jones reported that precipitation in the Northern Sierras is 75% of average. Noting unfortunately, that most of the precipitation did not stay frozen, resulting in early snow melt and low reservoir levels. San Joaquin reservoir levels were also low due to poor snowpack accumulation. Ms. Jones noted that most of the larger statewide reservoirs, which are important for managing the Delta and supplying water for the State project, are well below average.

## Local Water Report

MWD's total reservoir storage as of May 1, 2015 is at 47% of capacity. Board member Peterson stated applications for MWD's Residential Turf Program have greatly increased, noting that 527 applications were submitted last April, while 10,000 applications were submitted in April 2015. Mr. Peterson stated that MWD has over \$500 million of turf removal applications and is considering modifying the program to help mitigate the program's increasing expense.

## **UPDATE REGARDING THE CALIFORNIA DROUGHT**

Ms. Trujillo reported that 47% of the State is in the exceptional drought category. The May 1 snowpack level was 2% of average which is lower than the prior month's snowpack of 5% of average. On May 5, the State Board implemented regulations for implementation of the Governor's April 1 Executive Order, requiring water reduction tiers for urban providers between 8% and 36% based on current per capita gallons per day usage. The overall target will be 55 gallons per person per day for indoor water uses.

Board member Jones reported that the State's Senate National Resources Committee held an oversight hearing on the Administration's actions on the drought. Ms. Jones also noted that DWR held a press conference to discuss the installation of the temporary salinity emergency barrier in the Delta on West False River. The barrier cost close to \$40 million and will stay in place until November. The barrier will control salinity in the Delta to help meet delivery capability within the Delta service area and environmental regulatory requirements.

## **STAFF REPORTS REGARDING THE COLORADO RIVER BASIN PROGRAMS**

### Review status of the Basin States Drought Contingency Programs

Ms. Trujillo reported that the Board continues to work with the other two Lower Basin States on efforts to implement the Memorandum of Understanding that was developed last fall. In addition, there is a system conservation pilot program which has been implemented and Reclamation is expected to announce the award of contracts in the Lower Basin soon. Since Reclamation does not have the same authority in the Upper Basin, the Upper Colorado River Commission will be facilitating the contracting process for the pilot program in the Upper Basin.

Reclamation continues to develop programs relating to efforts to reduce the excess bypass flows going to Mexico, focusing on improving efficiency primarily in the Yuma area. Ms. Trujillo reported that Board staff will continue to monitor and participate in the workgroup process, which is co-led by Reclamation and Arizona, and to provide updates to the Board member agencies on that effort.

### Review status of the Colorado River Basin Water Supply and Demand Study

Ms. Trujillo reported that Reclamation released the Phase I report of the Basin Water Supply and Demand Study (Basin Study) on May 12, 2015. The report focused on municipal and industrial conservation, agricultural conservation, and water transfers and environmental and recreational flows. For the municipal and industrial conservation portion, the report highlighted approximately 25 opportunities for improved sustainability in the Basin, such as examples of how to increase outdoor water use efficiency. With respect to agricultural conservation, the report documented potentials for improving productivity and water management, such as switching from flood irrigation to drip

irrigation in appropriate areas. Since this was a Basin-wide effort, there were examples from both the Upper and Lower Basins highlighted in the report. In the environmental flows portion, Reclamation is looking for funding opportunities for expanded partnering between traditional water uses and environmental flows. Phase II of the Basin Study process is expected to look into pilot projects that may be undertaken under the three sectors in both Basins. The report can be found on Reclamation's website where there is an opportunity for public comments.

#### Review status of the implementation of Minute 319

A meeting with the Mexican delegation is scheduled for May 14 to review the implementation status of Minute 319 and start the discussion of a longer-term agreement. Minute 319 has a 5-year term and we are halfway through that term. The goal is to try to examine the potential for expanding some of the agreement's benefits on a long-term basis. Ms. Trujillo reported that there was positive feedback from the Mexican delegation at the Colorado River Water Users meeting in December of last year and she anticipated similar positive messages from them at the May 14, 2015 meeting. Ms. Trujillo will report back to the Board on the meeting.

#### Review status of the Salinity Control Forum, Workgroup, and Advisory Council Revised Agenda

As one of the members on the Salinity Control Forum's Executive Committee, Ms. Trujillo described her trip to Washington D.C. with the Salinity Forum's Executive Director Don Barnett. The trip consisted of four full days of meetings with congressional and administration staff on the importance and success of the Salinity Control Program in the Basin. Ms. Trujillo reported receiving positive feedback from these meetings. There were no specific requests for legislative amendments to the Program but there are always opportunities to expand salinity control in the Upper Basin. Ms. Trujillo reported that the meetings were an opportunity to describe the importance of the Paradox Valley Unit project and its operations.

The Forum is meeting for four days in May in Salt Lake City, Utah. One of the highlights of the meetings will be a tour of a salt mine facility in the Salt Lake area that is directly adjacent to a migratory bird refuge area. This would be an opportunity to examine the viability of a brine evaporation pond facility located very close to a migratory bird facility. Ms. Trujillo anticipated some interesting discussions during the tour with representatives from the Fish and Wildlife Service and other federal agencies. The Board continues to participate as one of the cooperating agencies on the Paradox Valley Unit Alternative Study/EIS process. The EIS process continues to be on track and is anticipated to be completed next fall. Part of the process involves expert review boards to provide input to the EIS team. The EIS team has received reports on the maximum allowable surface pressure for the current well, which will help determine siting for a replacement well. Another report was also received on evaporation ponds as an alternative to an injection well as a means of disposal of the salt produced. Ms. Trujillo

reported that the technical issues associated with these two reports are currently being examined.

Vice Chairman Wilson commented that he is pleased that the Salinity Control Forum is pushing for an earlier EIS completion and maintaining a viable emergency plan, but he remains concerned about the potential economic damages that may occur if the disposal well fails. Mr. Wilson urged the Board representatives on the Forum to continue to push hard on this issue. Ms. Trujillo responded that the same message was conveyed during her Washington D.C. trip to ensure the EIS gets completed and to get funding for the implementation of the alternative. Ms. Trujillo planned to take these messages to the Forum meeting next week.

#### Review status of the Glen Canyon Dam Adaptive Management Work Group and Long-Term Experimental and Management Plan EIS

Ms. Trujillo reported that the EIS is still progressing in the Glen Canyon Dam Program. A draft report is expected to be released to the cooperating agencies this month or the next. A public draft report is expected this summer. The Adaptive Management Work Group met at the end of April to address budget issues and the general operations of the program. The next Work Group meeting is scheduled for the end of May in the form of a webinar.

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

Ms. Trujillo reported that a Steering Committee meeting was held on April 22, 2015. The highlight of that meeting was the approval of the lease for the acquisition of the Planet Ranch property in Arizona. The acquisition will proceed through the environmental review process. The Work Group met in May in Phoenix to review budget issues. The budget for next year is anticipated to be \$39 million for the program. Chris Harris reported that there was a sighting of a Northern Mexican garter snake in the Havasu National Wildlife refuge area by some of the MSCP bird survey groups. It was the first sighting in over a hundred years of that species in the area. Although the species is threatened under the Federal Endangered Species Act, it has no special status under California law. Consultation with Reclamation, Fish and Wildlife Service, and the three states' game and fish agencies would be needed to determine the most appropriate action for this species. Mr. Harris noted that adding this species to the list should not be a major modification nor require any additional mitigation since the MSCP is already doing mitigation for marsh habitats, which is the preferred habitat for this species. Mr. Harris does not anticipate any issue with this species going forward.

### **ADJOURNMENT**

With no further items to be brought before the Board, Chairman Fisher asked for a motion to adjourn the meeting. Upon the motion of Mr. Nelson, seconded Mr. Kuiper, and unanimously carried, the meeting was adjourned at 12:11 P.M.

**RESOLUTION**  
**OF**  
**COLORADO RIVER BOARD**

WHEREAS, the Colorado River Board of California's Fiscal Year 2015-16 budget is \$1,892,000 pursuant to the Budget Act of 2015 and Executive Orders of the Governor; and

WHEREAS, Standard Agreement No. 48 provides for reimbursement of monies to the State of California's General Fund from the Six Agency Committee in support of 100 percent of the costs of the Colorado River Board of California's Fiscal Year 2015-16 budget in the amount of \$1,892,000;

NOW THEREFORE BE IT RESOLVED THAT, the Colorado River Board of California authorizes the Executive Director to execute Standard Agreement No. 48 between the Colorado River Board of California and the Six Agency Committee.

Dated: \_\_\_\_\_

Dana B. Fisher, Jr.  
Chairman



## **EXHIBIT A**

WHEREAS, pursuant to Part 5 of Division 6 of the California Water Code, the Colorado River Board of California has the duty and responsibility to protect the rights and interests of the State of California, its agencies and citizens in the water and power resources of the Colorado River System; and

WHEREAS, the 2015-16 State Budget sets forth an expenditure program for the Colorado River Board of California in the amount of \$1,892,000.00; and

WHEREAS, the 2015-16 State Budget does not provide for General Fund support to the Board; and

WHEREAS, the State Agency and Contractor consider that it is in the best interest of the people of the State of California to maintain the program set forth in the 2016-16 State Budget, and to carry out this objective, State Agency and Contractor agree that the Contractor shall fund and the State Agency shall accept the cost of said budget in the amount of \$1,892,000.00, as modified by subsequent adjustments pursuant to the Budget Act of 2015 and Executive Orders of the Governor and in accordance with Exhibit B;

NOW, THEREFORE, State Agency and Contractor hereby agree to the terms and conditions set forth in Exhibit B.

## **EXHIBIT B**

The State Agency shall provide the program set forth in the 2015-16 State Budget within the total expenditure of \$1,892,000.00 as modified by subsequent adjustments pursuant to the Budget Act of 2015 and Executive Orders of the Governor;

The Contractor shall pay the sum of \$1,892,000.00 toward said 2015-16 State Budget, such payment to be made no later than August 30, 2015. Said funds will be used to pay California's share of the funding of the seven-state Colorado River Basin Salinity Control Forum, and related activities, the Lower Colorado River Multi-Species Conservation Program and salaries, benefits and operating expenses to support activities of the Colorado River Board.

In the event at the end of the 2015-16 FY there remains an unexpended balance of the sum set forth in the 2015-16 State Budget for the Colorado River Board plus any additional funds advanced to the State Agency, State Agency shall reimburse to Contractor a sum equal to the said balance.

RESOLUTION  
of the  
COLORADO RIVER BOARD OF CALIFORNIA  
Regarding  
Potential Applicant to Receive  
Lower Colorado Water Supply Project Water  
2015-2

**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 River 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 County, Riverside and Imperial Counties; and

**WHEREAS**, the Colorado River Board provides recommendations to 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**, the staff of the Colorado River Board on June 10, 2015, submitted the eligible applicant to the Board for its recommendations;

**NOW, THEREFORE, BE IT RESOLVED THAT** the Colorado River Board hereby recommends subcontracts for Project water be offered to the applicant listed on the attachment and directs the Executive Director to forward the application to Reclamation with its recommendation with the following provisos:

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

County	Numbers of Parcels	Current Use (AF/YR)	Future Use (AF/YR)	Total Use (AF/YR)
Imperial	1	3	3	6

- (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 2015.

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Dana B. Fisher, Jr., Chairman



Jun 01, 2015

## LOWER COLORADO WATER SUPPLY REPORT

River Operations  
Bureau of Reclamation

Questions: [BCOOWaterops@usbr.gov](mailto:BCOOWaterops@usbr.gov)

(702) 293-8373

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

	PERCENT	Content 1000 ac-ft (kaf)	Elev. (Feet above mean sea level)	7-Day Release (CFS)
CURRENT STORAGE	FULL			
LAKE POWELL	47%	11,491	3597.27	11,200
* LAKE MEAD	37%	9,729	1076.57	12,300
LAKE MOHAVE	94%	1,707	643.30	13,600
LAKE HAVASU	95%	590	448.50	9,500
TOTAL SYSTEM CONTENTS **	49%	29,060		
As of 05/31/2015				
SYSTEM CONTENT LAST YEAR	49%	29,038		
* Percent based on capacity of 26,120 kaf or elevation 1219.6 feet.				
** TOTAL SYSTEM CONTENTS includes Upper & Lower Colorado River Reservoirs, less Lake Mead exclusive flood control space.				
Salt/Verde System	56%	1,284		
Painted Rock Dam	0%	0	535.13	0
Alamo Dam	6%	63	1,092.70	25
Forecasted Water Use for Calendar Year 2015 (as of 06/01/2015) (values in kaf)				
NEVADA			265	
SOUTHERN NEVADA WATER SYSTEM				233
OTHERS				32
CALIFORNIA			4,283	
METROPOLITAN WATER DISTRICT OF CALIFORNIA				846
IRRIGATION DISTRICTS				3,299
OTHERS				138
ARIZONA			2,745	
CENTRAL ARIZONA PROJECT				1,562
OTHERS				1,183
TOTAL LOWER BASIN USE				7,292
DELIVERY TO MEXICO - 2015 (Mexico Scheduled Delivery + Preliminary Yearly Excess <sup>1</sup> )				1,529
OTHER SIGNIFICANT INFORMATION				
UNREGULATED INFLOW INTO LAKE POWELL - MAY MID MONTH FORECAST DATED 05/19/2015				
		MILLION ACRE-FEET	% of Normal	
FORECASTED WATER YEAR 2015		7.151	66%	
FORECASTED APRIL-JULY 2015		3.750	52%	
APRIL OBSERVED INFLOW		0.639	61%	
MAY INFLOW FORECAST		1.300	55%	
		Upper Colorado Basin	Salt/Verde Basin	
WATER YEAR 2015 PRECIP TO DATE		89% (21.0")	79% (14.8")	
CURRENT BASIN SNOWPACK <sup>2</sup>		144% (3.6")	NA% (NA)	

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

<sup>2</sup> This late in the water year, snowpack values may not provide a valid measure of conditions.

**U.S. BUREAU OF RECLAMATION  
LOWER COLORADO REGION  
CY 2015**

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)

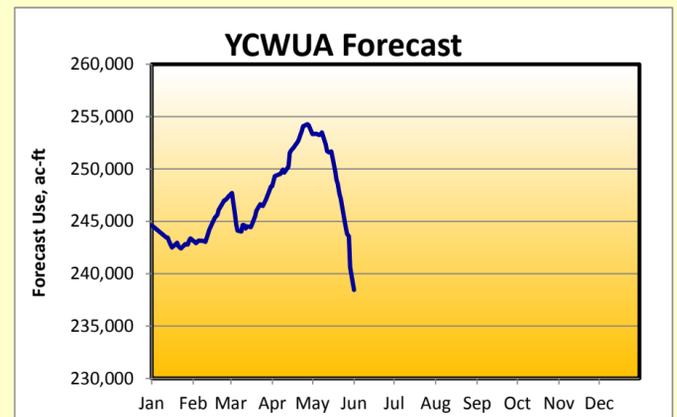
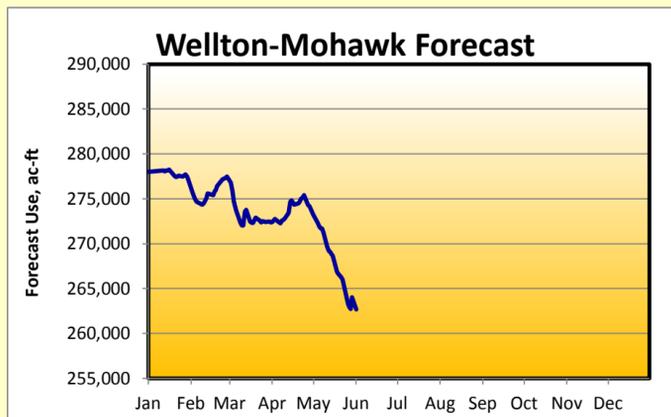
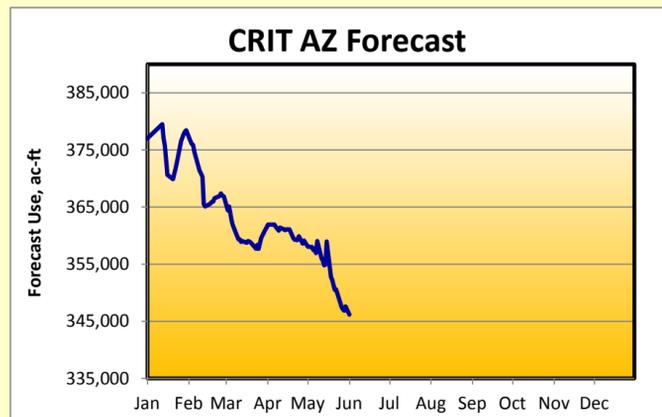
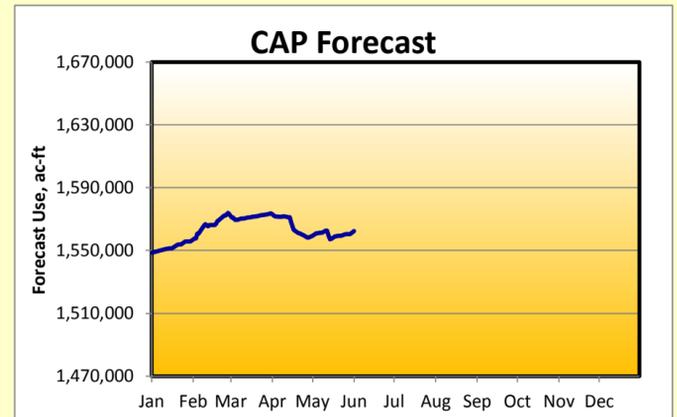
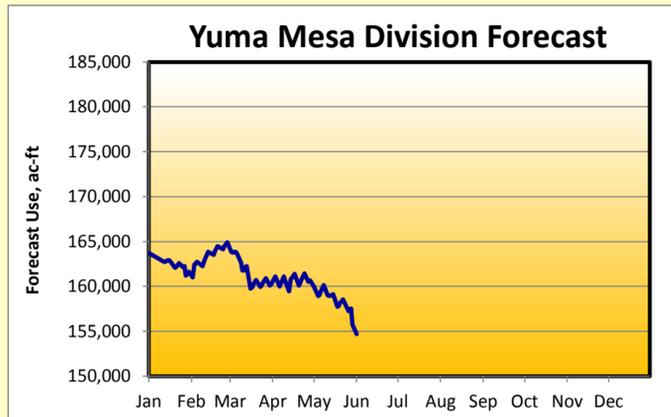
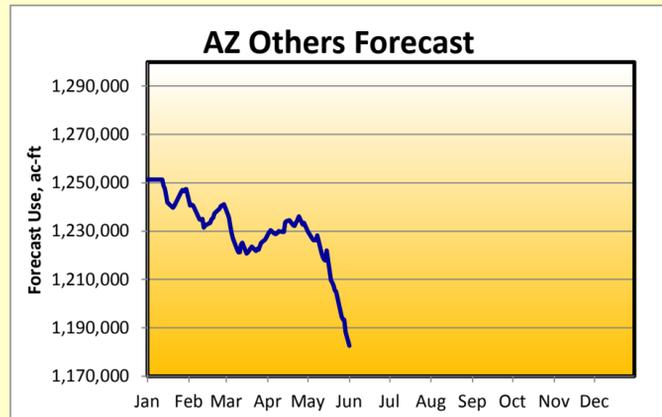
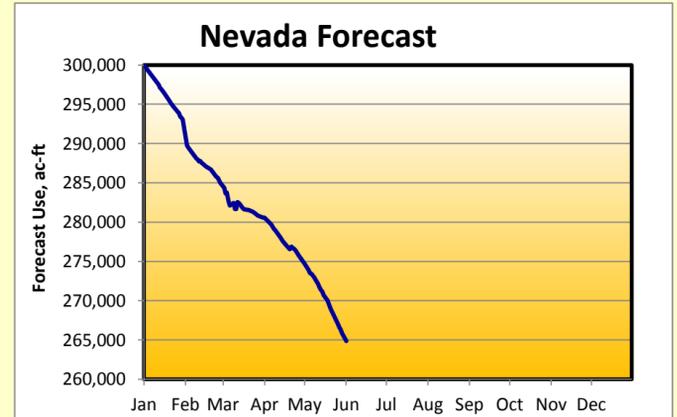
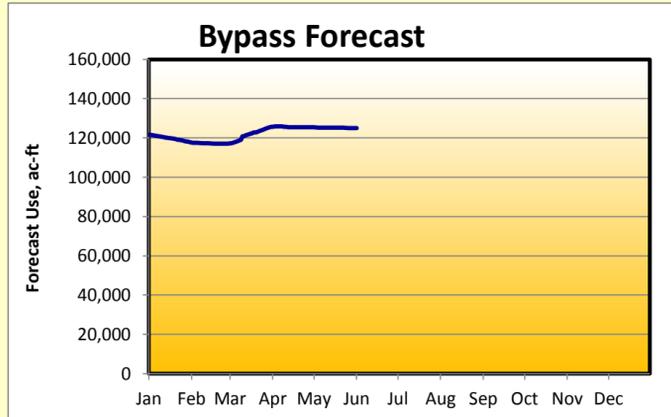
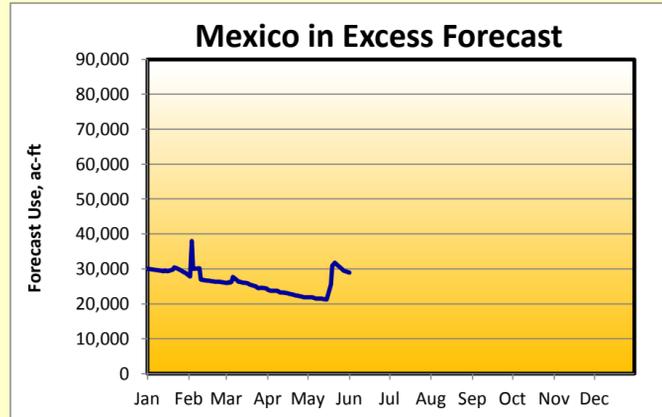
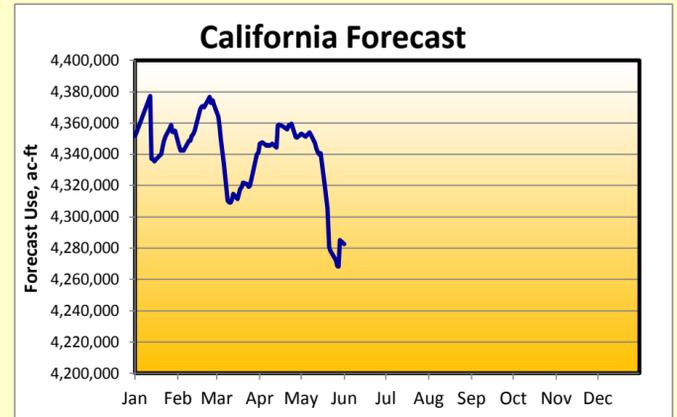
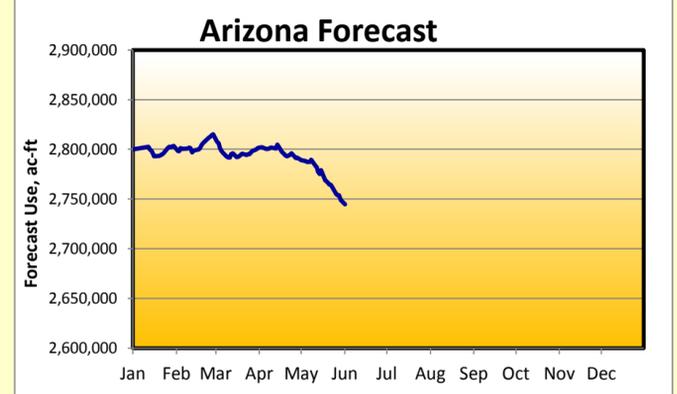
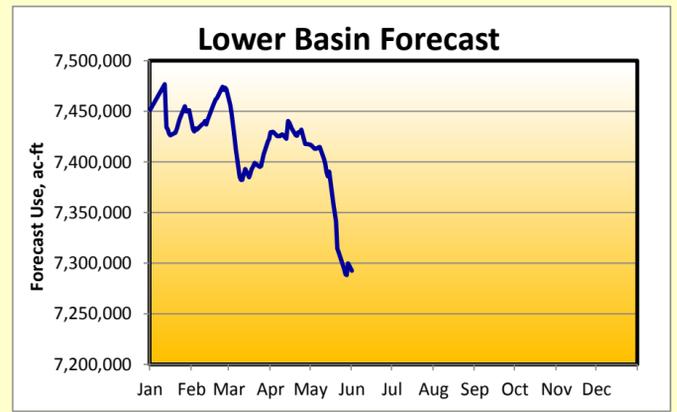
<b>WATER USE SUMMARY</b>	<b>Use To Date CY2015</b>	<b>Forecast Use CY2015</b>	<b>Approved Use<sup>2</sup> CY2015</b>	<b>Excess to Approval CY2015</b>
ARIZONA	1,237,151	2,744,864	2,799,878	-55,014
CALIFORNIA	1,822,928	4,282,708	4,351,727	-69,019
NEVADA	75,994	264,880	300,000	-35,120
<b>STATES TOTAL<sup>3</sup></b>	<b>3,136,073</b>	<b>7,292,452</b>	<b>7,451,605</b>	<b>-159,153</b>
MEXICO IN SATISFACTION OF TREATY (Including downward delivery) TO MEXICO AS SCHEDULED	860,052 848,636	1,528,916 1,500,000	1,500,000	<b>28,916</b>
MEXICO IN EXCESS OF TREATY BYPASS PURSUANT TO MINUTE 242	11,416 46,785	28,916 124,996		
<b>TOTAL LOWER BASIN &amp; MEXICO</b>	<b>4,042,910</b>	<b>8,946,364</b>		

1/ Incorporates Jan-Apr USGS monthly data and 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.

NOTE: Use to date values have been updated with April USGS Provisional data as well as monthly reported data. [5-29-2015]



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, MWD, and Robt.B.Griffith may adjust use rates to meet state entitlements as higher priority use deviates from schedule. Abrupt changes in the forecast use line may be due to a diversion schedule change or monthly updating of provisional realtime diversions.

**U.S. BUREAU OF RECLAMATION  
LOWER COLORADO REGION  
CY 2015**

**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.

**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	Use	Forecast	Estimated	Excess to	Diversion	Forecast	Approved	Excess to
	To Date	Use	Use	Estimated	To Date	Diversion	Diversion	Approved
	CY2015	CY2015	CY2015	CY2015	CY2015	CY2015	CY2015	CY2015
CALIFORNIA PUMPERS	741	1,680	1,680	---	1,345	3,047	3,047	0
FORT MOJAVE INDIAN RESERVATION, CA	3,986	8,032	8,996	---	7,410	14,930	16,720	-1,790
CITY OF NEEDLES (includes LCWSP use)	852	1,931	1,931	0	1,200	2,720	2,720	0
METROPOLITAN WATER DISTRICT	454,409	845,645	768,208	---	455,619	848,603	771,299	---
COLORADO RIVER INDIAN RESERVATION, CA	1,433	3,246	3,246	---	2,374	5,378	5,378	0
PALO VERDE IRRIGATION DISTRICT	154,418	421,304	431,782	---	339,594	908,594	946,750	-38,156
YUMA PROJECT RESERVATION DIVISION	26,440	48,719	48,586	---	47,354	102,454	104,200	-1,746
YUMA PROJECT RESERVATION DIVISION - INDIAN UNIT	---	---	---	---	24,446	49,446	50,200	-754
YUMA PROJECT RESERVATION DIVISION - BARD UNIT	---	---	---	---	22,908	53,008	54,000	-992
YUMA ISLAND PUMPERS	2,059	4,665	4,665	---	3,730	8,452	8,452	0
FORT YUMA INDIAN RESERVATION - RANCH 5	298	675	675	---	539	1,221	1,221	0
IMPERIAL IRRIGATION DISTRICT	1,017,070	2,472,638	2,602,481	-129,843	1,004,343	2,526,382	2,706,070	---
SALTON SEA SALINITY MANAGEMENT	28,155	121,636	121,636	0	29,547	126,826	126,826	---
COACHELLA VALLEY WATER DISTRICT	132,696	351,696	357,000	-5,304	137,877	367,045	371,671	---
OTHER LCWSP CONTRACTORS	296	671	671	---	470	1,066	1,066	0
CITY OF WINTERHAVEN	30	68	68	---	45	103	103	0
CHEMEHUEVI INDIAN RESERVATION	45	102	102	---	5,005	11,340	11,340	0
<b>TOTAL CALIFORNIA</b>	<b>1,822,928</b>	<b>4,282,708</b>			<b>2,036,452</b>	<b>4,928,161</b>	<b>5,076,863</b>	

**CALIFORNIA ADJUSTED APPORTIONMENT CALCULATION**

California Basic Apportionment	4,400,000
Conservation for Salton Sea Restoration - 2010 <sup>1</sup>	-23,273
Creation of Extraordinary Conservation ICS (IID)	-25,000
Creation of Extraordinary Conservation ICS (MWD)	
Total State Adjusted Apportionment	4,351,727
Excess to Total State Adjusted Apportionment	-69,019

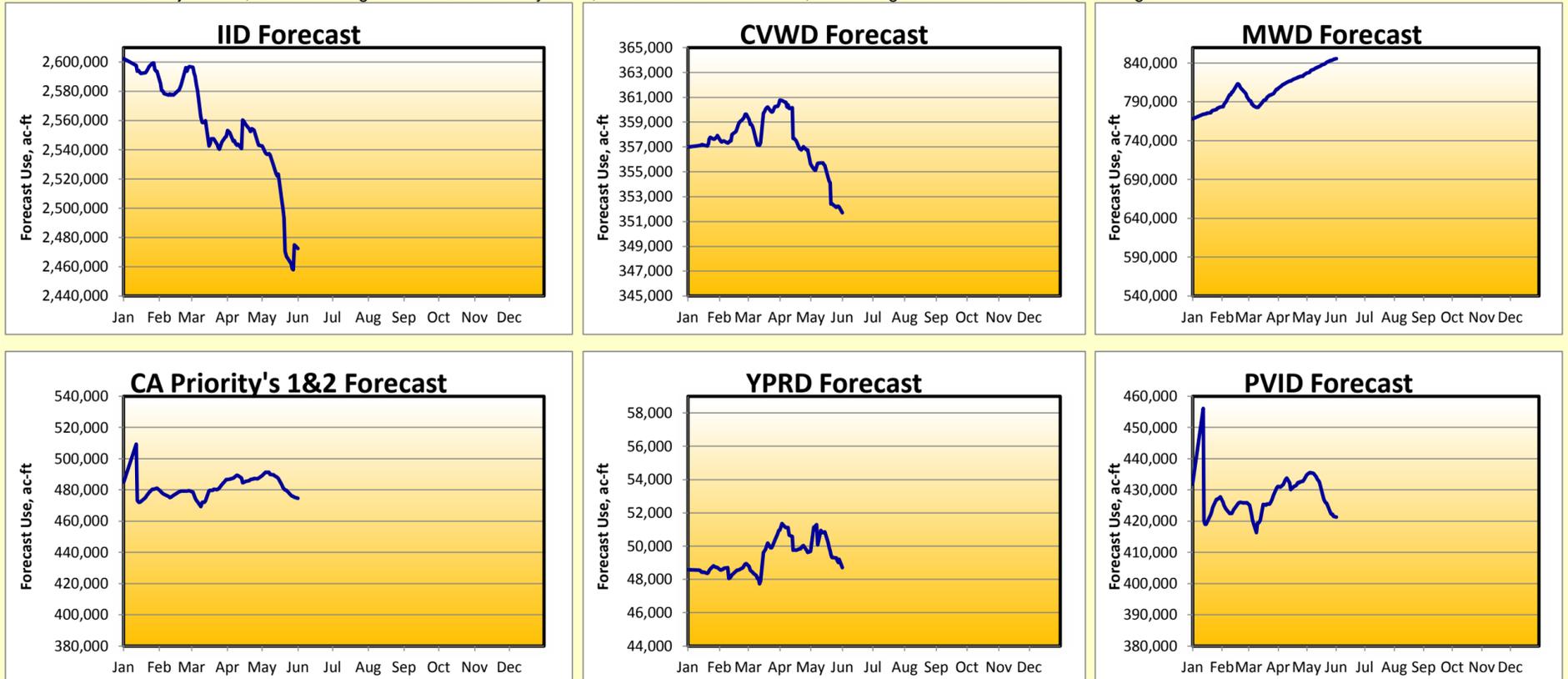
**ISG ANNUAL TARGET COMPARISON CALCULATION**

Priorities 1, 2, 3b Use (PVID+YPRD+Island+PVID Mesa)	474,688
MWD Adjustment	-54,688
Total California Agricultural Use (PVID+YPRD+Island+IID+CVWD)	3,299,022
California Agricultural Paybacks	23,273
Misc. PPRs Covered by IID and CVWD	14,500
California ICS Creation (IID ICS)	25,000
Total Use for Target Comparison <sup>2</sup>	3,307,107
ISG Annual Target (Exhibit B)	3,448,000
Amount over/(under) ISG Annual Target	-140,893

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

1/ Pending approval by Imperial Irrigation District's Board of Directors.

2/ Includes MWD Adjustment, California Agricultural Use and Paybacks, IID-CVWD covered PPRs, and taking out the MWD-CVWD Exchange



**U.S. BUREAU OF RECLAMATION  
LOWER COLORADO REGION  
CY 2015**

**NOTE:**  
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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 \(Water Accounting Reports\)](#)

<u>WATER USER</u>	<u>Use To Date CY2015</u>	<u>Forecast Use CY2015</u>	<u>Estimated Use CY2015</u>	<u>Excess to Estimated Use CY2015</u>	<u>Diversion To Date CY2015</u>	<u>Forecast Diversion CY2015</u>	<u>Approved Diversion CY2015</u>	<u>Excess to Approved Diversion CY2015</u>
ARIZONA PUMPERS	7,751	17,561	17,561	---	11,996	27,181	27,181	0
LAKE MEAD NRA, AZ - Diversions from Lake Mead	59	159	159	---	59	159	159	0
LAKE MEAD NRA, AZ - Diversions from Lake Mohave	65	183	183	---	65	183	183	0
DAVIS DAM PROJECT	1	2	2	---	33	75	75	0
BULLHEAD CITY	2,683	8,057	8,523	---	4,004	12,024	12,720	-696
MOHAVE WATER CONSERVATION	245	556	556	---	367	831	831	0
BROOKE WATER LLC	91	207	207	---	137	311	311	0
MOHAVE VALLEY IDD	6,763	20,279	22,260	---	12,524	37,552	41,220	-3,668
FORT MOJAVE INDIAN RESERVATION, AZ	14,809	41,269	42,390	---	27,424	76,424	78,500	-2,076
GOLDEN SHORES WATER CONSERVATION DISTRICT	139	316	316	---	209	473	473	0
HAVASU NATIONAL WILDLIFE REFUGE	1,669	3,626	3,563	---	13,917	36,877	41,820	-4,943
LAKE HAVASU CITY	2,810	8,359	8,928	---	4,534	13,484	14,400	-916
CENTRAL ARIZONA PROJECT	767,748	1,562,220	1,548,550	---	767,748	1,562,220	1,548,550	---
TOWN OF PARKER	128	363	352	---	309	891	920	-29
COLORADO RIVER INDIAN RESERVATION, AZ	122,239	346,188	376,964	---	246,372	650,987	662,402	-11,415
EHRENBURG IMPROVEMENT ASSOCIATION	113	256	256	---	159	361	361	0
CIBOLA VALLEY IRRIGATION DISTRICT	7,481	16,951	16,951	---	10,463	23,707	23,707	0
CIBOLA NATIONAL WILDLIFE REFUGE	5,623	12,741	12,741	0	9,070	20,550	20,550	0
IMPERIAL NATIONAL WILDLIFE REFUGE	1,155	2,616	2,616	0	1,864	4,224	4,224	0
YUMA PROVING GROUND	153	535	550	---	153	535	550	-15
GILA MONSTER FARMS	1,840	4,297	5,244	---	3,158	7,665	9,156	-1,491
WELLTON-MOHAWK IDD	105,281	262,691	278,000	-15,309	159,503	407,903	424,350	---
CITY OF YUMA	5,032	15,350	17,051	-1,701	9,572	25,772	27,318	-1,546
MARINE CORPS AIR STATION YUMA	552	1,399	1,305	---	552	1,399	1,305	<b>94</b>
UNION PACIFIC RAILROAD	10	24	24	---	20	48	48	0
UNIVERSITY OF ARIZONA	245	701	764	---	245	701	764	-63
YUMA UNION HIGH SCHOOL DISTRICT	49	179	193	---	65	236	253	-17
DESERT LAWN MEMORIAL	40	91	91	---	57	129	129	0
NORTH GILA VALLEY IDD	5,776	10,263	10,099	---	20,249	43,249	41,000	<b>2,249</b>
YUMA IRRIGATION DISTRICT	18,410	40,090	42,581	---	32,343	73,143	75,900	-2,757
YUMA MESA IDD	38,056	104,331	111,022	---	66,909	189,228	204,904	-15,676
UNIT "B" IRRIGATION DISTRICT	7,185	18,012	17,330	---	10,289	27,789	28,050	-261
FORT YUMA INDIAN RESERVATION	616	1,396	1,396	---	948	2,149	2,149	0
YUMA COUNTY WATER USERS' ASSOCIATION	111,614	238,420	244,599	---	169,343	381,343	388,000	-6,657
COCOPA INDIAN RESERVATION	669	5,060	6,457	---	1,024	7,724	9,840	-2,116
RECLAMATION-YUMA AREA OFFICE	51	116	116	---	51	116	116	0
RETURN FROM SOUTH GILA WELLS								
<b>TOTAL ARIZONA</b>	<b>1,237,151</b>	<b>2,744,864</b>	<b>2,799,900</b>		<b>1,585,735</b>	<b>3,637,643</b>	<b>3,692,419</b>	
CAP	767,748	1,562,220				1,562,220		
ALL OTHERS	469,403	1,182,644	1,251,350			2,075,423	2,143,869	
YUMA MESA DIVISION, GILA PROJECT	62,242	154,684	350,000	-195,316		305,620		

**ARIZONA ADJUSTED APPORTIONMENT CALCULATION**

Arizona Basic Apportionment	2,800,000
Payback of IOPP overruns - (Cocopah and Beattie)	-122
CAGR/YMIDD Pilot Conservation Program <sup>1</sup>	
Total State Adjusted Apportionment	2,799,878
Excess to Total State Adjusted Apportionment	-55,014
Estimated Allowable Use for CAP	1,618,248

1/ CAWCD has agreed to forebear 9,000 acre-feet during phase one of the study, during which time CAGR/D will refine the estimate of the actual conservation yield of the program.  
 NOTES: Click on Arizona Schedules and Approvals above for incoming diversion schedules and approvals.

**U.S. BUREAU OF RECLAMATION  
LOWER COLORADO REGION  
CY 2015**

**NOTE:**  
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**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 \(Water Accounting Reports\)](#)

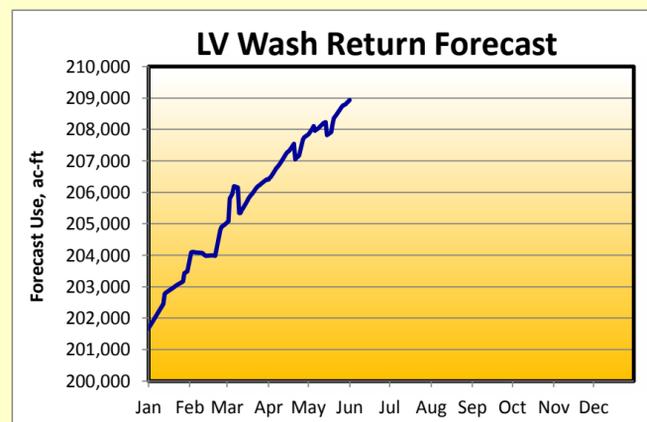
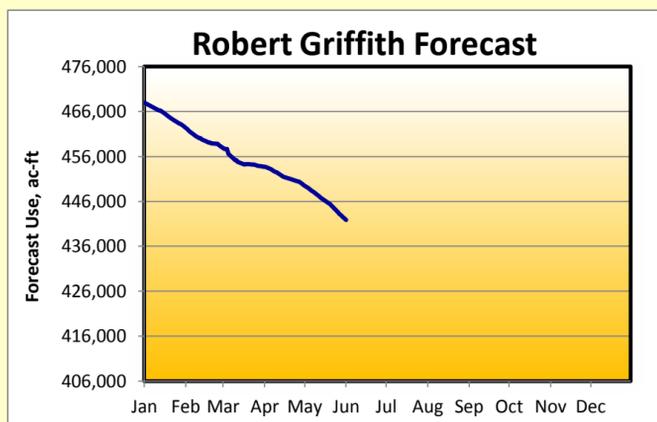
<b>WATER USER</b>	<b>Use To Date CY2015</b>	<b>Forecast Use CY2015</b>	<b>Estimated Use CY2015</b>	<b>Excess to Estimated Use CY2015</b>	<b>Diversion To Date CY2015</b>	<b>Forecast Diversion CY2015</b>	<b>Approved Diversion CY2015</b>	<b>Excess to Approved Diversion CY2015</b>
ROBERT B. GRIFFITH WATER PROJECT (SNWS)	155,837	441,874	467,935	-26,061	155,837	441,874	467,935	-26,061
LAKE MEAD NRA, NV - Diversions from Lake Mead	143	417	422	---	143	417	422	-5
LAKE MEAD NRA, NV - Diversions from Lake Mohave	68	176	166	---	68	176	166	10
BASIC MANAGEMENT INC.	2,179	7,888	8,211	---	2,179	7,888	8,211	-323
CITY OF HENDERSON (BMI DELIVERY)	6,265	15,367	15,878	---	6,265	15,367	15,878	-511
NEVADA STATE DEPT. OF FISH & GAME	4	11	12	-1	189	411	363	---
PACIFIC COAST BUILDING PRODUCTS INC.	368	925	923	---	368	925	923	2
BOULDER CANYON PROJECT	77	174	174	---	133	302	302	0
BIG BEND WATER DISTRICT	674	3,546	4,061	---	1,968	8,162	10,000	-1,838
FORT MOJAVE INDIAN TRIBE	1,227	3,438	3,886	---	1,832	5,132	5,800	-668
LAS VEGAS WASH RETURN FLOWS	-90,848	-208,936	-201,668	---				
<b>TOTAL NEVADA</b>	<b>75,994</b>	<b>264,880</b>	<b>300,000</b>	<b>-26,062</b>	<b>168,982</b>	<b>480,654</b>	<b>510,000</b>	<b>-29,394</b>
SOUTHERN NEVADA WATER SYSTEM (SNWS)	64,989	232,938				441,874		
ALL OTHERS	11,005	31,942				38,780		
NEVADA USES ABOVE HOOVER	74,093	257,896				467,360		
NEVADA USES BELOW HOOVER	1,901	6,984				13,294		

**Tributary Conservation & Imported Intentionally Created Surplus**

Total Requested Tributary Conservation Intentionally Created Surplus	37,000
Total Requested Imported Conservation Intentionally Created Surplus	9,000
5% System Cut for Creation of Intentionally Created Surplus	-2,300
<b>Total Intentionally Created Surplus Left in Lake Mead</b>	<b>43,700</b>

**NEVADA ADJUSTED APPORTIONMENT CALCULATION**

Nevada Basic Apportionment	300,000
Excess to Total State Adjusted Apportionment	-35,120



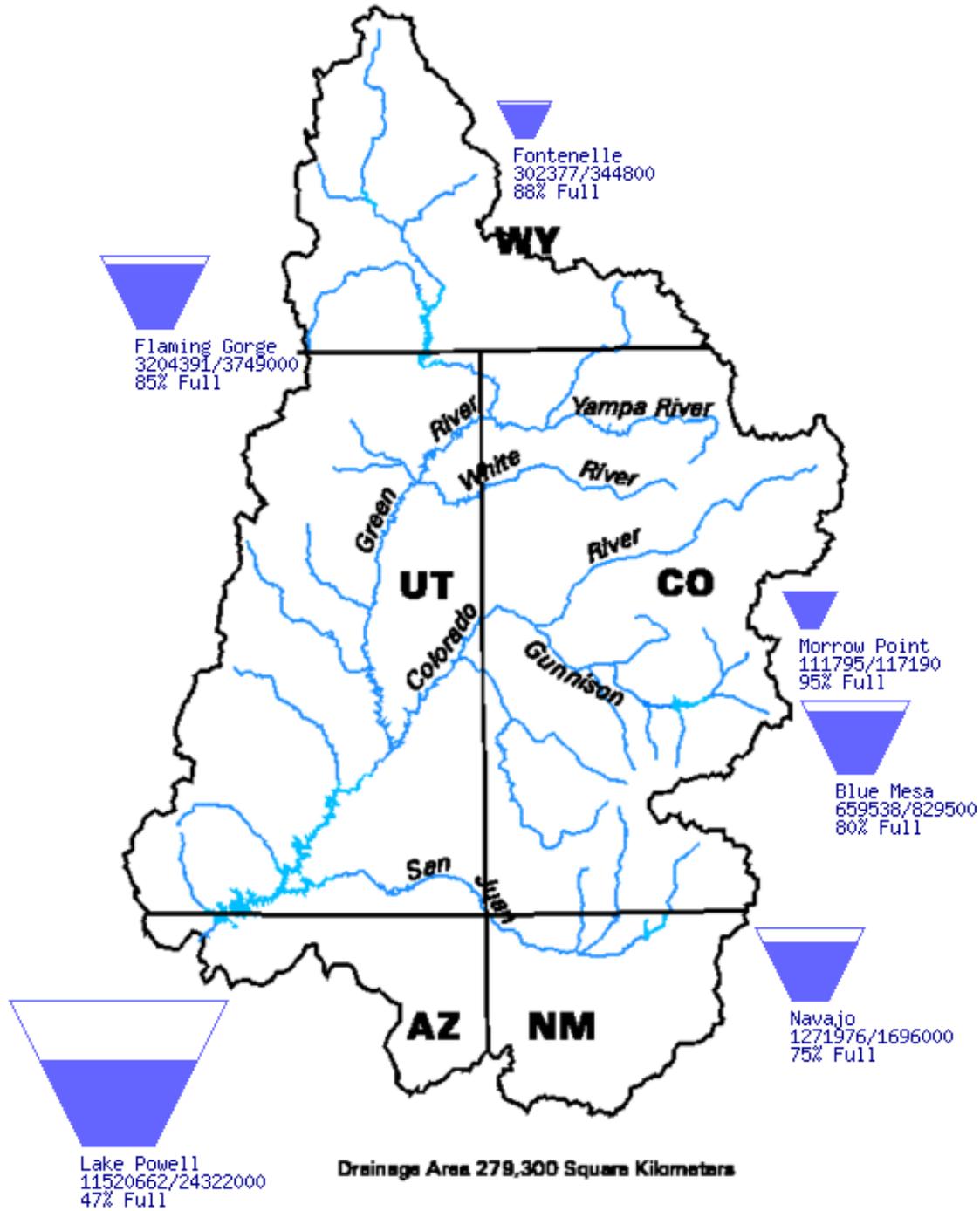
NOTES: Click on Nevada Schedules and Approvals above for incoming diversion schedules and approvals.

# Upper Colorado Region Water Resources Group

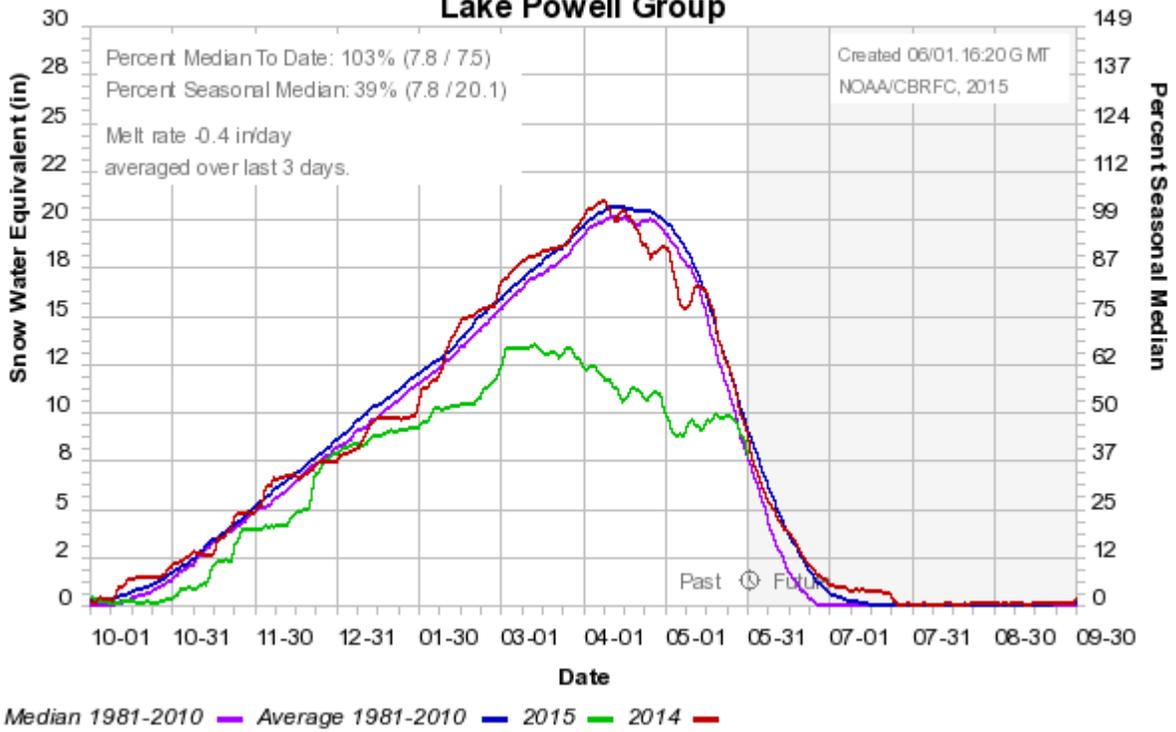
## River Basin Tea-Cup Diagrams

Data Current as of:  
06/01/2015

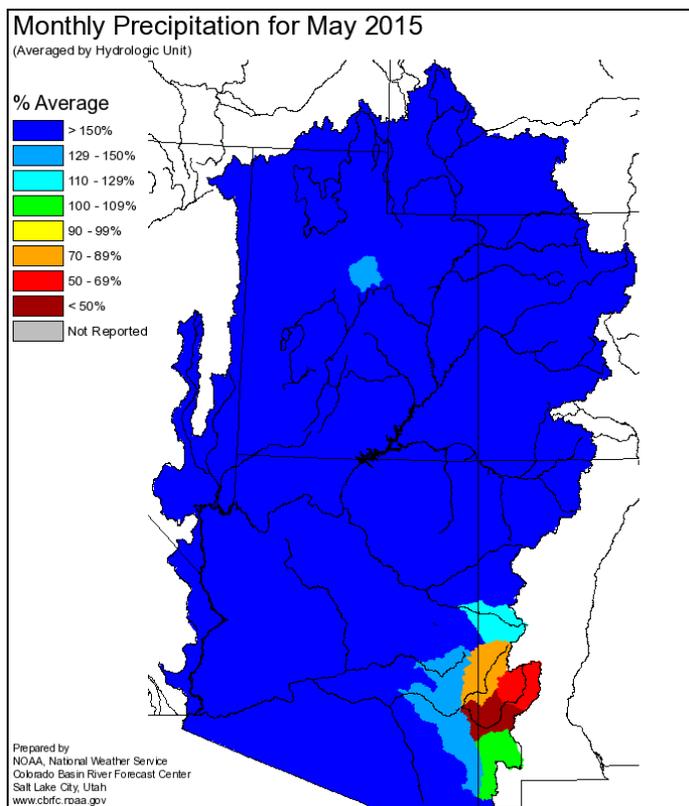
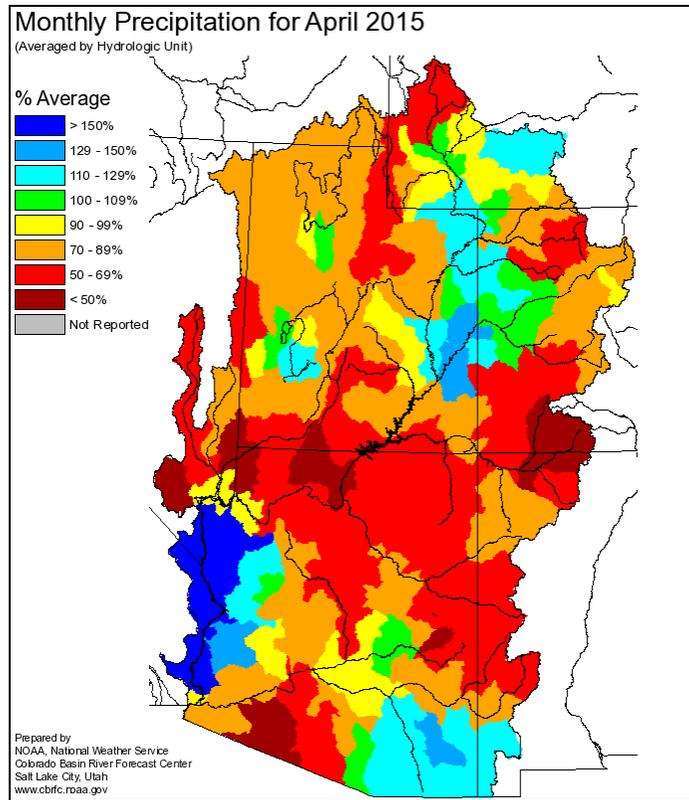
### Upper Colorado River Drainage Basin



# Colorado Basin River Forecast Center Lake Powell Group



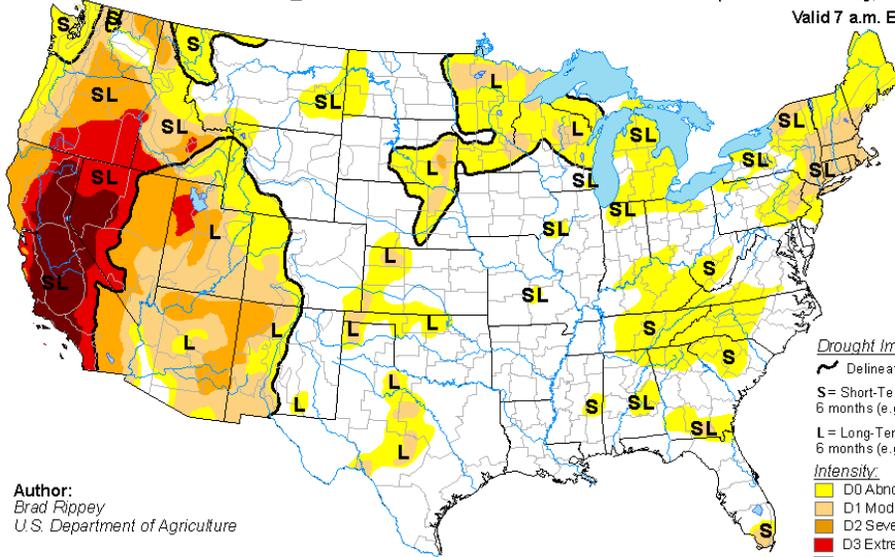
NOAA National Weather Service Monthly Precipitation Maps for April and May 2015



USDA United States Drought Monitor Map

# U.S. Drought Monitor

**May 26, 2015**  
 (Released Thursday, May 28, 2015)  
 Valid 7 a.m. EST



Author:  
 Brad Rippey  
 U.S. Department of Agriculture

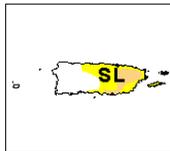
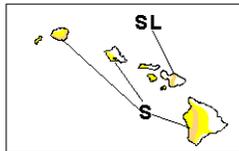
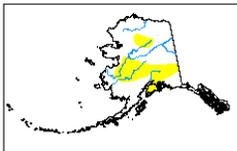
**Drought Impact Types:**

- Delineates dominant impacts
- S** = Short-Term, typically less than 6 months (e.g. agriculture, grasslands)
- L** = Long-Term, typically greater than 6 months (e.g. hydrology, ecology)

**Intensity:**

- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

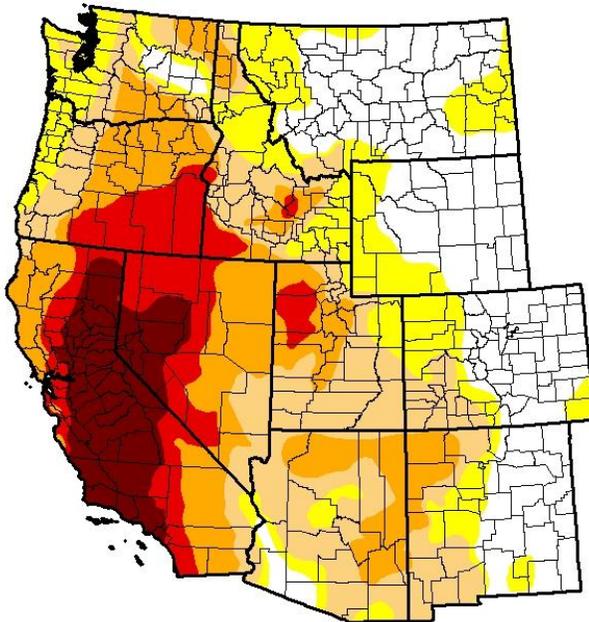
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.



<http://droughtmonitor.unl.edu/>

# U.S. Drought Monitor West

**May 26, 2015**  
 (Released Thursday, May 28, 2015)  
 Valid 7 a.m. EST



**Drought Conditions (Percent Area)**

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
<b>Current</b>	25.37	74.63	57.03	35.92	17.59	7.94
<b>Last Week</b> 5/19/2015	23.49	76.51	60.69	36.57	17.59	7.95
<b>3 Months Ago</b> 2/24/2015	30.07	69.93	59.91	31.06	17.38	7.04
<b>Start of Calendar Year</b> 12/31/2014	34.76	65.24	54.48	33.50	18.68	5.40
<b>Start of Water Year</b> 9/30/2014	31.48	68.52	55.57	35.65	19.95	8.90
<b>One Year Ago</b> 5/27/2014	31.18	68.82	60.38	47.20	20.21	4.31

**Intensity:**

- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

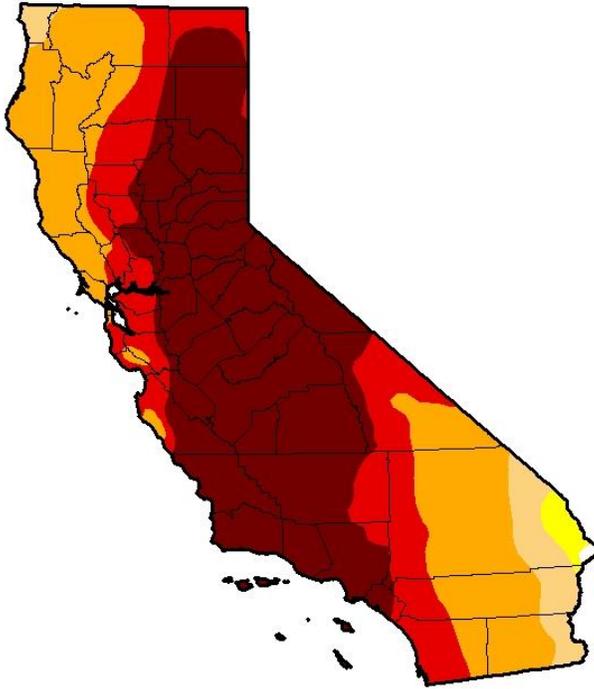
Author:  
 Brad Rippey  
 U.S. Department of Agriculture



<http://droughtmonitor.unl.edu/>

# U.S. Drought Monitor California

**May 26, 2015**  
(Released Thursday, May. 28, 2015)  
Valid 7 a.m. EST



Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
<b>Current</b>	0.14	99.86	98.71	93.91	66.60	46.73
<b>Last Week</b> <i>5/19/2015</i>	0.14	99.86	98.28	93.91	66.60	46.77
<b>3 Months Ago</b> <i>2/24/2015</i>	0.16	99.84	98.10	93.44	67.46	39.92
<b>Start of Calendar Year</b> <i>12/31/2014</i>	0.00	100.00	98.12	94.34	77.94	32.21
<b>Start of Water Year</b> <i>9/30/2014</i>	0.00	100.00	100.00	95.04	81.92	58.41
<b>One Year Ago</b> <i>5/27/2014</i>	0.00	100.00	100.00	100.00	76.68	24.77

Intensity:

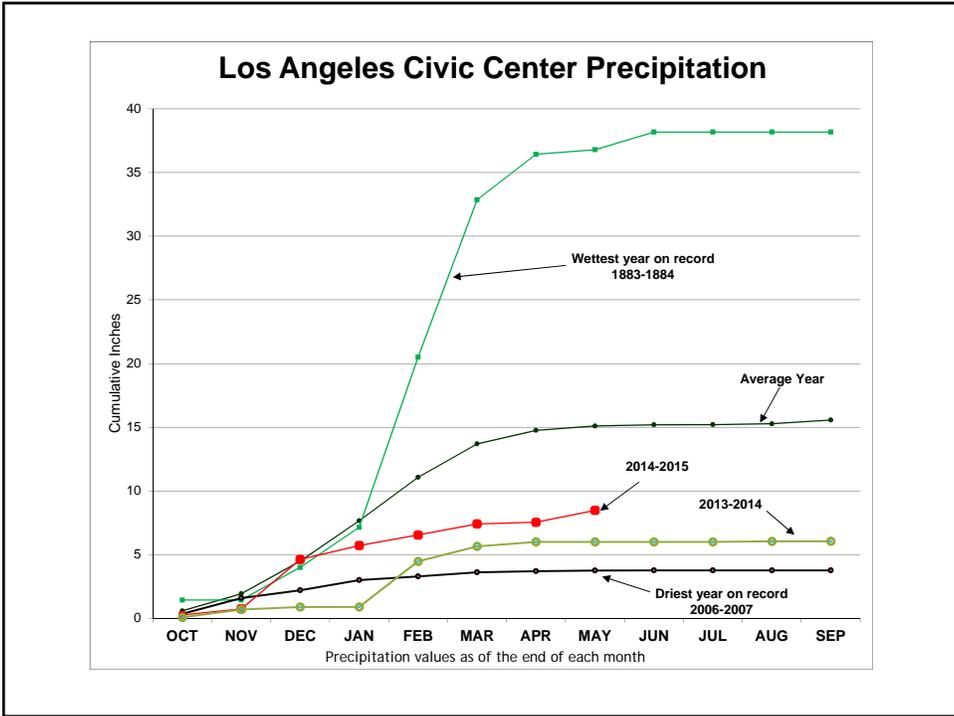
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

*The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.*

**Author:**  
Brad Rippey  
U.S. Department of Agriculture



<http://droughtmonitor.unl.edu/>

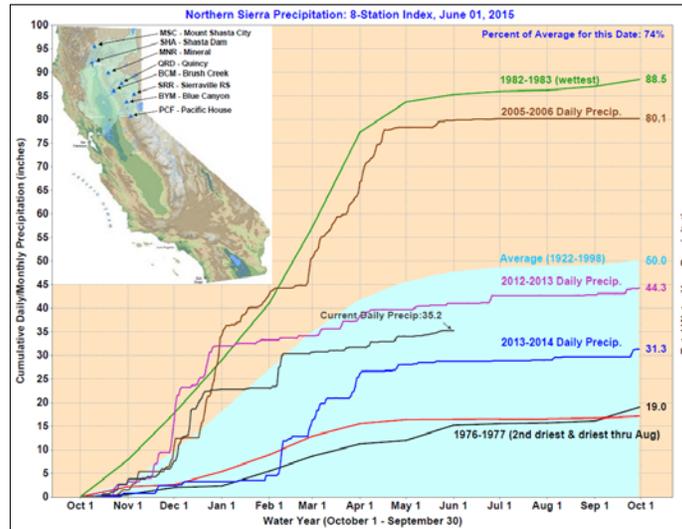


## Precipitation at Six Major Stations in Southern California

From October 1, 2014 to May 31, 2015

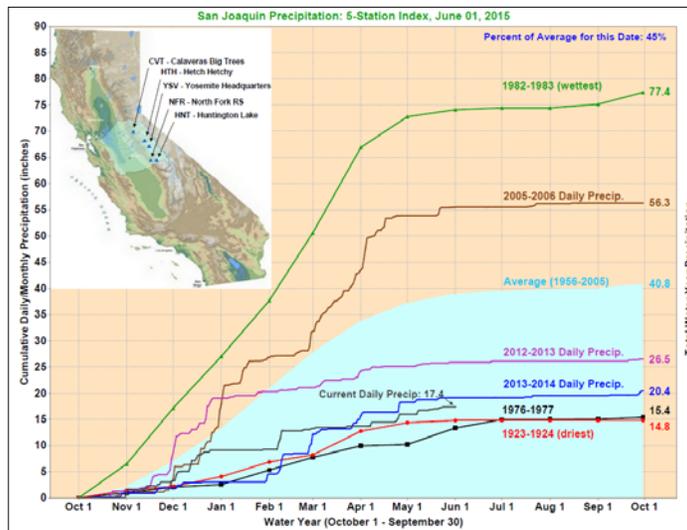
Station	Precipitation in inches		Average to Date	Percent of Average
	May	Oct 1 to May 31		
San Luis Obispo	0.08	7.49	22.00	34%
Santa Barbara	0.32	9.32	17.44	53%
Los Angeles	0.93	8.46	15.09	56%
San Diego	0.72	6.40	9.85	65%
Blythe	0.35	2.79	2.57	109%
Imperial	0.62	1.62	2.18	74%

## Northern Sierra Precipitation-8 Station Index



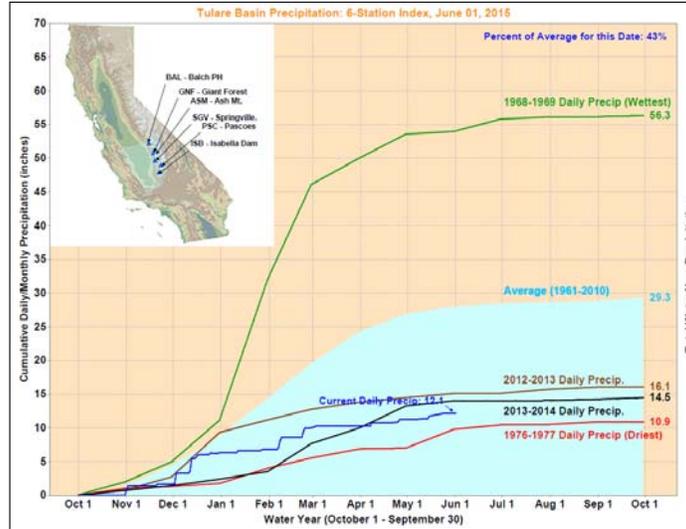
California Data Exchange Center  
[http://cdec.water.ca.gov/cgi-progs/products/PLOT\\_ESI.pdf](http://cdec.water.ca.gov/cgi-progs/products/PLOT_ESI.pdf)

## San Joaquin Precipitation-5 Station Index



California Data Exchange Center  
[http://cdec.water.ca.gov/cgi-progs/products/PLOT\\_FSI.pdf](http://cdec.water.ca.gov/cgi-progs/products/PLOT_FSI.pdf)

### Tulare Basin Precipitation-6 Station Index



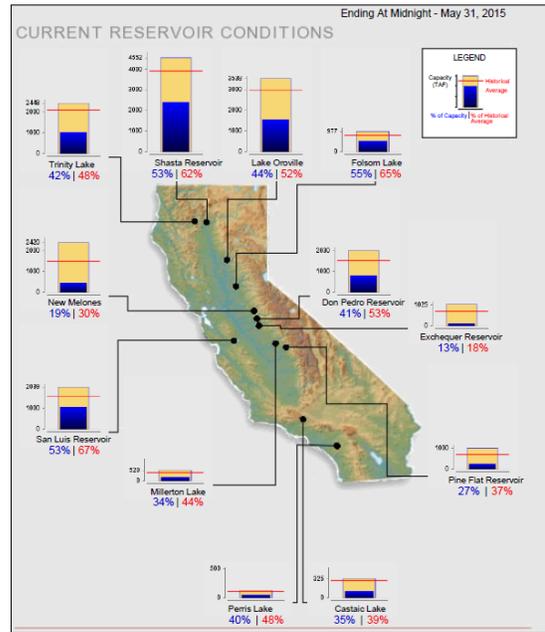
California Data Exchange Center  
[http://cdec.water.ca.gov/cgi-progs/products/PLOT\\_TSI.pdf](http://cdec.water.ca.gov/cgi-progs/products/PLOT_TSI.pdf)

### Comparison of SWP Water Storage

Reservoir	Capacity	2014 Storage (acre-feet)		2015 Storage (acre-feet)	
		As of Jun 1	% of Cap.	As of Jun 1	% of Cap.
Frenchman	55,475	25,704	46%	19,436	35%
Lake Davis	84,371	53,937	64%	45,694	54%
Antelope	22,564	22,555	100%	22,639	100%
Oroville	3,553,405	1,728,656	49%	1,565,380	44%
<b>TOTAL North</b>	<b>3,715,815</b>	<b>1,830,852</b>	<b>49%</b>	<b>1,653,149</b>	<b>44%</b>
Del Valle	39,914	40,404	101%	39,288	98%
San Luis (DWR)	1,062,180	335,478	32%	785,575	74%
Pyramid	169,901	164,510	97%	168,010	99%
Castaic	319,247	201,169	63%	112,652	35%
Silverwood	74,970	70,233	94%	71,416	95%
Perris	126,841	61,303	48%	52,177	41%
<b>TOTAL South</b>	<b>1,793,053</b>	<b>873,097</b>	<b>49%</b>	<b>1,229,118</b>	<b>69%</b>
<b>TOTAL SWP</b>	<b>5,508,868</b>	<b>2,703,949</b>	<b>49%</b>	<b>2,882,267</b>	<b>52%</b>

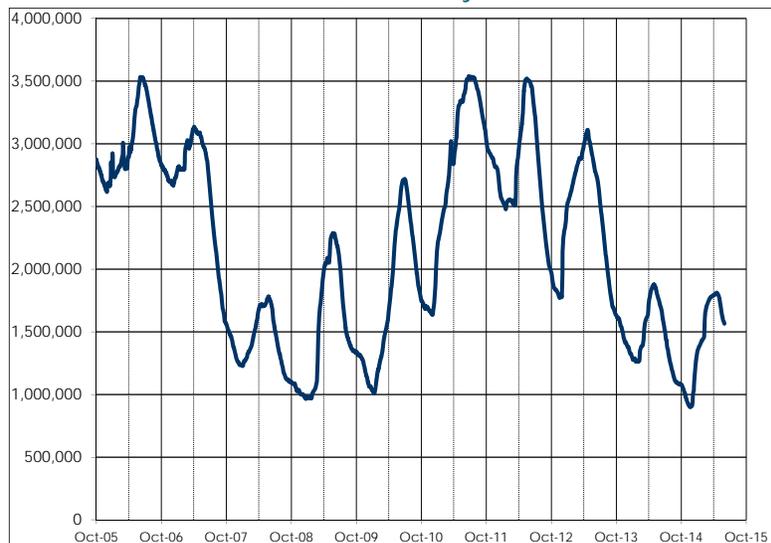
State Water Project Projected Deliveries:  
 As of March 2, 2015, the Table-A allocations for 2015 is 20%

## Current Reservoir Conditions



## Oroville Storage (acre-feet)

October 1, 2005 - May 31, 2015





# United States Department of the Interior

BUREAU OF RECLAMATION  
Lower Colorado Regional Office  
P.O. Box 61470  
Boulder City, NV 89006-1470  
MAY 12 2015

IN REPLY REFER TO:  
LC-4212  
WTR-4.03

CERTIFIED – RETURN RECEIPT REQUESTED

Mr. Kevin E. Kelley  
General Manager  
Imperial Irrigation District  
P.O. Box 937  
Imperial, CA 92251-0937

Subject: Verification of 2014 Inadvertent Overrun Payback by the Imperial Irrigation District  
(IID)

Dear Mr. Kelley:

Effective January 1, 2004, the Inadvertent Overrun and Payback Policy (IOPP) established requirements for payback of inadvertent overuse of Colorado River water by users in the Lower Division States. In calendar year 2014, IID had a payback obligation of 117,391 acre-feet (AF) for overruns IID incurred in 2011 and 2012. In accordance with the IOPP, IID submitted an Inadvertent Overrun Payback Plan for 2014 (Payback Plan) in which IID described the extraordinary conservation measures IID proposed to implement in 2014 to meet its payback obligation. By letter dated September 21, 2013, the Bureau of Reclamation approved IID's Payback Plan.

IID's IOPP certification report, dated February 26, 2015, certified the extraordinary conservation measures implemented by IID in 2014 and the amount of Colorado River water conserved for purposes of meeting IID's 2014 payback obligation. As outlined in IID's IOPP certification report, IID implemented three approved conservation measures in 2014 to meet its IOPP payback obligation: the Main Canal Seepage Interception System (MCSIS), the Following program, and the On-Farm Efficiency Conservation program. IID's IOPP certification report notes that the primary objective in implementing these conservation measures was the satisfaction of IID's conservation, transfer, and mitigation obligations under the 2003 Quantification Settlement Agreement and Related Agreements (QSA), although implementation schedules and conservation targets were accelerated and increased to meet IOPP obligations. Colorado River water conserved from these measures was first applied to meet IID's 2014 QSA obligations, then to meet IID's 2014 IOPP payback obligation.

The IOPP requires that Reclamation monitor implementation of the extraordinary conservation measures outlined in approved payback plans. Reclamation conducted semi-annual independent field verification inspections in 2014 on randomly selected fields accounting for 5 percent of the total acreage enrolled in the Fallowing Program, 5 percent of the project pumps that were operated as part of the MCSIS, and on 2.5 percent of the acreage for which proposals were submitted under its On-Farm Efficiency Conservation program. Reclamation's reports entitled, *Imperial Irrigation District Extraordinary Conservation Verification Report March 2014* and *Imperial Irrigation District Extraordinary Conservation Verification Report October 2014* were previously provided to IID.

The Inadvertent Overrun and Payback Technical Committee (IOPTC) met on April 16, 2015, to review IID's 2014 IOPP certification report and to provide a recommendation regarding the adequacy of the report in demonstrating the achieved payback amount. The IOPTC recommended IID be credited with a total 117,391 AF of payback for calendar year 2014, based on the following program conservation amounts: 1,231 AF from MCSIS, 111,789 AF from its Fallowing program, and 4,371 AF from its On-Farm Efficiency Conservation program.

Taking into consideration the recommendations provided by the members of the IOPTC, Reclamation's field verification, and other information, I verify and make the final determination that IID conserved 117,391 AF of Colorado River water during 2014 as documented in IID's 2014 IOPP certification report, and credit IID with this amount of payback for 2014. Applying the 117,391 AF of payback credit fully extinguishes IID's IOPP payback obligation for its calendar years 2011 and 2012 overruns.

If you have questions, please contact Mr. Paul Matuska, Water Accounting and Verification Group Manager, at 702-293-8164 or [pmatuska@usbr.gov](mailto:pmatuska@usbr.gov).

Sincerely,



Terrance J. Fulp, Ph.D.  
Regional Director

cc: Ms. Tanya M. Trujillo  
Executive Director  
Colorado River Board of California  
770 Fairmont Avenue, Suite 100  
Glendale, CA 91203

Mr. Thomas Buschatzke  
Director  
Arizona Department of Water Resources  
3550 North Central Avenue  
Phoenix, AZ 85012

Jayne Harkins, P.E.  
Executive Director  
Colorado River Commission of Nevada  
555 East Washington Avenue, Suite 3100  
Las Vegas, NV 89101

Mr. John Entsminger  
General Manager  
Southern Nevada Water Authority  
1001 South Valley View Boulevard  
Las Vegas, NV 89153



# United States Department of the Interior

BUREAU OF RECLAMATION  
Lower Colorado Regional Office  
P.O. Box 61470  
Boulder City, NV 89006-1470

IN REPLY REFER TO:

MAY 15 2015

LC-4220  
WTR-4.03

CERTIFIED—RETURN RECEIPT REQUESTED

Mr. David V. Modeer  
General Manager  
Central Arizona Water Conservation District  
P.O. Box 43020  
Phoenix, AZ 85080-3020

Subject: Request to Keep Calendar Year 2014 Arizona Unused Apportionment in Lake Mead  
(Your Letter Dated December 18, 2014)

Dear Mr. Modeer:

Thank you for your letter dated December 18, 2014, notifying the Bureau of Reclamation of the Central Arizona Water Conservation District's (CAWCD) intention to not divert approximately 40,000 acre-feet (AF) of Arizona's 2014 apportionment of Colorado River water that would otherwise be available for diversion by CAWCD, and expressing CAWCD's strong desire to keep such unused apportionment in Lake Mead.

Your letter indicates the water that CAWCD intentionally left on the river in 2014, a portion of which was created through a fallowing agreement between CAWCD and the Yuma Mesa Irrigation and Drainage District, is intended to be part of the CAWCD's 345,000 AF reservoir protection goal under the Memorandum of Understanding (MOU)<sup>1</sup> executed on December 10, 2014. Per the terms of the MOU, CAWCD will voluntarily use its best efforts to create 345,000 AF of Protection Volume in Lake Mead.

Pursuant to Section 2.2 of Reclamation's *Lower Colorado Region Policy for Apportioned but Unused Water*, dated February 11, 2010, if, during an operating year, apportioned but unused water becomes available, the Secretary of the Interior (Secretary) "will consider all relevant factors including, but not limited to, the current storage conditions in Lake Mead and Lake Powell, the projected depletions in the Upper Basin, the Lower Basin, and Mexico for the operating year, the projected inflows into the Upper Basin and Lower Basin for the operating year, the water supplies available to the entitlement holders, and the likelihood of future determinations of a Shortage Condition"<sup>2</sup> in making the determination that unused water is available and will be reallocated. In consideration of these factors and CAWCD's intentional actions to not divert 2014 unused Arizona apportionment, Reclamation, on behalf of the Secretary, will not reallocate any of

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<sup>1</sup>Memorandum of Understanding Among the United States of America, through the Department of the Interior, Bureau of Reclamation, the CAWCD, the Metropolitan Water District of Southern California, the Southern Nevada Water Authority, the Arizona Department of Water Resources, the Colorado River Board of California, and the Colorado River Commission of Nevada for Pilot Drought Response Actions.

<sup>2</sup>A determination by the Secretary that insufficient mainstream water is available for release to satisfy annual consumptive use of 7,500,000 AF in Arizona, California, and Nevada under Article II(B)3 of the Consolidated Decree.

Arizona's unused apportionment and will allow such water to remain in Lake Mead for the benefit of system storage.

Reclamation appreciates CAWCD's efforts to promptly begin creating its Protection Volume under the MOU, recognizes our responsibilities for implementation of the MOU, and supports other ongoing and contemplated voluntary efforts to retain additional quantities of water in the Colorado River reservoir system storage, including Lake Mead. Pursuant to Section III.D of the MOU, Reclamation will work together with CAWCD and the other MOU participants to identify and track achievement of Protection Volume goals.

Thank you again for your letter. If you have questions, please contact Mr. Paul Matuska, Water Accounting and Verification Group Manager, at 702-293-8164 or [pmataska@usbr.gov](mailto:pmataska@usbr.gov).

Sincerely,

TERRANCE J. FULP, Ph.D

Terrance J. Fulp, Ph.D.  
Regional Director

cc: Ms. Tanya M. Trujillo  
Executive Director  
Colorado River Board of California  
770 Fairmont Avenue, Suite 100  
Glendale, CA 91203

Mr. Thomas Buschatzke  
Director  
Arizona Department of Water Resources  
3550 North Central Avenue  
Phoenix, AZ 85012

Jayne Harkins P.E.  
Executive Director  
Colorado River Commission of Nevada  
555 East Washington Avenue, Suite 3100  
Las Vegas, NV 89101

Mr. John Entsminger  
General Manager  
Southern Nevada Water Authority  
1001 South Valley View Boulevard  
Las Vegas, NV 89153

Mr. Jeffrey Kightlinger  
General Manager  
Metropolitan Water District  
of Southern California  
P.O. Box 54153  
Los Angeles, CA 90054-0153

bc: PXAO-1000, SCAO-1000, LC-4000, LC-4200, LC-4211, LC-4600

Daily  
Chrono

WBR:NEverett:toberebmt:03/13/2015:702-293-8417  
[http://ibr3lcrsp001/sites/4000/Admin/BCOODocument/2015/4200/CAWCD 2014 Arizona Unused Apportionment/2015 BOR letter CAWCD re AZ unused apportionment v2015-03-05.docx](http://ibr3lcrsp001/sites/4000/Admin/BCOODocument/2015/4200/CAWCD%2014%20Arizona%20Unused%20Apportionment/2015%20BOR%20letter%20CAWCD%20re%20AZ%20unused%20apportionment%20v2015-03-05.docx)



# United States Department of the Interior

BUREAU OF RECLAMATION  
 Lower Colorado Regional Office  
 P.O. Box 61470  
 Boulder City, NV 89006-1470

IN REPLY REFER TO:  
 LC-4014  
 PRJ-23.00

**MAY 12 2015**

CERTIFIED – RETURN RECEIPT REQUESTED

Mr. Carlos Peña, Jr., P.E.  
 Principal Engineer  
 Operations Department  
 International Boundary and Water Commission  
 The Commons, Building C, Suite 100  
 4171 North Mesa Street  
 El Paso, TX 79902

Subject: Volumes of Colorado River Water Deferred - Calendar Years 2011 Through 2014

Dear Principal Engineer Peña:

The Bureau of Reclamation has received your letter dated April 13, 2015, advising us that the Mexican Section of the International Boundary and Water Commission (IBWC) formally concurred with the accounting by the U.S. Section of the IBWC for the volumes of Colorado River water deferred and delivered in 2011, 2012, 2013, and 2014 in accordance with the provisions of Minute Nos. 318 and 319. Your letter also confirmed the deferred delivery data provided to Reclamation by email on January 26, 2015.

Based on the Colorado River water delivery schedules provided by the U.S. Section of the IBWC in 2011, 2012, 2013, and 2014 reflecting deferred delivery amounts and the email of January 26, 2015, Reclamation concurs with the values provided in your April 13, 2015 letter. The end of 2014 balance, after the 3 percent reduction for evaporation, is 293,148,352 cubic meters (237,658 acre-feet).

The table below reflects the deferred delivery amounts provided by your office converted to acre-feet for use in Reclamation's water accounting practices.

Year	Volume Deferred Per Year		Cumulative Volume		Delivery of Volumes Previously Deferred		3% Evaporation		Net Volume as of December 31 After Subtracting Evaporation	
	(CM)	(AF)	(CM)	(AF)	(CM)	(AF)	(CM)	(AF)	(CM)	(AF)
2011	62,089,000	50,336	62,089,000	50,336	-		1,862,670	1,510	60,226,330	48,826
2012	164,026,130	132,977	224,252,460	181,803	-		6,727,574	5,454	217,524,886	176,349
2013	156,421,790	126,812	373,946,676	303,162	-		11,218,400	9,095	362,728,276	294,067
2014	69,086,520	56,009	431,814,796	350,076	129,600,000	105,068	9,066,444	7,350	293,148,352	237,658

CM = Cubic Meters

AF = Acre-Feet

If you have questions please contact Mr. Paul Matuska, Water Accounting and Verification Group Manager, at 702-293-8164.

Sincerely,



Terrance J. Fulp, Ph.D.  
Regional Director

cc: Honorable Edward Drusina, P.E.  
Commissioner, United States Section  
International Boundary and  
Water Commission  
The Commons, Building C, Suite 306  
4171 North Mesa Street  
El Paso, TX 79902

Ms. Tanya M. Trujillo  
Executive Director  
Colorado River Board of California  
770 Fairmont Avenue, Suite 100  
Glendale, CA 91203

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Executive Director  
Colorado River Commission of Nevada  
555 East Washington Avenue, Suite 3100  
Las Vegas, NV 89101

Scott A. Verhines, P.E.  
State Engineer  
Office of the State Engineer  
State of New Mexico  
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Santa Fe, NM 87504-5102

Mr. Eric Millis  
Director  
Utah Division of Water Resources  
P.O. Box 146201  
Salt Lake City, UT 84114-6201

Ms. Anna Morales  
Area Operations Manager, Yuma Office  
International Boundary and Water Commission  
2995 South Pacific Avenue, Suite A  
Yuma, AZ 85365

Mr. Patrick Tyrrell  
State Engineer  
State Engineer's Office  
State of Wyoming  
Herschler Building, 4<sup>th</sup> Floor East  
122 West 25<sup>th</sup> Street  
Cheyenne, WY 82022

Mr. Thomas Buschatzke  
Director  
Arizona Department of Water Resources  
3550 North Central Avenue  
Phoenix, AZ 85012

Mr. John Entsminger  
General Manager  
Southern Nevada Water Authority  
1001 South Valley View Boulevard  
Las Vegas, NV 89153

Mr. James Eklund  
Director  
Colorado Water Conservation Board  
1313 Sherman Street, Room 721  
Denver, CO 80123

Mr. Don A. Ostler  
Executive Director  
Upper Colorado River Commission  
355 South 400 East  
Salt Lake City, UT 84111

# RECLAMATION

*Managing Water in the West*



Calendar Year 2014

## Colorado River Accounting and Water Use Report: Arizona, California, and Nevada



U.S. Department of the Interior  
Bureau of Reclamation  
Lower Colorado Region  
Boulder Canyon Operations Office

May 2015

**Table 1. Summary of Colorado River Water Accounting and Use Data, Calendar Year 2014. (All values are in acre-feet except as noted.)**

<b>Lower Division States Consumptive Use</b>					<b>TOTAL</b>
Arizona					2,774,661
California					4,649,734
Nevada					224,616
<b>Total Lower Division States Consumptive Use</b>					<b>7,649,011</b>
<b>Mexico</b>					
Total Deliveries to Mexico in Satisfaction of Treaty Requirements					1,443,991
Delivery of Water Deferred Pursuant to Section III.1 of IBWC Minute No. 319					105,068
To Mexico in Excess of Treaty Requirements					32,151
<b>Accountable Deliveries to Mexico</b>					<b>1,581,210</b>
<b>Total Consumptive Use - Lower Division States and Mexico<sup>1</sup></b>					<b>9,230,221</b>
<b>Water Bypassed Pursuant to IBWC Minute No. 242</b>					<b>144,602</b>
<b>Reservoir Contents - At Year's End (Thousands of Acre-Feet)</b>					
Storage in Lake Powell					11,537
Storage in the Lower Basin <sup>2</sup>					12,774
<b>Storage - Lower Basin plus Lake Powell<sup>3</sup></b>					<b>24,311</b>
Percentage of Active Storage - Lake Powell					47.4%
Percentage of Active Storage - Lower Basin					45.1%
<b>Percentage of Active Storage - Lower Basin Plus Lake Powell</b>					<b>46.2%</b>
<b>Total System Storage<sup>4</sup></b>					<b>29,629</b>
<b>Percentage of Total System Storage<sup>5</sup></b>					<b>49.9%</b>
<b>Interstate Water Banking</b>	<b>BOY Balance</b>	<b>Storage<sup>6</sup></b>	<b>Recovered</b>	<b>EOY Balance</b>	
Water Stored in Arizona by the AWBA for the Benefit of SNWA, NV	601,041	0	0	601,041	
Water Stored in California by the MWD for the Benefit of SNWA, NV	161,892	43,333	0	205,225	
<b>Total Water Stored for the Benefit of SNWA, NV</b>	<b>762,933</b>	<b>43,333</b>	<b>0</b>	<b>806,266</b>	
<b>Lower Colorado Water Supply Project Use<sup>7</sup></b>		<b>Non-Federal</b>	<b>Federal</b>	<b>Total</b>	
		6,857	338	7,195	
<b>Inadvertent Overruns and Paybacks</b>	<b>BOY Balance</b>	<b>Paybacks</b>	<b>Overruns</b>	<b>EOY Balance</b>	
Arizona (based on diversion)	593	338	0	255	
California (based on consumptive use)	117,391	117,391	0	0	
<b>Intentionally Created Surplus<sup>8</sup></b>	<b>BOY Balance</b>	<b>Creation</b>	<b>Reductions</b>	<b>EOY Balance</b>	
Arizona	103,050	0	0	103,050	
California	474,063	18,867	323,845	169,085	
Nevada	541,071	29,300	5,606	564,765	
<b>Total - Lower Division States</b>	<b>1,118,184</b>	<b>48,167</b>	<b>329,451</b>	<b>836,900</b>	

Footnotes: See following page.

**Table 11. Apportionments, Article II(B)(6) Releases, Paybacks, and Total Consumptive Use by State, Calendar Year 2014.**  
**(Values are in acre-feet.)**

<b>STATE</b>	<b>ADJUSTMENTS</b>	<b>ACTUAL USE</b>	
<b>Arizona</b>	Basic Apportionment <sup>1</sup>	2,800,000	
	NV II(B)(6) Released to AZ for Storage for NV <sup>2</sup>	0	
	CAGR/YMIDD Pilot Following Program Conservation <sup>3</sup>	(6,827)	
	IOPP Paybacks <sup>4</sup>	(222)	
	<hr/>		
	Total Available Colorado River Water <sup>5</sup>	2,792,951	
	Total Consumptive Use <sup>6</sup>	2,774,661	
	<hr/>		
	State Underrun or (Overrun)	18,290	
Unused AZ Apportionment Left in Lake Mead	(18,290)		
<hr/>			
Net State Underrun or (Overrun)	0		
<b>California</b>	Basic Apportionment <sup>1</sup>	4,400,000	
	NV II(B)(6) Released to CA for Storage for NV <sup>2</sup>	65,000	
	ICS Delivery (MWD)	320,992	
	ICS Creation (IID)	(18,867)	
	IOPP Paybacks <sup>4</sup>	(117,391)	
	<hr/>		
	Total Available Colorado River Water <sup>5</sup>	4,649,734	
	Total Consumptive Use <sup>6</sup>	4,649,734	
	<hr/>		
State Underrun or (Overrun)	0		
<b>Nevada</b>	Basic Apportionment <sup>1</sup>	300,000	
	ICS Delivery	0	
	<hr/>		
	Total Available Colorado River Water <sup>5</sup>	300,000	
	Total Consumptive Use <sup>6</sup>	224,616	
	<hr/>		
	State Underrun or (Overrun)	75,384	
	NV II(B)(6) Released for Storage by CA <sup>2</sup>	(65,000)	
	Unused NV Apportionment Left in Lake Mead	(10,384)	
<hr/>			
Net State Underrun or (Overrun)	0		

**Footnotes:**

<sup>1</sup> The state basic apportionment as described in Article II(B)(1) of the Consolidated Decree.

<sup>2</sup> Nevada unused apportionment made available to Arizona and/or California by the Secretary under Article II(B)(6) of the Consolidated Decree for storage in Arizona and/or California under the appropriate SIRA.

<sup>3</sup> In 2013, CAWCD and YMIDD entered into a Pilot Following Program Agreement in which CAWCD provides funding to YMIDD to follow a portion of its land. In 2014, 6,827 AF of Colorado River water conserved by the CAGR/YMIDD following program was intentionally not diverted by CAWCD and left in Lake Mead to benefit system storage.

<sup>4</sup> The reduction in the amount of water available to the state due to repayment obligations fulfilled under the IOPP.

<sup>5</sup> The total amount of Colorado River water available for use by the state in the reporting year.

<sup>6</sup> The total consumptive use of Colorado River water within the state as tabulated in the Article V(B) section of this report.

**Table 17. Comparison of Net California Agricultural Use, Calendar Year 2014<sup>1</sup>. (Values are in acre-feet.)**

<b>California Agricultural Entity</b>	<b>Consumptive Uses</b>
Palo Verde Irrigation District	424,561
Yuma Project Reservation Division	55,570
Yuma Island Pumpers <sup>2</sup>	4,296
Priorities 1, 2, 3b	484,427
CVWD	349,372
IID	2,533,414
<b>Total California Agricultural Use</b>	<b>3,367,213</b>
MWD Reduction for Priority 1, 2, and 3b use <sup>3</sup>	(64,427)
Overruns (by ag. entities)	0
Paybacks (by ag. entities)	117,391
MWD-CVWD Exchange	0
ICS Creation (by ag. entities)	18,867
ICS Delivery (by ag. entities)	0
IID and CVWD reductions for PPRs	14,500
<b>Use by California Agriculture+MWD Adjustment+Agricultural paybacks+IID/CVWD covered PPRs</b>	<b>3,453,544</b>
<b>Annual Agricultural Benchmark or Target Comparison</b>	
2014 Annual Target <sup>4</sup>	3,455,000
Use by California Agriculture+MWD Adjustment+Agricultural paybacks+IID/CVWD covered PPRs	3,453,544
<b>Total Target Overrun or (Underrun)</b>	<b>(1,456)</b>
<b>Priority 1, 2, and 3b use below/above 420,000 AF</b>	
Palo Verde Irrigation District	424,561
Yuma Project Reservation Division	55,570
Yuma Island Pumpers <sup>2</sup>	4,296
<b>Total Priority 1, 2, 3b Use</b>	<b>484,427</b>
MWD reduction for Priority 1, 2, and 3b water use <sup>5</sup>	(64,427)
Priority 1, 2, and 3b water delivered to MWD <sup>6</sup>	0

<sup>1</sup> Sections XI.A., B., E., F., and G., of the 2007 Record of Decision, Colorado River Interim Guidelines for Lower Basin Shortages and the Coordinated Operations for Lake Powell and Lake Mead contain the adopted Interim Guidelines. Section XI.G.5 of the Interim Guidelines contains benchmarks for aggregate California agricultural water use during each third year from 2003 through 2012. Exhibit B to the CRWDA, Column 22 references these Interim Guidelines benchmarks, and Column 23 references annual targets for aggregate agricultural water use for the years between the benchmarks. Footnotes 2 and 12 of Exhibit B define annual targets and benchmark year aggregate agricultural use totals as consumptive use of Priorities 1 through 3 plus 14,500 AF of PPR use, minus any MWD adjustment for Priority 1 through 3 use above 420,000 AF.

<sup>2</sup> Incorporation of Yuma Island Pumpers' use within Priority 2 does not represent either a final approval of this use by Reclamation or a final determination of the appropriate Consolidated Decree accounting for this use; nor is it an admission by any Colorado River contractor as to the legality of this use or diversion of Colorado River water.

<sup>3</sup> MWD's reductions for Priorities 1, 2, and 3b count toward meeting the ISG annual target.

<sup>4</sup> See Exhibit B of the CRWDA (Column 23).

<sup>5</sup> Per Section 4.d of the CRWDA, MWD use is reduced by the sum of Priority 1, 2, and 3b use greater than 420,000 AF.

<sup>6</sup> Per Section 4.d of the CRWDA, the sum of Priority 1, 2, and 3b use that is less than 420,000 AF is delivered to MWD.

**Table 19. State of California - Transfers, Exchanges, and Water Made Available by Extraordinary Conservation, Calendar Year 2014. (Values are in acre-feet.)**

<b>PROGRAM OR PARTICIPATING AGENCIES</b>	<b>TOTAL</b>
<b>IID Conservation</b>	
1988 IID/MWD Conservation Agreement <sup>1</sup>	104,100
MWD Reduction for CVWD use <sup>2</sup>	19,795
Transfer to SDCWA <sup>3</sup>	100,000
SDCWA Mitigation Transfer <sup>4</sup>	89,168
IID Intra-Priority 3 Transfer to CVWD <sup>5</sup>	31,000
Extraordinary Conservation Delivered to MWD <sup>6</sup>	18,868
<b>MWD/PVID Forbearance and Following Program <sup>7</sup></b>	<b>43,010</b>
<b>All-American Canal Lining Project <sup>8</sup></b>	
SDCWA Exchange with MWD	56,200
Supplemental to MWD	11,500
Total Conservation	<u>67,700</u>
<b>Coachella Canal Lining Project <sup>9</sup></b>	
SDCWA Exchange With MWD	23,923
Supplemental to MWD	4,500
Mitigation	2,427
Total Conservation	<u>30,850</u>
<b>Total MWD Exchange with SDCWA <sup>10</sup></b>	<b>180,123</b>

Note: Additional transfers and water exchange obligations may be found in Table 22, Exhibit B to the CRWDA.

**Footnotes:**

<sup>1</sup> 1988 IID/MWD Water Conservation Program conserved water, determined in accordance with the amended 1988 Program Agreement and the amended 1989 Approval Agreement made available by IID for diversion in the reporting year by MWD, reported as an annual total. In 2014, the amount of conserved water attributable to Project 18 was 2,600 AF as documented in the December 17, 2014, letter agreement between MWD and IID. This letter can be viewed on Reclamation's website at <http://www.usbr.gov/lc/region/g4000/4200Rpts/DecreeRpt/2014/2014.pdf> under the bookmark entitled, Documents and Letters Significant to the Delivery of and Accounting for the Use of Colorado River Water in Calendar Year 2014. This resulted in a total conservation yield of 104,100 AF.

<sup>2</sup> In accordance with the amended 1989 Approval Agreement, CVWD may request up to 20,000 AF of the water conserved by IID for MWD under the 1988 IID/MWD Water Conservation Agreement. MWD reduces its use by up to 20,000 AF of water conserved for use by CVWD, which is reflected in the displayed value above.

<sup>3</sup> As referenced in Column 5, Exhibit B, of the CRWDA, IID conserves water for transfer to SDCWA.

<sup>4</sup> As referenced in Column 7, Exhibit B, of the CRWDA, IID conserves water for transfer to SDCWA for delivery, by exchange, to the Salton Sea for mitigation purposes. As reported above, in 2014 IID delivered 89,168 AF of water, created through following, for mitigation purposes. Of this amount, 88,602 AF was required to meet the 2014 Salton Sea mitigation requirement shown in Column 7 of Exhibit B, adjusted for a 1,398 AF over-delivery in 2013. Due to measurement imprecision and operational/infrastructure limitations, in 2014, IID over-delivered 566 AF. IID applied conservation from its following program to offset the 566 AF over-delivery and will reduce its 2015 Salton Sea mitigation delivery by an equivalent amount. Also, as reported in the 2012 Water Accounting Report, in 2010 IID delivered 46,546 AF of Colorado River water to the Salton Sea with a stated intention to store the water for use for Salton Sea mitigation requirements in 2011 and half of 2012. IID did not conserve an equivalent amount of water in 2011 and 2012 for delivery to the Salton Sea resulting in a Colorado River system storage depletion of 46,546 AF. This topic is the subject of a series of letters between Reclamation and IID, including Reclamation's letter dated May 3, 2013; IID's letter dated June 28, 2013; and Reclamation's letter dated July 2, 2013. These letters may be viewed on Reclamation's website at <http://www.usbr.gov/lc/region/g4000/4200Rpts/DecreeRpt/2014/2014.pdf>, under the bookmark entitled, Documents and Letters Significant to the Delivery of and Accounting for the Use of Colorado River Water in Calendar Year 2014.

<sup>5</sup> IID conserves water under an acquisition agreement with CVWD to meet the IID/CVWD Intra-priority 3 Transfer obligation as referenced in Column 8, Exhibit B of the CRWDA.

<sup>6</sup> For informational purposes: Water conserved by IID through extraordinary conservation and delivered to MWD pursuant to Sections 1 and 2 of the California Agreement for the Creation and Delivery of Extraordinary Conservation Intentionally Created Surplus.

<sup>7</sup> PVID's annual reduction in consumptive use of Colorado River water through land following. This value represents the estimated reduction in PVID's consumptive use as a result of following 6,493 acres from January through July and 12,975 acres from August through December in the reporting year.

<sup>8</sup> The Secretarial Determination of water conserved by lining certain reaches of the AAC was issued in December 2009 (see Significant Documents). As a result, conserved water was distributed in accordance with the Allocation Agreement among the United States, MWD, CVWD, IID, SDCWA, and the SLRSP, dated October 10, 2003 and Public Law 100-675, as amended.

<sup>9</sup> The Secretarial Determination of water conserved by the CCLP was issued in January 2008. As a result, conserved water was distributed in accordance with the Allocation Agreement among the United States, MWD, CVWD, IID, SDCWA, and the SLRSP, dated October 10, 2003, Public Law 100-675, as amended, and Exhibit B to the Settlement Agreement between CVWD and SDCWA, dated October 30, 2007.

<sup>10</sup> The amount shown represents water exchanged between MWD and SDCWA in the reporting year. This is the sum of: IID Conservation - Transfer to SDCWA (100,000 AF), All-American Canal Lining Project - SDCWA Exchange with MWD (56,200 AF), and the Coachella Canal Lining Project - SDCWA Exchange with MWD (23,923 AF).





## Drought Update Tuesday, June 2, 2015

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### KEY ACTION ITEMS FROM THIS WEEK

- **Temporary Salinity Barrier Installed in the Delta:** On May 29, the Department of Water Resources (DWR) announced that construction of the [temporary emergency drought barrier](#) at West False River in the Sacramento-San Joaquin Delta is nearing completion about two weeks earlier than anticipated. The [emergency barrier](#) has been limited to protect fresh water supplies in the interior Delta from saltwater intrusion.
- **Drought Relief Program Offers Training for Impacted Workers:** On May 26, the Employment Training Panel (ETP) and the California Community Colleges Chancellor's Office (CCCCO) announced the [California Drought Employment Training Program](#), which will offer a variety of different training certification programs to workers, employers and students impacted by the drought such as irrigation, water treatment and food safety. Starting in early 2015, these programs will be provided to a variety of individuals who certify that their employment has been affected by the drought, such as those who are unemployed, laid off, under-employed, incumbent, or from low-socioeconomic groups at no cost to participate. To learn more about this training program, visit the [California Community Colleges](#) website.
- **State Water Board Program Awards \$30 Million to Schools to Promote Stormwater Capture:** On May 29, the State Water Board [announced](#) the Drought Response Outreach Program for Schools' ([DROPS](#)) program will fund 30 school districts and institutions throughout California and will receive more than \$30 million to educate students and create on-campus projects relating to stormwater capture and water conservation.

DROPS was developed in response to Governor Brown's Drought State of Emergency issued in January 2014 to provide funds to schools and school districts for projects to provide multiple benefits including water conservation, water supply augmentation, energy savings, increased awareness of water resource sustainability and reduced dry-weather runoff.

- **U.S. EPA Announces \$1.6 Billion to Upgrade Sacramento Regional Wastewater Treatment Plant:** On May 28, the U.S. Environmental Protection Agency (U.S. EPA) announced \$1.6 billion to help update the [Sacramento Regional Wastewater Treatment Plant](#) which will remove nearly 95% of ammonia from wastewater discharges into the Sacramento River and Bay Delta. The existing wastewater plant serving approximately 1.4 million people is one of the largest sources of ammonia and nitrate pollution to the Bay Delta. This project will bring the wastewater plant to advanced treatment levels that will protect the Sacramento River and San Francisco Bay Sacramento-San Joaquin Delta Estuary.

- **MWD Increases Turf Removal and Water Conservation Program Budget to Record \$450 Million:** On May 26, the Metropolitan Water District of Southern California (MWD) Board of Directors [approved a \\$350 million increase](#) to its existing budget for turf removal and water conservation programs for a total of \$450 million. MWD's turf removal program currently has rebate requests for more than 100 million square feet (or about 60,000 front lawns) and receives up to 10,000 applications per month. The expanded program is expected to result in the removal of about 175 million square feet of turf and projected to save about 80 million gallons of water per day for Southern California. For more information, visit MWD's [Water Conservation Program](#) website.
- **Drought Impacts, Public Perceptions to be Discussed at Upcoming California State Board of Food and Agriculture Meeting:** On June 2, the California State Board of Food and Agriculture (state board) board meeting will focus on the complexity of drought impacts and critical issues such as the misperceptions of California agriculture and farming. Invited speakers will include the University of California-Davis, the Center for Food Integrity and a variety of media representatives who will share their perspectives on drought perceptions in the public and the media.
- **Webinar Series Outlining Water Conservation Regulation Now Online:** On May 26, the Governor's Office, in partnership with the Association of California Water Agencies (ACWA), the League of California Cities and the California State Association of Counties, concluded the [special series of three webinars](#) that outlined the emergency regulations on mandatory urban water conservation and provided details on new conservation tools for local water agencies. More than 400 local water managers, staff and other agency officials participated remotely in each webinar. The webinars and accompanying written materials are now available [online](#).
- **California's Water Conservation Education Program Campaign:** The next phase of the state's ongoing public education campaign will kick off at the conclusion of the current 'Keep Saving CA' campaign at the end of June. This next phase of the Save Our Water public education campaign will focus on local water agencies around the state that must meet the state's highest water use reduction targets. This initiative will include radio/digital radio, billboards, transit ads, theater ads, digital and social media through the end of July.

Tree-care during the drought continues to be the primary focus on the Save Our Water social media pages, as well as on the website. In addition, the San Francisco Giants will be featured in upcoming public service announcements (PSAs) to further promote Save Our Water messaging. Save Our Water will film the Giants at AT&T on June 2. For easy-to-use water saving tips visit [saveourwater.com](http://saveourwater.com), and connect with us on [Facebook](#), [Twitter](#) and [Instagram](#).

- **Governor's Drought Task Force:** The Task Force continues to take actions that conserve water and coordinate state response to the drought. On May 28, updates on drought response, water operations and environmental habitat, and external outreach were provided.

During the most recent Task Force meeting the State Water Board announced that the next statewide conservation water-use data survey for April will be released at the State Water Board meeting on June 2, which provides a year-over-year water use comparison of nearly 400 urban water retailers. In addition, the University of California-Davis (UCD) Center for Watershed Sciences also provided preliminary results of a drought impact study

## **ONGOING DROUGHT SUPPORT**

- **Emergency Food Aid and Utility Assistance:** The Department of Social Services (CDSS) has provided to date over 656,409 boxes of food to community food banks in drought-impacted counties. Approximately 606,907 boxes of food have been picked up by 319,256 households. By June 5, an additional 10,800 boxes will be delivered to Fresno, Kern, Lake, Riverside and Tulare County.

The Department of Community Services and Development (CSD) allocated an additional \$600,000, under the federally-funded Community Services Block Grant (CSBG), to continue the [Drought Water Assistance Program \(DWAP\)](#) which provides financial assistance to help low-income families pay their water bills. As of May 22, CSD has reported that a total of \$75,831 has been issued to 404 households.

- **Drought Response Funding:** The \$687 million in state drought funding that was appropriated last March through emergency legislation, as well as \$142 million provided in the 2014 Budget Act, continues to advance toward meeting critical needs. To date, \$468 million has been committed, and nearly \$625 million of the emergency funds appropriated in March came from sources dedicated to capital improvements to water systems. Since March, the Department of Water Resources has expedited grant approvals, getting \$21 million immediately allocated to grantees that were pre-approved for certain projects.

As planned in March, the next \$200 million of expedited capital funding was awarded in October, and the remaining \$250 million will be granted by fall 2015. The 2014 Budget Act appropriated an additional \$53.8 million to CAL FIRE over its typical budget to enhance firefighter surge capacity and retain seasonal firefighters beyond the typical fire season.

As a result of continuing drought conditions, emergency legislation was enacted in March 2015 that appropriated over \$1 billion of additional funds for drought-related projects and activities. The Administration's May Revision proposal includes an additional \$2.2 billion for programs that protect and expand local water supplies, improve water conservation, and provide immediate relief to impacted communities.

## **CURRENT DROUGHT CONDITIONS**

- **Fire Activity:** Since the beginning of the year, CAL FIRE has responded to over 1,694 wildfires across the state, burning 6,746 acres in the State Responsibility Area (SRA). This fire activity is above the five year average for the same time period with 1,106 fires and 9,096 acres burned. CAL FIRE staffing is six to eight weeks ahead of schedule with all units to be at peak staffing the beginning of June.
- **CAL FIRE Suspends Outdoor Residential Burning:** To date, the following counties in SRA have suspended burn permits in Fresno, Kings, Monterey, San Benito, Tulare and Marin County. On June 1, CAL FIRE has suspended all burn permits for outdoor open residential burning in Calaveras, Imperial, Inyo, Mono, Tuolumne, San Diego, San Bernardino, San Joaquin and Stanislaus County.

This suspension bans all residential outdoor burning of landscape debris including branches and leaves. The department may issue restricted temporary burning permits if there is an essential reason due to public health and safety. For additional information on preparing for and preventing wildfires visit [www.ReadyForWildfire.Org](http://www.ReadyForWildfire.Org).

- **Dry Well Reports:** As California enters the fourth consecutive summer of drought, Cal OES continues to monitor and identify communities and local water systems in danger of running out of water. Approximately 1,966 wells statewide have been identified as critical or dry, which affects an estimated 9,830 residents. As of May 26, Cal OES has reported that 1,721 of the 1,966 dry wells are concentrated in the inland regions within the Central Valley.
- **Vulnerable Water Systems:** The State Water Board continues to provide technical and funding assistance to several communities facing drinking water shortages, and is monitoring water systems across the state. Since January 2014, 81 out of the 103 projects approved to receive emergency funding for interim replacement drinking water have been executed. On May 19, the State Water Board adopted Guidelines for administering the latest emergency drought appropriations of \$19 million announced this past March. To date, the State Water Board has received requests for \$1.1 million of those funds.
- **Reservoir Levels (% capacity):** Since May 29, reservoirs around the State are drawing down storage for irrigation, water supply, water quality, and Delta salinity control. Shasta has dropped 63,000 acre-feet (AF), Oroville has dropped 33,000 AF, Trinity Lake has dropped 26,000 AF, Folsom has dropped 9,000 AF, San Luis has dropped 35,000 AF. A few Tulare Basin reservoirs have increased storage: Pine Flat +16,000 AF, Terminus +3,000 AF, and Lake McClure +8,000 AF.
- [Reservoir Levels](#) as of June 1 remain low, including: Castaic Lake 34% of capacity (38% of year to date average); Don Pedro 41% of capacity (53% of average); Exchequer 13% of capacity (18% of average); Folsom Lake 54% of capacity (65% of average); Lake Oroville 44% of capacity (52% of average); Lake Perris 40% (48% of average); Millerton Lake 34% of capacity (44% of average); New Melones 19% of capacity (30% of average); Pine Flat 27% of capacity (37% of average); San Luis 53% of capacity (67% of average); Lake Shasta 53% of capacity (62% of average); and Trinity Lake 42% of capacity (48% of average). An update of water levels at [other smaller reservoirs](#) is also available.
- **Recent Precipitation:** Over the past week, the eastern portions of California, along the Nevada border, received precipitation. Areas experiencing precipitation included the Sierra Nevada mountain range (0.5 to 1.5 inches), and northeastern California (up to 1.5 inches). The Central Valley had light precipitation measuring less than half an inch, while Southern California near San Diego had minor traces of precipitation.
- **Precipitation Forecast:** A low pressure system is expected to travel through Northern California and Southern Oregon starting early next week. As a result, more widespread showers in the north are anticipated during the first half of the week. Dry conditions and warm temperatures are expected for the remaining areas of California.

## Local Government

- **Local Emergency Proclamations:** A total of 57 local Emergency Proclamations have been received to date from city, county, and tribal governments, as well as special districts:
  - **25 Counties:** El Dorado, Fresno, Glenn, Inyo, Humboldt, Kern, Kings, Lake, Madera, Mariposa, Merced, Modoc, Plumas, San Bernardino, San Joaquin, San Luis Obispo, Santa Barbara, Shasta, Siskiyou, Sonoma, Sutter, Trinity, Tulare, Tuolumne, and Yuba.
  - **11 Cities:** City of Live Oak (Sutter County), City of Lodi (San Joaquin County), City of Manteca (San Joaquin County), City of Montague (Siskiyou County), City of Porterville (Tulare County), City of Portola (Plumas County), City of Ripon (San Joaquin County), City of San Juan Bautista (San Benito County), City of Santa Barbara (Santa Barbara County), and City of West Sacramento (Yolo County), and City of Willits (Mendocino County).
  - **9 Tribes:** Cortina Indian Rancheria (Colusa County), Hoopa Valley Tribe (Humboldt County), Karuk Tribe (Siskiyou/Humboldt Counties), Kashia Band of Pomo Indians of the Stewarts Point Rancheria (Sonoma County), Picayune Rancheria of Chukchansi Indians (Madera County) Sherwood Valley Pomo Indian Tribe (Mendocino County), Tule River Indian Tribe (Tulare County), Yocha Dehe Wintun Nation (Yolo County), and Yurok Tribe (Humboldt County).
  - **12 Special Districts:** Carpinteria Valley Water District (Santa Barbara County), Goleta Water District (Santa Barbara County), Groveland Community Services District (Tuolumne County), Lake Don Pedro Community Services District (Mariposa Stanislaus County), Mariposa Public Utility District (Mariposa County), Meiners Oaks Water District (Ventura County), Montecito Water District (Santa Barbara County), Mountain House Community Service District (San Joaquin County), Nevada Irrigation District (Nevada County), Placer County Water Agency (Placer County), Tuolumne Utilities District (Tuolumne County), and Twain Harte Community Services District (Tuolumne County).
- **Water Agency Conservation Efforts:** The Association of California Water Agencies (AWCA) [has identified](#) several hundred local water agencies that have implemented water conservation actions. These water agencies [are responding to the drought](#) by implementing conservation programs, which include voluntary calls for reduced water usage and mandatory restrictions where water shortages are worst.
- **County Drought Taskforces:** A total of 31 counties have established drought task forces to coordinate local drought response. These counties include: Butte, Glenn, Humboldt, Imperial, Kern, Kings, Lake, Madera, Mendocino, Merced, Modoc, Monterey, Napa, Nevada, Orange, Placer, Plumas, Sacramento, San Francisco, San Joaquin, San Luis Obispo, San Mateo, Santa Barbara, Santa Clara, Siskiyou, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, and Yolo.
- **Tribal Taskforce:** A total of 4 tribes have established drought task forces to coordinate tribal drought response. These tribes include: Hoopa Valley Tribe (Humboldt County), Kashia Band of Pomo Indians (Sonoma County), Sherwood Valley Tribe (Mendocino County), and Yurok Tribe (Humboldt and Del Norte County).

## DROUGHT RELATED WEBSITES FOR MORE INFORMATION

[Drought.CA.Gov](#): California's Drought Information Clearinghouse

State's Water Conservation Campaign, [Save our Water](#)  
Local Government, [Drought Clearinghouse and Toolkit](#)

California Department of Food and Agriculture, [Drought information](#)

California Department of Water Resources, [Current Water Conditions](#)

California Data Exchange Center, [Snow Pack/Water Levels](#)

California State Water Resources Control Board, Water Rights, [Drought Info and Actions](#)

California Natural Resources Agency, [Drought Info and Actions](#)

State Water Resources Control Board, Drinking Water, [SWRCB Drinking Water Program](#)

California State Water Project, [Information](#)

[U.S. Drought Monitor](#) for Current Conditions throughout the Region

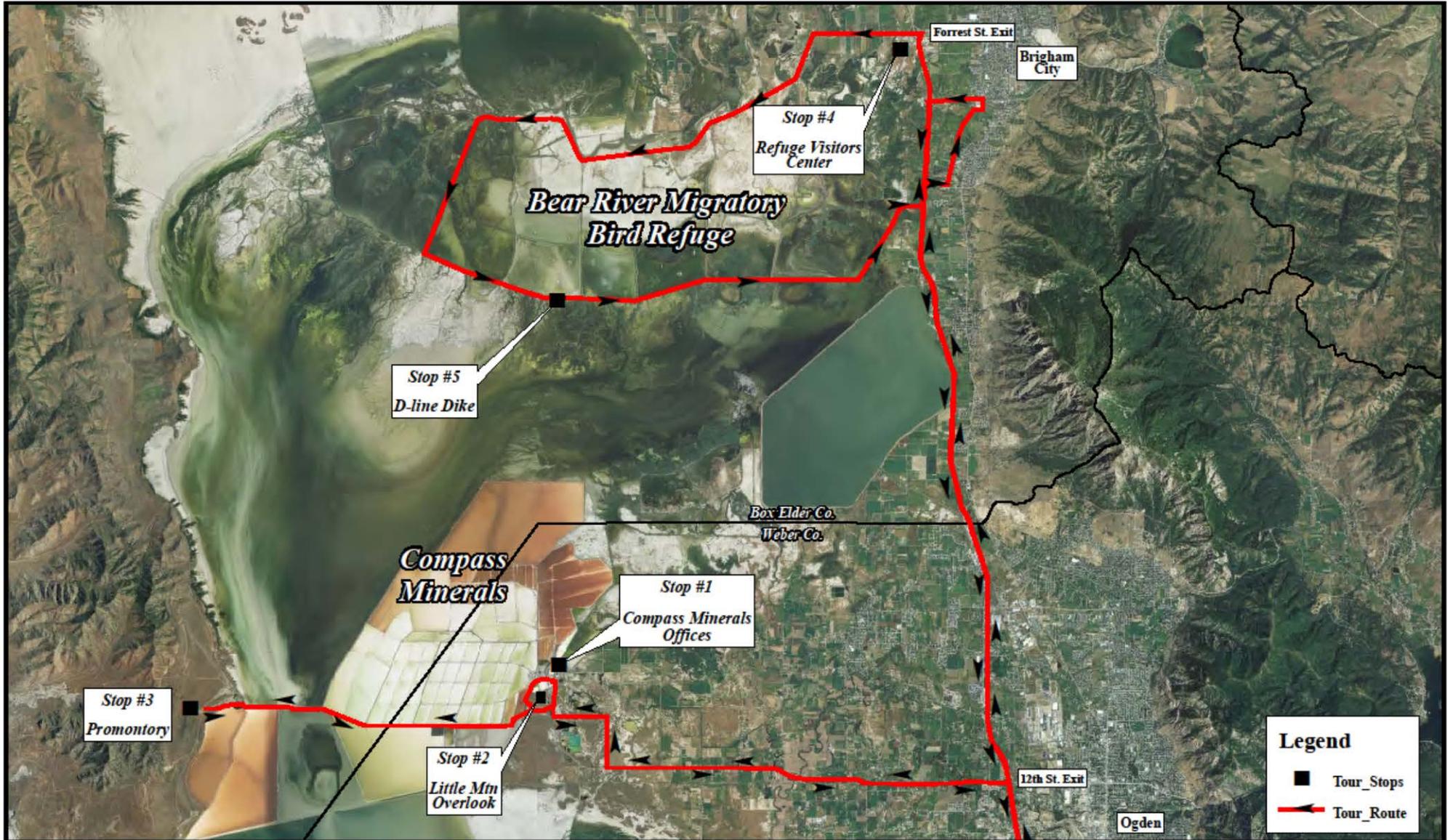
[U.S. Drought Portal](#), National Integrated Drought Information System (NIDIS)

National Weather Service [Climate Predictor Center](#)

USDA Drought Designations by County [CA County Designations](#)

USDA Disaster and Drought Assistance Information [USDA Programs](#)

U.S. Small Business Administration Disaster Assistance Office: [www.sba.gov/disaster](http://www.sba.gov/disaster)

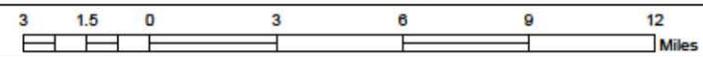


**Legend**

- Tour\_Stops
- ➔ Tour\_Route



**Compass Minerals / Bear River Migratory Bird Refuge Tour**



Scale: 1:180,000  
Date: May 2015





# Colorado River Basin SALINITY CONTROL FORUM

## MEMORANDUM 2015-22

### GOVERNORS

Doug Ducey, AZ  
Jerry Brown, CA  
John Hickenlooper, CO  
Brian Sandoval, NV  
Susana Martinez, NM  
Gary R. Herbert, UT  
Matthew H. Mead, WY

**TO: Forum Members**

**FROM: Don A Barnett, Executive Director**

**SUBJECT: Forum Budget/Finances – Forum’s FY2016 Proposed Budget**

**DATE: April 28, 2015**

### FORUM MEMBERS

#### Arizona

Thomas Buschatzke  
Larry R. Dozier  
Linda Taunt

#### California

Bill Hasencamp  
Thomas Howard  
Tanya Trujillo

#### Colorado

James Eklund  
Pat Pfaltzgraff  
David W. Robbins

#### Nevada

Leo M. Drozdoff  
John J. Entsminger  
Jayne Harkins

#### New Mexico

Scott A. Verhines

#### Utah

Leah Ann Lamb  
Eric Millis  
Gawain Snow

#### Wyoming

Dan S. Budd  
Patrick T. Tyrrell  
David Waterstreet

The spring Forum meeting each year is the Forum’s annual business meeting, which includes a review and approval of the Forum’s budget and state assessments. In working with the Management Committee, attached hereto you will find a sheet that provides you with information concerning the proposed Forum budget for next year, along with the proposed state assessments. The attached sheet contains information similar to that provided to you in prior years.

At the top of the page you will find a box containing information regarding the current budget (FY2015) and the proposed budget for FY2016. We expect to end this fiscal year on June 30<sup>th</sup> underspent from the currently approved budget with a carryover of about \$109,000. The proposed budget for next year is the same as the prior year with no increases. It does, however, show the shifting of \$1,000 each from the printing and postage categories to the travel category. As more and more of the memos and other documents are being sent via email and using the Forum’s website, the costs for printing and mailing have decreased, yet the costs for travel have risen over the years.

In the middle of the page is a table which shows the proposed state assessments, which are the same as they have been for the prior seven years. You might note that for a number of years the Forum has approved a budget that is greater than the annual assessments. Hence, in years that the budget is fully expended, the Forum’s carryover drops, but if the Forum’s budget is under-expended by at least \$10,000, as is anticipated this year, then the carryover will slightly increase.

At the bottom of the sheet is a table which shows the estimated Forum’s carryover of funds on June 30, 2016, if the dues are kept flat and the proposed budget is fully expended. If 2016 is, as it has been in recent years, that we are able to under-expend the budget, then the carryover will be greater than the amount shown in the box. The proposed budget and state assessments have been reviewed by the Management Committee and adoption of the Forum’s budget and state assessments is an agenda item at the upcoming Salt Lake City meetings.

Attachment

### EXECUTIVE DIRECTOR

Don A. Barnett

106 West 500 South, Ste. 101  
Bountiful, UT 84010  
(801) 292-4663  
dbarnett@barnettwater.com  
www.coloradoriversalinity.org



# Colorado River Basin SALINITY CONTROL FORUM

## GOVERNORS

Doug Ducey, AZ  
Jerry Brown, CA  
John Hickenlooper, CO  
Brian Sandoval, NV  
Susana Martinez, NM  
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## FORUM MEMBERS

**Arizona**  
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Marie Pearthree  
Linda Taunt

**California**  
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Tanya Trujillo

**Colorado**  
James Eklund  
Pat Pfaltzgraff  
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Scott A. Verhines

**Utah**  
Leah Ann Lamb  
Eric Millis  
Gawain Snow

**Wyoming**  
Dan S. Budd  
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David Waterstreet

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## MEMORANDUM 2015-33

**TO: Forum Members**

**FROM: Don A Barnett, Executive Director**

**SUBJECT: Potential Recommendation to Reclamation on Short-Term Management of the LCRBDF**

**DATE: May 13, 2015**

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As you know, the Forum has created a Program Funding Subcommittee to look at the shortfall in cost-share dollars accruing to the Lower Colorado River Basin Development Fund (LCRBDF). In the interim, until this is resolved, Reclamation and the states have been working on management strategies for the LCRBDF so as to continue implementation of the program at as high a level as is practicable while, at the same time, not running the fund into deficit. Reclamation and the states have had several meetings which culminated in recommendations to Reclamation the past two years as to management of that fund. In general the recommendations have called for keeping expenditures at or below the fund income levels and not making repayment to the Treasury. Reclamation has requested that the recommendations relative to management of the fund be on a year-to-year basis and hence, it is needful for a new recommendation to be made to Reclamation for FY 2015. The process would be for the Forum to discuss this as an agenda item at next week's meetings, and then once resolved, a recommendation would be made to the Advisory Council who could discuss the recommendations and ultimately land on making a recommendation to Reclamation.

To assist in the discussions, attached hereto is potential recommendation language. This language is similar to last year's recommendation with the dates and amounts updated, and with the addition of the concept that Reclamation potentially expend below the revenue amount in 2015 so as to save some dollars which could be expended next year for smaller projects under the FOA.

We pass this information on to you for your review and consideration in advance of discussions at the upcoming Forum meetings.

Attachment

cc: Work Group, Federal Salinity Coordinators

Mr. Brent Rhees  
Regional Director  
U.S. Bureau of Reclamation  
125 S. State Street, Room 6107  
Salt Lake City, UT 84138

Mr. Terry Fulp  
U.S. Bureau of Reclamation  
Lower Colorado Region  
P.O. Box 61470  
Boulder City, NV 89006

Re: Recommendations Regarding Short-Term Management of the Lower Colorado River Basin Development Fund (LCRBDF) Cash Flow for Fiscal Year (FY) 2015

Dear Brent and Terry:

At its recent meetings, the Colorado River Basin Salinity Control Advisory Council received a report from Reclamation regarding the management of the LCRBDF relative to the Colorado River Basin Salinity Control Program (Program). Reclamation provided up-to-date expenditures, as well as revenues. The Advisory Council has also reviewed short-term fund management strategies employed last year. Upon review of all of the facts and information and the most up-to-date financial information, the Advisory Council would like to affirm its continued support of Reclamation's short-term management strategies for the LCRBDF with the below recommendations.

The Advisory Council recommends that Reclamation limit the expenditure of cost-share dollars out of the LCRBDF to no more than the 2014 annual revenue of approximately \$9.4 million. In order to accomplish this, it is recommended that Reclamation employ the following concepts in administering the LCRBDF portion of the cost share requirements:

- 1) Continue upfront cost sharing with appropriations in Reclamation's Basinwide Program and in the O&M for the original units,
- 2) Continue funding contracts with NRCS in Colorado, Utah and Wyoming for the provision of technical assistance,
- 3) Reduce expenditures for studies, administration and miscellaneous purposes to approximately \$660,000,
- 4) In 2015, do not make the annual repayment to the Treasury for the original units,
- 5) Adjust the allocation to the State Ag agencies to match the remaining available funds so as to keep 2015's withdrawal at or below the \$9.4M level of revenue earned in 2014. However, the Council recognizes that Reclamation is in the middle of the FOA and therefore, it might be prudent to reduce Basin States Program expenditures this year in order to allow for greater expenditures in FY 2016, and
- 6) Maintain sufficient moneys in the LCRBDF to fulfill the first remaining repayment obligation to the Treasury of the original units of approximately \$3M due in 2026.

The Council very much appreciates the efforts of Reclamation and its staff in properly accounting for and managing the LCRBDF. As discussed with you in prior meetings, these

recommendations are just for FY 2015. The Council recognizes that if repayment to the Treasury is not required this year, then in these budget-short times, such dollars can best be used for program implementation and it is desirable to continue foregoing the payment until required. It is anticipated the Council will continue to review and work with Reclamation through the remainder of this year as we seek to maximize the limited salinity dollars in the LCRBDF.

Should you have any questions regarding these recommendations, please contact me.

**GLEN CANYON DAM ADAPTIVE MANAGEMENT PROGRAM  
ADAPTIVE MANAGEMENT WORK GROUP MEETING, MAY 28, 2015**

WebEx URL: <https://ucbor-events.webex.com/ucbor-events/onstage/g.php?MTID=e03f40495743cbb6a8a121702b6d02606>

Conference Call: 877-913-4721, Passcode: 3330168

**DRAFT AGENDA**

<b>START TIME <sup>1</sup> (Duration)</b>	<b>Topic, Presenter, and Purpose <sup>2</sup></b>
9:00 PDT	<b>Welcome and Administrative</b> – Jennifer Gimbel, Secretary’s Designee
10:00 MDT	1. Introductions and Determination of Quorum (13 members)
12:00 EDT	2. Webinar Protocols
(:15)	3. Review purpose of the meeting and desired outcomes
	4. Approval of February 25-26, 2015 meeting minutes
	5. Update on recruitments: GCMRC Chief and Science Advisors
9:15 PDT (1:00)	<b>AMWG Charter</b> – Beverley Heffernan, Bureau of Reclamation and Co-Chair of the Charter Ad Hoc Group <i>Information, discussion, and action</i> <ul style="list-style-type: none"> <li>▪ Presentation (15 minutes)</li> <li>▪ Q&amp;A, discussion, and action (45 minutes)</li> </ul> <p><b>Motion Recommended by the Charter Ad Hoc Group:</b> The AMWG recommends approval by the Secretary of the AMWG Charter dated May 1, 2015.</p>
10:15 PDT (:15)	<b>Technical Work Group (TWG) Report</b> – Shane Capron, TWG Vice-Chair <i>Information, discussion, and feedback</i> <ul style="list-style-type: none"> <li>▪ Presentation (10 minutes)</li> <li>▪ Q&amp;A and discussion (5 minutes)</li> </ul>
10:30 PDT (:05)	<b>B R E A K</b>
10:35 PDT (:25)	<b>FY 2016 Budget and Work Plan</b> – Glen Knowles, Bureau of Reclamation; Scott VanderKooi, Grand Canyon Monitoring and Research Center; and Shane Capron, TWG Vice-Chair and TWG Budget Ad Hoc Group Chair <i>Information, discussion, and feedback</i> <ul style="list-style-type: none"> <li>▪ Presentation (15 minutes)</li> <li>▪ Q&amp;A, discussion, and feedback (10 minutes)</li> </ul>
11:00 PDT (:25)	<b>Basin Hydrology and WY 2016 Hydrograph</b> – Glen Knowles and Heather Patno, Bureau of Reclamation <i>Information, discussion, and feedback</i> <ul style="list-style-type: none"> <li>▪ Presentation (15 minutes)</li> <li>▪ Q&amp;A, discussion, and feedback (10 minutes)</li> </ul>

<b>START TIME <sup>1</sup> (Duration)</b>	<b>Topic, Presenter, and Purpose <sup>2</sup></b>
11:25 <b>PDT</b> (:25)	<b>Long-Term Experimental and Management Plan EIS</b> – Glen Knowles, Reclamation; Rob Billerbeck, National Park Service; Kirk LaGory, Argonne National Laboratory <i>Information, discussion, and feedback</i> <ul style="list-style-type: none"> <li>▪ Status update on process and schedule (15 minutes)</li> <li>▪ Q&amp;A and discussion (10 minutes)</li> </ul>
11:50 <b>PDT</b> (:05)	<b>AMWG Next Steps</b> – Jennifer Gimbel, Secretary’s Designee <ul style="list-style-type: none"> <li>▪ Next AMWG Meeting: August 26-27, 2015 in the Phoenix Arizona area, LOCATION TBD <ul style="list-style-type: none"> <li>○ Major agenda topics: <ul style="list-style-type: none"> <li>• Approve budget, workplan, and WY2016 hydrograph</li> <li>• LTEMP update</li> <li>• Stakeholder’s Perspective and HFE impact on camping beaches: GCRG</li> <li>• Update on Basin Fund and hydropower revenue.</li> </ul> </li> <li>○ Send additional items to Linda Whetton (<a href="mailto:lwhetton@usbr.gov">lwhetton@usbr.gov</a>) by June 8, 2015.</li> </ul> </li> <li>▪ Upcoming AMWG meetings: <ul style="list-style-type: none"> <li>○ February 24-25, 2016</li> <li>○ August 24-25, 2016</li> </ul> </li> </ul>
11:55 <b>PDT</b> (:05)	<b>Public Comment</b>
12:00 <b>PDT</b>	<b>Adjourn</b> – Jennifer Gimbel

<sup>1</sup> After the first agenda item, times are Arizona time, which at this time of year is equivalent to PDT. Every effort will be made to adhere to the schedule and agenda, but on occasion, for unforeseen reasons, some modifications may occur.

<sup>2</sup> Action may be by consensus or a vote; and may consist of a recommendation to the Secretary of the Interior or feedback to presenter(s) or to subordinate groups.



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# News Release

## Secretary Jewell Announces \$50 Million to Help Conserve Water in Drought-Stricken West

### Interior's WaterSMART Program to Support 64 Projects in 12 States

**05/20/2015**

Contact us

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**LOS ANGELES, CA** – As part of the Obama Administration's continued effort to bring relief to western communities suffering from the historic drought, U.S. Secretary of the Interior Sally Jewell today announced that Interior's Bureau of Reclamation will invest nearly \$50 million to improve water efficiency and conservation in California and 11 other western states.

"In a time of exceptional drought, it is absolutely critical that states and the federal government leverage our funding resources so that we can make each drop count," said Secretary Jewell. "Being 'water smart' means working together to fund sustainable water initiatives that use the best available science to improve water conservation and help water resource managers identify strategies to narrow the gap between supply and demand."

Joined by Nancy Sutley, Chief Sustainability and Economic Development Officer of the Los Angeles Department of Water and Power, the funding announcement was made today at the Donald C. Tillman Water Reclamation Plant in Van Nuys, CA, where millions of gallons of wastewater are purified each day. Secretary Jewell, Bureau of Reclamation Commissioner Estevan López and Sutley emphasized the importance of federal-state partnerships to help work toward a more sustainable and resilient water future.

"Through the WaterSMART Program, Reclamation is providing funding for water conservation improvements and water reuse projects across the West," Reclamation Commissioner Estevan López said. "We commend the state of California for all the steps they have already taken to alleviate the impacts of the drought. We hope this federal funding for water reuse and efficiency will help us leverage scarce resources between the state and federal governments to bring much-needed relief for the people and environment of California."

"The federal government's support for critical water efficiency and reuse projects is most valuable especially during this historic drought in California," said Sutley. "The investments will help cities like Los Angeles carry out our sustainability objectives, further build our local water supply and reduce our reliance on imported water. We look forward to all these important opportunities ahead of us."

"We are honored to host Secretary Jewell at our Donald C. Tillman Water Reclamation Plant and Japanese Garden today," said LA Sanitation Director Enrique C. Zaldivar, P.E. "We look forward to learning more about the environmental partnership opportunities she will announce during her visit."

Reclamation is investing more than \$24 million in grants for 50 water and energy efficiency projects in 12 western states, more than \$23 million for seven water reclamation and reuse projects in California, and nearly \$2 million for seven water reclamation and reuse feasibility studies in California and Texas.

WaterSMART is the U.S. Department of the Interior's sustainable water initiative. Since it was established in 2010, WaterSMART has provided about \$250 million in competitively-awarded funding to non-federal partners, including tribes, water districts, municipalities and universities. These investments have conserved enough water to meet the needs of more than 3.8 million people. Every acre-foot of conserved water delivered means that an equivalent amount of existing supplies is available for other uses.

WaterSMART water and energy efficiency grants can be used for projects that conserve and use water more efficiently, increase the use of renewable energy, improve energy efficiency, benefit endangered and threatened species, facilitate water markets, carry out activities to address climate-related impacts on water or prevent any water-related crisis or conflict. The 50 projects announced today will be leveraged with at least 50 percent non-federal funding for a total of \$133 million in improvements over the next two to three years. For a complete description of the 50 projects, please visit the WaterSMART Water and Energy Efficiency Grant website.

Through Title XVI of the Reclamation Wastewater and Groundwater Study and Facilities Act, Reclamation provides funding for projects that reclaim and reuse municipal, industrial, domestic or agricultural wastewater and naturally impaired ground or surface waters. Title XVI provides up to 25 percent of project costs. Project sponsors provide the remaining 75 percent of the funding necessary to carry out projects, thereby leveraging limited federal funding to implement as many water reuse projects as possible. Seven projects in California will receive \$23.2 million. For a complete description of these seven water reuse projects, please visit the WaterSMART Title XVI website.

Also under the Title XVI Act, Reclamation is providing \$1.6 million for communities to study whether water reuse projects would help them to meet their future water needs. Four feasibility studies in California and three studies in Texas were selected this year. Feasibility studies are funded jointly by Reclamation and project sponsors. A cost-share of at least 50 percent of study is required. For a complete description of the seven new studies selected for funding, please visit the WaterSMART Title XVI website.

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Secretary Jewell, Governor Jindal  
Announce Proposal to Remove  
Louisiana Black Bear from  
Endangered Species List

**Next >>**

Secretary Jewell, Congressman  
Hoyer Call for Full Funding of  
Landmark Recreation,  
Conservation Program at  
Maryland's Douglas Point

## **FY 2015 Authorized Title XVI Project Funding**

### **City of Corona Water Recycling and Reuse Project**

#### **City Park Reclaimed Waterline**

#### **City of Corona, California**

**Federal Funding: \$424,833**

The City of Corona, California's water recycling and reuse project includes installation of approximately fifteen miles (79,410 linear feet) of reclaimed water pipeline and additional storage capacity to extend the City's recycled water service. Upon completion, the City's authorized Title XVI project is expected to produce 14,906 acre-feet of recycled water annually. The project is expected to provide reclaimed water to 455 customers and will enable the City to eliminate almost all of its imported water purchases, which currently accounts for approximately 40 percent of the City's water supply. The recycled water delivered by this project will replace water that would otherwise be imported from sources such as the Colorado River and Bay-Delta.

### **Hi-Desert District Wastewater Collection and Reuse Facility (Yucca Valley)**

#### **Wastewater Treatment and Water Reclamation Project**

#### **Hi-Desert Water District**

**Federal Funding: \$4,000,000**

The Hi-Desert District Wastewater Collection and Reuse Facility in Yucca Valley, California, includes construction of a centralized wastewater treatment facility and collection system to eliminate septic systems within the District's service area. The project will provide tertiary treatment to percolate recycled water into the Warren Valley Groundwater Basin where water levels have been depleted. In addition to improving the quality of the groundwater basin, this Project will also reduce dependency on imported supplies and it will provide a more drought resistant groundwater supply. Upon completion, this project will result in the recharge of 1,949 acre-feet of recycled water annually to replace water that would otherwise be imported by the State Water Project from the Bay-Delta.

### **Lower Chino Dairy Area Desalination and Reclamation Project**

#### **Lower Chino Dairy Area Desalination and Reclamation Well Field and Pipeline Project**

#### **Inland Empire Utilities Agency**

**Federal Funding: \$5,000,000**

Inland Empire Utilities Agency, in association with the Chino Basin Desalter Authority, is expanding capacity of the existing Chino II Desalter plant through the construction and development of three supply wells and two primary raw water transmission lines, which are components of the Chino Desalter Project. The project components proposed for funding will enhance efficiency of the desalter system through increased recovery of brine that is currently discharged to the Pacific Ocean by implementing a 2.75 million gallon per day pellet softening, clarification and secondary reverse osmosis treatment system at the Chino II Desalter facility, and the project will help the Inland Empire Utilities Agency ensure that environmental monitoring and mitigation requirements related to groundwater pumping are met. The water produced by this project will replace water that would otherwise be imported from the Colorado River and/or Sacramento-San Joaquin Bay-Delta.

### **North Bay Water Reuse Program**

#### **Sonoma County Water Agency**

**Federal Funding: \$1,793,225**

The North Bay Water Reuse Program in Santa Rosa, California, will provide recycled water for agricultural, environmental, industrial, and landscape uses throughout Marin, Sonoma, and Napa counties. Phase I of the Program includes upgrades of treatment processes and construction of storage, pipelines, and pump station facilities to distribute recycled water. Phase I provides 3,757 acre-feet per year of tertiary treated recycled water for irrigation demands and up to 1,700 acre-feet per year of tertiary treated recycled water for Napa Salt Marsh habitat restoration. The Program reduces both reliance on local and imported surface water and groundwater supplies as well as the amount of treated effluent released to San Pablo Bay and its tributaries.

**San Diego Area Water Reclamation Program  
Sweetwater Authority Water Reclamation Project, Phase II  
Sweetwater Authority**

**Federal Funding: \$5,250,000**

The Sweetwater Authority Water Reclamation Project in California will expand the Richard A. Reynolds Groundwater Desalination Facility to provide a more secure, local water supply. The authority completed Phase I of the construction of the Reynolds Facility in 2000. Phase II of the project will expand the Reynolds Facility from the current capacity of 3,600 acre-feet per year to a total capacity of 8,800 acre-feet of locally-produced desalinated groundwater annually. Water that is produced by the Reynolds Facility supplements potable water supplies, and directly offsets imported water from the Sacramento-San Joaquin Bay-Delta and Colorado River systems.

**San Jose Area Water Reclamation and Reuse Program  
South Bay Water Recycling, Phase 1B Infrastructure Improvements  
City of San Jose, California**

**Federal Funding: \$5,000,000**

The South Bay Water Recycling Program is a joint effort of local municipalities and water districts, administered by the City of San Jose, California to provide recycled water throughout Santa Clara County. Recycled water that is delivered by the South Bay Water Recycling program replaces approximately 10,000 acre-feet per year of imported water with a local, sustainable, supply of water. Current infrastructure delivers recycled water to more than 700 irrigation and industrial customers in the cities of San Jose, Milpitas, and Santa Clara. Construction of Phase 1B includes more than 20 miles of recycled water pipeline, two 2.75 million gallon storage reservoirs, and reliability improvements at the transmission pump station. Recycled water from this project is used for multiple purposes, including environmental restoration, urban agriculture, landscape, and industry.

**Watsonville Area Water Recycling Project  
Watsonville Area Water Recycling Program  
Pajaro Valley Water Management Agency**

**Federal Funding: \$1,756,776**

The Watsonville Area Water Recycling Program is a joint effort by the City of Watsonville, California and the Pajaro Valley Water Management Agency, and is intended to reduce over-drafting of groundwater resources and subsequent seawater intrusion. This project provides 4,000 acre-feet of recycled water per year for irrigation by blending effluent from the City's wastewater treatment plant it with higher quality water to reduce salinity. A new 1.5 million gallon storage tank will be constructed in 2015 in order to improve system yield and operational flexibility.

## **Title XVI Feasibility Study Funding - FY 2015**

### **California**

#### **Recycled Water Strategic and Master Plan**

**Eastern Municipal Water District**

**Federal Funding: \$150,000**

**Non-Federal Funding: \$476,853**

The Eastern Municipal Water District (EMWD) will prepare a Recycled Water Strategic and Master Plan to develop, evaluate, and select the best set of recycled water projects that will help it meet its goals of achieving zero discharge, maximizing potable water offset, minimizing cost, and managing salinity. EMWD will evaluate four recycled water end use categories to create recycled water strategic alternatives including indirect potable reuse, non-potable reuse for municipal irrigation and industrial customers, non-potable reuse for agriculture, environmental and restricted recreational use, and recycled water wholesale for recycled water services to approximately 768,000 people in Riverside County.

#### **Indirect Potable Reuse Feasibility Study**

**Elsinore Valley Municipal Water District**

**Federal Funding: \$150,000**

**Non-Federal Funding: \$166,292**

Elsinore Valley Municipal Water District (EVMWD) will conduct a feasibility study on indirect potable reuse to determine the most cost-effective alternative for local groundwater recharge using treated effluent from the Regional Water Reclamation Facility. The study will include an analysis of treatment and conveyance options and the identification of preferred locations for groundwater recharge in the multi-county water district, which serves a 96-square mile area in Riverside and Orange Counties along the eastern foothills of the Santa Ana Mountains.

#### **North Bay Water Reuse Program: Phase 2 Feasibility Study**

**Sonoma County Water Agency**

**Federal Funding: \$450,000**

**Non-Federal Funding: \$1,236,316**

The North Bay Water Reuse Authority will conduct a feasibility study on Phase 2 of the North Bay Water Reuse Program to develop recycled water as new supply for urban, agricultural, and environmental water demands in California's Marin, Sonoma, and Napa counties. The study will evaluate increasing operational flexibility through integrated storage facilities that allow for year-round capture and use of recycled water, an expanded distribution network that assists with groundwater recovery through recharge and salt-water intrusion mitigation projects, and support for healthy riparian and aquatic habitats. The study intends to address the impacts of climate change and prolonged drought on the regional water supplies by capturing recycled water that historically has been lost to discharges in San Pablo Bay.

**Effluent Reuse Study (OCSD Project No. SP-173)**

**Orange County Sanitation District**

**Federal Funding: \$450,000**

**Non-Federal Funding: \$2,350,000**

The Orange County Sanitation District (OCSD) will conduct an effluent reuse study to evaluate alternatives and present an implementation plan for wastewater collection and treatment facilities improvements needed to support expansion of the Groundwater Replenishment System (GWRS). The GWRS, a water supply project jointly sponsored by OCSD and Orange County Water District, currently supplements existing water supplies by providing a reliable, high-quality source of water to recharge the Orange County Groundwater Basin, to protect it from degradation due to seawater intrusion, and to provide a water source for industrial uses for approximately 2.5 million people in north and central Orange County in Southern California. Expansion of the existing GWRS is intended to increase capacity to the District's goal of 100% reuse.

**Texas**

**McAllen Public Utility Water Reuse Feasibility Study**

**City of McAllen**

**Federal Funding: \$150,000**

**Non-Federal Funding: \$150,000**

McAllen Public Utility (MPU) will conduct a feasibility study to perform a comprehensive evaluation of non-traditional sources of supply and develop a strategic plan that identifies the best and highest use of the available water sources for MPU. Potable reuse and development of brackish groundwater supplies have been identified as the most viable water supply alternatives to meet future needs in the City of McAllen, located in Hidalgo County Texas in the Lower Rio Grande Valley.

**City of Lubbock Potable Water Reuse Implementation Feasibility Study**

**City of Lubbock, Texas**

**Federal Funding: \$150,000**

**Non-Federal Funding: \$229,342**

The City of Lubbock will refine the high-level assessment of reclaimed water options from the City's Strategic Water Supply Plan completed in 2013 to develop a more detailed feasibility study specifically focusing on potable water reuse. The potable reuse options that will be evaluated as part of this study include indirect potable reuse for surface water and groundwater augmentation as well as direct potable reuse for customers within the City of Lubbock.

**Title XVI Feasibility Study of Water Reclamation and Reuse in Hudson Oaks, Texas**

**City of Hudson Oaks**

**Federal Funding: \$147,600**

**Non-Federal Funding: \$193,215**

The City of Hudson Oaks, Texas will conduct a feasibility study to evaluate reusing the City's treated effluent and storm water runoff as a means to stretch limited water supply. The study will analyze potential alternatives for water reclamation and reuse, including constructing a wastewater treatment plant in the City to treat and reuse local effluent; collecting and utilizing storm water runoff for reuse and distribution in the community, as well as for environmental habitat and recreation; and pumping treated wastewater from the nearby cities to Hudson Oaks for reuse.