

# RECLAMATION

*Managing Water in the West*



Calendar Year 2014

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



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

May 2015

# Mission Statements

## **Department of the Interior**

The Department of the Interior protects and manages the Nation's natural resources and cultural heritage; provides scientific and other information about those resources; and honors its trust responsibilities or special commitments to American Indians, Alaska Natives, and affiliated island communities.

## **Bureau of Reclamation**

The mission of the Bureau of Reclamation is to manage, develop, and protect water and related resources in an environmentally and economically sound manner in the interest of the American public.

# **Colorado River Accounting and Water Use Report Arizona, California, and Nevada Calendar Year 2014**

*Prepared by*

**Lower Colorado Region  
Boulder Canyon Operations Office**



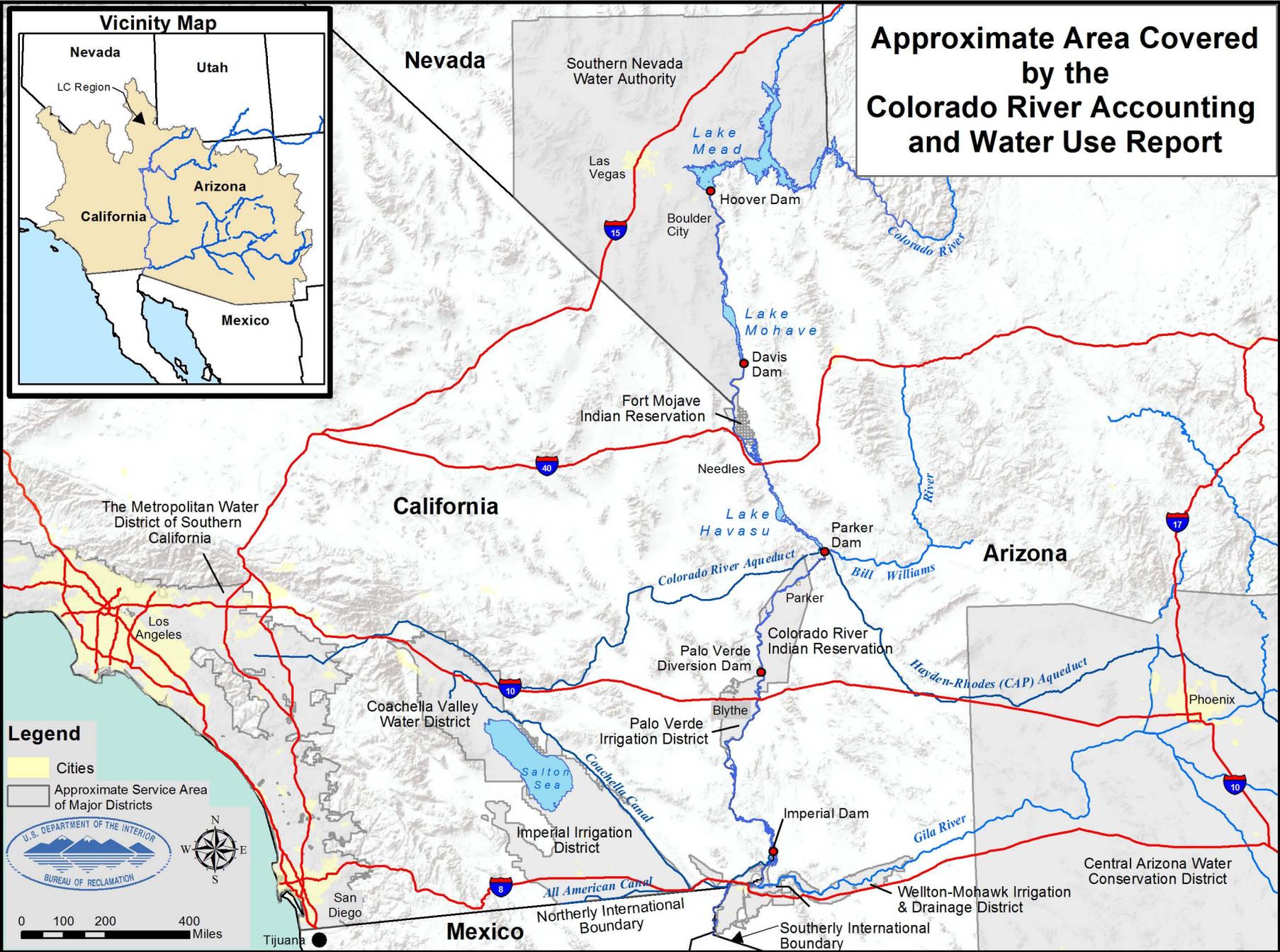
**U.S. Department of the Interior  
Bureau of Reclamation  
Lower Colorado Region  
Boulder Canyon Operations Office  
P.O. Box 61470  
Boulder City, NV 89006-1470**

**May 2015**

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# Approximate Area Covered by the Colorado River Accounting and Water Use Report



# Acronyms and Abbreviated Terms

These acronyms and abbreviations are found in the text, footnotes, and headings within this document.

AAC	All-American Canal	EOY	end-of-year
AACLP	All-American Canal Lining Project	FEIS	Final Environmental Impact Statement
ADP	Arizona diesel pump	FYIR	Fort Yuma Indian Reservation
ADW	Arizona diesel well	GGMC	Gila Gravity Main Canal
AEP	Arizona electric pump	ICUA	Intentionally Created Unused Apportionment
AEW	Arizona electric well	I.D.D.	Irrigation and Drainage District
AF	acre-feet	IBWC	International Boundary and Water Commission
AFY	acre-feet per year	ICS	Intentionally Created Surplus
ALTSC	Accumulated Long Term Storage Credit	IID	Imperial Irrigation District
AOP	Annual Operating Plan	IOPP	Inadvertent Overrun and Payback Policy
APS	Arizona Public Service	ISG	Colorado River Interim Surplus Guidelines
ASLD	Arizona State Land Department	IUS	Interstate Underground Storage credits
Assn.	Association	KAF	Thousand acre-feet
AWBA	Arizona Water Banking Authority	LCWSP	Lower Colorado Water Supply Project
BLM	Bureau of Land Management	LHFO	Lake Havasu Field Office (BLM)
BOY	beginning-of-year	LLC	Limited Liability Company
CAP	Central Arizona Project	LTD	Limited
CAWCD	Central Arizona Water Conservation District	LTSC	Long Term Storage Credit
CCLP	Coachella Canal Lining Project	MAF	Million acre-feet
CDP	California diesel pump	MWD	Metropolitan Water District of Southern California
CDW	California diesel well	MOD	Main Outlet Drain
CDEW	California diesel electric well	MODE	Main Outlet Drain Extension
CEP	California electric pump	M&I	Municipal and Industrial
CEW	California electric well	NWR	National Wildlife Refuge
CFR	Code of Federal Regulations	NIB	Northerly International Boundary
CO	Colorado	PPR	Present Perfected Right
CR	Colorado River	PVID	Palo Verde Irrigation District
CRBC	Colorado River Board of California	QSA	Quantification Settlement Agreement
CRCN	Colorado River Commission of Nevada	SIB	Southerly International Boundary
CRIT	Colorado River Indian Tribes	SIRA	Storage and Interstate Release Agreement
CRWDA	Colorado River Water Delivery Agreement	SDCWA	San Diego County Water Authority
CU	consumptive use	SLRSP	San Luis Rey Settlement Parties
CVWD	Coachella Valley Water District	SNWA	Southern Nevada Water Authority
CY	calendar year	TCM	Thousand Cubic Meters
Diff.	difference	USGS	United States Geological Survey
Dist.	district	YAO	Yuma Area Office (Reclamation)
Div.	diversion	YDP	Yuma Desalting Plant
DPOC	drainage pump outlet channel	YFO	Yuma Field Office (BLM)
ECICS	Extraordinary Conservation Intentionally Created Surplus	YID	Yuma Irrigation District
ET	evapotranspiration	YMIDD	Yuma Mesa Irrigation and Drainage District

## Glossary

**Active Storage:** That part of the total reservoir capacity which can be withdrawn by gravity less Exclusive Flood Control Space.

**Accumulated Long Term Storage Credits (ALTSC):** The cumulative amount of Long Term Storage Credits in a storer's long-term storage account.

**Bypass Drain:** The 53-mile-long, concrete-lined drain, which extends from the end of the Main Outlet Drain Extension near Morelos Dam to the upper end of the Ciénega de Santa Clara (Ciénega) in Mexico. The Bypass Drain, constructed to assist the United States in meeting its obligations under Minute No. 242 of the International Boundary and Water Commission, conveys pumped drainage from the Wellton-Mohawk Irrigation and Drainage District to the Ciénega.

**Colorado River Aquifer:** The aquifer underlying the Colorado River mainstream consisting of permeable, partly saturated sediments and sedimentary rocks that are hydraulically connected to the Colorado River so that water can move between the Colorado River and the aquifer in response to withdrawal of water from the aquifer or differences in water-level elevations between the Colorado River and the aquifer.

**Colorado River Basin:** All of the drainage area of the Colorado River System and all other territory within the United States of America to which the waters of the Colorado River System shall be beneficially applied.

**Colorado River System:** That portion of the Colorado River and its tributaries within the United States.

**Colorado River water:** Water in or withdrawn from the mainstream.

**Consuming State:** Is the Lower Division State where ICUA will be used.

**Consumptive use:** Diversions from the mainstream of the Colorado River less such Return Flow thereto as is available for consumptive use in the United States or in satisfaction of the Mexican Treaty Obligation. Consumptive use from the mainstream within a Lower Division state includes water drawn from the mainstream by underground pumping.

**Consolidated Decree:** The Consolidated Decree of the Supreme Court of the United States in *Arizona v. California et al.*, entered March 27, 2006 (547 U.S. 150 (2006)), or as it may be further modified.

**Domestic Use:** The use of water for household, stock, municipal, mining, industrial, and other like purposes, but excluding the use of water for the generation of electric power.

**Drain Pump Outlet Channel (DPOC):** The DPOC drainage system consists of 24 wells which provide groundwater drainage for the agricultural lands of the South Gila Valley. This drainage water is returned to the Colorado River by DPOC Nos. 1, 2, 3, and 4, and is part of the water delivered to Mexico above Morelos Dam in accordance with the 1944 Mexican Water Treaty.

**Entitlement:** An authorization to beneficially use Colorado River water pursuant to: (1) a right decreed by the Supreme Court, (2) a water delivery contract with the United States through the Secretary of the Interior, or (3) a Secretarial Reservation.

**Exclusive Flood Control Space:** The space in a reservoir reserved for the sole purpose of regulating and attenuating flood inflows to abate flood damage.

**Intentionally Created Unused Apportionment (ICUA):** Unused apportionment developed consistent with the laws of the Storing State and exists solely as a result of, and would not exist except for, implementing a Storage and Interstate Release Agreement (SIRA).

**Inadvertent Overrun:** Colorado River water diverted, pumped or received by an entitlement holder within the Lower Division States that is in excess of the water user's entitlement for that year.

**Lee Ferry:** The point in the mainstream of the Colorado River one mile below the mouth of the Paria River that divides the upper and lower basins.

**Live Storage:** That part of the total reservoir capacity from which water can be withdrawn by gravity. This capacity is equal to the total capacity less the dead pool capacity.

**Lower Basin States:** Those parts of the States of Arizona, California, Nevada, New Mexico, and Utah within and from which waters naturally drain into the Colorado River System below Lee Ferry, and also all parts of said States located without the drainage area of the Colorado River System which are beneficially served by water diverted from the Colorado River system below Lee Ferry.

**Lower Division States:** The States of Arizona, California, and Nevada.

**Long Term Storage Credits (LTSC):** Colorado River water that has been stored offstream pursuant to a Storage and Interstate Release Agreement and credited to a storer's long-term storage account for use in future years.

**Main Outlet Drain (MOD):** A channel that conveys pumped groundwater drainage from the Wellton-Mohawk Valley to the Gila River near the confluence with the Colorado River.

**Main Outlet Drain Extension (MODE):** A 12-mile-long channel connected to the Main Outlet Drain that conveys Wellton-Mohawk drainage to points above or below Morelos Dam.

**Mainstream:** Mainstream means the main channel of the Colorado River downstream from Lee Ferry within the United States, including the reservoirs behind dams on the main channel, and Senator Wash Reservoir off the main channel.

**Mexican Treaty Obligation:** The United States obligation under the 1944 Mexican Water Treaty "Utilization of Waters of the Colorado and Tijuana Rivers and of the Rio Grande", signed February 3, 1944, including supplements to and obligations associated with Minutes of the International Boundary and Water Commission adopted pursuant to the 1944 Mexican Water Treaty.

**Off-Stream Storage:** Storage in a surface reservoir off of the mainstream or in a ground water aquifer. Off-stream storage includes indirect recharge when Colorado River water is exchanged for groundwater that otherwise would have been pumped and consumed.

**Protective and Regulatory Pumping Unit – 242 Well Field:** A well field and delivery system located within a 5-mile-wide strip of land north of the United States/Mexico boundary in southwestern Arizona. The unit currently consists of 21 wells which intercept part of the ground-water underflow moving southward into Mexico from the Yuma Mesa in the United States. The ground water recovered by the unit is collected in a conveyance system (the 242 Lateral) and is delivered to Mexico by the United States at the SIB as a portion of the Treaty obligation.

**Regulatory Structures:** Hoover Dam, Davis Dam, Parker Dam, Headgate Rock Dam, Palo Verde Dam, Imperial Dam, Laguna Dam and all other dams and works on the mainstream controlled or operated by the United States regulating the flow of water in the mainstream or the diversion of water from the mainstream.

**Return Flow:** Mainstream water that has been diverted and which flows or percolates back to the Colorado River or the Colorado River Aquifer and is available for use in the United States or in satisfaction of the Mexican Treaty Obligation.

**Storage and Interstate Release Agreement:** An agreement consistent with Title 43, CFR, Part 414 between the Secretary and authorized entities in two or more Lower Division States that addresses the details of: (1) Offstream storage of Colorado River water by a storing entity for future use within the Storing State; (2) Subsequent development of ICUA by the storing entity, consistent with the laws of the Storing State; (3) A request by the storing entity to the Secretary to release ICUA to the consuming entity; (4) Release of ICUA by the Secretary to the consuming entity; and (5) The inclusion of other entities that are determined by the Secretary and the storing entity and the consuming entity to be appropriate to the performance and enforcement of the agreement.

**Storing State:** A Lower Division State in which water is stored off the mainstream in accordance with a Storage and Interstate Release Agreement for future use in that State.

**Unused apportionment:** Colorado River water within a Lower Division State's basic or surplus apportionment, or both, which is not otherwise put to beneficial consumptive use during that year within that State.

**Yuma Mesa Conduit:** A 14.6 mile long pipeline which collects water from a Yuma-area well field consisting of multiple wells that are part of the overall groundwater recovery and river regulation program for the Yuma area. The groundwater recovered from the Yuma-area well field is collected into the conduit and discharged either to the Yuma Desalting Plant, the MODE, the Southerly International Boundary with Mexico via the Yuma Main Drain, or the Colorado River via the Yuma Mesa Conduit Outlet, a discharge point approximately 6 miles upstream of Morelos Dam.

**DISCLAIMER:**

Terms contained within this Glossary are defined to provide general information and are not intended to change, modify, or interpret the laws, rules, decrees, and treaties from which they are originally derived.

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

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

Footnotes: See following page.

**Footnotes:**

<sup>1</sup> The sum of Total Lower Division States Consumptive Use and Accountable Deliveries to Mexico in Satisfaction of Treaty Requirements

<sup>2</sup> The sum of end-of-year storage in Lower Basin reservoirs Mead, Mohave, and Havasu.

<sup>3</sup> The sum of end-of-year storage in Upper Basin Lake Powell and Lower Basin reservoirs Mead, Mohave, and Havasu.

<sup>4</sup> Total end-of-year system storage including Reclamation reservoirs in the Upper and Lower Basins of the Colorado River system.

<sup>5</sup> The percentage of total end-of-year system storage. This includes the Upper Basin reservoirs Powell, Navajo, Crystal, Morrow Point, Blue Mesa, Flaming Gorge, Fontenelle, and Lower Basin reservoirs Mead, Mohave, and Havasu. Based on total active system storage capacity of 59,383,000 AF.

<sup>6</sup> The net volume of water stored by the storing entity available for delivery to Nevada in a future year.

<sup>7</sup> Pumpage of Lower Colorado Water Supply Project wellfield to offset certain Colorado River water use in California.

<sup>8</sup> ICS creation amounts are provisional until verified by Reclamation. Reductions include system assessment, IOPP payback, delivery, and evaporation.

**Table 2. Monthly Storage Contents of the Colorado River System Reservoirs, Calendar Year 2014. (Values in thousand acre-feet except as noted.)**

	2013 EOY Balance	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	CHANGE
<b>End of Month Active Contents <sup>1</sup></b>														
Lake Powell	10,324	9,828	9,563	9,497	9,732	10,764	12,649	12,535	12,314	12,286	12,290	11,929	11,537	1,213
Percentage of Lake Powell Active Storage <sup>2</sup>	42.4%	40.4%	39.3%	39.0%	40.0%	44.3%	52.0%	51.5%	50.6%	50.5%	50.5%	49.0%	47.4%	5%
<b>Lake Mead</b>	12,344	12,531	12,456	11,888	11,254	10,639	10,233	10,061	10,140	10,121	10,244	10,309	10,667	-1,677
Lake Mohave	1,606	1,643	1,670	1,661	1,702	1,726	1,694	1,701	1,711	1,645	1,470	1,520	1,558	-48
Lake Havasu	531	547	582	562	582	589	578	585	582	583	550	576	549	18
<b>Reservoir Storage in the Lower Basin <sup>3</sup></b>	14,481	14,721	14,708	14,111	13,538	12,954	12,505	12,347	12,433	12,349	12,264	12,405	12,774	-1,707
Percentage of Colorado River Active Storage in the Lower Basin <sup>4</sup>	51.2%	52.0%	52.0%	49.9%	47.8%	45.8%	44.2%	43.6%	43.9%	43.6%	43.3%	43.8%	45.1%	-6%
<b>Lower Basin Storage plus Lake Powell <sup>5</sup></b>	24,805	24,549	24,271	23,608	23,270	23,718	25,154	24,882	24,747	24,635	24,554	24,334	24,311	-494
Percentage of Active Storage, Lower Basin plus Lake Powell <sup>6</sup>	47.1%	46.6%	46.1%	44.9%	44.2%	45.1%	47.8%	47.3%	47.0%	46.8%	46.7%	46.2%	46.2%	-1%
<b>Total System Storage <sup>7</sup></b>	29,303	29,033	28,765	28,172	28,060	29,037	30,641	30,446	30,220	30,040	29,967	29,742	29,629	326
Percentage of Total System Storage <sup>8</sup>	49.3%	48.9%	48.4%	47.4%	47.3%	48.9%	51.6%	51.3%	50.9%	50.6%	50.5%	50.1%	49.9%	1%

**Footnotes:**

<sup>1</sup> Actual values may differ from the displayed values due to rounding and being displayed to the nearest thousand acre-feet.

<sup>2</sup> Percentage of total active storage capacity available in Lake Powell. Based on total active storage capacity of 24,322,000 AF. For purposes of this tabulation, the term "active storage" is equivalent to live storage less the Exclusive Flood Control Space, and refers to the volume of water that can be delivered downstream via gravity flow.

<sup>3</sup> The sum of end-of-month storage in reservoirs Mead, Mohave, and Havasu.

<sup>4</sup> The percentage of available active storage capacity held in the Lower Basin (Lakes Mead, Mohave and Havasu). Based on total active storage capacity of 28,306,000 AF.

<sup>5</sup> The sum of end-of-month storage in Lake Powell (Upper Basin) and Lakes Mead, Mohave and Havasu (Lower Basin).

<sup>6</sup> The percentage of available total active storage capacity held in Lake Powell (Upper Basin) and Lakes Mead, Mohave, and Havasu (Lower Basin). Based on total active storage capacity of 52,628,000 AF.

<sup>7</sup> Total end-of-month system storage, includes Reclamation reservoirs in the Upper and Lower Basins of the Colorado River system.

<sup>8</sup> The percentage of total end-of-month system storage. This includes the Upper Basin Lakes Powell, Navajo, Crystal, Morrow Point, Blue Mesa, Flaming Gorge, Fontenelle, and Lower Basin Lakes Mead, Mohave, and Havasu. Based on total active system storage capacity of 59,383,000 AF.

**COMPILATION OF RECORDS IN ACCORDANCE WITH ARTICLE V  
OF THE CONSOLIDATED DECREE OF THE UNITED STATES SUPREME COURT IN  
ARIZONA v. CALIFORNIA, 547 U.S. 150 (2006)**

In accordance with Article V of the Consolidated Decree of the United States Supreme Court in *Arizona v. California*, 547 U.S. 150 (2006) (Consolidated Decree):

“The United States shall prepare and maintain, or provide for the preparation and maintenance of, and shall make available, annually and at such shorter intervals as the Secretary of the Interior shall deem necessary or advisable, for inspection by interested persons at all reasonable times and at a reasonable place or places, complete, detailed and accurate records of:

(A) Releases of water through regulatory structures controlled by the United States;

(B) Diversions of water from the mainstream, return flow of such water to the stream as is available for consumptive use in the United States or in satisfaction of the Mexican Treaty obligation, and consumptive use of such water. These quantities shall be stated separately as to each diverter from the mainstream, each point of diversion, and each of the States of Arizona, California and Nevada;

(C) Releases of mainstream water pursuant to orders therefor but not diverted by the party ordering the same, and the quantity of such water delivered to Mexico in satisfaction of the Mexican Treaty or diverted by others in satisfaction of rights decreed herein. These quantities shall be stated separately as to each diverter from the mainstream, each point of diversion, and each of the States of Arizona, California and Nevada;

(D) Deliveries to Mexico of water in satisfaction of the obligations of Part III of the Treaty of February 3, 1944, and, separately stated, water passing to Mexico in excess of treaty requirements;

(E) Diversions of water from the mainstream of the Gila and San Francisco Rivers and the consumptive use of such water, for the benefit of the Gila National Forest.”

This *Calendar Year 2014 Colorado River Accounting and Water Use Report, Arizona, California, and Nevada* presents the records compiled pursuant to the Consolidated Decree for Calendar Year 2014. Copies of this and previous years’ reports may be found on the Bureau of Reclamation’s (Reclamation) website at: [www.usbr.gov/lc/region/g4000/wtracct.html](http://www.usbr.gov/lc/region/g4000/wtracct.html).

## **ARTICLE V(A): RECORDS OF RELEASES OF WATER THROUGH REGULATORY STRUCTURES CONTROLLED BY THE UNITED STATES**

In accordance with Article V(A) of the Consolidated Decree, Table 3 documents records of releases of Colorado River water through Glen Canyon, Hoover, Davis, Parker, Palo Verde, Imperial and Laguna Dams. Records of releases through Glen Canyon and Hoover Dams are provided by Reclamation. Records of releases through Davis, Parker, Palo Verde, Imperial and Laguna Dams are provided by the United States Geological Survey (USGS) and are based upon measurements at or downstream of the dams.

The record of river flow through Headgate Rock Dam is computed using the record of flow at USGS gaging station 09247520 "Colorado River below Parker Dam, Arizona-California," and deducting from it the record of flow at the USGS gaging station 09428500 "Diversion for Colorado River Indian Reservation Main Canal near Parker, Arizona" measured at Headgate Rock Dam.

The releases for Imperial Dam represent flow below Imperial Dam alone and do not include diversions into the All-American Canal (AAC) and the Gila Gravity Main Canal (GGMC).

**Table 3. Releases of Water Through Regulatory Structures Controlled by the United States, Calendar Year 2014. (Values are in acre-feet.)**

<b>STRUCTURE</b>	<b>JAN</b>	<b>FEB</b>	<b>MAR</b>	<b>APR</b>	<b>MAY</b>	<b>JUN</b>	<b>JUL</b>	<b>AUG</b>	<b>SEP</b>	<b>OCT</b>	<b>NOV</b>	<b>DEC</b>	<b>TOTAL</b>
<b>Glen Canyon Dam</b>	800,322	599,471	503,514	501,685	493,263	598,253	800,029	801,049	604,195	597,939	776,770	864,375	7,940,865
<b>Hoover Dam</b>	605,470	717,087	1,089,771	1,133,734	1,085,576	959,403	942,819	735,220	685,769	471,828	695,041	493,122	9,614,840
<b>Davis Dam</b>	586,800	691,600	1,108,000	1,075,000	1,030,000	961,600	911,600	703,100	764,400	683,100	659,900	469,900	9,645,000
<b>Parker Dam</b>	360,500	477,200	810,100	727,700	665,100	680,800	665,900	474,700	451,200	409,700	347,900	232,400	6,303,200
<b>Headgate Rock Dam</b>	330,860	439,350	759,230	664,710	593,600	614,690	590,590	412,240	401,730	363,770	314,110	202,810	5,687,690
<b>Palo Verde Diversion Dam</b>	283,800	351,800	658,400	602,300	514,900	499,800	506,200	359,700	348,200	325,600	273,800	184,500	4,909,000
<b>Imperial Dam</b>	17,390	14,730	56,220	47,570	49,580	29,910	48,580	45,760	23,800	16,220	26,320	16,110	392,190
GGMC Diversion for Mittry Lake	823	758	861	831	837	778	756	690	744	714	373	0	8,165
Sum Imperial Dam and Mittry Lake	18,213	15,488	57,081	48,401	50,417	30,688	49,336	46,450	24,544	16,934	26,693	16,110	400,355
<b>Laguna Dam</b>	21,320	22,910	56,910	52,340	51,480	34,720	49,630	49,080	31,980	25,250	30,500	22,450	448,570

## ARTICLE V(B): RECORDS OF DIVERSIONS, RETURN FLOWS AND CONSUMPTIVE USE

In accordance with Article V(B) of the Consolidated Decree, Tables 4 through 6 document the final records of diversions of water from the mainstream of the Colorado River, return flow to the mainstream, and the consumptive use of such water within the Lower Division States of Arizona, California, and Nevada.

The tabulations, based upon records furnished by Reclamation, the United States Geological Survey (USGS), the International Boundary and Water Commission, water users, or other agencies, document quantities of water drawn by surface diversion from the mainstream of the Colorado River, pumped directly from the mainstream, or pumped from wells in the Colorado River aquifer.

Measured return flow to the mainstream, estimates of unmeasured return flow to the mainstream, and consumptive use are listed for points of diversion and return when that information is available. Unmeasured returns are computed by multiplying a water user's diversion by an unmeasured return flow factor. Reclamation continues to refine estimates of unmeasured returns.

No person or entity is entitled to divert or use Colorado River water without an entitlement. An entitlement is an authorization to beneficially use Colorado River water pursuant to: (1) a right decreed by the Supreme Court, (2) a contract with the United States through the Secretary of the Interior, or (3) a Secretarial reservation of water. The listing of a use in this report should not be interpreted as an entitlement or an indication that the use is authorized.

For the states of Arizona and California, the records of diversions, return flows, and consumptive use are organized into two separate tabulations. The first tabulation lists water users whose diversions are typically reported daily and monthly.

The second tabulation, entitled "State of (State) Supplemental Tabulation, Calendar Year 2014" lists water users whose diversions are typically reported annually by either the USGS or the water user. For those diversions reported by the USGS, the USGS verifies the crops being grown and uses evapotranspiration methodologies to estimate the crop consumptive use; the USGS then applies irrigation efficiency coefficients to derive the estimated diversions.

For those water users whose diversions are made from the Topock Marsh Inlet Canal, All-American Canal, or the Gila Gravity Main Canal, diversions include each user's proportionate share of the total canal losses, which are added to the delivery taken by each user at its turnout from the canal. The portion of the canal loss which returns to the mainstream is provided to the water user as a return flow credit.

For the areas downstream of the Northerly International Boundary (NIB), Reclamation does not consider pumping of wells from the flood plain or the underlying aquifer to be a diversion of Colorado River water. This position<sup>1</sup> is based on the following: the ground water can reasonably be assumed to be flowing towards Mexico and therefore, not to be flowing toward the Colorado River upstream of Mexico's point of diversion near NIB. As such, this water does not return to the river to be made available for consumptive use in the United States or in satisfaction of the Mexican Treaty obligation. In accordance with this position, Reclamation discontinued reporting these wells beginning in 2004. If hydrologic conditions change, Reclamation will address the need to report these wells.

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<sup>1</sup> *Summary Description of Accounting for Water Use in the Yuma Area Beginning with Calendar Year 2003*. Available on Reclamation's website at: <http://www.usbr.gov/lc/region/g4000/4200Rpts/YumaWtrAcct.pdf>

**Table 4a. State of Arizona - Records of Diversion, Returns, and Consumptive Use, Calendar Year 2014. (Values are in acre-feet.)**

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
<b>Lake Mead National Recreation Area</b>														
<b>National Park Service</b>														
Lake Mead Diversions at Temple Bar	Diversion	12	10	13	12	14	14	19	17	15	16	13	15	170
	Measured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unmeasured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Consumptive Use	12	10	13	12	14	14	19	17	15	16	13	15	170
<b>Lake Mead National Recreation Area</b>														
<b>National Park Service</b>														
Lake Mohave Diversions	Diversion	10	9	13	18	17	20	23	21	20	19	13	9	192
Katherine Landing and Willow Beach	Measured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unmeasured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Consumptive Use	10	9	13	18	17	20	23	21	20	19	13	9	192
<b>Bureau of Reclamation</b>														
Davis Dam Diversion	Diversion	3	2	2	2	5	4	3	2	2	2	2	2	31
	Measured Returns	2	2	2	2	5	4	3	2	2	2	2	2	30
	Unmeasured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Consumptive Use	1	0	0	0	0	0	0	0	0	0	0	0	1
<b>Bullhead City</b>														
Pumped from wells	Diversion	677	634	690	780	943	1,026	1,037	1,053	974	918	713	806	10,251
Mohave County Parks, Lake Mohave diversion	Diversion	1	0	1	1	1	0	1	0	1	1	0	0	7
	Measured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unmeasured Returns	224	209	228	258	312	339	343	347	322	303	235	266	3,386
	Consumptive Use	454	425	463	523	632	687	695	706	653	616	478	540	6,872
<b>Mohave Water Conservation District</b>														
Pumped from wells	Diversion	65	59	71	81	82	93	112	100	93	92	76	77	1,001
	Measured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unmeasured Returns	21	19	23	27	27	31	37	33	31	30	25	25	329
	Consumptive Use	44	40	48	54	55	62	75	67	62	62	51	52	672
<b>Mohave Valley I.D.D.</b>														
Pumped from wells	Diversion	1,943	1,951	2,924	3,375	3,995	4,631	3,976	3,566	3,058	2,668	2,319	686	35,092
	Measured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unmeasured Returns	894	961	1,516	1,497	1,754	2,189	1,976	1,631	1,410	1,224	1,114	315	16,481
	Consumptive Use	1,049	990	1,408	1,878	2,241	2,442	2,000	1,935	1,648	1,444	1,205	371	18,611
<b>Fort Mojave Indian Reservation</b>														
Pumped from river for agriculture use	Diversion	1,852	6,022	5,343	4,421	8,131	10,960	10,014	6,920	4,528	3,106	2,742	696	64,735
Pumped from wells for domestic use	Diversion	118	43	46	66	68	83	242	254	236	207	256	76	1,695
	Measured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unmeasured Returns	906	3,096	2,532	2,038	3,700	5,130	4,718	3,300	2,234	1,517	1,416	355	30,942
	Consumptive Use	1,064	2,969	2,857	2,449	4,499	5,913	5,538	3,874	2,530	1,796	1,582	417	35,488
<b>Golden Shores Water Conservation District</b>														
Pumped from wells	Diversion	31	25	33	60	38	42	53	42	40	41	27	30	462
	Measured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unmeasured Returns	10	8	11	20	13	14	17	14	13	14	9	10	153
	Consumptive Use	21	17	22	40	25	28	36	28	27	27	18	20	309
<b>Havasu National Wildlife Refuge</b>														
Firebreak Inlet Canal	Diversion	99	412	5,680	6,070	4,590	4,270	3,910	1,520	2,110	1,330	386	2	30,379
Farm Ditch	Diversion <sup>1</sup>	-12	227	1,360	1,142	679	466	402	146	390	301	94	-16	5,179
Pumped from well	Diversion	10	11	15	17	20	25	27	26	20	17	12	12	212
	Measured Returns <sup>2</sup>	0	0	-264	-7	2	0	0	0	0	0	0	0	-269
	Unmeasured Returns	85	572	6,208	6,362	4,654	4,190	3,818	1,489	2,218	1,450	433	0	31,479
	Consumptive Use	12	78	1,111	874	633	571	521	203	302	198	59	-2	4,560

**Table 4a. State of Arizona - Records of Diversion, Returns, and Consumptive Use, Calendar Year 2014. (Values are in acre-feet.)**

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
<b>Lake Havasu City</b>														
Pumped from wells	Diversion	813	825	952	1,012	1,138	1,184	1,314	1,193	1,103	1,080	919	793	12,326
	Measured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unmeasured Returns	309	314	362	385	432	450	499	453	419	410	349	301	4,683
	Consumptive Use	504	511	590	627	706	734	815	740	684	670	570	492	7,643
<b>Central Arizona Project</b>														
Pumped from Lake Havasu	Diversion	84,467	130,265	176,237	177,897	183,603	133,051	92,532	99,382	140,046	134,799	146,606	131,792	1,630,677
	Measured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unmeasured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Consumptive Use	84,467	130,265	176,237	177,897	183,603	133,051	92,532	99,382	140,046	134,799	146,606	131,792	1,630,677
<b>Brooke Water, LLC</b>														
Pumped from river and wells	Diversion	20	23	21	21	29	25	49	29	32	23	21	20	313
	Measured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unmeasured Returns	7	8	7	7	10	8	16	10	11	8	7	7	106
	Consumptive Use	13	15	14	14	19	17	33	19	21	15	14	13	207
<b>Town of Parker</b>														
Pumped from well	Diversion	52	48	59	68	79	82	86	80	71	66	56	46	793
	Measured Returns	18	17	17	16	18	18	20	19	18	18	18	20	217
	Unmeasured Returns	15	14	17	19	23	23	25	23	20	19	16	13	227
	Consumptive Use	19	17	25	33	38	41	41	38	33	29	22	13	349
<b>Colorado River Indian Reservation</b>														
Diversion at Headgate Rock Dam	Diversion	29,640	37,850	50,870	62,990	71,500	66,110	75,310	62,460	49,470	45,930	33,790	29,590	615,510
Pumped from river and wells	Diversion	366	422	559	614	746	873	942	902	728	622	465	436	7,675
	Measured Returns	20,052	18,750	19,152	20,556	23,620	21,080	21,084	24,730	26,134	23,934	22,917	20,511	262,520
	Unmeasured Returns	1,650	2,105	2,829	3,498	3,974	3,684	4,194	3,485	2,761	2,560	1,884	1,651	34,275
	Consumptive Use	8,304	17,417	29,448	39,550	44,652	42,219	50,974	35,147	21,303	20,058	9,454	7,864	326,390
<b>Ehrenburg Improvement Association</b>														
Pumped from river	Diversion	23	19	24	26	26	31	35	25	25	27	22	19	302
	Measured Returns	5	3	7	3	8	6	3	3	1	3	2	2	46
	Unmeasured Returns	7	5	7	7	7	9	10	7	7	8	6	5	85
	Consumptive Use	11	11	10	16	11	16	22	15	17	16	14	12	171
<b>Cibola Valley I.D.D.</b>														
Pumped from river and well	Diversion	770	814	1,067	715	1,094	1,370	1,187	800	779	620	732	650	10,598
	Measured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unmeasured Returns	219	232	304	204	312	390	338	228	222	177	209	185	3,020
	Consumptive Use	551	582	763	511	782	980	849	572	557	443	523	465	7,578
<b>Mohave County Water Authority</b>														
Pumped from river	Diversion	31	128	79	60	119	274	270	118	133	149	80	0	1,441
	Measured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unmeasured Returns	9	36	23	17	34	78	77	34	38	42	23	0	411
	Consumptive Use	22	92	56	43	85	196	193	84	95	107	57	0	1,030
<b>Hopi Tribe</b>														
Pumped from river	Diversion	0	656	53	119	588	961	902	707	609	0	0	305	4,900
	Measured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unmeasured Returns	0	187	15	34	168	274	257	201	174	0	0	87	1,397
	Consumptive Use	0	469	38	85	420	687	645	506	435	0	0	218	3,503
<b>GSC Farm, LLC</b>														
Pumped from river	Diversion	195	104	243	256	314	410	390	282	165	110	175	29	2,673
	Measured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unmeasured Returns	56	30	69	73	89	117	111	80	47	31	50	8	761
	Consumptive Use	139	74	174	183	225	293	279	202	118	79	125	21	1,912

**Table 4a. State of Arizona - Records of Diversion, Returns, and Consumptive Use, Calendar Year 2014. (Values are in acre-feet.)**

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
<b>Arizona Game and Fish Commission</b>														
Pumped from river	Diversion	0	74	394	153	363	342	613	57	0	170	0	0	2,166
	Measured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unmeasured Returns	0	21	112	44	103	97	175	16	0	48	0	0	616
	Consumptive Use	0	53	282	109	260	245	438	41	0	122	0	0	1,550
<b>Cibola National Wildlife Refuge</b>														
Pumped from river	Diversion	535	995	1,216	898	1,309	1,917	1,859	390	1,754	1,285	709	1,105	13,972
	Measured Returns	0	0	128	87	5	0	0	0	0	0	0	0	220
	Unmeasured Returns	203	378	462	341	497	728	706	148	667	488	269	420	5,307
	Consumptive Use	332	617	626	470	807	1,189	1,153	242	1,087	797	440	685	8,445
<b>Imperial National Wildlife Refuge</b>														
Pumped from river	Diversion	3	52	175	185	205	247	272	242	198	7	45	47	1,678
	Measured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unmeasured Returns	1	20	67	70	78	94	103	92	75	3	17	18	638
	Consumptive Use	2	32	108	115	127	153	169	150	123	4	28	29	1,040
<b>U.S. Army Yuma Proving Grounds</b>														
Diversion at Imperial Dam	Diversion	1	0	0	1	1	1	0	2	1	0	0	0	7
Pumped from wells	Diversion	23	17	24	62	32	55	54	43	50	32	9	17	418
	Measured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unmeasured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Consumptive Use	24	17	24	63	33	56	54	45	51	32	9	17	425
<b>Gila Monster Farms</b>														
Diversion at Imperial Dam	Diversion	542	624	951	1,331	1,171	552	358	348	393	793	565	317	7,945
	Measured Returns	32	43	32	26	26	16	7	7	7	11	16	32	255
	Unmeasured Returns	206	237	361	506	445	210	136	132	149	301	215	120	3,018
	Consumptive Use	304	344	558	799	700	326	215	209	237	481	334	165	4,672
<b>Wellton-Mohawk I.D.D.</b>														
Diversion at Imperial Dam	Diversion	21,883	23,213	36,153	42,778	43,781	40,618	39,551	28,464	36,310	32,884	22,615	16,836	385,086
	GGMC Return	1,433	1,771	1,381	922	1,085	1,349	911	640	763	529	720	1,873	13,377
	Dome Return	612	415	323	420	346	251	184	209	266	393	277	300	3,996
	MOD Return <sup>3</sup>	8,490	7,760	9,900	8,840	9,770	9,280	9,310	9,550	8,860	9,770	9,790	10,070	111,390
	Total Returns	10,535	9,946	11,604	10,182	11,201	10,880	10,405	10,399	9,889	10,692	10,787	12,243	128,763
	Unmeasured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Consumptive Use	11,348	13,267	24,549	32,596	32,580	29,738	29,146	18,065	26,421	22,192	11,828	4,593	256,323
<b>City of Yuma</b>														
Diversion at Imperial Dam via AAC	Diversion	1,163	1,002	1,359	1,486	1,624	1,686	1,857	1,657	1,536	1,529	1,347	1,637	17,883
Diversion at Imperial Dam via GGMC	Diversion	784	779	819	726	759	497	197	236	273	366	662	836	6,934
Pumped from river for Yuma East Wetlands	Diversion	11	11	42	72	93	111	115	96	78	31	13	7	680
	Measured Returns	920	837	906	804	869	860	886	894	864	771	759	1,023	10,393
	Unmeasured Returns	4	4	15	25	33	39	40	33	27	11	5	2	238
	Consumptive Use	1,034	951	1,299	1,455	1,574	1,395	1,243	1,062	996	1,144	1,258	1,455	14,866
<b>U.S. Marine Corps Air Station Yuma</b>														
Diversion at Imperial Dam	Diversion	88	74	96	191	138	137	181	173	142	141	102	75	1,538
	Measured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unmeasured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Consumptive Use	88	74	96	191	138	137	181	173	142	141	102	75	1,538
<b>Union Pacific Railroad</b>														
Diversion at Imperial Dam	Diversion	4	4	4	4	4	4	4	4	4	4	4	4	48
	Measured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unmeasured Returns	2	2	2	2	2	2	2	2	2	2	2	2	24
	Consumptive Use	2	2	2	2	2	2	2	2	2	2	2	2	24

**Table 4a. State of Arizona - Records of Diversion, Returns, and Consumptive Use, Calendar Year 2014. (Values are in acre-feet.)**

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
<b>University of Arizona</b>														
Diversion at Imperial Dam	Diversion	24	25	38	62	41	72	81	66	65	65	49	32	620
	Measured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unmeasured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Consumptive Use	24	25	38	62	41	72	81	66	65	65	49	32	620
<b>Yuma Union High School District</b>														
Delivery at East Main Canal	Diversion	8	11	13	17	27	27	29	21	18	5	14	5	195
	Measured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unmeasured Returns	2	3	3	4	7	7	7	5	5	1	4	1	49
	Consumptive Use	6	8	10	13	20	20	22	16	13	4	10	4	146
<b>Desert Lawn Memorial Park</b>														
Delivered by the City of Yuma	Diversion	7	7	9	11	11	10	13	17	15	13	8	8	129
	Measured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unmeasured Returns	2	2	3	3	3	3	4	5	5	4	2	2	38
	Consumptive Use	5	5	6	8	8	7	9	12	10	9	6	6	91
<b>North Gila Valley I.D.D.</b>														
Diversion at Imperial Dam	Diversion	2,680	3,332	3,892	4,623	5,968	5,025	4,711	2,672	3,856	5,191	4,013	2,855	48,818
	Measured Returns	2,147	2,270	2,252	2,358	3,169	2,810	2,702	1,840	2,488	3,155	2,969	2,522	30,682
	Unmeasured Returns	367	456	533	633	818	688	645	366	528	711	550	391	6,686
	Consumptive Use	166	606	1,107	1,632	1,981	1,527	1,364	466	840	1,325	494	-58	11,450
<b>Yuma Irrigation District</b>														
Diversion at Imperial Dam <sup>4</sup>	Diversion	3,951	4,730	7,116	8,807	7,991	6,279	6,151	4,386	5,695	6,324	4,748	3,399	69,577
Pumped from wells	Diversion	10	21	72	117	93	28	28	28	66	35	21	4	523
	Measured Returns	1,100	1,329	1,614	1,720	1,637	1,369	1,260	1,007	1,205	1,290	1,110	1,173	15,814
	Unmeasured Returns	844	1,012	1,531	1,901	1,722	1,343	1,316	940	1,227	1,354	1,016	725	14,931
	Consumptive Use	2,017	2,410	4,043	5,303	4,725	3,595	3,603	2,467	3,329	3,715	2,643	1,505	39,355
<b>Yuma Mesa I.D.D.</b>														
Diversion at Imperial Dam	Diversion	11,785	10,921	14,277	18,083	21,689	22,185	24,486	19,696	17,282	14,390	10,985	8,025	193,804
	Measured Returns <sup>5</sup>	6,977	5,958	3,943	2,592	1,964	5,397	5,252	3,999	5,978	1,609	1,324	3,941	48,934
	Unmeasured Returns	1,886	1,747	2,284	2,893	3,470	3,550	3,918	3,151	2,765	2,302	1,758	1,284	31,008
	Consumptive Use	2,922	3,216	8,050	12,598	16,255	13,238	15,316	12,546	8,539	10,479	7,903	2,800	113,862
<b>Unit "B" I.D.D.</b>														
Diversion at Imperial Dam	Diversion	1,524	1,637	1,779	2,532	2,933	3,418	3,811	2,934	3,129	2,361	1,745	892	28,695
	Measured Returns <sup>5</sup>	1,182	1,022	658	438	316	930	911	689	1,057	280	225	618	8,326
	Unmeasured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Consumptive Use	342	615	1,121	2,094	2,617	2,488	2,900	2,245	2,072	2,081	1,520	274	20,369
<b>Arizona State Land Department</b>														
Pumped from river and wells for agriculture	Diversion	552	600	1,009	1,163	1,192	1,118	1,203	988	772	731	566	460	10,354
Pumped from river and wells for domestic	Diversion	2	4	4	3	3	3	4	4	4	4	3	4	42
	Measured Returns	11	14	11	9	9	5	2	2	2	4	5	11	85
	Unmeasured Returns	194	211	355	408	418	392	422	347	272	257	199	162	3,637
	Consumptive Use	349	379	647	749	768	724	783	643	502	474	365	291	6,674
<b>Fort Yuma Indian Reservation</b>														
Pumped from river for Yuma East Wetlands	Diversion	33	33	88	140	190	226	235	190	148	67	37	20	1,407
Surface delivery to Ranch "5"	Diversion	21	29	52	58	49	55	4	50	21	30	48	19	436
Pumped from wells for domestic use <sup>6</sup>	Diversion	3	2	2	3	3	3	4	2	2	2	2	2	30
	Measured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unmeasured Returns	20	22	50	70	85	99	85	85	60	35	30	14	655
	Consumptive Use	37	42	92	131	157	185	158	157	111	64	57	27	1,218

**Table 4a. State of Arizona - Records of Diversion, Returns, and Consumptive Use, Calendar Year 2014. (Values are in acre-feet.)**

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
<b>Yuma County Water Users' Association</b>														
Diversion at Imperial Dam	Diversion	20,644	23,891	37,855	45,270	34,731	28,514	33,687	17,390	25,189	39,590	30,578	20,434	357,773
Pumped from wells	Diversion	79	123	99	0	98	100	87	71	0	90	89	120	956
	Measured Returns	7,112	8,892	10,543	10,552	10,354	7,904	9,602	6,905	7,524	12,097	13,819	11,634	116,938
	Unmeasured Returns	435	504	797	951	731	601	709	367	529	833	644	432	7,533
	Consumptive Use	13,176	14,618	26,614	33,767	23,744	20,109	23,463	10,189	17,136	26,750	16,204	8,488	234,258
<b>Cocopah Indian Reservation</b>														
Diversion at Imperial Dam	Diversion	106	49	82	78	2	0	0	0	0	0	0	85	402
Pumped from wells <sup>7</sup>	Diversion	106	133	181	196	239	290	316	304	239	201	142	141	2,488
	Measured Returns	4	1	3	2	0	0	0	0	0	0	0	6	16
	Unmeasured Returns	72	62	89	93	82	99	107	103	81	68	48	77	981
	Consumptive Use	136	119	171	179	159	191	209	201	158	133	94	143	1,893
<b>Bureau of Reclamation's Yuma Area Office</b>														
Pumped from well	Diversion	0	0	0	0	0	0	0	0	39	0	0	21	60
	Measured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unmeasured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Consumptive Use	0	0	0	0	0	0	0	0	39	0	0	21	60
<b>Pumped from the South Gila Wells (DPOCs) <sup>8</sup></b>														
	Measured Returns	6,398	3,676	4,609	4,284	4,579	4,984	4,921	4,579	5,313	6,101	5,990	5,600	61,034
	Unmeasured Returns	-6,398	-3,676	-4,609	-4,284	-4,579	-4,984	-4,921	-4,579	-5,313	-6,101	-5,990	-5,600	-61,034
	Consumptive Use	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Other users diverting water from the Colorado River via pumps or wells from Davis Dam to the Northerly International Boundary <sup>9</sup></b>														
	Diversion	585	840	1,330	1,348	1,686	1,747	1,800	1,667	1,204	1,100	789	570	14,666
	Measured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unmeasured Returns	208	298	472	475	597	622	643	596	430	393	281	204	5,219
	Consumptive Use	377	542	858	873	1,089	1,125	1,157	1,071	774	707	508	366	9,447
<b>Arizona Totals</b>														
	<b>Diversion</b>	<b>188,343</b>	<b>253,792</b>	<b>355,486</b>	<b>390,221</b>	<b>404,245</b>	<b>341,272</b>	<b>314,547</b>	<b>261,843</b>	<b>303,131</b>	<b>299,585</b>	<b>269,427</b>	<b>224,052</b>	<b>3,605,944</b>
	<b>Measured Returns</b>	<b>56,495</b>	<b>52,760</b>	<b>55,217</b>	<b>53,624</b>	<b>57,782</b>	<b>56,263</b>	<b>57,058</b>	<b>55,075</b>	<b>60,482</b>	<b>59,967</b>	<b>59,943</b>	<b>59,338</b>	<b>684,004</b>
	<b>Unmeasured Returns</b>	<b>2,460</b>	<b>9,099</b>	<b>16,678</b>	<b>18,581</b>	<b>20,021</b>	<b>20,516</b>	<b>20,533</b>	<b>13,144</b>	<b>11,436</b>	<b>8,503</b>	<b>4,826</b>	<b>1,482</b>	<b>147,279</b>
	<b>Consumptive Use</b>	<b>129,388</b>	<b>191,933</b>	<b>283,591</b>	<b>318,016</b>	<b>326,442</b>	<b>264,493</b>	<b>236,956</b>	<b>193,624</b>	<b>231,213</b>	<b>231,115</b>	<b>204,658</b>	<b>163,232</b>	<b>2,774,661</b>

**Footnotes:**

<sup>1</sup> Diversion values are normally positive. Where negative diversion values occur, water is flowing from the canal to the river.

<sup>2</sup> The South Dike is the point of measured return flow for the Refuge and meter readings will normally indicate a positive flow of water from the Refuge into the river. If the flow reverses and water flows into the Refuge instead, a negative value will be recorded.

<sup>3</sup> MOD return flow credit is the measured flow at Station 0+00. When comparing this return value to the "Water Bypassed Pursuant to IBWC Minute No. 242", differences can result due to a combination of transmission loss, DPOC and Yuma Mesa Conduit discharge into the MODE, MODE water that has been desalinated, and MODE water discharged to the river. During periods of sustained flow in the Gila River this measurement may include both Colorado River and Gila River water. At such times Reclamation will determine how best to differentiate return flows from the two sources.

<sup>4</sup> Diversion does not include water delivered to users (George Ogram, Ogram Boys' Enterprises, and some ASLD lands) located outside of District boundaries. Diversions for George Ogram and Ogram Boys' Enterprises appear in Table 4b.

<sup>5</sup> YMIDD receives 85 percent of the return flows from the Yuma Mesa Conduit Outlet and the Protective and Regulatory Pumping Unit; Unit B receives the remaining 15 percent.

Yuma Mesa Conduit Outlet Flows = 16,948 AF

Protective and Regulatory Pumping Unit = 30,040 AF

<sup>6</sup> Diversion is an estimate of the amount of domestic water required by FYIR, AZ.

<sup>7</sup> Diversion amounts include pumpage from wells AEW-15, 16, and the Cocopah Bend R.V. Park. The reported diversion includes deliveries to the Cocopah Tribe's Trust lands and 467 AF to the Tribe's Fee lands located within PPR No. 7.

<sup>8</sup> Until comprehensive modeling of the Yuma area to determine how unmeasured returns are affected by pumping of the DPOC wellfield is complete, this pumpage is added to Arizona's measured returns and subtracted from Arizona's unmeasured returns.

<sup>9</sup> Details are found in Table 4b.

**Table 4b. State of Arizona - Supplemental Tabulation, Calendar Year 2014. (Values are in acre-feet.)**

WATER USER	USGS Well #	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
<b>Lee Ferry to Davis Dam</b>														
Marble Canyon Company		1	1	1	1	1	1	2	1	2	1	1	0	13
<b>Subtotal</b>	Diversion	1	1	1	1	1	1	2	1	2	1	1	0	13
	Measured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unmeasured Returns	0	0	0	0	0	0	1	1	1	1	0	0	4
	Consumptive Use	1	1	1	1	1	1	1	0	1	0	1	0	9
<b>Davis Dam to Parker Dam</b>														
McAlister Family Trust		0	0	1	1	1	1	1	1	1	1	1	1	10
Crystal Beach Water Conservation District		7	7	8	9	10	11	11	11	10	10	9	8	111
EPCOR		54	48	55	58	62	73	66	69	63	60	55	49	712
Arizona State Parks (Windsor Beach)		2	1	1	2	2	2	2	3	2	2	1	1	21
<b>Subtotal</b>	Diversion	63	56	65	70	75	87	80	84	76	73	66	59	854
	Measured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unmeasured Returns	22	19	22	24	28	32	29	30	27	24	22	20	299
	Consumptive Use	41	37	43	46	47	55	51	54	49	49	44	39	555
<b>Parker Dam to Imperial Dam</b>														
Hillcrest Water Company		1	1	1	1	1	2	2	2	1	1	1	1	15
Springs Del Sol Domestic Water Improvement District		0	0	1	1	0	0	1	1	0	1	0	0	5
Rayner Ranches	AEP-9, AEW-35	0	281	362	363	625	725	725	644	463	197	82	0	4,467
North Baja Pipeline		8	16	28	32	28	39	49	29	22	17	4	11	283
BLM Permittees (LHFO and YFO)		45	49	77	78	74	118	98	78	78	75	54	49	873
Fisher's Landing Water and Sewer, LLC		1	3	2	1	1	2	1	1	1	1	1	1	16
Shepard Water Company		1	1	1	2	2	2	2	2	2	2	1	1	19
<b>Subtotal</b>	Diversion	56	351	472	478	731	888	878	757	567	294	143	63	5,678
	Measured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unmeasured Returns	20	122	165	167	256	312	309	265	198	103	49	21	1,987
	Consumptive Use	36	229	307	311	475	576	569	492	369	191	94	42	3,691
<b>Below Imperial Dam</b>														
JRJ Partners, LLC	AEP-1, AEW-3	31	38	91	112	101	86	121	100	39	115	109	116	1,059
Cha Cha, LLC	AEP-2/3, AEW-4/5, ADW-3	106	97	165	184	218	252	262	222	195	134	110	66	2,011
Beattie Farms Southwest (Russell Youmans)	ADW-2	104	56	100	63	148	24	0	96	56	173	107	73	1,000
BLM Permittees (YFO)		1	6	14	9	8	3	3	4	7	7	10	75	
BLM (leased by L. Pratt) <sup>1</sup>		18	22	30	33	40	49	53	51	40	34	24	24	418
George Ogram <sup>2</sup>	AEW-9	38	33	27	32	73	71	77	79	0	49	0	0	479
Ogram Boys' Enterprises <sup>2</sup>		44	35	189	222	138	58	77	41	0	27	67	19	917
John Peach (City of Yuma) <sup>1</sup>	AEW-13, 48	15	18	25	27	33	40	43	42	33	28	19	19	342
Arizona Public Service Company		46	45	49	27	17	55	60	58	38	53	48	45	541
BLM (leased by Monty Lee) <sup>1</sup>	AEW-14, ADP-1	12	14	20	21	26	32	34	33	26	22	16	15	271
Armon Curtis <sup>1</sup>	AEP-4	10	12	17	18	23	27	30	29	23	19	13	13	234
Power <sup>1</sup>	ADP-3/4	8	11	14	15	19	23	25	24	19	16	11	11	196
Griffin Ranches <sup>1</sup>		6	7	10	10	13	15	17	16	13	11	8	7	133
Milton Phillips <sup>1</sup>		6	8	11	12	15	18	19	19	15	12	9	8	152
Victor Power <sup>1</sup>		1	1	2	2	3	3	3	3	3	2	2	2	27
Gary Pasquinelli	ADP-5	19	29	28	12	4	15	16	9	55	30	29	20	266
<b>Subtotal</b>	Diversion	465	432	792	799	879	771	840	825	559	732	579	448	8,121
	Measured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unmeasured Returns	166	157	285	284	313	278	304	300	204	265	210	163	2,929
	Consumptive Use	299	275	507	515	566	493	536	525	355	467	369	285	5,192
<b>Total Arizona Supplemental Tabulation</b>														
	Diversion	585	840	1,330	1,348	1,686	1,747	1,800	1,667	1,204	1,100	789	570	14,666
	Measured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unmeasured Returns	208	298	472	475	597	622	643	596	430	393	281	204	5,219
	Consumptive Use	377	542	858	873	1,089	1,125	1,157	1,071	774	707	508	366	9,447

**Footnotes:**

<sup>1</sup> Calculated by the USGS using field crop verification and ET methodologies. See Significant Documents section of this report for further information.

<sup>2</sup> George Ogram and Ogram Boys' Enterprises have water wheeled to them by YID from the GGMC.

**Table 5a. State of California - Records of Diversion, Returns, and Consumptive Use, Calendar Year 2014. (Values are in acre-feet.)**

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
<b>Fort Mojave Indian Reservation</b>														
Pumped from river for agriculture use	Diversion	485	1,097	1,800	1,808	1,895	1,498	1,707	1,324	1,152	1,480	855	1,359	16,460
Pumped from wells for domestic use	Diversion	3	3	3	5	6	8	5	4	4	4	2	2	49
	Measured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unmeasured Returns	225	508	833	838	878	696	791	614	534	686	396	629	7,628
	Consumptive Use	263	592	970	975	1,023	810	921	714	622	798	461	732	8,881
<b>City of Needles</b>														
Pumped from wells <sup>1</sup>	Diversion	126	130	179	185	197	224	230	179	133	177	166	115	2,041
	Measured Returns	26	24	28	27	26	25	29	28	26	26	25	25	315
	Unmeasured Returns	2	2	3	2	2	2	3	3	2	2	2	2	27
	Consumptive Use	98	104	148	156	169	197	198	148	105	149	139	88	1,699
<b>Chemehuevi Indian Reservation</b>														
Pumped from river and wells	Diversion	12	9	18	18	23	32	32	33	17	18	19	15	246
	Measured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unmeasured Returns	6	4	8	8	11	15	15	15	8	8	9	7	114
	Consumptive Use	6	5	10	10	12	17	17	18	9	10	10	8	132
<b>Metropolitan Water District</b>														
Pumped from Lake Havasu	Diversion	100,886	48,534	89,762	104,968	110,487	95,067	105,428	106,116	101,854	105,189	102,029	108,774	1,179,094
	Measured Returns	288	255	228	220	220	227	214	213	204	225	221	245	2,760
	Unmeasured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Consumptive Use	100,598	48,279	89,534	104,748	110,267	94,840	105,214	105,903	101,650	104,964	101,808	108,529	1,176,334
<b>Bureau of Reclamation and Government Camp</b>														
Diversion at Parker Dam <sup>1</sup>	Diversion	3	1	1	1	1	12	23	17	6	0	0	0	65
	Measured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unmeasured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Consumptive Use	3	1	1	1	1	12	23	17	6	0	0	0	65
<b>Colorado River Indian Reservation</b>														
Pumped from river and wells	Diversion	206	257	351	379	463	562	613	590	464	389	276	271	4,821
Pumped from wells for Big River Development	Diversion	32	32	39	47	57	64	62	53	53	48	46	31	564
	Measured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unmeasured Returns	99	120	163	178	217	261	281	268	215	182	134	126	2,244
	Consumptive Use	139	169	227	248	303	365	394	375	302	255	188	176	3,141
<b>Palo Verde Irrigation District</b>														
Diversion at Palo Verde Dam	Diversion	43,700	58,150	80,520	94,280	112,400	113,700	114,200	80,800	88,300	68,430	49,860	44,290	948,630
	Measured Returns	33,558	35,260	39,800	39,702	42,408	40,973	44,820	42,227	38,942	40,157	36,954	36,146	470,947
	Unmeasured Returns	2,447	3,256	4,509	5,280	6,294	6,367	6,395	4,525	4,945	3,832	2,792	2,480	53,122
	Consumptive Use	7,695	19,634	36,211	49,298	63,698	66,360	62,985	34,048	44,413	24,441	10,114	5,664	424,561
<b>Yuma Project Reservation Division</b>														
<b>Indian Unit</b>														
Diversion at Imperial Dam	Diversion	2,276	2,820	5,812	7,720	5,592	3,194	1,992	5,444	2,083	4,215	3,611	2,436	47,195
Pumped from wells for domestic use <sup>2</sup>	Diversion	34	42	58	63	76	93	101	97	77	64	45	45	795
	Measured Returns	72	58	157	130	106	70	53	160	93	126	133	164	1,322
	Unmeasured Returns	386	478	980	1,300	947	549	350	925	361	715	611	414	8,016
<b>Bard Unit</b>														
Diversion at Imperial Dam	Diversion	2,966	2,632	5,442	5,721	5,373	5,567	4,795	3,918	4,490	3,985	3,728	2,463	51,080
	Measured Returns	52	29	81	52	59	71	69	76	100	66	75	93	823
	Unmeasured Returns	495	440	909	955	897	930	801	654	750	665	623	411	8,530
<b>Total Yuma Project Reservation Division Measured Returns <sup>3</sup></b>		1,020	1,474	2,393	2,140	2,202	2,137	2,244	2,054	2,590	2,492	2,349	1,714	24,809
<b>Total Yuma Project Reservation Division Consumptive Use</b>		3,251	3,015	6,792	8,927	6,830	5,097	3,371	5,590	2,756	4,200	3,593	2,148	55,570

**Table 5a. State of California - Records of Diversion, Returns, and Consumptive Use, Calendar Year 2014. (Values are in acre-feet.)**

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
<b>City of Winterhaven</b>														
Pumped from well	Diversion	9	8	8	8	8	8	8	7	7	7	7	6	91
	Measured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unmeasured Returns	3	3	3	3	3	3	3	2	2	2	2	2	31
	Consumptive Use	6	5	5	5	5	5	5	5	5	5	5	4	60
<b>Imperial Irrigation District</b>														
Diversion at Imperial Dam	Diversion	112,654	147,221	240,771	267,407	300,923	283,010	291,138	215,476	199,711	192,825	153,596	91,696	2,496,428
	Measured Returns	5,619	4,790	10,357	7,256	9,408	10,359	12,597	10,734	12,946	9,129	8,781	9,405	111,381
	Unmeasured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
Delivery from Warren H. Brock Reservoir <sup>4</sup>	Consumptive Use	11,058	10,616	16,225	15,509	10,630	12,758	9,854	12,776	13,049	13,877	7,599	14,416	148,367
Total IID Consumptive Use	Total Consumptive Use	118,093	153,047	246,639	275,660	302,145	285,409	288,395	217,518	199,814	197,573	152,414	96,707	2,533,414
Water Transferred to SDCWA for Mitigation <sup>5</sup>	Diversion	13,691	5,624	7,829	7,248	4,850	5,386	6,270	8,383	3,074	9,831	10,447	11,404	94,037
	Measured Returns	683	183	337	197	152	197	271	418	199	465	597	1,170	4,869
	Consumptive Use	13,008	5,441	7,492	7,051	4,698	5,189	5,999	7,965	2,875	9,366	9,850	10,234	89,168
<b>Coachella Valley Water District</b>														
Diversion at Imperial Dam	Diversion	21,442	21,807	28,378	34,395	34,607	35,750	39,344	37,152	31,932	29,920	28,556	23,496	366,779
	Measured Returns	1,070	710	1,221	933	1,082	1,309	1,702	1,851	2,070	1,416	1,633	2,410	17,407
	Unmeasured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Consumptive Use	20,372	21,097	27,157	33,462	33,525	34,441	37,642	35,301	29,862	28,504	26,923	21,086	349,372
<b>Other users diverting water from the Colorado River via pumps or wells from Davis Dam to the Northerly International Boundary <sup>6</sup></b>														
	Diversion	579	719	1,009	1,102	1,285	1,555	1,579	1,604	1,220	1,050	810	744	13,256
	Measured Returns	9	11	15	16	20	24	26	25	20	17	12	12	207
	Unmeasured Returns	248	309	438	476	554	664	677	693	529	455	351	318	5,712
	Consumptive Use	322	399	556	610	711	867	876	886	671	578	447	414	7,337
<b>California Totals</b>														
	<b>DIVERSION</b>	<b>299,104</b>	<b>289,086</b>	<b>461,980</b>	<b>525,355</b>	<b>578,243</b>	<b>545,730</b>	<b>567,527</b>	<b>461,197</b>	<b>434,577</b>	<b>417,632</b>	<b>354,053</b>	<b>287,147</b>	<b>5,221,631</b>
	<b>MEASURED RETURNS</b>	<b>42,397</b>	<b>42,794</b>	<b>54,617</b>	<b>50,673</b>	<b>55,683</b>	<b>55,392</b>	<b>62,025</b>	<b>57,786</b>	<b>57,190</b>	<b>54,119</b>	<b>50,780</b>	<b>51,384</b>	<b>634,840</b>
	<b>UNMEASURED RETURNS</b>	<b>3,911</b>	<b>5,120</b>	<b>7,846</b>	<b>9,040</b>	<b>9,803</b>	<b>9,487</b>	<b>9,316</b>	<b>7,699</b>	<b>7,346</b>	<b>6,547</b>	<b>4,920</b>	<b>4,389</b>	<b>85,424</b>
	<b>CONSUMPTIVE USE</b>	<b>263,854</b>	<b>251,788</b>	<b>415,742</b>	<b>481,151</b>	<b>523,387</b>	<b>493,609</b>	<b>506,040</b>	<b>408,488</b>	<b>383,090</b>	<b>370,843</b>	<b>305,952</b>	<b>245,790</b>	<b>4,649,734</b>

**Footnotes:**

<sup>1</sup> All or a portion of this Colorado River use is offset by pumping from the LCWSP. Details shown in Table 16.

<sup>2</sup> Diversion is an estimate of the amount of domestic water required by YPRD Indian Unit.

<sup>3</sup> Unassigned measured returns include drainage from the Indian Unit and the Bard Unit in the Reservation Division but excludes seepage from the AAC.

<sup>4</sup> Colorado River water captured in the Warren H. Brock Reservoir and delivered to IID as consumptive use. Flow measurement is made at the Brock Reservoir outlet channel, Station 21+36.

<sup>5</sup> This entry represents water conserved by IID and transferred to SDCWA for Salton Sea mitigation purposes in accordance with the CRWDA, Exhibit B, Column 7, and the IID/SDCWA Water Transfer Agreement, as amended.

<sup>6</sup> Details are found in Table 5b.

**Table 5b. State of California - Supplemental Tabulation, Calendar Year 2014. (Values are in acre-feet.)**

WATER USER	USGS Well #	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
<b>Davis Dam to Parker Dam</b>														
Southern California Gas <sup>1</sup>		0	0	1	3	8	16	17	11	8	3	0	0	67
Pacific Gas & Electric Company <sup>1</sup>		9	11	15	16	20	24	26	25	20	17	12	12	207
Havasu Water Company <sup>1</sup>		2	2	3	3	3	4	4	4	3	3	2	2	35
Vista Del Lago <sup>1</sup>		0	0	1	1	1	1	1	1	1	1	1	1	10
Wells reported under non-Federal subcontracts to LCWSP <sup>1</sup>		13	16	22	23	28	35	37	36	28	24	17	17	296
Wetmore, Kenneth C.		0	0	0	0	1	1	1	1	1	0	0	0	5
Williams, Jerry O. & Deloris P.		0	0	0	0	0	0	1	0	0	0	0	0	1
Carney, Jerome D.		0	0	0	0	0	0	0	0	0	0	0	0	0
Wetmore, Mark M.		0	0	1	1	1	1	1	1	1	1	1	0	9
<b>Subtotal</b>	Diversion	24	29	43	47	62	82	88	79	62	49	33	32	630
	Measured Returns <sup>2</sup>	9	11	15	16	20	24	26	25	20	17	12	12	207
	Unmeasured Returns	6	7	11	10	13	16	20	18	14	12	8	8	143
	Consumptive Use	9	11	17	21	29	42	42	36	28	20	13	12	280
<b>Parker Dam to Imperial Dam</b>														
Citrus Ranch (C.L. Lye)	CEW-16	0	0	0	0	0	0	0	0	0	0	0	0	0
Lake Enterprises		0	0	0	0	0	0	0	0	0	0	0	0	0
BLM Permittees <sup>1</sup>		28	21	27	36	31	34	46	29	27	25	23	33	360
<b>Subtotal</b>	Diversion	28	21	27	36	31	34	46	29	27	25	23	33	360
	Measured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unmeasured Returns	6	5	6	10	7	8	11	7	7	7	6	7	87
	Consumptive Use	22	16	21	26	24	26	35	22	20	18	17	26	273
<b>Below Imperial Dam</b>														
<b>Fort Yuma Indian Reservation</b>														
Living Earth Farm <sup>3</sup>	CEW-2, CDP-3	51	64	87	94	115	139	152	146	115	96	69	67	1,195
MivCo Packing <sup>3</sup>	CEW-14	29	37	50	54	66	81	88	85	66	56	40	39	691
Valdez, Mike <sup>3</sup>	CDP-1,2, CEW-01, CEW-15	70	88	120	129	158	192	209	201	158	132	94	93	1,644
Ranch "5" Lands, Yuma Island, CA	AAC diversion	46	65	116	130	108	122	8	114	46	66	107	42	970
Huerta Packing <sup>3</sup>	CDP-6/7	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Sum of Pumping - FYIR, CA</b>	Diversion	196	254	373	407	447	534	457	546	385	350	310	241	4,500
	Unmeasured Returns	88	113	168	182	200	238	204	244	172	157	139	107	2,012
<b>Yuma Island in CA</b>														
Arizona State Land Department Trust Lands <sup>3</sup>	Diversion	331	415	566	612	745	905	988	950	746	626	444	438	7,766
	Unmeasured Returns	148	184	253	274	334	402	442	424	336	279	198	196	3,470
<b>Subtotals below Imperial Dam</b>	Diversion	527	669	939	1,019	1,192	1,439	1,445	1,496	1,131	976	754	679	12,266
	Measured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unmeasured Returns	236	297	421	456	534	640	646	668	508	436	337	303	5,482
	Consumptive Use	291	372	518	563	658	799	799	828	623	540	417	376	6,784
<b>Total California Supplemental Tabulation</b>	Diversion	579	719	1,009	1,102	1,285	1,555	1,579	1,604	1,220	1,050	810	744	13,256
	Measured Returns	9	11	15	16	20	24	26	25	20	17	12	12	207
	Unmeasured Returns	248	309	438	476	554	664	677	693	529	455	351	318	5,712
	Consumptive Use	322	399	556	610	711	867	876	886	671	578	447	414	7,337

**Footnotes:**

<sup>1</sup> Tabulated use is offset by pumping from the LCWSP. Details shown in Table 16.

<sup>2</sup> This measured return is provided to Pacific Gas & Electric Company alone for water that has been diverted and reinjected as part of its Topock Groundwater Remediation Project.

<sup>3</sup> Calculated by the USGS using field crop verification and ET methodologies. Points of diversion for the Yuma Island in CA are AEP-02, AEP-03, AEW-04, AEW-05, ADW-03, CEP-01, CEP-02, CDW-02, CDW-05, CDW-07, CDW-08, CEW-07, CEW-09, CEW-12, CEW-13. See the USGS maps in the Significant Documents section.

**Table 6. State of Nevada - Records of Diversion, Returns, and Consumptive Use, Calendar Year 2014. (Values are in acre-feet.)**

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
<b>Bureau of Reclamation</b>														
Hoover Dam Diversion	Diversion	2	2	3	4	5	2	4	4	4	3	3	3	39
	Measured Returns	1	1	1	2	1	1	2	2	1	2	1	1	16
	Unmeasured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Consumptive Use	1	1	2	2	4	1	2	2	3	1	2	2	23
<b>Robert B. Griffith Water Project</b>														
Pumped from Lake Mead	Diversion	24,892	23,532	31,547	35,088	43,851	41,504	42,967	40,439	35,581	37,584	28,860	24,192	410,037
<b>Lake Mead National Recreation Area</b>														
<b>National Park Service</b>														
Pumped from Lake Mead	Diversion	33	28	32	35	40	37	46	34	35	30	23	30	403
	Measured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unmeasured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Consumptive Use	33	28	32	35	40	37	46	34	35	30	23	30	403
<b>Basic Water Company</b>														
Pumped from Lake Mead	Diversion	466	417	365	400	505	524	657	682	552	688	502	430	6,188
	Measured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unmeasured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Consumptive Use	466	417	365	400	505	524	657	682	552	688	502	430	6,188
<b>City of Henderson</b>														
Pumped from Lake Mead	Diversion	1,103	985	1,179	1,465	1,705	1,194	1,167	1,339	1,206	1,569	1,057	1,145	15,114
	Measured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unmeasured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Consumptive Use	1,103	985	1,179	1,465	1,705	1,194	1,167	1,339	1,206	1,569	1,057	1,145	15,114
<b>Nevada Department of Fish and Game</b>														
Pumped from Lake Mead	Diversion	30	62	31	35	32	30	30	30	32	33	30	30	405
	Measured Returns	29	61	30	35	31	29	29	29	32	32	29	29	395
	Unmeasured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Consumptive Use	1	1	1	0	1	1	1	1	0	1	1	1	10
<b>Pacific Coast Building Products</b>														
Pumped from Lake Mead	Diversion	87	74	55	57	62	62	77	80	68	74	72	67	835
	Measured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unmeasured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Consumptive Use	87	74	55	57	62	62	77	80	68	74	72	67	835
<b>Las Vegas Wash Return Flow <sup>1</sup></b>														
	Returns	18,663	17,254	19,694	16,663	16,509	15,775	17,890	19,175	18,187	18,651	17,035	17,403	212,899
<b>National Park Service</b>														
Pumped from Lake Mohave - Cottonwood Cove	Diversion	11	11	12	11	13	14	16	15	13	12	13	11	152
	Measured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unmeasured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Consumptive Use	11	11	12	11	13	14	16	15	13	12	13	11	152
<b>Big Bend Water District</b>														
Pumped from river	Diversion	261	250	306	347	381	410	450	424	372	353	291	233	4,078
	Measured Returns	132	140	163	169	166	169	198	188	164	157	143	130	1,919
	Unmeasured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Consumptive Use	129	110	143	178	215	241	252	236	208	196	148	103	2,159
<b>Big Bend Conservation Area</b>														
Pumped from wells	Diversion	0	0	0	0	0	0	0	0	0	0	0	0	0
	Measured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unmeasured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Consumptive Use	0	0	0	0	0	0	0	0	0	0	0	0	0

**Table 6. State of Nevada - Records of Diversion, Returns, and Consumptive Use, Calendar Year 2014. (Values are in acre-feet.)**

<b>WATER USER</b>		<b>JAN</b>	<b>FEB</b>	<b>MAR</b>	<b>APR</b>	<b>MAY</b>	<b>JUN</b>	<b>JUL</b>	<b>AUG</b>	<b>SEP</b>	<b>OCT</b>	<b>NOV</b>	<b>DEC</b>	<b>TOTAL</b>
<b>Fort Mojave Indian Reservation</b>														
Pumped from wells	Diversion	104	184	509	434	458	410	584	299	69	535	105	182	3,873
	Measured Returns	0	0	0	0	0	0	0	0	0	0	0	0	0
	Unmeasured Returns	34	61	168	143	151	135	193	99	23	177	35	60	1,279
	Consumptive Use	70	123	341	291	307	275	391	200	46	358	70	122	2,594
<b>Nevada Totals</b>														
	Diversion	26,989	25,545	34,039	37,876	47,052	44,187	45,998	43,346	37,932	40,881	30,956	26,323	441,124
	Measured Returns	18,825	17,456	19,888	16,869	16,707	15,974	18,119	19,394	18,384	18,842	17,208	17,563	215,229
	Unmeasured Returns	34	61	168	143	151	135	193	99	23	177	35	60	1,279
	Consumptive Use	8,130	8,028	13,983	20,864	30,194	28,078	27,686	23,853	19,525	21,862	13,713	8,700	224,616

<b>Nevada Colorado River Storage in Local Aquifer <sup>2</sup></b>		<b>JAN</b>	<b>FEB</b>	<b>MAR</b>	<b>APR</b>	<b>MAY</b>	<b>JUN</b>	<b>JUL</b>	<b>AUG</b>	<b>SEP</b>	<b>OCT</b>	<b>NOV</b>	<b>DEC</b>	<b>TOTAL</b>
Las Vegas Valley Water District	BOY Balance													349,064
	Injected	0	0	0	0	0	0	0	0	0	0	0	0	0
	Withdrawn	0	0	0	0	0	0	0	0	85	254	102	49	490
	EOY Balance													348,574
City of North Las Vegas	BOY Balance													11,843
	Injected	0	0	0	0	0	0	0	0	0	0	0	0	0
	Withdrawn	0	0	0	0	0	0	0	0	0	0	0	0	0
	EOY Balance													11,843
<b>Total</b>	<b>BOY Cumulative Injected Storage</b>													<b>360,907</b>
	<b>Total Current Year Injection</b>													<b>0</b>
	<b>Total Current Year Withdrawals</b>													<b>490</b>
	<b>EOY Cumulative Injected Storage</b>													<b>360,417</b>

**Footnotes:**

<sup>1</sup> Estimated return based on historic use method adopted by the Task Force on Unmeasured Return Flows on August 28, 1984, and revised as noted in the Reclamation letter to SNWA and CRCN dated December 5, 2007.

<sup>2</sup> Colorado River water injected into groundwater storage is accounted for as a consumptive use in the year in which it is diverted from the Colorado River. It will not be accounted for as a consumptive use in the year in which it is withdrawn from storage, but because it originated as Colorado River water it will be accounted for as a return flow credit in the year in which it returns to the Colorado River.

## **ARTICLE V(C): RECORDS FOR THE DISPOSITION OF WATER ORDERED BUT NOT DIVERTED**

In accordance with Article V(C) of the Consolidated Decree, Tables 7 and 8 document records of releases of mainstream water pursuant to orders therefor but not diverted by the party ordering the same, and the quantity of such water delivered to Mexico in satisfaction of the 1944 Mexican Water Treaty or diverted by others in satisfaction of decreed rights.

In addition to the requirements of the Decree, the tabulations provided herewith also document quantities of such water passing to Mexico in excess of treaty requirements and quantities captured in storage in federally-operated facilities.

Water ordered but not diverted is the difference between the approved daily order and the mean daily delivery on the day the diversion was made. Daily orders are provided to Reclamation in advance of the delivery date by the amount of time required for water to travel between the storage location and the user's point of diversion from the mainstream.

To the extent possible, water ordered but not diverted was delivered to other diverters in satisfaction of their water rights. Any remaining water ordered but not diverted was distributed between delivery to storage, delivery to Mexico in satisfaction of treaty requirements and finally, to Mexico in excess of treaty requirements.

The water users listed in this tabulation are major water users from whom Reclamation receives a daily water order and, with the exception of CAP and MWD, are those that divert their water downstream of Parker Dam. Currently, no daily orders are received from Nevada for diversion from the Colorado River therefore no Nevada tabulation is made. In addition, the storage capacity of Lake Mead is large enough in relation to Nevada's daily diversions from the reservoir that any water ordered but not diverted would be retained for future use and would not pass to Mexico in excess of treaty requirements.

The "Passing to Mexico in Excess of Treaty" values displayed in this section of the report reflect the sum of the daily amounts of water passing to Mexico in excess of the daily treaty amount, according to IBWC's schedule, resulting from water that had been ordered but not diverted. The "To Mexico in Excess of Treaty" values displayed in the Article V (D) section reflect all water under/over delivered to Mexico according to IBWC's schedule. The information provided in Article V(C) is unrelated to information provided in Article V(D) and comparisons between the tabulations should not be made.

**Table 7. State of Arizona - Disposition of Water Ordered but not Diverted, Calendar Year 2014. (Values are in acre-feet.)**

WATER USER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
<b>Central Arizona Project - Diversion at Lake Havasu</b>													
Ordered but not Diverted	160	1,225	2,160	0	0	1,917	0	0	0	0	0	0	5,462
Delivered to Mexico in Satisfaction of Treaty													
Diverted by Others													
Delivered to Storage <sup>1</sup>	160	1,225	2,160	0	0	1,917	0	0	0	0	0	0	5,462
Passing to Mexico in Excess of Treaty													
<b>Colorado River Indian Reservation - Diversion at Headgate Rock Dam</b>													
Ordered but not Diverted	3,178	3,227	4,850	5,346	3,717	12,480	5,633	4,312	5,367	3,475	2,142	3,713	57,440
Delivered to Mexico in Satisfaction of Treaty	1,932	1,769	2,055	2,929	2,090	5,947	3,099	2,471	2,813	2,011	1,406	1,908	30,432
Diverted by Others	682	1,133	2,004	1,549	978	5,042	2,013	915	1,231	504	303	1,539	17,894
Delivered to Storage <sup>2</sup>	512	197	660	604	526	1,251	380	226	1,101	308	266	165	6,196
Passing to Mexico in Excess of Treaty	51	127	131	264	122	240	141	700	222	652	167	100	2,918
<b>North Gila Valley I.D.D. - Diversion at Imperial Dam</b>													
Ordered but not Diverted	672	439	748	583	1,126	1,552	1,139	563	329	282	269	349	8,052
Delivered to Mexico in Satisfaction of Treaty	436	252	474	363	768	963	844	359	206	185	206	206	5,262
Diverted by Others	135	141	165	107	209	428	215	71	92	47	38	79	1,727
Delivered to Storage <sup>2</sup>	78	33	88	84	141	125	51	17	7	9	5	40	678
Passing to Mexico in Excess of Treaty	23	13	22	29	8	35	29	116	25	42	20	23	385
<b>Gila Monster Farms - Diversion at Imperial Dam</b>													
Ordered but not Diverted	295	270	225	126	95	144	192	418	436	201	305	314	3,021
Delivered to Mexico in Satisfaction of Treaty	173	172	56	66	53	109	147	266	224	106	196	191	1,760
Diverted by Others	79	73	114	44	19	24	30	49	101	28	53	92	705
Delivered to Storage <sup>2</sup>	33	13	51	13	22	8	11	28	88	27	37	22	352
Passing to Mexico in Excess of Treaty	10	11	5	3	1	3	4	75	22	41	19	10	204
<b>Wellton-Mohawk I.D.D. - Diversion at Imperial Dam</b>													
Ordered but not Diverted	1,478	1,925	2,006	5,471	2,523	1,928	2,663	6,497	2,024	1,499	1,935	1,583	31,531
Delivered to Mexico in Satisfaction of Treaty	874	1,148	1,398	2,816	1,599	937	1,950	3,626	1,124	905	1,332	1,270	18,979
Diverted by Others	162	500	357	1,252	531	706	416	878	381	137	192	231	5,744
Delivered to Storage <sup>2</sup>	338	160	165	842	268	188	203	310	428	172	234	53	3,362
Passing to Mexico in Excess of Treaty	104	117	85	561	124	97	93	1,683	90	285	177	30	3,446
<b>Yuma Irrigation District - Diversion at Imperial Dam</b>													
Ordered but not Diverted	500	282	747	583	846	832	827	856	250	438	153	464	6,777
Delivered to Mexico in Satisfaction of Treaty	305	218	432	369	519	531	626	516	169	239	97	334	4,354
Diverted by Others	123	51	226	133	182	229	100	109	49	59	29	76	1,366
Delivered to Storage <sup>2</sup>	61	8	62	15	98	52	79	63	13	61	18	46	577
Passing to Mexico in Excess of Treaty	11	5	27	66	46	20	22	169	19	78	10	8	481
<b>Yuma Mesa I.D.D. - Diversion at Imperial Dam</b>													
Ordered but not Diverted	3,313	2,274	2,083	1,846	2,498	3,871	3,570	2,762	2,675	2,285	1,280	1,671	30,128
Delivered to Mexico in Satisfaction of Treaty	2,567	1,370	1,113	887	1,620	2,406	2,472	1,801	1,704	1,391	1,077	1,354	19,762
Diverted by Others	492	647	636	637	438	961	780	366	620	327	72	82	6,058
Delivered to Storage <sup>2</sup>	167	118	279	254	380	444	202	272	172	158	72	180	2,696
Passing to Mexico in Excess of Treaty	87	139	55	69	60	60	116	324	180	408	59	55	1,612

**Table 7. State of Arizona - Disposition of Water Ordered but not Diverted, Calendar Year 2014. (Values are in acre-feet.)**

<b>WATER USER</b>	<b>JAN</b>	<b>FEB</b>	<b>MAR</b>	<b>APR</b>	<b>MAY</b>	<b>JUN</b>	<b>JUL</b>	<b>AUG</b>	<b>SEP</b>	<b>OCT</b>	<b>NOV</b>	<b>DEC</b>	<b>TOTAL</b>
<b>Unit "B" I.D.D. - Diversion at Imperial Dam</b>													
Ordered but not Diverted	1,777	930	1,037	729	737	438	273	583	444	1,086	1,095	620	9,749
Delivered to Mexico in Satisfaction of Treaty	1,217	551	425	330	303	275	213	386	308	602	698	392	5,700
Diverted by Others	313	282	451	288	269	140	32	67	82	169	198	123	2,414
Delivered to Storage <sup>2</sup>	189	60	144	92	128	8	23	66	43	130	53	81	1,017
Passing to Mexico in Excess of Treaty	58	37	16	20	37	15	6	65	10	186	145	23	619
<b>Yuma County Water Users' Association - Diversion at Imperial Dam</b>													
Ordered but not Diverted	3,278	2,477	2,653	1,500	5,930	1,689	1,890	6,703	2,009	1,900	4,222	3,225	37,477
Delivered to Mexico in Satisfaction of Treaty	2,183	1,192	1,139	639	3,680	753	1,353	4,200	963	1,050	2,477	2,968	22,596
Diverted by Others	553	1,004	1,032	312	1,088	638	303	1,121	533	314	656	139	7,692
Delivered to Storage <sup>2</sup>	413	203	415	514	901	266	206	751	450	192	649	76	5,037
Passing to Mexico in Excess of Treaty	128	79	67	35	261	33	28	632	64	343	439	43	2,152
<b>Arizona Totals</b>													
<b>Ordered but not Diverted</b>	<b>14,651</b>	<b>13,049</b>	<b>16,509</b>	<b>16,184</b>	<b>17,471</b>	<b>24,851</b>	<b>16,187</b>	<b>22,695</b>	<b>13,535</b>	<b>11,166</b>	<b>11,400</b>	<b>11,939</b>	<b>189,637</b>
<b>Delivered to Mexico in Satisfaction of Treaty</b>	<b>9,686</b>	<b>6,672</b>	<b>7,092</b>	<b>8,399</b>	<b>10,633</b>	<b>11,921</b>	<b>10,704</b>	<b>13,623</b>	<b>7,511</b>	<b>6,489</b>	<b>7,489</b>	<b>8,623</b>	<b>108,844</b>
<b>Diverted by Others</b>	<b>2,539</b>	<b>3,831</b>	<b>4,985</b>	<b>4,321</b>	<b>3,714</b>	<b>8,169</b>	<b>3,888</b>	<b>3,575</b>	<b>3,089</b>	<b>1,586</b>	<b>1,542</b>	<b>2,361</b>	<b>43,601</b>
<b>Delivered to Storage<sup>1,2</sup></b>	<b>1,952</b>	<b>2,018</b>	<b>4,023</b>	<b>2,418</b>	<b>2,465</b>	<b>4,259</b>	<b>1,155</b>	<b>1,733</b>	<b>2,302</b>	<b>1,056</b>	<b>1,332</b>	<b>664</b>	<b>25,376</b>
<b>Passing to Mexico in Excess of Treaty</b>	<b>473</b>	<b>528</b>	<b>408</b>	<b>1,047</b>	<b>659</b>	<b>502</b>	<b>440</b>	<b>3,764</b>	<b>633</b>	<b>2,035</b>	<b>1,036</b>	<b>291</b>	<b>11,816</b>

<sup>1</sup> Water not diverted by the Central Arizona Project remains in Lake Havasu.

<sup>2</sup> Delivered to temporary storage in Senator Wash Reservoir.

**Table 8. State of California - Disposition of Water Ordered but not Diverted, Calendar Year 2014. (Values are in acre-feet.)**

WATER USER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
<b>Metropolitan Water District - Diversion at Lake Havasu</b>													
Ordered but not Diverted	0	1,197	0	657	0	13,644	2,372	0	133	211	0	0	18,214
Delivered to Mexico in Satisfaction of Treaty													
Diverted by Others													
Delivered to Storage <sup>1</sup>	0	1,197	0	657	0	13,644	2,372	0	133	211	0	0	18,214
Passing to Mexico in Excess of Treaty													
<b>Palo Verde Irrigation District - Diversion at Palo Verde Dam</b>													
Ordered but not Diverted	97	292	690	833	1,031	337	1,051	1,706	1,033	1,014	533	319	8,937
Delivered to Mexico in Satisfaction of Treaty	81	128	349	559	752	136	791	1,257	475	477	339	162	5,506
Diverted by Others	14	158	255	110	153	150	172	44	380	139	118	143	1,836
Delivered to Storage <sup>2</sup>	0	4	71	164	69	42	68	128	108	199	58	9	919
Passing to Mexico in Excess of Treaty	2	2	15	1	57	9	21	276	71	198	19	5	676
<b>Yuma Project Reservation Division - Diversion at Imperial Dam</b>													
Ordered but not Diverted	4,040	2,031	848	1,508	1,540	515	2,007	1,032	2,162	2,023	2,972	5,031	25,709
Delivered to Mexico in Satisfaction of Treaty	2,692	1,137	294	1,184	948	383	1,548	671	1,343	1,047	1,919	3,269	16,435
Diverted by Others	710	706	270	190	253	87	275	208	460	301	486	1,300	5,248
Delivered to Storage <sup>2</sup>	509	90	277	84	329	20	139	75	248	263	291	323	2,647
Passing to Mexico in Excess of Treaty	129	98	6	50	10	26	44	77	111	412	276	139	1,378
<b>Imperial Irrigation District - Diversion at Imperial Dam</b>													
Ordered but not Diverted	29,817	17,615	27,098	26,002	21,150	18,135	23,972	32,270	27,831	37,612	34,520	37,731	333,754
Delivered to Mexico in Satisfaction of Treaty	22,792	12,112	17,967	17,856	15,656	13,239	17,474	21,651	20,938	20,318	23,527	26,488	230,017
Diverted by Others	4,695	3,858	5,182	4,625	2,412	2,854	3,858	2,592	4,056	6,998	5,662	8,060	54,853
Delivered to Storage <sup>2</sup>	1,627	1,004	3,032	1,580	2,619	1,659	2,087	2,070	2,235	3,988	2,644	2,323	26,868
Passing to Mexico in Excess of Treaty	703	641	917	1,941	463	383	553	5,956	602	6,308	2,686	861	22,015
<b>Coachella Valley Water District - Diversion at Imperial Dam</b>													
Ordered but not Diverted	3,757	2,034	2,546	3,112	5,078	3,701	4,162	3,591	5,092	4,647	1,572	3,830	43,123
Delivered to Mexico in Satisfaction of Treaty	2,597	1,639	1,794	2,217	3,028	1,656	3,114	2,058	3,302	2,586	1,180	2,372	27,543
Diverted by Others	682	283	401	645	1,120	1,692	760	424	1,016	625	220	1,078	8,946
Delivered to Storage <sup>2</sup>	355	84	239	221	789	328	186	236	473	611	80	291	3,893
Passing to Mexico in Excess of Treaty	124	28	112	28	141	25	102	873	301	826	93	88	2,741
<b>California Totals</b>													
Ordered but not Diverted	37,712	23,168	31,181	32,111	28,800	36,333	33,564	38,599	36,251	45,507	39,598	46,912	429,736
Delivered to Mexico in Satisfaction of Treaty	28,162	15,016	20,403	21,815	20,384	15,414	22,927	25,638	26,059	24,428	26,964	32,291	279,501
Diverted by Others	6,101	5,005	6,108	5,570	3,938	4,783	5,065	3,269	5,912	8,064	6,486	10,582	70,884
Delivered to Storage <sup>1,2</sup>	2,491	2,379	3,618	2,706	3,807	15,692	4,852	2,509	3,196	5,272	3,074	2,946	52,542
Passing to Mexico in Excess of Treaty	958	768	1,051	2,020	671	443	720	7,183	1,084	7,744	3,074	1,093	26,810

<sup>1</sup> Water not diverted by the Metropolitan Water District remains in Lake Havasu.

<sup>2</sup> Delivered to temporary storage in Senator Wash Reservoir.

## **ARTICLE V(D): RECORDS OF DELIVERIES TO MEXICO IN SATISFACTION OF OR IN EXCESS OF 1944 TREATY REQUIREMENTS**

In accordance with Article V(D) of the Consolidated Decree, Table 9 documents the records of deliveries to Mexico of water in satisfaction of the obligations of Part III of the Treaty of February 3, 1944 and water passing to Mexico in excess of treaty requirements. The tabulations, based upon records furnished by the U.S. Section of the IBWC, show the quantities of water delivered to Mexico at the Northerly International Boundary, the Southerly International Boundary, the Limitrophe, and emergency deliveries to Tijuana (as applicable), pursuant to Articles 10 and 15 of the 1944 Treaty and related Minutes of the IBWC; and the quantities of water passing to Mexico in excess of treaty requirements. Minutes incorporated into the tabulations include:

- 1) Minute No. 242 – Permanent and Definitive Solution to the International Problem of the Salinity of the Colorado River, signed August 30, 1973.
- 2) Minute No. 318 – Adjustment of Delivery Schedules for Water Allotted to Mexico for the Years 2010 Through 2013 as a Result of Infrastructure Damage in Irrigation District 014, Rio Colorado, Caused by the April 2010 Earthquake in the Mexicali Valley, Baja California, signed December 17, 2010.
- 3) Minute No. 319 – Interim International Cooperative Measures in the Colorado River Basin Through 2017 and Extension of Minute 318 Cooperative Measures to Address the Continued Effects of the April 2010 Earthquake in the Mexicali Valley, Baja California, signed November 20, 2012.

**Table 9. Deliveries to Mexico in Satisfaction of Part III of the 1944 Treaty, and Water Passing to Mexico in Excess of Treaty Requirements, Calendar Year 2014. (Values are in acre-feet.)**

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
<b>Colorado River at the Northerly International Boundary<sup>1</sup></b>	120,128	148,664	247,085	229,237	104,787	100,284	105,866	92,614	80,951	54,712	76,272	85,623	1,446,223
<b>Deliveries to Mexico in Satisfaction of Treaty Requirements</b>													
Delivery at the Limitrophe <sup>2</sup>	845	762	763	475	417	243	369	394	330	396	406	336	5,736
Delivery at Southerly International Boundary	9,667	12,244	11,805	10,938	10,048	11,085	11,599	7,380	8,370	10,411	12,138	12,289	127,974
Diversion Channel Discharge <sup>3</sup>	0	35	47	42	0	426	660	65	2	0	0	3	1,280
Delivery to Mexico at the Northerly International Boundary <sup>4</sup>	119,773	147,783	192,583	181,870	94,848	99,618	104,628	84,445	80,605	44,564	73,611	84,676	1,309,004
<b>Total Deliveries to Mexico in Satisfaction of Treaty Requirements</b>	<b>130,285</b>	<b>160,824</b>	<b>205,198</b>	<b>193,325</b>	<b>105,313</b>	<b>111,372</b>	<b>117,256</b>	<b>92,284</b>	<b>89,307</b>	<b>55,371</b>	<b>86,155</b>	<b>97,301</b>	<b>1,443,991</b>
Mexico's Deferred Delivery <sup>5</sup>	0	0	0	11,526	7,600	0	2,171	7,600	0	0	16,811	10,301	56,009
<b>Total to Mexico in Satisfaction of Treaty Requirements</b>	<b>130,285</b>	<b>160,824</b>	<b>205,198</b>	<b>204,851</b>	<b>112,913</b>	<b>111,372</b>	<b>119,427</b>	<b>99,884</b>	<b>89,307</b>	<b>55,371</b>	<b>102,966</b>	<b>107,602</b>	<b>1,500,000</b>
<b>Delivery of Water Deferred Pursuant to Section III.1 of IBWC Minute No. 319<sup>6</sup></b>			51,834	44,128	9,106								105,068
<b>To Mexico in Excess of Treaty<sup>7</sup></b>	355	881	2,668	3,239	833	666	1,238	8,169	346	10,148	2,661	947	32,151
<b>Accountable Deliveries to Mexico<sup>8</sup></b>	<b>130,640</b>	<b>161,705</b>	<b>259,700</b>	<b>240,692</b>	<b>115,252</b>	<b>112,038</b>	<b>118,494</b>	<b>100,453</b>	<b>89,653</b>	<b>65,519</b>	<b>88,816</b>	<b>98,248</b>	<b>1,581,210</b>
<b>Water Bypassed Pursuant to IBWC Minute No. 242</b>	8,452	7,245	15,538	14,864	16,025	14,442	15,076	12,803	7,291	11,838	13,035	7,993	144,602
<b>Water Deferred Pursuant to Section III.1 of IBWC Minute No. 319 (Deferred Delivery)<sup>5</sup></b>													
EOY 2013 Cumulative Deferred Delivery Balance													294,067
Current Year Deferred Delivery													56,009
Delivery of Water Deferred Pursuant to Section III.1 of IBWC Minute No. 319 <sup>6</sup>													(105,068)
Evaporation <sup>9</sup>													(7,350)
EOY 2014 Cumulative Deferred Delivery Balance Available for Future Delivery <sup>10</sup>													237,658

Note: Annual totals may not sum due to rounding and conversion from TCM to AF.

**Footnotes:**

<sup>1</sup> Flow in the river at the NIB as reported by IBWC as delivery to Mexico.

<sup>2</sup> Wasteway deliveries to the river limitrophe via the Cooper, 11 mile, and 21 mile lateral wasteways in satisfaction of the 1944 Treaty requirements.

<sup>3</sup> The Diversion Channel delivers water from the SIB confluence structure to the river or to the Bypass channel. During the months of February through September water is discharged to the Colorado River and is charged to the Treaty.

<sup>4</sup> That portion of the flows at NIB necessary to meet the 1.5 MAF treaty obligation.

<sup>5</sup> Water deferred pursuant to Section III.1 of IBWC Minute No. 319.

<sup>6</sup> Pursuant to Section III.6.e. of IBWC Minute No. 319 and consistent with the *Proposed Delivery Plan for Environmental Flows to the Colorado River Riparian Corridor Pursuant to Minute No. 319*, the volume of water delivered to Mexico at the NIB in the form of a pulse flow to the Colorado River Delta.

<sup>7</sup> Water passing to Mexico in excess of Mexico's daily schedule. Sum of daily differences between actual flows to Mexico and Mexico's total schedule.

<sup>8</sup> Mexico's total water delivery. This value includes deliveries made in satisfaction of Treaty requirements in accordance with Mexico's scheduled diversions (including delivery of water deferred pursuant to Section III.1 of IBWC Minute No. 319) and water passing to Mexico in excess of Mexico's daily schedule. It does not include water bypassed pursuant to IBWC Minute No. 242.

<sup>9</sup> In accordance with IBWC Minute No. 319, a 3 percent reduction for evaporation shall be applied annually on December 31 to water deferred by Mexico pursuant to Section III.1 or any portion thereof has not been delivered, beginning in the year of creation.

<sup>10</sup> The cumulative volume of Mexico's Deferred Delivery includes water deferred during the reporting year and the prior year EOY balance of Deferred Delivery, less deliveries made during the reporting year and the annual evaporation assessment.

**ARTICLE V(E): RECORDS OF DIVERSIONS AND CONSUMPTIVE USE OF WATER FROM THE MAINSTREAM OF THE GILA AND SAN FRANCISCO RIVERS FOR THE BENEFIT OF THE GILA NATIONAL FOREST**

**Table 10. Diversions and Consumptive Use for the Benefit of the Gila National Forest, Calendar Year 2014. (Values are in acre-feet.)**

WATER SOURCE		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
<b>Gila River</b>	Diversion	0	0	0	0	0	0	0	0	0	0	0	0	0
	Consumptive Use	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>San Francisco River</b>	Diversion	0	0	0	0	0	0	0	0	0	0	0	0	0
	Consumptive Use	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Totals</b>	Total Diversion	<b>0</b>												
	Total Consumptive Use	<b>0</b>												

These data are provided annually by the New Mexico Interstate Stream Commission.

## **INFORMATION PROVIDED IN ADDITION TO THE REPORTING REQUIREMENTS OF THE CONSOLIDATED DECREE**

The information contained in the following sections of this report is supplemental to the records required by Article V of the Consolidated Decree of the United States Supreme Court in *Arizona v. California*, 547 U.S. 150 (2006). This information provides a more extensive record of activities relating to federal management of the Colorado River. In concise tabulations specific to various agreements, policies, rules, or Records of Decision, this information is intended to help the reader correlate the records found in the Article V portion of this report with the various conservation, transfer, and exchange agreements. The final section contains a list of documents significant to the actions taken by Reclamation, the Lower Division States, and the water user agencies for the calendar year documented in this report.

## SUMMARY OF WATER AVAILABILITY AND USE BY STATE

The Secretary of the Interior (Secretary) makes Colorado River water available to the Lower Division States in accordance with Article II of the Consolidated Decree.

Under Article II, the Secretary apportions water to the states under shortage, normal, or surplus conditions, and, in accordance with Article II(B)6, may release to a state water which was apportioned to but unused by another state.

The amount of Colorado River water available for use in a state is impacted by various agreements and policies. Examples of these agreements and policies include interstate storage and release agreements, the Colorado River Water Delivery Agreement (CRWDA), the Inadvertent Overrun and Payback Policy (IOPP), and the Colorado River Interim Guidelines for Lower Basin Shortages and the Coordinated Operations for Lake Powell and Lake Mead (2007 Interim Guidelines), specifically, Intentionally Created Surplus (ICS).

Table 11 documents the amount of Colorado River water made available to each Lower Division State under Article II of the Consolidated Decree, water released pursuant to Article II(B)(6) of the Consolidated Decree, paybacks made by users within the state in accordance with IOPP, creation or delivery of ICS, and the total consumptive use within a state.

The table demonstrates whether the consumptive use results in an underrun or overrun of the amount of Colorado River water available to each Lower Division State for the calendar year covered by this report.

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

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

**Footnotes:**

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

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

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

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

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

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

## **INTERSTATE WATER BANKING WITHIN THE STATES OF ARIZONA, CALIFORNIA, AND NEVADA**

On November 1, 1999, the Secretary of the Interior adopted Federal regulations, codified at 43 CFR Part 414, establishing a procedural framework for carrying out an interstate water banking program. The rule provided for authorized parties to enter into agreements whereby Colorado River water may be stored off-stream in one state for future benefit of consuming entities in another state.

The primary mechanism through which these transactions may occur is a Storage and Interstate Release Agreement (SIRA), which permits authorized entities in the Lower Division States to store Colorado River water off-stream, develop intentionally created unused apportionment (ICUA) in a future year, and make the ICUA available to the Secretary for release for use in another Lower Division State. These SIRAs provide structure and guidance, in accordance with Article II(B)(6) of the Consolidated, for the actions the Secretary will take in releasing Colorado River water to a specific entity in order to implement the interstate contractual distribution of water under the interstate water banking program.

Two SIRAs have been implemented under 43 CFR Part 414. The first SIRA was entered into on December 18, 2002, among Reclamation, on behalf of the Secretary, the Arizona Water Banking Authority (AWBA), the Southern Nevada Water Authority (SNWA), and the Colorado River Commission of Nevada (CRCN). This SIRA provides for the storage, by AWBA, of either the State of Arizona's basic or surplus apportionment or the State of Nevada's unused basic or surplus apportionment for the benefit of SNWA.

In 2001, AWBA, SNWA, and CRCN executed an Agreement for Interstate Water Banking, amended January 1, 2005, April 1, 2009, and May 20, 2013, specifying the interstate banking relationship among those parties. This agreement establishes the terms and conditions for the off-stream storage of Colorado River water in Arizona and the establishment of Long-Term Storage Credits (LTSC) for the benefit of SNWA.

Under the AWBA/SNWA/CRCN interstate banking agreement, Colorado River water diverted and banked in Arizona is accounted as consumptively used by Arizona in the year it is diverted and, as a result, LTSC's are created for SNWA. When LTSC's are recovered, SNWA will divert Colorado River water in exchange for the Central Arizona Water Conservation District's (CAWCD) use of the LTSC's pursuant to the SIRA. The Secretary will release ICUA created by AWBA, via CAWCD's forbearance to SNWA, in that same year pursuant to Article II(B)(6) of the Consolidated Decree. ICUA used by SNWA is in addition to Nevada's basic apportionment and is accounted as consumptive use of Colorado River water in Nevada for that year.

The second SIRA was entered into on October 27, 2004, among Reclamation, on behalf of the Secretary, the Metropolitan Water District of Southern California (MWD), SNWA, and CRCN. This SIRA provides for the storage, by MWD, of the State of Nevada's unused basic or surplus apportionment for the benefit of SNWA.

In 2004, MWD, SNWA, and CRCN, executed an Operational Agreement, amended August 2009 and again October 2012, specifying the interstate banking relationship among those parties, and providing the terms and conditions under which MWD will store Nevada unused basic apportionment for the benefit of SNWA. When SNWA requests delivery of this water, MWD will develop ICUA by reducing its diversion of Colorado River water. The ICUA developed by MWD through its reduced diversion of Colorado River water will be released by the Secretary for use by SNWA.

Table 12 documents the Accumulated Long Term Storage Credits (ALTSC) verified by AWBA and MWD, provisional LTSC accrued during the past year, LTSC's recovered during the past year, and ALTSC held for an entity with a SIRA.

**Table 12. Colorado River Water Stored in one State Under 43 CFR Part 414 for the Benefit of Specific Entities in Another State (Interstate Water Banking), Calendar Year 2014.**  
**(Values are in acre-feet.)**

		BOY Balance	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
<b>NEVADA</b>	Verified 2013 EOY ALTSC <sup>1</sup>	601,041													
Water diverted and stored in AZ by AWBA for the benefit of SNWA.	Accrued LTSC in 2014 <sup>2</sup>		0	0	0	0	0	0	0	0	0	0	0	0	0
	Verified LTSC in 2014		0	0	0	0	0	0	0	0	0	0	0	0	0
	ICUA Developed in 2014 <sup>3</sup>		0	0	0	0	0	0	0	0	0	0	0	0	0
	Total ALTSC <sup>4</sup>		601,041	601,041	601,041	601,041	601,041	601,041	601,041	601,041	601,041	601,041	601,041	601,041	601,041
Water diverted and stored in CA by MWD for the benefit of SNWA.	Verified 2013 EOY ALTSC <sup>1,5</sup>	161,892													
	Diverted in 2014 <sup>5</sup>		0	0	0	0	0	0	0	0	0	0	0	65,000	65,000
	Verified LTSC in 2014 <sup>5</sup>		0	0	0	0	0	0	0	0	0	0	0	43,333	43,333
	ICUA Developed in 2014 <sup>3,5</sup>		0	0	0	0	0	0	0	0	0	0	0	0	0
	Total ALTSC <sup>5</sup>		161,892	161,892	161,892	161,892	161,892	161,892	161,892	161,892	161,892	161,892	161,892	205,225	205,225
<b>TOTAL</b>	The amount of water stored for the benefit of SNWA during the calendar year		0	0	0	0	0	0	0	0	0	0	0	43,333	43,333
	Cumulative Balance of Water Stored for SNWA within AZ and CA <sup>6</sup>		762,933	762,933	762,933	762,933	762,933	762,933	762,933	762,933	762,933	762,933	762,933	806,266	806,266

**Footnotes:**

<sup>1</sup> ALTSCs are LTSCs verified by the banking entity before the beginning of the reporting year and available for recovery by a specific entity with a valid SIRA. The amount of ICUA developed cannot exceed verified LTSCs. In a letter from AWBA to SNWA dated July 17, 2014, AWBA informed SNWA of a correction to the volume of LTSCs in SNWA's interstate subaccount. This correction resulted in a 390 AF increase in the amount of LTSCs in SNWA's subaccount, bringing the verified 2013 EOY ALTSC balance to 601,041 AF.

<sup>2</sup> Provisional LTSCs accrued during the reporting year for the benefit of a specific consuming entity in Nevada with a valid SIRA. Provisional LTSCs represent the amount of water diverted from the river and transported to the storage facility. Provisional LTSCs that have not been verified by AWBA or MWD are not eligible for certification and recovery. Accruals of LTSCs in Arizona for the benefit of consuming entities in Nevada and California are limited to 200,000 AF annually.

<sup>3</sup> ICUA developed by AWBA or MWD during the reporting year. AWBA or MWD have certified this amount to be available and the Secretary has released it to a specific entity with a valid SIRA. The ALTSCs are certified by AWBA or MWD when ICUA is requested, and prior to its release by the Secretary. Total recovery of ALTSCs from AWBA cannot exceed 100,000 AF annually, due to a limitation defined under Arizona state law. When water is released from storage, Arizona or MWD will be required to reduce its consumptive use through the development of ICUA in an amount equal to Nevada's requested release. Nevada will be allowed to utilize the unused apportionment in an amount equal to the ICUA made available.

<sup>4</sup> ALTSCs are the cumulative monthly sum of verified or estimated LTSCs.

<sup>5</sup> In 2004, MWD, SNWA, and the Secretary entered into a SIRA to allow MWD to divert and store water for the benefit of SNWA. When storage occurs, it must be Nevada unused apportionment, which will require Nevada to reduce its consumptive use by an amount equal to the total storage. When water is released from storage, MWD will be required to reduce its consumptive use through the development of ICUA in an amount equal to Nevada's requested release and Nevada will be allowed to utilize the unused apportionment in an amount equal to the ICUA made available by MWD. In October 2012, CRCN, MWD, and SNWA executed the Second Amended Operational Agreement which addresses storage during the years 2012 through 2016. Water stored by MWD for the benefit of SNWA during this period is charged with a one-time storage loss equal to one-third of the total amount of water delivered to MWD for storage.

<sup>6</sup> This cumulative balance includes both the BOY ALTSC balance as verified by AWBA and MWD and the verified LTSCs placed into storage during the reporting year.

## **INADVERTENT OVERRUNS AND PAYBACKS WITHIN THE STATES OF ARIZONA, CALIFORNIA, AND NEVADA**

On October 10, 2003, the Secretary of the Interior executed the Colorado River Water Delivery Agreement authorizing the Inadvertent Overrun and Payback Policy (IOPP). The policy is set forth in the *Record of Decision, Colorado River Water Delivery Agreement, Implementation Agreement, Inadvertent Overrun and Payback Policy, and Related Federal Actions, Final Environmental Impact Statement*, published in the *Federal Register* at 69 Fed. Reg. 12202 (March 15, 2004). Effective January 1, 2004, the IOPP, which applies only to Colorado River water users in the Lower Division States, defines inadvertent overruns, establishes procedures to account for inadvertent overruns, and sets forth the requirements for payback of inadvertent overruns to the Colorado River system.

For various reasons, a user may inadvertently divert, pump or receive Colorado River water in an amount that exceeds that to which the user is entitled for that year pursuant to the user's water delivery contract, decreed water right, or Secretarial reservation (inadvertent overrun).

In accordance with the IOPP, paybacks are required to commence in the calendar year that immediately follows the release date of the final Water Accounting Report that reports the overrun. Section 2.6 of the IOPP sets forth the number of years within which an overrun must be paid back and the minimum payback required for each year. Overruns are not allowed in a year for which the Secretary has declared a Shortage condition.

The tabulations in Tables 13 through 15 document information associated with inadvertent overruns and paybacks, as applicable, for each individual water user, including:

- 1) The beginning-of-year overrun account balance.
- 2) The amount of overrun incurred in the reporting year.
- 3) The amount of validated paybacks made to the Colorado River system in the reporting year.
- 4) The end-of-year overrun balance.

**Table 13. State of Arizona - Overruns, Paybacks, and Overrun Account Balances, Calendar Year 2014. (Values are in acre-feet.)**

WATER USER	DETAILS	ANNUAL TOTALS		APPROVAL <sup>1</sup>	ENTITLEMENT
		DIVERSION	CONSUMPTIVE USE		
<b>Cocopah Indian Reservation</b> (Based on a diversion entitlement)	Calendar Year Diversion <sup>2,3</sup>	2,890		10,055	11,518
	Calendar Year Overrun	0			
	BOY Overrun Account Balance	377	247		
	Verified Calendar Year Paybacks	228	150		
	EOY Overrun Account Balance	149	97		
	Account Balance as Percent of Entitlement	1%			
<b>Beattie Farms Southwest (Russell Youmans)</b> (Based on a diversion entitlement)	Calendar Year Diversion <sup>2</sup>	1,000		931	1,110
	Calendar Year Overrun <sup>4</sup>	0			
	BOY Overrun Account Balance	216	140		
	Verified Calendar Year Paybacks	110	72		
	EOY Overrun Account Balance	106	68		
	Account Balance as Percent of Entitlement	10%			

**Footnotes:**

<sup>1</sup> Pursuant to 43 CFR Part 417 (Part 417), the water user's approved diversion or consumptive use amount for the reporting year. For water users not subject to Part 417, this amount is equivalent to the water user's entitlement, less any payback obligations for the reporting year.

<sup>2</sup> The water user's actual diversion or consumptive use as tabulated in the Arizona Article V(B) section (Tables 4a and 4b) of this report.

<sup>3</sup> For accounting purposes the Cocopah Indian Reservation entitlement amount is calculated by combining the Cocopah Tribe's (Tribe) entitlement for use on Trust lands (10,847 AF) and the Tribe's estimated entitlement for use on Fee lands in PPR No. 7 (671 AF). The Tribe's entitlement for use on Fee lands is an estimated amount based on an acreage-prorated share of the total entitlement under PPR No.7. The amount of this entitlement is currently under review.

<sup>4</sup> Pursuant to the terms of the IOPP, Beattie Farms Southwest (Farm) was required to pay back a minimum of 179 AF in 2014. In 2014, the Farm implemented extraordinary conservation measures in accordance with its approved payback plan, but only conserved 110 AF. Pursuant to Section 2.9 of the IOPP, the Farm is required to pay back the 69 AF of under-conservation in 2015.

**Table 14. State of California - Overruns, Paybacks, and Overrun Account Balances, Calendar Year 2014. (Values are in acre-feet.)**

WATER USER	DETAILS	ANNUAL TOTALS			
		DIVERSION	CONSUMPTIVE USE	APPROVAL <sup>1</sup>	ENTITLEMENT
<b>Imperial Irrigation District</b> (Based on consumptive use entitlement)	Calendar Year Consumptive Use <sup>2</sup>		2,533,414	2,534,211	3,100,000
	Calendar Year Overrun		0		
	BOY Overrun Account Balance		117,391		
	Verified Calendar Year Paybacks		117,391		
	EOY Overrun Account Balance		<u>0</u>		
	Account Balance as Percent of Entitlement			0.0%	

**Footnotes:**

<sup>1</sup> Pursuant to 43 CFR Part 417 (Part 417), the water user's approved diversion or consumptive use amount for the reporting year. For water users not subject to Part 417, this amount is equivalent to the water user's entitlement, less any payback obligations for the reporting year.

<sup>2</sup> The water user's actual diversion or consumptive use as tabulated in the California Article V(B) section (Tables 5a and 5b) of this report.

**Table 15. State of Nevada - Overruns, Paybacks, and Overrun Account Balances, Calendar Year 2014. (Values are in acre-feet.)**

WATER USER	DETAILS	ANNUAL TOTALS		APPROVAL	ENTITLEMENT
		DIVERSION	CONSUMPTIVE USE		
No overruns or paybacks occurred within the State of Nevada in the reporting year.					

## LOWER COLORADO WATER SUPPLY PROJECT

The Lower Colorado Water Supply Act (Act), Public Law 99-655, Nov. 14, 1986, authorized the Secretary of the Interior (Secretary) to construct, operate, and maintain the Lower Colorado Water Supply Project (LCWSP). Pursuant to the Act, the Secretary is authorized to enter into exchange contracts and take such actions as the Secretary deems appropriate to facilitate a water exchange between non-Federal interests for the care, operation, and maintenance of all or any part of the project works, subject to such rules and regulations as the Secretary may prescribe.

Any contracts executed by the Secretary to fulfill the requirements of subsections (a)(2) and (a)(3) of the Act must be with persons, or Federal or non-Federal governmental entities whose lands or interests in lands are located adjacent to the Colorado River in the State of California who do not hold rights to Colorado River water or whose rights are insufficient to meet their present or anticipated future needs, as determined by the Secretary. Such entities shall include domestic, municipal, industrial, and recreational water users along the Colorado River in the State of California. Water for agricultural use is not authorized under the Act.

The Act authorizes construction of wells with a total annual capacity of 10,000 acre-feet. Stage I of the LCWSP has been completed and consists of two wells located south of the All-American Canal (AAC) in Imperial County having a total design capacity of 5,000 acre-feet. The wells, which became operational as of August 1, 2003, pump ground water and discharge it into the AAC for use by the Imperial Irrigation District (IID). IID then forbears the use of an equal amount of Colorado River water.

In September 1992, Reclamation entered into a contract to supply LCWSP water to the City of Needles (Needles) in annual amounts

up to 3,500 acre-feet of the initial 5,000 acre-feet available. The contract with Needles establishes a framework for Needles to enter into sub-contracts for delivery of LCWSP water to non-Federal water users in San Bernardino, Riverside, and Imperial Counties. The Colorado River Board of California (CRBC) recommends whether a non-Federal applicant should be offered a subcontract for a LCWSP water supply and notifies Reclamation. Reclamation reviews the information submitted by CRBC and refers the approved applicants to the City which then offers subcontracts.

In September 1998, the Bureau of Land Management (BLM) was allocated 1,150 acre feet of Stage I capacity for consumptive use on BLM administered lands in California located adjacent to the Colorado River. In December 2004, a Reclamation determination reserved an additional 350 acre-feet of Stage I capacity of the LCWSP for use by Reclamation facilities in California on land adjacent the Colorado River. With the determination, the estimated 5,000 acre-feet per year of Stage I capacity was completely allocated.

The Act, as amended in 2005, authorizes the Secretary to contract for the use of LCWSP water under terms that the Secretary determines will benefit the interest of LCWSP users along the Colorado River. On March 26, 2007, Reclamation entered into a contract with the Needles and the Metropolitan Water District of Southern California (MWD), allowing Stage I of the LCWSP to be pumped at capacity, allowing MWD to receive as much unused water as available without jeopardizing the LCWSP. MWD is depositing certain monies in a Water Quality Maintenance Trust Fund to provide for the long-term viability of the LCWSP or its replacement.

**Table 16. Summary of Uses Offset by Pumpage from the LCWSP, Calendar Year 2014. (Values are in acre-feet.)**

		<b>TOTALS</b>
<b>LCWSP Wellfield Pumpage <sup>1</sup></b>		7,195
<b>Federal LCWSP Contractors <sup>2</sup></b>		
BLM	Consumptive Use	273
Reclamation - Parker Dam and Government Camp	Consumptive Use	65
<b>Total Federal Contractors' Consumptive Use</b>		<b>338</b>
<b>Non-Federal LCWSP Contractors <sup>3</sup></b>		
City of Needles	Consumptive Use	476
<b>Needles' Subcontractors</b>		
Southern California Gas Company	Consumptive Use	67
Pacific Gas & Electric Company	Consumptive Use	0
Havasu Water Company of California	Consumptive Use	21
Vista del Lago Resort	Consumptive Use	6
Needles' Other Subcontractors	Consumptive Use	178
<b>Needles' and Subcontractors' Consumptive Use</b>		<b>748</b>
<b>LCWSP Water Available to MWD <sup>4</sup></b>		<b>6,109</b>
<b>Total Non-Federal Contractors' Consumptive Use</b>		<b>6,857</b>

**Footnotes:**

<sup>1</sup> Non-Colorado River water pumped from the LCWSP wellfield and delivered to IID for its use via the AAC. IID forbears the consumptive use of this amount from the Colorado River to make water available for exchange to the LCWSP beneficiaries.

<sup>2</sup> Total LCWSP Federal contractors' consumptive use. Colorado River water used was exchanged for LCWSP water.

<sup>3</sup> Total LCWSP Non-Federal consumptive use by the City of Needles and its subcontractors. Colorado River water used was exchanged for LCWSP water.

<sup>4</sup> Total amount of water pumped from the wellfield less consumptive use of LCWSP water by Federal and Non-Federal LCWSP contractors.

## CONSERVATION, TRANSFERS, AND EXCHANGES

Colorado River water apportioned to the Lower Division States has been further apportioned among the states of Arizona, California, and Nevada and is generally committed to specific persons or entities on a permanent basis. Increasing water demands within the Lower Division States must be met through a combination of conservation, transfers, exchanges, or new water sources which augment the limited supply of Colorado River water.

On October 10, 2003, the Secretary of the Interior entered into the Colorado River Water Delivery Agreement (CRWDA) with Imperial Irrigation District, Coachella Valley Water District, the Metropolitan Water District of Southern California, and the San Diego County Water Authority to resolve longstanding disputes regarding the priority, use, and transfer of Colorado River water within California. The CRWDA recognizes a variety of water transfers, exchanges, and conservation programs which alter the delivery of certain Colorado River water for up to 75 years.

The California agencies entered into the Quantification Settlement Agreement, including a series of supplemental agreements, which collectively implement many provisions of the CRWDA through water transfers, water exchanges, and water conservation measures. Data as a result of the implementation of these agreements are documented in this section.

Table 17 entitled “Comparison of Net California Agricultural Use, Calendar Year 2014” demonstrates the impact of conservation and transfers on agricultural water use in California in the reporting year and compares the California agricultural use to the applicable Benchmark or Annual Target.

Tables 18 through 20 entitled “State of (State) Transfers, Exchanges and Water Made Available by Extraordinary Conservation, Calendar Year 2014” tabulate these transactions reported within Arizona, California, and Nevada.

For California, the tabulation provides a comparison between California agricultural use and the Benchmarks and Targets identified in the 2007 Interim Guidelines, and documents, by agreement, conservation outside of the CRWDA or in amounts that differ from those displayed in Exhibit B of the CRWDA. There were no transfers, exchanges or water made available by extraordinary conservation for Nevada for the calendar year covered by this report.

Table 21 entitled “Bureau of Reclamation – Water Made Available by Conservation, Calendar Year 2014” documents water made available through conservation by Reclamation. This includes:

- 1) Groundwater introduced to the system by pumping certain wells in the Yuma area that discharges to the Colorado River via the Yuma Mesa Conduit.
- 2) Water stored in Warren H. Brock Reservoir.
- 3) Water discharged to the Colorado River as a result of the operation of the Yuma Desalting Plant.

Table 22 entitled “Exhibit B to the Colorado River Water Delivery Agreement” is reproduced from the CRWDA for convenient reference.

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

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

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

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

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

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

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

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

**Table 18. State of Arizona - Transfers, Exchanges, and Water Made Available by Extraordinary Conservation, Calendar Year 2014. (Values are in acre-feet.)**

PROGRAM OR PARTICIPATING AGENCIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
CAWCD/YMIDD Pilot Following Program <sup>1</sup>													6,827

**Footnotes:**

<sup>1</sup> In 2013, CAWCD and YMIDD entered into a Pilot Following Program Agreement in which CAWCD will provide funding to YMIDD to follow a portion of its land. In 2014, 6,827 AF of Colorado River water conserved by the CAGR/DMIDD following program was intentionally not diverted by CAWCD and left in Lake Mead to benefit system storage.

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

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

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

**Footnotes:**

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

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

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

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

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

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

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

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

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

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

**Table 20. State of Nevada - Transfers, Exchanges, and Water Made Available by Extraordinary Conservation, Calendar Year 2014. (Values are in acre-feet.)**

PROGRAM OR PARTICIPATING AGENCIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
No transfers were reported to Reclamation for the reporting year.													

**Table 21. Bureau of Reclamation - Water Made Available by Conservation, Calendar Year 2014. (Values are in acre-feet.)**

CONSERVATION PROGRAM	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ARIZONA GROUND WATER PERMIT <sup>1</sup>	0	0	0	0	0	0	0	0	0	0	0	0	0
WARREN H. BROCK RESERVOIR STORAGE <sup>2</sup>	14,605	11,996	16,919	11,713	10,173	10,554	14,339	10,729	15,991	9,848	10,273	13,658	150,798
YUMA DESALTING PLANT DISCHARGE TO THE COLORADO RIVER <sup>3</sup>	19	10	18	17	19	18	19	6	4	18	17	7	172

**Footnotes:**

<sup>1</sup> In 2007, Reclamation was granted a permit to withdraw Arizona groundwater for return flow credits to offset bypass flows to Mexico. The values shown represent the return flow credits earned in accordance with the permit in the year covered by this report.

<sup>2</sup> Colorado River water stored in Warren H. Brock Reservoir. This total does not necessarily represent all new conservation or system efficiency gains by the reservoir. The difference between the value shown here and the amount shown in the California Article V(B) section, IID tabulation, "Delivery From Warren H. Brock Reservoir", consists of changes in reservoir storage and losses from the reservoir.

<sup>3</sup> Water created by operation of the Yuma Desalting Plant and discharged to the Colorado River.

**Table 22. Exhibit B to the Colorado River Water Delivery Agreement.**

EXHIBIT B QUANTIFICATION AND TRANSFERS <sup>1</sup> <i>In Thousands of Acre-feet</i>																							
Column:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Calendar Year	2 <sup>Priority 1, 2 and 3b</sup>	IID Priority 3a											CVWD Priority 3a					Total Priority 1-3 Use Plus PPR Consumptive Use (sum of columns 2+13+20 plus 11+16)	12 <sup>ISG</sup> Benchmarks	12 <sup>Annual</sup> Targets			
		IID Priority 3a Quantified Amount	3 <sup>IID</sup> Reduction: MWD 1988 Agreement Transfer	IID Reduction: SDCWA Transfer	4 <sup>IID</sup> Reduction: AAC Lining SDCWA & SLR	5,6 <sup>IID</sup> Reduction: SDCWA Mitigation Transfer	7 <sup>Intra-Priority 3</sup> Transfer IID/CVWD	6 <sup>IID</sup> Reduction: MWD Transfer with Salton Sea Restoration	8 <sup>IID</sup> Reduction: Conditional ISG Backfill	9 <sup>IID</sup> Reduction: Misc. PPRs	IID Reductions: Total Amount (sum of columns 4 through 11)	10 <sup>IID</sup> Net Consumptive Use Amount (difference between column 3 and column 12)	CVWD Priority 3a Quantified Amount	4 <sup>CVWD</sup> Reduction: CC Lining, SDCWA & SLR	9 <sup>CVWD</sup> Reduction: Misc. PPRs	11 <sup>CVWD</sup> Reductions: Total Amount (sum of columns 15 + 16)	7 <sup>Intra-Priority 3</sup> Transfer IID/CVWD				3 <sup>Intra-Priority 3</sup> Transfer MWD/CVWD	CVWD Net Consumptive Use Amount (columns 14 - 17 plus columns 18 + 19)	
2003	420	3,100	110	10	0	5	0	0	0	11.5	136.5	2,963.5	330	0	3	3	0	20	347	3,745.0	3,740	3,740	
2004	420	3,100	110	20	0	10	0	0	0	11.5	151.5	2,948.5	330	0	3	3	0	20	347	3,730.0		3,707	
2005	420	3,100	110	30	0	15	0	0	0	11.5	166.5	2,933.5	330	0	3	3	0	20	347	3,715.0		3,674	
2006	420	3,100	110	40	0	20	0	0	9	11.5	190.5	2,909.5	330	26	3	29	0	20	321	3,665.0	3,640	3,640	
2007	420	3,100	110	50	0	25	0	0	0	11.5	196.5	2,903.5	330	26	3	29	0	20	321	3,659.0		3,603	
2008	420	3,100	110	50	67.7	25	4	20	0	11.5	288.2	2,811.8	330	26	3	29	4	20	325	3,571.3		3,566	
2009	420	3,100	110	60	67.7	30	8	40	0	11.5	327.2	2,772.8	330	26	3	29	8	20	329	3,536.3	3,530	3,530	
2010	420	3,100	110	70	67.7	35	12	60	0	11.5	366.2	2,733.8	330	26	3	29	12	20	333	3,501.3		3,510	
2011	420	3,100	110	80	67.7	40	16	80	0	11.5	405.2	2,694.8	330	26	3	29	16	20	337	3,466.3		3,490	
2012	420	3,100	110	90	67.7	45	21	100	0	11.5	445.2	2,654.8	330	26	3	29	21	20	342	3,431.3	3,470	3,470	
2013	420	3,100	110	100	67.7	70	26	100	0	11.5	485.2	2,614.8	330	26	3	29	26	20	347	3,396.3		3,462	
2014	420	3,100	110	100	67.7	90	31	100	0	11.5	510.2	2,589.8	330	26	3	29	31	20	352	3,376.3		3,455	
2015	420	3,100	110	100	67.7	110	36	100	0	11.5	535.2	2,564.8	330	26	3	29	36	20	357	3,356.3		3,448	
2016	420	3,100	110	100	67.7	130	41	100	0	11.5	560.2	2,539.8	330	26	3	29	41	20	362	3,336.3		3,440	
2017	420	3,100	110	100	67.7	150	45	91	0	11.5	575.2	2,524.8	330	26	3	29	45	20	366	3,325.3			
2018	420	3,100	110	130	67.7	0	63	0	0	11.5	382.2	2,717.8	330	26	3	29	63	20	384	3,536.3			
2019	420	3,100	110	160	67.7	0	68	0	0	11.5	417.2	2,682.8	330	26	3	29	68	20	389	3,506.3			
2020	420	3,100	110	193	67.7	0	73	0	0	11.5	454.7	2,645.3	330	26	3	29	73	20	394	3,473.8			
2021	420	3,100	110	205	67.7	0	78	0	0	11.5	472.2	2,627.8	330	26	3	29	78	20	399	3,461.3			
2022	420	3,100	110	203	67.7	0	83	0	0	11.5	474.7	2,625.3	330	26	3	29	83	20	404	3,463.8			
2023	420	3,100	110	200	67.7	0	88	0	0	11.5	477.2	2,622.8	330	26	3	29	88	20	409	3,466.3			
2024	420	3,100	110	200	67.7	0	93	0	0	11.5	482.2	2,617.8	330	26	3	29	93	20	414	3,466.3			
2025	420	3,100	110	200	67.7	0	98	0	0	11.5	487.2	2,612.8	330	26	3	29	98	20	419	3,466.3			
2026	420	3,100	110	200	67.7	0	103	0	0	11.5	492.2	2,607.8	330	26	3	29	103	20	424	3,466.3			
2027	420	3,100	110	200	67.7	0	103	0	0	11.5	492.2	2,607.8	330	26	3	29	103	20	424	3,466.3			
2028	420	3,100	110	200	67.7	0	103	0	0	11.5	492.2	2,607.8	330	26	3	29	103	20	424	3,466.3			
2029-2037	420	3,100	110	200	67.7	0	103	0	0	11.5	492.2	2,607.8	330	26	3	29	103	20	424	3,466.3			
2038-2047 <sup>13</sup>	420	3,100	110	200	67.7	0	103	0	0	11.5	492.2	2,607.8	330	26	3	29	103	20	424	3,466.3			
2048-2077 <sup>14</sup>	420	3,100	110	200	67.7	0	100	0	0	11.5	489.2	2,610.8	330	26	3	29	100	20	421	3,466.3			

1 Exhibit B is independent of increases and reductions as allowed under the Inadvertent Overrun and Payback Policy.

2 Any higher use covered by MWD, any lesser use will produce water for MWD and help satisfy ISG Benchmarks and Annual Targets.

3 IID/MWD 1988 Conservation Program conserves up to 110,000 AFY and the amount is based upon periodic verification. Of amount conserved, up to 20,000 AFY to CVWD (column 19), which does not count toward ISG Benchmarks and Annual Targets, and remainder to MWD.

4 Ramp-up amounts may vary based upon construction progress, and final amounts will be determined by the Secretary pursuant to the Allocation Agreement.

5 Any amount identified in Exhibit B for mitigation purposes will only be from non-Colorado River sources and these amounts may be provided by exchange for Colorado River water.

6 Water would be transferred to MWD subject to satisfaction of certain conditions and to appropriate federal approvals. For informational purposes only, these transfers may also be subject to state approvals. Schedules are subject to adjustments with mutual consent. After 2006, these quantities will count toward the ISG Benchmarks (column 22) and Annual Targets (column 23) only if and to the extent that water is transferred into the Colorado River Aqueduct for use by MWD and/or SDCWA.

7 MWD can acquire if CVWD declines the water. Any water obtained by MWD will be counted as additional agricultural reduction to help satisfy the ISG Benchmarks and Annual Targets. MWD will provide CVWD 50,000 AFY of the 100,000 AFY starting in year 46.

8 IID has agreed to provide transfer amounts to meet the minimum ISG benchmarks, not to exceed a cumulative total of 145,000 AF. Maximum transfer amounts are 25,000 AF in 2006, 50,000 AF plus the unused amount from 2006 in 2009, and 70,000 AF plus the unused amounts from 2006 and 2009 in 2012. In addition to the maximum transfer amounts IID has also committed that no more than 72,500 AF of reduced inflow to the Salton Sea would result from these additional transfers.

9 Up to the amount shown, as agreed upon reduction to IID or CVWD to cover collectively the sum of individual Miscellaneous PPRs, federal reserved rights and decreed rights. This is a reduction that counts towards ISG Benchmarks and Annual Targets.

10 For purposes of Subparagraph 8(b)(2)(i) and (ii) and 8(c)(1) and (4) the Secretary will take into account: (i) the satisfaction of necessary conditions to certain transfers (columns 7 and 9) not within IID's control; (ii) the amounts of conserved water as determined, where such amounts may vary (columns 4, 6, 9 and 10); and (iii) with respect to column 7, reductions by IID will be considered in determining IID's compliance regardless of whether the conserved water is diverted into the Colorado River Aqueduct.

11 For purposes of Subparagraph 8(c)(1) and (4) the Secretary will take into account: (i) the satisfaction of necessary conditions to certain transfers (columns 15 and 16) not within CVWD's control; and (ii) the amounts of conserved water as determined, where such amounts may vary (column 15).

12 All-consumptive use of priorities 1 through 3 plus 14,500 AF of PPRs must be within 25,000 AF of the amount stated.

13 Assumes SDCWA does not elect termination in year 35.

14 Assumes SDCWA and IID mutually consent to renewal term of 30 years.

**Notes:**  
 Substitute transfers can be made provided the total volume of water to be transferred remains equal or greater than amounts shown consistent with applicable federal approvals.  
 The shaded columns represent amounts of water that may vary.

## INTENTIONALLY CREATED SURPLUS

In 2006, Reclamation entered into letter agreements with the Imperial Irrigation District and the Metropolitan Water District of Southern California to implement a demonstration program for the development of Intentionally Created Surplus (ICS). In this program, ICS refers to a quantity of surplus water the Secretary may make available for release under Article II(B)(2) of the Consolidated Decree. The demonstration program covered calendar years 2006 – 2007 and required that ICS be created through extraordinary conservation measures.

On December 13, 2007, the Secretary of the Interior signed the *Record of Decision, Colorado River Interim Guidelines for Lower Basin Shortages and the Coordinated Operations for Lake Powell and Lake Mead* (2007 Interim Guidelines). Beginning in 2008, the creation of ICS is governed by the 2007 Interim Guidelines. Section 3, pages 38-43 of the 2007 Interim Guidelines contains the policies and guidelines concerning the categories of, creation, delivery, and accounting for Intentionally Created Surplus.

Under the 2007 Interim Guidelines, ICS may be created by an approved water user using a variety of approved measures within the four established ICS categories: Extraordinary Conservation ICS, Tributary Conservation ICS, System Efficiency ICS, and Imported ICS. Also stipulated in the 2007 Interim Guidelines are the limitations as to the maximum quantities of ICS that may be created during each year, delivered in a year, and accumulated in a water user's ICS account.

The following conditions apply to ICS:

- 1) During the year of creation, and with the exception of System Efficiency ICS, there is a one-time deduction of 5 percent from the amount of ICS created which is dedicated to system storage to provide a collective storage benefit for Colorado River users.
- 2) Beginning in the year after its creation, and with the exception of System Efficiency ICS, an annual evaporation loss of 3 percent is applied to the quantity of ICS remaining in an ICS account at the end of each year. This assessment is not applied during a shortage year.
- 3) Under flood control releases ICS is released first.
- 4) If a water user has an overrun payback obligation, the water user must repay the obligation in full before it can request or receive delivery of ICS.

The Secretary is responsible for approving plans for the creation of ICS, allowing for their modification, and developing procedures to account for and verify ICS creation and delivery.

Table 23 documents information associated with ICS, as applicable, for each individual water user, including.

- 1) The beginning of year ICS account balance.
- 2) The amount of ICS created in the reporting year.
- 3) The amount of ICS delivered in the reporting year.
- 4) The end of year ICS account balance, after applying reductions for system assessment, IOPP payback, and evaporation, as appropriate.

**Table 23. Intentionally Created Surplus by State, User, and ICS Type, Calendar Year 2014. (Values are in acre-feet.)**

State	Water User	ICS Type	BOY Balance	Creation <sup>1</sup>	System Assessment <sup>2</sup>	IOPP Payback <sup>3</sup>	Delivery	Evaporation Loss <sup>4</sup>	EOY Balance <sup>5</sup>
<b>Arizona</b>									
	CAWCD	System Efficiency - Warren H. Brock	100,000	0	N/A	0	0	N/A	100,000
	CAWCD	System Efficiency - YDP Pilot Run	3,050	0	N/A	0	0	N/A	3,050
<b>Total Arizona:</b>									<b>103,050</b>
<b>California</b>									
	MWD	Extraordinary Conservation	383,666	0	0	0	319,992	1,910	61,764
	MWD	System Efficiency - Warren H. Brock	66,000	0	N/A	0	1,000	N/A	65,000
	MWD	System Efficiency - YDP Pilot Run	24,397	0	N/A	0	0	N/A	24,397
	IID	Extraordinary Conservation	0	18,867	943	0	0	0	17,924
<b>Total California:</b>									<b>169,085</b>
<b>Nevada</b>									
	SNWA	Extraordinary Conservation converted from Tributary Conservation / Imported <sup>6</sup>	138,021	0	0	0	0	4,141	133,880
	SNWA	Tributary Conservation	N/A	29,300	1,465	0	0	N/A	27,835
	SNWA	Imported - Coyote Spring Valley	N/A	0	0	0	0	N/A	0
	SNWA	System Efficiency - Warren H. Brock	400,000	0	N/A	0	0	N/A	400,000
	SNWA	System Efficiency - YDP Pilot Run	3,050	0	N/A	0	0	N/A	3,050
<b>Total Nevada:</b>									<b>564,765</b>
<b>Total ICS stored in Lake Mead: EOY 2014</b>									<b>836,900</b>

**Footnotes:**

<sup>1</sup> The amount of ICS created by the water user during the reporting year. Unless otherwise noted, all current year values displayed in this column are provisional until verified by Reclamation.

<sup>2</sup> In accordance with Section 3.B.2. of the 2007 Interim Guidelines, there shall be a one-time deduction of 5 percent from the amount of ICS in the year of creation. This system assessment shall result in additional system water in storage in Lake Mead.

<sup>3</sup> In accordance with Section 3.C.7 of the 2007 Interim Guidelines, if a contractor has an overrun payback obligation, the contractor must repay the overrun payback obligation in full before requesting or receiving delivery of ICS. If a contractor requests to use its ICS credits to pay back an overrun, the contractor's ICS account(s) shall be reduced by the amount of the payback prior to calculating the evaporation loss and the remaining ICS credits available to the contractor.

<sup>4</sup> In accordance with Section 3.B.7 of the 2007 Interim Guidelines, a 3 percent evaporation loss shall be applied annually to the EOY balance of Extraordinary Conservation ICS beginning in the year after the ICS is created and continuing until no Extraordinary Conservation ICS remains in Lake Mead.

<sup>5</sup> The EOY balance of ICS including creation, reductions, and delivery taking place in the reporting year.

<sup>6</sup> The provisional amounts of Tributary Conservation ICS and Imported ICS created by SNWA in 2013 have been revised to 31,580 AF and 1,641 AF, respectively. After applying the 5 percent reduction for system assessment, the revised 2013 EOY Tributary Conservation ICS balance is 30,001 AF and the revised 2013 EOY Imported ICS balance is 1,559 AF. In accordance with Section 3.A.2 of the Interim Guidelines, these amounts, totaling 31,560 AF, were converted to Extraordinary Conservation ICS at the beginning of 2014.

## DOCUMENTS AND LETTERS SIGNIFICANT TO THE DELIVERY OF AND ACCOUNTING FOR THE USE OF COLORADO RIVER WATER IN CALENDAR YEAR 2014

The table below includes agreements, letters, regulations and operating plans that impacted Reclamation’s delivery of Colorado River water during calendar year 2014. In prior years through 2011, electronic copies of these documents were included on a CD enclosed with the report. Beginning with the 2012 report, these documents may be retrieved by clicking on the item in the electronic version of the report which are available at Reclamation’s website at: [www.usbr.gov/lc/region/g4000/wtracct.html](http://www.usbr.gov/lc/region/g4000/wtracct.html). Acronyms used below are defined on the page of this report entitled, “Acronyms and Abbreviated Terms.”

<b>RECORD OF DECISIONS</b>	
1.	The Record of Decision for Colorado River Interim Guidelines for Lower Basin Shortages and the Coordinated Operations for Lake Powell and Lake Mead dated December 13, 2007. This document provides the framework used by the Secretary of the Interior for shortage, coordinated operation of Lake Powell and Lake Mead, and to encourage conservation, plan for shortages, implement closer coordination of operations of Lake Powell and Lake Mead, and preserve flexibility to deal with further challenges.
2.	The Record of Decision for the Colorado River Water Delivery Agreement: Implementation Agreement, Inadvertent Overrun and Payback Policy, and Related Federal Actions Final Environmental Impact Statement. The Water Delivery Agreement provides certainty regarding water entitlements that are necessary for continued effective implementation of the Secretary’s responsibilities as Water Master on the lower Colorado River.

<b>REPORTS</b>	
3.	2014 Annual Operating Plan Executive Summary that outlines the criteria under which the Colorado River was operated during Calendar Year 2014 considering current and anticipated hydrologic conditions.

<b>INTERIM DETERMINATIONS</b>	
4.	The Secretary’s Interim Determination for the amount of water conserved and the amount of water made available for allocation as a result of the Coachella Canal Lining Project, dated January 31, 2008.
5.	The Secretary’s Interim Determination for the amount of water conserved and the amount of water made available for allocation as a result of the All-American Canal Lining Project, dated December 4, 2009.

**DOCUMENTS AND LETTERS SIGNIFICANT TO THE DELIVERY OF  
AND ACCOUNTING FOR THE USE OF COLORADO RIVER WATER IN CALENDAR YEAR 2014**

<b>AGREEMENTS</b>	
6.	Second Amended Operational Agreement among MWD, CRCN, and SNWA signed October 24, 2012. On October 21, 2004, MWD, CRCN, and SNWA entered into an Operational Agreement that provides additional terms and conditions, consistent with the SIRA, governing operational and financial matters relating to the Storage of Colorado River water and the creation of ICUA. The Second Amended Operational Agreement amends the October 2004 Operational Agreement and addresses, among other things, the storage of ICUA for 2012-2016.

<b>INTENTIONALLY CREATED SURPLUS</b>	
7.	MWD's Extraordinary Conservation ICS Plan of Creation for calendar year 2014 dated June 27, 2013.
8.	Reclamation's letter to MWD dated September 21, 2013, approving its Extraordinary Conservation ICS Plan of Creation for calendar year 2014.
9.	IID's Extraordinary Conservation ICS Plan of Creation for calendar year 2014 dated August 6, 2013.
10.	Reclamation's letter to IID dated September 21, 2013, approving its Extraordinary Conservation ICS Plan of Creation for calendar 2014.
11.	SNWA's Tributary Conservation ICS and Imported ICS Plans of Creation for calendar year 2014 dated June 28, 2013.
12.	Reclamation's letter to SNWA dated September 21, 2013, approving its 2014 ICS Plans of Creation for Tributary Conservation ICS and Imported ICS.
13.	Calendar Year 2014 Fallowed Land Verification Report PVID/MWD Forbearance and Fallowing Program, dated May 14, 2015.

<b>INTERSTATE WATER BANKING</b>	
14.	AWBA's letter to Reclamation dated December 15, 2010, indicating they would not be storing water for SNWA through 2014.
15.	ABWA's letter to SNWA dated July 17, 2014 increasing SNWA's LTSCs by 390 AF.
16.	AWBA's letter to Reclamation dated August 29, 2014, documenting the final verified accounting of SNWA's Interstate Account for calendar year 2013.

**DOCUMENTS AND LETTERS SIGNIFICANT TO THE DELIVERY OF  
AND ACCOUNTING FOR THE USE OF COLORADO RIVER WATER IN CALENDAR YEAR 2014**

<b>INTERSTATE WATER BANKING</b>	
17.	SNWA's letter to Reclamation dated December 3, 2014, indicating the availability of up to 65,000 acre-feet of Nevada unused apportionment and requesting approval to store this water with MWD in 2014.
18.	SNWA's letter to MWD dated December 3, 2014, indicating the availability of up to 65,000 acre-feet of Nevada unused apportionment and requesting approval to store this water with MWD in 2014.
19.	MWD's letter to Reclamation dated December 16, 2014, indicating its ability and willingness to store up to 65,000 acre-feet of Nevada unused apportionment in 2014.
20.	MWD's letter to SNWA dated December 18, 2014, indicating its ability and willingness to store up to 65,000 acre-feet of Nevada unused apportionment in 2014.
21.	Reclamation's letter to SNWA dated December 31, 2014, confirming the existence of and releasing up to 65,000 acre-feet of Nevada unused apportionment for storage within MWD facilities in 2014.
22.	Reclamation's letter to MWD dated December 31, 2014, confirming the existence of and releasing up to 65,000 acre-feet of Nevada unused apportionment for diversion and storage by MWD in 2014.
23.	MWD's letter to Reclamation et al. dated March 3, 2015, summarizing the amount of Nevada unused apportionment stored in MWD facilities from 2004 through 2014.

<b>INADVERTENT OVERRUN AND PAYBACK POLICY</b>	
24.	Reclamation's letter to Beattie Farms Southwest dated June 22, 2012, notifying it of its calendar year 2011 overrun.
25.	Reclamation's letter to the Cocopah Indian Tribe dated June 20, 2012, notifying it of its calendar year 2011 overrun.
26.	Reclamation's letter to IID dated June 20, 2012, notifying it of its calendar year 2011 overrun.
27.	Reclamation's letter to Beattie Farms Southwest dated June 7, 2013, notifying it of its calendar year 2012 overrun.
28.	Reclamation's letter to IID dated June 7, 2013, notifying it of its calendar year 2012 overrun.

**DOCUMENTS AND LETTERS SIGNIFICANT TO THE DELIVERY OF  
AND ACCOUNTING FOR THE USE OF COLORADO RIVER WATER IN CALENDAR YEAR 2014**

<b>INADVERTENT OVERRUN AND PAYBACK POLICY</b>	
29.	Beattie Farms Southwest IOPP Payback Plan for Calendar Years 2013-2015 dated August 9, 2012.
30.	Reclamation's letter to Beattie Farm Southwest dated December 31, 2012, approving its IOPP Payback Plan for Calendar Years 2013-2015.
31.	Beattie Farms Southwest IOPP Payback Plan for Calendar Year 2014 dated August 15, 2013.
32.	Reclamation's letter to Beattie Farm Southwest dated September 21, 2013, approving its IOPP Payback Plan for Calendar Year 2014.
33.	Reclamation's letter to Beattie Farms Southwest dated December 3, 2014, notifying it that it was at risk of exceeding its calendar year 2014 adjusted entitlement.
34.	Reclamation's letter to Beattie Farms Southwest dated February 12, 2015, notifying it of provisional Calendar Year 2014 exceedance of adjusted entitlement and requesting a revised payback plan for calendar year 2015.
35.	Beattie Farms Southwest IOPP Certification Report for Calendar Year 2014.
36.	Reclamation's letter to Beattie Farms Southwest dated April 30, 2015, verifying its 2014 IOPP 110 acre-feet payback amount.
37.	Beattie Farms Southwest Revised IOPP Payback Plan for Calendar Year 2015 dated March 20, 2015.
38.	Reclamation's letter to Beattie Farm Southwest May 12, 2015, approving its Revised IOPP Payback Plan for Calendar Year 2015.
39.	Cocopah Indian Tribe IOPP Payback Plan for Calendar Years 2013-2015 dated July 12, 2013.
40.	Reclamation's letter to the Cocopah Indian Tribe dated September 21, 2013, approving its IOPP Payback Plan for Calendar Years 2013-2015.
41.	Cocopah Indian Tribe's letter to Reclamation dated February 23, 2015, certifying its payback amount for calendar year 2014.
42.	Reclamation's letter to the Cocopah Indian Tribe date May 12, 2015, verifying its 2014 IOPP payback amount of 228 acre-feet.

**DOCUMENTS AND LETTERS SIGNIFICANT TO THE DELIVERY OF  
AND ACCOUNTING FOR THE USE OF COLORADO RIVER WATER IN CALENDAR YEAR 2014**

<b>INADVERTENT OVERRUN AND PAYBACK POLICY</b>	
43.	IID's IOPP Payback Plan for Calendar Year 2014 dated August 5, 2013.
44.	Reclamation's letter to IID dated September 21, 2013, approving its IOPP Payback Plan for Calendar Year 2014.
45.	Reclamation's letter to IID dated August 3, 2014, notifying it that it was at risk of exceeding its adjusted entitlement in 2014.
46.	IID's IOPP Certification Report for Calendar Year 2014 dated February 26, 2015.
47.	Reclamation's letter to IID dated May 12, 2015, verifying its 2014 IOPP payback amount of 117,391 acre-feet.

<b>DOCUMENTS RELATING TO THE COLORADO RIVER WATER DELIVERY AGREEMENT</b>	
48.	Reclamation's letter to IID dated May 3, 2013, discussing transfer and payback issues due to the direct delivery of Colorado River water to the Salton Sea in 2010.
49.	IID's letter to Reclamation dated June 28, 2013, discussing its set of actions due to the direct delivery of Colorado River water to the Salton Sea in 2010.
50.	Reclamation's letter to IID dated July 2, 2013, discussing the transfer and payback issues due to the direct delivery of Colorado River water to the Salton Sea in 2010.
51.	CVWD's letter to Reclamation dated December 9, 2014, providing the amount of environmental mitigation water used in calendar year 2014 for the Coachella Canal Lining Project and the remaining water available for transfer to the SDCWA.
52.	An Email from CVWD dated March 6, 2015, providing final accounting for environmental mitigation water used in calendar year 2014 for the Coachella Canal Lining Project and the remaining water available for transfer to the SDCWA.
53.	IID/MWD Letter Agreement dated December 17, 2014, confirming the total calendar year 2014 conservation yield under the 1988 IID/MWD Conservation Agreement, as amended.

**DOCUMENTS AND LETTERS SIGNIFICANT TO THE DELIVERY OF  
AND ACCOUNTING FOR THE USE OF COLORADO RIVER WATER IN CALENDAR YEAR 2014**

<b>WATER ACCOUNTING</b>	
54.	A description on how irrigation water is calculated by the USGS for areas where estimates of diversion are required.
55.	Maps showing the locations of the wells and river pumps reported by the USGS, and presented in the supplemental tabulations for Arizona and California.
56.	CAWCD's letter to Reclamation dated December 18, 2014, regarding calendar year 2014 Arizona unused apportionment.
57.	Reclamation's letter to CAWCD dated May 15, 2015, regarding calendar year 2014 Arizona unused apportionment.
58.	Central Arizona Groundwater Replenishment District's letter to Reclamation dated May 6, 2015, quantifying the amount conserved water from its Pilot Following Program with the Yuma Mesa Irrigation and Drainage District for 2014.
59.	IID's letter to MWD dated May 12, 2015, requesting to store 50 percent of its 2014 excess extraordinary conservation water in MWD's system.

<b>UNITED STATES-MEXICO 1944 WATER TREATY RELATED</b>	
60.	Minute No. 242 – Permanent and Definitive Solution to the International Problem of the Salinity of the Colorado River.
61.	Minute No. 318 – Adjustment of Delivery Schedules for Water Allotted to Mexico for the Years 2010 Through 2013 as a Result of Infrastructure Damage in Irrigation District 014, Rio Colorado, Caused by the April 2010 Earthquake in the Mexicali Valley, Baja California.
62.	Minute No. 319 – Interim International Cooperative Measures in the Colorado River Basin Through 2017 and Extension of Minute 318 Cooperative Measures to Address the Continued Effects of the April 2010 Earthquake in the Mexicali Valley, Baja California.
63.	USIBWC's letter to Reclamation dated April 13, 2015, advising Reclamation on the accounting of volumes of Colorado River water deferred in 2011, 2012, 2013, and 2014 in accordance with the provisions of Minute No. 318 and 319.