

**COLORADO RIVER BOARD OF CALIFORNIA**

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



May 1, 2014

**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, May 14, 2014
Time: 10 a.m.
Place: Vineyard Room Holiday Inn Ontario Airport 2155 East Convention Center Way Ontario, CA 91764-4452 TEL: (909) 212-8000, FAX: (909) 418-6703

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  
May 14, 2014, Wednesday  
10:00 a.m.

Vineyard Room  
Holiday Inn Ontario Airport  
2155 East Convention Center Way  
Ontario, CA 91764-4452

**AGENDA**

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

1. Call to Order
2. Opportunity for the Public to Address the Board (Limited to 5 minutes)  
As required by Government Code, Section 54954.3(a)
3. Administration
  - a. Consideration and Approval of the Minutes of the Meeting held April 9, 2014  
**(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 2014 California Drought
6. Staff Reports regarding Colorado River Basin Programs
  - a. Review status of the Colorado River Basin Water Supply and Demand Study
  - b. Review status of the implementation of Minute 319
  - c. Review status of the Salinity Control Forum Workgroup and Advisory Council
  - d. Review status of the Glen Canyon Dam Adaptive Management Work Group and Long Term Experimental Management Plan EIS
  - e. Review status of the Lower Colorado River Basin Multi-Species Conservation Program
7. Approval of Lower Colorado Water Supply Project Applications **(Action)**
8. Announcements/Notices
9. Executive Session





Minutes of Meeting  
COLORADO RIVER BOARD OF CALIFORNIA  
Wednesday, April 9, 2014

A Meeting of the Colorado River Board of California was held at the Imperial Irrigation Water District, William Condit Auditorium, 1285 Broadway Street, El Centro, CA 92243, Wednesday, April 9, 2014.

Board Members and Alternates Present

Dana Bart Fisher, Jr., Chairman  
Franz De Klotz  
Stephen Benson  
Henry Kuiper  
Glen D. Peterson  
Doug Wilson

Jeanine Jones, Designee  
Department of Water Resources  
  
Christopher G. Hayes, Designee  
Department of Fish & Wildlife

Board Members and Alternates Absent

Terese Ghio  
James Hanks  
James McDaniel  
David Pettijohn

Bud Pocklington  
John Powell, Jr.

Others Present

Steve Abbott  
Vince Brooke  
Robert Cheng  
Dan Denham  
Matt Dessert  
William J. DuBois  
Kris Fontaine  
Ismael Gomez  
Bill Hasencamp  
Ian Hendry  
Michael Hughes  
Lisa Johansen  
Al Kalin  
Eric Katz  
Bruce Kuhn

Kara Mathews  
Jan Matusak  
Autumn Plourd  
Angela Rashid  
Eric Ruckdaschel  
Jack Seiler  
Tina Shields  
Peter Silva  
Ed Smith  
Joanna Smith  
Carl Stills  
Mark Stuart  
Tanya Trujillo  
Charles Van Dyke

## **CALL TO ORDER**

Chairman Fisher announced the presence of a quorum and called the meeting to order at 1:31 p.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. Hearing none, Chairman Fisher moved to the next agenda item.

Mr. Steve Benson welcomed the Colorado River Board to the Imperial Valley and the Imperial Irrigation District (IID) and summarized the tour hosted by IID. Mr. Benson introduced IID's General Manager, Kevin Kelly, Power Manager, Carl Stills, Water Manager, Ismael Gomez, Colorado River manager Tina Shields, and other staff members.

## **ADMINISTRATION**

### **Approval of Minutes of the March 12, 2014 Colorado River Board Meeting**

Chairman Fisher asked if there was a motion to approve the March 12, 2014 minutes. Mr. Benson moved that the minutes be approved, seconded by Mr. Kuiper, and unanimously carried, the March 12, 2014, meeting minutes were approved.

### **Resolution in Honor of Jack Foley**

Chairman Fisher presented a draft resolution in honor of Jack Foley, who served for sixteen years on the Colorado River Board. The resolution recognizes Mr. Foley's public service for the State of California and as an outstanding leader on water issues in Southern California. Mr. Fisher reported that Mr. Foley was a natural leader. He had served a tour of duty in Vietnam, and during that time had commanded an engineering team that was headed by Dennis Underwood, a previous Executive Director of the Colorado River Board. Board member Mr. Peterson commented that Jack Foley was the second longest running Chairman of the Board at The Metropolitan Water District of Southern California.

**MOTION:** Upon the motion of Mr. Wilson, seconded by Mr. Kuiper, and unanimously carried, the Board adopted the resolution to honor Mr. Jack Foley.

### **Resolution in Honor of Rita Schmidt Sudman**

Ms. Trujillo presented a draft resolution in honor of Rita Schmidt Sudman, who has announced her retirement after 34 years of service as the Executive Director of the

Water Education Foundation. The resolution recognizes her leadership and enthusiasm and her many years of service to the State of California and its water users. Ms. Trujillo reported that Ms. Sudman was very instrumental in setting up the Water Education Foundation, and establishing publications such as the Western Water Magazine and the River Report.

MOTION: Upon the motion of Mr. Benson, seconded by Mr. Wilson, and unanimously carried, the Board adopted the resolution to honor Ms. Rita Schmidt Sudman.

## **COLORADO RIVER BASIN WATER REPORT AND CALIFORNIA DROUGHT UPDATE**

### **Colorado River Basin Water Report**

Ms. Trujillo provided the Board with an updated water report regarding precipitation and water supply conditions in the Colorado River Basin. She reported that as of March 31, 2014, the water level at Lake Mead was at 1,102 feet with 11.91 million acre-feet (maf) of storage, or 46% of capacity, while the water level at Lake Powell was at 3,575 feet with 9.50 maf of storage, or 39% of capacity. She reported that the total System active storage was 28.19 maf, or 47% of capacity, which is 3.69 maf less than this time last year. Ms. Trujillo reported that portions of Wyoming and Colorado still had regions with snowpack slightly above average, but other regions within the Basin were below normal. She also reported that Bureau of Reclamation currently projects that unregulated inflow into Lake Powell could be approximately 11.4 maf.

Ms. Trujillo noted that with Governor Brown's declaration of a Drought State of Emergency on January 17, 2014, work continues on the actions intended to help address statewide drought conditions. She reported that the Department of Water Resources continues to issue weekly Drought Briefs providing updates on current conditions and key actions taking place regarding the drought. Ms. Trujillo also described the April 1, 2014 Drought Monitor map for California that indicates that approximately 70% of the State is experiencing extreme or exceptional drought conditions and 100% of the state is experiencing some level of drought conditions. Despite recent rainfall and late-season storms, the statewide snowpack reports are still far below average, having only reached 32% of average as of the April 1 snowpack readings.

### **State and Local Agency Reports**

Mr. Mark Stuart with the Department of Water Resources provided a brief overview of the statewide precipitation and water supply conditions. Mr. Stuart reported that precipitation in the southern California region is well below normal, and that the water year should finish with the region having received about six inches for the year. Mr. Stuart reported that with several good storms during March that the Sierra snowpack has recovered somewhat, but that the overall snowpack was still well below normal, at

about 40% of average. Currently, DWR projects that the runoff is likely to be about 25% of normal. Mr. Stuart also reported that statewide reservoir storage still remains well below normal for this time of year.

Mr. Glen Peterson, of the Metropolitan Water District of Southern California, reported that MWD's total system storage was currently at about 70%. He stated that MWD is conserving as much water as possible in the large Diamond Valley Reservoir for use later in the summer months. Mr. Peterson reported that MWD is also currently involved in a number of important water storage and conservation programs in the Central Valley, and that MWD will likely be drawing upon these supplies as the year progresses.

Ms. Trujillo reported to the Board that California's U.S. Senators Feinstein and Boxer have proposed legislation related to California's continuing drought conditions, and that the current version of the bill includes a Colorado River Basin provision that is intended to increase system storage in both the upper and lower basins through a Colorado River Basin System Water Pilot Project. She indicated that MWD's Board recently approved participation in this proposed pilot project. Ms. Trujillo stated that the Board will continue to monitor the progress of the legislation and report back as appropriate.

Ms. Jeanine Jones, of the Department of Water Resources, reported that the Department, in conjunction with Reclamation, released a drought operations plan that will guide the coordinated operations of the State and Federal Water Projects in California. This plan will take into account the needs of the salmon and other endangered fisheries, Delta water quality requirements, as well as the agricultural and M&I uses and demands in the Central Valley.

## **COLORADO RIVER BASIN PROGRAM REPORTS**

### **Presentation Regarding the Salton Sea Restoration and Renewable Energy Initiative**

Mr. Kevin Kelly, Manager of the Imperial Irrigation District, gave a brief presentation on the Salton Sea Restoration and Renewable Energy Initiative and the Salton Sea's geothermal energy resource potential. Mr. Kelly began his presentation with a brief history of the Salton Sea, noting that a flood on the Colorado River that occurred from 1905 to 1907 formed the Salton Sea. Mr. Kelly noted that the Salton Sea is destined to become smaller as a result of water transfers that IID is implementing as mandated by the Quantification Settlement Agreement (QSA). Further, by 2030, it is estimated that approximately 60,000 acres of the southern end of the Salton Sea will be exposed, exposing the community to health risks. Mr. Kelly explained that although the recession of the Salton Sea presents significant environmental and health risks, that restoration of the Salton Sea may lie with developing its vast geothermal resources. It is estimated that the area has approximately 2,000 MW of untapped geothermal energy, with a majority of it located on IID-owned lands.

Mr. Kelly explained that the IID Board, the Imperial County Board of Supervisors, and the Imperial County Air Pollution Control District signed a Memorandum of Understanding in the fall of 2013, which made way for the Salton Sea Restoration and Renewable Energy Initiative. Mr. Kelly noted that one potential vehicle that could make this initiative possible is California State Senate Bill 1139. SB 1139 would compel all utilities in the State to purchase 500 megawatts of geothermal over the next five to ten years. Mr. Kelly explained that geothermal energy is a good alternative to intermittent resources such as wind and solar, as it can maintain a more stable base load. Mr. Kelly stated that the Salton Sea Restoration and Renewable Energy Initiative has been endorsed by the Southern California Association of Governments Regional Council and urged the Colorado River Board to support the initiative as well.

Board Member Benson asked for more information regarding the State's obligation to the Salton Sea once Joint Powers monies are expended. Mr. Kelly responded that the mitigation obligation to deliver water to Salton Sea as required by the QSA ends in 2017. Mr. Kelly added that developing the Salton Sea's geothermal resources could provide a funding mechanism for any potential restoration efforts.

#### Colorado River Basin Water Supply and Demand Study

Ms. Trujillo reported that the Basin Study Work Groups, which include the Municipal Conservation & Reuse, Agricultural Conservation, and Environmental Flows Work Groups, are continuing to progress. Ms. Trujillo also thanked Board Members for their assistance on the Agricultural Conservation Work Group and during the latest in-person meeting held in San Diego, CA, at the end of March. Ms. Trujillo noted that the California agricultural entities provided helpful background information regarding the complexities associated with agricultural conservation in the region. Ms. Trujillo reported that the Work Groups were on schedule to prepare their respective Phase 1 reports and will soon begin discussions regarding concepts for Phase 2. The next Work Group meetings are scheduled for early and mid-May. The Coordination Committee is scheduled to meet in person on May 19, 2014, at McCarran Airport in Las Vegas.

#### Minute 319 Implementation

Ms. Trujillo reminded Board members that the Environmental Flows Delivery Plan developed by the Consultative Council and submitted to IBWC and CILA, was approved on February 18, 2014. The scheduled pulse flow began with water being released from Morelos Dam in Mexico on March 23, 2014. The pulse flow will include approximately 105,000 acre-feet of water that will be released for approximately eight weeks. A ceremony hosted by the Mexican delegation was held at Morelos Dam on March 27, 2014. Chairman Fisher provided remarks at the ceremony on behalf of the Basin States and the water and power users in the Colorado River System. Also present were Deputy Secretary Connor, Anne Castle, and high level delegates from the Mexican government. Ms. Trujillo also reported that the pulse flow is being closely monitored by the U.S. and Mexican scientists. As of April 6, 2014, the pulse flow had traveled

approximately 60 miles downriver. Ms. Trujillo showed a photo of the water coming down into the dry river bed. Several entities are writing blogs and providing updates of how the flow is tracking. They are also monitoring how the pulse flow is benefiting the birds and other wildlife in the area.

Chairman Fisher reported that, as of April 9, 2014, BOR's update on the Pulse Flow indicated that the water had reached the Laguna Grande restoration area and may connect to the Rio Hardy River. Mr. Fisher also reported that the environmental flows component was a high priority of the bi-national group of Non-Governmental Organizations (NGOs) and Mexico's previous administration.

Ms. Trujillo reported that the environmental flows component is one of several components that needs further development in the context of Minute 319. There is also a commitment to try to work on a more long-term agreement with Mexico. Minute 319 is a five-pilot project with an opportunity for a broader agreement.

In response to Mr. Wilson's question, Ms. Trujillo responded that part of the delivery plan includes the base flow component, in addition to the pulse flow. The base flow quantity is about 52,000 acre-feet that would be utilized between 2014 and 2017 in support of some of the habitat that had been developed as a response to the pulse flow. That water is held through a water trust in Mexico. Ms. Trujillo reported that the NGOs have committed to fundraising to purchase the water rights for that trust.

#### Colorado River Basin Salinity Control Program

Ms. Trujillo reported on the on-going process to identify feasible options for addressing the Lower Basin Fund shortfall associated with funding the Lower Basin States' cost-share obligation related to implementation of the Salinity Control Program. She explained that the revenue for the Fund is derived from the generation and sale of electrical energy at Hoover, Davis and Parker Dams, and that declining reservoir elevations have impacted the amount of energy generated and revenues collected. She indicated that the seven Basin States are working to develop strategies that can increase revenues and/or modify the cost-sharing ratios. Regardless of what strategy is ultimately chosen as most feasible, it will likely require federal legislation. Ms. Trujillo also reported that the next meeting of the Salinity Control Forum has been scheduled for June 12-13, 2014, and will be held in Jackson, Wyoming.

Board member Benson asked about the status of the Yuma Desalting Plant. Ms. Trujillo responded that the Yuma Desalting Plant, which was authorized by the same legislation that established the Salinity Control Program, is not active. Reclamation uses it as a research facility. Reclamation completed a test project at the facility and issued a final report in 2012. The report indicated that the facility ran at one-third of its capacity, which resulted in a savings of about 30,000 acre-feet. Ms. Trujillo also reported that the potential to restart the facility and generate more water savings in the basin continues as a discussion topic between the Department of Interior and the Basin States.

Chairman Fisher reported that the States are trying to develop creative solutions in keeping Lake Mead elevations high enough to prevent either water shortage triggers or put the Hoover intake for Las Vegas, Nevada in jeopardy.

#### Glen Canyon Dam—Long-Term Experimental Management Plan (LTEMP) EIS Process

Ms. Trujillo provided an overview of the recent modeling results workshop that was held on March 31-April 1, 2014, in Tempe, Arizona. She reported that at that workshop the LTEMP EIS co-leads (Reclamation and National Park Service) presented the detailed results of modeling that was performed on all of the proposed LTEMP EIS alternatives. The data consistently indicated that the Basin States' "Resource-Targeted Condition-Dependent" alternative performed the best from the perspective of humpback chub conservation, non-native trout management, and sediment conservation. She reported that the Basin States continue to work closely with the co-lead agencies and the DOI Management Team in analysis of the various alternatives, accurate depiction of important resource goals, and the development of a preferred alternative for the draft LTEMP EIS.

#### Lower Colorado River Multi-Species Conservation Program

Ms. Trujillo reported that Board staff attended the recent Work Group meeting in Yuma, Arizona, on March 12-13, 2014. At the meeting, Reclamation's Lower Colorado River Multi-Species Conservation Program (LCR MSCP) Implementation Group gave a detailed overview of the conceptual ecological models that were being developed to help identify critical information needs and potential work task activities to be included in Annual Work Plans and budgets. The use of the conceptual ecological models are intended to make the adaptive management component of the LCR MSCP even more effective and robust. Additionally, Reclamation staff provided members of the Work Group with a tour of the newly implemented Laguna Division Habitat Conservation Area located between Imperial and Laguna Dams. This nearly 2,000 acre project includes water control structures which allow periodic flooding of the created habitats, both marsh and native riparian vegetation. Finally, she reported that the LCR MSCP Steering Committee would be meeting in Las Vegas, Nevada, on April 23, 2014.

#### Next Board Meeting

Chairman Fisher announced that there is no executive session today and that the next meeting of the Colorado River Board will be held on Wednesday, May 14, 2014, at 10:00 a.m. at the Holiday Inn Ontario Airport, 2155 East Convention Center Way, Ontario, California.

There being no further items to be brought before the Board, Chairman Fisher asked for a motion to adjourn the meeting. Upon the motion of Mr. Wilson, seconded by Mr. Kuiper, and unanimously carried, the meeting was adjourned at 2:36 p.m. on April 9, 2014.



May 05, 2014

## 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	40%	9,823	3578.64	8,300
* LAKE MEAD	43%	11,185	1093.77	18,300
LAKE MOHAVE	93%	1,688	642.62	16,200
LAKE HAVASU	93%	577	447.83	11,900
TOTAL SYSTEM CONTENTS **	47%	28,095		
As of 05/04/2014				
SYSTEM CONTENT LAST YEAR	52%	31,090		
* 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%	1,298		
Painted Rock Dam	0%	0	530.00	0
Alamo Dam	5%	54	1088.93	25
Forecasted Water Use for Calendar Year 2014 (as of 05/05/2014) (values in kaf)				
NEVADA			277	
SOUTHERN NEVADA WATER SYSTEM				247
OTHERS				30
CALIFORNIA			4,135	
METROPOLITAN WATER DISTRICT OF CALIFORNIA				649
IRRIGATION DISTRICTS				3,379
OTHERS				107
ARIZONA			2,754	
CENTRAL ARIZONA PROJECT				1,520
OTHERS				1,234
TOTAL LOWER BASIN USE				7,165
DELIVERY TO MEXICO - 2014 (Mexico Scheduled Delivery + Preliminary Yearly Excess <sup>1</sup> )				1,579
OTHER SIGNIFICANT INFORMATION				
UNREGULATED INFLOW INTO LAKE POWELL - MAY FINAL FORECAST DATED 05/02/2014				
		MILLION ACRE-FEET	% of Normal	
FORECASTED WATER YEAR 2014		10.816	100%	
FORECASTED APRIL-JULY 2014		7.550	105%	
APRIL OBSERVED INFLOW		0.964	91%	
MAY INFLOW FORECAST		2.700	115%	
		Upper Colorado Basin	Salt/Verde Basin	
WATER YEAR 2014 PRECIP TO DATE		97% (20.9")	54% (9.6")	
CURRENT BASIN SNOWPACK		102% (11.9")	NA (NA)	

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



# COLORADO BASIN RIVER FORECAST CENTER

NATIONAL WEATHER SERVICE / NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

RIVERS SNOW WATER SUPPLY RESERVOIRS WEATHER HELP

Conditions Map Conditions List Snow Groups

Areas: CBRFC Upper Colorado Green San Juan Great Sevier Virgin Lower Colorado

## Snow Conditions

### Snow Conditions

Data Queried: Thu, 01 May 2014 18:20:01 -0600

[Help](#), [Double Click Map to Zoom](#), Lat: 37.6 Lng: -110.5, Zoom: 6

Search Points

#### Forecast Group

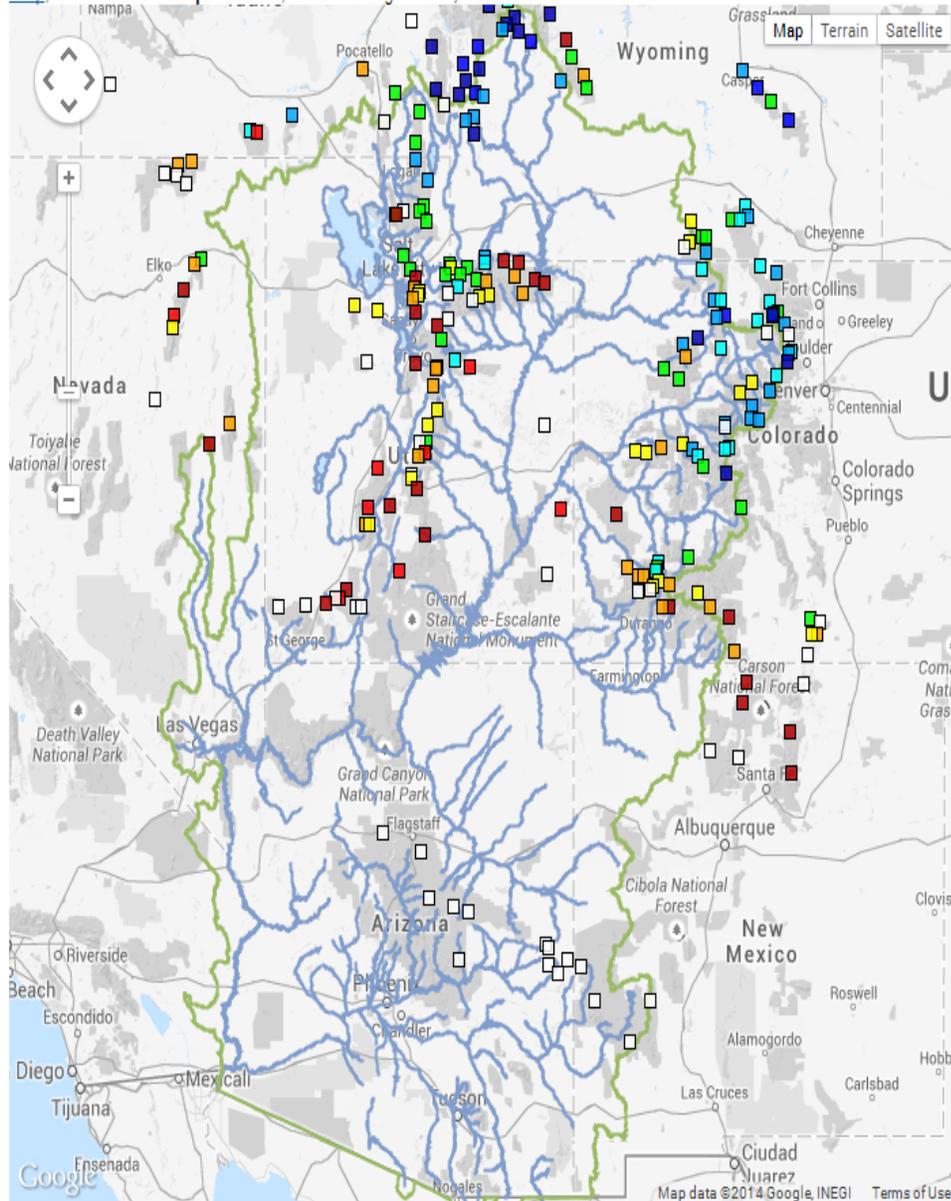
All Points

#### Overlays

- Rivers
- RFC Boundary
- Forecast Groups
- Basins

#### Snow Sites

- All
- No Data
- No Average
- < 7000 ft
- 7000-8000 ft
- 8000-9000 ft
- 9000-10000 ft
- > 10000 ft



- #### Snow
- Percentiles
  - Percent Average
  - Percent Median
  - No Data
  - < 25%
  - 25-50%
  - 50-75%
  - 75-90%
  - 90-110%
  - 110-125%
  - 125-150%
  - 150-175%
  - >175%

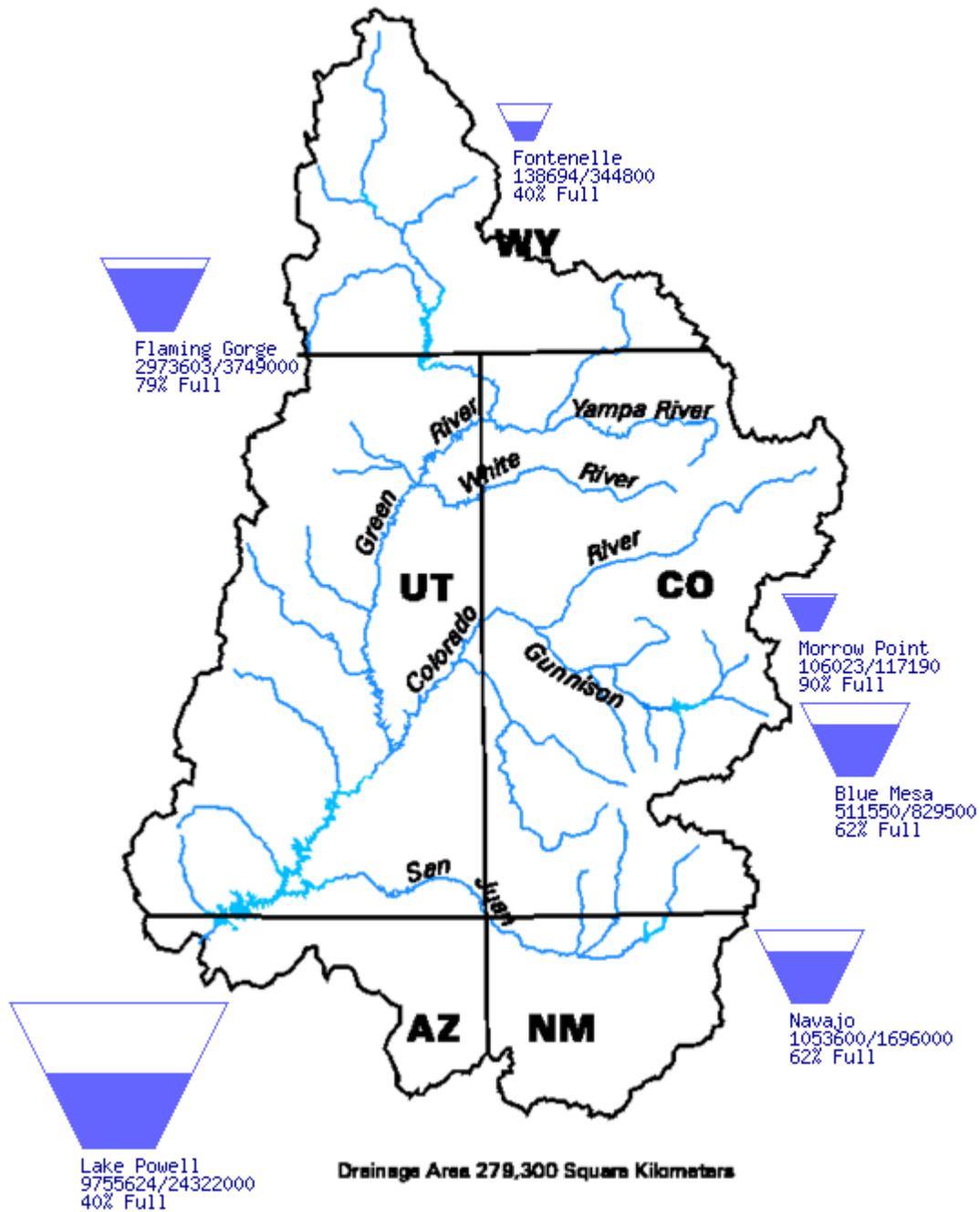
Map data ©2014 Google, INEGI Terms of Use

# Upper Colorado Region Water Resources Group

## River Basin Tea-Cup Diagrams

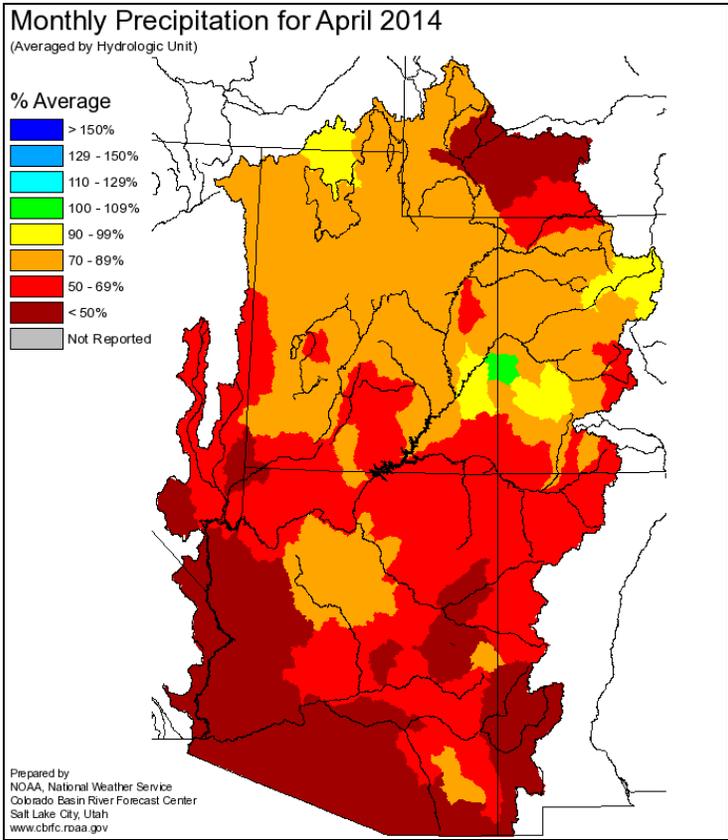
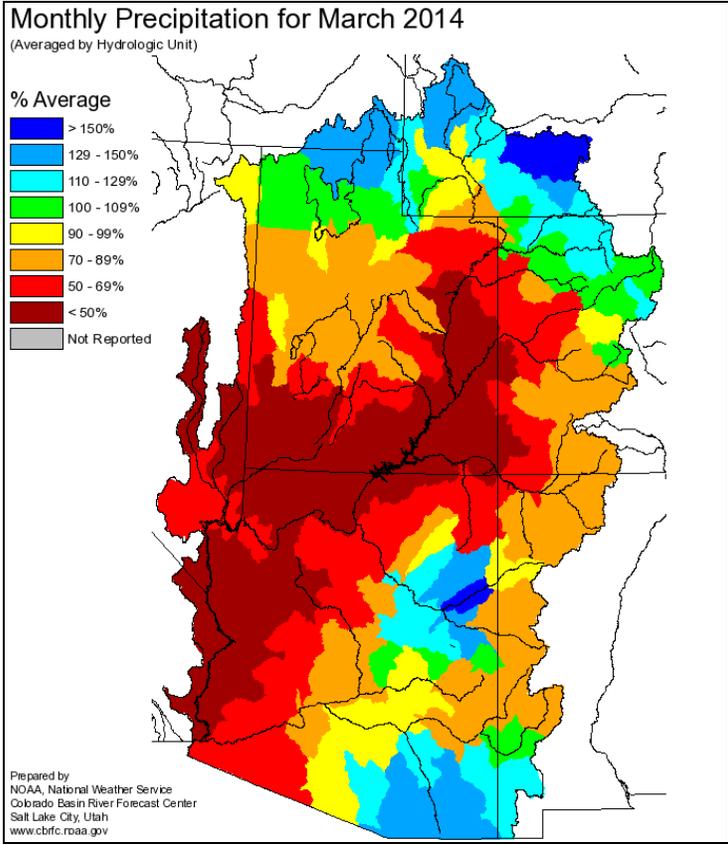
Data Current as of:  
05/01/2014

### Upper Colorado River Drainage Basin



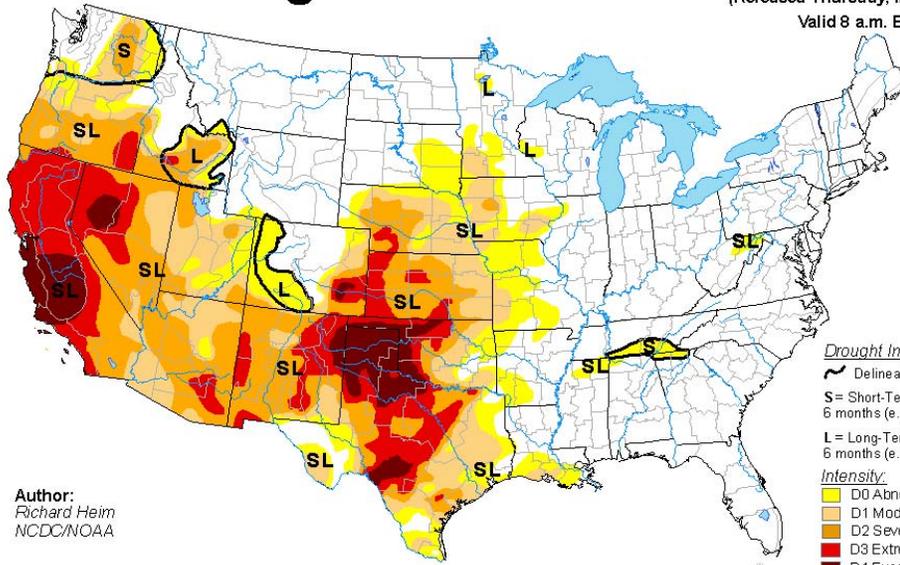
Email comments/inquires to: [ResourceMgr@usbr.gov](mailto:ResourceMgr@usbr.gov)

NOAA National Weather Service Monthly Precipitation Maps for March and April 2014



# U.S. Drought Monitor

**April 29, 2014**  
 (Released Thursday, May 1, 2014)  
 Valid 8 a.m. EDT

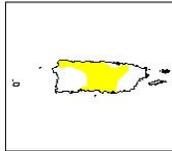
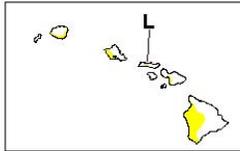
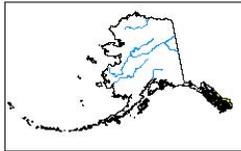


Author:  
 Richard Heim  
 NCDC/NOAA

**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:**  
 Yellow: D0 Abnormally Dry  
 Light Orange: D1 Moderate Drought  
 Orange: D2 Severe Drought  
 Red: D3 Extreme Drought  
 Dark Red: D4 Exceptional Drought

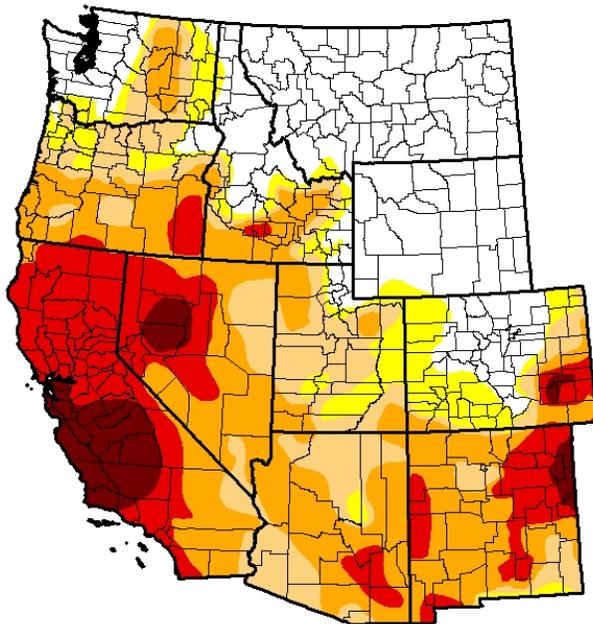
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.



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

## U.S. Drought Monitor West

**April 29, 2014**  
 (Released Thursday, May 1, 2014)  
 Valid 8 a.m. EDT



Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
<b>Current</b>	30.05	69.95	61.43	45.66	19.80	4.66
<b>Last Week</b> 4/22/2014	30.11	69.89	61.61	45.09	17.93	4.61
<b>3 Months Ago</b> 1/28/2014	17.38	82.62	63.50	39.67	15.29	1.80
<b>Start of Calendar Year</b> 12/31/2013	22.20	77.80	51.44	31.11	7.75	0.63
<b>Start of Water Year</b> 10/1/2013	25.25	74.75	58.96	34.18	5.57	0.63
<b>One Year Ago</b> 4/30/2013	19.56	80.44	66.68	45.32	15.09	4.08

**Intensity:**  
 Yellow: D0 Abnormally Dry  
 Light Orange: D1 Moderate Drought  
 Orange: D2 Severe Drought  
 Red: D3 Extreme Drought  
 Dark Red: D4 Exceptional Drought

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

Author:  
 Richard Heim  
 NCDC/NOAA

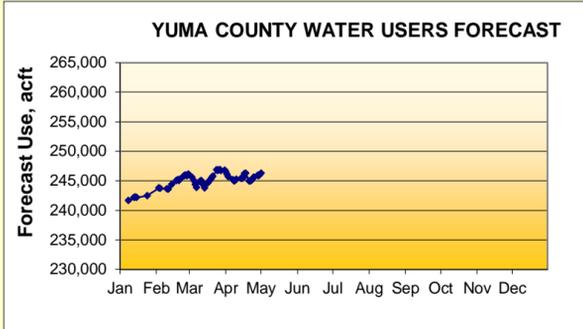
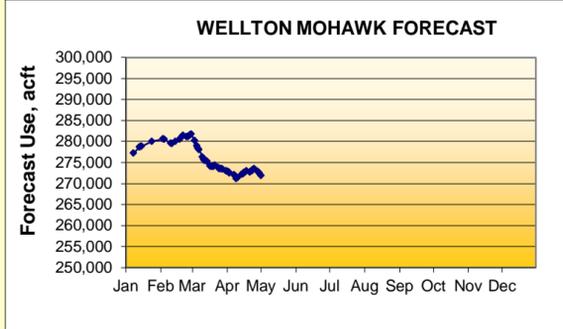
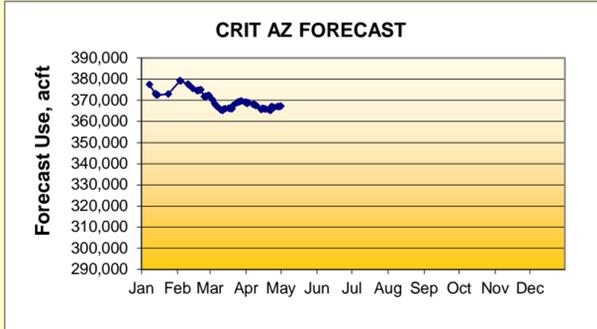
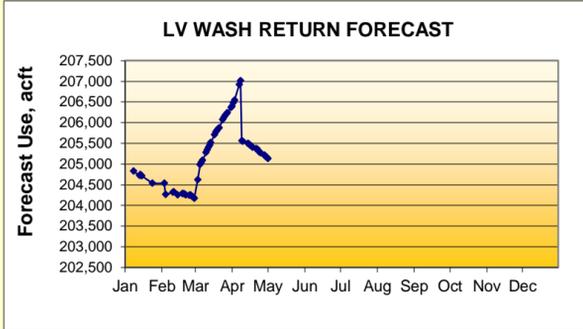
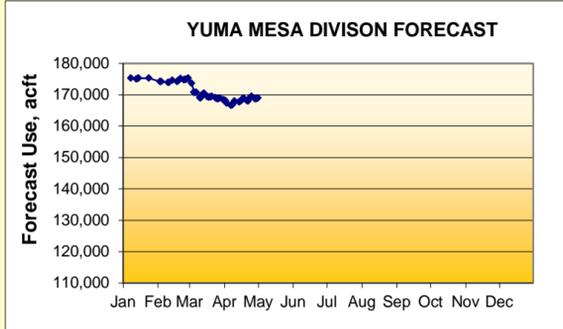
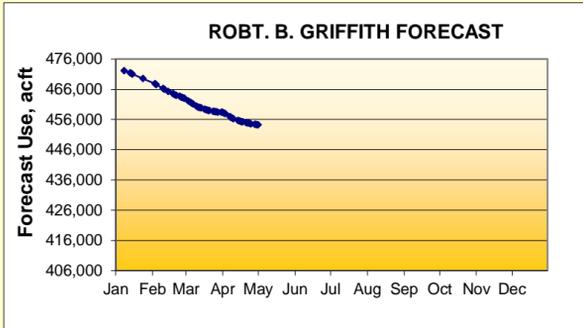
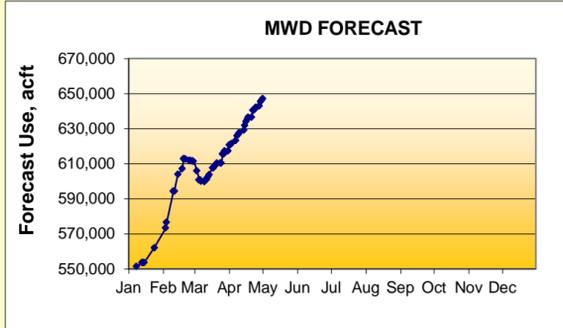
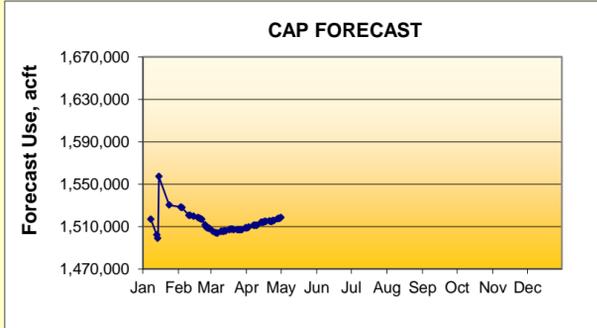
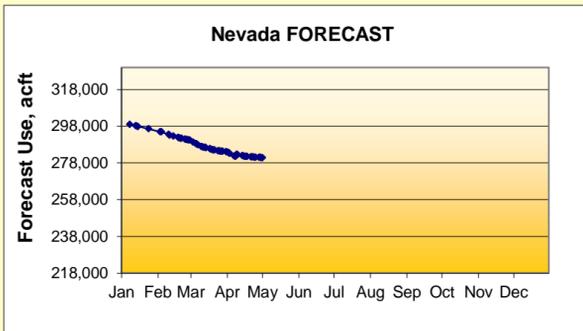
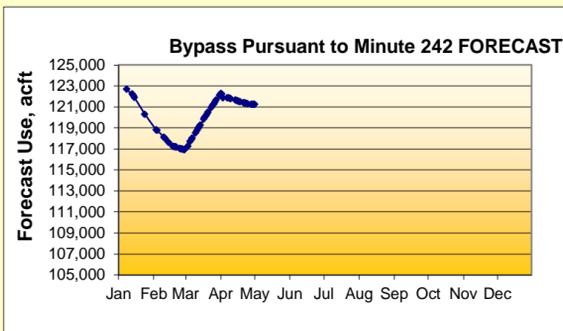
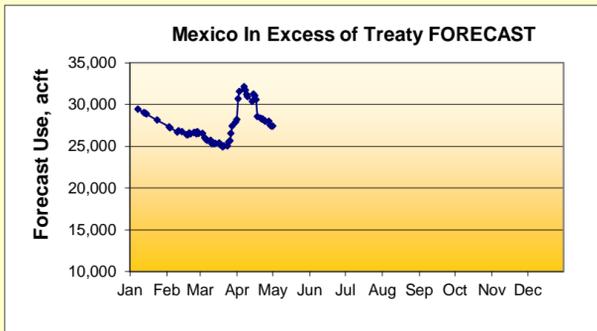
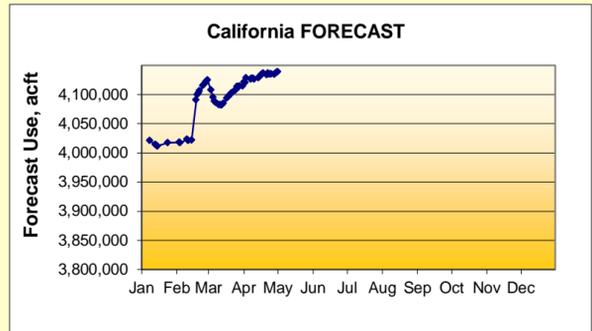
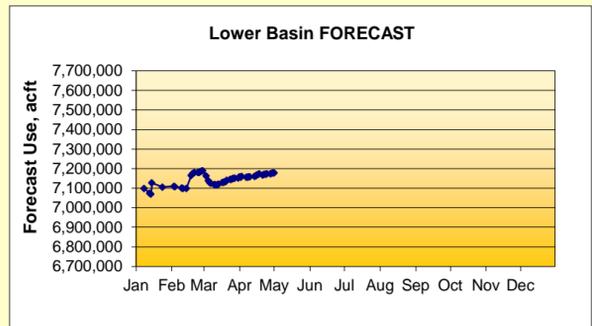


<http://droughtmonitor.unl.edu/>

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

WATER USE SUMMARY	Use To Date CY2014	Forecast Use CY2014	Approved Use <sup>2</sup> CY2014	Excess to Approval CY2014
ARIZONA	928,778	2,758,917	2,799,672	-40,755
CALIFORNIA	1,416,386	4,138,972	4,020,262	118,710
NEVADA	51,507	280,973	300,000	-19,027
<b>STATES TOTAL /3</b>	<b>2,396,671</b>	<b>7,178,862</b>	<b>7,119,934</b>	<b>58,928</b>
MEXICO IN SATISFACTION OF TREATY (Including downward d TO MEXICO AS SCHEDULED	795,443	1,527,412	1,500,000	27,412
MEXICO IN EXCESS OF TREATY	788,031	1,500,000		
BYPASS PURSUANT TO MINUTE 242	34,122	121,223		
<b>TOTAL LOWER BASIN &amp; MEXICO</b>	<b>3,226,236</b>	<b>8,827,497</b>		

- 1/ Incorporates Jan-Feb USGS monthly data and 77 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 Dept. of Water Resources, Colorado River Board of California, and Reclamation.



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.

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 To Date CY2014	Forecast Use CY2014	Estimated Use CY2014	Excess to Estimated Use CY2014	Diversion To Date CY2014	Forecast Diversion CY2014	Approved Diversion CY2014	Excess To Approved Diversion CY2014
CALIFORNIA PUMPERS	643	1,958	1,958	---	1,150	3,500	3,500	0
FORT MOJAVE INDIAN RESERVATION, CA	2,738	8,131	8,996	---	5,090	15,112	16,720	-1,608
CITY OF NEEDLES (includes LCWSP use)	634	1,931	1,931	0	894	2,720	2,720	0
METROPOLITAN WATER DISTRICT	342,181	647,233	546,660	---	343,181	651,217	549,763	---
COLORADO RIVER INDIAN RESERVATION, CA	1,131	3,444	3,444	---	1,941	5,909	5,909	0
PALO VERDE IRRIGATION DISTRICT	110,963	448,547	454,108	---	276,647	1,000,147	994,500	<b>5,647</b>
YUMA PROJECT RESERVATION DIVISION	21,626	49,790	47,886	---	34,201	99,001	102,700	-3,699
YUMA PROJECT RESERVATION DIVISION - INDIAN UNIT	---	---	---	---	16,564	47,545	49,100	-1,555
YUMA PROJECT RESERVATION DIVISION - BARD UNIT	---	---	---	---	17,637	51,457	53,600	-2,143
YUMA ISLAND PUMPERS	1,634	4,974	4,974	---	2,957	9,001	9,001	0
FORT YUMA INDIAN RESERVATION - RANCH 5	177	540	675	---	322	979	1,221	-242
IMPERIAL IRRIGATION DISTRICT	805,308	2,526,871	2,506,803	<b>20,068</b>	819,036	2,618,068	2,607,017	---
SALTON SEA SALINITY MANAGEMENT	21,367	90,000	90,000	0	22,321	93,585	93,451	---
COACHELLA VALLEY WATER DISTRICT	107,705	354,705	352,000	<b>2,705</b>	111,218	369,487	366,370	---
OTHER LCWSP CONTRACTORS	214	650	650	---	334	1,016	1,016	0
CITY OF WINTERHAVEN	23	69	69	---	34	104	104	0
CHEMEHUEVI INDIAN RESERVATION	42	128	6,101	---	3,725	11,340	11,340	0
<b>TOTAL CALIFORNIA</b>	<b>1,416,386</b>	<b>4,138,972</b>			<b>1,623,051</b>	<b>4,881,185</b>	<b>4,765,332</b>	
FORT YUMA INDIAN RESERVATION /1	---	---	---	---	18,024	52,024	53,821	-1,797

**CALIFORNIA ADJUSTED APPORTIONMENT CALCULATION**

California Basic Apportionment	4,400,000
Payback of IOPP Overrun (IID)	-154,738
Intentionally Created Surplus Water (IID)	-25,000
Creation of Extraordinary Conservation ICS (MWD)	-200,000
<b>Total State Adjusted Apportionment</b>	<b>4,020,262</b>
Excess to Total State Adjusted Apportionment	118,710

**ISG ANNUAL TARGET COMPARISON CALCULATION**

Priorities 1, 2, 3b Use (PVID+YPRD+Island+PVID Mesa)	503,311
MWD Adjustment	-83,311
Total California Agricultural Use (PVID+YPRD+Island+IID+CVWD)	3,384,887
California Agricultural Paybacks	-154,738
Misc. PPRs Covered by IID and CVWD	14,500
California ICS Creation (IID ICS)	25,000
<b>Total Use for Target Comparison<sup>2</sup></b>	<b>3,186,338</b>
ISG Annual Target (Exhibit B)	3,462,000
Amount over/(under) ISG Annual Target	(275,662)

NOTES:

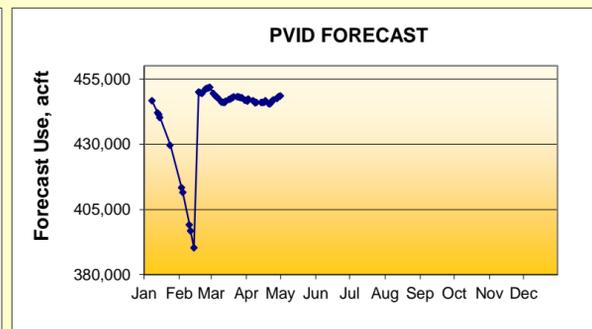
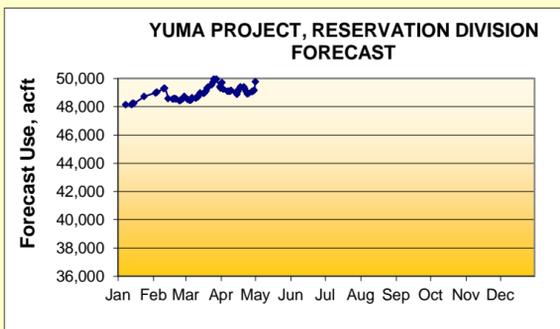
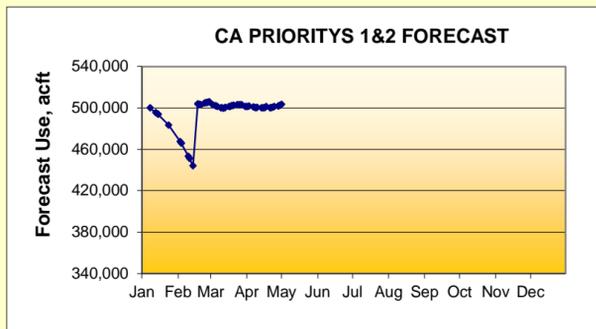
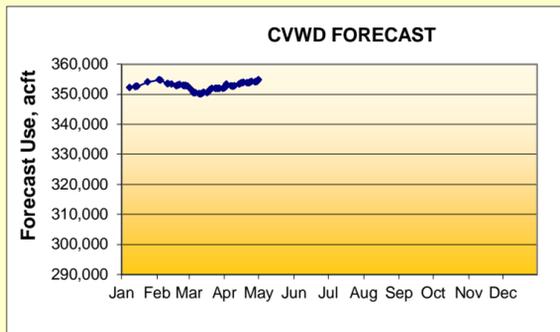
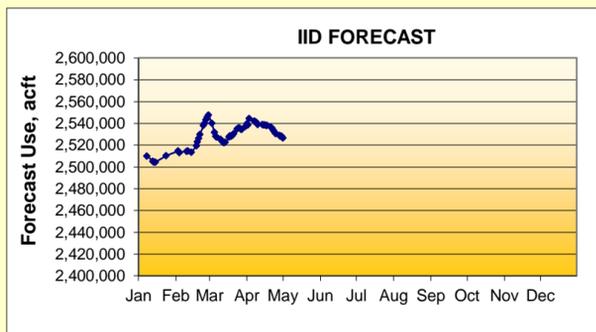
Ranch 5

Yuma Island assumed to be included in Priority 2.

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

1/ Fort Yuma Indian Reservation includes Yuma Project Reservation Division Indian Unit, Ranch 5, an estimate of domestic use and pumpers.

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  
PROVISIONAL CY2014

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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 \(Water Accounting Reports\)](#)

WATER USER	Use To Date CY2014	Forecast Use CY2014	Estimated Use CY2014	Excess to Estimated Use CY2014	Diversion To Date CY2014	Forecast Diversion CY2014	Approved Diversion CY2014	Excess to Approved Diversion CY2014
ARIZONA PUMPERS	5,861	17,842	17,842	---	9,069	27,607	27,607	0
LAKE MEAD NATIONAL RECREATION AREA, AZ	37	271	299	---	78	312	299	13
DAVIS DAM PROJECT	1	2	2	---	18	54	54	0
BULLHEAD CITY	1,186	7,370	8,522	---	2,765	11,995	12,720	-725
MOHAVE WATER CONSERVATION	162	494	494	---	242	738	738	0
BROOKE WATER LLC	70	212	212	---	104	317	317	0
MOHAVE VALLEY IDD	3,680	19,501	22,617	---	7,809	37,108	41,883	-4,775
FORT MOJAVE INDIAN RESERVATION, AZ	11,927	44,016	42,120	---	22,088	81,512	78,000	3,512
GOLDEN SHORES WATER CONSERVATION DISTRICT	79	239	239	---	117	357	357	0
HAVASU NATIONAL WILDLIFE REFUGE	2,090	4,519	3,563	956	15,170	43,700	41,820	1,880
LAKE HAVASU CITY	1,333	7,905	9,083	---	3,788	14,388	14,650	-262
CENTRAL ARIZONA PROJECT	568,887	1,518,376	---	---	568,887	1,518,376	---	---
TOWN OF PARKER	107	364	357	7	250	926	935	-9
COLORADO RIVER INDIAN RESERVATION, AZ	93,608	367,000	367,000	---	182,145	662,935	662,402	533
EHRENBURG IMPROVEMENT ASSOCIATION	80	245	245	---	113	343	343	0
CIBOLA VALLEY IRRIGATION DISTRICT	5,569	16,951	16,951	---	7,788	23,707	23,707	0
CIBOLA NATIONAL WILDLIFE REFUGE	4,186	12,741	12,741	0	6,751	20,550	20,550	0
IMPERIAL NATIONAL WILDLIFE REFUGE	860	2,619	2,619	0	1,388	4,224	4,224	0
YUMA PROVING GROUND	41	450	504	---	94	503	504	-1
GILA MONSTER FARMS	2,047	6,046	5,244	---	3,433	10,135	9,156	979
WELLTON MOHAWK IDD	81,716	271,870	278,000	-6,130	121,504	414,020	424,997	---
CITY OF YUMA	3,656	15,019	16,451	-1,432	6,854	24,679	26,358	-1,679
MARINE CORPS AIR STATION YUMA	144	1,361	1,718	---	144	1,361	1,718	-357
UNION PACIFIC RAILROAD	5	24	29	---	16	48	48	0
YUMA MESA FRUIT GROWERS ASSOCIATION	0	0	0	---	0	0	0	0
UNIVERSITY OF ARIZONA	90	461	536	---	139	510	536	-26
YUMA UNION HIGH SCHOOL DISTRICT	29	142	150	---	73	224	200	24
YUMA MESA FRUIT COMPANY	0	0	0	---	0	0	0	0
DESERT LAWN MEMORIAL	5	44	46	---	7	63	66	-3
NORTH GILA VALLEY IDD	2,747	10,559	12,383	---	14,271	51,174	51,963	-789
YUMA IRRIGATION DISTRICT	14,206	41,914	42,991	---	24,551	75,404	76,600	-1,196
YUMA MESA IDD	27,559	116,450	119,077	---	54,089	212,558	217,488	-4,930
UNIT "B" IRRIGATION DISTRICT	4,307	19,801	20,409	---	7,381	32,081	33,450	-1,369
FORT YUMA INDIAN RESERVATION	410	1,247	1,397	---	706	2,150	2,150	0
YUMA COUNTY WATER USERS' ASSOCIATION	90,758	246,232	241,117	---	131,336	383,336	383,000	336
COCOPAH INDIAN RESERVATION	1,255	6,383	6,598	---	1,912	9,732	10,055	-323
RECLAMATION-YUMA AREA OFFICE	81	247	247	---	81	247	247	0
RETURN FROM SOUTH GILA WELLS	0	0	0	---	---	---	---	---
<b>TOTAL ARIZONA</b>	<b>928,778</b>	<b>2,758,917</b>	<b>2,789,711</b>		<b>1,195,161</b>	<b>3,667,374</b>	<b>3,707,049</b>	
CAP	568,887	1,518,376				1,518,376		
ALL OTHERS	359,891	1,240,541	1,251,804			2,148,998	2,169,142	
YUMA MESA DIVISION, GILA PROJECT	44,512	168,923	250,000	-81,077		339,136		

**ARIZONA ADJUSTED APPORTIONMENT CALCULATION**

Arizona Basic Apportionment	2,800,000
Payback of IOPP overruns (Cocopah, Beattie Farms)	-328
System Conservation Created in Arizona (YMIDD)	
Intentionally Created Unused Apportionment for MWD	
Total State Adjusted Apportionment	2,799,672
Excess to Total State Adjusted Apportionment	-40,755

Estimated Allowable Use for CAP 1,567,905

## NOTES:

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

05/01/14

U.S. BUREAU OF RECLAMATION  
LOWER COLORADO REGION  
PROVISIONAL CY2014

## 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

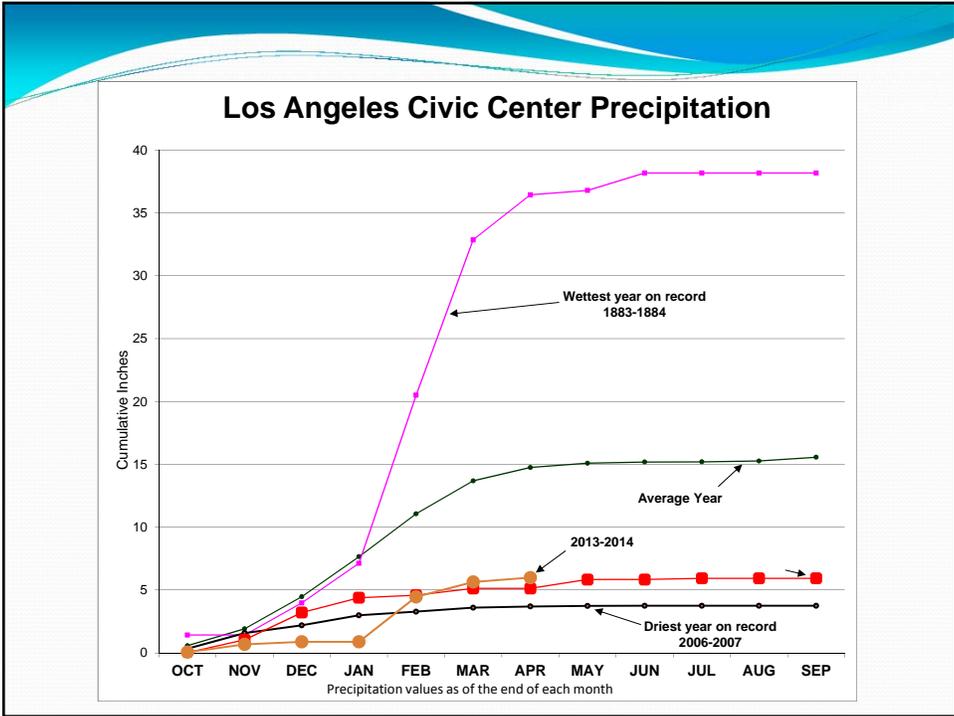
[Nevada Schedules and Approvals](#)[Historic Use Records \(Water Accounting Reports\)](#)

WATER USER	Use To Date CY2014	Forecast Use CY2014	Estimated Use CY2014	Excess to Estimated Use CY2014	Diversion To Date CY2014	Forecast Diversion CY2014	Approved Diversion CY2014	Excess To Approved Diversion CY2014
ROBERT B. GRIFFITH WATER PROJECT (SNWS)	115,046	454,184	473,360	-19,176	115,046	454,184	473,360	-19,176
LAKE MEAD NATIONAL RECREATION AREA, NV.	221	761	792	---	221	761	792	-31
BASIC MANAGEMENT INC.	2,401	7,778	8,208	---	2,401	7,778	8,208	-430
CITY OF HENDERSON (BMI DELIVERY)	3,941	16,502	15,878	---	3,941	16,502	15,878	624
CITY OF BOULDER CITY AT HOOVER DAM	0	0	0	---	0	0	0	0
NEVADA STATE DEPT. OF FISH & GAME	4	12	12	0	125	355	300	---
PACIFIC COAST BUILDING PRODUCTS INC.	326	953	928	---	326	953	928	25
BOULDER CANYON PROJECT	13	40	40	---	24	72	72	0
SOUTHERN CALIFORNIA EDISON	0	0	0	0	0	0	0	0
BIG BEND WATER DISTRICT	950	2,477	2,061	---	1,223	4,897	4,961	-64
BIG BEND CONSERVATION AREA	0	0			0	0		
FORT MOJAVE INDIAN TRIBE	643	3,390	3,685	---	961	5,500	5,500	0
LAS VEGAS WASH RETURN FLOWS	-72,038	-205,124	-204,964	---				
<b>TOTAL NEVADA</b>	<b>51,507</b>	<b>280,973</b>	<b>300,000</b>	<b>-19,027</b>	<b>124,268</b>	<b>491,002</b>	<b>509,999</b>	<b>-19,052</b>
SOUTHERN NEVADA WATER SYSTEM (SNWS)	43,008	249,060				454,184		
ALL OTHERS	8,499	31,913				36,818		
NEVADA USES ABOVE HOOVER	49,914	275,106				480,605		
NEVADA USES BELOW HOOVER	1,593	5,867				10,397		
<b>Tributary Conservation &amp; Imported Intentionally Created Surplus</b>								
Total Requested Tributary Conservation Intentionally Created Surplus		37,000						
Total Requested Imported Conservation Intentionally Created Su		9,000						
5% System Cut for Creation of Intentionally Created Surplus		-2,300						
Total Intentionally Created Surplus Left in Lake Mead		43,700						
<b>NEVADA ADJUSTED APPORTIONMENT CALCULATION</b>								
Nevada Basic Apportionment		300,000						
Excess to Total State Adjusted Apportionment		-19,027						

## NOTES:

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



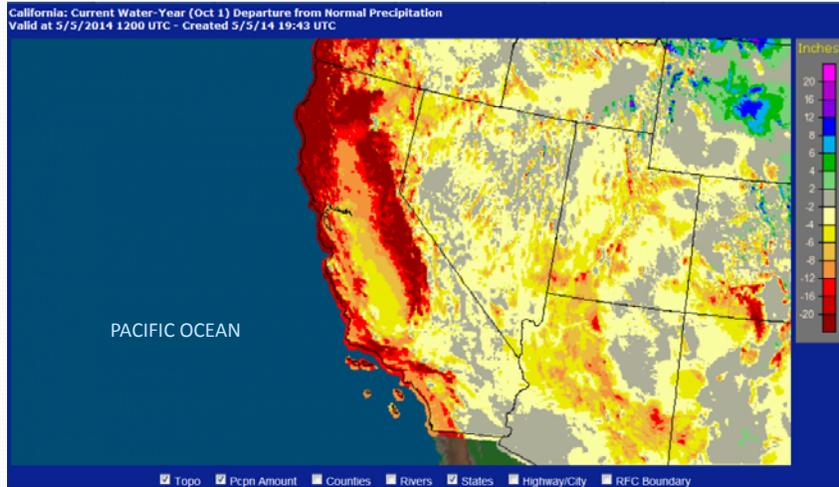


### Precipitation at Six Major Stations in Southern California

From October 1, 2013 to April 30, 2014

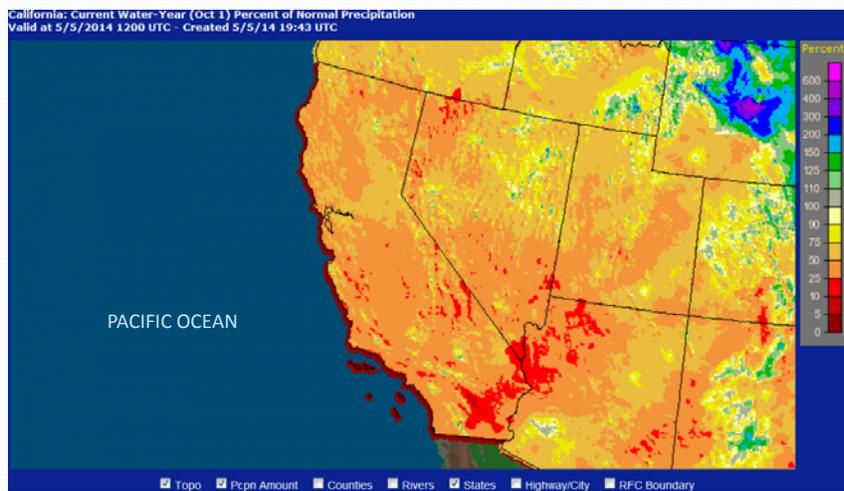
Station	Precipitation in inches		Average to Date	Percent of Average
	Apr	Oct 1 to Apr 30		
San Luis Obispo	0.66	5.36	21.57	25%
Santa Barbara	0.27	6.49	17.07	38%
Los Angeles	0.35	5.99	14.75	41%
San Diego	0.52	3.16	9.64	33%
Blythe	0.00	0.88	2.54	35%
Imperial	0.00	0.97	2.16	45%

## CA's Water Year: Departure From Normal



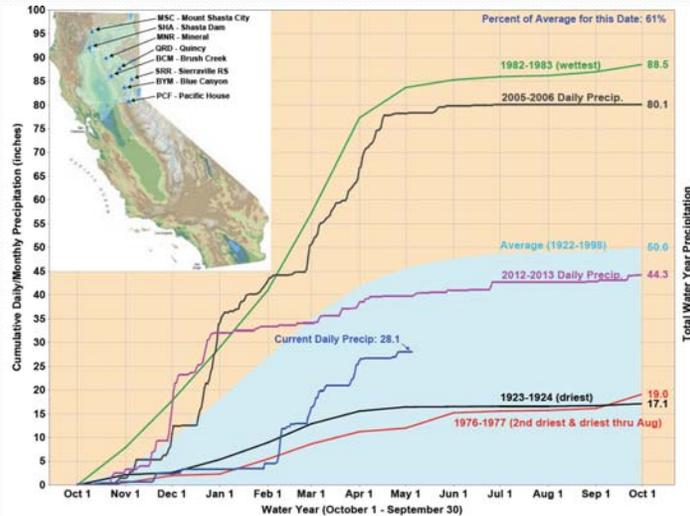
National Weather Service –Advance Hydrologic Prediction Center  
<http://water.weather.gov/precip/>

## CA Current Water Year - Percent of Normal Precipitation



National Weather Service –Advance Hydrologic Prediction Center  
<http://water.weather.gov/precip/>

## 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)

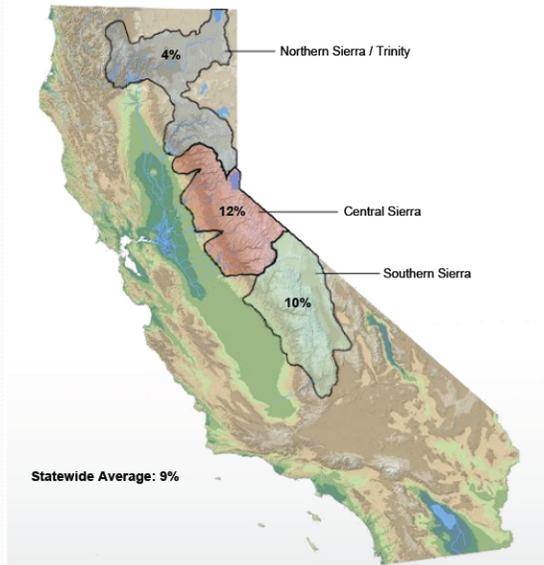
## Statewide Summary of Water-Year Data

Water Year	Precipitation (233 Stations) % of avg.	Runoff (31 Rivers) % of avg.	Res. Storage (155 Reservoirs) % of avg.	Sacto. Riv. Run-off * (MAF)
2009-10	110	90	105	15.9
2010-11	135	145	130	15.1
2011-12	75	60	95	11.8
2012-13	80	60	80	11.9
Comparison of Water Year Data as of April 1				
2012-13	75	70	95	8.2
2013-14	50	35	70	4.3

\* The Sacramento River Run-off is the sum of the unimpaired water year flow from the Sacramento River above Bend Bridge near Red Bluff, Feather River inflow to Oroville, Yuba River at Smartville, and American River inflow to Folsom. The average annual run-off is 18.4 MAF.

## Snow Water Content

Current Regional Snowpack from Automated Snow Sensors - % of April 1 Average



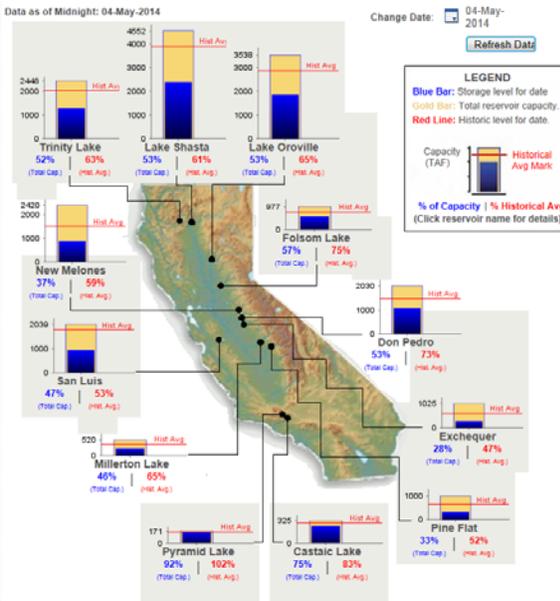
<http://cdec.water.ca.gov/cdecapp/snowapp/sweq.action>

## Comparison of SWP Water Storage

Reservoir	Capacity	2013 Storage (acre-feet)		2014 Storage (acre-feet)	
		As of May 1	% of Cap.	As of May 1	% of Cap.
Frenchman	55,475	38,703	70%	27,971	50%
Lake Davis	84,371	68,908	82%	56,002	66%
Antelope	22,564	22,844	101%	22,453	100%
Oroville	3,553,405	3,032,890	85%	1,875,548	53%
<b>TOTAL North</b>	<b>3,715,815</b>	<b>3,163,345</b>	<b>85%</b>	<b>1,981,974</b>	<b>53%</b>
Del Valle	39,914	39,519	99%	41,395	104%
San Luis (DWR)	1,062,180	429,207	40%	387,002	36%
Pyramid	169,901	166,031	98%	165,333	97%
Castaic	319,247	286,858	90%	248,445	78%
Silverwood	74,970	72,705	97%	72,465	97%
Perris	126,841	71,753	57%	62,774	49%
<b>TOTAL South</b>	<b>1,793,053</b>	<b>1,066,073</b>	<b>59%</b>	<b>977,414</b>	<b>55%</b>
<b>TOTAL SWP</b>	<b>5,508,868</b>	<b>4,229,418</b>	<b>77%</b>	<b>2,959,388</b>	<b>54%</b>

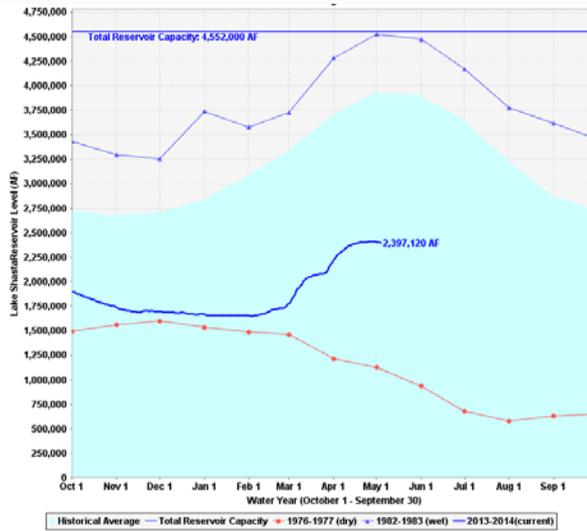
State Water Project Projected Deliveries:  
On April 18, 2014, the Table-A allocations for 2014 changed from 0 to 5%

## Current Reservoir Conditions



<http://cdec.water.ca.gov/cdecapp/resapp/getResGraphsMain.action>

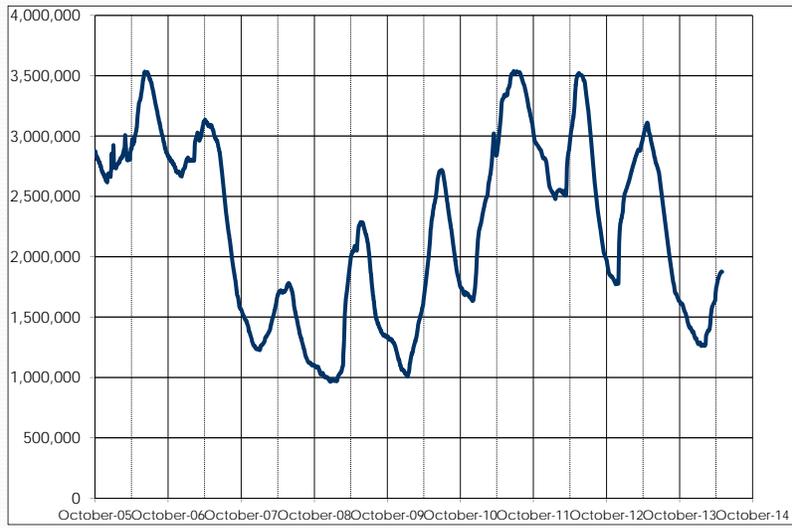
## Lake Shasta Storage Levels



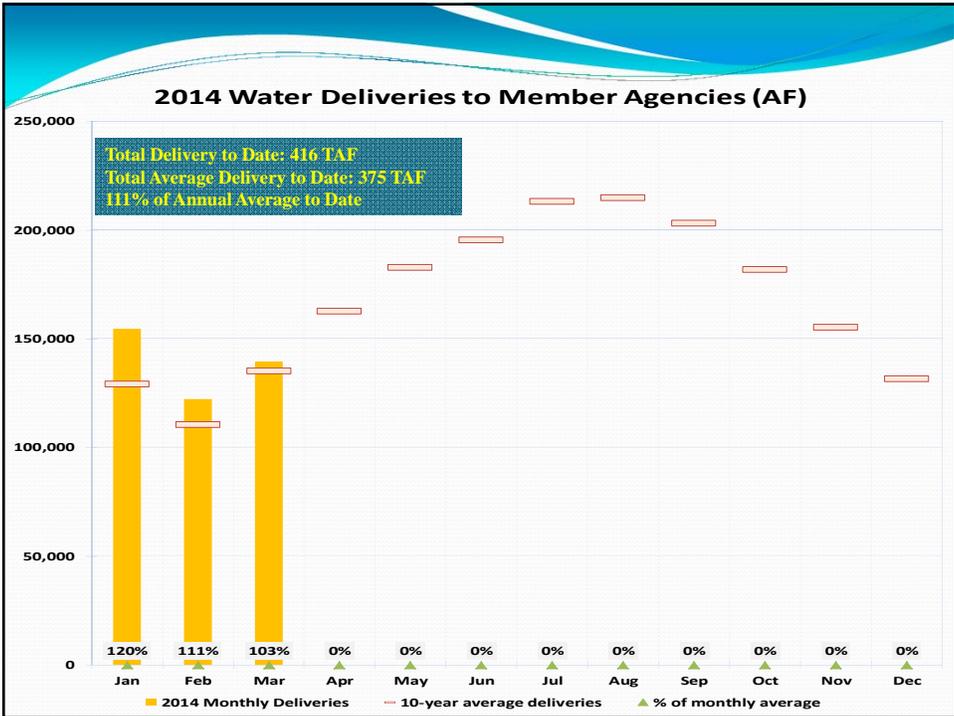
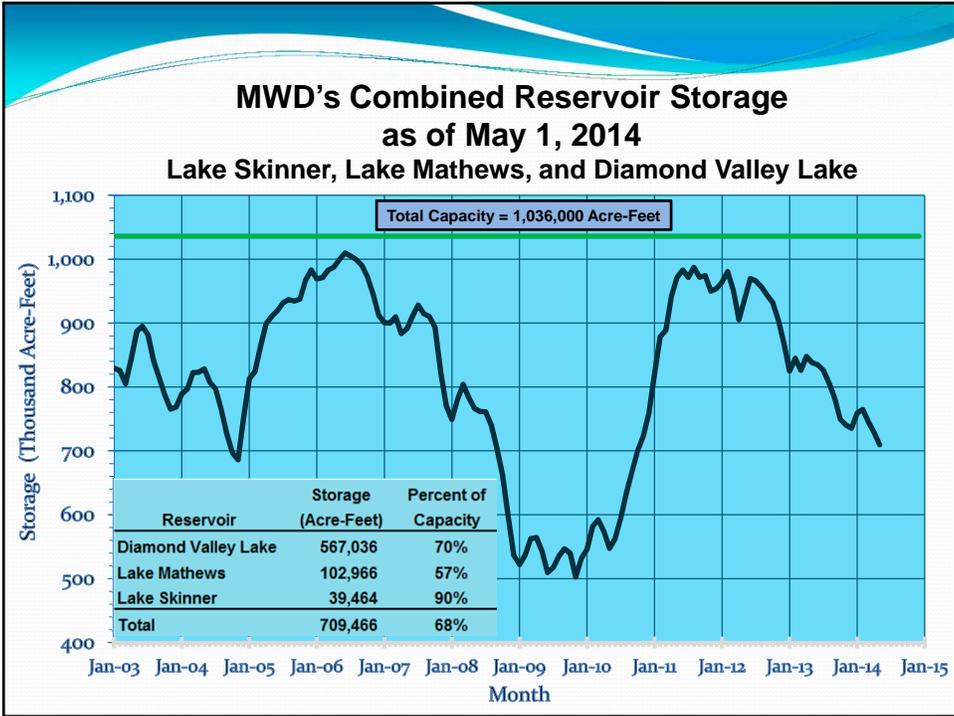
[http://cdec.water.ca.gov/reservoir\\_map.html](http://cdec.water.ca.gov/reservoir_map.html)

## Oroville Storage (acre-feet)

October 1, 2005 – May 1, 2014

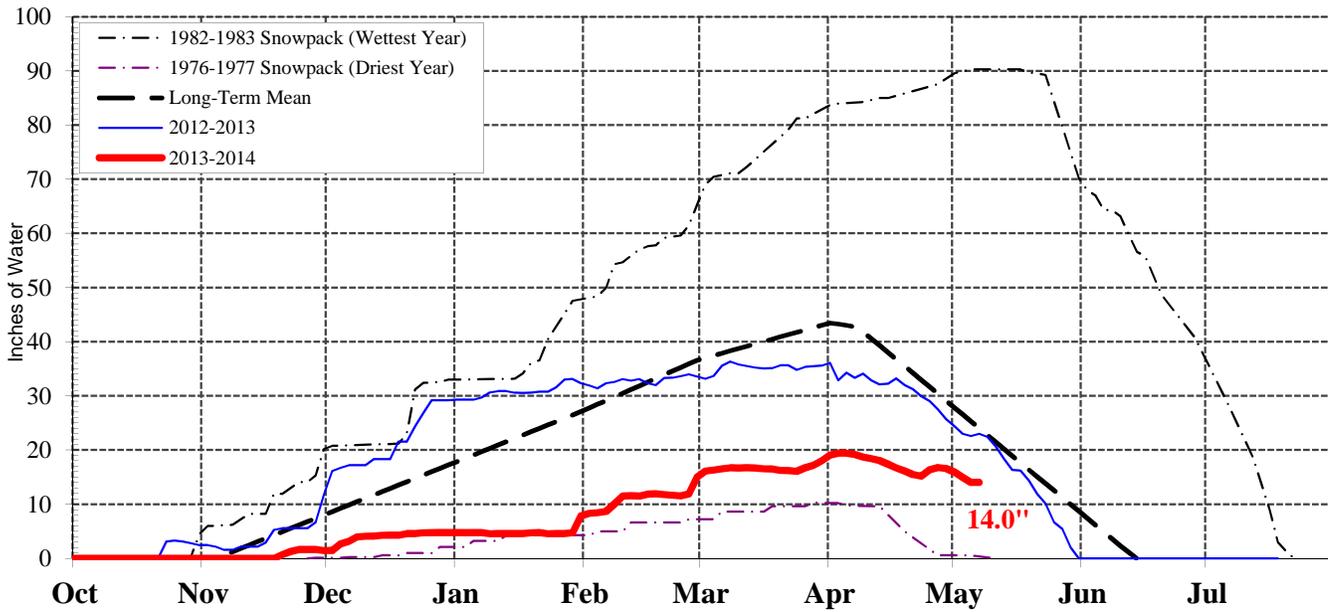




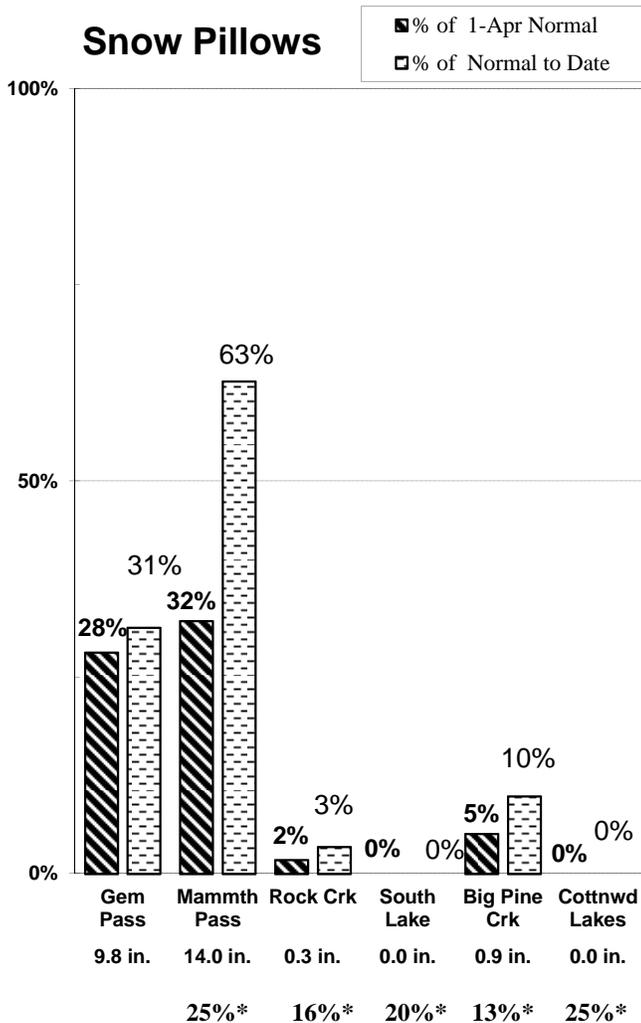


# EASTERN SIERRA CURRENT PRECIPITATION CONDITIONS May 7, 2014

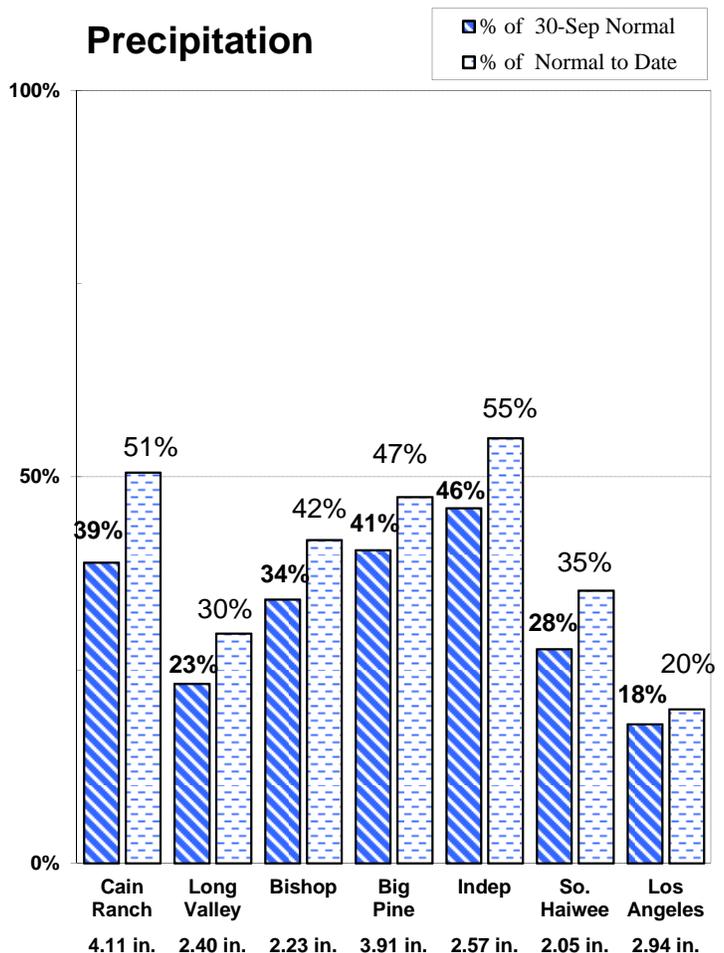
## Mammoth Pass Snowpack



## Snow Pillows



## Precipitation



\* Individual snow pillow represents an area that contributes this percent of the total Owens River Basin runoff.

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



# Executive Department

## State of California

### A PROCLAMATION OF A CONTINUED STATE OF EMERGENCY

**WHEREAS** on January 17, 2014, I proclaimed a State of Emergency to exist in the State of California due to severe drought conditions; and

**WHEREAS** state government has taken expedited actions as directed in that Proclamation to minimize harm from the drought; and

**WHEREAS** California's water supplies continue to be severely depleted despite a limited amount of rain and snowfall since January, with very limited snowpack in the Sierra Nevada mountains, decreased water levels in California's reservoirs, and reduced flows in the state's rivers; and

**WHEREAS** drought conditions have persisted for the last three years and the duration of this drought is unknown; and

**WHEREAS** the severe drought conditions continue to present urgent challenges: water shortages in communities across the state, greatly increased wildfire activity, diminished water for agricultural production, degraded habitat for many fish and wildlife species, threat of saltwater contamination of large fresh water supplies conveyed through the Sacramento-San Joaquin Bay Delta, and additional water scarcity if drought conditions continue into 2015; and

**WHEREAS** additional expedited actions are needed to reduce the harmful impacts from the drought as the state heads into several months of typically dry conditions; and

**WHEREAS** the magnitude of the severe drought conditions continues to present threats beyond the control of the services, personnel, equipment, and facilities of any single local government and require the combined forces of a mutual aid region or regions to combat; and

**WHEREAS** under the provisions of section 8558(b) of the Government Code, I find that conditions of extreme peril to the safety of persons and property continue to exist in California due to water shortage and drought conditions with which local authority is unable to cope; and

**WHEREAS** under the provisions of section 8571 of the Government Code, I find that strict compliance with the various statutes and regulations specified in this proclamation would prevent, hinder, or delay the mitigation of the effects of the drought.

**NOW, THEREFORE, I, EDMUND G. BROWN JR.**, Governor of the State of California, in accordance with the authority vested in me by the Constitution and statutes of the State of California, including the Emergency Services Act and in particular Government Code section 8567, do hereby issue this Executive Order, effective immediately, to mitigate the effects of the drought conditions upon the people and property within the State of California.

#### IT IS HEREBY ORDERED THAT:

1. The orders and provisions contained in Proclamation No. 1-17-2014, dated January 17, 2014, remain in full force and effect except as modified herein.
2. The Department of Water Resources and the State Water Resources Control Board (Water Board) will immediately and expeditiously process requests to move water to areas of need, including requests involving voluntary water transfers, forbearance agreements, water exchanges, or other means. If necessary, the Department will request that the Water Board consider changes to water right permits to enable such voluntary movements of water.

3. Recognizing the tremendous importance of conserving water during this drought, all California residents should refrain from wasting water:
  - a. Avoid using water to clean sidewalks, driveways, parking lots and other hardscapes.
  - b. Turn off fountains and other decorative water features unless recycled or grey water is available.
  - c. Limit vehicle washing at home by patronizing local carwashes that use recycled water.
  - d. Limit outdoor watering of lawns and landscaping to no more than two times a week.

Recreational facilities, such as city parks and golf courses, and large institutional complexes, such as schools, business parks and campuses, should immediately implement water reduction plans to reduce the use of potable water for outdoor irrigation.

Commercial establishments such as hotel and restaurants should take steps to reduce water usage and increase public awareness of the drought through measures such as offering drinking water only upon request and providing customers with options to avoid daily washing of towels or sheets.

Professional sports facilities, such as basketball arenas, football, soccer, and baseball stadiums, and hockey rinks should reduce water usage and increase public awareness of the drought by reducing the use of potable water for outdoor irrigation and encouraging conservation by spectators.

The Water Board shall direct urban water suppliers that are not already implementing drought response plans to limit outdoor irrigation and other wasteful water practices such as those identified in this Executive Order. The Water Board will request by June 15 an update from urban water agencies on their actions to reduce water usage and the effectiveness of these efforts. The Water Board is directed to adopt emergency regulations as it deems necessary, pursuant to Water Code section 1058.5, to implement this directive.

Californians can learn more about conserving water from the Save Our Water campaign ([SaveOurH2O.org](http://SaveOurH2O.org)).

4. Homeowners Associations (commonly known as HOAs) have reportedly fined or threatened to fine homeowners who comply with water conservation measures adopted by a public agency or private water company. To prevent this practice, pursuant to Government Code section 8567, I order that any provision of the governing document, architectural or landscaping guidelines, or policies of a common interest development will be void and unenforceable to the extent it has the effect of prohibiting compliance with the water-saving measures contained in this directive, or any conservation measure adopted by a public agency or private water company, any provision of Division 4, Part 5 (commencing with section 4000) of the Civil Code notwithstanding.
5. All state agencies that distribute funding for projects that impact water resources, including groundwater resources, will require recipients of future financial assistance to have appropriate conservation and efficiency programs in place.
6. The Department of Fish and Wildlife will immediately implement monitoring of winter-run Chinook salmon in the Sacramento River and its tributaries, as well as several runs of salmon and species of smelt in the Delta as described in the April 8, 2014 Drought Operations Plan.
7. The Department of Fish and Wildlife will implement projects that respond to drought conditions through habitat restoration and through water infrastructure projects on property owned or managed by the Department of Fish and Wildlife or the

Department of Water Resources for the benefit of fish and wildlife impacted by the drought.

8. The Department of Fish and Wildlife will work with other state and federal agencies and with landowners in priority watersheds to protect threatened and endangered species and species of special concern and maximize the beneficial uses of scarce water supplies, including employment of voluntary agreements to secure instream flows, relocation of members of those species, or through other measures.
9. The Department of Water Resources will expedite the consideration and, where appropriate, the implementation, of pump-back delivery of water through the State Water Project on behalf of water districts.
10. The Water Board will adopt statewide general waste discharge requirements to facilitate the use of treated wastewater that meets standards set by the Department of Public Health, in order to reduce demand on potable water supplies.
11. The Department of Water Resources will conduct intensive outreach and provide technical assistance to local agencies in order to increase groundwater monitoring in areas where the drought has significant impacts, and develop updated contour maps where new data becomes available in order to more accurately capture changing groundwater levels. The Department will provide a public update by November 30 that identifies groundwater basins with water shortages, details remaining gaps in groundwater monitoring, and updates its monitoring of land subsidence and agricultural land fallowing.
12. The California Department of Public Health, the Office of Emergency Services, and the Office of Planning and Research will assist local agencies that the Department of Public Health has identified as vulnerable to acute drinking water shortages in implementing solutions to those water shortages.
13. The Department of Water Resources and the Water Board, in coordination with other state agencies, will provide appropriate assistance to public agencies or private water companies in establishing temporary water supply connections to mitigate effects of the drought.
14. For the protection of health, safety, and the environment, CAL FIRE, the Office of Emergency Services, the Department of Water Resources, and the Department of Public Health, where appropriate, may enter into contracts and arrangements for the procurement of materials, goods, and services necessary to quickly mitigate the effects of the drought.
15. Pursuant to the drought legislation I signed into law on March 1, 2014, by July 1, 2014, the California Department of Food and Agriculture, in consultation with the Department of Water Resources and Water Board, will establish and implement a program to provide financial incentives to agricultural operations to invest in water irrigation treatment and distribution systems that reduce water and energy use, augment supply, and increase water and energy efficiency in agricultural applications.
16. To assist landowners meet their responsibilities for removing dead, dying and diseased trees and to help landowners clear other trees and plants close to structures that increase fire danger, certain noticing requirements are suspended for these activities. Specifically, the requirement that any person who conducts timber operations pursuant to the exemptions in Title California Code of Regulations sections 1038 (b) and (c) submit notices to CAL FIRE under the provisions of Title 14, California Code of Regulations, section 1038.2 is hereby suspended. Timber operations pursuant to sections 1038(b) and (c) may immediately commence operations upon submission of the required notice to CAL FIRE and without a copy of the Director's notice of acceptance at the operating site. All other provisions of these regulations will remain in effect.

17. The Water Board will adopt and implement emergency regulations pursuant to Water Code section 1058.5, as it deems necessary to prevent the waste, unreasonable use, unreasonable method of use, or unreasonable method of diversion of water, to promote water recycling or water conservation, and to require curtailment of diversions when water is not available under the diverter's priority of right.
18. In order to ensure that equipment and services necessary for drought response can be procured quickly, the provisions of the Government Code and the Public Contract Code applicable to state contracts, including, but not limited to, advertising and competitive bidding requirements, are hereby suspended for directives 7 and 14. Approval by the Department of Finance is required prior to the execution of any contract entered into pursuant to these directives.
19. For several actions called for in this proclamation, environmental review required by the California Environmental Quality Act is suspended to allow these actions to take place as quickly as possible. Specifically, for actions taken by state agencies pursuant to directives 2, 3, 6–10, 13, 15, and 17, for all actions taken pursuant to directive 12 when the Office of Planning and Research concurs that local action is required, and for all necessary permits needed to implement these respective actions, Division 13 (commencing with section 21000) of the Public Resources Code and regulations adopted pursuant to that Division are hereby suspended. The entities implementing these directives will maintain on their websites a list of the activities or approvals for which these provisions are suspended. This suspension and that provided in paragraph 9 of the January 17, 2014 Proclamation will expire on December 31, 2014, except that actions started prior to that date shall not be subject to Division 13 for the time required to complete them.
20. For several actions called for in this proclamation, certain regulatory requirements of the Water Code are suspended to allow these actions to take place as quickly as possible. Specifically, for actions taken pursuant to directive 2, section 13247 of the Water Code is suspended. The 30-day comment period provided in section 1726(f) of the Water Code is also suspended for actions taken pursuant to directive 2, but the Water Board will provide for a 15-day comment period. For actions taken by state agencies pursuant to directives 6 and 7, Chapter 3 of Part 3 (commencing with section 85225) of the Water Code is suspended. The entities implementing these directives will maintain on their websites a list of the activities or approvals for which these provisions are suspended.

**I FURTHER DIRECT** that as soon as hereafter possible, this Proclamation shall be filed in the Office of the Secretary of State and that widespread publicity and notice be given to this Proclamation.

**IN WITNESS WHEREOF** I have hereunto set my hand and caused the Great Seal of the State of California to be affixed this 25th day of April, 2014



*Edmund G. Brown Jr.*  
EDMUND G. BROWN JR.  
Governor of California

ATTEST:

*Debra Bowen*  
DEBRA BOWEN  
Secretary of State





## Weekly Drought Brief Monday May 5, 2014

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### CURRENT CONDITIONS

**Recent Precipitation:** Almost no precipitation fell from Monday, April 28 through Sunday, May 4:

- **Folsom:** 0.00" in the last week. 15.77" since July 1, **71%** of normal by this date.
- **Fresno:** 0.00" in the last week. 4.88" since July 1, **45%** of normal by this date.
- **Hetch Hetchy:** 0.00" in the last week. 19.57" since July 1, **56%** of normal by this date.
- **Los Angeles:** 0.00" in the last week. 5.83" since July 1, **40%** of normal by this date.
- **Modesto:** 0.00" in the last week. 6.99" since July 1, **56%** of normal by this date.
- **Oroville:** 0.00" in the last week. 19.16" since July 1, **64%** of normal this date.
- **Pollock Pines:** 0.12" in the last week. 27.40" since July 1, **54%** of normal by this date.
- **Redding:** 0.00" in the last week. 21.20" since July 1, **66%** of normal by this date.
- **Sacramento:** 0.00" in the last week. 10.25" since July 1, **51%** of normal by this date.
- **Shasta:** 0.00" in the last week. 34.16" since July 1, **56%** of normal by this date.
- **Willits:** 0.00" in the last week. 34.32" since July 1, **71%** of normal by this date.

\*\* As this rainy season comes to an end, it is highly unlikely that precipitation totals will increase significantly over the coming months.\*\*

**Near-term Outlook for Precipitation:** Warmer weather will continue across the state this week with little to no expected precipitation.

**Snow survey:** The final manual [snowpack survey](#) of the season was conducted on Thursday (May 1) and showed California snowpack at 18% of normal. A slightly more [recent update](#) using automated devices shows snowpack at 17% of normal as of May 2.

**Reservoir Levels (% capacity):** [Reservoir Levels](#) as of May 3 remain low, including: Don Pedro 53%; Exchequer 28%; Folsom Lake 57%; Lake Oroville 53%; Millerton Lake 45%; New Melones 38%; Pine Flat 32%; San Luis 47%; Shasta 53%; and Trinity Lake 52%. An update of water levels at [other smaller reservoirs](#) is also available.

**Vulnerable Water Systems:** The California Department of Public Health is providing technical and funding assistance to help several communities facing near-term drinking water shortages and is monitoring water systems across the state to determine where else it can provide support. Updated information can be found at the [CDPH Drinking Water Program](#) website.

**Fire Danger:** 1,244 fires have been reported in CALFIRE's responsibility area since January 1, burning 2,685 acres. The number of wildfires this year is well above the year-to-date average of 599 fires, while the total acreage burned is somewhat below the year-to-date average of 3,911 acres. 136 new wildfires were reported over the past week. CALFIRE has accelerated staffing-up fire stations across the state this winter and spring, in most areas one to two months earlier than normal. This increased staffing has enabled many wildfires to be extinguished before spreading into larger fires.

## KEY ACTION ITEMS FROM LAST WEEK

- **Groundwater report shows decreased underground water supplies:** The Department of Water Resources last week released a [status report on groundwater supplies](#) throughout the state amidst the drought. The report documents shrinking groundwater supplies and details that in some places, groundwater levels have fallen more than 100 feet below previous recorded lows. DWR will produce another report in November that tracks groundwater supplies as the drought persists and will increase outreach to improve groundwater monitoring. Groundwater accounts for up to 60% of California's water supply during drought periods.
- **Conservation billboards launched throughout the state:** The state's [Save Our Water](#) campaign last week launched [a statewide outdoor media campaign](#) to raise awareness of the drought and convey to all residents the need to conserve water. This 'Californians Don't Waste' will soon feature radio advertisements and other media outreach. Governor Brown recently commemorated May as "[Save Our Water month](#)."
- **Input collected from Fresno community groups:** California Volunteers—state government's philanthropic and volunteer outreach arm—and the California Endowment held a large meeting and resource fair on Friday (May 2) in Fresno with several dozen community groups. The meeting was the second of several with community groups that are supporting drought-impacted residents. These conversations identify emerging needs that may be appropriate for foundations and the private sector to help support.
- **California annual Wildfire Awareness Week kicks off:** CALFIRE kicks-off "[Wildfire Awareness Week](#)" today (Monday, May 5) to build public awareness of the dangers of wildfires how these risks can be reduced. Governor Brown and other state leaders will highlight this week-long public awareness effort in Sacramento on Monday.
- **Feedback sought on recent water operations:** The State Water Board will hold [a workshop](#) on Tuesday, May 6 to discuss actions that the Water Board has taken since February to provide flexibility to DWR and the Bureau of Reclamation in their water operations. These changes have been approved through modifications to Temporary Urgency Change Petitions, and are [described in greater detail](#) on drought.ca.gov.
- **Water infrastructure financing fairs:** The State Water Board, along with six partner agencies, will host the first [California Financing Coordinating Committee Funding Fair](#) on May 28 in Sacramento. It will offer local governments an opportunity to learn about water infrastructure funding and financing that is current available for local water projects. This will be the [first of seven funding fairs](#) that will be held throughout the state in the coming months.
- **California Realtors promote conservation:** The California Association of Realtors has created [explanatory materials](#) and recently updated their [website](#) to make homeowners aware of new legal requirements to upgrade water fixtures during home renovations and to encourage homeowners to take voluntary conservation actions. Efforts by non-governmental groups such as the Realtors are important to achieve water conservation across the state.
- **Cost Data:** Cal OES continues to gather drought-related costs from state agencies and local governments, which is reported weekly to the Drought Taskforce.

- **Governor's Drought Task Force:** The Taskforce continues to meet daily to take actions that conserve water and coordinate state response to the drought.

## Local Government

- **Local Emergency Proclamations:** A total of 41 local Emergency Proclamations have been received to date from city, county, and tribal governments, as well as special districts:
  - **Counties:** Glenn, Inyo, Kern, Kings, Lake, Madera, Mendocino, Merced, Modoc, Santa Barbara, San Luis Obispo, San Joaquin, Siskiyou, Sonoma, Sutter, Tulare, Tuolumne, Yuba
  - **Cities:** Brooktrails Township-Mendocino County, City of Willits-Mendocino County, City of St. Helena-Napa County, City of Calistoga-Napa County, City of American Canyon-Napa County, City of Santa Barbara-Santa Barbara County, City of Montague-Siskiyou County
  - **Tribes:** Hoopa Valley Tribe in Humboldt County, Yurok Tribe in Del Norte County, Tule River Indian Tribe in Tulare County, Karuk Tribe in Siskiyou/Humboldt Counties, Sherwood Valley Pomo Indian Tribe, Yocha Dehe Wintun Nation.
  - **Special Districts:** Lake Don Pedro Community Services District, Placer County Water Agency (PCWA), Twain Harte Community Services District, Carpinteria Valley Water District, Sonoma County Water Agency, Meiners Oaks Water District, Mariposa Public Utility District, Montecito Water District, Goleta Water District, Tuolumne Utilities District.
- **Water Agency Conservation Efforts:** The Association of California Water Agencies [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 25 counties have established drought task forces to coordinate local drought response. These counties include: Butte, Kern, Madera, Mendocino, Merced, Modoc, Monterey, Nevada, Orange, Placer, Plumas, Sacramento, San Joaquin, San Luis Obispo, San Mateo, Santa Barbara, Santa Clara, Siskiyou, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, and Yolo.

### **DROUGHT RELATED WEBSITES FOR MORE INFORMATION**

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

Governor's [Proclamation of Drought Emergency](#)

State's Water Conservation Campaign, [Save our Water](#)

Local Government [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](#)

California Department of Public Health, Drinking Water [CDPH Drinking Water Program](#)

California State Water Project, [Information](#)

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

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

Small Business Administration Disaster Support: [www.sba.gov/disaster](http://www.sba.gov/disaster)



An experimental pulse flow of water moves through the Colorado River in northern Mexico in April 2014.  
NASA's Earth Observatory



[download](#) large image (610 KB, JPEG, 1440x960) Landsat 8

acquired April 16, 2014



[download](#) large image (636 KB, JPEG, 1440x960) Landsat 8

acquired April 29, 2013



**RESOLUTION**  
 of the  
**COLORADO RIVER BOARD OF CALIFORNIA**  
 Regarding  
 Potential Applicants to Receive  
 Lower Colorado Water Supply Project Water  
 2014-1

**WHEREAS**, the United States Congress, on November 14, 1986, enacted the Lower Colorado Water Supply Act (P.L.99-655) (amended through P.L. 109-103), to authorize the construction and operation of the Lower Colorado 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 May 14, 2014, submitted a list of additional eligible applicants 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 those applicants listed on the attachment and directs the Executive Director to forward the applications to Reclamation with its recommendation with the following provisos:

- (1) These applicants appear 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 (AF/YR)
Imperial	2	30	0	30
Riverside	0	0	0	0
San Bernardino	5	6	12	18
Total	7	36	12	48

- (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.

Unanimously adopted on May 14, 2014.

**THE FOREGOING RESOLUTION** is approved and adopted by the Colorado River Board, this 14<sup>th</sup> day of May 2014.

---

Dana B. Fisher, Jr., Chairman

Exhibit

May 14, 2014, Lower Colorado Water Supply Project

14-May-14

County	APN	Owner	Current	Future	Subtotal
			AF/YR	AF/YR	AF/YR
Imperial	056 210 58 10	MFT Holding LLC *	15	0	15
	056 210 62 10	MFT Holding LLC *	15	0	15
	Total		30	0	30

14-May-14

County	APN	Owner	Current	Future	Subtotal
			AF/YR	AF/YR	AF/YR
San Bernardino	0659 201 03 0000	Diamond BE, LLC *	1	7	8
	0660 151 30 0000	Kocaya Family Trust & Gurrola, Daniel R. *	1	1	2
	0660 201 07 0000	Andrei, Robert & Dawn	2	2	4
	0660 215 83 0000	The Chivens Family Trust UTD1/31/2000	1	1	2
	0660 261 35 0000	McGowan, Robert Louis & Christine Marie	1	1	2
	Total		6	12	18

NOTE: \* designates the owner is seeking to increase the previously approved entitlement amount.





# 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-4211  
PRJ-23.00

APR 07 2014

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

Subject: Revised Schedule of Calendar Year (CY) 2014 Colorado River Water Deliveries to Mexico

Dear Principal Engineer Peña:

The Bureau of Reclamation received your letter dated February 4, 2014, informing us of Mexico's requested modification to the Colorado River monthly delivery schedule for CY 2014. The requested modification on behalf of the National Water Commission (CONAGUA) consists of an additional 5,356.80 cubic meters (4,343 acre-feet) in March with a reduction of the same amount in August. The requested modification does not change the total delivery of Colorado River water to Mexico, which remains at 1,850,234 cubic meters (1.5 million acre-feet).

Reclamation confirms its ability to execute the requested deliveries according to the schedule provided by your office, which shows deliveries at the Northerly International Boundary and deliveries at the Southerly Land Boundary. These deliveries of Colorado River water to Mexico during CY 2014 are in accordance with Article 15 of the Treaty between the United States of America and Mexico, Utilization of Waters of the Colorado and Tijuana Rivers and of the Rio Grande, dated February 3, 1944, and Minute Nos. 242 and 319 of the International Boundary and Water Commission. The enclosed schedule shows the monthly deliveries provided by your office converted to acre-feet for use in our forecast.

We also note that, by our letter dated February 18, 2014, Commissioner Drusina notified Reclamation that the "Proposed Delivery Plan for Environmental Flows to the Colorado River Riparian Corridor Pursuant to Minute No. 319" (Delivery Plan) was approved by him and Commissioner Salmon. By our letter dated January 30, 2014, Commissioner Connor agreed to implement the Delivery Plan and committed to work with Mexico to ensure its successful implementation. The deliveries to meet Mexico's revised water schedule and the flows outlined in the Delivery Plan will require close coordination on a daily basis between all parties to ensure such deliveries remain within operational capabilities.

As in previous years, Reclamation will continue to advise your office regarding Colorado River operations as they proceed. We appreciate your cooperation and assistance in planning river operations and in dealing with other issues associated with management of the Colorado River.

If you have questions regarding Reclamation's ability to execute the requested deliveries, please contact Mr. Paul Matuska, Water Accounting and Verification Group Manager, at 702-293-8164 or pmataska@usbr.gov.

Sincerely,



Terrance J. Fulp, Ph.D.  
Regional Director

Enclosure

cc: Honorable Edward Drusina  
Commissioner  
U.S. Section, IBWC  
The Commons, Building C, Suite 306  
4171 North Mesa Street  
El Paso, TX 79902

Mr. Mike Lacey  
Acting Director  
Arizona Department  
of Water Resources  
3550 North Central Avenue  
Phoenix, AZ 85012

Scott A. Verhines, P.E.  
Office of the State Engineer  
State of New Mexico  
P.O. Box 25102  
Santa Fe, NM 87504

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

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

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

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

Mr. Dennis Strong  
Director  
Utah Division of Water Resources  
P.O. Box 146201  
Salt Lake City, UT 84114

Continued on next page.

cc: Continued from previous page.

Mr. Don A. Ostler  
Executive Director  
Upper Colorado River Commission  
355 South 400 East  
Salt Lake City, UT 84111  
(w/encl to ea)

Ms. Anna Morales  
Area Operations Manager  
Yuma Office, IBWC  
1940 South Third Avenue, Suite A  
Yuma, AZ 85364

**CY2014 COLORADO RIVER WATER DELIVERIES FOR MEXICO**

Schedule date January 31, 2014

Month (1)	Colorado River at Morelos Dam (NIB)		Land Boundary near San Luis, SA		Total Delivery To Mexico (Sum of columns 2 and 3)		Mexico's Requested Deferred Delivery Adjustment in Accordance With Minute No. 319 Section III, 1		TOTAL DELIVERY PLUS DEFERRED DELIVERY ADJUSTMENT	
	Acre-Feet	KCM	Acre-Feet	KCM	Acre-Feet	KCM	Acre-Feet	KCM	Acre-Feet	KCM
	(2)		(3)		(4)		(5)		(6)	
JAN	148,881	183,643.40	11,943	14,731	160,824	198,374.40	0	0.00	160,824	198,374
FEB	192,908	237,949.70	11,943	14,731	204,851	252,680.70	0	0.00	204,851	252,681
MAR	107,741	125,495.80	11,943	14,731	119,684	137,226.80	0	0.00	119,684	137,227
APR	99,428	122,645.00	11,943	14,731	111,371	137,376.00	0	0.00	111,371	137,376
MAY	107,741	125,495.80	11,943	14,731	119,684	137,226.80	0	0.00	119,684	137,227
JUN	88,327	108,950.40	11,557	14,256	99,884	123,206.40	0	0.00	99,884	123,206
JUL	78,135	96,379.00	11,557	14,256	89,692	110,635.00	0	0.00	89,692	110,635
AUG <sup>1</sup>	44,934	55,425.20	10,437	12,874	55,371	68,299.20	0	0.00	55,371	68,299
SEP	91,109	117,524.00	11,557	14,256	102,666	127,008.00	0	0.00	102,666	127,008
OCT	95,714	118,061.70	11,889	14,666	107,603	132,727.70	0	0.00	107,603	132,728
NOV	1,360,558	1,678,234.00	139,442	172,000	1,500,000	1,850,234	0	0.00	1,500,000	1,850,234.00
DEC										
TOTAL										

1/ Revised schedule dated January 31, 2014 transmitted via email dated January 31, 2014. Schedule formally transmitted via letter dated February 4, 2014.



# 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-4220  
WTR-4.03

APR 07 2014

CERTIFIED - RETURN RECEIPT REQUESTED

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

Subject: Verification of Calendar Year (CY) 2012 Extraordinary Conservation (EC)  
Intentionally Created Surplus (ICS) Created by the Metropolitan Water District of  
Southern California (MWD)

Dear Mr. Patterson:

By letter dated July 12, 2013, MWD submitted its *Metropolitan Funded Palo Verde Irrigation District Forbearance and Fallowing Program, Imperial Irrigation District Water Conservation Program, and Water Supply from Desalination Intentionally Created Surplus Certification Report Calendar Year 2012* (Certification Report), in accordance with Section 3.D.1 of the Colorado River Interim Guidelines for Lower Basin Shortages and Coordinated Operations for Lake Powell and Lake Mead (Interim Guidelines). In response to the Bureau of Reclamation's initial review, MWD submitted revisions to the Certification Report by email dated February 27, 2014. In accordance with Section 3.D.2 of the Interim Guidelines, this letter provides MWD with notice of my determination regarding the amount of ICS created by MWD in CY 2012.

As documented in MWD's Certification Report, MWD indicates that in 2012:

1. 73,662 acre-feet (af) of water was conserved through the Metropolitan Funded Palo Verde Irrigation District Forbearance and Fallowing Program, all of which was available to MWD to create EC ICS;
2. 104,140 af of water was conserved through the Metropolitan Funded Imperial Irrigation District Water Conservation Program, of which 10,463 af was used by the Coachella Valley Water District, and 93,677 af was available to MWD to create EC ICS; and
3. 35,127 af of water was conserved through the Metropolitan Funded Water Supply from Desalination, of which 22,789 af was consumptively used by member agencies in MWD's service area, and 12,338 af was available to MWD to create EC ICS.

In total, the conservation yields of these three projects resulted in 179,677 af of conserved water made available to MWD for the creation of EC ICS, prior to the one-time deduction of 5 percent specified in Section 3.B.2 of the Interim Guidelines for the benefit of additional system storage in Lake Mead.

In accordance with Section 3.D.2 of the Interim Guidelines, Reclamation has reviewed the information contained in MWD's ICS Certification Report. Reclamation confirms that the information adequately demonstrates the amounts of ICS created and that the methods of creation were consistent with MWD's approved 2012 ICS Plan of Creation, Exhibits G, H, and M of the Lower Colorado River Basin Intentionally Created Surplus Forbearance Agreement, and the Delivery Agreement (Contract No. 07-XX-30-W0519) between the United States and MWD. Therefore, I verify and make the final determination that MWD created 179,677 af of ICS during CY 2012, prior to accounting for the one-time deduction of 5 percent for the benefit of additional system storage.

If you have questions, please contact Mr. Paul J. 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. Michael J. Lacey  
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



April 15, 2014

Dr. Terry Fulp, Regional Director  
U.S. Department of the Interior  
Bureau of Reclamation  
Lower Colorado River Region  
P.O. Box 61470  
Boulder City, Nevada 89006

Dear Dr. Fulp:

The Central Arizona Project, acting in its capacity as the Central Arizona Groundwater Replenishment District (CAGRDR), entered into a Pilot Fallowing and Forbearance Agreement ("Pilot Agreement") with the Yuma Mesa Irrigation and Drainage District (YMIDD) on September 5, 2013. CAP has committed not to divert water conserved under the Pilot Agreement, currently estimated to be 9,000 acre-feet in 2014. On February 11, 2014, CAP amended its 2014 diversion schedule to reflect that commitment.

For 2014, YMIDD land owners have enrolled 1,421 acres under the Pilot Agreement and YMIDD will forbear diversion of the Colorado River water that would have been used to irrigate those lands. CAGRDR is working with your staff, YMIDD, and the Arizona Department of Water Resources to implement the Pilot Agreement fallowing program, including quantifying and verifying water savings from fallowing as well as providing appropriate accounting and reporting of the results from the pilot program. We will continue to coordinate with you throughout the year as we refine the estimate of water conserved through the Pilot Agreement and adjust CAP diversions accordingly. We expect the results of this year's fallowing program to be available in March 2015 for inclusion in Reclamation's Colorado River Water Use and Accounting Report for 2014.

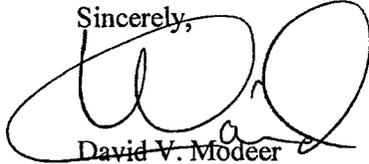
The water conserved pursuant to the Pilot Agreement will become unused Arizona apportionment. CAP is not claiming Intentionally Created Surplus credit for this water. Rather, it is our intent that the conserved water remain in storage in Lake Mead to benefit the Colorado River system. To that end, CAP requests that you, on behalf of the Secretary of the Interior, not make the conserved water available to other water users pursuant to Article II(B)(6) of the decree in *Arizona v. California*.

It is imperative that the Secretary support conservation programs such as the Pilot Agreement as we all work together to improve the near-term reliability and long-term resilience of the Colorado River system.

Dr. Terry Fulp  
April 15, 2014  
Page Two

Please contact me with questions or concerns.

Sincerely,

A handwritten signature in black ink, appearing to read 'D. Modeer', written over a large, stylized circular flourish.

David V. Modeer  
General Manager

cc: Mike Lacey, Director – Arizona Department of Water Resources  
Tanya M. Trujillo, Executive Director – Colorado River Board of California  
Jayne Harkins, Executive Director – Colorado River Commission of Nevada  
John Entsminger, General Manager – Southern Nevada Water Authority  
Tom McCann, Assistant General Manager – Central Arizona Project  
William Hasencamp, Executive Program Manager, Colorado River Resources – Metropolitan Water  
District of Southern California  
Greg Walch, General Counsel – Southern Nevada Water Authority