

COLORADO RIVER BOARD OF CALIFORNIA

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November 2, 2012

**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, the Acting Executive Director of the Colorado River Board of California, that a regular meeting of the Board Members is to be held as follows:

Date: November 14, 2012, Wednesday
Time: 10:00 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: 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.

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

A handwritten signature in black ink that reads "Tanya Trujillo".

Tanya M. Trujillo
Executive Director

attachment: Agenda

Regular Meeting
COLORADO RIVER BOARD OF CALIFORNIA
November 14, 2012, Wednesday
10:00 a.m.

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

A G E N D A

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. Minutes of the Meeting Held October 10, 2012,
Consideration and Approval (**Action**) TAB 1
 - b. Proposed 2013 Colorado River Board Meeting Schedule TAB 2
4. Protection of Existing Rights
 - a. Colorado River Water Report TAB 3
Report on current reservoir storage, reservoir releases, projected water use,
forecasted river flows, scheduled deliveries to Mexico, and salinity
 - b. State and Local Water Reports TAB 4
Reports on current water supply and use conditions
 - c. Colorado River Operations TAB 5
 - Revised Schedule of Calendar-Year 2012 Water Deliveries to Mexico
 - Status of Reclamation’s Inadvertent Overrun and Payback Policy and Procedures
 - U.S. Bureau of Reclamation Water Smart Funding Opportunities
 - d. Colorado River Environmental and Water Quality Issues
 - Glen Canyon Dam Proposed High Flow Experiment, November 18-25, 2012
 - Status of Lower Colorado River Multi-Species Conservation Program
 - Colorado River Basin Salinity Control Forum and Advisory Council Meetings, November 7-9, 2012, Phoenix, Arizona
 - Update on the Moab Uranium Mill-tailings Removal Project

Agenda (continued)

- e. Basin States Discussions TAB 6
 - Status of the Colorado River Basin Water Supply and Demand Study Report
 - Status of U.S./Mexico Binational Discussions
 - Resolution Relating to U.S./Mexico Binational Discussions (**Action**)
 - Authorization for the Chairman to Execute a Memorandum of Agreement Regarding the Implementation of Minute 319 to the 1944 U.S.-Mexico Water Treaty (**Action**)

5. Executive Session

An Executive Session will be held by the Board pursuant to provisions of Article 9 (commencing with Section 11120) of Chapter 1 of Part 1 of Division 3 of Title 2 of the Government Code and Sections 12516 and 12519 of the Water Code to discuss matters in Agenda item 4e 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.

6. Other Business

- a. Next Board Meeting: Special Meeting in conjunction with 2012 Colorado River Water Users Association (CRWUA) 67th Annual Conference . TAB 7

December 12, 2012, Wednesday, starting 3:00 p.m.
Caesars Palace Hotel
3570 Las Vegas Boulevard, South
Las Vegas, NV 89109-8924
TEL: (702) 731-7222, FAX: (702) 731-7172
Hotel Reservation: 1-866-227-5944,
Mention the CRWUA Conference Code of SCCRW2
for a special CRWUA group rate by November 12, 2012

CRWUA Annual Conference Registration:
<http://www.cvent.com/events/2012-crwua-annual-conference/custom-18-1142c7fabcf4ab6ae8662e53e3b059a.aspx>

3.a. - Approval October 10, 2012, Board Meeting Minutes

Minutes of Regular Meeting
COLORADO RIVER BOARD OF CALIFORNIA
Wednesday, October 10, 2012

A Regular Meeting of the Colorado River Board of California (Board) was held in the Vineyard Room, at the Holiday Inn Ontario Airport, at 2155 E. Convention Center Way, Ontario, California, Wednesday, October 10, 2012.

Board Members and Alternates Present

W. D. 'Bill' Knutson, Vice Chairman
Henry Merle Kuiper
James B. McDaniel
John Palmer Powell, Jr.

Jack Seiler
Bill D. Wright

Board Members and Alternate Absent

Dana B. Fisher, Jr. Chairman
John V. Foley
Terese Maria Ghio
James Cleo Hanks
John Pierre Menvielle

Christopher G. Hayes, Designee
Department of Fish and Game

Jeanine Jones, Designee
Department of Water Resources

Others Present

Steven B. Abbott
Autumn Ashurst
James M. Barrett
James H. Bond
John P. Carter
J.C. Jay Chen
Dave Fogerson
Leslie M. Gallagher
Christopher S. Harris
William J. Hasencamp
Kevin E. Kelley
Lindia Y. Liu
Jan P. Matusak

Glen D. Peterson
David R. Pettijohn
Halla Razak
Tom J. Ryan
Tina L. A. Shields
Ed W. Smith
Joanna Smith
Gary E. Tavetian
Tanya M. Trujillo
Joseph A. Vanderhost
Mark Van Vlack
Fred A. Worthley
Gerald R. Zimmerman

CALL TO ORDER

Vice Chairman Knutson announced the presence of a quorum, called the meeting to order at 10:08 a.m.

OPPORTUNITY FOR THE PUBLIC TO ADDRESS THE BOARD

Vice Chairman Knutson asked if there was anyone in the audience who wanted to address the Board on items on the agenda or matters related to the Board. Hearing none, Vice Chairman Knutson moved to the next agenda item.

ADMINISTRATION

Approval of Minutes

Vice Chairman Knutson requested the approval of the August 15th meeting minutes. Mr. Powell moved the August 15th minutes be approved. Mr. Kuiper seconded the motion. Unanimously carried, the Board approved the August 15th meeting minutes.

Vice Chairman Knutson requested the approval of the September 4th teleconference Special Meeting minutes. Mr. Kuiper moved the September 14th teleconference minutes be approved. Mr. Powell seconded the motion. Unanimously carried, the Board approved the September 4th teleconference Special Meeting minutes.

Resolution in Memory of Mr. Steve Robbins

Vice Chairman Knutson reported that a resolution was prepared in memory of Mr. Steve Robbins for his many years of service and extensive contributions to the Board, California, and the Colorado River Basin. Mr. Powell moved the resolution be adopted. Mr. Jack Seiler seconded the motion. Unanimously carried, the Board approved the resolution in memory of Mr. Steve Robbins. Vice Chairman Knutson reported that a celebration of Mr. Steve Robbins' life was scheduled for Saturday, October 13th at 5p.m., at the Palm Springs Air Museum.

Appreciation of Mr. Harris

Vice Chairman Knutson reported his appreciation for the excellent service Mr. Christopher S. Harris has provided to the Board as Acting Executive Director over the past two years. He's done an excellent job of keeping the Board members informed, running the Board meetings, and representing California on Colorado River issues. The Board applauded Mr. Harris.

AGENCY MANAGERS' MEETING

Mr. Harris reported that the Agency Managers, including senior staff, are scheduled to meet following the Colorado River Authority meeting to formally meet the new Executive

Director, Ms. Tanya M. Trujillo, and discuss upcoming meetings with the Basin States, in Las Vegas, Nevada, on October 15, and with Reclamation, also in Las Vegas on October 19th.

PROTECTION OF EXISTING RIGHTS

Colorado River Water Report

Mr. Harris reported that from October 1, 2011 to September 17, 2012, precipitation was 73 percent of normal, and that there was no snowpack water equivalent reported at this time. The forecasted April through July inflow into Lake Powell for Water Year 2012, as of September 17th, was 2.06 maf, or 29 percent of normal. The projected 2012 Water Year unregulated inflow into Lake Powell was about 4.91 maf, or about 45 percent of normal.

Mr. Harris reported that as of September 30th, the reservoir storage in Lake Powell was 13.93 million acre-feet (maf), or 57 percent of capacity. The water surface elevation was 3,621.6 feet. The storage in Lake Mead was 13.14 maf, or 51 percent of capacity. The water surface elevation was 1,115.2 feet. Total System storage was 34.02 maf, or 56 percent of capacity. Last year at this time, there was 38.68 maf of water in storage, or 65 percent of capacity. Total System storage is now 4.6 maf less than the storage at this time last year.

Mr. Harris reported that Reclamation's estimated consumptive use (CU) for the State of Nevada is under its basic entitlement of 300,000 acre-feet (i.e. 258,000 acre-feet); and for Arizona, the CU is projected to be slightly under its basic entitlement of 2.8 maf (i.e. 2.780 maf); and for California the CU is also projected to be just over its apportionment of 4.4 maf (i.e. 4.41 maf). For the year, the total projected CU in the Lower Basin is expected to be about 7.448 maf.

State and Local Water Reports

Mr. Harris reported on the current precipitation conditions in California. Statewide precipitation was about 75 percent of average and the runoff was about 60 percent of average, but reservoir storage was about 95 percent of average for this time of year. The Sacramento River Index was 11.8 maf. In southern California, precipitation was about 50 percent of average, except in Blythe where the precipitation was 97 percent of average or about 3.69 inches.

Mr. Harris reported that the storage condition for the State Water Project (SWP), as of September 30th, was about 56 percent of capacity. Storage in Lake Oroville was about 1.98 maf, or 56 percent of capacity. Storage south of the Delta was about 1.0 maf, or 56 percent of capacity. Total storage for the SWP was about 3.09 maf, or 56 percent of capacity. SWP deliveries were at 65 percent of the Table A Entitlement.

Mr. Wright, of The Metropolitan Water District of Southern California (MWD), reported that he was filling in for Mr. Foley who was recently unanimously reelected Chairman of the MWD on Tuesday October 9th, for another two-year term. Mr. Wright also reported that as of October 1st, the combined reservoir storage of Lakes Skinner and Mathews, and Diamond Valley Lake was about 932,000 acre-feet or 90 percent of capacity. Storage in Diamond Valley Lake was about 731,600 acre-feet, or 90 percent of capacity. Storage in Lake Mathews was about

159,800, or 88 percent of capacity. Storage in Lake Skinner was about 40,600 acre-feet or 89 percent of capacity.

Mr. Wright reported that the Colorado River Aqueduct would be reduced to a one-pump flow, and that the other eight pumps would be shut down for maintenance, at each facility along the aqueduct.

Colorado River Operations

Reclamation's Appointment of Dr. Terry Fulp as Lower Colorado Regional Director

Mr. Harris reported that on September 11, 2012, Reclamation Commissioner Connor appointed Dr. Terry Fulp as the Regional Director for the Lower Colorado Region. Mr. Harris reported that Mr. Fulp has been the Deputy Regional Director since 2008 and has periodically served as Acting Regional Director since the departure of Ms. Lorri Gray-Lee nearly a year ago. In addition, Dr. Fulp served as Reclamation's Area Manager for the Boulder Canyon Operations Office while the 2007 Interim Guidelines were developed and finalized. His modeling and hydrologic expertise were instrumental in guiding the development of the 2007 Interim Guidelines to completion.

Final Arizona Water Bank Accounting of Southern Nevada Water Authority Interstate Account for Calendar Year 2011

Mr. Harris reported that on August 30th the Arizona Water Bank Authority submitted to Reclamation its final verified accounting of the Southern Nevada Water Authority (SNWA) Interstate Account for calendar year 2011. The SNWA began 2011 with 600,651 acre-feet of storage credits. SNWA made no deposits or withdrawals from its account during 2011, and ended the year with 600,651 acre-feet of long-term storage credits in its interstate account.

National Water Resources Association Annual Conference, San Diego, California

Mr. Harris reported that Reclamation Commissioner Connor plans to be available for short meetings with stakeholder groups at the National Water Resources Association annual conference. The conference runs from October 31st through November 2nd, at the Hotel Del Coronado, San Diego, California. Appointments should have been scheduled through Reclamation's Lower Colorado Regional Office by September 28th.

Final Consultation on the 2013 Annual Operating Plan

Mr. Harris reported that the final consultation of the Draft 2013 Annual Operating Plan (2013 AOP) was held via webinar on September 12th. The Upper Level Balancing Tier will govern releases from Lake Powell. Total releases from Glen Canyon Dam are set to be at least 8.23 maf. The Intentionally Created Surplus (ICS) Condition will govern releases from Lake Mead, and ICS may be created and delivered in 2013. No unused apportionment is anticipated for 2013. The Inadvertent Overrun and Payback Policy will also be in effect during calendar year 2013. The final draft of the 2013 AOP is available on Reclamation's Upper and Lower Colorado Region webpages (http://www.usbr.gov/uc/water/rsvrs/ops/aop/AOP13_draft.pdf).

Mr. Harris reported that at the final consultation webinar, Reclamation provided a summary of Water Year 2012. Water Year 2012 was the third driest year on record for the Colorado River Basin. As of May 17th, the forecast April-July runoff into Lake Powell was 14 percent of average. The total ended up being 29 percent of average or 2.063 maf. Upper Basin precipitation during Water Year 2012 was approximately 80 percent of average. The 2012 water year started with System storage at about 64 percent of capacity and was projected to end with 60 percent of capacity. Current assessments are that Water Year 2012 ended with about 56 percent of capacity. In the lower-48 states, July was the hottest year on record and drought conditions existed in over 60 percent of the United States.

Status of the Colorado River Basin Water Supply and Demand Study Report

Mr. Harris reported that the Basin Study Project Team met in Santa Fe, New Mexico, on September 19-20, 2012 and finalized the portfolio and modeling approach. The final report is now scheduled for release in late-November, to give time for a thorough review of the technical reports currently being finalized.

Mr. Harris reported that the Basin States are finalizing a white-paper that is intended to identify a set of commitments to future actions or activities following the completion of the Basin Study. The Basin States plan to begin the actions/activities that will capture the best elements of the Basin Study for implementation. The actions/activities could include: conservation and re-use projects; regional solutions such as water banking, weather modification, vegetation management, etc.; and desalination and importation. Some of these actions/activities are already being implemented individually on either a small scale or as pilot projects. The Basin States are exploring ways to work together on the next steps.

Mr. Harris reported that Interior Secretary Salazar recently awarded the Basin Study partnership the Department of the Interior's "Partners in Conservation" award. The award recognizes partnerships that promote conservation, protect natural and cultural resources, and use innovative approaches to resource management. The award ceremony was scheduled to be held at the Main Interior Building in Washington, D.C. on October 18, 2012. The Executive Director and some agency representatives are planning to attend the event as well as representatives from some of the other Basin states.

Status of Reclamation's Inadvertent Overrun and Payback Policy and Procedures

Mr. Harris reported that Reclamation's Lower Colorado Region initiated a process to finalize its procedures associated with administering the Inadvertent Overrun and Payback Policy (IOPP). The IOPP is a key component of the 2003 "Colorado River Water Delivery Agreement". The IOPP Procedures have been through an extensive "fatal-flaw" review, and Reclamation hopes to finalize the Procedures by the end of 2012. Reclamation's guiding principles associated with finalizing the Procedures include: keeping the System whole; encouraging appropriate behavior; and ensuring that all users are treated fairly and equitably. The next meeting is scheduled for October 19th in Las Vegas, Nevada.

California 2012 Benchmark Issue

Mr. Harris reported that the 2001 Interim Surplus Guidelines (ISG) and 2007 Interim Guidelines contain a series of benchmark reporting dates (i.e. 2003, 2006, 2009, and 2012). Associated with each benchmark reporting date is a benchmark quantity. The Benchmark quantity is the combined total of California's agricultural water use plus 14,500 acre-feet of Present Perfected Right water uses. California's combined agricultural water use must be at or below the benchmark quantity in order for the benchmark to be met. The 2012 Benchmark quantity is 3.47 maf, and at this point California has not met the Benchmark. The ISG and 2007 Interim Guidelines require that California report its progress toward implementation of its Colorado River Water Use Plan during the AOP-development process. California formally notified the other Basin States and Reclamation at the 2nd AOP consultation meeting that it had not yet met the 2012 Benchmark. A meeting was scheduled for October 15th, in Las Vegas, Nevada, to initiate a process to discuss and address the issue. Mr. McDaniel asked if California had met the benchmark in 2003, 2006, and 2009. Mr. Harris reported that California had met the benchmarks in previous years, though in 2006 there was an allowance for schedule slippage associated with the lining of the All-American Canal. Mr. McDaniel asked what the consequences were of not meeting the 2012 Benchmark. Mr. Harris reported that it's possible that the Interim Surplus Guidelines could be suspended until such time as the benchmark could be met. There was discussion about scheduled transfers, Salton Sea mitigation, and meeting of the previous benchmarks over the last ten years or so.

Federal Register Notice of "Establishment of the Advisory Committee on Climate Change and Natural Resource Science"

Mr. Harris reported that the Department of the Interior is establishing a Federal advisory committee on "Climate Change and Natural Resource Science". The committee will provide the Secretary with advice on matters and actions related to the establishment and operations of the U.S. Geological Survey National Climate Change and Wildlife Science Center. The committee will obtain input from federal, state, tribal, local government, non-governmental organizations, private sector, and academic institutions. Nominations for members for the committee are being accepted by the U.S. Geological Survey through November 19th. A copy of the *Federal Register* notice was included in the Board folder.

EXECUTIVE SESSION

Vice Chairman Knutson called the meeting into Executive Session at 10:55 a.m. to hear Mr. Zimmerman's report on the status of the Binational negotiations with Mexico.

Vice Chairman Knutson reconvened the meeting into open session at 11:51 a.m.

WATER QUALITY

Colorado River Environmental Activities

Status of the Long-Term Experimental and Management Plan Environmental Impact Statement for Glen Canyon Dam (LTEMP)

Mr. Harris reported that Reclamation and the National Park Service (NPS) are engaged in the LTEMP process. The LTEMP will include scientific knowledge gained through the Adaptive Management Program since the Record of Decision in 1996. Implementation of the LTEMP is expected to guide Glen Canyon Dam operations for the next 15-20 years. As reported at previous Board meetings the Basin States prepared a suggested alternative to be included in the LTEMP EIS. The Basin States Alternative was submitted to Reclamation and the NPS co-leads on July 2nd. The Basin States Alternative accomplishes the following: implements management actions to benefit key resources (i.e. humpback chub, and manages the trout, sediment resources, and benefit the aquatic food-base); uses scientific experimentation and research to further identify and develop future management actions (i.e. utilizes the principles of adaptive management); balances learning with improvements in key resources; addresses the full-range of possible future hydrologic and reservoir conditions; adheres to and conforms with the 2007 Interim guidelines; and recognizes and incorporates provisions of recently issued Findings of No Significant Impacts for the High-Flow Experimental Protocol and Non-Native Fish Control Environmental Assessments.

Mr. Harris reported that on September 28th the Basin States representatives met with Reclamation and NPS and answered technical questions associated with the Department of Interior's preliminary review of the Basin States Alternative. The Department of the Interior team thoroughly reviewed the Basin States Alternative and asked many detailed questions over the course of several hours. The Department of the Interior team complimented the Basin States for the extensive and detailed report on the Basin States Alternative. Reclamation and NPS anticipate issuance of the full suite of draft alternatives to be analyzed in the LTEMP EIS in early 2013.

Status of the PG&E Topock Groundwater Remediation Project

Mr. Harris reported that work continues at the PG&E Topock compressor station, near Needles, California, to clean up the hexavalent chromium contamination of the local groundwater aquifer. PG&E is working closely with the California Department of Toxic Substance Control (DTSC) and the Department of the Interior's Office of Environmental Policy and Compliance in developing and implementing a groundwater remediation plan. PG&E's current evaluation includes an arsenic treatment component within the plan. DTSC is reviewing PG&E's plans and has initiated a California Environmental Quality Act review of the soil remediation plan. Mr. Harris reported that he expects an update on the soil remediation plan to be reported at an upcoming Board meeting.

OTHER BUSINESS

Next Board Meeting

Vice Chairman Knutson announced that the next meeting of the Colorado River Board will be held on Wednesday, November 14, 2012, 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, Vice Chairman Knutson asked for a motion to adjourn. Mr. Kuiper moved the Board meeting be adjourned. Mr. Seiler seconded the motion, and with unanimous approval, the Board meeting was adjourned at 11:53 a.m. on October 10, 2012.

Tanya M. Trujillo
Executive Director

3.b. - Proposed 2013 Colorado River Board Meeting Schedule

Board Meeting Date

Other Meetings and Events

January 9

January 1: New Year's Day Holiday
January 21: Martin Luther King Jr. Day Holiday

February 13

February 18: President's Day Holiday
February 20-22: UWII Spring Water Conference,
Hilton Palm Springs, Palm Springs, CA
February 26-28: ACWA 2013 Washington D.C. Conference,
The Washington Court Hotel, Washington, D.C.

March 13

April 10

April 1: Cesar Chavez Day Holiday
April 9-11: CMUA 81st Annual Conference,
Loews, Coronado Bay Hotel, San Diego, CA
April 15-17: NWRA Federal Water Issues Conference,
The Washington Court Hotel, Washington, D.C.

May 15

May 7-10: ACWA 2013 Spring Conference,
Sacramento Convention Center & Surrounding Hotels, CA
May 27: Memorial Day Holiday

June 12

July 10

July 4: Independence Day Holiday
July 29-31: NWRA Western Water Seminar,
Skamania Lodge, Stevenson, WA

August 14

August 14-16: UWII 20th Annual Urban Water Conference,
Hilton Mission Bay Resort, San Diego, CA

September 11

September 2: Labor Day Holiday

October 9

November 13

November 11: Veteran's Day Holiday
November 12-14: NWRA 82nd Annual Conference,
Hotel Del Coronado, Coronado, CA
November 28-29: Thanksgiving Day Holiday

December 11 (**Special Meeting** in conjunction with CRWUA Conference)

December 3-6: ACWA 2013 Fall Conference,
JW Marriott Hotel at L.A. Live, Los Angeles, CA
December 11-13: CRWUA 68th Annual Conference,
Caesars Palace, Las Vegas, Nevada
December 25: Christmas Day Holiday

2013

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ACWA - Association of California Water Agencies (916) 441-4545 FAX (916) 325-4849
 CMUA - California Municipal Utilities Association (916) 326-5800 FAX (916) 326-5810
 CRWUA- Colorado River Water Users Association (760) 398-2651 FAX (760) 398-3711
 NWRA - National Water Resources Association (703) 524-1544 FAX (703) 524-1548
 UWII - Urban Water Institute, Inc. (949) 679-9676 FAX (949) 305-9919

NOTE: Regular Meetings are held on Wednesday following the second Tuesday in the month. Unless otherwise noted, Regular Meetings will be held in Ontario area, California, or in the Board's office, 770 Fairmont Avenue, Conference Room, Glendale, California, and will start at 10:00 a.m.

4.a. - Colorado River Water Report

**SUMMARY WATER REPORT
COLORADO RIVER BASIN
November 1, 2012**

RESERVOIR STORAGE (as of October 31)	September 30, 2012					
	MAF	ELEV. IN FEET	% of Capacity	MAF	ELEV. IN FEET	% of Capacity
Lake Powell	13.706	3,619.5	56	13.929	3,621.6	57
Flaming Gorge	3.020	6,021.2	81	3.030	6,021.4	81
Navajo	0.986	6,027.8	58	1.035	6,032.6	61
Lake Mead	13.263	1,116.5	51	13.135	1,115.2	51
Lake Mohave	1.377	630.8	76	1.606	639.6	89
Lake Havasu	0.606	449.3	98	0.561	447.0	91
Total System Storage	33.643		56	34.023		56
System Storage Last Year	38.527		65	38.680		65

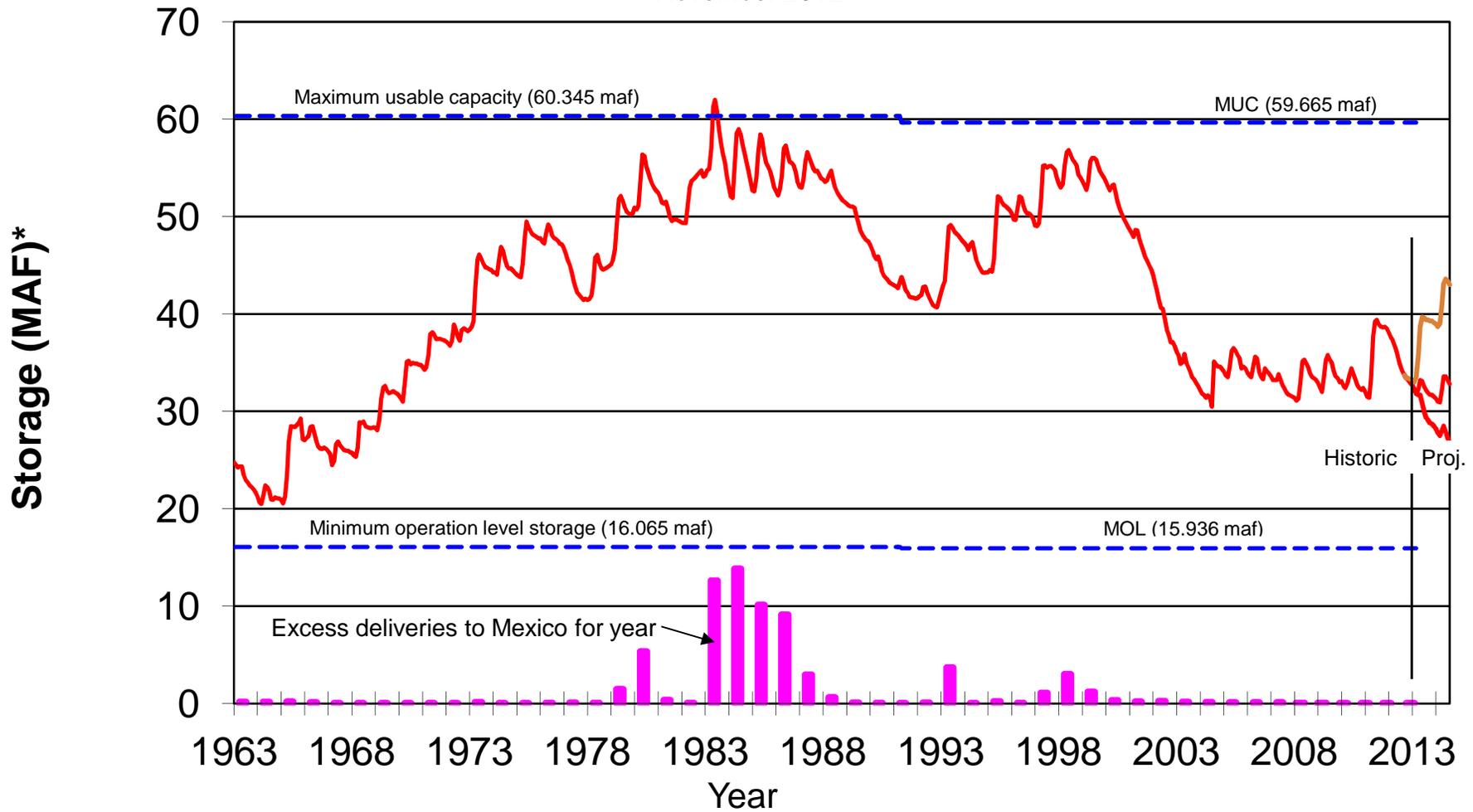
				September 17, 2012	
WY 2013 Precipitation (Basin Weighted Avg) 10/01/12 through 11/05/12			55 percent (1.5")	73 percent (23.9")	
WY 2013 Snowpack Water Equivalent (Basin Weighted Avg) on day of 11/05/12			N/A(N/A)	N/A(N/A)	
(Above two values based on average of data from 116 sites.)					
				September 17, 2012	
November 1, 2012 Forecast of Unregulated Lake Powell Inflow	MAF	% of Normal		MAF	% of Avg.
2012 April through July unregulated inflow observed	2.063	29 %		2.063	29%
2012 Water Year observed	4.908	45 %		4.908	45%

USBR Forecasted Year-End 2012 and 2011 Consum. Use, November 5, 2012 a.				MAF	
				2012	2011
				Diversion - Return =	Net
Nevada (Estimated Total)			0.463	0.207	0.256
Arizona (Total)			3.680	0.871	2.809
CAP Total					1.621
<i>Az. Water Banking Authority</i>					0.134
OTHERS					1.188
California (Total) b./			5.066	0.657	4.409
MWD					0.730
3.85 Agriculture	<u>Total</u>	<u>Conserved</u>			<u>Forecasted</u>
IID c./	3.196	-0.306			2.890
CVWD d./	0.355	-0.031			0.324
PVID	0.372	0			0.372
YPRD	0.048	0			0.048
Island e./	0.007	0			0.007
Total Ag.	3.978	-0.337			3.641
Others					0.038
PVID-MWD following to storage (to be determined)					0
Arizona, California, and Nevada Total f./			9.209	1.734	7.475
					7.321

- a./ Incorporates Jan.-Sept. USGS monthly data and 75 daily reporting stations which may be revised after provisiona data reports are distributed by USGS. Use to date estimated for users reporting monthly and annually.
- b./ California 2012 basic use apportionment of 4.4 MAF has been adjusted to 4.175 MAF for creation of Intentionally Created Surplus Water by IID (-25,000 AF), and Creation of Extraordinary Conservation (ICS) by MWD (-200,000 AF).
- c./ In 2012, 0.105 MAF being conserved by IID-MWD Agreement as amended in 2007: 112,500 AF being conserved for SDCWA under the IID-SDCWA Transfer Agreement as amended, 90,000 AF of which is being diverted by MWD; 21,000 AF being conserved for CVWD under the IID-CVWD Acquisition Agreement, 67,700 AF being conserved by the All American Canal Lining Project.
- d./ In 2012, 30,850 AF conserved by the Coachella Canal Lining Project(may be ammended by 4,850 AF for mitigation).
- e./ Includes estimated amount of 6,660 acre-feet of disputed uses by Yuma Island pumpers and 209 acre-feet by Yuma Project Ranch 5 being charged by USBR to Priority 2.
- f./ 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.

Monthly Total Colorado River Basin Storage

November 2012



* A resurvey of Lake Powell changed the MUC and MOL in June 1991

Figure 2. Lakes Powell and Mead Monthly Pool Elevation Levels

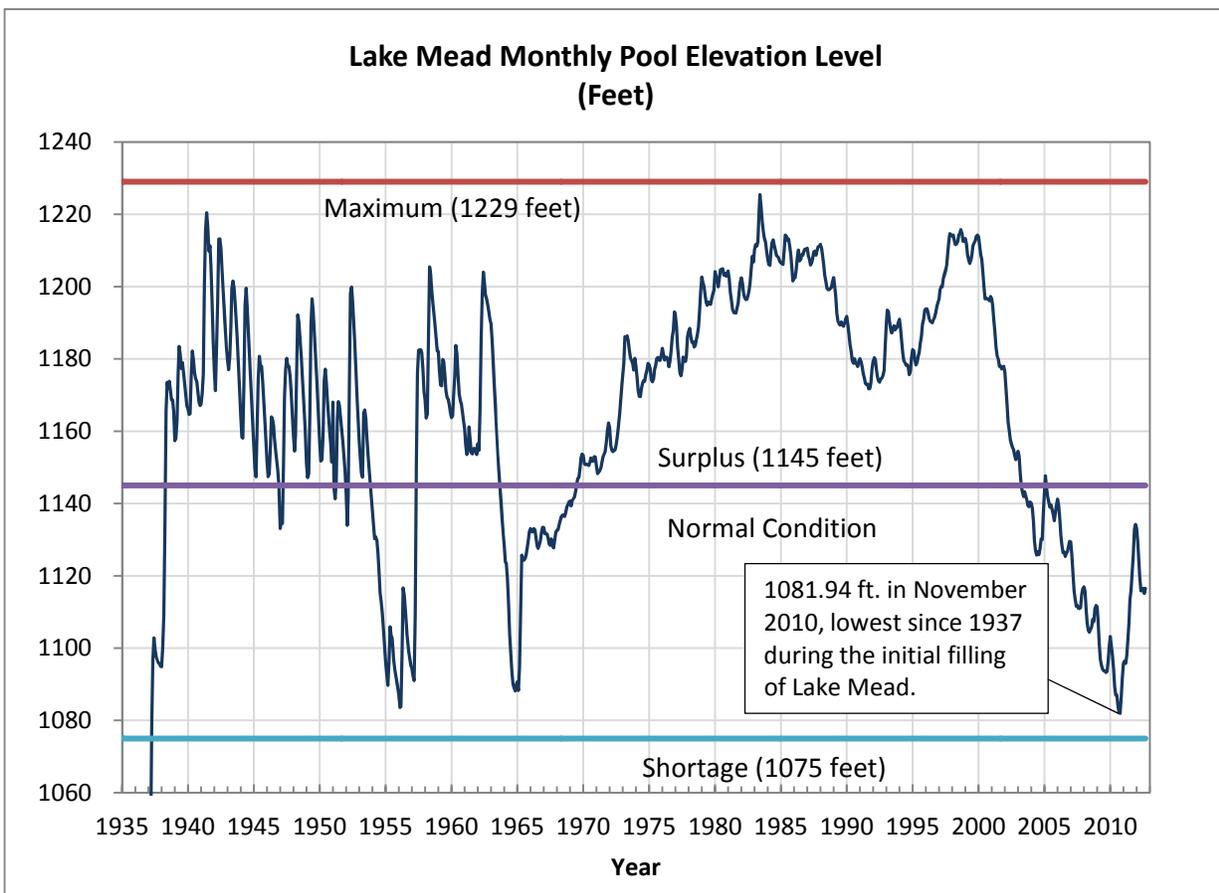
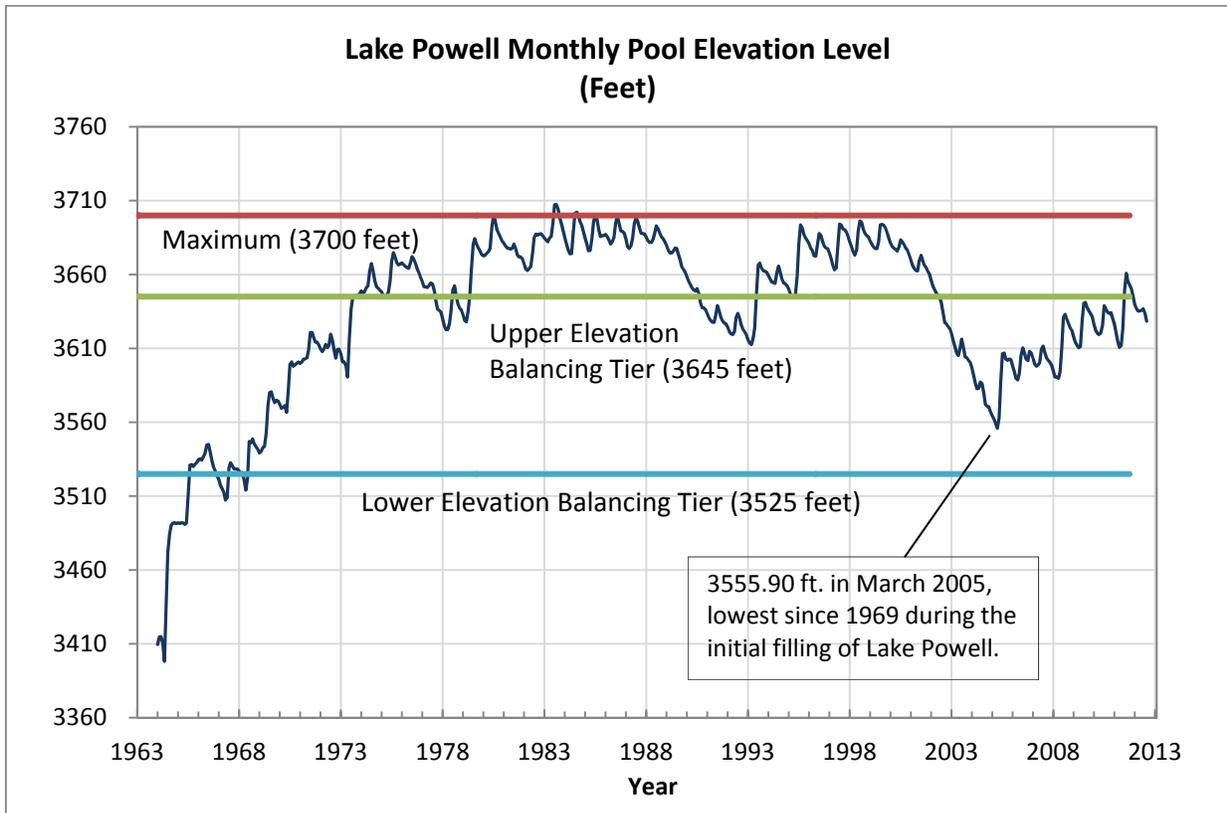


Figure 3. NOAA National Weather Service Monthly Precipitation Maps for September and October 2012

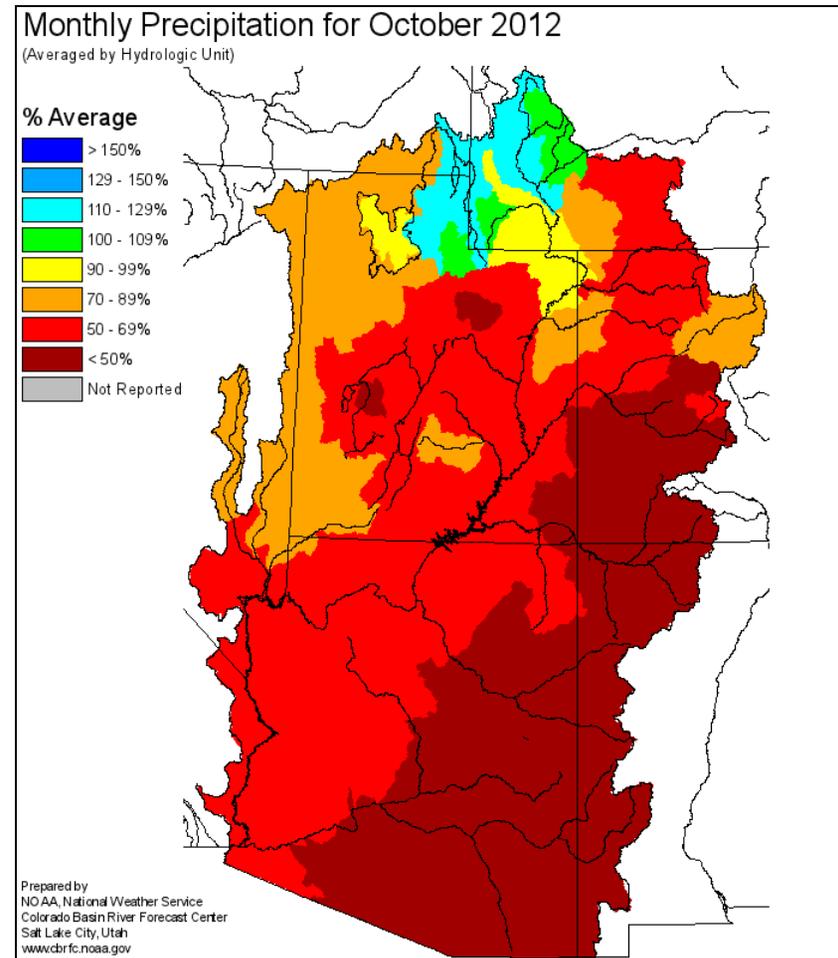
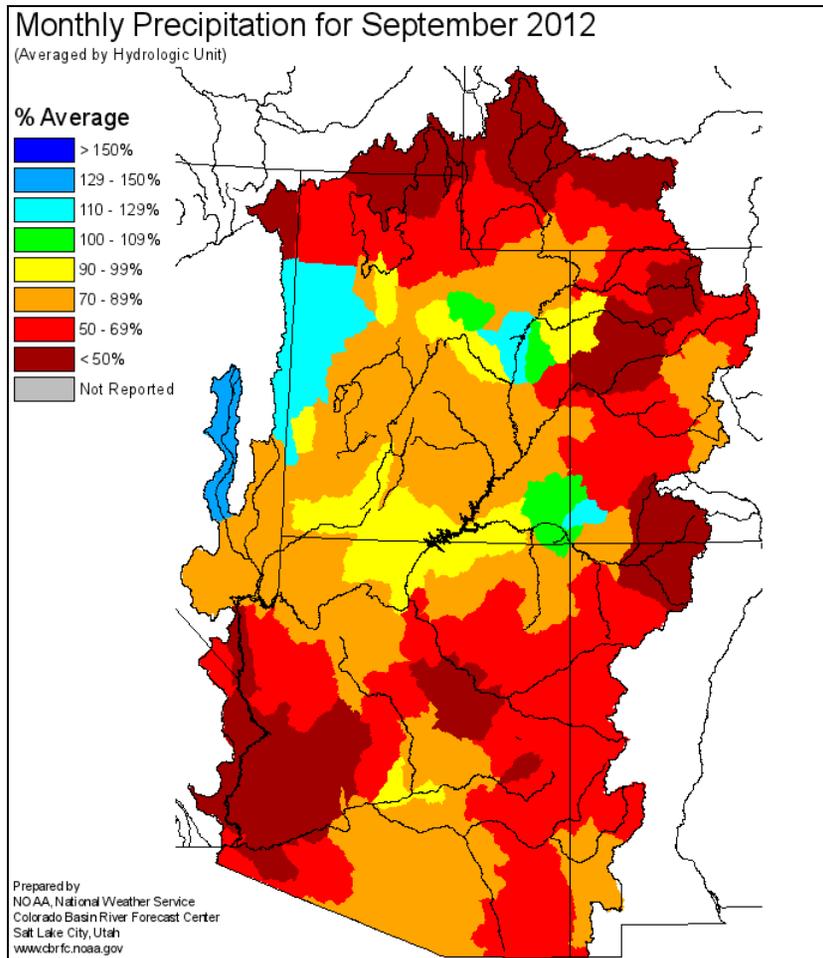


Figure 4. Westside SNOTEL basin snow water equivalent (SWE) as a percent of average

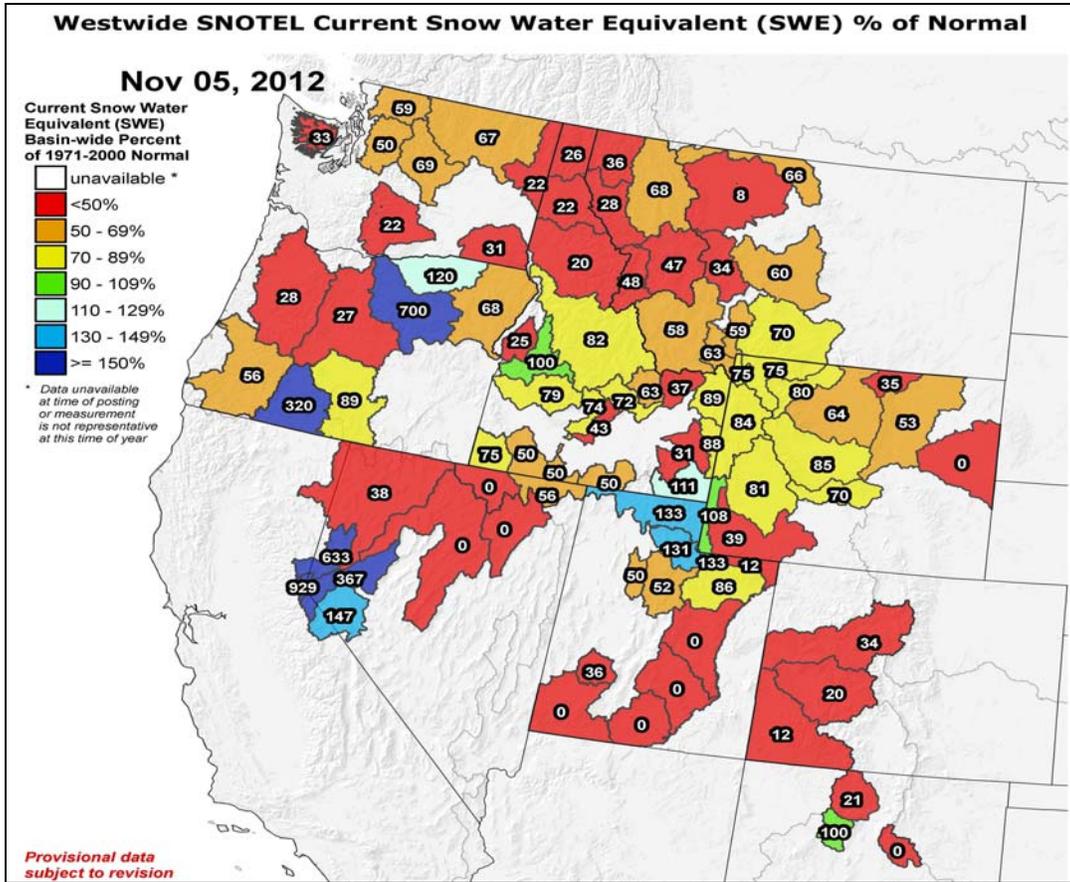


Figure 5. SNOTEL Water-Year-To-Date (WYTD) SWE for the CO headwaters basin

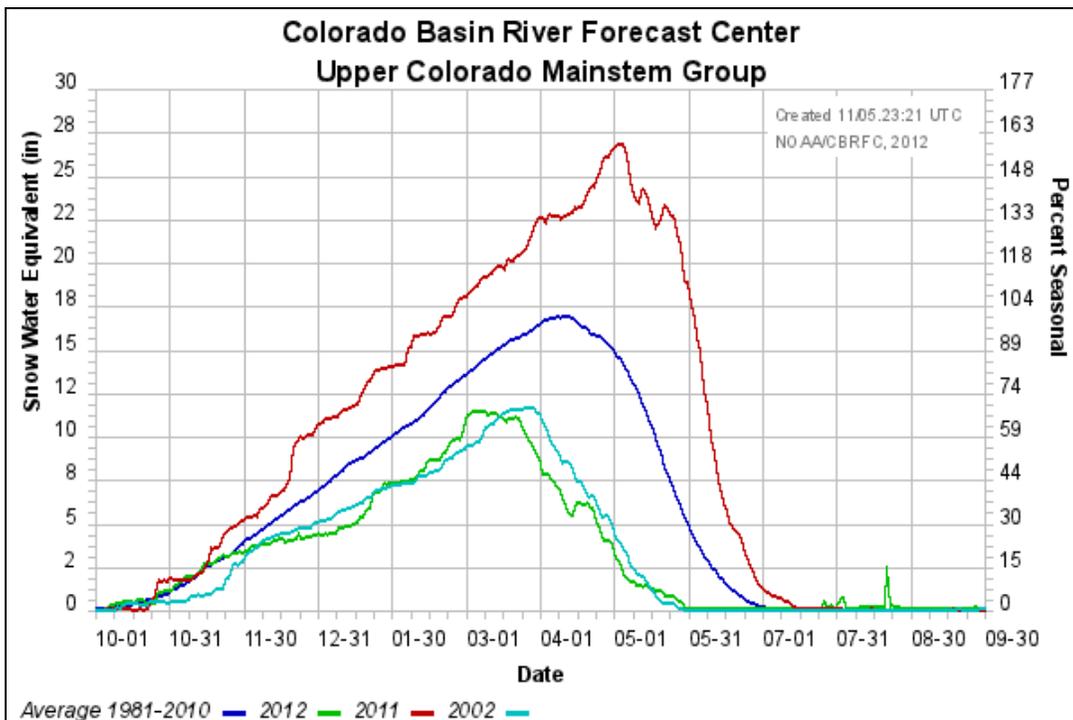
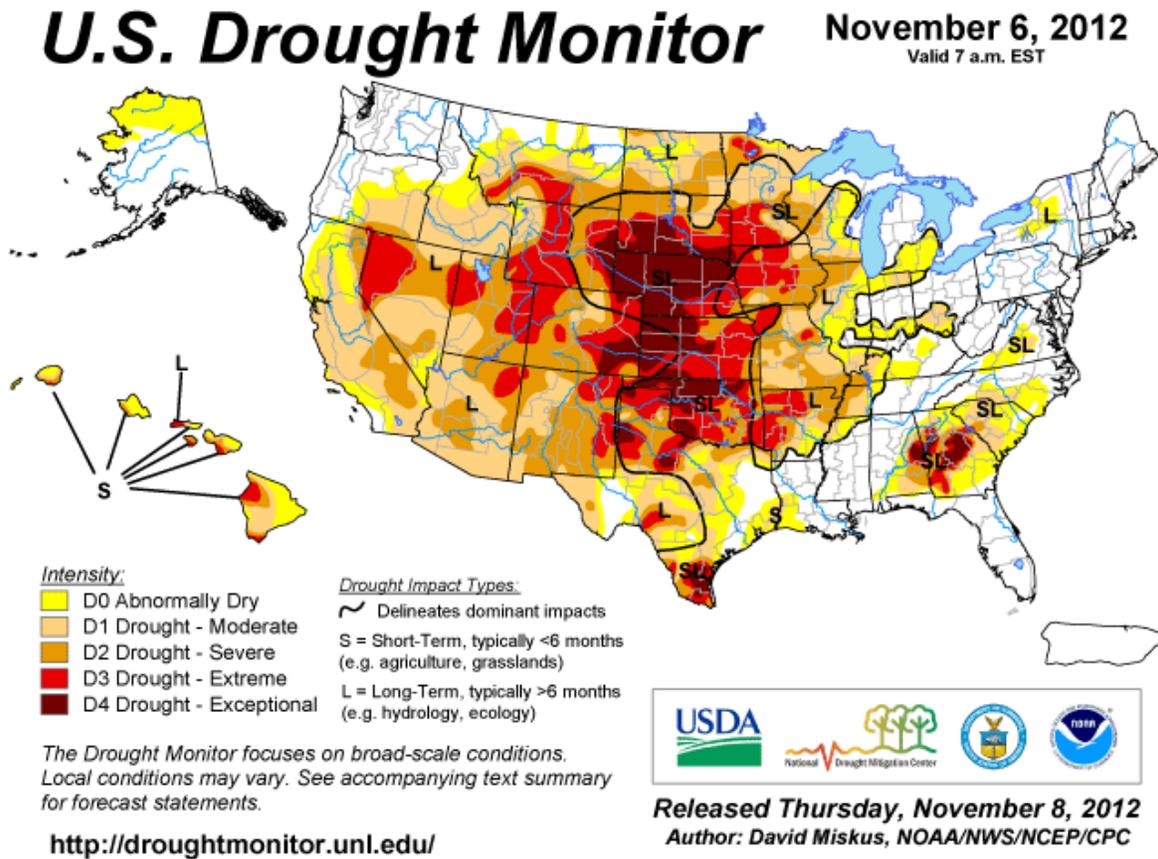


Figure 6. USDA Current United States Drought Monitor Map



The U.S. Drought Monitor is produced in partnership between the National Drought Mitigation Center at the University of Nebraska-Lincoln, the United States Department of Agriculture, and the National Oceanic and Atmospheric Administration.

U.S. Drought Monitor

November 6, 2012
Valid 7 a.m. EST

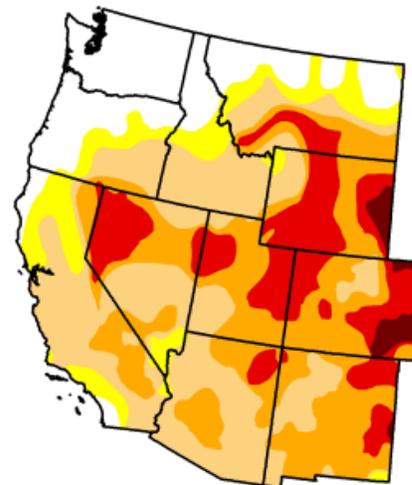
West

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	16.89	83.11	73.49	43.52	17.38	1.90
Last Week (10/30/2012 map)	14.06	85.94	76.17	44.59	17.54	1.93
3 Months Ago (08/07/2012 map)	18.40	81.60	68.62	49.94	16.67	0.50
Start of Calendar Year (12/27/2011 map)	48.49	51.51	20.05	12.22	2.67	0.78
Start of Water Year (09/25/2012 map)	15.12	84.88	77.15	43.65	16.85	1.77
One Year Ago (11/01/2011 map)	74.16	25.84	18.67	15.19	9.60	2.87

Intensity:

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



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

<http://droughtmonitor.unl.edu>

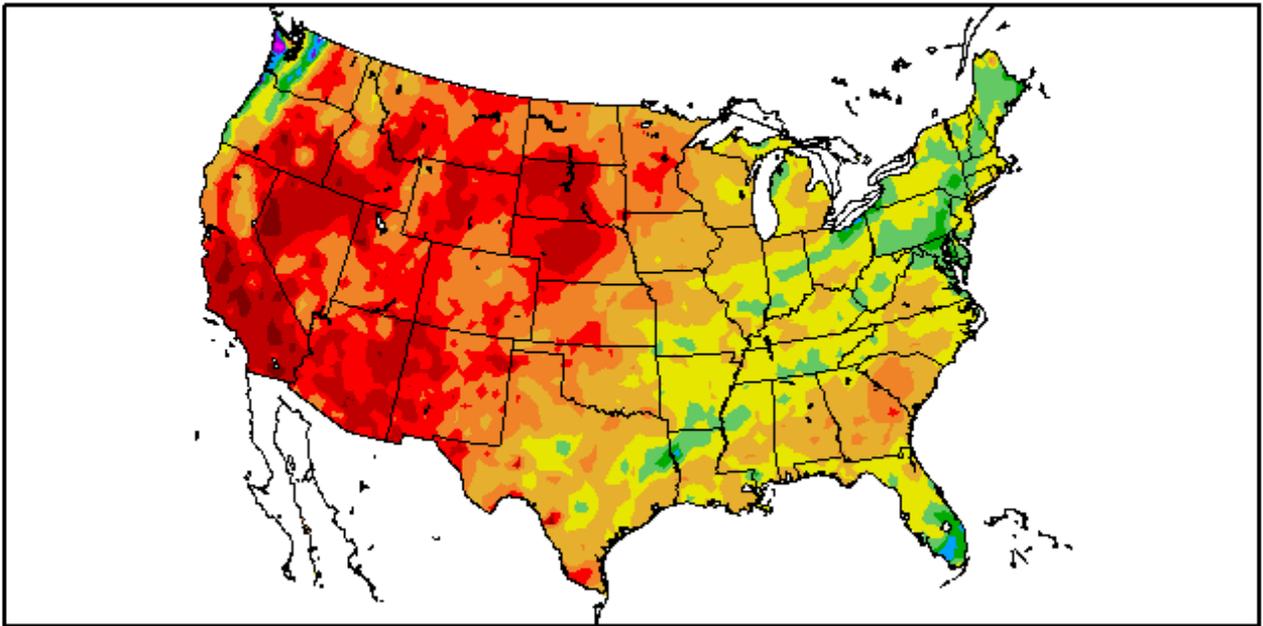


Released Thursday, November 8, 2012
David Miskus, Climate Prediction Center/NCEP/NWS/NOAA

Figure 7. Current Climate Summary Maps - Powered by Applied Climate Information System (ACIS)



Precipitation (in) 9/8/2012 – 11/6/2012



Generated 11/7/2012 at HPRCC using provisional data.

Regional Climate Centers

The Current Climate Summary Maps are produced daily using data from the [Applied Climate Information System \(ACIS\)](#). Stations used are from the National Weather Service Cooperative Observer Network (COOP), and the Automated Weather Data Network (AWDN). All near-real-time data are considered preliminary and should be used responsibly.

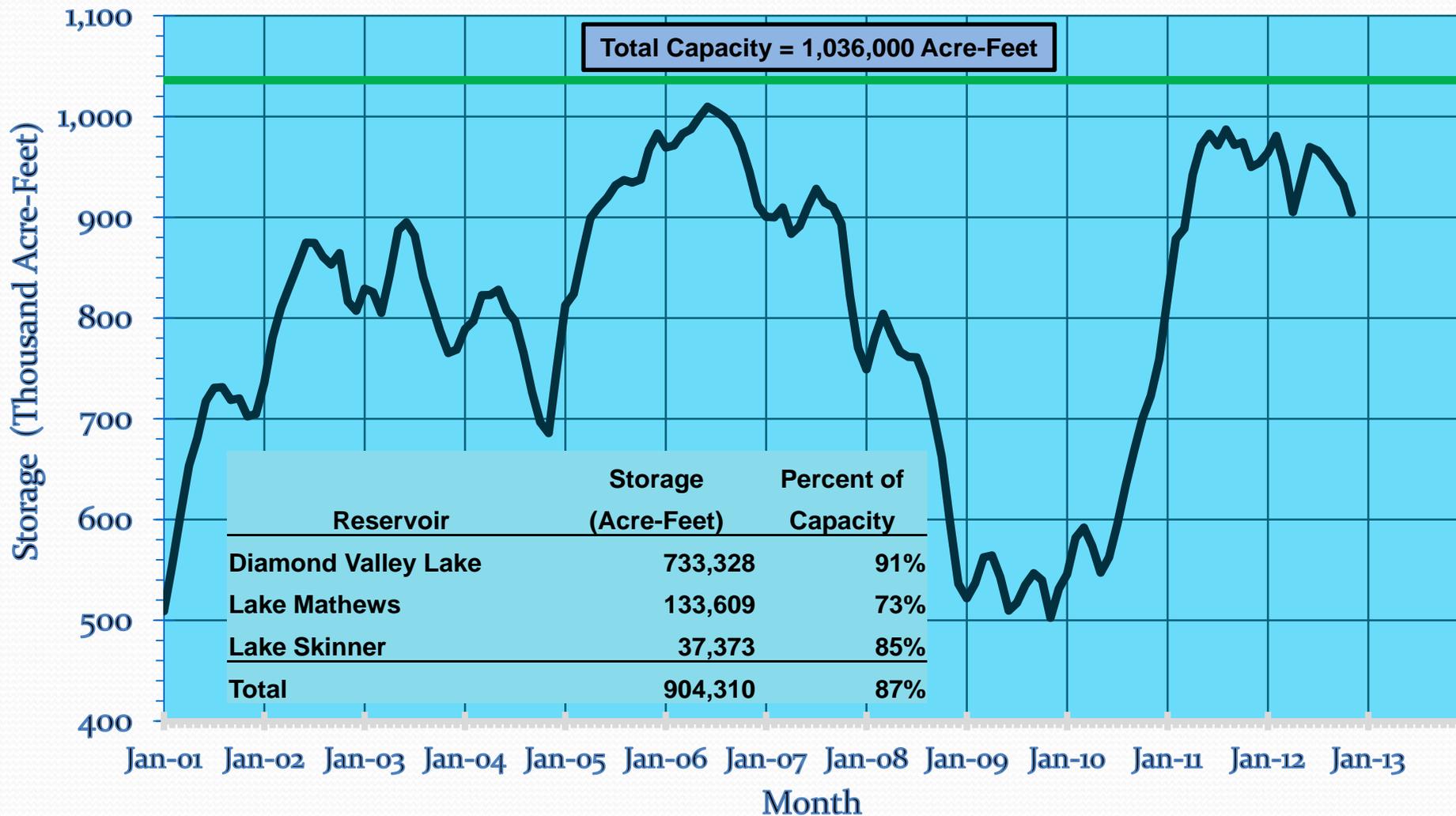


Normal refers to the 1981-2010 Climate Normal for the selected product.

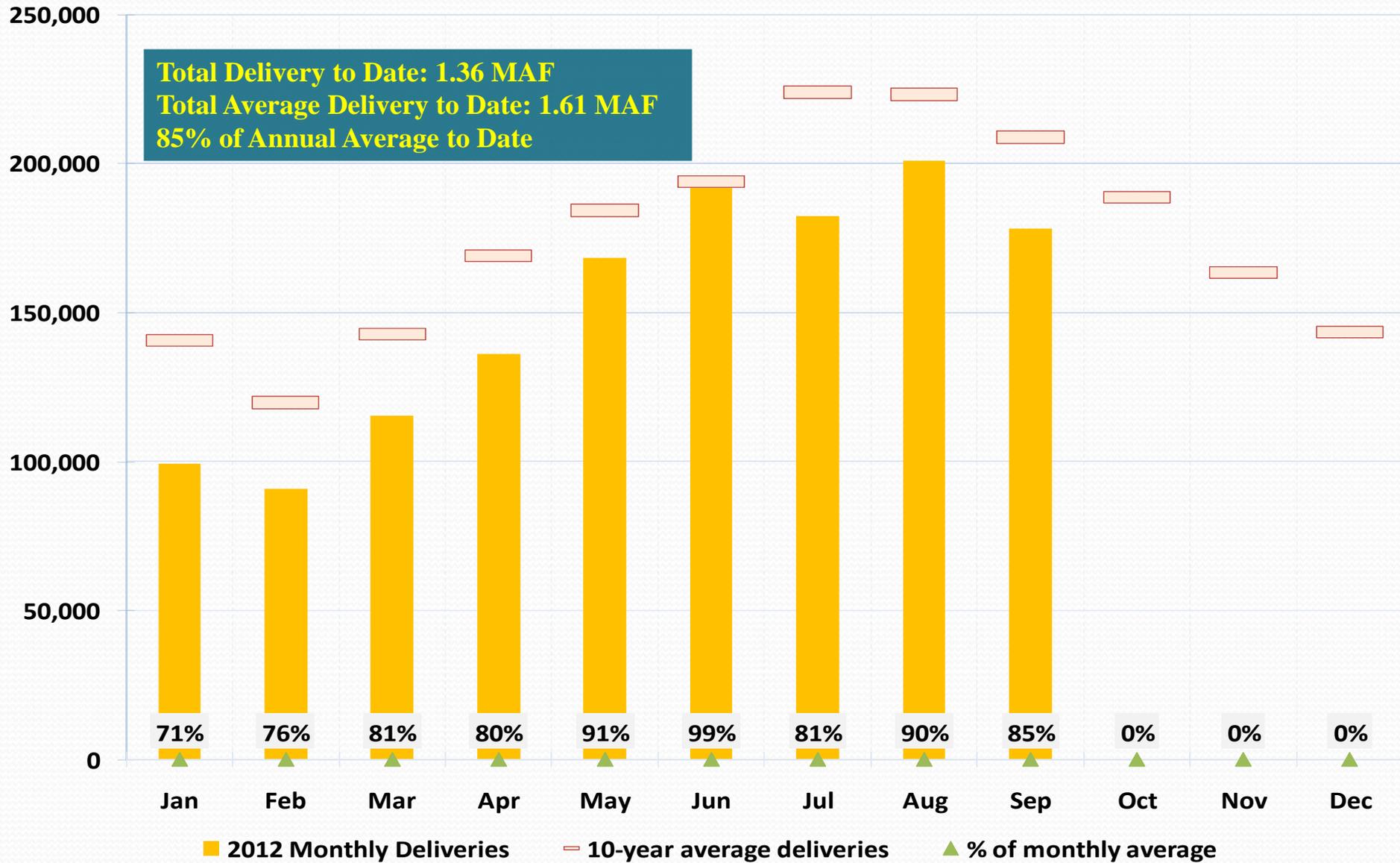
4.b. - State and Local Water Reports

MWD's Combined Reservoir Storage as of November 1, 2012

Lake Skinner, Lake Mathews, and Diamond Valley Lake



2012 Water Deliveries to Member Agencies (AF)



4.c. - Colorado River Operations



United States Department of the Interior

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

OCT 16 2012

IN REPLY REFER TO:
LC-4211
PRJ-23.00

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

Subject: Revised Schedule of Calendar Year 2012 Water Deliveries to Mexico

Dear Mr. Peña:

By letter dated December 22, 2011, you provided us with Mexico's initial schedule for delivery of 1,850,234 thousand cubic meters (1,500,000 acre-feet) of water for 2012. By letter dated February 27, 2012, the Bureau of Reclamation confirmed its ability to execute the requested deliveries at the Northerly International Boundary (NIB) and the Southerly Land Boundary (SLB), as well as diversions at Parker Dam for deliveries to Tijuana.

Subsequent to our February 27, 2012, letter, we received your letters dated March 5, 2012, April 11, 2012, May 3, 2012, June 11, 2012, and August 28, 2012, requesting modifications to Mexico's monthly delivery schedule.

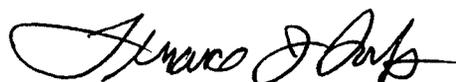
Enclosed is a table which shows the most recent schedule for water deliveries to Mexico (based on the schedule provided in your August 28, 2012, letter) compared to the schedule provided in your December 22, 2011, letter. The most recent schedule provides for a total delivery of 1,687,131 thousand cubic meters (1,367,771 acre-feet), consisting of deliveries of 1,515,131 thousand cubic meters (1,228,328 acre-feet) at NIB, 172,000 thousand cubic meters (139,443 acre-feet) at SLB, and no deliveries at Parker Dam for Tijuana. The schedule incorporates 163,103 thousand cubic meters (132,229 acre-feet) of deferred deliveries pursuant to Minute 318.

By this letter, Reclamation confirms its ability to execute the requested deliveries based on the schedule included with the August 28, 2012, letter, which encompasses all previous requests for modification to the schedule submitted on December 22, 2011. Deliveries of Colorado River water to Mexico during calendar year 2012 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 Minutes No. 242, 314, and 318 of the International Boundary and Water Commission.

As in previous years, we 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.

Sincerely,



Terrance J. Fulp, Ph.D.
Regional Director

Enclosure

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

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

Ms. Sandra A. Fabritz-Whitney
Director
Arizona Department of
Water Resources
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Phoenix, AZ 85012

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

Mr. Scott A. Verhines, P.E.
State Engineer
Office of the State Engineer
State of New Mexico
P.O. Box 25102
Santa Fe, NM 87504-5102

Mr. Patrick Tyrell
State Engineer
State Engineer's Office
State of Wyoming
Herschler Building, 4th Floor East
122 West 25th Street
Cheyenne, WY 82022-0370

Ms. Jennifer Gimbel
Director
Colorado Water
Conservation Board
1313 Sherman Street, Room 721
Denver, CO 80123

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

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

Ms. Anna Morales
Area Operations Manager, Yuma Office
International Boundary and Water Commission
1940 South Third Avenue, Suite A
Yuma, AZ 85364

CY2012 COLORADO RIVER WATER DELIVERIES FOR MEXICO

Month	PREVIOUS SCHEDULE			CHANGE			PREVIOUS SCHEDULE			CHANGE			NEW SCHEDULE			NEW SCHEDULE			NEW SCHEDULE			
	Colorado River at Morelos Dam (NIB) Acre-Feet	KCM	%	Colorado River at Morelos Dam (NIB) Acre-Feet	KCM	%	TOTAL DELIVERY (December 22, 2011) Acre-Feet	KCM	%	TOTAL DELIVERY (August 9, 2012) Acre-Feet	KCM	%	Colorado River at Morelos Dam (NIB) Acre-Feet	KCM	Land Boundary near San Luis, SA Acre-Feet	KCM	Diversions at Parker Dam to Effect Emergency Deliveries to Tijuana in accordance with Minute No. 314 Acre-Feet	KCM	Mexico's Requested Downward Delivery Adjustment in Accordance With Minute No. 318 Acre-Feet	KCM	TOTAL DELIVERY PLUS DOWNWARD DELIVERY ADJUSTMENT Acre-Feet	KCM
JAN	118,341	145,973	0%	130,284	160,704	0%	130,284	160,704	0%	130,284	160,704	0%	118,341	145,973	11,943	14,731	0	0	0	130,284	160,704	0
FEB	146,500	180,706	0%	158,443	195,437	0%	158,443	195,437	0%	158,443	195,437	0%	146,500	180,705	11,943	14,731	0	0	0	158,443	195,436	0
MAR	174,797	215,614	0%	186,740	230,342	0%	186,740	230,342	0%	186,740	230,342	0%	174,797	215,614	11,943	14,731	0	0	0	186,740	230,342	0
APR	193,087	238,171	-14%	205,407	253,368	-14%	205,407	253,368	-14%	177,139	218,500	-14%	165,196	203,769	11,943	14,731	0	0	28,268	205,407	253,368	0
MAY	101,142	124,758	-14%	112,314	138,539	-13%	112,314	138,539	-13%	97,665	120,469	-13%	86,493	106,688	11,172	13,781	0	0	14,650	112,314	138,539	0
JUN	102,056	125,885	-11%	113,999	140,616	-10%	102,477	126,403	-10%	102,477	126,403	-10%	90,534	111,672	11,943	14,731	0	0	15,699	102,477	126,403	0
JUL	109,249	127,355	-12%	115,781	142,086	-11%	102,617	126,576	-11%	102,617	126,576	-11%	90,674	117,844	11,943	14,731	0	0	15,882	102,617	126,576	0
AUG	92,948	114,650	-13%	104,505	128,906	-12%	92,284	113,832	-12%	92,284	113,832	-12%	80,727	99,576	11,557	14,256	0	0	12,221	92,284	113,832	0
SEP	90,337	111,429	-14%	101,509	125,210	-12%	89,807	110,160	-12%	89,807	110,160	-12%	78,135	96,379	11,172	13,781	0	0	12,201	90,337	111,429	0
OCT	52,858	65,200	-15%	63,672	78,539	-13%	55,371	68,299	-13%	55,371	68,299	-13%	44,934	55,425	10,437	12,874	0	0	8,302	52,858	65,200	0
NOV	90,836	111,428	-17%	101,893	125,684	-15%	86,155	106,272	-15%	86,155	106,272	-15%	74,588	92,016	11,557	14,256	0	0	12,585	90,836	111,428	0
DEC	94,153	116,136	-18%	106,043	130,802	-16%	89,289	110,137	-16%	89,289	110,137	-16%	77,399	95,470	11,890	14,666	0	0	12,422	94,153	116,136	0
TOTAL	1,359,803	1,677,302	(162,170)	1,500,000	1,850,234	(163,103)	1,367,771	1,687,131	(163,103)	1,367,771	1,687,131	(163,103)	1,228,328	1,515,131	139,443	172,000	0.00	0.00	132,229	1,500,000	1,850,234	0

1/ New water delivery schedule based on letter received from IBWC dated August 28, 2012 which transmitted the schedule dated 8-09-2012. The change is between the new schedule provided and the previous schedule dated December 23, 2011.

WaterSMART

A Three-Year Progress Report



OCTOBER 2012

Commissioner's Office
Washington, D.C.

Media Contact: Blake Androff
202-208-6416

Released On: October 11, 2012

WaterSMART Program is Stretching Water Supplies, Making Progress toward Sustainable Balance of Supply & Demand

Program provides scientific, financial and collaborative tools that will enable Interior to meet its water savings goal of 730,000 acre-feet per year by 2013

WASHINGTON - The Department of the Interior's WaterSMART program is saving water, finding better ways to stretch existing supplies and helping partners plan to meet future water demands, according to a three-year progress report on the program released today. The program was launched by Secretary of the Interior Ken Salazar in 2010.

Combining new initiatives with existing programs as part of a comprehensive strategy for sustainable management of water supplies in the United States, WaterSMART projects, along with other conservation activities, are expected to save an estimated 587,839 acre-feet of water a year – enough water for more than 2.3 million people. These water conservation results put Interior well on the way toward achieving its high priority goal of saving 730,000 acre-feet per year by the end of 2013.

"WaterSMART allows us to manage water in a more sustainable manner to achieve balance between the water we have and the water we need for humans and ecosystems," said Assistant Secretary for Water and Science Anne Castle. "Using the best available science, WaterSMART provides relief for immediate water shortages while planning for long-term needs through collaborative processes."

The water savings and other accomplishments are detailed in the report, *WaterSMART: A Three-Year Progress Report*. "SMART" stands for "Sustain and Manage America's Resources for Tomorrow."

In addition to saving water, the WaterSMART Program has conserved 40 million kilowatt-hours of electricity annually – enough power for 3,400 households.

"Water and energy are linked," Bureau of Reclamation Commissioner Michael L. Connor said. "Water is necessary to generate power, while energy is required to store, move and treat water. Water saved is energy earned, and energy saved is water earned."

"The WaterSMART initiative has given a big jumpstart to our work on a National Water Census," said USGS Director Marcia McNutt. "This is the first survey in more than 30 years to determine the quantity, quality, and use of the nation's water supply. Our hope is that this information will enable

water resource managers and other stakeholders to optimize how water is used for future human, economic, energy production and environmental purposes."

Other accomplishments identified in the WaterSMART three-year progress report include:

- Since 2009, about \$94 million in federal funding was awarded through Reclamation's WaterSMART Grants for 158 projects, leveraging more than \$280 million in water management improvements across the West.
- Reclamation and the U.S. Department of Agriculture's Natural Resources Conservation Service began a new partnership in 2011 to leverage funding for water delivery agencies and agricultural producers in California. Reclamation made \$4.1 million in competitive WaterSMART Grants available to five irrigation districts for water management improvements within the delivery systems used by farmers. NRCS committed \$7 million to farmers who receive water from those districts so on-farm conservation improvements can be made.
- About \$231 million in federal funding was provided for Title XVI Water Reclamation and Reuse Projects since 2009. Eight projects have finished construction since that time, and eight others are expected to be completed in 2013. Project sponsors delivered about 262,000 acre-feet of recycled water in 2011, providing a drought-resistant supply and new flexibility for water managers.
- Reclamation provided cost-shared funding for 129 smaller-scale efficiency projects through the Water Conservation Field Services Program. 69 of those projects are now completed.
- Reclamation has also provided more than \$2.6 million in funding for 18 System Optimization Reviews since 2009, assisting project sponsors in their assessments of the potential for water management improvements in the future.
- As part of the National Water Census, the USGS has begun Geographic Focus Areas Studies – comprehensive technical assessments of water availability and use – in the Colorado, Delaware, and Apalachicola-Chattahoochee-Flint River basins.
- Interior agencies are also taking steps to conserve water at more than 2,400 of their own facilities across the Nation.
- Reclamation contributed more than \$12 million toward 17 Basin Studies in states across the West, assisting partners plan for the long-term challenges of water scarcity, supply and demand imbalances, and the impacts of climate change.
- Launched in 2012, the Cooperative Watershed Management Program provided eight entities \$333,500 in grants during the first year. Its purpose is to improve water quality and ecological resilience and to reduce conflicts over water through collaborative conservation efforts in the management of local watersheds.

WaterSMART: A Three-Year Progress Report is available online at <http://www.usbr.gov/WaterSMART>.

###

Reclamation is the largest wholesale water supplier and the second largest producer of hydroelectric power in the United States, with operations and facilities in the 17 Western States. Its facilities also provide substantial flood control, recreation, and fish and wildlife benefits. Visit our website at www.usbr.gov.

Relevant Links:

[WaterSMART](#)

[WaterSMART Clearinghouse](#)

Commissioner's Office
Washington, D.C.

Media Contact: Peter Soeth
303-445-3615

Released On: October 17, 2012

Title XVI Water Reclamation and Reuse Program Construction Funding Opportunities Now Available Through WaterSMART

WASHINGTON - A Title XVI Water Reclamation and Reuse Program funding opportunity is now available through WaterSMART. The Bureau of Reclamation is inviting sponsors of congressionally authorized Title XVI projects to request cost-shared funding for the planning, design or construction of those projects.

The funding opportunity is available by searching funding opportunity number R13SF80002 on www.grants.gov.

Reclamation anticipates providing no more than \$4,000,000 per applicant. This is subject to WaterSMART's final Fiscal Year 2013 appropriations, project funding capability and the amount remaining under the appropriations ceiling for each authorized project. Approximately 5-10 awards are expected to be made this year.

Through the Title XVI Water Reclamation and Reuse Program, Reclamation provides funding for projects that reclaim and reuse municipal, industrial, domestic or agricultural wastewater and naturally impaired ground or surface waters. Reclaimed water can be used for a variety of purposes, such as environmental restoration, fish and wildlife, groundwater recharge, municipal, domestic, industrial, agricultural, power generation or recreation. Water reuse is an essential tool in stretching the limited water supplies.

The WaterSMART Program focuses on improving water conservation and sustainability and helping water resource managers make sound decisions about water use. It identifies strategies to ensure that this and future generations will have sufficient supplies of clean water for drinking, economic activities, recreation and ecosystem health. The program also identifies adaptive measures to address climate change and its impact on future water demands. Through WaterSMART and other conservation programs funded over the last three years, more than 580,000 acre-feet of water per year is estimated to have been saved.

Proposals must be submitted as indicated on www.grants.gov by Dec. 12, 2012 at 4 p.m. MST. It is anticipated that awards will be made this spring.

To learn more about WaterSMART, please visit www.usbr.gov/WaterSMART.

###

Reclamation is the largest wholesale water supplier and the second largest producer of hydroelectric power in the United States, with operations and facilities in the 17 Western States. Its facilities also provide substantial flood control, recreation, and fish and wildlife benefits. Visit our website at www.usbr.gov.

Relevant Links:

[WaterSMART](#)

[Title XVI](#)

Commissioner's Office
Washington, D.C.

Media Contact: Peter Soeth
303-445-3615

Released On: October 30, 2012

WaterSMART Water and Energy Efficiency Grant Funding Available for Projects That Conserve Water or Address Water Sustainability

WASHINGTON - The Bureau of Reclamation is seeking proposals for its WaterSMART Water and Energy Efficiency Grant funding opportunity. Projects that are eligible must conserve water or result in other improvements that address water supply sustainability in the West.

The funding opportunity announcement is available at www.grants.gov using funding opportunity number R13SF80003.

Applications may be submitted to one of two funding groups:

- Funding Group I: Up to \$300,000 will be available for smaller projects that may take up to two years to complete. It is expected that a majority of awards will be made in this funding group.
- Funding Group II: Up to \$1,500,000 will be available for larger, phased projects that will take up to three years to complete. Applicants may not request more than \$750,000 in federal funds within a given year to complete each phase. This will provide an opportunity for larger, multiple-year projects to receive some funding in the first year without having to compete for funding in the second and third years. The second and third year of funding is dependent upon future appropriations.

Projects submitted for funding should seek to conserve and use water more efficiently, increase the use of renewable energy and improve energy efficiency, protect endangered and threatened species, facilitate water markets or carry out other activities to address climate-related impacts on water or prevent any water-related crisis or conflict.

This funding opportunity is also available for water management improvements that complement other ongoing efforts to address water supply sustainability. Through the WaterSMART Basin Study Program, for example, Reclamation is working with State and local partners, as well as other stakeholders, to comprehensively evaluate the ability to meet future water demands within a river basin. Partners who have completed a basin study may apply for cost-shared funding to implement adaptation strategies that meet the eligibility and other requirements of this funding opportunity.

In addition, funding is available for water delivery system improvements that will enable farmers to make additional on-farm improvements in the future, including improvements that may be eligible for Natural Resources Conservation Service funding.

Entities that are eligible for funding include states, Indian tribes, irrigation districts, water districts or other organizations with water or power delivery authority in the 17 western states, American Samoa, Guam, the Northern Mariana Islands and the Virgin Islands.

Reclamation awarded \$11 million to 32 projects in 2012. These projects expect to save more than 58,000 acre-feet of water annually, which is enough water for more than 227,000 people. Combined with the non-federal cost-share, the projects selected will complete \$32.4 million in improvements.

The WaterSMART Program focuses on improving water conservation and sustainability and helping water resource managers make sound decisions about water use. It identifies strategies to ensure that this and future generations will have sufficient supplies of clean water for drinking, economic activities, recreation and ecosystem health. The program also identifies adaptive measures to address climate change and its impact on future water demands. Through WaterSMART and other conservation programs funded over the last three years, more than 580,000 acre-feet of water per year is estimated to have been saved.

Proposals must be submitted as indicated on www.grants.gov by Jan. 17, 2013, 4 p.m. MST. It is anticipated that awards will be made this spring.

To learn more about WaterSMART, please visit www.usbr.gov/WaterSMART.

#

Reclamation is the largest wholesale water supplier and the second largest producer of hydroelectric power in the United States, with operations and facilities in the 17 Western States. Its facilities also provide substantial flood control, recreation, and fish and wildlife benefits. Visit our website at www.usbr.gov.

Relevant Links:

[WaterSMART](#)

[Water and Energy Efficiency Grants](#)

4.e. - Basin States Discussions

DRAFT

**RESOLUTION
OF THE
COLORADO RIVER BOARD OF CALIFORNIA
MINUTE NO. 319 TO THE 1944 MEXICO TREATY**

WHEREAS, the Colorado River Board of California (“Board”) is created by, and operates under, California Water Code sections 12500, *et seq.*

WHEREAS, the California Water Code charges the Board and its officers with the duty to confer with representatives of other States in the Colorado River Basin, representatives of the United States, and others concerning problems and measures relating to the development of the Colorado River Basin, the use of the water of the Colorado River System, and the protection of the interests therein of the State, and to negotiate and to make recommendations respecting such problems and measures.

WHEREAS, under this authority, the Board through its officers has participated in the negotiation of, and has made recommendations concerning the proposed Minute No. 319 to the Treaty between the United States of America and Mexico Respecting the Utilization of Waters of the Colorado and Tijuana Rivers and of the Rio Grande, Feb. 3, 1944, U.S.-Mex., 59 Stat. 1219, T.S. 994 (“Treaty”), and the related U.S. domestic agreements necessary to implement Minute No. 319.

WHEREAS, Minute No. 319 proposes to reduce deliveries to Mexico in low reservoir conditions, provide additional deliveries to Mexico in high reservoir conditions, allow Mexico to create and receive delivery of Intentional Created Mexican Allocation, establishes a Water for the Environment and ICMA/ICS Exchange Pilot Program, and identifies opportunities for binational projects to allow for water conservation or the generation of new water sources to address the growing water demands and future shortage conditions in the basin.

WHEREAS, the Board has participated in the negotiation of certain domestic agreements which provide for inclusion of the Board in consultations under those agreements even though the Board is not party to those agreements, and the Board is willing to participate in those consultations to help safeguard and protect the interests of California contractors and the interests of the state. The parties to the agreements have agreed to include the Board and its officers in any consultations that occur pursuant to the agreements or in any negotiations related to amendment of the agreements.

NOW THEREFOR, BE IT RESOLVED that although the Board and the State of California are not parties to certain domestic agreements, including the Interim Operating Agreement for

Implementation of Minute No. 319 and the 2012 Lower Colorado River Basin Forbearance Agreement for Binational Intentionally Created Surplus and their related exhibits, the Board encourages the California contractors who are parties to those agreements to approve and execute the agreements and their exhibits, and agrees to participate in any consultations under the domestic agreements related to Minute No. 319 and in any negotiations related to amendment of Minute No. 319, the related domestic agreements, and the related exhibits.

Unanimously adopted on the 14th day of November 2012.

Dana B. Fisher, Jr., Chairman

Attest:

W.D. "Bill" Knutson, Vice-Chairman

**MEMORANDUM OF AGREEMENT
ON THE IMPLEMENTATION OF MINUTE NO. 319**

The Secretary of the Interior ("Secretary"), acting through the Commissioner of the Bureau of Reclamation ("Reclamation"); the Commissioner, United States Section of the International Boundary and Water Commission ("USIBWC"); the State of Arizona, acting through the Arizona Department of Water Resources, the State of Colorado, the State of Nevada, acting through the Colorado River Commission of Nevada, the State of New Mexico, the State of Utah, the State of Wyoming; the Upper Colorado River Commission; the Central Arizona Water Conservation District; the Coachella Valley Water District; the Colorado River Board of California; the Imperial Irrigation District; the Metropolitan Water District of Southern California; and the Southern Nevada Water Authority; collectively the "Parties,"

Recognizing and appreciating the historic opportunity presented to cooperate together with Mexico in the international management of the waters of Colorado River to ensure the effective use and enjoyment of waters; and

Desiring to gain experience through a series of temporary measures, including a pilot project to improve infrastructure and conservation in Mexico and share additional flows in Mexico and the United States;

Hereby affirm the following understandings and agreements:

1. The Colorado River is a vital resource to vast areas of the southwestern United States and northwestern Mexico, where it serves as the primary water supply to support agriculture, municipalities, energy, and natural resources.
2. Distribution and use of Colorado River water in the United States is governed by a complex framework of state and federal law, including for the operation of Colorado River infrastructure in the United States by Reclamation. Delivery of specific annual quantities of water from the Colorado River to Mexico is provided for in the 1944 Treaty Concerning the Utilization of Waters of the Colorado and Tijuana Rivers and of the Rio Grande (Feb. 3, 1944, U.S.-Mex., 59 Stat. 1219, T.S. 994) ("1944 Water Treaty"), which is administered for the United States by the United States Section of the International Boundary and Water Commission ("USIBWC").
3. Since 2007, the United States and Mexico have been voluntarily seeking to identify cooperative opportunities to help ensure that the Colorado River system is able to continue to meet the needs of the people of both countries, particularly through innovative and proactive measures for water conservation, storage, supply augmentation, and environmental protection that both countries could implement consistent with the 1944 Water Treaty.
4. On June 17, 2010, the United States and Mexican Commissioners of the International Boundary and Water Commission ("IBWC") agreed to establish a binational Consultative Council composed of representatives of the Commission, the respective federal governments and the seven United States Colorado River Basin States, to facilitate consideration of the

legal, administrative and policy matters associated with developing opportunities for binational cooperative projects with benefits to both countries.

5. On December 17, 2010, the United States and Mexican IBWC Commissioners executed Minute No. 318 under the 1944 Treaty, providing for the temporary adjustment of delivery schedules for water allotted to Mexico under the 1944 Water Treaty to address Mexico's urgent needs as a result of infrastructure damage in Irrigation District 014 caused by the April 2010 earthquake in the Mexicali Valley, Baja California, Mexico.

6. The most recent binational, cooperative effort between the United States and Mexico, including participation by representatives of the seven United States Colorado River Basin States, has been memorialized in Minute No. 319, to be signed on **November 20, 2012**. Minute No. 319 provides for a five-year pilot project of temporary measures and increased cooperation and management of the water resources of the Colorado River, including:

- a. Extension of the provisions of Minute No. 318 to address Mexico's continuing need to recover from severe earthquake damage to water infrastructure in the Mexicali Valley, Baja California;
- b. Acceptance by Mexico of voluntary reductions of water deliveries under certain low reservoir conditions;
- c. Provision by the United States for increases of water deliveries to Mexico under certain high reservoir conditions;
- d. Provision for the creation and later delivery of Intentionally Created Mexican Allocation ("ICMA") and the minimization by Mexico of increased salinity impacts; and
- e. Provision by the United States for investment in water conservation and infrastructure projects in Mexico that will generate water for environmental flows in Mexico, as well as for allocation and use of waters within the United States, and to create long-term benefits for water use within Mexico.

7. Because of the vested legal rights to water allocations in the United States of certain governmental, agricultural, and municipal entities represented by the Parties, as well as the desire of some of the non-federal Parties to invest in Mexican conservation projects and generate additional water for use by those entities, Minute No. 319 requires the mutual acceptance, cooperation, and coordination of the Parties for its implementation in the United States. The Parties hereby confirm their mutual acceptance, cooperation and coordination to carry out the terms of Minute No. 319, which is memorialized through the agreement and execution on this day of a number of implementing arrangements, in the absence of which Minute No. 319 cannot be implemented. These are:

- a. The Interim Operating Agreement for Implementing Minute No. 319;

- b. The 2012 Lower Colorado River Basin Forbearance Agreement for Binational Intentionally Created Surplus; and
- c. The 2012 Contributed Funds Agreement.

8. Section III.3 of Minute No. 319 provides that Mexico will decrease its order of Colorado River water when Lake Mead is at or below specific elevations. Reclamation and the USIBWC hereby confirm that they will implement such decreased deliveries strictly according to the terms of Minute No. 319. Any impacts to salinity resulting from these decreases will be minimized through measures other than through the release of additional water to Mexico.

9. Under Section III.2 of Minute No. 319, Mexico may order specific limited amounts of additional deliveries under certain high reservoir conditions. Reclamation and the USIBWC recognize and acknowledge that these additional deliveries may only be made available with the agreement of the non-federal Parties. The non-federal Parties hereby confirm that they have agreed to make arrangements to make this quantity of water available to Mexico, consistent with the agreements executed this day.

10. Section III.6 of Minute No. 319 requires Mexico to provide to the United States 124,000 acre-feet of ICMA or water deferred under Section III.1 of Minute No. 319 to the United States in consideration for funding provided by the United States for infrastructure and conservation improvements in Mexico to generate and conserve water. The non-federal Parties hereby confirm that they have approved the provision of \$10 million to the United States for transfer to Mexico, and the USIBWC and Reclamation confirm that they have secured approvals for the provision of \$11 million to Mexico for this purpose. The USIBWC hereby confirms that it will implement Minute No. 319 to assure that 124,000 acre-feet of water are available in Mexico's account and are transferred to the United States according to the terms of the Minute. Reclamation confirms that it will transfer the necessary amounts of water to contractors as provided in the implementing agreements executed this day.

11. Because Minute No. 319 can only be implemented with the support, cooperation, and agreement of the non-federal Parties, the USIBWC and Reclamation confirm that they would necessarily consult with, and seek the continued support, cooperation, and agreement of, the non-federal Parties before extending the terms and cooperative programs of Minute No. 319 or negotiating a new arrangement involving similar or different terms and cooperative programs.

12. Consistent with the assurances and commitments set forth in the February 16, 2012, letter from the Commissioners of Reclamation and the USIBWC, the assurances and commitments set out in this Memorandum of Agreement, and the implementing agreements executed this day, the Parties hereby mutually confirm their agreement to support execution and implementation of Minute No. 319, and to avoid circumstances that could in any way lead to disputes or controversies over interpretation or application of Minute No. 319, the 1944 Treaty, or other applicable provisions of law that govern the Colorado River. If an international or domestic dispute does arise, the USIBWC and Reclamation confirm their intention to consult and work with the non-Federal Parties to resolve any such dispute arising during implementation of Minute No. 319.

13. The Parties confirm their mutual understanding that nothing in Minute No. 319 or in its implementation alters or in any way affects the provisions of the Department of the Interior's 2007 Interim Guidelines for the Operation of Lake Powell and Lake Mead, or their respective rights and obligations thereunder. Nor have they waived any rights, claims, or defenses now or in the future under any applicable federal or state law or administrative rule, regulation or guideline.

Signed, on the 20th day of November, 2012, in Yuma, Arizona.

THE UNITED STATES OF AMERICA

By: _____
Michael L. Connor
Commissioner
Bureau of Reclamation

THE UNITED STATES SECTION OF THE INTERNATIONAL BOUNDARY AND WATER COMMISSION

By: _____
Edward Drusina
Commissioner

CENTRAL ARIZONA WATER CONSERVATION DISTRICT

By: _____
David V. Modeer
General Manager

COACHELLA VALLEY WATER DISTRICT

By: _____
J. M. Barrett
Acting General Manager

COLORADO RIVER BOARD OF CALIFORNIA

By: _____
Dana B. Fisher, Jr.
Chairman

COLORADO RIVER COMMISSION OF NEVADA

By: _____
Jayne Harkins
Executive Director

IMPERIAL IRRIGATION DISTRICT

By: _____
Kevin Kelley
General Manager

SOUTHERN NEVADA WATER AUTHORITY

By: _____
Patricia Mulroy
General Manager

THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

By: _____
Jeffrey Kightlinger
General Manager

THE STATE OF ARIZONA ACTING THROUGH THE ARIZONA DEPARTMENT OF WATER RESOURCES

By: _____
Sandra A. Fabritz-Whitney
Director

THE STATE OF COLORADO

By: _____
Jennifer Gimbel
Colorado Commissioner, Upper Colorado River Commission
Director, Colorado Water Conservation Board

THE STATE OF NEW MEXICO

By: _____
Estevan López
Director, New Mexico Interstate Stream Commission

THE STATE OF UTAH

By: _____
Dennis Strong
Director, Utah Division of Water Resources
Commissioner, Utah Interstate Stream

THE STATE OF WYOMING

By: _____
Patrick T. Tyrrell
Wyoming State Engineer

UPPER COLORADO RIVER COMMISSION

By: _____
Don Ostler
Executive Director
Upper Colorado River Commission

Landmark water pact with Mexico could boost Lake Mead

BY HENRY BREAN

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Posted: Nov. 8, 2012 | 7:30 p.m.

After years of negotiations, the United States and Mexico have struck a deal that could keep more water in Lake Mead and help improve water efficiency and the environment south of the border.

The landmark five-year agreement would allow Mexico to store some of its annual Colorado River allotment in Lake Mead for future use.

It also clears the way for the U.S. government and several municipal water agencies, including the Southern Nevada Water Authority, to invest in infrastructure improvements in Mexico in return for a share of the water such projects would save.

It even includes provisions for restoring the flow of the Colorado River to the Gulf of California, albeit on a reduced, experimental scale.

"It's a package that brings huge benefits to Mexico and huge benefits to the states on the Colorado River," water authority general manager Pat Mulroy said.

"I think it can be a real game-changer on the river. Facilities in the U.S. will be used to benefit our neighbors, and they will become full partners on the system."

Mexico was not included in recent pacts that spelled out how the seven U.S. states on the Colorado River divide surpluses in wet years and share shortages in dry ones. The nation now will be

subject to the same criteria as the states, allowing Mexico for the first time to access additional water when it's available but reduce its deliveries when it's not.

Mulroy said the new agreement provides certainty to the various groups that share the Colorado and should help foster cooperation as the notoriously fickle river comes under increasing strain from overuse, drought and climate change.

"Not having to go into diplomatic standoff with Mexico is very important to us," she said.

Details of the pact are spelled out in an amendment to the decades-old treaty between the United States and Mexico that governs the Colorado and in several related agreements among the two nations and the seven river states.

The water authority is releasing the collection of documents to the public for the first time today to comply with Nevada's open meeting law.

Mulroy called it "the most significant addition to the binational agreement since the treaty was signed in 1944."

The largest benefit to Nevada is a potential boost in Lake Mead, which is the source of 90 percent of the Las Vegas Valley's drinking water supply.

"The more they store water in Mead, the more protected Mead becomes," Mulroy said of Mexico.

Boosting the reservoir is especially important now, she said, as work continues on a new intake pipe designed to keep water flowing to Las Vegas even if the lake drops below the level of the authority's two existing straws.

At a cost of more than \$800 million, the so-called third straw is slated for completion in summer 2014.

The international agreement would allow Mexico to leave as much as

1.5 million acre-feet of water in Lake Mead over five years. That's a one-year supply of Colorado River water for a nation that currently has no way to store much of its river allocation, Mulroy said.

The good news for us, she said, is that 1.5 million acre-feet could raise the surface of the lake by as much as 15 feet.

Nevada also stands to gain some water through the international agreement.

In exchange for its \$2.5 million investment in Mexican infrastructure, the water authority would get a one-time share of 23,700 acre-feet from the savings Mexico expects to see by lining its irrigation canals and upgrading the way crops are irrigated.

One acre-foot is enough to supply two average Las Vegas homes for one year.

The \$2.5 million would be paid to Mexico over three years starting in 2013.

The package of five interlaced agreements is now making the rounds so it can be approved by all the parties involved.

The two largest municipal water agencies in Arizona and California - the Central Arizona Water Conservation District and the Metropolitan Water District of Southern California - signed off on their portions earlier this month.

The water authority and the Colorado River Commission of Nevada are scheduled to approve it Thursday.

All that's left after that is for federal officials in both countries to sign the documents.

It took a long time to get here.

Back in 2007, when the seven Colorado River states agreed on rules for sharing shortages, water users in the United States called on federal officials to press Mexico on how it would participate.

What followed was more than three years of talks that involved the U.S. Departments of Interior and State, the International Boundary and Water Commission and representatives from individual states and water agencies on both sides of the border.

Mulroy and water authority Deputy General John Entsminger participated in dozens of meetings in Las Vegas, Denver, Phoenix, San Diego, El Paso, Texas, and Tijuana, Mexico.

"And countless, countless conference calls," Mulroy said.

"I've been on conference calls that started when I dropped my kids off at school and were still going when I had to go pick them up," Entsminger said.

"It's touchy," he said. "Anything that has to do with water is touchy, and anything international is touchy."

The talks took on new urgency after a magnitude 7.2 quake struck Mexicali on April 4, 2010, damaging almost 400 miles of canals used to irrigate 148,000 acres just south of the California border and deliver Colorado River water to the cities of Mexicali and Tijuana.

That led to a cross-border pact in late 2010 allowing Mexico to sock away more than 200,000 acre-feet of water so far in Lake Mead, as it continues to repair canals and pipelines damaged by the quake.

If the new, larger agreement produces results over the next five years, Mulroy said it could open the door to future water-sharing deals benefiting people in both countries.

One possibility is for Nevada to help pay for construction of desalination plants on the Baja coast in exchange for some of Mexico's Colorado River water, but any such exchange is still a long way off, she said.

Right now, Mulroy and company are just happy to have more help protecting Lake Mead.

For one thing, the lower the lake sinks, the closer it gets to the trigger

point for the authority's multibillion-dollar plan to pipe groundwater to Las Vegas from across eastern Nevada.

The surface of the lake now stands at 1,116 feet above sea level. If it drops to 1,075 feet, authority board members will cast their final vote on whether to proceed with the pipeline.

"That project is our protection from catastrophe. It's our safety net," Mulroy said. "As long as we can continue to defer it, we will."

Contact reporter Henry Brean at hbrean@reviewjournal.com or 702-383-0350.

Links referenced within this article

Henry Brean

<http://www.reviewjournal.com/about/print/rjstaff.html>

Find this article at:

<http://www.lvrj.com/news/landmark-water-pact-with-mexico-could-boost-lake-mead-178029051.html>

Uncheck the box to remove the list of links referenced in the article.

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6.a. - 2012 Colorado River Water Users Association Annual Conference

2012 CRWUA Annual Conference

Caesars Palace

The 2012 CRWUA Annual Conference will be held at **Caesars Palace** located at 3750 Las Vegas Boulevard South, Las Vegas, Nevada. From the moment you walk through the doors of Caesars Palace, you know you've arrived at the most prestigious resort in the world. Impeccable service. Luxury. All the little details that make the difference between an ordinary visit and a spectacular experience.

Monday, November 12, is the cut-off date for room reservations.

Room Reservation Information

Attendees must make reservations directly with Caesars Palace.

The first 300 room reservations are guaranteed in the Palace Tower at \$114. After the first 300 reservations, Palace Tower rooms may be reserved at \$143 or rooms in other parts of the hotel may be reserved at \$114.

[Click Here to Reserve Your Room](#)

Go online or call (866) 227-5944 before the group **cut-off date of Monday, November 12**. To receive the special CRWUA group rate, please provide the reservations operator with the **Conference Code of SCCRW2**.

2012 CRWUA Annual Conference

Tentative Agenda

“Water Through Partnerships: 90 Years of Sharing”

TENTATIVE AGENDA - SPEAKERS AND SESSIONS SUBJECT TO CHANGE

WEDNESDAY, DECEMBER 12

- 8:00 – 4:00 **Registration**
- 8:00 – 1:00 **Optional Tour (Additional Fee)**
Warm Springs Natural Area
Located approximately one hour north of Las Vegas, the Warm Springs Natural Area contains more than two dozen springs, which form the headwaters of the Muddy River, a Colorado River tributary. This protected area provides habitat for 28 listed and sensitive species, including the endangered Moapa dace.
- Upper Colorado River Commission Meeting**
- 9:30 – 12:30
- 1:00 – 2:15 **Colorado River 101 – A History of the Law of the River**
Justice Greg Hobbs, Colorado Supreme Court
- 2:00 – 5:00 **Exhibits Open**
- 2:30 – 5:00 **Legal Colloquium – “Federalism in Practice”**
Steven Abbott, Partner, Redwine and Sherrill
Bidtah Becker, Assistant Attorney General, Natural Resources Unit of the Navajo Nation Department of Justice
Nathan Bracken, Legal Counsel, Western States Water Council
John Echohawk, Executive Director, Native American Rights Fund
Peter Nichols, Of Counsel, Berg Hill Greenleaf & Ruscitti
Katherine Verburg, Field Solicitor, U.S. Bureau of Reclamation
- Management Colloquium – “Succession Planning and Workforce Development for Water Professionals”**
Cheryl Davis, Project Manager, San Francisco Public Utilities Commission
Glenda Dunn, Chair, American Water Works Association’s Section Workforce Activities Subcommittee
Melanie Fahrenbruch, Director of Conferences, Education and Section Services, American Water Works Association
Greg Ramon, Assistant General Manager of Maintenance, Central Arizona Project

THURSDAY, DECEMBER 13

- 6:30 – 4:00 **Registration**
- 7:00 – 7:00 **Exhibits Open**
- 7:30 **State Breakfasts**
- 9:00 **Welcome– George Arthur, CRWUA President**
Invocation/Flag Ceremony/Recognition of Armed Services Members
Business Meeting
Video: “Viewpoint of the Ten Tribes”
- 9:30 **Evolution of the Law of the River**
Pat Mulroy, General Manager, Southern Nevada Water Authority
- 10:00 **Basin States Study: Where Do We Go from Here?**
- 12:00 – 1:15 **Lunch and Entertainment**
Nakotah Larance, Native American hoop dancer
- BREAK and PRIZE DRAWING—
- 1:45 – 3:15 **Holes in the Compact: Partnerships Along the Way**
Katosha Nakai, Manager of Tribal Relations and Policy Development, Central Arizona Project
Jennifer Pitt, Director-Colorado River Project, Environmental Defense Fund
- BREAK and PRIZE DRAWING—
- 3:45 – 5:00 **Moving Water: Pipeline Projects**
Flaming Gorge Pipeline: Frank Jaeger, District Manager, Parker Water and Sanitation District
Lake Powell Pipeline: Ron Thompson, General Manager, Washington County Water Conservancy District
Navajo-Gallup Water Supply Project: TBA
- 5:00 – 7:00 **Percolation and Runoff**

FRIDAY, DECEMBER 14

- 7:00 – 9:30 **Exhibits Open**
- TBD **NOAA**
- TBD **Bureau of Reclamation Report and Discussion**
Michael Connor, Commissioner, U.S. Bureau of Reclamation
- TBD **U.S. Secretary of the Interior (invited)**
Adjournment

1:00 – 5:00

Optional Tour (Additional Fee)

Las Vegas Wash

The Las Vegas Wash carries the valley's excess water – an average of more than 150 million gallons a day – through acres of wetlands on its way to Lake Mead. The Wash provides habitat to about 300 fish and wildlife species and more than 200 species of upland, riparian and wetland plants. Stabilization and revegetation efforts in the Wash also help protect Lake Mead water quality.

THURSDAY, DECEMBER 13 - SPOUSE AND GUEST ACTIVITIES

8:00

Continental Breakfast and Prize Drawing

Celebrating Native American Culture

So' Dine'e, or star constellations - Char Tullie

Native American clothing - Genevieve Hardy

Jewelry and pottery - Steve Larance and Nizhoni Denipah