

COLORADO RIVER BOARD OF CALIFORNIA

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November 30, 2009

**NOTICE OF SPECIAL 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 Executive Director of the Colorado River Board of California, that a special meeting of the Board Members is to be held as follows:

Date: December 9, 2009, Wednesday
Time: 3:00 p.m.
Place: Ballroom Roman I
Caesars Palace Hotel
3570 Las Vegas Boulevard, South
Las Vegas, NV 89109-8924
TEL: (702) 731-7222, FAX: (702) 731-7172
Hotel Reservation: 1-886-227-5944

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: Gerald R. Zimmerman, 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.


Gerald R. Zimmerman
Executive Director

attachment: Agenda

Special Meeting
COLORADO RIVER BOARD OF CALIFORNIA
December 9, 2009, Wednesday
3:00 p.m.

Ballroom Roman I
Caesars Palace Hotel
3570 Las Vegas Boulevard, South
Las Vegas, NV 89109-8924

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 November 12, 2009,
Consideration and Approval (**Action**) TAB 1
 - b. Approval of Year 2010 Colorado River Board Meeting Schedule (**Action**) TAB 2
4. Agency Managers Meetings
Report from the Executive Director
5. Protection of Existing Rights
 - a. Colorado River Water Report(s) TAB 3
Report from Board Staff 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 from Board members on current water supply and use conditions
 - c. Colorado River Operations TAB 5
Report(s) from the Executive Director
 - 2010 Annual Operating Plan for Colorado River System Reservoirs (2010 AOP)
 - The Metropolitan Water District of Southern California's (MWD) Response to Southern Nevada Water Authority's Request to Store Unused Apportionment in 2009
 - Status of Arizona Water Banking Authority Regarding Storage of Intentional Created Unused Apportionment (ICUA) for Southern Nevada Water Authority and MWD's Revised Recovery Request of Interstate Underground Storage Credits in 2009
 - Inadvertent and Overrun Payback Procedures

Agenda (continued)

- d. Basin States Discussions
 - Report(s) from the Executive Director
 - Joint Cooperative Projects and Programs with Mexico
 - e. Colorado River Environmental Issues
 - Report(s) from the Board Staff
 - Status of the Grand Canyon Trust vs. United States Lawsuit
6. Reports
- a. Washington D.C. and Congressional Updates (Mr. Peter Carlson)
 - b. Colorado River Basin Salinity Control Forum and Programs (Mr. Jack Barnett)
7. Executive Session
- An Executive Session may be held by the Board pursuant to provisions of Article 9 (commencing with Section 11120) of Chapter 1 of Part 1 of Division 3 of Title 2 of the Government Code and Sections 12516 and 12519 of the Water Code to discuss matters concerning interstate claims to the use of Colorado River System waters in judicial proceedings, administrative proceedings, and/or negotiations with representatives from other states or the federal government.
8. Other Business
- a. Next Board Meeting: Regular Meeting
 - January 13, 2010, Wednesday, starting 10:00 a.m.
 - Holiday Inn Ontario Airport
 - 2155 East Convention Center Way
 - Ontario, CA 91764-4452
 - TEL: (909) 212-8000, FAX: (909) 418-6703

3.a. - Approval November 12, 2009, Board Meeting Minutes

Minutes of Special Meeting
COLORADO RIVER BOARD OF CALIFORNIA
Thursday, November 12, 2009

A Special Meeting of the Colorado River Board of California (Board) was held in the Vineyard Room, at the Holiday Inn Ontario Airport, at 2155 East Convention Center Way, Ontario, California, Thursday, November 12, 2009.

Board Members and Alternate Present

Dana B. Fisher, Jr. Chairman

John V. Foley

Terese Marie Ghio

Russel Kitahara

W. D. Bill Knutson

Henry Merle Kuiper

James B. McDaniel

Jeanine Jones, Designee

Department of Water Resources

Board Members and Alternate Absent

James Cleo Hanks

John W. McFadden

John Pierre Menvielle

David Elms, Designee

Department of Fish and Game

Others Present

Steven B. Abbott

James H. Bond

Dan Charlton

John P. Carter

Dave Fogerson

Gil Granito

William J. Hasencamp

Mark L. Johnson

Michael L. King

Thomas E. Levy

Jan P. Matusak

Halla Razak

Steven B. Robbins

John L. Scott

Tina Shields

Ed W. Smith

Eli Underwood

Joseph A. Vanderhorst

Bill D. Wright

Abbas Amirteymoori

J.C. Jay Chen

Christopher S. Harris

Michael W. Hughes

Lindia Y. Liu

Mark Van Vlack

Gerald R. Zimmerman

CALL TO ORDER

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

OPPORTUNITY FOR THE PUBLIC TO ADDRESS THE BOARD

Chairman Fisher 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, Chairman Fisher moved to the next agenda item.

ADMINISTRATION

Approval of Minutes

Chairman Fisher requested the approval of the September 9th meeting minutes. Mr. Knutson moved the September 9th minutes be approved. Mr. Kuiper seconded the motion. Unanimously carried, the Board approved the September 9th meeting minutes.

Proposed 2010 Board Meeting Schedule

Chairman Fisher reported that included in the Board folder is the proposed 2010 calendar year Board meeting schedule. Action on the 2010 meeting schedule is expected at the December Board meeting.

AGENCY MANAGERS' MEETING

Mr. Zimmerman reported that the Agency Managers are scheduled to meet after the November Board meeting to discuss: Inadvertent Overrun and Payback Procedures (IOPP) as applied within California; the Intentionally Created Surplus (ICS) creation and delivery schedules to be used in a planned comprehensive modeling effort; and the increasing interest in using Lower Colorado Water Supply Project (LCWSP) water for use in potential solar energy development projects along the Colorado River in California.

PROTECTION OF EXISTING RIGHTS

Colorado River Water Report

Mr. Harris reported that the November Board meeting will be Mr. Abbas Amirteymoori's last Board meeting. Mr. Harris expressed to the Board how important Mr. Amirteymoori's service to the Board has been and that Mr. Amirteymoori will be missed.

Mr. Harris reported that from October 1st to November 2nd, precipitation in the Basin was about 119 percent of normal. There has been intermittent snow, but no measurable snowpack. The observed April through July unregulated flow into Lake Powell for 2009 was 7.804 million acre-feet (maf) or 98 percent of capacity. The observed 2009 water year unregulated flow into Lake Powell was 10.633 maf, or 88 percent of capacity.

Mr. Harris reported that the reservoir storage in Lake Powell was 15.243 maf, or 63 percent of capacity. The water surface elevation was 3,633.4 feet. The storage in Lake Mead

was 10.899 maf, or 42 percent of capacity. The water surface elevation was 1,093.3 feet. Total System storage was 33.831 maf, or 57 percent of capacity. Last year at this time, there was 33.656 maf of water in storage, or 57 percent of capacity. Total System storage was about the same as last year, however last year storage in Lake Powell was less than this year and Lake Mead was greater than this year.

Mr. Harris reported that Reclamation's estimated consumptive use (CU) for the State of Nevada is under its entitlement of 300,000 acre-feet (270,000 acre-feet); and for Arizona, the CU is projected to be slightly under its basic entitlement of 2.8 maf (2.789 maf); and for California the CU is also projected to be under its apportionment of 4.4 maf (4.221 maf). The total projected CU in the Lower Basin is expected to be about 7.280 maf.

Mr. Harris reported that storage in the Basin has remained within a few million acre-feet of 35 maf since 2006. Reclamation's 24-month study forecasts that the storage in the Colorado River Basin to stay within the recent amounts.

State and Local Water Reports

Mr. Harris reported that precipitation in southern California at selected sites for the first month (October) of the water year show that the central coast and Los Angeles area picked up two to nearly four inches, overwhelming the normal to date precipitation. Such storms usually occur later in the season. Percent of normal for October is orders of magnitude greater than normal (400 to 700 percent of normal), but there are still eleven months to go in the season. The San Diego, Blythe and Imperial gages show no precipitation for October.

Mr. Harris reported that the graph of water storage in Lake Oroville showed that there was about a million acre-feet temporary recovery in Lake Oroville during the winter of 2009 but that storage is dropping again, nearing about a million acre-feet in storage.

Mr. Harris reported on the storage conditions of the State Water Project (SWP) in California. Water storage in the SWP north of the delta was about 1.4 maf, or 40 percent of capacity. Storage south of the delta was about 0.9 maf or 51 percent of capacity. Total storage in the SWP was about 2.387 maf or about 43 percent of capacity. The SWP is expected to deliver 40 percent of Table A Entitlements.

Mr. John Scott, of The Metropolitan Water District of Southern California (MWD), added that the storage in Lake Oroville, should be listed as 1.25 maf, instead of 1.37 maf.

Ms. Jeanine Jones, of the California Department of Water Resources (DWR), reported that DWR sponsored the "Winter Outlook Workshop" that is available online via webcast at <http://cawater.rmxpres.com/webcast/data/dwrwinteroutlook11032009/msh.htm>. Ms. Jones reported that climate scientist and research meteorologist reported and discussed science and skill in predicting the 2010 winter forecast. The long range forecast is based on correlations found between ocean-atmosphere patterns such as the El Nino-Southern Oscillation (ENSO) cycle, the Pacific Decadal Oscillation, and Madden-Julian Oscillation with observed climate conditions. The presenters at the workshop were cautiously optimistic for a water year closer to average hydrologic conditions, potentially wetter than the past two critically dry years. Given the dry antecedent conditions and the flow restrictions in the delta, it will be some time before the SWP reservoirs are refilled.

Mr. Foley, of The Metropolitan Water District of Southern California (MWD), reported that the combined reservoir storage of Diamond Valley Lake, Lake Mathews, and Lake Skinner as of November 1st was about 502,400 acre-feet, or 48 percent of capacity. Storage in Diamond Valley Lake was about 347,500 acre-feet, or 43 percent of capacity. The storage in Diamond Valley Lake has not been this low for ten years. There was a drop of about 45,000 acre-feet from last month. The Colorado River Aqueduct was closed for about 29 days for cleaning. About 90 miles of canal were cleaned. SWP water, when available, has been delivered to Diamond Valley Lake at the rate of about 640 cubic feet per second (cfs). Mr. Scott added that the delivery rate has recently been increased to 850 cfs.

Mr. McDaniel, of the Los Angeles Department of Water and Power (LADWP), stated that there was nothing to report as it was still early in the water year. Regarding Eastern Sierra climate conditions, the winter snow season is just beginning.

Colorado River Operations

2010 Annual Operating Plan for Colorado River System Reservoirs

Mr. Zimmerman reported the final consultation meeting of the Colorado River Management Work Group regarding the 2010 Annual Operating Plan (2010 AOP). The Secretarial determinations remain the same as discussed at previous Board meetings. Reclamation has forwarded the 2010 AOP to the Department of the Interior, and the Secretary is expected to announce the approval of the 2010 AOP in December 2009.

Yuma Desalting Plant Pilot Project Status

Mr. Zimmerman reported that on September 30th, Reclamation released a "Finding of No Significant Impact" (FONSI) regarding the environmental impacts associated with the proposed pilot run of the Yuma Desalting Project (YDP). The proposed pilot run is scheduled to be initiated in early 2010. The YDP would operate from one year to 18 months at one-third capacity. The YDP would operate at a rate of about 60 acre-feet of product water per day. The product water would be blended with drainage water to produce about 29,000 acre-feet of water. The product water would be discharged to the Colorado River during the pilot run. The product water would be divided, via exchange, among the entities funding the pilot run of the YDP.

Mr. Zimmerman reported that the Upper Colorado River Commission, on behalf of the Upper Basin states, submitted a letter in support of the pilot run of the YDP. Mr. Zimmerman reported that the "Exhibit P" to the Lower Basin Intentionally Created Surplus Forbearance Agreement has been executed and submitted to Reclamation. The FONSI, Upper Colorado River Commission's letter, and the executed "Exhibit P" were included in the Board folder.

SNWA Notice of Availability of Unused Apportionment

Mr. Zimmerman reported that the Board folder included copies of letters from the Southern Nevada Water Authority (SNWA), to Reclamation and MWD, notifying Reclamation that the SNWA intends to make 60,000 acre-feet of Nevada's unused basic apportionment available for storage by MWD during 2009 and to be made available to SNWA at a later date.

CAP Letter to Reclamation Regarding ICS & ICUA Procedures and Guidelines

Mr. Zimmerman reported that the Central Arizona Project (CAP) sent a letter to Reclamation requesting procedures and guidelines be developed as soon as possible related to the creation and accounting of Intentionally Created Surplus (ICS) and Intentionally Created Unused Apportionment (ICUA). This request was driven by the recent requests by SNWA to have MWD store 60,000 acre-feet, as well as CAP storing 20,000 acre-feet on behalf of SNWA.

Inadvertent Overrun and Payback Procedures

Mr. Zimmerman reported that Reclamation has been working on developing the Inadvertent Overrun and Payback Procedures (IOPP) over the past few months. Two issues have arisen: The ability of an entity to payback an overrun of another entity; and the ability to delay payback if it is under a certain threshold or within a certain limit or certain range of the entities apportionment. These and other items will be discussed at the Agency Managers' meeting following the Board meeting.

BASIN STATES DISCUSSIONS

Reclamation Selects Three River Basins for Inclusion in "Basin Study Program"

Mr. Zimmerman reported that Reclamation selected three river basins to inaugurate the Reclamation's new Basin Study Program. The three basins selected include: the Colorado River Basin Water Supply and Demand Study (Planned Study); the Yakima River Basin Study and Associated Basin Restoration Implementation Plan; and the Modeling for the Future of the Milk and St. Mary River Systems in north-central and southern Montana. The Colorado River Basin Water Supply and Demand Study will be funded with matching funds from Reclamation and the seven Basin states. The cost of the Planned Study is about two million dollars over about two years. Mr. Zimmerman reported that several groups or subcommittee's had been formed to examine various components of the Planned Study. One of the subcommittee's has been working on the Memorandum of Agreement and the Contributed Funds Agreement. After several conference calls and two meetings, those components are nearing completion. A meeting is scheduled for November 16th to bring all of the components together for a draft of the Plan of Study as well as the funding agreement. The draft is scheduled to be brought before the Board for consideration at its January Board meeting. The goal is to have all of the documents completed and executed by the end of January 2010.

The Binational Discussions

Mr. Zimmerman reminded the Board of the proposals that Mexico had made during the August 4th and 5th Binational Workshop. Mexico proposed: specific projects for the creation and use of Intentionally Created Mexico Apportionment (ICMA); environmental need in Mexico along the Colorado River and the Delta and how the water for those needs can be met and how they should be shared; binational participation in conservation projects in Mexico; and joint investment in desalination projects in Mexico. Mr. Zimmerman reported that at the follow-up

Binational meeting held on October 14th and 15th, the United States responded that there needs to be further modeling and analysis of the projects and the impacts that may occur before the U.S. can negotiate the specifics of any proposal. The U.S. is willing to move forward on a small environmental restoration project possibly in the Limitrophe Section of the Colorado River and a small conservation project within an agricultural district as demonstration projects to verify and quantify the efficacy for potential larger efforts.

Mr. Zimmerman described the Flow Chart that depicts the process steps for completing the projects included in the Binational discussions. The next step is to include the key concepts proposed for the Modeling/Analysis associated with the specific projects jointly proposed by the U.S. and Mexico. Mr. Zimmerman reported that a Binational modeling group was formed at the October Binational meeting. The modeling group will be working with several scenarios, including: Mexico's proposal; the U.S. scenario modeled in the Interim Guidelines; Mexico sharing in surpluses; and others. The U.S. Technical Group has had several conference calls and met on November 9th to discuss the modeling assumptions to be used.

Ms. Halla Razak added that it has been difficult for Mexico to discuss the concept of shortage sharing. However with the Modeling/Analysis effort now underway, Mexico hopes that quantitative results of specific projects scenarios and the benefits of management possibilities could make it palatable for Mexico to consider and engage in shortage management. Chairman Fisher added that that was especially true since the Modeling/Analysis effort will include Mexico.

Mr. Zimmerman reported that the U.S./Mexico Modeling Group is scheduled to meet on November 18th and 19th; then again on January 13th and 14th of 2010. The U.S. Technical Group is scheduled to meet December 8th and January 8, 2010. The Basin States Principals are scheduled to meet December 11th and January 28, 2010. The next Binational meeting is scheduled to be held January 28th and 29th of 2010.

Navajo-Gallup Project Update

Mr. Zimmerman reported that on October 1st, Secretary Salazar issued an order delegating authority to the Commissioner of Reclamation related to implementation of elements of the Navajo-Gallup Water Supply Project pursuant to Title X of Public Law 111-11. The Secretarial Order authorizes Reclamation to design, construct, operate, and maintain the Project; negotiate and execute cost-sharing agreements, settlement contracts; and develop repayment obligation among the various Project proponents.

Environmental Issues

Secretary of the Interior's Letter to Colorado River Board Regarding the Glen Canyon Dam Adaptive Management Program

Mr. Harris reported that Secretary Salazar responded to the Basin states' letter of July 27th. Secretary Salazar reassured the Basin states that the Department of the Interior (Interior) is committed to the existing collaborative processes currently managing Colorado River System (System). The Interior will continue to operate the System consistent with the Interim Guidelines and each year's Annual Operation Plan. In addition, Secretary Salazar has charged

Assistant Secretary Ms. Anne Castle, as the Interior's Designee to the Adaptive Management Work Group (AMWG), to coordinate among the various Interior Department Bureaus to prioritize and focus Interior on the key issues. Secretary Salazar's letter stated that Glen Canyon Dam will continue to be operated under the 2008 Experimental Plan through 2012.

Grand Canyon Trust's Letter to Secretary of the Interior Regarding Glen Canyon Dam Annual Operating Plan and Colorado River Management Work Group

Mr. Harris reported that the Grand Canyon Trust (GTC) sent a letter on October 23rd recommending that the Colorado River Management Work Group be chartered under the Federal Advisory Committee Act, include more stakeholders, and be more transparent to the public. The GTC letter expressed concern that current flows from Glen Canyon Dam modulated to maximize power generation are stripping sediments from the Colorado River below Glen Canyon Dam and those sediments could be better conserved if the Secretary utilized "Equal Monthly Volumes" in developing an annual operating plan at Glen Canyon Dam to conserve the downstream sediment resources.

Supplement to the 2008 Final U.S. Fish and Wildlife Service Biological Opinion for the Operation of Glen Canyon Dam

Mr. Harris reported that pursuant to the May 26th order of the U.S. District Court, in the lawsuit *Grand Canyon Trust v. U.S.*, et al., the U.S. Fish and Wildlife Service (USFWS) released a supplemental biological opinion to its 2008 biological opinion for Glen Canyon Dam operations. The USFWS reiterated, in significant detail, that the Modified Low Fluctuating Flow alternative does not violate the Endangered Species Act. The USFWS also stated that the current 2008 experimental plan was adequate and should continue to be implemented through 2012. The USFWS, in the supplemental Biological Opinion, believes that Reclamations activities, to date, have actually benefitted the listed species in the Grand Canyon.

Grand Canyon Trust v. United States Lawsuit

Mr. Michael W. Hughes, of the California Attorney General's Office, reported there was a status conference held earlier this week that the court hopes to have a briefing on the merits of the case as early as January or February 2010. The administrative record could be filed as early as the first week of December 2009. Mr. Hughes reported that the Basin states' legal representatives will be working to develop a briefing schedule for the case.

WATER QUALITY

Colorado River Basin Salinity Control

Mr. Harris reported that the Colorado River Basin Salinity Control Forum (Forum) and the Advisory Council met in Phoenix, Arizona on October 26-28, 2009. The Colorado River Basin Salinity Control Forum Work Group (Work Group) met October 26th also in Phoenix. The Work Group discussed the addition of two additional areas for salinity control: 1) Ouray County to Lower Gunnison area consists of about 15,000 acres and the program would reduce the salinity loading rate from 2.8 tons per acre to 2.0 tons per acre; 2) The Green River area consists of about 4,000 acres and the program could reduce the salt loading by 7,000 tons per year in that region. The Work Group discussed the state-of-knowledge on salt loading and the total

dissolved solids (TDS) in the mainstream river near Moab, the TDS varies from 170 parts per million (ppm) to as high as 1,100 ppm. The Utah Department of Environmental Quality and the U.S. Geological Survey (USGS) are planning to research all available data and determine the source of the changes in TDS in the mainstream river near Moab and report back to the Forum. Mr. Harris reported that the Work Group is continuing to work on refining "unquantified damages" related to salinity impacts and salinity control. The Work Group expects to have a draft report by mid-2010, and anticipates inclusion of the updated analysis in the 2011 Triennial Review report. The Work Group discussed the proposed schedule and timeline for the 2011 Triennial Review report. The report may require new modeling runs and require updating the National Pollutant Discharge Elimination System permit list for the seven Basin states. The Draft Triennial Review report is expected to be available for Forum review in spring 2011.

Mr. Harris reported that the Advisory Council received updates from the Federal agencies; Reclamation, Bureau of Land Management, USGS, National Resource Conservation Service (NRCS)/U.S. Department of Agriculture (USDA), U.S. Fish and Wildlife Service, and the International Boundary and Water Commission. The Advisory Council discussed the federal agency's activities and their proposed budgets. The Advisory Council recommended the Secretary's of the USDA and the Interior to fund the salinity control activities of Reclamation at \$17.5 million, the NRCS/USDA salinity control activities at \$20 million, and the Bureau of Land Management salinity control activities at \$1.5 million. Mr. Harris reported that the amendments to the Colorado River Basin Salinity Control Act, that were passed in 2008, authorized the creation of the "Basin States Program" and expenditures can now be taken directly from the Upper and Lower Basin funds and used for salinity control.

Mr. Harris also reported that the Forum meeting received reports from the Work Group and Advisory Council. Reclamation's Regional Directors Ms. Lorri Gray and Mr. Larry Walkoviak reported to the Forum on Reclamation's salinity control activities. Reclamation discussed the status of the Yuma Desalting Plant Pilot Project. Reclamation also provided the status of the Lower Basin Fund and current projections. There was also a report on the upgraded Paradox Project well-head.

Mr. Harris reported that USGS has developed and is improving a modeling tool referred to as SPARROW. The new program has been used in other parts of the country to interpret the water-quality monitoring data over a region. The USGS SPARROW program is part of the National Water-Quality Assessment Program and is to be applied to the Colorado River Basin.

Mr. Harris reported that the next Forum meeting is scheduled for June 2-4, 2010, in Cheyenne, Wyoming.

Mr. Amireteymoori added that with the creation of the Basin states program the role of the Forum may change. Mr. Zimmerman mentioned that a committee was formed to look into the situation and he discussed some possible scenarios. There was also some discussion on how salinity control projects were selected and the minimum criteria for a project to be considered for inclusion into the program.

Finally, Chairman Fisher acknowledged and thanked Mr. Amireteymoori for his past reports and service to the Board and wished him well in his future endeavors.

OTHER BUSINESS

Next Board Meeting

Chairman Fisher announced that the next meeting of the Colorado River Board will be held on Wednesday, December 9, 2009, at 3:00 p.m., at Caesars Palace Hotel, Las Vegas, Nevada, in conjunction with the annual conference of Colorado River Water Users Association.

There being no further items to be brought before the Board, Chairman Fisher asked for a motion to adjourn. Mr. Kuiper moved the Board meeting be adjourned. Mr. Knutson seconded the motion, and with unanimous approval, the Board meeting was adjourned at 11:36 a.m. on November 12, 2009.

Gerald R. Zimmerman
Executive Director

DRAFT

3.b. - Approval of 2010 Colorado River Board Meeting Schedule

COLORADO RIVER BOARD OF CALIFORNIA
Calendar Year 2010 Meetings

December 9, 2009

Board Meeting Date

Other Meetings and Events

January 13	January 1: New Year's Day Holiday January 18: Martin Luther King Jr. Day Holiday
February 10	February 15: President's Day Holiday
March 10	March 22-26: CMUA 78th Annual Conference, Monterey Plaza Hotel & Spa, Monterey, CA March 22-24: NWRA Federal Water Seminar, The Washington Court Hotel, Washington, D.C. March 31: Cesar Chavez Day Holiday
April 14	
May 5 (Special Meeting in conjunction with ACWA Spring Conference)	May 4-7: ACWA Spring Conference, Portola Plaza & Marriott Hotels, Monterey, CA May 31: Memorial Day Holiday
June 9	
July 14	July 5: Independence Day Holiday July 28-30: NWRA Western Water Seminar, Snow King Lodge, Jackson, WY
August 11	August 26-27: UWII 17th Annual So. California Urban Water Conference, Hilton Mission Bay Resort, San Diego, CA
September 15	September 6: Labor Day Holiday
October 13	
November 10	November 10-12: NWRA 79th Annual Conference, Hotel Del Coronado, Coronado, CA November 11: Veteran's Day Holiday November 25-26: Thanksgiving Day Holiday November 30-December 3: ACWA Fall Conference, Renaissance Esmeralda and Hyatt Grand Champions, Indian Wells, CA
December 15 (Special Meeting in conjunction with CRWUA Conference)	December 15-17: CRWUA 65th Annual Conference, Caesars Palace, Las Vegas, Nevada December 25: Christmas Day Holiday

2010

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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)474-8258

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.

5.a. - Colorado River Water Reports

**SUMMARY WATER REPORT
COLORADO RIVER BASIN
November 30, 2009**

RESERVOIR STORAGE (as of November 29)	November 2, 2009					
	MAF	ELEV. IN FEET	% of Capacity	MAF	ELEV. IN FEET	% of Capacity
Lake Powell	14.988	3,631.2	62	15.243	3,633.4	63
Flaming Gorge	3.300	6,028.7	88	3.376	6,030.2	90
Navajo	1.266	6,053.4	75	1.282	6,054.7	76
Lake Mead	10.925	1,093.6	42	10.899	1,093.3	42
Lake Mohave	1.490	635.2	82	1.463	634.1	81
Lake Havasu	0.574	447.7	93	0.599	448.0	97
Total System Storage	33.512		56	33.831		57
System Storage Last Year	33.419		56	33.656		57

		October 15, 2009	
WY 2010 Precipitation (Basin Weighted Avg) 10/01/09 through 11/30/09	76 percent (4.0")	119 percent (2.9")	
WY 2010 Snowpack Water Equivalent (Basin Weighted Avg) on day of 11/30/09 (Above two values based on average of data from 116 sites.)	NA (NA)	NA (NA)	
		Observed	
		October 15, 2009	
November 16, 2009 Final Observed Unregulated Lake Powell Inflow	MAF	% of Normal	MAF % of Avg.
2009 April through July unregulated inflow observed	7.804	98 %	7.804 98%
2009 Water Year observed	10.633	88 %	10.633 88%

USBR Forecasted Year-End 2009 and 2008 Consum. Use, November 30, 2009 a. MAF

	2009		2008	
	Diversion	Return =	Net	
Nevada (Estimated Total)	0.461	0.213	0.248	0.269
Arizona (Total)	3.672	0.839	2.833	2.777
CAP Total			1.662	1.562
Az. Water Banking Authority			0.134	0.214
OTHERS			1.171	1.216
California (Total) b./	5.056	0.671	4.385	4.502
MWD			1.111	0.906
3.85 Agriculture			<u>Forecasted</u>	<u>Estimated</u>
IID c./	2.847	-0.263	2.584	2.825
CVWD d./	0.339	-0.030	0.309	0.299
PVID	0.289	0	0.289	0.376
YPRD	0.038	0	0.038	0.045
Island e./	0.006	0	0.006	0.007
Total Ag.	3.519	-0.293	3.226	3.552
Others			0.048	0.044
PVID-MWD following to storage			0	0
Arizona, California, and Nevada Total f./	9.189	1.723	7.466	7.549

- a./ Incorporates August USGS monthly data and 75 daily reporting stations which may be revised after provisional data reports are distributed by USGS. Use to date estimated for users reporting monthly and annually.
- b./ California 2009 basic use apportionment of 4.4 MAF has been adjusted for approved paybacks for 01-02 obligations (3,751 AF), payback of Inadvertent Overrun and Payback Policy overruns (1,349 AF), (25,000 AF) ICS by IID, MWD recovery of interstate underground storage from Arizona (30,000 AF). Plus delivery of System Efficiency ICS (34,000 AF), and 2,750 Af Drop 2 Construction Water.
- c./ 0.105 MAF conserved by IID-MWD Agreement as amended in 2007: 90,000 AF for SDCWA under the IID-SDCWA Transfer Agreement as amended, 60,000 AF of which is being diverted by MWD; 8,000 AF for CVWD under the IID-CVWD Acquisition Agreement, 59,670 AF from the All-American Canal Lining Project.
- d./ 26,000 acre-feet conserved by the Coachella Canal Lining Project and 3,751 AF of payback.
- e./ Includes estimated amount of 6,136 acre-feet of disputed uses by Yuma Island pumpers and 0 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

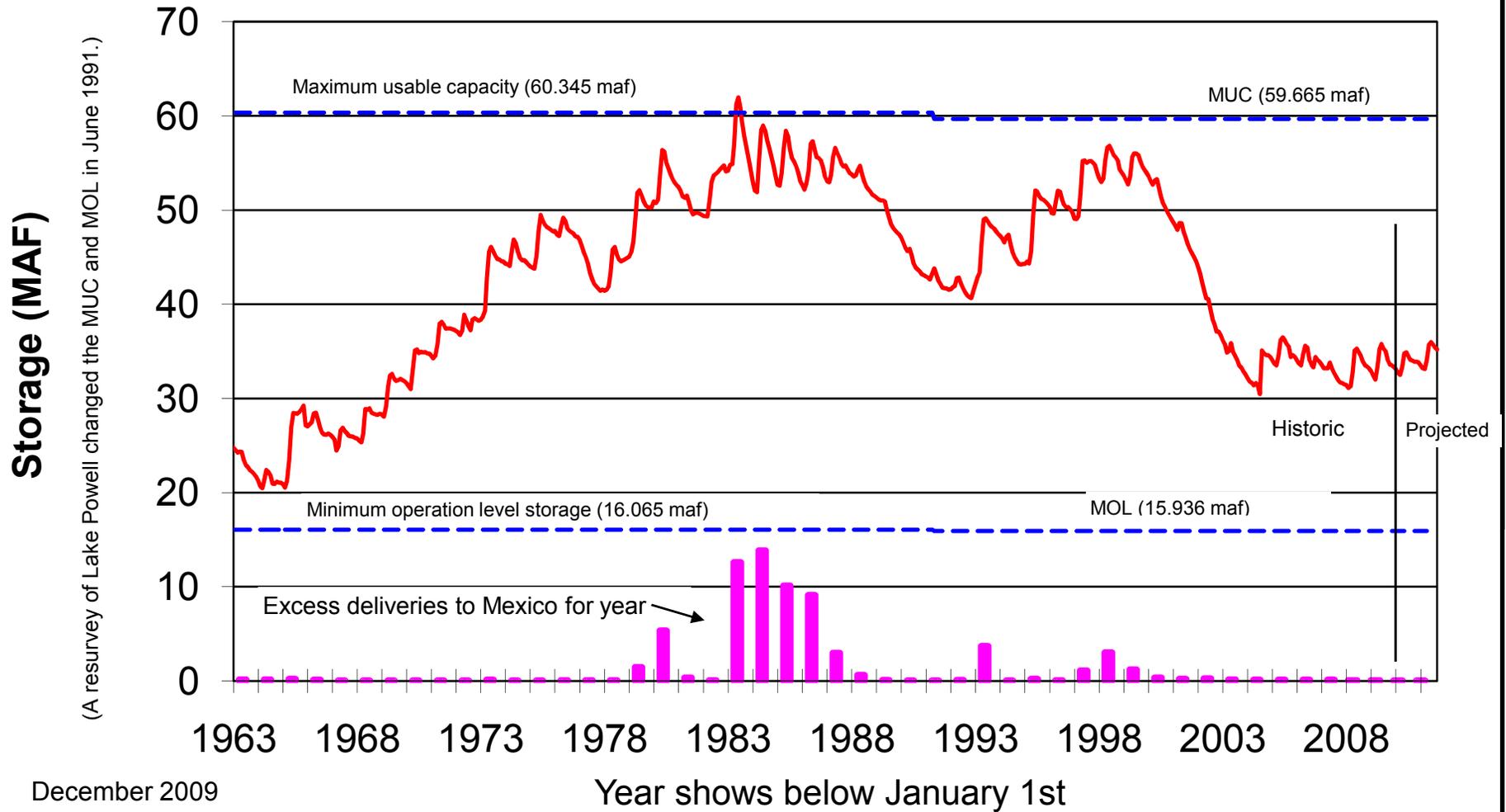
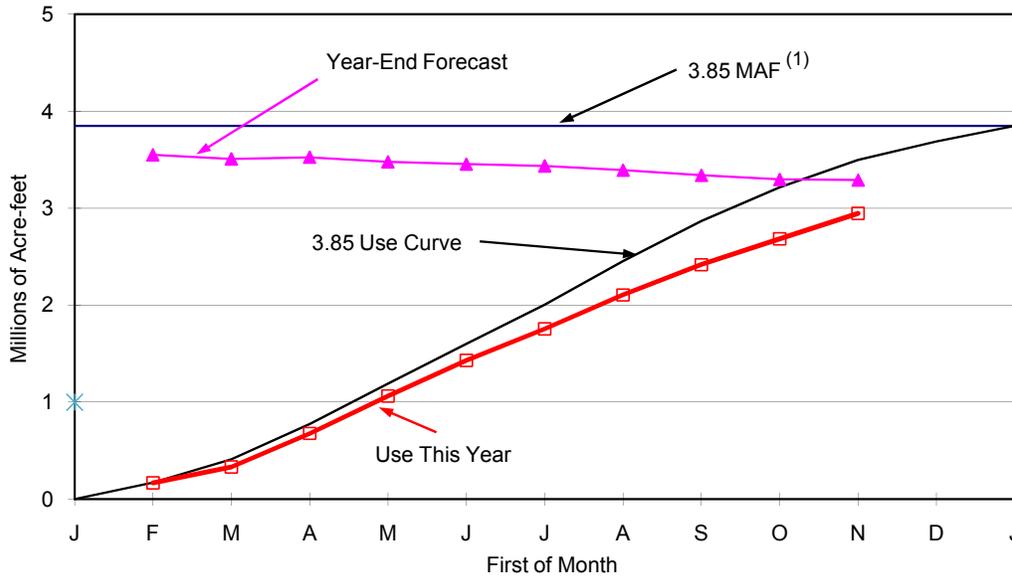


FIGURE 1
DECEMBER 1, 2009 FORECAST YEAR-END COLORADO RIVER WATER USE
BY THE CALIFORNIA AGRICULTURAL AGENCIES



Forecast of Colorado River Water Use by the California Agricultural Agencies (Millions of Acre-feet)			
Month	Use as of First of Month	Forecast of Year End Use	Forecast of Unused Water (1)
Jan	0.000	-----	-----
Feb	0.168	3.551	0.019
Mar	0.332	3.509	0.061
Apr	0.678	3.526	0.044
May	1.064	3.478	0.092
Jun	1.430	3.454	0.116
Jul	1.755	3.437	0.133
Aug	2.106	3.392	0.178
Sep	2.418	3.340	0.230
Oct	2.685	3.297	0.273
Nov	2.948	3.292	0.278
Dec			
Jan			

(1) The forecast of unused water is based on the availability of 3.600 MAF under the first three priorities of the water delivery contracts. This accounts for the 85,000 af of conserved water available to MWD under the 1988 IID-MWD Conservation agreement and the 1989 IID-MWD-CVWD-PVID Agreement as amended; 60,000 af of conserved water available to SDCWA under the IID-SDCWA Transfer agreement as amended being diverted by MWD; 26,000 af of conserved water available to SDCWA and MWD as a result of the Coachella Canal Lining Project; 59,670 af of water projected to be available to SDCWA and MWD as a result of the All-American Canal Lining Project; 14,500 af of water IID and CVWD are forbearing to permit the Secretary of the Interior to satisfy apportion of Indian and miscellaneous present perfected rights use; 3,751 af of California Agricultural water paybacks; and 25,000 af of Intentionally Created Surplus by IID 2007. As USBR is charging disputed uses by Yuma island pumpers to Priority 2, the amount of unused water has been reduced by those uses -6,136 af. The CRB does not concur with USBR's viewpoint on this matter.

COLORADO RIVER BOARD OF CALIFORNIA

October 28, 2009

COLORADO RIVER WATER REPORT

The following report summarizes data obtained from provisional reports of the U.S. Geological Survey, U.S. Bureau of Reclamation, International Boundary and Water Commission, and Imperial Irrigation District.

I. Active Surface Storage^{1/} in Reservoirs at end of Month (Thousand Acre-feet).

September 2009

<u>Upper Basin</u>	<u>Storage</u>	<u>Elevation in feet</u>	<u>% of Capacity</u>	<u>Change During Month</u>	<u>Change from 2008</u>
Lake Powell	15,463	3,635.4	64%	-247	954
Flaming Gorge	3,394	6,031.2	91%	-54	370
Fontenelle	276	6,496.8	80%	-30	22
Navajo	1,314	6,057.3	77%	-33	-5
Blue Mesa	651	7,498.7	78%	-59	1
Morrow Point	107	7,146.9	91%	-6	-7
Crystal	<u>15</u>	<u>6,746.6</u>	<u>84%</u>	<u>0</u>	<u>1</u>
Sub-total	21,220		68%	-429	1,337
<u>Lower Basin</u>					
Lake Mead	10,933	1,093.7	42%	-5	-1,080
Lake Mohave	1,501	635.6	83%	-168	-84
Lake Havasu	<u>564</u>	<u>447.2</u>	<u>91%</u>	<u>-20</u>	<u>-20</u>
Sub-total	12,998		45%	-192	-1,184
Upper and Lower Basin Total	34,218 ^{2/}		57%	-621	153

^{1/} Figures shown do not include reservoir dead storage.

^{2/} Storage above minimum operation level is 34,218 - 15,936 = 18,282 thousand acre-feet. Minimum operation level (15,936 thousand acre-feet) is defined as the sum of active content at minimum power pool plus minimum active content required to make surface diversions at Lake Havasu and Navajo Reservoir.

II. Upper Basin Discharge (Acre-feet).

<u>Station</u>	Meas. Flow September <u>2009</u>	<u>Cumulative Flow</u> October thru <u>September</u>	<u>Meas. Flow Adjusted for CRSP Surface Storage Changes</u>	
			September <u>2009</u>	% of Sep. 87- year average (1922-2008 water years)
Green River at Green River, Utah	152,000	3,610,800	98,700	71%
Colorado River near Cisco, Utah	237,500	5,611,100	172,500	85%
San Juan River near Bluff, Utah	36,100	928,100	2,900	3%
At Lee Ferry (Compact Point)	613,800	8,406,200	215,500	50%

III. Lower Basin Discharge (Acre-feet).

<u>Station</u>	September <u>2009</u>	<u>Cumulative Flow</u> October thru <u>September</u>
Below Hoover Dam	574,100	9,211,600
Below Davis Dam	801,100	9,767,000
Below Parker Dam	517,100	6,503,500
Above Imperial Dam	410,200	5,377,900

IV. Consumptive Use of Lower Colorado River Mainstream Water (Acre-feet).
September, 2009

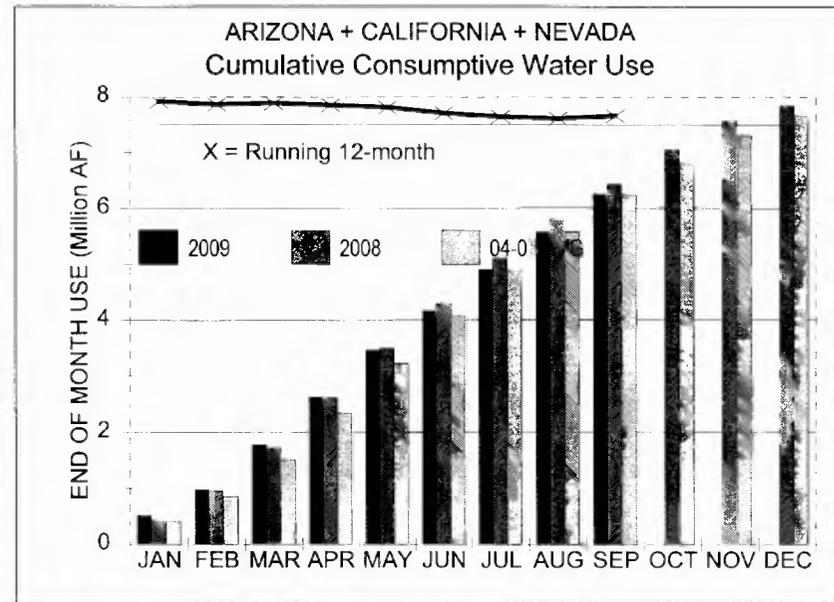
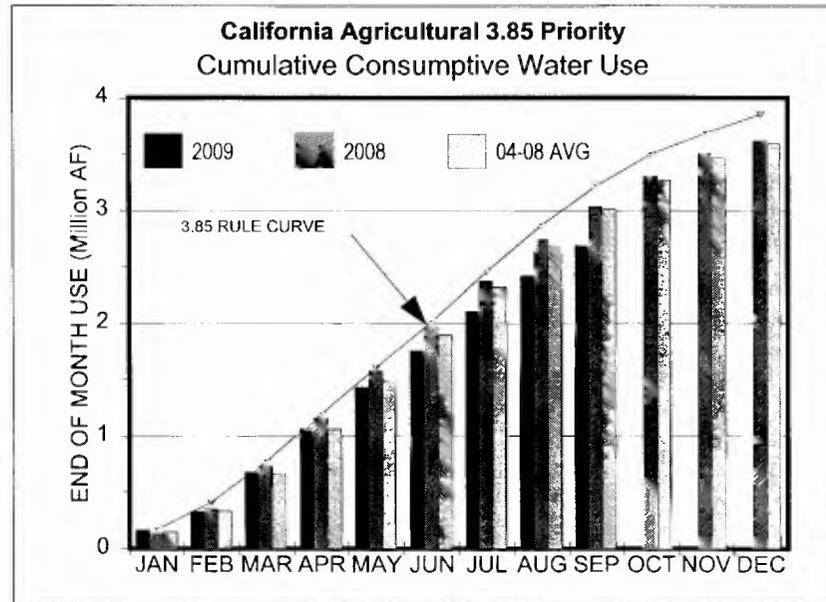
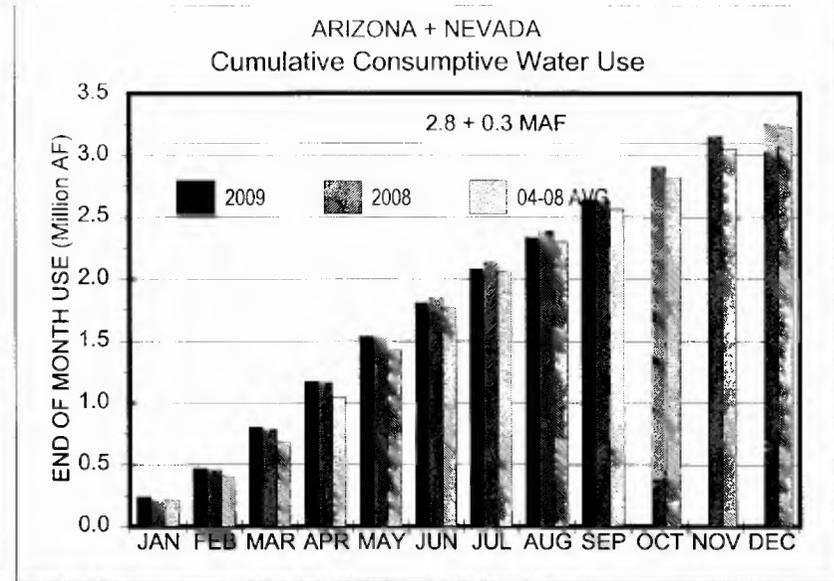
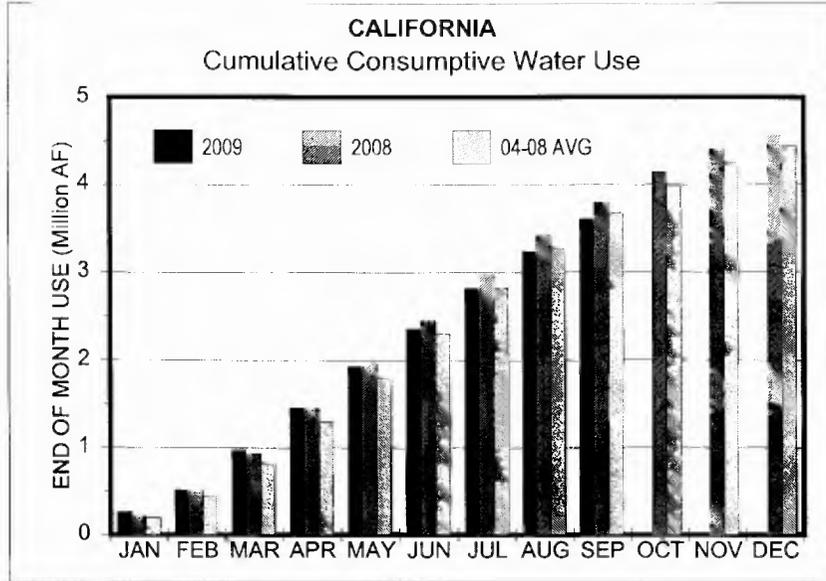
California Users	Diversion	Return	Consumptive Use	Change in	Cumulative Cons. Use		
				Cons. Use From Sep 2008	January thru September	Change from prev. Jan. thru Sep.	12 Months thru September
Palo Verde Irrig. Dist.	70,630	40,080	30,550	-9,220	305,650	-81,570	344,460
Yuma Proj. (Res. Div.) ^{b/}	4,320	2,180	2,140	-80	29,190	-11,690	35,220
Imperial Irrig. Dist. ^{a/}	202,890		202,890	-19,270	2,089,150	-269,030	2,551,220
Salton Sea Mitigation	2,660		2,660	-650	20,720	6,170	32,220
USBR SaltonSea Operations	0		0	0	0	0	0
IID plus Salton Sea Mitigation	205,550		205,550	-19,920	2,109,870	-262,860	2,583,440
Coachella Val. Wat. Dist. ^{a/}	29,290		29,290	2,630	239,450	8,530	307,060
Subtotal	309,790	42,260	267,530	-26,590	2,684,160	-347,590	3,270,180
Fort Mojave Ind. Res. ^{c/}	2,000		2,000	0	21,120	0	24,760
Cal. Miscellaneous ^{d/}	3,670		3,670	0	30,330	0	34,000
Metropolitan Water Dist.	96,150	420	95,730	13,840	870,980	158,840	1,067,070
Total	411,610	42,680	368,930	-12,750	3,606,590	-188,750	4,396,010
<u>Arizona Users</u>							
Central Arizona Project	143,370		143,370	49,860	1,233,560	40,370	1,602,000
Colorado River Ind. Res.	60,090	18,590	41,500	-80	399,060	10,040	442,540
Gila Gravity Main Canal	75,750	17,640	58,110	9,850	454,640	-780	524,260
Yuma Proj. (Valley Div.)	25,990	12,050	13,940	-440	157,530	-28,010	197,930
Fort Mojave Ind. Res. ^{c/}	7,050		7,050	0	64,780	0	85,130
Havasut Nat. Wildlife Ref.	2,930	0	2,930	930	34,140	-1,040	36,340
Arizona Miscellaneous ^{d/}	7,820		7,820	0	70,760	0	85,000
Total	323,000	48,280	274,720	60,120	2,414,470	20,580	2,973,200
<u>Nevada Users</u>							
From Lake Mead ^{b/}	38,260	10,330	27,930	-890	223,850	-10,760	285,700
Mohave Steam Plant	50		50	10	380	20	500
Total	38,310	10,330	27,980	-880	224,230	-10,740	286,200
Total Consumptive Use (Ariz., Cal., Nev.)	772,920	101,290	671,630	46,490	6,245,290	-178,910	7,655,410

a. Based on measurements below Pilot Knob (assumed to be equal to USBR Article V data after credit is given for unmeasured California return flows between Imperial Dam and Pilot Knob). In addition, Salton Sea mitigation is not part of IID's use but is included in IID total diversion. IID diversions for April are not available

b. Return flow estimates based on averages of past returns as calculated by USBR for Article V data.

c. Assumed equal to August, 1983 use estimated by Fort Mojave Indian Tribe.

d. An estimated residual made by the Colorado River Board of California combining such items as small diversions along the river, unmeasured groundwater return flow, etc., which, when combined with other quantities listed to arrive at the State's total, presents an estimate of the State's Consumptive use of Lower Colorado River water.



October 15, 2009, Observed Colorado River Flow into
Lake Powell (1) (Million Acre-feet)

	<u>USBR and National Weather Service</u>		<u>Change From Last</u>	
	<u>April-July 2009</u>	<u>Water Year 2009</u>	<u>April-July 2009</u>	<u>Wat Yr 2009</u>
Maximum (2)	7.804	10.634	0.000	0.007
Mean	7.804 *	10.633 **	0.000	0.006
Minimum (2)	7.804	10.631	0.000	0.004

* This month's A-J observed is 98% of the 30-year A-J average shown below.
 ** This month's W-Y observed is 88% of the 30-year W-Y average shown below.

Comparison with past records
of Colorado River
inflow into Lake Powell
(at Lee Ferry prior to 1962)

	<u>April-July Flow</u>	<u>Water Year Flow</u>
Long-Time Average (1922-2008)	7.741	11.519
30-yr. Average (1961-90)	7.735	11.724
10-yr. Average (1999-2008)	5.203	8.449
Max. of Record	15.404 (1984)	21.873 (1984)
Min. of Record	1.115 (2002)	3.058 (2002)
Year 2000	4.352	7.310
Year 2001	4.301	6.955
Year 2002	1.115	3.058
Year 2003	3.918	6.358
Year 2004	3.640	6.128
Year 2005	8.810	12.614
Year 2006	5.318	8.769
Year 2007	4.052	8.231
Year 2008	8.906	12.356
<u>Year 2009</u>	<u>7.804</u>	<u>10.633</u>
Total Years 2000 - 2004	17.326	29.809
5-Year Average (2000-2004)	3.465	5.962

(1) Under conditions of no other Upper Basin reservoirs.

(2) USBR and NWS forecasts indicate the probability of 95 percent of the time the actual flow will not exceed the maximum value, and will not be less than the minimum value.

VI. Scheduled Flows to Mexico — Arrivals and excess arrivals of Water for Calendar Year 2009
(Acre-feet)

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	<u>Scheduled</u>	<u>Total</u>	<u>Excess</u>	<u>Other</u>	<u>Total</u>	<u>Cumulative</u>	<u>Flow</u>	<u>Flow By-Pass</u>
	<u>Flow</u> ⁽⁹⁾	<u>Arrivals</u>	<u>in accord</u>	<u>Excess</u>	<u>Excess</u>	<u>Excess</u>	<u>Through</u>	<u>Southerly</u>
			<u>with</u>	<u>Arrivals</u>	<u>Arrivals</u>	<u>Arrivals</u>	<u>NIB and</u>	<u>International</u>
			<u>Minute</u>	<u>Arrivals</u>			<u>Limitrophe</u>	<u>Boundary</u>
			<u>242</u>					
Jan.	119,428	131,137	10,033	1,677	11,710	11,710	108,313	10,024
Feb.	152,979	171,990	9,433	9,578	19,011	30,721	151,373	9,433
March	208,455	219,177	10,164	558	10,722	41,443	195,714	10,164
April	199,629	215,258	9,702	5,927	15,629	57,072	192,856	9,702
May	112,754	132,812	10,422	9,631	20,053	77,125	110,896	10,422
June	112,353	123,213	9,645	1,215	10,860	87,985	102,298	9,645
July	118,342	129,556	9,525	1,689	11,214	99,199	108,508	9,525
August	92,284	107,840	6,621	8,935	15,556	114,755	89,839	6,621
Sept.	89,307	103,561	10,286	3,968	14,254	129,009	81,195	10,286
Oct.	72,742							
Nov.	102,966							
Dec.	118,761							
	<u>1,500,000</u>	<u>1,334,544</u>	<u>85,831</u>	<u>43,178</u>			<u>1,140,992</u>	<u>85,822</u>

- Column (1). Flow schedule requested by Mexico. In surplus years as determined by the United States, Mexico can schedule up to 1.7 rather than 1.5 million acre-feet.
- (2). Total Colorado River waters reaching Mexico. It is the sum of: 1) Colorado River water measured at the Northerly International Boundary, 2) drainage waters measured at the Southerly International Boundary near San Luis, Arizona, and 3) Wellton-Mohawk drainage waters measured at the Southerly International Boundary. It is the sum of Columns (1) + (5).
- (3). Arizona's Wellton-Mohawk Irrigation and Drainage District drainage water. This water is discharged to the Santa Clara Slough in Mexico via a concrete-lined canal.
- (4). Excess arrivals other than Wellton-Mohawk drainage. It is the sum of: 1) a delivery of about 5,000 a. f. per year to ensure that Mexico receives what is scheduled, 2) releases from Parker Dam which are not used due to unexpected rainfall in the Palo Verde, Coachella, Imperial, and Yuma areas, 3) controlled flood releases on the Gila and Colorado River, and 4) local runoff.
- (5). Sum of Columns (3) and (4).
- (6). Cumulation of Column (5).
- (7). Including Colorado River flow at the Northerly International Boundary plus flow from Cooper, 11-mile, and 21-mile spillways.
- (8). Including flow at the Southerly International Boundary, from the East and West Main canals, Yuma Valley Main, 242 Lateral plus diversions from Lake Havasu for Tijuana.
- (9). Revised schedule of Calander Year 2009 as of November 20, 2009

WEIGHTED MONTHLY SALINITY AT
SELECTED COLORADO RIVER STATIONS
AND RUNNING 12-MONTH NIB-IMPERIAL FLOW-WEIGHTED SALINITY DIFFERENTIAL
(in parts per million)

	Below Hoover Dam			Below Parker Dam ^{3/}			Palo Verde ^{3/} Canal Near Blythe			At Imperial Dam			At Northerly Inter-national Boundary			Running 12-Month Flow-Wtd. Differential ^{2/}	
	5-Year avg. ^{1/}			5-Year avg. ^{1/}			5-Year avg. ^{1/}			5-Year avg. ^{1/}			5-Year avg. ^{1/}			2008	2009
Month	1974-78	2008	2009	1974-78	2008	2009	1974-78	2008	2009	1974-78	2008	2009	1974-78	2008	2009	2008	2009
Jan.	690	685	665	709	685		751	713		913	717	768	1,041	821	933	130.7	146.4
Feb.	675	692	655	706	678		732	682		835	675	745	998	822	862	135.9	145.5
March	684	674	649	699	668		727	686		805	717	703	925	803	804	139.4	147.0
April	680	659	636	700	675		714	697		801	699	710	892	805	798	144.9	144.6
May	677	676	646	698	681		709	696		822	725	727	962	914	907	141.4	144.0
June	678	648	637	695	671		712	686		812	718	717	956	896	889	137.1	143.4
July	682	655	630	688	683		709	701		797	720	698	909	865	847	137.3	144.0
August	690	641	619	686	677		706	692		800	734	706	907	894	882	135.7	145.5
Sept.	672	646	603	686	676		737	693		815	747	705	952	944	865	139.3	143.9
Oct.	680	638	604 ^{4/}	689	657		739	689		854	758		1,070	1,010		139.6	
Nov.	682	642		692	674		746	705		897	765		1,010	931		140.2	
Dec.	681	651		702	671		731	723		877	834		999	912		140.5	

General Notes:

^{1/} 5-Year averages are arithmetical.

^{2/} 12-month flow-weighted differential between NIB and Imperial Dam through month shown in left column.

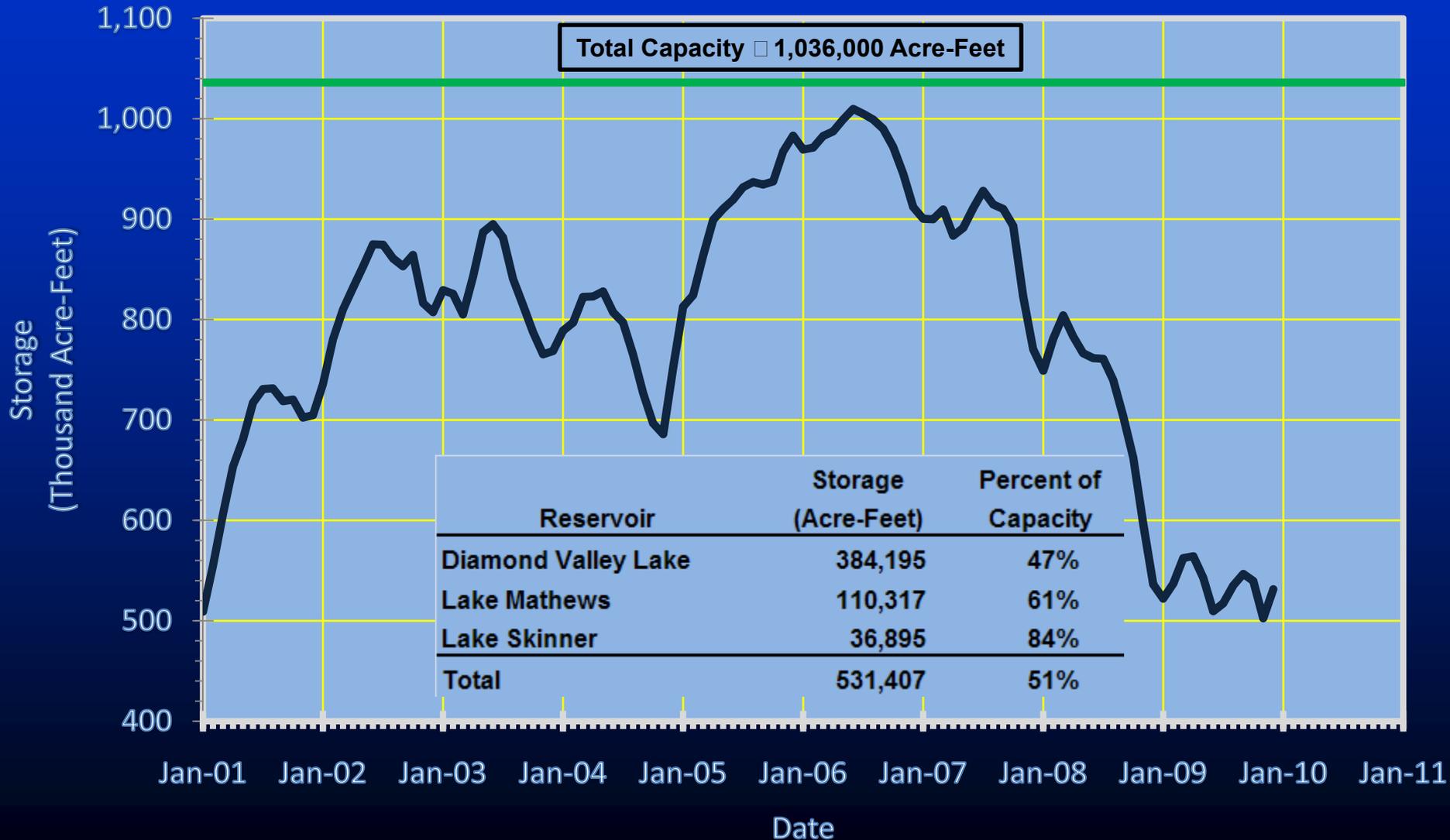
^{3/} Operational values only.

^{4/} Preliminary

5.b. - State and Local Water Reports

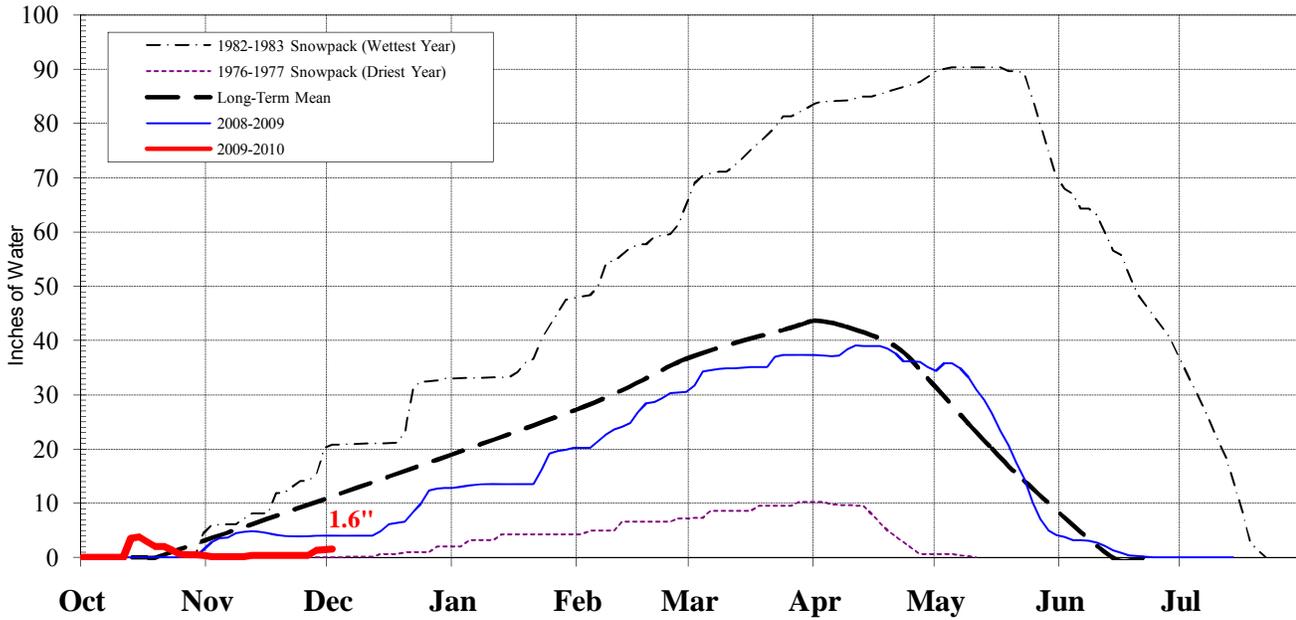
MWD's Combined Reservoir Storage as of December 1, 2009

Lake Skinner, Lake Mathews, and Diamond Valley Lake



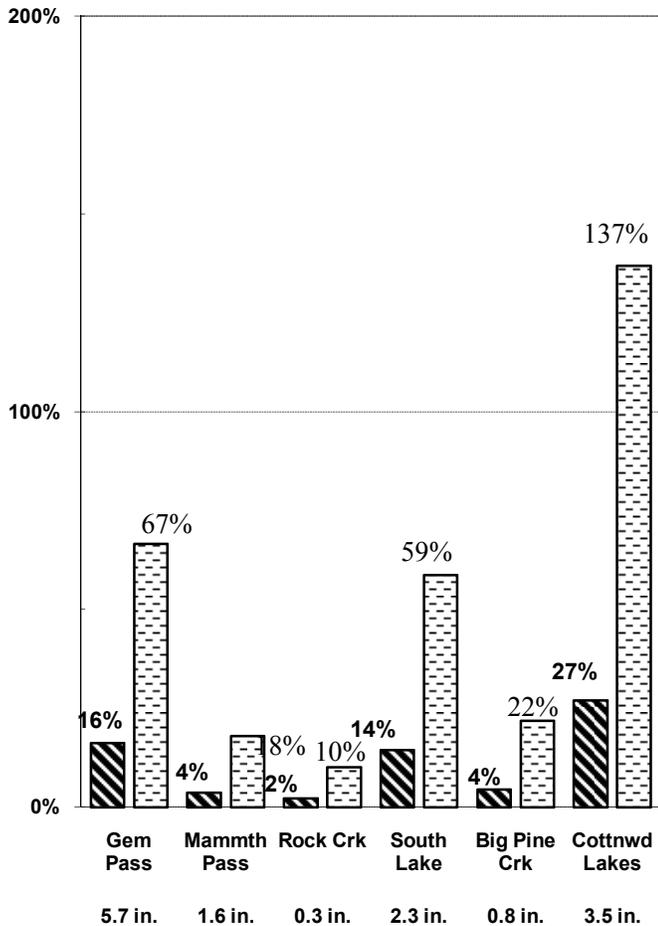
EASTERN SIERRA CURRENT PRECIPITATION CONDITIONS As of December 2, 2009

Mammoth Pass Snowpack



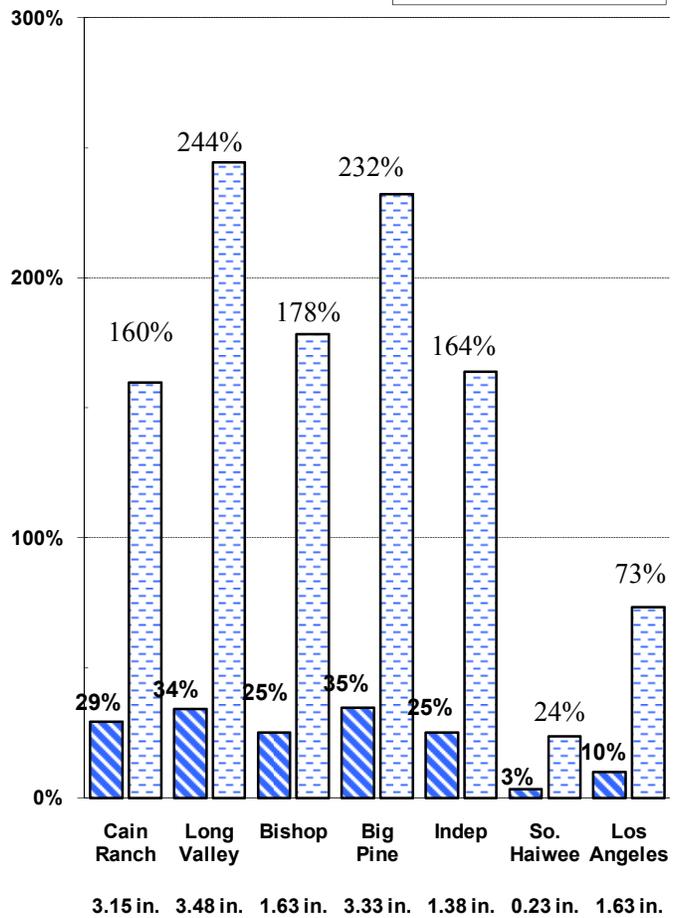
Snow Sensors

■ % of 1-Apr Normal
□ % of Normal to Date



Precipitation

■ % of 30-Sep Normal
□ % of Normal to Date



Station Location and Actual Measurement as Inches Water Content

Precipitation totals are cumulative for water year beginning Oct 1

5.c. - Colorado River Operations



MWD

METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

Executive Office

November 6, 2009

Ms. Pat Mulroy
General Manager
Southern Nevada Water Authority
1001 South Valley View Boulevard
Las Vegas, NV 89153

Dear Ms. Mulroy:

PAT

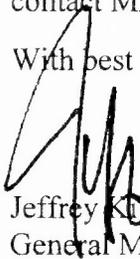
Metropolitan Response to Southern Nevada
Water Authority Request to Store Unused Apportionment in 2009

The Metropolitan Water District of Southern California (Metropolitan) has received your request to make 60,000 acre-feet of unused Nevada basic apportionment available for storage pursuant to the First Amended Operational Agreement among Southern Nevada Water Authority (Authority), the Colorado River Commission of Nevada, and Metropolitan. As you may be aware, after receiving your letter, staff from the Central Arizona Project, Metropolitan, and the Authority along with the Bureau of Reclamation met to discuss coordination of our operations and determine how to best manage all of our agencies' water supplies as we near the end of the year. At that meeting, we agreed to maintain flexibility in determining the amount of Nevada basic apportionment that Metropolitan will accept delivery of this year, determining the final amount at the end of the calendar year.

It is our understanding that the Authority will request that some of its unused basic apportionment be delivered for storage in Arizona pursuant to existing interstate storage agreements. We understand that such a request would affect the amount of water the Authority would have available to store with Metropolitan. As such, Metropolitan agrees to take delivery of up to 60,000 acre-feet of Nevada's basic apportionment, with the exact amount to be determined at the end of the year.

In the interest of determining the best way to manage Colorado River supplies, we look forward to further dialogue with your staff. If you have any questions regarding this matter, please contact Mr. Bill Hasencamp at (213) 217-6520.

With best regards,


Jeffrey Knightlinger
General Manager

*THANKS FOR YOUR
COOPERATION + ALL YOUR
HELP!*

HMR:jc

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Ms. Pat Mulroy

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November 6, 2009

cc: Mr. George Caan
Director
Colorado River Commission of Nevada
555 East Washington Avenue, Suite 3100
Las Vegas, NV 89101

Mr. Gerald R. Zimmerman
Executive Director
Colorado River Board of California
770 Fairmont Avenue, Suite 100
Glendale, CA 91203-1035

Mr. Herb R. Guenther
Director
Arizona Department of Water Resources
3550 North Central Avenue
Phoenix, AZ 85012

Mr. Larry R. Dozier
Deputy General Manager
Central Arizona Project
23636 North Seventh Street
Phoenix, AZ 85024



THE METROPOLITAN WATER DISTRICT
OF SOUTHERN CALIFORNIA

Office of the General Manager

November 30, 2009

Ms. Lorri Gray-Lee
Regional Director
United States Department of the Interior
Bureau of Reclamation
P.O. Box 61470
Boulder City, NV 89006

Dear Ms. Gray-Lee:

MWD Storage of Unused Nevada Apportionment in 2009

Recently, you received letters from both the Central Arizona Project (CAP) and Southern Nevada Water Authority (SNWA) regarding plans for the creation of Intentionally Created Surplus (ICS) and interstate banking arrangements for the remainder of 2009. Those letters were the result of discussions among our agencies and your staff as to how to cooperatively manage our water supplies to meet each of our agency's needs as we close out the year. The Metropolitan Water District of Southern California (Metropolitan) appreciates the efforts of your staff to help us reach a mutually acceptable solution.

In echoing the points made in the other agency letters, Metropolitan and SNWA have implemented aggressive urban conservation activities to reduce demands for water and implement extra-ordinary conservation projects which qualify as ICS under the Interim Guidelines. As you are aware, we have not yet completed procedures regarding the implementation of the ICS program, including the process to review and approve ICS plans. As of today, SNWA's plan has been approved and Metropolitan is awaiting approval of its ICS plan.

With respect to interstate banking arrangements, SNWA had requested that Metropolitan store 60,000 acre-feet of unused basic apportionment in 2009. After receipt of that letter, we learned that salinity concerns regarding deliveries to Mexico have resulted in reduced pumping in the Yuma area that could affect the amount of water available to CAP this year. After discussions with SNWA and CAP, we all agreed that some of SNWA's basic apportionment would be stored in Arizona, with the balance being stored by Metropolitan. As such, pursuant to Section 3.2 of the 2004 Storage and Interstate Release Agreement, Metropolitan has agreed to take delivery of up to 60,000 acre-feet of Nevada's basic apportionment, with the exact amount to be determined at the end of the year.

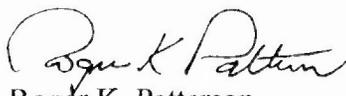
We will need Reclamation's continued collaboration and leadership to help us accomplish our goals and effectively manage our water supplies. We all recognize that factors beyond our

Ms. Lorri Gray-Lee
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November 30, 2009

control may impact our current plans, so we encourage Reclamation to provide up-to-date information as we close out 2009. We also encourage Reclamation to develop ICS procedures to help guide the ICS approval process in upcoming years.

If you have any questions regarding this matter, please contact Mr. Bill Hasencamp of my staff at (213) 217-6520.

With best regards,



Roger K. Patterson
Assistant General Manager

HMR:jc

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cc: Mr. George Caan
Director
Colorado River Commission of Nevada
555 East Washington Avenue, Suite 3100
Las Vegas, NV 89101

Ms. Pat Mulroy
General Manager
Southern Nevada Water Authority
1001 South Valley View Boulevard
Las Vegas, NV 89153

Mr. Gerald R. Zimmerman
Executive Director
Colorado River Board of California
770 Fairmont Avenue, Suite 100
Glendale, CA 91203-1035

Mr. Herb R. Guenther
Director
Arizona Department of Water Resources
3550 North Central Avenue
Phoenix, AZ 85012

Ms. Lorri Gray-Lee

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November 30, 2009

Mr. Larry R. Dozier
Deputy General Manager
Central Arizona Project
23636 North Seventh Street
Phoenix, AZ 85024

Arizona Water Banking Authority

3550 N. Central Avenue, Phoenix, Arizona 85012

Telephone 602-771-8487

Fax 602-771-8685



AUTHORITY MEMBERS

Herbert R. Guenther, Chairman
Maureen R. George, Vice Chairman
Tom Buschatzke, Secretary
Lisa A. Atkins
John Mawhinney

EX OFFICIO MEMBERS

Honorable Steve Pierce
Honorable Kirk Adams

November 20, 2009

Ms. Lorri Lee, Regional Director
Bureau of Reclamation
Lower Colorado Regional Office
P.O. Box 61470
Boulder City, Nevada 89006

Ms. Kay Brothers
Southern Nevada Water Authority
1001 South Valley View Boulevard
Las Vegas, Nevada 89153

RE: Southern Nevada Water Authority Unused Apportionment for Storage by the
Arizona Water Banking Authority in 2009

Dear Mses. Lee and Brothers:

The Arizona Water Banking Authority (AWBA) is in receipt of Southern Nevada Water Authority's (SNWA) letter dated 11/4/09 notifying us of the availability of Intentionally Created Unused Apportionment (ICUA) and requesting the AWBA store up to 40,000 acre-feet of this water in 2009. Central Arizona Water Conservation District (CAWCD) has indicated to the AWBA that if the ICUA is released to Arizona it will make that ICUA available to the AWBA for storage on Nevada's behalf.

The AWBA Commission in a special meeting held November 12, 2009 agreed to amend the AWBA 2009 Plan of Operation to store 40,000 acre-feet of Nevada's ICUA. The Plan further recognizes that if more ICUA becomes available for storage, the AWBA will make every effort to store this water on behalf of SNWA. The AWBA is currently coordinating with CAWCD for the storage of 40,000 acre-feet of Nevada's ICUA.

Pursuant to Article 2.2 of the Storage and Interstate Release Agreement, once the Secretary of the Interior releases the ICUA to the State of Arizona, the AWBA agrees to accept delivery of and store such water for the benefit of SNWA in accordance with the terms of the Amended Agreement for Interstate Water Banking.

Please don't hesitate to contact me if you require additional information.

Sincerely,

A handwritten signature in cursive script that reads "Kim Mitchell".

Kim Mitchell, Manager
Arizona Water Banking Authority

cc: Terry Fulp, Bureau of Reclamation
Pat Mulroy, Southern Nevada Water Authority
William Rinne, Southern Nevada Water Authority
George Caan, Colorado River Commission of Nevada
Jeff Kightlinger, Metropolitan Water District of Southern California
Gerald Zimmerman, Colorado River Board of California
David Modeer, Central Arizona Water Conservation District
Larry Dozier, Central Arizona Water Conservation District
Herbert Guenther, Arizona Department of Water Resources
Tom Carr, Arizona Department of Water Resources
Perri Benemelis, Arizona Department of Water Resources



THE METROPOLITAN WATER DISTRICT
OF SOUTHERN CALIFORNIA

Office of the General Manager

November 19, 2009

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

Dear Mr. Modeer:

Revised Recovery Request of Interstate Underground Storage Credits in 2009

The Metropolitan Water District of Southern California (Metropolitan) and the Central Arizona Water Conservation District (CAWCD) agreed to recover 30,000 acre-feet of long-term storage credits in 2009 that were originally stored under the 1992 demonstration agreement entered into by Metropolitan and CAWCD to store Colorado River water in central Arizona. Due to unexpected changes in our water supply portfolio, it is necessary to reduce our initial request.

Our staffs met to determine a revised request that could be mutually agreeable to our agencies. Following up on that discussion, per Item 1 of the December 11, 2007 letter agreement among our agencies and the Arizona Water Banking Authority, we request that the total recovery amount for 2009 be reduced to 27,500 acre-feet. The exact amount recovered will be determined at the end of the year. Additionally, staff have agreed to develop the remaining balance, estimated at 8,200 acre-feet, of intentionally created unused apportionment in 2010 for this purpose.

Thank you for your agency's cooperation. If you have any questions, please feel free to contact Mr. Bill Hasencamp of my staff at (213) 217-6520.

With best regards,

Handwritten signature of Roger K. Patterson in cursive.

Roger K. Patterson
Assistant General Manager

HMR:jc

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Mr. David Modeer

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November 19, 2009

cc: Mr. Timothy J. Henley
Arizona Water Banking Authority
3550 North Central Avenue
Phoenix, AZ 85012

Mr. Tom McCann
Central Arizona Water Conservation District
P.O. Box 43020
Phoenix, AZ 85080-3020

Mr. Gerald R. Zimmerman
Colorado River Board of California
770 Fairmont Avenue, Suite 100
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Ms. Lorri Gray-Lee
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U.S. Bureau of Reclamation
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