

# RECLAMATION

## *Managing Water in the West*

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

*Calendar Year 2011*



U.S. Department of the Interior  
Bureau of Reclamation  
Lower Colorado Region

## **Mission Statements**

The mission of the Department of the Interior is to protect and provide access to our Nation's natural and cultural heritage and honor our trust responsibilities to Indian Tribes and our commitments to island communities.

The mission 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.

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Calendar Year 2011

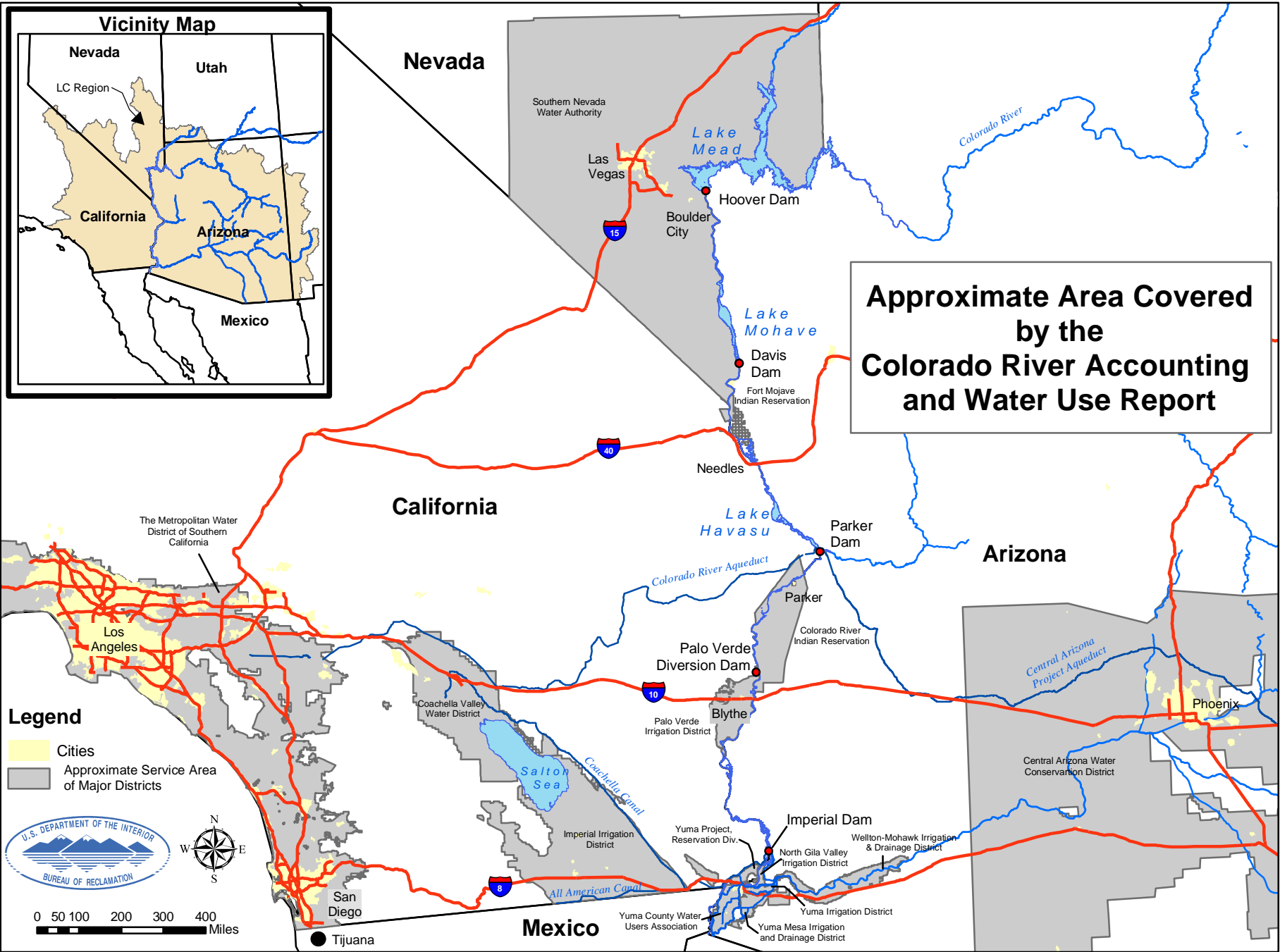
*Prepared by*

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Boulder Canyon Operations Office**



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**May 2012**



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# Acronyms and Abbreviated Terms

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

AAC	All-American Canal	Ftns	Footnotes
AACLCP	All-American Canal Lining Project	FYIR	Fort Yuma Indian Reservation
ADP	Arizona diesel pump	GGMC	Gila Gravity Main Canal
ADW	Arizona diesel well	ICUA	intentionally created unused apportionment
AEP	Arizona electric pump	I.D.D.	irrigation and drainage district
AEW	Arizona electric well	IBWC	International Boundary and Water Commission
af	acre-feet	ICS	Intentionally Created Surplus
AFY	Acre-feet per Year	IID	Imperial Irrigation District
ALTSC	accumulated long term storage credit	IOPP	Inadvertent Overrun and Payback Policy
AOP	Annual Operating Plan	ISG	Colorado River Interim Surplus Guidelines
APS	Arizona Public Service	IUS	Interstate Underground Storage credits
ASLD	Arizona State Land Department	kaf	kilo (thousand) acre-feet
Assn.	Association	LCWSP	Lower Colorado Water Supply LCWSP
AWBA	Arizona Water Banking Authority	LHFO	Lake Havasu Field Office (BLM)
BLM	Bureau of Land Management	LLC	Limited Liability Company
BOY	beginning of year	LTD	Limited
CAWCD	Central Arizona Water Conservation District	LTSC	Long Term Storage Credit
CCLP	Coachella Canal Lining LCWSP	MAF	Mega (million) acre-feet
CDP	California diesel pump	MWD	The 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	PG & E	Pacific Gas and Electric Company
CR	Colorado River	PVID	Palo Verde Irrigation District
CRBC	Colorado River Board of California	QSA	Quantification Settlement Agreement
CRCN	Colorado River Commission of Nevada	Res	Reservation
CRIT	Colorado River Indian Tribes	SCE	Southern California Edison Company
CRWDA	Colorado River Water Delivery Agreement	SIB	Southerly International Boundary
CU	consumptive use	SIRA	Storage and Interstate Release Agreement
CVWD	Coachella Valley Water District	SDCWA	San Diego County Water Authority
CY	calendar year	SLRSP	San Luis Rey Settlement Parties
Diff.	difference	SNWA	Southern Nevada Water Authority
Dist.	district	USGS	United States Geological Survey
Div	diversion	YAO	Yuma Area Office (Reclamation)
DPOC	drainage pump outlet channel	YDP	Yuma Desalting Plant
ECICS	Extraordinary Conservation Intentionally Created Surplus	YFO	Yuma Field Office (BLM)
ET	evapotranspiration	YID	Yuma Irrigation District
EOY	end of year	YMIDD	Yuma Mesa Irrigation and Drainage District
FEIS	Final Environmental Impact Statement		

SUMMARY  
 COLORADO RIVER ACCOUNTING AND WATER USE REPORT  
 CALENDAR YEAR 2011

5/15/12

(Values in acre-feet)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	
<b>LOWER DIVISION STATES CONSUMPTIVE USE SUMMARY</b>														
ARIZONA	129,270	180,781	290,691	315,005	303,211	298,321	236,817	198,525	201,721	239,375	208,992	178,399	2,781,108	
CALIFORNIA	218,239	188,974	409,563	467,821	484,968	478,232	520,926	489,191	404,435	299,026	196,058	155,228	4,312,661	
NEVADA	9,479	8,943	14,910	20,577	26,055	25,759	27,213	28,699	18,540	20,511	13,287	8,874	222,847	
<b>TOTAL LOWER DIVISION STATES CONSUMPTIVE USE</b>	<b>356,988</b>	<b>378,698</b>	<b>715,164</b>	<b>803,403</b>	<b>814,234</b>	<b>802,312</b>	<b>784,956</b>	<b>716,415</b>	<b>624,696</b>	<b>558,912</b>	<b>418,337</b>	<b>342,501</b>	<b>7,316,616</b>	
TO MEXICO IN SATISFACTION OF TREATY REQUIREMENTS <sup>1</sup>	128,113	155,921	195,426	192,064	110,741	119,566	125,942	94,770	89,307	63,478	109,271	115,401	1,500,000	
WATER BYPASSED PURSUANT TO MINUTE 242 OF THE IBWC	5,905	5,790	6,960	11,516	13,637	13,283	10,048	9,774	12,621	13,157	12,710	15,222	130,623	
TO MEXICO IN EXCESS OF TREATY	12,684	17,442	3,471	11,596	4,472	743	1,227	1,776	1,307	6,707	2,685	13,844	77,954	
<b>TOTAL CU. LOWER DIVISION STATES AND DELIVERIES TO MEXICO<sup>2</sup></b>	<b>503,690</b>	<b>557,851</b>	<b>921,021</b>	<b>1,018,579</b>	<b>943,084</b>	<b>935,904</b>	<b>922,173</b>	<b>822,735</b>	<b>727,931</b>	<b>642,254</b>	<b>543,003</b>	<b>486,968</b>	<b>9,025,193</b>	
<b>LCWSP WELLFIELD PUMPING SUMMARY<sup>3</sup></b>														
													NON-FEDERAL	
													FEDERAL	
													TOTAL	
														4,068
														392
														4,460
<b>RESERVOIR CONTENTS SUMMARY</b>	<b>2010 EOY</b>	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	CHANGE
TOTAL STORAGE IN LOWER BASIN <sup>4</sup>	12,533	12,985	13,382	13,457	13,412	13,625	13,959	14,419	14,995	15,173	15,471	16,012	16,767	4,234
TOTAL STORAGE IN LOWER BASIN PLUS LAKE POWELL <sup>5</sup>	27,002	26,807	26,617	26,261	26,338	27,723	31,048	33,024	32,885	32,766	32,720	32,695	32,741	5,739
PERCENTAGE OF ACTIVE STORAGE - LOWER BASIN PLUS POWELL	51.3%	50.9%	50.6%	49.9%	50.0%	52.7%	59.0%	62.8%	62.5%	62.3%	62.2%	62.1%	62.2%	
<b>OFFSTREAM INTERSTATE STORAGE SUMMARY</b>	<b>2010 EOY</b>	<b>2011</b>	<b>2011</b>	<b>2011 EOY</b>										
	<b>Balance</b>	<b>Storage</b>	<b>Recovered</b>	<b>Balance</b>										
WATER STORED IN AZ FOR THE BENEFIT OF NV <sup>6</sup>	600,651	0	0	600,651										
WATER STORED IN CA BY MWD FOR THE BENEFIT OF NV	70,000	0	0	70,000										

**Footnotes:**

<sup>1</sup> Deliveries to Mexico to satisfy Treaty requirements.

<sup>2</sup> Sum of Total Consumptive Use in the Lower Division States, Deliveries to Mexico in Satisfaction of Treaty requirements, Water Bypassed Pursuant to Minute No. 242 of the IBWC and water passing to Mexico in excess of Treaty requirements.

<sup>3</sup> Pumpage of Lower Colorado Water Supply Project wellfield to offset specific Colorado River water use in California.

<sup>4</sup> Sum of end-of-month storage in Lower Basin Lakes Mead, Mohave, and Havasu. Values displayed are in thousands of acre-feet.

<sup>5</sup> Sum of end-of-month storage in Upper Basin Lake Powell and Lower Basin Lakes Mead, Mohave, and Havasu. Values displayed are in thousands of acre-feet.

<sup>6</sup> The LTSC's for 2010 have been adjusted upward as verified by the AWBA in a letter dated August 3, 2011. As a result, the EOY balance for 2010 is increased by 759 acre-feet from 599,892 acre-feet to 600,651 acre-feet.

RESERVOIR CONTENTS  
MONTHLY STORAGE CONTENTS OF THE COLORADO RIVER SYSTEM RESERVOIRS  
CALENDAR YEAR 2011

5/15/12

(Values in thousand acre-feet)

	2010 EOY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	CY CHANGE <sup>1</sup>
END OF MONTH ACTIVE CONTENTS <sup>2</sup>														
LAKE POWELL	14,469	13,822	13,235	12,804	12,926	14,098	17,089	18,605	17,890	17,593	17,249	16,683	15,974	1,505
PERCENTAGE OF POWELL ACTIVE STORAGE <sup>3</sup>	59.5%	56.8%	54.4%	52.6%	53.1%	58.0%	70.3%	76.5%	73.6%	72.3%	70.9%	68.6%	65.7%	
LAKE MEAD	10,301	10,765	11,117	11,170	11,115	11,304	11,705	12,133	12,730	12,977	13,456	13,933	14,644	4,343
LAKE MOHAVE	1,650	1,670	1,699	1,705	1,707	1,727	1,679	1,702	1,682	1,610	1,435	1,511	1,586	-64
LAKE HAVASU	582	550	567	581	590	593	575	584	583	585	579	567	537	-45
TOTAL STORAGE IN LOWER BASIN <sup>4</sup>	12,533	12,985	13,382	13,457	13,412	13,625	13,959	14,419	14,995	15,173	15,471	16,012	16,767	4,234
PERCENTAGE OF CO RIVER ACTIVE STORAGE IN THE LOWER BASIN <sup>5</sup>	44.3%	45.9%	47.3%	47.5%	47.4%	48.1%	49.3%	50.9%	53.0%	53.6%	54.7%	56.6%	59.2%	
TOTAL LOWER BASIN STORAGE PLUS LAKE POWELL <sup>6</sup>	27,002	26,807	26,617	26,261	26,338	27,723	31,048	33,024	32,885	32,766	32,720	32,695	32,741	5,739
PERCENTAGE OF ACTIVE STORAGE, LOWER BASIN PLUS POWELL <sup>7</sup>	51.3%	50.9%	50.6%	49.9%	50.0%	52.7%	59.0%	62.8%	62.5%	62.3%	62.2%	62.1%	62.2%	
TOTAL SYSTEM STORAGE <sup>8</sup>	32,370	32,125	31,866	31,506	31,577	33,045	36,868	39,262	3,899	38,680	38,527	38,466	38,366	5,996
PERCENTAGE OF TOTAL SYSTEM STORAGE <sup>9</sup>	54.5%	54.1%	53.7%	53.1%	53.2%	55.6%	62.1%	66.1%	6.6%	65.1%	64.9%	64.8%	64.6%	

**Footnotes:**

<sup>1</sup> "CY CHANGE" is the difference in the end-of-month storage from midnight December 31 of the preceeding year and midnight December 31 of the reporting year. A positive value indicates an increase in the amount of water in storage. A negative value indicates a decrease in the amount of water in storage.

<sup>2</sup> Actual values may differ slightly from the displayed values due to rounding and being displayed to the nearest thousand acre-feet.

<sup>3</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>4</sup> The sum of end-of-month storage in Lakes Mead, Mohave, and Havasu.

<sup>5</sup> The percentage of available total active storage capacity held in the Lower Basin (Lakes Mead, Mohave and Havasu). Based on the total active storage capacity of 28,549,200 af.

<sup>6</sup> The sum of end-of-month storage in Lake Powell (Upper Basin) and Lakes Mead, Mohave and Havasu (Lower Basin).

<sup>7</sup> The percentage of total available active storage capacity held in Lake Powell (Upper Basin) and Lakes Mead, Mohave, and Havasu (Lower Basin). Based on a total active storage capacity of 52,871,200 af.

<sup>8</sup> Total end-of-month system storage, includes Reclamation reservoirs in the Upper and Lower Basins of the Colorado River system. This includes the Upper Basin Lakes Powell, Navajo, Crystal, Morrow Point, Blue Mesa, Flaming Gorge, Fontenelle, and Lower Basin Lakes Mead, Mohave, and Havasu.

<sup>9</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 59,623,200 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*, “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.”

**RECORDS OF RELEASES OF WATER THROUGH  
REGULATORY STRUCTURES IN ACCORDANCE WITH  
ARTICLE V (A) OF THE CONSOLIDATED DECREE OF THE UNITED STATES  
SUPREME COURT IN ARIZONA V. CALIFORNIA, 547 U.S. 150 (2006)**

The following tabulation, for calendar year 2011, shows the final records for release of water through regulatory structures controlled by the United States. Records of releases from Glen Canyon, Hoover, Davis, Parker, Palo Verde, Imperial, and Laguna Dams are furnished by the USGS and are based upon measurements at or below the structures.

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

STRUCTURE	CALENDAR YEAR 2011												TOTAL
	5/15/12	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	
GLEN CANYON DAM	1,012,000	975,900	1,046,000	962,600	1,191,000	1,391,000	1,502,000	1,501,000	957,000	979,500	1,104,000	1,226,000	13,848,000
HOOVER DAM	539,700	634,400	1,006,000	1,078,000	1,002,000	939,600	1,002,000	831,300	669,800	443,300	564,200	496,700	9,207,000
DAVIS DAM	515,200	587,700	987,200	1,060,000	941,400	954,300	961,800	832,500	734,500	646,700	510,000	426,100	9,157,400
PARKER DAM	387,200	406,700	692,700	773,800	682,500	712,200	770,400	671,700	540,100	470,000	318,300	262,100	6,687,700
HEADGATE ROCK DAM <sup>1</sup>	363,830	380,960	644,610	705,910	613,770	634,630	686,780	584,900	478,990	422,360	293,470	233,880	6,044,090
PALO VERDE DIVERSION DAM	322,400	323,700	566,900	653,900	548,600	532,100	591,700	478,700	386,300	364,500	268,300	238,000	5,275,100
IMPERIAL DAM <sup>2</sup>	38,300	34,610	24,860	78,400	33,810	26,130	22,620	27,280	21,270	20,830	21,040	34,730	383,880
DIVERSION TO MITTRY LAKE FROM GILA MAIN CANAL	359	343	561	601	627	587	604	595	527	569	447	365	6,185
SUM IMPERIAL DAM + DIVERSION TO MITTRY LAKE	38,659	34,953	25,421	79,001	34,437	26,717	23,224	27,875	21,797	21,399	21,487	35,095	390,065
LAGUNA DAM	37,180	37,100	25,460	70,710	36,680	28,850	27,850	28,730	24,680	21,120	21,660	33,000	393,020

**Footnotes:**

<sup>1</sup> Computed as Parker Dam release minus diversion at Headgate Rock Dam.

<sup>2</sup> Represents flow below Imperial Dam alone and does not include diversions through the All-American Canal and the Gila Gravity Main Canal.

## **RECORDS OF DIVERSIONS, RETURN FLOWS AND CONSUMPTIVE USE IN ACCORDANCE WITH ARTICLE V (B) OF THE CONSOLIDATED DECREE OF THE UNITED STATES SUPREME COURT IN ARIZONA V. CALIFORNIA, 547 U.S. 150 (2006)**

The following tabulations for calendar year 2011 show final records of diversions of water from the mainstream of the Colorado River, return flow of such water to the mainstream, and the consumptive use of such water in each state. The records were furnished by the United States Geological Survey (USGS), International Boundary and Water Commission, Bureau of Indian Affairs, Reclamation, National Park Service, U.S. Fish and Wildlife Service, and water user agencies. Diversions from the Topock Marsh Inlet Canal, All-American Canal and Gila Gravity Main Canal at Imperial Dam were assigned to each user by adding each user's proportional share of the total canal losses to the delivery taken by each user at its turnout from the canal.

The tabulations show 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. Diversions are listed in two separate tabulations for each state. The first tabulation lists water users whose diversions are typically measured and reported monthly or more frequently. Measured return flows to the mainstream, an estimate of unmeasured return flows to the mainstream, and consumptive use are listed for points of diversion and return when that information is available.

The second tabulation for Arizona and California, entitled "Supplemental Use Tabulation," shows quantities of water pumped from the mainstream or from wells in the Colorado River aquifer, where the amount of water diverted is reported by the USGS or the water user. For diversions reported by the USGS, the USGS verifies the crops being grown and uses evapotranspiration methodologies to estimate the crop use, then

applies irrigation efficiency coefficients to derive the estimated diversions. Unmeasured returns are computed by multiplying a user's diversion by an unmeasured return flow factor. Reclamation is continuing 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 diversions, return flows or consumptive uses tabulated in this report constitute 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). The listing of a use in this report should not be interpreted as an entitlement or an indication that the use is authorized. If you notice an error or omission, please report it to Boulder Canyon Operations Office at the address listed on the cover page.

Reclamation does not consider pumping of wells from the flood plain or the underlying aquifer downstream from the Northerly International Boundary (NIB) to be a diversion of Colorado River water. This policy 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 has discontinued reporting these wells.

DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 2011  
STATE OF ARIZONA

WATER USER	Ftnts	(Values in acre-feet)												TOTAL <sup>1</sup>	
		5/15/12	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV		DEC
LAKE MEAD NATIONAL RECREATION AREA, AZ. DIVERSIONS FROM LAKE MEAD (TEMPLE BAR)		DIVERSION	8	7	8	11	13	14	17	12	11	8	8	11	128
		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	8	7	8	11	13	14	17	12	11	8	8	11	128
LAKE MEAD NATIONAL RECREATION AREA, AZ. DIVERSIONS FROM LAKE MOHAVE (KATHERINE, WILLOW BEACH)		DIVERSION	11	9	8	12	14	19	23	20	21	16	11	13	177
		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	9	8	12	14	19	23	20	21	16	11	13	177
LOWER COLORADO RIVER DAMS PROJECT DIVERSION AT DAVIS DAM		DIVERSION	28	2	2	2	7	4	28	4	4	3	3	3	90
		MEASURED RETURNS	28	1	2	2	6	3	28	4	4	3	3	3	87
		UNMEASURED RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
		CONSUMPTIVE USE	0	1	0	0	1	1	0	0	0	0	0	0	3
BULLHEAD CITY PUMPED FROM WELLS		DIVERSION	615	583	708	732	819	854	1,047	1,047	973	792	683	664	9,517
MOHAVE CO. PARKS DIVERSION AT DAVIS DAM		DIVERSION	0	0	1	1	2	1	1	2	1	1	1	0	11
		MEASURED RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
		UNMEASURED RETURNS	203	192	234	242	271	282	346	346	321	262	226	219	3,144
		CONSUMPTIVE USE	412	391	475	491	550	573	702	703	653	531	458	445	6,384
MOHAVE WATER CONSERVATION DISTRICT PUMPED FROM WELLS		DIVERSION	55	53	60	71	69	87	92	84	78	76	63	61	849
		MEASURED RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
		UNMEASURED RETURNS	18	17	20	23	23	29	30	28	26	25	21	20	280
		CONSUMPTIVE USE	37	36	40	48	46	58	62	56	52	51	42	41	569
BROOKE WATER LLC PUMPED FROM RIVER		DIVERSION	21	19	18	23	25	25	33	32	33	30	24	21	304
		MEASURED RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
		UNMEASURED RETURNS	7	6	6	8	8	8	11	11	11	10	8	7	101
		CONSUMPTIVE USE	14	13	12	15	17	17	22	21	22	20	16	14	203
MOHAVE VALLEY I.D.D. PUMPED FROM WELLS		DIVERSION	1,128	814	1,706	2,183	2,262	4,297	3,503	3,358	3,363	3,259	2,932	2,937	31,742
		MEASURED RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
		UNMEASURED RETURNS	519	374	785	1,004	1,041	1,977	1,611	1,545	1,547	1,499	1,349	1,351	14,602
		CONSUMPTIVE USE	609	440	921	1,179	1,221	2,320	1,892	1,813	1,816	1,760	1,583	1,586	17,140
FORT MOJAVE INDIAN RESERVATION AGRICULTURE - RIVER PUMPS		DIVERSION	1,799	3,961	5,884	5,243	8,731	10,783	11,716	10,043	3,834	2,683	2,335	1,104	68,116
DOMESTIC - WELLS	2	DIVERSION	135	95	55	78	65	120	235	288	219	165	136	91	1,682
		MEASURED RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
		UNMEASURED RETURNS	890	1,866	2,732	2,448	4,046	5,015	5,497	4,752	1,864	1,310	1,137	550	32,107
		CONSUMPTIVE USE	1,044	2,190	3,207	2,873	4,750	5,888	6,454	5,579	2,189	1,538	1,334	645	37,691
GOLDEN SHORES WATER CONSERVATION DISTRICT PUMPED FROM WELLS	3	DIVERSION	20	25	34	37	45	54	59	57	45	37	27	26	466
		MEASURED RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
		UNMEASURED RETURNS	7	8	11	12	15	18	19	19	15	12	9	9	154
		CONSUMPTIVE USE	13	17	23	25	30	36	40	38	30	25	18	17	312
HAVASU NATIONAL WILDLIFE REFUGE TOPOCK INLET CANAL	4	DIVERSION	20	158	1,816	3,247	347	2,382	1,988	2,814	2,618	489	18	16	15,913
FARM DITCH		DIVERSION	0	41	1,153	1,533	1,146	1,269	1,351	926	491	167	16	0	8,093
WELL	3	DIVERSION	10	11	15	17	20	25	27	26	20	17	12	12	212
		MEASURED RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
		UNMEASURED RETURNS	26	185	2,626	4,221	1,331	3,235	2,962	3,314	2,754	592	40	25	21,311
		CONSUMPTIVE USE	4	25	358	576	182	441	404	452	375	81	6	3	2,907
LAKE HAVASU CITY WELLS		DIVERSION	817	740	922	952	1,138	1,221	1,334	1,504	1,194	1,187	865	804	12,678
		MEASURED RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
		UNMEASURED RETURNS	310	281	350	362	432	464	507	572	454	451	329	306	4,818
		CONSUMPTIVE USE	507	459	572	590	706	757	827	932	740	736	536	498	7,860

DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
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(Values in acre-feet)

WATER USER	Ftnts	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL <sup>1</sup>
CENTRAL ARIZONA PROJECT PUMPED FROM LAKE HAVASU														
	DIVERSION	89,029	134,563	186,159	180,434	166,473	154,609	76,895	60,168	101,762	149,410	174,986	150,555	1,625,043
	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	89,029	134,563	186,159	180,434	166,473	154,609	76,895	60,168	101,762	149,410	174,986	150,555	1,625,043
TOWN OF PARKER PUMPED FROM RIVER WELL	5													
	DIVERSION	0	0	0	0	0	0	0	0	0	0	0	0	0
	DIVERSION	51	49	60	68	79	89	92	93	74	69	53	45	822
	MEASURED RETURNS	23	22	24	25	25	26	26	23	24	25	20	20	283
	UNMEASURED RETURNS	15	14	17	19	23	25	26	27	21	20	15	13	235
	CONSUMPTIVE USE	13	13	19	24	31	38	40	43	29	24	18	12	304
COLORADO RIVER INDIAN RESERVATION DIVERSION AT HEADGATE ROCK DAM 2 RIVER PUMPS AND DOMESTIC	6													
	DIVERSION	23,370	25,740	48,090	67,890	68,730	77,570	83,620	86,800	61,110	47,640	24,830	28,220	643,610
	DIVERSION	369	423	563	612	738	880	949	923	731	625	453	431	7,697
	MEASURED RETURNS	15,168	19,093	21,000	23,816	22,933	20,430	23,890	26,423	26,077	27,853	24,095	21,456	272,234
	UNMEASURED RETURNS	1,306	1,439	2,676	3,768	3,821	4,315	4,651	4,825	3,401	2,655	1,391	1,576	35,824
	CONSUMPTIVE USE	7,265	5,631	24,977	40,918	42,714	53,705	56,028	56,475	32,363	17,757	-203	5,619	343,249
EHRENBURG IMPROVEMENT ASSOCIATION PUMPED FROM RIVER														
	DIVERSION	33	28	32	35	39	42	45	52	33	38	24	27	428
	MEASURED RETURNS	2	2	3	2	3	2	3	3	2	2	2	2	28
	UNMEASURED RETURNS	9	8	9	10	11	12	13	15	9	11	7	8	122
	CONSUMPTIVE USE	22	18	20	23	25	28	29	34	22	25	15	17	278
CIBOLA VALLEY CIBOLA VALLEY I.D.D.														
	DIVERSION	351	911	1,502	977	1,008	1,393	772	1,113	1,021	640	540	381	10,609
MOHAVE COUNTY WATER AUTHORITY														
	DIVERSION	0	0	564	400	415	621	833	821	239	252	103	0	4,248
HOPI TRIBE														
	DIVERSION	0	291	43	115	772	941	1,043	867	809	18	0	0	4,899
ARIZONA RECREATIONAL FACILITIES														
	DIVERSION	79	226	143	142	333	445	389	194	291	186	139	127	2,694
ARIZONA GAME AND FISH COMMISSION														
	DIVERSION	44	215	468	577	395	349	235	496	143	82	433	60	3,497
	MEASURED RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
	UNMEASURED RETURNS	135	468	775	630	833	1,068	933	995	713	336	346	162	7,394
	CONSUMPTIVE USE	339	1,175	1,945	1,581	2,090	2,681	2,339	2,496	1,790	842	869	406	18,553
CIBOLA NATIONAL WILDLIFE REFUGE 3 RIVER PUMPS														
	DIVERSION	737	659	722	1,318	1,354	1,299	1,619	1,621	1,580	785	770	796	13,260
	MEASURED RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
	UNMEASURED RETURNS	280	250	274	501	515	494	615	616	600	298	293	302	5,038
	CONSUMPTIVE USE	457	409	448	817	839	805	1,004	1,005	980	487	477	494	8,222
IMPERIAL NATIONAL WILDLIFE REFUGE 4 RIVER PUMPS														
	DIVERSION	112	101	112	107	111	107	122	122	118	10	9	10	1,041
	MEASURED RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
	UNMEASURED RETURNS	43	38	43	41	42	41	46	46	45	4	3	4	396
	CONSUMPTIVE USE	69	63	69	66	69	66	76	76	73	6	6	6	645
YUMA PROVING GROUND DIVERSION AT IMPERIAL DAM WELLS														
	DIVERSION	0	0	0	0	0	2	2	0	1	0	1	0	6
	DIVERSION	27	20	36	62	62	107	114	55	72	44	38	30	667
	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	27	20	36	62	62	109	116	55	73	44	39	30	673
GILA MONSTER FARMS DIVERSION AT IMPERIAL DAM	7													
	DIVERSION	450	347	978	1,111	1,012	617	497	774	436	738	474	413	7,847
	MEASURED RETURNS	34	26	58	70	59	39	30	40	18	34	46	27	481
	UNMEASURED RETURNS	171	132	372	422	385	234	189	294	166	280	180	157	2,982
	CONSUMPTIVE USE	245	189	548	619	568	344	278	440	252	424	248	229	4,384
WELLTON MOHAWK IDD DIVERSION AT IMPERIAL DAM	8													
	DIVERSION	21,500	23,263	37,782	43,519	40,694	46,952	42,439	40,964	34,107	32,406	16,676	14,354	394,656
	GGMC RETURN	1,806	1,947	2,481	3,079	2,662	3,306	2,887	2,389	1,567	1,660	1,805	1,065	26,654
	DOME RETURN	720	712	422	336	143	139	243	226	408	579	633	490	5,051
	MOD RETURN	9,180	5,880	9,980	8,760	9,180	9,000	9,100	9,290	8,970	9,600	9,510	9,690	108,140
	TOTAL RETURNS	11,706	8,539	12,883	12,175	11,985	12,445	12,230	11,905	10,945	11,839	11,948	11,245	139,845
	UNMEASURED RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
	CONSUMPTIVE USE	9,794	14,724	24,899	31,344	28,709	34,507	30,209	29,059	23,162	20,567	4,728	3,109	254,811

DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
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WATER USER	Ftnts	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL <sup>1</sup>
CITY OF YUMA														
DIVERSION AT IMPERIAL DAM (AAC)	DIVERSION	1,194	995	1,190	1,309	1,591	1,654	1,647	1,729	1,445	1,353	1,080	932	16,119
DIVERSION AT IMPERIAL DAM (GILA)	DIVERSION	958	941	995	651	809	786	842	776	707	810	799	877	9,951
PUMP DIVERSION FOR YUMA EAST WETLANDS	DIVERSION	9	9	34	69	90	99	101	100	69	31	9	6	626
	MEASURED RETURNS	867	788	834	746	797	768	808	807	813	820	871	874	9,793
	UNMEASURED RETURNS	3	3	12	24	32	35	35	35	24	11	3	2	219
	CONSUMPTIVE USE	1,291	1,154	1,373	1,259	1,661	1,736	1,747	1,763	1,384	1,363	1,014	939	16,684
MARINE CORPS AIR STATION YUMA														
DIVERSION AT IMPERIAL DAM	DIVERSION	89	51	67	101	131	121	141	165	136	129	93	76	1,300
	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	89	51	67	101	131	121	141	165	136	129	93	76	1,300
UNION PACIFIC RAILROAD														
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
YUMA MESA FRUIT GROWERS ASSOCIATION														
DIVERSION AT IMPERIAL DAM	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
UNIVERSITY OF ARIZONA														
DIVERSION AT IMPERIAL DAM	DIVERSION	39	43	84	73	100	90	85	56	89	72	81	31	843
	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	39	43	84	73	100	90	85	56	89	72	81	31	843
YUMA UNION HIGH SCHOOL DISTRICT														
DIVERSION AT IMPERIAL DAM	DIVERSION	2	3	3	9	51	7	26	52	1	13	14	19	200
	MEASURED RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
	UNMEASURED RETURNS	1	1	1	2	13	2	7	13	0	3	4	5	52
	CONSUMPTIVE USE	1	2	2	7	38	5	19	39	1	10	10	14	148
YUMA MESA GRAPEFRUIT COMPANY														
DIVERSION AT IMPERIAL DAM	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
DESERT LAWN MEMORIAL PARK														
DIVERSION AT IMPERIAL DAM	DIVERSION	0	10	0	24	0	31	0	41	0	32	0	12	150
	MEASURED RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
	UNMEASURED RETURNS	0	3	0	7	0	9	0	12	0	10	0	4	45
	CONSUMPTIVE USE	0	7	0	17	0	22	0	29	0	22	0	8	105
NORTH GILA VALLEY I.D.D														
DIVERSION AT IMPERIAL DAM	DIVERSION	2,717	2,927	4,260	4,241	5,120	4,619	5,245	3,093	3,462	4,794	3,365	2,478	46,321
	MEASURED RETURNS	2,044	1,974	2,528	2,395	2,818	2,572	2,918	2,075	2,439	3,045	2,672	1,775	29,255
	UNMEASURED RETURNS	372	401	584	581	701	633	719	424	474	657	461	339	6,346
	CONSUMPTIVE USE	301	552	1,148	1,265	1,601	1,414	1,608	594	549	1,092	232	364	10,720
YUMA IRRIGATION DISTRICT														
DIVERSION AT IMPERIAL DAM	DIVERSION	4,006	4,805	8,441	9,469	8,712	6,047	7,102	6,832	5,347	6,005	4,495	2,529	73,790
PUMPED FROM PRIVATE WELLS	DIVERSION	88	97	97	40	85	87	137	32	59	59	69	92	942
	MEASURED RETURNS	1,184	1,417	2,170	2,463	2,260	1,639	1,908	1,919	1,312	1,535	1,444	764	20,015
	UNMEASURED RETURNS	872	1,044	1,819	2,025	1,874	1,307	1,542	1,462	1,151	1,292	972	558	15,918
	CONSUMPTIVE USE	2,038	2,441	4,549	5,021	4,663	3,188	3,789	3,483	2,943	3,237	2,148	1,299	38,799
YUMA MESA I. D. D.														
DIVERSION AT IMPERIAL DAM	DIVERSION	7,915	8,646	14,481	16,816	20,292	23,300	23,443	25,133	18,039	13,466	7,362	7,774	186,667
	MEASURED RETURNS	3,773	4,638	6,556	5,512	5,284	8,045	9,158	8,257	4,198	2,073	1,069	1,331	59,894
	UNMEASURED RETURNS	1,266	1,383	2,317	2,691	3,247	3,728	3,751	4,021	2,886	2,155	1,178	1,244	29,867
	CONSUMPTIVE USE	2,876	2,625	5,608	8,613	11,761	11,527	10,534	12,855	10,955	9,238	5,115	5,199	96,906

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<b>UNIT "B" IRRIGATION DISTRICT</b>														
DIVERSION AT IMPERIAL DAM		1,187	1,172	1,997	2,470	3,220	3,372	3,126	3,636	2,657	2,680	1,915	1,215	28,647
	DIVERSION	1,187	1,172	1,997	2,470	3,220	3,372	3,126	3,636	2,657	2,680	1,915	1,215	28,647
	MEASURED RETURNS	642	779	1,108	926	901	1,350	1,524	1,394	708	387	277	219	10,215
	UNMEASURED RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
	CONSUMPTIVE USE	545	393	889	1,544	2,319	2,022	1,602	2,242	1,949	2,293	1,638	996	18,432
<b>FORT YUMA INDIAN RESERVATION</b>														
DIVERSIONS FOR YUMA EAST WETLANDS		24	23	55	99	135	149	152	140	90	53	22	17	959
	DIVERSION	24	23	55	99	135	149	152	140	90	53	22	17	959
RANCH "5" LANDS, YUMA ISLAND, AZ (180 ac)		7	8	12	13	15	19	20	19	15	13	9	9	159
	DIVERSION	7	8	12	13	15	19	20	19	15	13	9	9	159
DOMESTIC		3	2	2	3	3	3	4	2	2	2	2	2	30
	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	11	11	23	39	53	59	60	56	37	23	11	9	391
	CONSUMPTIVE USE	23	22	46	76	101	112	116	105	70	45	22	19	757
<b>YUMA COUNTY WATER USERS' ASSOCIATION</b>														
DIVERSION AT IMPERIAL DAM		20,784	19,983	40,171	43,959	40,407	26,312	46,213	22,492	25,767	39,379	25,474	15,576	366,517
	DIVERSION	20,784	19,983	40,171	43,959	40,407	26,312	46,213	22,492	25,767	39,379	25,474	15,576	366,517
PUMPED FROM WELLS		113	99	110	62	68	160	69	108	0	152	165	153	1,259
	DIVERSION	113	99	110	62	68	160	69	108	0	152	165	153	1,259
	MEASURED RETURNS	9,227	7,446	9,172	9,893	10,592	7,805	8,525	7,276	10,248	13,281	13,056	10,979	117,500
	UNMEASURED RETURNS	439	422	846	924	850	556	972	475	541	830	538	330	7,723
	CONSUMPTIVE USE	11,231	12,214	30,263	33,204	29,033	18,111	36,785	14,849	14,978	25,420	12,045	4,420	242,553
<b>COCOPA INDIAN RESERVATION</b>														
DIVERSION AT IMPERIAL DAM		106	0	639	777	945	1,172	1,143	1,115	1,145	1,058	520	470	9,090
	DIVERSION	106	0	639	777	945	1,172	1,143	1,115	1,145	1,058	520	470	9,090
PUMPED FROM WELLS	12	129	160	220	237	290	357	384	372	289	246	175	174	3,033
	DIVERSION	129	160	220	237	290	357	384	372	289	246	175	174	3,033
	MEASURED RETURNS	2	1	11	10	21	26	24	44	40	39	17	16	251
	UNMEASURED RETURNS	80	54	292	345	420	520	519	506	488	443	236	219	4,122
	CONSUMPTIVE USE	153	105	556	659	794	983	984	937	906	822	442	409	7,750
<b>RECLAMATION - YUMA AREA OFFICE</b>														
WELL		62	56	67	17	32	42	11	11	4	2	8	11	323
	DIVERSION	62	56	67	17	32	42	11	11	4	2	8	11	323
	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	62	56	67	17	32	42	11	11	4	2	8	11	323
<b>PUMPED FROM SOUTH GILA WELLS (DPOC'S)</b>														
	MEASURED RETURNS	4,006	2,955	5,169	2,257	1,723	1,343	5,418	6,010	2,141	179	173	178	31,552
	UNMEASURED RETURNS	-4,006	-2,955	-5,169	-2,257	-1,723	-1,343	-5,418	-6,010	-2,141	-179	-173	-178	-31,552
	RETURNS CREDIT	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>OTHER USERS PUMPING FROM COLORADO</b>														
RIVER AND WELLS IN FLOOD PLAIN DAVIS		1,092	1,122	1,992	2,222	2,731	2,989	2,998	2,973	2,074	1,968	1,463	1,330	24,954
	DIVERSION	1,092	1,122	1,992	2,222	2,731	2,989	2,998	2,973	2,074	1,968	1,463	1,330	24,954
DAM TO INTERNATIONAL BOUNDARY	14	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	392	401	699	783	866	1,059	1,061	1,055	734	692	516	468	8,726
	CONSUMPTIVE USE	700	721	1,293	1,439	1,865	1,930	1,937	1,918	1,340	1,276	947	862	16,228
<b>ARIZONA TOTALS</b>														
	DIVERSION	181,347	234,510	364,565	394,174	381,749	378,598	324,013	284,161	276,833	314,194	273,787	234,999	3,642,930
	MEASURED RETURNS	48,706	47,681	61,518	60,292	59,407	56,493	66,490	66,180	58,969	61,115	55,693	48,889	691,433
	UNMEASURED RETURNS	3,371	6,048	12,356	18,877	19,132	23,784	20,706	19,456	16,143	13,704	9,102	7,711	170,389
	CONSUMPTIVE USE	129,270	180,781	290,691	315,005	303,211	298,321	236,817	198,525	201,721	239,375	208,992	178,399	2,781,108

NOTE: The term 'CONSUMPTIVE USE' in this tabulation means diversions including underground pumping, less measured return flow and less unmeasured return flow to the river.

DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 2011  
STATE OF ARIZONA

5/15/12

(Values in acre-feet)

WATER USER	Ftnts	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL <sup>1</sup>
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1. Totals may differ from the sum of the monthly values due to rounding to the nearest acre-foot.
2. Diversion amounts include deliveries to the Fort Mojave Indian Reservation from the City of Needles, CA.
3. Reported as an annual total only, distributed monthly according to the monthly use patterns of nearby users.
4. Havasu NWR diversion amounts have been adjusted downward for diversions out of the Topock Marsh inlet canal by Mohave Valley Irrigation and Drainage District and Fort Mojave Indian Reservation and have taken into account the Fire Break canal and inflows through the Topock Marsh outlet structure.
5. The Town of Parker diversion amounts have been adjusted downward for potable water delivered to the Colorado River Indian Tribes by the Town of Parker.
6. Sum of diversions by two river pumps, water delivered by the Town of Parker and an estimate of municipal diversion. Municipal diversions are estimated by multiplying CRIT's measured effluent by the Town of Parker's diversion to effluent ratio. CRIT portion of wastewater returns from Joint Venture Treatment Plant are combined with agricultural drainage measured at Scott Road gage.
7. Use for lands leased from ASLD by Gila Monster Farms has been deducted.
8. Main Outlet Drain return flow credit is measured flow at Station 0+00. For those comparing this return value to the "Water Bypassed Pursuant to Minute 242 of the IBWC", differences can result from 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 the Yuma Desalting Plant Pilot Run. During periods of sustained flow in the Gila River this measurement includes both Colorado River and Gila River water. At such times Reclamation will determine how best to differentiate return flows from the two sources.
9. Summation for the Yuma Mesa Division, consisting of the North Gila Valley Irrigation and Drainage District, the Yuma Irrigation District, and the Yuma Mesa Irrigation and Drainage District is as follows:

<u>Item</u>	<u>Annual Totals</u>
Diversions at Imperial Dam <sup>A</sup>	306,778
Pumped from wells	942
Surface returns from South Gila Valley (South Gila Canal Terminal Wasteway)	3,005
Return flow North Gila Valley (6 drains and wasteways)	9,766
Total Yuma Mesa Division Unmeasured Returns	52,131
Return flow Yuma Mesa Outlet Drain <sup>B</sup>	18,394
Return flow protective and regulatory pumping unit <sup>C</sup>	24,815
Estimated unmeasured groundwater return flow <sup>D</sup>	27,933
Return flow share of Gila Main Canal loss <sup>E</sup>	25,252
Subtotal return flow	161,295
Consumptive Use (see note above)	146,425

<sup>A</sup> Total diversions at Imperial Dam for the North Gila Valley Irrigation and Drainage District, Yuma Irrigation District, and Yuma Mesa Irrigation and Drainage District.

<sup>B</sup> Estimated at 85 percent of the Yuma Mesa Outlet Drain with the balance credited to 'Unit B'.

<sup>C</sup> Estimated at 85 percent of Protective and Regulatory Pumping Unit with the balance credited to 'Unit B'.

<sup>D</sup> Estimated at 38 percent of the North Gila Valley I.D.D. diversion at Imperial Dam plus 14 percent of Yuma Irrigation District's diversion at Imperial Dam. This calculation is based on an analysis of the USGS Report 83-4220.

<sup>E</sup> Diversion times a mileage weighted share of Gila Main Canal loss, less canal surface evaporation (1397 af/yr), and phreatophytes (2154 af/yr).

10. Diversion values have been reduced for those users (Ogram Boys' Enterprises, G Ogram, and ASLD) who take deliveries outside District boundaries. Those diversions appear in the Arizona Supplemental section.
11. Diversion and return values include pumpage from AEW-6,7,8,10,11,41, some of which deliver water for irrigation; others are pumped to control groundwater elevation.
12. Diversion amounts include pumpage from AEW-15, 16 and the Cocopah Bend R.V. Park. The diversions reported on this line include deliveries to the Cocopah Tribe's Trust and Fee lands.
13. 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.
14. Details may be found in the Arizona Supplemental Tabulation pages.



ARIZONA SUPPLEMENTAL TABULATION  
CALENDAR YEAR 2011  
STATE OF ARIZONA

WATER USER	5/15/12		(Values in acre-feet)												
	Fmts	USGS # <sup>1</sup>	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Marble Canyon Company			1	1	1	1	1	2	2	2	1	1	1	0	14
SUBTOTAL, LEE FERRY TO DAVIS DAM	2		1	1	1	1	1	2	2	2	1	1	1	0	14
		DIVERSION	1	1	1	1	1	2	2	2	1	1	1	0	14
		MEASURED RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
		UNMEASURED RETURNS	0	0	0	0	1	1	1	1	1	0	0	0	5
		CONSUMPTIVE USE	1	1	1	1	0	1	1	1	0	1	1	0	9
Maurice McAlister (river Intake)			0	0	1	1	1	1	1	1	1	1	1	1	10
Crystal Beach Water Conservation District			7	7	8	9	10	10	11	10	9	8	8	7	104
Arizona-American Water Company			58	58	57	69	68	69	79	69	92	86	67	52	824
Arizona State Parks (Windsor Beach)			2	2	1	1	3	4	3	3	2	3	2	2	28
SUBTOTALS, DAVIS DAM TO PARKER DAM	2		67	67	67	80	82	84	94	83	104	98	78	62	966
		DIVERSION	67	67	67	80	82	84	94	83	104	98	78	62	966
		MEASURED RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
		UNMEASURED RETURNS	23	23	23	27	29	30	34	30	36	34	28	21	338
		CONSUMPTIVE USE	44	44	44	53	53	54	60	53	68	64	50	41	628
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	0	0	0	0	1	1	1	0	0	0	3
Rayner Ranches (Jack Rayner Jr.)		AEP-9	187	234	319	345	421	511	557	536	422	353	251	247	4,383
Arizona State Land Department (domestic)			2	2	1	1	2	3	3	3	4	2	1	1	25
Arizona State Land Department (agricultural)		ADP-6	21	31	201	174	315	383	421	342	148	85	38	0	2,159
North Baja Pipeline (aka TransCanada)			15	24	23	15	25	42	38	28	18	15	23	22	288
BLM Permittees (LHFO & YFO)			62	51	71	75	77	79	87	77	67	103	57	79	885
Fisher's Landing Water and Sewer LLC			3	2	2	2	2	3	3	3	3	3	2	3	31
Shepard Water Company			2	1	2	3	3	3	3	3	2	2	2	2	28
SUBTOTALS, PARKER DAM TO IMPERIAL DAM	2		293	346	620	616	846	1,026	1,115	995	666	564	375	355	7,817
		DIVERSION	293	346	620	616	846	1,026	1,115	995	666	564	375	355	7,817
		MEASURED RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
		UNMEASURED RETURNS	102	122	217	216	196	360	390	349	232	199	130	124	2,637
		CONSUMPTIVE USE	191	224	403	400	650	666	725	646	434	365	245	231	5,180
JRJ Partners LLC (aka Bard Date Gardens)		AEP-1, AEW-3	54	29	98	122	117	71	120	114	34	102	109	102	1,072
Befra Farming LLC. (formerly Cha Cha)	3	AEP-2/3, AEW-4/5, ADW-3	5	15	136	104	215	222	218	201	194	60	114	34	1,518
Russell Youmans (Beattie Farms Southwest)	3	ADW-2	67	83	114	123	150	182	199	191	150	126	90	88	1,563
BLM Permittees (YFO)			0	0	0	1	4	1	49	27	5	2	3	0	92
L. Pratt	3		16	19	27	29	35	43	47	45	35	29	21	21	367
George Ogram	3,4	AEW-9	4	18	32	33	94	42	75	80	24	41	22	10	475
Ogram Boys' Enterprises	3,4		20	30	55	97	143	182	131	84	59	48	48	22	919
John Peach	3	AEW-12	18	22	30	32	40	48	52	50	40	33	24	23	412
Arizona Public Service Company. (Yucca Power Plant)	3		83	71	13	46	54	61	81	77	28	5	12	8	539
Amigo Farms	3	AEW-14, ADP-1	8	11	14	15	19	23	25	24	19	16	11	11	196
Armon Curtis (formerly Curry Family Limited)	3	AEP-4, ADP-2	5	6	9	9	11	14	15	14	11	10	7	7	118
Pete Power	3	ADP-3/4	19	23	32	35	42	51	56	54	42	35	25	25	439
Gary Pasquinnelli	4	ADP-5	16	20	30	26	8	26	13	20	45	31	17	12	264
Arizona State Land Department (agricultural)			416	361	714	853	870	911	706	912	617	767	506	550	8,183
SUBTOTALS, BELOW IMPERIAL DAM	2		731	708	1,304	1,525	1,802	1,877	1,787	1,893	1,303	1,305	1,009	913	16,157
		DIVERSION	731	708	1,304	1,525	1,802	1,877	1,787	1,893	1,303	1,305	1,009	913	16,157
		MEASURED RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
		UNMEASURED RETURNS	267	256	459	540	640	668	636	675	465	459	358	323	5,746
		CONSUMPTIVE USE	464	452	845	985	1,162	1,209	1,151	1,218	838	846	651	590	10,411
TOTAL ARIZONA SUPPLEMENTAL TABULATION	2		1,092	1,122	1,992	2,222	2,731	2,989	2,998	2,973	2,074	1,968	1,463	1,330	24,954
		DIVERSION	1,092	1,122	1,992	2,222	2,731	2,989	2,998	2,973	2,074	1,968	1,463	1,330	24,954
		MEASURED RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
		UNMEASURED RETURNS	392	401	699	783	866	1,059	1,061	1,055	734	692	516	468	8,726
		CONSUMPTIVE USE	700	721	1,293	1,439	1,865	1,930	1,937	1,918	1,340	1,276	947	862	16,228

**Foot notes:**

- References such as AEW/ADP/AEP are defined on page 1, Acronyms and Abbreviated Terms.
- Monthly and annual totals rounded and displayed to the nearest whole number.
- Calculated by the USGS using field crop verification and ET methodologies. See Significant Documents section of this report for further discussion.
- George Ogram, Ogram Boys' Enterprises, and some ASLD lands have water delivered (wheeled) to them by YID from the GGMC. A proportionate share of the loss associated with the GGMC has been assessed.

DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 2011  
STATE OF CALIFORNIA

5/15/12

(Values in acre-feet)

WATER USER	Ftnts		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL <sup>1</sup>
FORT MOJAVE INDIAN RESERVATION															
AGRICULTURAL - RIVER PUMPS	2	DIVERSION	437	936	2,306	1,588	1,975	1,636	1,278	1,972	580	487	1,202	365	14,762
DOMESTIC - WELLS	2	DIVERSION	2	2	4	5	8	8	6	8	5	6	5	5	64
		MEASURED RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
		UNMEASURED RETURNS	203	433	1,067	736	916	760	593	915	270	228	558	171	6,850
		CONSUMPTIVE USE	236	505	1,243	857	1,067	884	691	1,065	315	265	649	199	7,976
CITY OF NEEDLES															
WELLS	3	DIVERSION	137	92	126	144	200	214	224	241	164	160	150	123	1,975
		MEASURED RETURNS	46	41	45	47	38	28	27	29	25	26	24	25	401
		UNMEASURED RETURNS	21	19	21	22	18	13	13	13	12	12	11	12	187
		CONSUMPTIVE USE	70	32	60	75	144	173	184	199	127	122	115	86	1,387
CHEMEHUEVI INDIAN RESERVATION															
PUMPED FROM RIVER AND WELLS		DIVERSION	10	11	10	10	12	17	17	20	21	18	17	11	174
		MEASURED RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
		UNMEASURED RETURNS	5	5	5	5	6	8	8	9	10	8	8	5	82
		CONSUMPTIVE USE	5	6	5	5	6	9	9	11	11	10	9	6	92
METROPOLITAN WATER DISTRICT															
DIVERSION FROM LAKE HAVASU		DIVERSION	40,138	17,523	54,757	55,355	64,490	74,175	77,208	70,178	64,351	6,673	5,401	11,752	542,001
EXCHANGE WITH THE SDCWA	4	DIVERSION	11,846	5,172	16,161	16,337	19,034	21,892	22,787	20,712	18,992	1,970	1,594	3,468	159,965
		MEASURED RETURNS	236	251	230	230	223	191	259	259	262	266	273	296	2,976
		UNMEASURED RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
		CONSUMPTIVE USE	51,748	22,444	70,688	71,462	83,301	95,876	99,736	90,631	83,081	8,377	6,722	14,924	698,990
PARKER DAM AND GOVERNMENT CAMP															
DIVERSION AT PARKER DAM	3	DIVERSION	6	6	7	8	8	10	12	10	2	6	0	5	80
		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	6	6	7	8	8	10	12	10	2	6	0	5	80
COLORADO RIVER INDIAN RESERVATION															
RIVER PUMPS AND WELLS		DIVERSION	201	251	344	371	453	550	600	577	454	380	270	266	4,717
BIG RIVER - WELLS		DIVERSION	38	35	42	50	60	75	77	77	64	61	41	33	653
		MEASURED RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
		UNMEASURED RETURNS	100	119	161	175	214	261	282	273	216	184	130	125	2,240
		CONSUMPTIVE USE	139	167	225	246	299	364	395	381	302	257	181	174	3,130
CITY OF WINTERHAVEN															
1 WELL	5	DIVERSION	9	8	9	8	8	10	10	9	8	9	9	7	104
		MEASURED RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
		UNMEASURED RETURNS	3	3	3	3	3	3	3	3	3	3	3	2	35
		CONSUMPTIVE USE	6	5	6	5	5	7	7	6	5	6	6	5	69
PALO VERDE IRRIGATION DISTRICT															
DIVERSION AT PALO VERDE DAM		DIVERSION	31,720	41,540	60,520	73,620	87,720	95,740	93,440	105,100	87,610	60,120	38,390	34,740	810,260
		MEASURED RETURNS	28,461	28,285	31,714	34,532	42,048	42,518	41,217	42,721	42,011	40,428	35,828	35,035	444,798
		UNMEASURED RETURNS	1,776	2,326	3,389	4,123	4,912	5,361	5,233	5,886	4,906	3,367	2,150	1,945	45,374
		CONSUMPTIVE USE	1,483	10,929	25,417	34,965	40,760	47,861	46,990	56,493	40,693	16,325	412	-2,240	320,088
YUMA PROJECT RESERVATION DIVISION, INDIAN UNIT															
DIVERSION AT IMPERIAL DAM		DIVERSION	2,339	1,752	5,991	6,536	5,432	1,635	3,909	5,123	1,595	4,416	3,024	2,495	44,247
DOMESTIC	6	DIVERSION	34	42	58	63	76	93	101	97	77	64	45	45	795
		MEASURED RETURNS	32	5	92	70	102	32	74	153	51	137	90	61	899
		UNMEASURED RETURNS	396	300	1,010	1,102	920	289	670	872	279	748	513	424	7,523
YUMA PROJECT RESERVATION DIVISION, BARD UNIT															
DIVERSION AT IMPERIAL DAM		DIVERSION	2,606	2,077	5,969	6,510	6,154	3,579	3,426	4,928	4,512	4,878	3,448	1,465	49,552
		MEASURED RETURNS	19	3	50	39	62	37	36	89	71	86	52	23	567
		UNMEASURED RETURNS	435	347	997	1,087	1,028	598	572	823	754	815	576	245	8,277
RETURNS FROM YUMA PROJECT															
RESERVATION DIVISION		MEASURED RETURNS	1,340	1,224	1,883	2,670	2,812	2,167	2,824	3,134	2,690	2,402	2,609	2,544	28,299
SUM, YUMA PROJECTS, RESERVATION DIVISION USE	7	CONSUMPTIVE USE	2,757	1,992	7,986	8,141	6,738	2,184	3,260	5,077	2,339	5,170	2,677	708	49,029

DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 2011  
STATE OF CALIFORNIA

5/15/12

(Values in acre-feet)

WATER USER	Ftnts		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL <sup>1</sup>
<b>IMPERIAL IRRIGATION DISTRICT</b>															
<b>DIVERSION AT IMPERIAL DAM</b>															
		DIVERSION	148,868	131,536	271,913	317,419	317,743	305,923	333,956	303,172	243,663	240,458	159,160	125,542	2,899,353
		MEASURED RETURNS	3,359	664	6,742	5,463	9,540	9,498	9,701	16,320	11,714	12,175	7,303	5,730	98,209
		UNMEASURED RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
		DELIVERY FROM WARREN H. BROCK RESERVOIR	0	4,106	15,495	12,214	12,659	1,388	11,421	12,698	16,761	13,226	10,499	4,173	114,640
	8	IID TOTAL CONSUMPTIVE USE	145,509	134,978	280,666	324,170	320,862	297,813	335,676	299,550	248,710	241,509	162,356	123,985	2,915,784
<b>WATER TRANSFERRED TO SDCWA FOR MITIGATION</b>															
		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
		CA CONSUMPTIVE USE	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>COACHELLA VALLEY WATER DISTRICT</b>															
<b>DIVERSION AT IMPERIAL DAM</b>															
		DIVERSION	16,356	17,641	23,358	27,842	32,108	33,318	34,096	36,940	29,634	27,853	23,616	17,811	320,573
		MEASURED RETURNS	369	89	579	479	964	1,034	990	1,989	1,425	1,410	1,084	813	11,225
		UNMEASURED RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
		CONSUMPTIVE USE	15,987	17,552	22,779	27,363	31,144	32,284	33,106	34,951	28,209	26,443	22,532	16,998	309,348
<b>OTHER USERS PUMPING FROM COLORADO RIVER AND WELLS IN FLOOD PLAIN</b>															
		DIVERSION	523	643	871	949	1,145	1,390	1,551	1,477	1,157	964	718	677	12,065
		MEASURED RETURNS	9	11	15	16	19	24	26	25	19	16	12	11	203
		UNMEASURED RETURNS	221	274	375	409	492	599	665	635	497	412	307	288	5,174
	10	CONSUMPTIVE USE	293	358	481	524	634	767	860	817	641	536	399	378	6,688
<b>CALIFORNIA TOTALS</b>															
		DIVERSION	255,270	219,267	442,446	506,815	536,626	540,265	572,698	550,641	452,889	348,523	237,090	198,810	4,861,340
		MEASURED RETURNS	33,871	30,573	41,350	43,546	55,808	55,529	55,154	64,719	58,268	56,946	47,275	44,538	587,577
		UNMEASURED RETURNS	3,160	3,826	7,028	7,662	8,509	7,892	8,039	9,429	6,947	5,777	4,256	3,217	75,742
		CONSUMPTIVE USE	218,239	188,974	409,563	467,821	484,968	478,232	520,926	489,191	404,435	299,026	196,058	155,228	4,312,661

**NOTE:** The term 'CONSUMPTIVE USE' in this tabulation means diversions including underground pumping, less measured return flow and less unmeasured return flow to the river.

**Footnotes:**

1. Due to rounding to the nearest acre-foot, totals may differ from the sum of the monthly values.
2. Diversion amounts include any deliveries to the Fort Mojave Indian Reservation by the City of Needles. Diversion values listed as pumped from river and wells are provided by the Fort Mojave Indian Tribe and Reclamation.
3. All or a portion of this Colorado River use is offset by pumping from the LCWSP. Details shown in the LCWSP section of this report.
4. Water conserved by IID and transferred to SDCWA, in accordance with the CRWDA and the IID/SDCWA Water Transfer Agreement and water allocated to SDCWA as a result of the CCLP and AACLP pursuant to Article 10 of the October 10, 2003 Allocation Agreement. At SDCWA's election, the water was delivered by the Secretary to Lake Havasu under Article 4(c) of the CRWDA and there made available by SDCWA to MWD under the terms of the SDCWA/MWD Exchange Agreement. The CRWDA, Exhibit B, provides for an 80,000 af transfer from IID to SDCWA in 2011. IID informed Reclamation that: in 2011, IID entered into following contracts for 80,000 af, to be conserved partly in 2011 and partly in 2012, to support the transfer of 80,000 af from IID to SDCWA in 2011; in 2011 IID conserved 63,278 acre-feet under the following contracts to support the IID-SDCWA transfer; in 2012 IID will conserve an additional 16,722 acre-feet of water under the 2011/2012 following contracts to support the full 80,000 af IID-SDCWA transfer obligation for 2011. The appropriate accounting for the 2011 IID-SDCWA transfer is under review by Reclamation and will be reflected in a future Colorado River Accounting and Water Use Report.
5. Reported as an annual total only then distributed monthly according to the monthly use patterns of nearby users.
6. These values represent an estimate of the amount of diversions required by the Tribe to provide domestic water service for users within the Reservation.
7. Unassigned measured returns include drainage from the Indian Unit and the Bard Unit in the Reservation Division but excludes seepage from the AAC.
8. 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.
9. IID conserved 33,736 acre-feet of Colorado River water in 2010 which was transferred to SDCWA and exchanged with CVWD for non-Colorado River water to meet Salton Sea mitigation requirements for 2010. Also, in 2010, IID delivered 46,546 acre-feet 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. The appropriate accounting for the 46,546 acre-feet is under review by Reclamation and is the subject of Reclamation letters dated October 14, 2010, December 15, 2010, June 29, 2011, and October 11, 2011, which have been included on the CD enclosed with this Colorado River Accounting and Water Use Report for 2011. The final accounting for the 46,546 acre-feet will be reflected in a future Colorado River Accounting and Water Use Report.
10. Details can be found on the California Supplemental page.

CALIFORNIA SUPPLEMENTAL TABULATION  
CALENDAR YEAR 2011  
STATE OF CALIFORNIA

5/15/12

(Values in acre-feet)

WATER USER	Ftnts	USGS# <sup>1</sup>	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
De Soto Ranch	2	CEW-17	0	0	0	0	0	0	0	0	0	0	0	0	0
De Soto Ranch	2	CEW-18	0	0	0	0	0	0	0	0	0	0	0	0	0
Southern California Gas	3	CEW-21	3	4	5	5	6	8	9	8	7	5	4	4	68
Pacific Gas & Electric Company	3		9	11	15	16	20	24	26	25	20	17	12	12	207
Havasu Water Company	3	Needles report	3	3	4	5	6	7	8	7	6	5	3	3	60
Vista Del Lago	3	Needles report	1	1	1	1	1	2	2	2	2	2	1	1	17
Wells reported under non-Federal subcontracts to LCWSP	3	Needles report	13	16	22	23	28	35	37	36	28	24	17	17	296
SUBTOTALS, DAVIS DAM TO PARKER DAM	4	DIVERSION	29	35	47	50	61	76	82	78	63	53	37	37	648
	5	MEASURED RETURNS	9	11	15	16	19	24	26	25	19	16	12	11	203
		UNMEASURED RETURNS	7	8	12	12	14	18	19	18	15	13	8	8	152
		CONSUMPTIVE USE	13	16	20	22	28	34	37	35	29	24	17	18	293
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	1	0	0	0	0	0	1
Wetmore, Mark M.			0	0	1	1	1	1	1	1	1	1	1	0	9
Citrus Ranch (C.L. Lye)	2	CEW-16	0	0	0	0	0	0	0	0	0	0	0	0	0
BLM Permitees (LHFO & YFO)	3.6		27	22	24	34	27	30	67	55	34	26	51	23	420
SUBTOTALS, PARKER DAM TO IMPERIAL DAM	4	DIVERSION	27	22	25	35	29	32	71	57	36	27	52	23	436
		MEASURED RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
		UNMEASURED RETURNS	6	5	6	9	7	8	18	16	11	6	17	5	114
		CONSUMPTIVE USE	21	17	19	26	22	24	53	41	25	21	35	18	322
<b>FORT YUMA INDIAN RESERVATION - CA</b>															
Living Earth Farm	2	CEW-2, CDP-3	32	40	54	59	72	87	95	91	72	60	43	42	747
MivCo Packing	2	CEW-14	43	54	74	80	97	118	129	124	98	82	58	57	1,014
Valdez, Mike	2	CDP-1,2, CEW-01, CEW-15	57	71	97	104	127	155	169	162	128	107	76	75	1,328
Ranch "5" Lands, Yuma Island, CA (351 ac)	7	AAC diversion	40	50	68	74	90	110	120	115	91	76	54	53	941
Huerta Packing	2	CDP-6/7	0	0	0	0	0	0	0	0	0	0	0	0	0
SUM OF PUMPING ON FYIR, CALIFORNIA	4	DIVERSION	172	215	293	317	386	470	513	492	389	325	231	227	4,030
SUM OF UNMEASURED RETURNS, FYIR, CALIFORNIA		UNMEASURED RETURNS	76	96	131	142	173	210	231	221	173	145	103	101	1,802
<b>YUMA ISLAND - CALIFORNIA</b>															
Arizona State Land Department Lessees:															
Curtis Family Trust	2	AEP-02, AEP-03, AEW-04, AEW-05, ADW-03	6	8	11	12	15	18	19	19	15	12	9	8	152
Martin Family Trust	2	CEP-01,02, CDW-07	13	17	23	25	30	37	40	38	30	25	18	18	314
Billy Turner	2	CDW-5, CEW-7	3	4	5	5	6	8	9	8	6	5	4	4	67
Leroy Heile	2	CDW-8 (CEW-12)	95	119	163	175	215	260	284	273	215	180	128	126	2,233
James Wilson	2	CEW-11	13	16	22	24	29	36	39	37	29	25	17	17	304
Griffin Produce Company	2	CDW-2	19	24	33	36	43	53	57	55	43	36	26	25	450
Perez Family Trust	2	CEW-9	18	23	31	34	42	50	55	53	42	35	25	24	432
Clifford Winton Jr.	2,8	CEW-13	0	0	0	0	0	0	0	0	0	0	0	0	0
Clara Jean Wilson	2,8		2	3	4	4	5	6	7	7	5	4	3	3	53
Lou Ella Harp	2,8		0	0	0	0	0	0	0	0	0	0	0	0	0
Robert E. Harp	2,8		36	45	61	66	81	98	106	103	81	68	48	47	840
K.H. Easterday	2		29	36	50	54	66	80	87	83	66	55	39	38	683
Richard Lee Wilson	2		3	4	5	6	7	9	10	9	7	6	4	4	74
Dees, Alex	2		48	60	82	88	108	131	143	137	108	91	64	63	1,123
Mike Palmer (L.O. Power)	2		10	12	16	18	22	26	29	28	22	17	13	13	226
SUM OF PUMPING ON THE YUMA ISLAND, CALIFORNIA	4	DIVERSION	295	371	506	547	669	812	885	850	669	559	398	390	6,951
SUM OF UNMEASURED RETURNS, YUMA ISLAND - CALIFORNIA		UNMEASURED RETURNS	132	165	226	246	298	363	397	380	298	248	179	174	3,106
SUBTOTALS, ALL USES BELOW IMPERIAL DAM		DIVERSION	467	586	799	864	1,055	1,282	1,398	1,342	1,058	884	629	617	10,981
		MEASURED RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
		UNMEASURED RETURNS	208	261	357	388	471	573	628	601	471	393	282	275	4,908
		CONSUMPTIVE USE	259	325	442	476	584	709	770	741	587	491	347	342	6,073
<b>TOTAL CALIFORNIA SUPPLEMENTAL TABULATION</b>															
		DIVERSION	523	643	871	949	1,145	1,390	1,551	1,477	1,157	964	718	677	12,065
		MEASURED RETURNS	9	11	15	16	19	24	26	25	19	16	12	11	203
		UNMEASURED RETURNS	221	274	375	409	492	599	665	635	497	412	307	288	5,174
		CONSUMPTIVE USE	293	358	481	524	634	767	860	817	641	536	399	378	6,688

CALIFORNIA SUPPLEMENTAL TABULATION  
 CALENDAR YEAR 2011  
 STATE OF CALIFORNIA

5/15/12

(Values in acre-feet)

WATER USER	Fmts	USGS# <sup>1</sup>	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
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**Footnotes:**

1. References such as CDW/CDP/CEP are defined on page 1, Acronyms and Abbreviated Terms.
2. Calculated by the USGS using field crop verification and ET methodologies. See Significant Documents section of this report for further discussion.
3. Tabulated use is offset by pumping from the LCWSP. Details shown in the LCWSP section of this report.
4. Monthly and annual totals rounded to the nearest whole number.
5. 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.
6. At the request of BLM, site specific unmeasured return flow factors have been developed and applied in CA. Some BLM lessees have very limited returns due to evaporation ponds and low application rates.
7. Surface water diversions from the AAC through Bard Water District. Diversion calculated by prorating total measured delivery by irrigated acreage in each state.
8. Acreage irrigated by co-mingled diversions from multiple wells. Diversion calculated using the methodology mentioned in footnote 2 above.

DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 2011  
STATE OF NEVADA

5/15/12

(Values in acre-feet)

WATER USER	Ftrts	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL <sup>1</sup>
<b>BOULDER CANYON PROJECT</b>														
DIVERSION AT HOOVER DAM														
	DIVERSION	4	4	4	5	4	3	3	3	3	3	2	2	40
	MEASURED RETURNS	3	2	2	3	2	2	3	3	2	2	2	2	28
	UNMEASURED RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
	CONSUMPTIVE USE	1	2	2	2	2	1	0	0	1	1	0	0	12
<b>ROBERT B. GRIFFITH WATER PROJECT</b>														
DIVERSION AT SADDLE ISLAND, LAKE MEAD														
	DIVERSION	26,918	25,321	31,346	34,042	39,915	38,084	42,041	43,137	34,869	36,486	28,741	25,491	406,391
<b>LAKE MEAD NATIONAL RECREATION AREA</b>														
DIVERSIONS FROM LAKE MEAD														
	DIVERSION	26	25	29	38	41	43	52	44	41	36	29	27	431
	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	26	25	29	38	41	43	52	44	41	36	29	27	431
<b>LAKE MEAD NATIONAL RECREATION AREA</b>														
DIVERSION FROM LAKE MOHAVE (COTTONWOOD)														
	DIVERSION	13	10	13	12	16	21	18	16	25	19	13	13	189
	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	13	10	13	12	16	21	18	16	25	19	13	13	189
<b>BASIC WATER COMPANY</b>														
DIVERSION AT SADDLE ISLAND, LAKE MEAD														
	DIVERSION	425	407	423	507	462	560	474	500	541	412	435	439	5,585
	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	425	407	423	507	462	560	474	500	541	412	435	439	5,585
<b>CITY OF HENDERSON</b>														
DIVERSION AT SADDLE ISLAND, LAKE MEAD														
	DIVERSION	981	913	1,428	1,654	1,672	1,673	1,251	1,230	1,292	1,297	1,291	1,112	15,794
	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	981	913	1,428	1,654	1,672	1,673	1,251	1,230	1,292	1,297	1,291	1,112	15,794
<b>NEVADA DEPARTMENT OF FISH &amp; GAME</b>														
DIVERSION AT SADDLE ISLAND, LAKE MEAD														
	DIVERSION	26	23	26	25	20	15	15	12	13	16	17	12	220
	MEASURED RETURNS	25	22	25	24	19	14	14	11	12	15	16	11	208
	UNMEASURED RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
	CONSUMPTIVE USE	1	1	1	1	1	1	1	1	1	1	1	1	12
<b>PACIFIC COAST BUILDING PRODUCTS INC.</b>														
DIVERSION AT GYPSUM WASH, LAKE MEAD														
	DIVERSION	37	35	51	42	49	52	53	66	57	52	57	56	607
	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	37	35	51	42	49	52	53	66	57	52	57	56	607
<b>SOUTHERN CALIFORNIA EDISON (SNWA)</b>														
WELL														
	DIVERSION	13	11	10	24	15	15	9	0	0	0	0	0	97
	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	13	11	10	24	15	15	9	0	0	0	0	0	97
<b>BIG BEND WATER DISTRICT</b>														
	DIVERSION	308	275	323	341	373	408	461	459	389	377	341	284	4,339
	MEASURED RETURNS	161	147	181	177	185	179	218	202	177	172	158	139	2,096
	UNMEASURED RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
	CONSUMPTIVE USE	147	128	142	164	188	229	243	257	212	205	183	145	2,243
<b>BIG BEND CONSERVATION AREA</b>														
	DIVERSION	0	0	0	0	0	0	1	0	1	0	1	1	4
	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	1	0	1	0	1	1	4
<b>FORT MOJAVE INDIAN RESERVATION</b>														
2 WELLS														
	DIVERSION	84	262	359	158	566	906	982	670	114	249	229	159	4,738
	MEASURED RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
	UNMEASURED RETURNS	28	86	118	52	187	299	324	221	38	82	76	52	1,563
	CONSUMPTIVE USE	56	176	241	106	379	607	658	449	76	167	153	107	3,175
<b>LAS VEGAS WASH RETURN FLOWS</b>														
	3 RETURNS	19,139	18,086	18,776	16,015	16,685	15,527	17,588	17,001	18,576	18,165	17,617	18,518	211,693

DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 2011  
STATE OF NEVADA

5/15/12

(Values in acre-feet)

WATER USER	Ftrts	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL <sup>1</sup>
<b>NEVADA TOTALS</b>														
	DIVERSION	28,835	27,286	34,012	36,848	43,133	41,780	45,360	46,137	37,345	38,947	31,156	27,596	438,435
	MEASURED RETURNS	19,328	18,257	18,984	16,219	16,891	15,722	17,823	17,217	18,767	18,354	17,793	18,670	214,025
	UNMEASURED RETURNS	28	86	118	52	187	299	324	221	38	82	76	52	1,563
	CONSUMPTIVE USE	9,479	8,943	14,910	20,577	26,055	25,759	27,213	28,699	18,540	20,511	13,287	8,874	222,847
<b>GROUNDWATER INJECTED STORAGE</b>														
	4													
LAS VEGAS VALLEY WATER DISTRICT	INJECTED	1,946	1,346	0	0	0	0	0	0	0	0	0	0	3,292
	WITHDRAWN	0	0	0	0	0	0	0	0	164	187	113	67	531
CITY OF NORTH LAS VEGAS	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

**NOTE:** The term 'CONSUMPTIVE USE' in this tabulation means diversions including underground pumping, less measured return flow and less unmeasured return flow to the river.

**Footnotes:**

1. Totals may differ from the sum of the monthly values due to rounding to the nearest acre-foot.
2. Diversions were fully measured and reported by Reclamation.
3. 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 12, 2007.

4. Nevada Injected Storage Balance:	4.1	Beginning of Year Cumulative Injected Storage	358,934
		Plus Current Year Additions	3,292
		Minus Current Year Withdrawals	531
		End of Year Cumulative Injected Storage	<u>361,695</u>

4.1 Colorado River water injected into ground water 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.

**RECORDS OF RELEASES OF MAINSTREAM WATER PURSUANT TO ORDERS  
THEREFOR BUT NOT DIVERTED BY PARTY ORDERING THE SAME, AND THE  
QUANTITY OF SUCH WATER DELIVERED TO MEXICO IN SATISFACTION OF THE  
MEXICAN TREATY OR DIVERTED BY OTHERS; IN ACCORDANCE WITH ARTICLE V(C)  
OF THE CONSOLIDATED DECREE OF THE UNITED STATES SUPREME COURT IN  
*ARIZONA V. CALIFORNIA, 547 U.S. 150 (2006)***

The following tabulations for calendar year 2011 show records of releases of mainstream water pursuant to orders therefor but not diverted by the party ordering the same (rejected water), and the quantity of such water delivered to Mexico in satisfaction of the Mexican Treaty or diverted by others in satisfaction of decreed rights. In addition to the requirements of the Decree, Reclamation tabulated quantities of such rejected water passing to Mexico in excess of treaty requirements and quantities captured in storage in federally operated facilities.

Water ordered but not diverted was computed daily for each diverter as the difference between the approved daily order and the mean daily delivery on the day the diversion was made. The monthly quantities shown on the tabulations are the sum of the daily quantities. 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 others in satisfaction of their rights. Any remaining water ordered but not diverted was apportioned between delivery to storage, delivery to Mexico in satisfaction of treaty requirements and finally, to Mexico in excess of treaty requirements.

The water users included in this tabulation are the major water users from which 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 sheet is included for Nevada. In addition, the storage capacity of Lake Mead is large enough in relation to the present daily diversions from the reservoir by Nevada 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 "Delivered to Mexico in Excess of Treaty" values displayed in this section of the report reflect only the water over delivered to Mexico, 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. No comparison between the two sections should be made.



RELEASE OF MAINSTREAM WATER PURSUANT TO ORDERS  
 BUT NOT DIVERTED BY PARTY ORDERING SAME AND  
 QUANTITY OF SUCH WATER DELIVERED TO MEXICO IN SATISFACTION OF MEXICAN TREATY OR DIVERTED BY OTHERS  
 CALENDAR YEAR 2011  
 STATE OF ARIZONA

WATER USER	5/15/12												TOTAL
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
(Values in acre-feet)													
CENTRAL ARIZONA PROJECT, DIVERSION AT LAKE HAVASU													
ORDERED BUT NOT DIVERTED	2,888	4,165	5,540	401	1,551	679	76	1,589	3,447	701	666	2,310	24,013
DELIVERED TO MEXICO IN													
SATISFACTION OF TREATY													
DIVERTED BY OTHERS													
DELIVERED TO STORAGE <sup>1</sup>	2,888	4,165	5,540	401	1,551	679	76	1,589	3,447	701	666	2,310	24,013
DELIVERED TO MEXICO IN													
EXCESS OF TREATY	0	0	0	0	0	0	0	0	0	0	0	0	0
COLORADO RIVER INDIAN RESERVATION, DIVERSION AT HEADGATE ROCK													
ORDERED BUT NOT DIVERTED	6,911	1,252	3,047	24,337	1,870	770	992	595	2,457	2,007	1,595	1,811	47,644
DELIVERED TO MEXICO IN	1,869	615	1,410	12,778	259	76	115	75	1,038	831	769	675	20,512
SATISFACTION OF TREATY													
DIVERTED BY OTHERS	950	243	1,026	8,644	1,350	532	565	473	840	748	574	492	16,436
DELIVERED TO STORAGE <sup>1</sup>	2,946	65	425	2,589	226	162	293	35	509	260	198	557	8,265
DELIVERED TO MEXICO IN													
EXCESS OF TREATY	1,146	328	185	327	35	0	18	12	71	168	54	86	2,430
NORTH GILA VALLEY I.D.D., DIVERSION AT IMPERIAL DAM													
ORDERED BUT NOT DIVERTED	1,416	489	260	268	521	503	862	783	612	897	1,127	870	8,606
DELIVERED TO MEXICO IN	344	149	65	41	97	60	152	55	161	217	538	193	2,071
SATISFACTION OF TREATY													
DIVERTED BY OTHERS	613	162	170	156	359	330	548	556	220	492	277	263	4,146
DELIVERED TO STORAGE <sup>1</sup>	254	86	3	41	48	111	143	148	202	117	243	233	1,631
DELIVERED TO MEXICO IN													
EXCESS OF TREATY	205	92	22	29	16	1	19	24	29	70	68	181	758
GILA MONSTER FARMS, DIVERSION AT IMPERIAL DAM													
ORDERED BUT NOT DIVERTED	589	835	670	270	328	420	260	426	695	467	621	832	6,414
DELIVERED TO MEXICO IN	104	263	294	57	61	37	62	50	263	119	311	181	1,800
SATISFACTION OF TREATY													
DIVERTED BY OTHERS	278	388	286	171	220	317	158	324	269	246	171	302	3,129
DELIVERED TO STORAGE <sup>1</sup>	85	70	56	7	36	67	35	43	126	68	109	248	950
DELIVERED TO MEXICO IN													
EXCESS OF TREATY	123	115	33	35	12	0	5	9	37	34	31	101	535
WELLTON-MOHAWK I.D.D., DIVERSION AT IMPERIAL DAM													
ORDERED BUT NOT DIVERTED	1,194	4,174	3,087	1,942	4,052	724	4,442	1,891	3,218	2,372	8,000	6,429	41,526
DELIVERED TO MEXICO IN	723	2,249	1,258	351	751	45	2,208	246	1,119	250	3,951	1,302	14,453
SATISFACTION OF TREATY													
DIVERTED BY OTHERS	181	378	1,258	898	2,568	367	1,377	1,027	1,597	1,603	2,367	2,332	15,953
DELIVERED TO STORAGE <sup>1</sup>	192	643	294	45	574	312	855	516	405	473	1,476	1,463	7,246
DELIVERED TO MEXICO IN													
EXCESS OF TREATY	99	905	277	648	160	0	3	102	97	46	205	1,333	3,874

RELEASE OF MAINSTREAM WATER PURSUANT TO ORDERS  
 BUT NOT DIVERTED BY PARTY ORDERING SAME AND  
 QUANTITY OF SUCH WATER DELIVERED TO MEXICO IN SATISFACTION OF MEXICAN TREATY OR DIVERTED BY OTHERS  
 CALENDAR YEAR 2011  
 STATE OF ARIZONA

WATER USER	5/15/12												TOTAL
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
(Values in acre-feet)													
<b>YUMA IRRIGATION DISTRICT, DIVERSION AT IMPERIAL DAM</b>													
ORDERED BUT NOT DIVERTED	238	233	137	85	306	262	275	237	248	258	307	82	2,670
DELIVERED TO MEXICO IN SATISFACTION OF TREATY	44	99	74	18	123	28	97	39	15	70	132	8	747
DIVERTED BY OTHERS	61	25	22	49	150	194	173	141	119	73	95	13	1,113
DELIVERED TO STORAGE <sup>1</sup>	39	38	12	14	20	39	0	47	87	101	74	11	483
DELIVERED TO MEXICO IN EXCESS OF TREATY	93	71	29	4	13	1	5	10	28	15	6	50	327
<b>YUMA MESA I.D.D., DIVERSION AT IMPERIAL DAM</b>													
ORDERED BUT NOT DIVERTED	3,641	2,014	4,948	2,186	1,613	1,709	2,644	2,484	3,693	3,958	5,533	3,224	37,647
DELIVERED TO MEXICO IN SATISFACTION OF TREATY	1,242	953	2,448	994	192	165	672	301	1,492	1,445	3,282	627	13,814
DIVERTED BY OTHERS	1,078	524	2,282	960	1,257	1,231	1,455	1,611	1,638	1,525	1,759	438	15,759
DELIVERED TO STORAGE <sup>1</sup>	280	265	67	86	145	300	457	535	401	697	378	909	4,519
DELIVERED TO MEXICO IN EXCESS OF TREATY	1,041	272	152	146	18	14	60	37	162	290	114	1,249	3,554
<b>UNIT "B" IRRIGATION DISTRICT, DIVERSION AT IMPERIAL DAM</b>													
ORDERED BUT NOT DIVERTED	231	149	693	626	350	294	434	410	587	388	683	369	5,215
DELIVERED TO MEXICO IN SATISFACTION OF TREATY	48	42	244	205	87	103	93	33	258	155	377	40	1,687
DIVERTED BY OTHERS	65	80	376	339	222	157	290	260	246	161	273	167	2,635
DELIVERED TO STORAGE <sup>1</sup>	17	14	44	29	29	34	42	111	66	55	22	42	505
DELIVERED TO MEXICO IN EXCESS OF TREATY	101	12	29	54	11	0	10	6	17	16	11	120	387
<b>YUMA COUNTY WATER USERS' ASSOCIATION, DIVERSION AT IMPERIAL DAM</b>													
ORDERED BUT NOT DIVERTED	4,786	10,301	2,900	2,424	2,789	2,824	4,185	6,997	5,506	7,097	10,877	8,015	68,701
DELIVERED TO MEXICO IN SATISFACTION OF TREATY	1,119	3,619	1,817	479	796	477	561	422	1,796	1,782	4,735	1,461	19,064
DIVERTED BY OTHERS	1,560	2,875	787	1,407	1,332	1,777	2,816	5,014	2,930	3,616	3,860	2,243	30,217
DELIVERED TO STORAGE <sup>1</sup>	932	1,247	63	217	478	560	712	1,515	557	1,138	1,821	2,793	12,033
DELIVERED TO MEXICO IN EXCESS OF TREATY	1,174	2,559	233	322	183	10	96	47	222	560	461	1,518	7,386
<b>ARIZONA TOTALS</b>													
ORDERED BUT NOT DIVERTED	21,894	23,612	21,282	32,539	13,381	8,185	14,172	15,412	20,463	18,144	29,408	23,941	242,435
DELIVERED TO MEXICO IN SATISFACTION OF TREATY	5,494	7,987	7,610	14,924	2,367	990	3,960	1,222	6,142	4,869	14,096	4,487	74,147
DIVERTED BY OTHERS	4,786	4,675	6,207	12,622	7,459	4,905	7,382	9,404	7,858	8,465	9,377	6,249	89,389
DELIVERED TO STORAGE <sup>1</sup>	7,633	6,594	6,504	3,429	3,107	2,263	2,614	4,538	5,801	3,611	4,986	8,567	59,646
DELIVERED TO MEXICO IN EXCESS OF TREATY	3,982	4,356	960	1,565	449	27	216	248	662	1,199	950	4,638	19,252

<sup>1</sup> Delivered to temporary storage in Senator Wash Reservoir.

RELEASE OF MAINSTREAM WATER PURSUANT TO ORDERS  
BUT NOT DIVERTED BY PARTY ORDERING SAME AND  
QUANTITY OF SUCH WATER DELIVERED TO MEXICO IN SATISFACTION OF MEXICAN TREATY OR DIVERTED BY OTHERS  
CALENDAR YEAR 2011  
STATE OF CALIFORNIA

WATER USER	5/15/12	(Values in acre-feet)												TOTAL
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
METROPOLITAN WATER DISTRICT, DIVERSION AT LAKE HAVASU														
ORDERED BUT NOT DIVERTED	2,445	610	6,007	525	6,037	3,861	2,305	2,588	800	-23	108	320	25,583	
DELIVERED TO MEXICO IN SATISFACTION OF TREATY														
DIVERTED BY OTHERS														
DELIVERED TO STORAGE <sup>1</sup>	2,445	610	6,007	525	6,037	3,861	2,305	2,588	800	-23	108	320	25,583	
DELIVERED TO MEXICO IN EXCESS OF TREATY	0	0	0	0	0	0	0	0	0	0	0	0	0	
PALO VERDE IRRIGATION DISTRICT, DIVERSION AT PALO VERDE DAM														
ORDERED BUT NOT DIVERTED	413	490	609	99	258	1,557	1,662	665	714	1,113	1,079	674	9,333	
DELIVERED TO MEXICO IN SATISFACTION OF TREATY	42	92	252	0	34	281	738	11	190	484	289	192	2,605	
DIVERTED BY OTHERS														
DELIVERED TO STORAGE <sup>1</sup>	325	277	271	55	7	713	672	454	322	490	517	126	4,229	
DELIVERED TO MEXICO IN EXCESS OF TREATY	37	40	65	0	215	564	247	198	188	75	150	205	1,983	
DELIVERED TO MEXICO IN EXCESS OF TREATY	9	81	21	44	1	0	5	2	13	64	123	151	515	
YUMA PROJECT RESERVATION DIVISION, DIVERSION AT IMPERIAL DAM														
ORDERED BUT NOT DIVERTED	2,407	3,949	1,629	1,693	2,025	2,169	897	1,288	2,093	2,143	3,443	4,530	28,265	
DELIVERED TO MEXICO IN SATISFACTION OF TREATY	442	1,466	828	396	771	320	183	228	510	628	1,498	910	8,180	
DIVERTED BY OTHERS														
DELIVERED TO STORAGE <sup>1</sup>	1,153	1,213	550	961	908	1,395	534	837	946	996	1,082	1,489	12,064	
DELIVERED TO MEXICO IN EXCESS OF TREATY	339	435	151	39	242	448	145	199	553	319	745	1,275	4,889	
DELIVERED TO MEXICO IN EXCESS OF TREATY	474	834	100	298	104	5	34	25	84	199	119	856	3,132	
IMPERIAL IRRIGATION DISTRICT, DIVERSION AT IMPERIAL DAM														
ORDERED BUT NOT DIVERTED	8,415	45,223	38,702	19,090	5,412	6,478	6,676	3,501	7,695	11,552	6,881	25,034	184,660	
DELIVERED TO MEXICO IN SATISFACTION OF TREATY	2,787	24,456	20,442	4,863	1,982	258	3,166	507	3,016	5,252	2,640	5,554	74,924	
DIVERTED BY OTHERS														
DELIVERED TO STORAGE <sup>1</sup>	2,070	4,747	11,451	6,443	1,527	3,939	2,436	2,000	1,181	2,846	1,292	3,748	43,680	
DELIVERED TO MEXICO IN EXCESS OF TREATY	1,825	5,996	4,134	2,578	1,577	2,281	946	883	3,365	2,120	2,367	12,126	40,198	
DELIVERED TO MEXICO IN EXCESS OF TREATY	1,733	10,024	2,674	5,207	327	0	129	110	133	1,334	582	3,606	25,858	
COACHELLA VALLEY WATER DISTRICT, DIVERSION AT IMPERIAL DAM														
ORDERED BUT NOT DIVERTED	4,717	3,829	792	1,717	5,412	2,691	5,066	1,364	5,640	4,079	4,279	3,582	43,168	
DELIVERED TO MEXICO IN SATISFACTION OF TREATY	1,111	1,699	345	499	1,139	277	1,099	199	1,549	1,242	2,060	783	12,002	
DIVERTED BY OTHERS														
DELIVERED TO STORAGE <sup>1</sup>	1,300	764	296	812	3,551	2,070	3,128	888	2,013	1,843	1,397	1,397	19,458	
DELIVERED TO MEXICO IN EXCESS OF TREATY	782	590	52	105	520	327	742	246	1,777	845	709	1,060	7,756	
DELIVERED TO MEXICO IN EXCESS OF TREATY	1,524	777	99	302	201	17	96	31	301	150	113	342	3,952	
CALIFORNIA TOTALS														
ORDERED BUT NOT DIVERTED	18,397	54,100	47,739	23,124	19,144	16,756	16,605	9,405	16,942	18,864	15,790	34,141	291,009	
DELIVERED TO MEXICO IN SATISFACTION OF TREATY	4,382	27,713	21,867	5,757	3,926	1,137	5,187	945	5,266	7,606	6,487	7,439	97,712	
DIVERTED BY OTHERS														
DELIVERED TO STORAGE <sup>1</sup>	4,848	7,000	12,568	8,270	5,993	8,117	6,770	4,178	4,462	6,175	4,288	6,760	79,430	
DELIVERED TO MEXICO IN EXCESS OF TREATY	5,428	7,671	10,410	3,247	8,591	7,480	4,385	4,113	6,683	3,336	4,079	14,987	80,410	
DELIVERED TO MEXICO IN EXCESS OF TREATY	3,739	11,716	2,894	5,850	634	23	264	168	531	1,746	936	4,956	33,457	

<sup>1</sup> Delivered to temporary storage in Senator Wash Reservoir.

**RECORDS OF DELIVERIES TO MEXICO OF WATER  
IN SATISFACTION OF THE TREATY OF FEBRUARY 3, 1944 AND WATER  
PASSING TO MEXICO IN EXCESS OF TREATY REQUIREMENTS IN ACCORDANCE WITH  
ARTICLE V (D) OF THE CONSOLIDATED DECREE OF THE UNITED STATES  
SUPREME COURT IN *ARIZONA V. CALIFORNIA*, 547 U.S. 150 (2006)**

5/15/12

CALENDAR YEAR 2011

(Values in acre-feet)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
COLORADO RIVER AT NORTHERLY INTERNATIONAL BOUNDARY <sup>1</sup>	130,382	162,561	186,453	188,723	98,785	105,404	115,715	86,317	78,997	49,102	80,580	95,044	1,378,063
TO MEXICO TO SATISFY TREATY REQUIREMENTS													
DELIVERY AT THE LIMITROPHE <sup>2</sup>	577	435	462	385	349	285	455	474	491	1,041	1,199	1,000	7,153
DELIVERY AT TIJUANA <sup>3</sup>	0	0	0	0	0	0	0	0	0	0	0	0	0
DELIVERY AT SOUTHERLY INTERNATIONAL BOUNDARY	9,838	10,240	11,982	11,972	11,756	10,450	10,625	9,755	11,125	11,935	11,028	10,121	130,827
WATER ARRANGED FOR THE CIENEGA - MEXICO PORTION <sup>4</sup>	0	0	0	2,580	3,304	3,939	368	0	0	0	0	0	10,191
WATER ARRANGED FOR THE CIENEGA - NON-GOVERNMENTAL PORTION <sup>4</sup>	0	127	0	0	1,019	231	0	0	0	0	0	0	1,377
DIVERSION CHANNEL DISCHARGED TO RIVER <sup>5</sup>	0	0	0	0	0	0	6	0	1	0	0	0	7
DELIVERY TO MEXICO AT NORTHERLY INTERNATIONAL BOUNDARY <sup>6</sup>	117,698	145,119	182,982	177,127	94,313	104,661	114,488	84,541	77,690	42,395	77,895	81,200	1,300,109
TOTAL DELIVERIES TO MEXICO IN SATISFACTION OF TREATY REQUIREMENTS	128,113	155,921	195,426	192,064	110,741	119,566	125,942	94,770	89,307	55,371	90,122	92,321	1,449,664
MEXICO'S DOWNWARD DELIVERY ADJUSTMENT <sup>7</sup>	0	0	0	0	0	0	0	0	0	8,107	19,149	23,080	50,336
TOTAL TO MEXICO IN SATISFACTION OF TREATY REQUIREMENTS	128,113	155,921	195,426	192,064	110,741	119,566	125,942	94,770	89,307	63,478	109,271	115,401	1,500,000
TO MEXICO IN EXCESS OF TREATY <sup>8</sup>	12,684	17,442	3,471	11,596	4,472	743	1,227	1,776	1,307	6,707	2,685	13,844	77,954
ACCOUNTABLE DELIVERIES TO MEXICO <sup>9</sup>	140,797	173,363	198,897	203,660	115,213	120,309	127,169	96,546	90,614	62,078	92,807	106,165	1,527,618
WATER ARRANGED FOR THE CIENEGA - U.S. PORTION <sup>10</sup>	0	0	0	0	0	0	0	0	0	0	0	0	0
WATER BYPASSED PURSUANT TO MINUTE 242 OF THE IBWC	5,905	5,790	6,960	11,516	13,637	13,283	10,048	9,774	12,621	13,157	12,710	15,222	130,623
MEXICO'S DOWNWARD DELIVERY ADJUSTMENT - EVAPORATION LOSS <sup>11</sup>												1,510	1,510
VOLUME OF MEXICO'S DOWNWARD DELIVERY ADJUSTMENT AVAILABLE FOR DELIVERY TO MEXICO BEGINNING IN 2014 <sup>12</sup>													48,826

**Footnotes:**

<sup>1</sup> Flow in the river at the Northerly International Boundary as reported by IBWC as delivery to Mexico, which includes flows to Mexico in Excess of Treaty.

<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> Temporary emergency delivery of Colorado River water for Tijuana is diverted at Lake Havasu by MWD and delivered via the Colorado River Aqueduct, MWD, SDCWA, and Otay Water District's distribution systems pursuant to Minutes No. 310 and 314 of the IBWC.

<sup>4</sup> In accordance with the Joint Report of the Principal Engineers Concerning U.S. - Mexico Joint Cooperative Actions Related to the Yuma Desalting Plant Pilot Run. This water is included as a portion of Mexico's scheduled water order in accordance with Treaty requirements.

<sup>5</sup> The Diversion channel delivers water from the SIB confluence structure to the river or to the Bypass. During the months of February through September water is discharged to the Colorado River and is charged to the Treaty.

<sup>6</sup> That portion of the flows at NIB necessary to meet the 1.5 MAF Treaty obligation. This figure does not include Excess flows to Mexico.

<sup>7</sup> Mexico's reduced diversions pursuant to Minute No. 318.

<sup>8</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>9</sup> Mexico's total water delivery, includes Treaty requirements in accordance with its scheduled diversions, does not include water bypassed pursuant to Minute No. 242 of the IBWC or downward delivery amounts.

<sup>10</sup> In accordance with the Joint Report of the Principal Engineers Concerning U.S. - Mexico Joint Cooperative Actions Related to the Yuma Desalting Plant Pilot Run. This water is included in the Water Bypassed Pursuant to Minute No. 242 and is not part of Mexico's schedule. The 3,988 acre-feet of arranged water conveyed in 2010, when combined with the 6,297 acre-feet conveyed in 2009, fully satisfied the U.S. obligation for arranged water.

<sup>11</sup> In accordance with Minute No. 318, beginning in 2011, a 3 percent annual evaporation loss is applied on December 31 of any year in which the volumes referred to in Mexico's downward delivery adjustment or any portion thereof that have not yet been delivered to Mexico.

<sup>12</sup> Volume of Mexico's downward delivery adjustment at the end of the accounting year, subject to future evaporation losses.

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

05/15/12		CALENDAR YEAR 2011												(Values in acre-feet)
WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
GILA RIVER	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
SAN FRANCISCO RIVER	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

**INFORMATION SUPPLEMENTAL TO THE REQUIREMENTS  
OF THE CONSOLIDATED DECREE OF THE UNITED STATES  
SUPREME COURT IN *ARIZONA V. CALIFORNIA*, 547 U.S. 150 (2006)**

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). The information, tabulated here, provides a more extensive record of activities relating to federal management of the Colorado River. In concise reports specific to various agreements or requirements, this information is intended to help the reader correlate the records of diversions and consumptive use found in the Article V portion of this report with the various conservation, transfer and exchange agreements. The final section contains documents significant to the actions taken by Reclamation, the Lower Division States, and the water user agencies during 2011.

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

Reclamation developed and implemented a rule that establishes the procedural framework for carrying out an interstate water banking program. The rule is codified in 43 CFR, Part 414. Authorized parties may enter into agreements whereby Colorado River water may be stored off-stream in one state for future benefit of consuming entities in another state.

Reclamation, on behalf of the Secretary of the Interior (Secretary), executed a Storage and Interstate Release Agreement (SIRA) with the Southern Nevada Water Authority (SNWA), the Colorado River Commission of Nevada (CRCN), and the Arizona Water Banking Authority (AWBA). The SIRA provides structure and guidance, in accordance with Article II(B)(6) of the Consolidated Decree in *Arizona v. California*, 547 U.S.150 (2006) (Consolidated Decree), 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.

In 2002, AWBA, SNWA, and CRCN executed an Interstate Water Banking Agreement, amended April 1, 2009, that specifies 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.

Another element of this interstate water banking program is an Agreement for Development of Intentionally Created Unused Apportionment (ICUA) between AWBA and the Central Arizona Water Conservation District (CAWCD). CAWCD has obligated itself to accept water recovered by pumping groundwater, represented by LTSC's. CAWCD reduces its diversion of Colorado River water through the Central Arizona LCWSP by an equivalent amount, reducing Arizona's Colorado River water consumption. This forbearance creates ICUA that is released by the Secretary for use by SNWA.

Reclamation accounts for Colorado River water diverted for storage in Arizona by AWBA, through CAWCD, as a consumptive use in Arizona in

the year Colorado River water is diverted. LTSC's are created for the account of consuming entities in Nevada. When LTSC's are recovered, pursuant to the SIRA the consuming entities in Nevada will divert Colorado River water in exchange for CAWCD's use of the LTSC's. The Secretary will release ICUA created by AWBA via CAWCD's forbearance to the consuming entity in Nevada in that same year pursuant to Article II (B) (6) of the Consolidated Decree. ICUA used in Nevada is accounted for as consumptive use of Colorado River water that year and is in addition to the basic apportionment of the state where the use occurs.

In 2004, CRCN, SNWA, the Metropolitan Water District of Southern California (MWD), and the United States entered into a SIRA under which MWD agreed to store Nevada unused basic apportionment pursuant to Article II (B) (6) of the Consolidated Decree. When SNWA calls for this stored 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.

CAWCD stored Colorado River water underground in Arizona under a demonstration Lower Colorado River Water Supply Project in the early 1990s. CAWCD developed Interstate Underground Storage (IUS) credits. CAWCD assigned IUS credits to SNWA and MWD under the 1992 agreement, as amended between MWD and CAWCD. IUS credits assigned to SNWA were incorporated into the subsequent AWBA, SNWA, CRCN Interstate Water Banking Agreement. MWD consumed its remaining IUS credits in calendar year 2010.

The following tabulation lists 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.

INTERSTATE BANKING  
 COLORADO RIVER WATER STORED IN ONE STATE UNDER 43 CFR PART 414  
 FOR THE BENEFIT OF SPECIFIC ENTITIES IN ANOTHER STATE  
 CALENDAR YEAR 2011

5/15/12

(Values in acre-feet)

		2010 EOY Balance	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
NEVADA	Verified 2010 EOY ALTSC <sup>1</sup>	600,651													
Water diverted and stored in AZ for the benefit of SNWA.	Accrued LTSC in 2011 <sup>2</sup>		0	0	0	0	0	0	0	0	0	0	0	0	0
	Verified LTSC in 2011 <sup>3</sup>		0	0	0	0	0	0	0	0	0	0	0	0	0
	ICUA Developed in 2011 <sup>4</sup>		0	0	0	0	0	0	0	0	0	0	0	0	0
	Total ALTSC <sup>5</sup>		600,651	600,651	600,651	600,651	600,651	600,651	600,651	600,651	600,651	600,651	600,651	600,651	600,651
Water diverted and stored by MWD for the benefit of SNWA.	Verified 2010 EOY ALTSC <sup>1,6</sup>	70,000													
	Accrued LTSC in 2011 <sup>6</sup>		0	0	0	0	0	0	0	0	0	0	0	0	0
	Verified LTSC in 2011		0	0	0	0	0	0	0	0	0	0	0	0	0
	ICUA Developed in 2011 <sup>4,6</sup>		0	0	0	0	0	0	0	0	0	0	0	0	0
	Total ALTSC <sup>5</sup>		70,000	70,000	70,000	70,000	70,000	70,000	70,000	70,000	70,000	70,000	70,000	70,000	70,000
AMOUNT OF WATER STORED FOR THE BENEFIT OF SNWA - CURRENT YEAR			0	0	0	0	0	0	0	0	0	0	0	0	0
CUMULATIVE BALANCE OF WATER STORED FOR SNWA WITHIN AZ AND CA <sup>7</sup>			670,651	670,651	670,651	670,651	670,651	670,651	670,651	670,651	670,651	670,651	670,651	670,651	670,651
STATES TOTAL	Verified 2010 EOY ALTSC <sup>1</sup>	670,651													
Water stored in AZ and CA for the benefit of SNWA.	Accrued LTSC in 2011 <sup>2</sup>		0	0	0	0	0	0	0	0	0	0	0	0	0
	Verified LTSC in 2011 <sup>3</sup>		0	0	0	0	0	0	0	0	0	0	0	0	0
	ICUA Developed in 2011 <sup>4</sup>		0	0	0	0	0	0	0	0	0	0	0	0	0
	Total ALTSC <sup>5</sup>		670,651	670,651	670,651	670,651	670,651	670,651	670,651	670,651	670,651	670,651	670,651	670,651	670,651

**Footnotes:**

<sup>1</sup> ALTSC's verified by the banking entity before the beginning of the reporting year and available for recovery by a specific entity with a valid SIRA. Requested ICUA cannot exceed verified ALTSC. The LTSC's for 2010 have been adjusted upward as verified by the AWBA in a letter dated August 3, 2011. As a result, the EOY balance for 2010 is increased by 759 acre-feet from 599,892 acre-feet to 600,651 acre-feet.

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

<sup>3</sup> AWBA did not store any Colorado River water in Arizona for SNWA in 2011. Displayed values are provisional upon verification by AWBA and represent water that may be available for recovery for SNWA.

<sup>4</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 ALTSC are certified by AWBA or MWD when ICUA is requested, and prior to its release by the Secretary. 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 SNWA's requested release. SNWA will be allowed to utilize the unused apportionment in an amount equal to the ICUA made available. Total recovery of ALTSC from AWBA cannot exceed 100,000 af annually, due to a limitation defined under Arizona state law.

<sup>5</sup> ALTSC's are cumulative monthly sum of verified, or estimated LTSC.

<sup>6</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, California 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 California.

<sup>7</sup> This cumulative balance includes the BOY ALTSC balance as verified by AWBA and MWD and the verified LTSC placed into storage during the reporting year.



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

For various reasons, a user may inadvertently divert or consumptively use Colorado River water in an amount that exceeds the amount lawfully available to the user (inadvertent overrun). Requirements are now established for the repayment of such overruns.

The Colorado River Water Delivery Agreement (CRWDA), authorizing the Inadvertent Overrun and Payback Policy (IOPP), was signed October 10, 2003, by the Secretary of the Interior. The IOPP became effective January 1, 2004, and it applies to inadvertent overruns of Colorado River water within the Lower Division States occurring after that date. The policy is set forth in 69 *Federal Register* 12,201 (2004). The policy defines inadvertent overruns, establishes procedures to account for the inadvertent overruns, and sets forth the requirements for payback to the Colorado River system.

The following tabulation displays items associated with inadvertent overruns and paybacks. This includes the identification of entitlement holders who have inadvertently overrun since January 1, 2011, or a previous year, the amount of the overrun repayments made to the Colorado River system, and the remaining overrun balance in each user's inadvertent overrun account.

OVERRUNS, PAYBACKS, AND OVERRUN ACCOUNT BALANCE <sup>1</sup>  
STATE OF ARIZONA  
CALENDAR YEAR 2011

5/15/12

(Values in acre-feet)

PARTICIPATING ENTITY	ACTION	SPECIFICS	TOTAL	APPROVAL	ENTITLEMENT
<b>IOPP Overruns by Individual Water Users</b>					
CENTRAL ARIZONA WATER CONSERVATION DISTRICT	IOPP Overruns by Water User	Calendar Year Use <sup>2</sup>	1,625,043	1,632,276	1,632,276
		Calendar Year Overrun <sup>3</sup>	0		
		BOY Overrun Account Balance <sup>4</sup>	11,659		
		Validated Calendar Year Paybacks <sup>5</sup>	11,659		
		EOY Overrun Account Balance <sup>6</sup>	0		
		Account Balance as Percent of Entitlement	0.0%		
COCOPAHI INDIAN RESERVATION	IOPP Overruns by Water User	Calendar Year Diversions <sup>2,7</sup>	12,123	10,221	11,518
		Calendar Year Overrun <sup>3</sup>	1,902		
		BOY Overrun Account Balance <sup>4</sup>	0		
		Validated Calendar Year Paybacks <sup>5</sup>	0		
		AZ unused apportionment applied to overrun <sup>8</sup>	1,297		
		EOY Overrun Account Balance <sup>6</sup>	605		
Account Balance as Percent of Entitlement	5.3%				
BEATTIE FARMS	IOPP Overruns by Water User	Calendar Year Diversion <sup>2</sup>	1,563	1,110	1,110
		Calendar Year Overrun <sup>3</sup>	453		
		BOY Overrun Account Balance <sup>4</sup>	0		
		Validated Calendar Year Paybacks <sup>5</sup>	0		
		EOY Overrun Account Balance <sup>6</sup>	453		
		Account Balance as Percent of Entitlement	40.8%		

**Footnotes:**

<sup>1</sup> This section contains tabulations of water use overruns of approved diversions or approved consumptive use amounts in accordance with the Inadvertent Overrun and Payback Policy (IOPP).

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

<sup>3</sup> The amount of overrun accrued during the reporting year.

<sup>4</sup> The IOPP overrun account balance from the previous year, providing the user had a carry over balance.

<sup>5</sup> Paybacks to the Colorado River system made during the reporting year.

<sup>6</sup> The remainder of the IOPP overrun account balance as of the end of the reporting year.

<sup>7</sup> The Cocopah Indian Reservation overrun amount is based upon the Cocopah Tribe's (Tribe) combined approvals for its Trust and Fee lands. The approval amount is 9,550 acre-feet for diversion to Trust lands and 671 acre-feet for diversion to Fee lands. The Tribe's diversion entitlement is 10,847 acre-feet for use on Trust lands and 671 acre-feet for use on Fee lands. The Tribe's entitlement for use on Fee lands is an estimated amount which is currently under review by the Tribe's attorneys.

<sup>8</sup> In 2011, Arizona unused apportionment was applied to the Cocopah Indian Reservation overrun in accordance with Section 3.2 of the Lower Colorado Region Policy for Apportioned but Unused Water. This policy has been included on the CD enclosed with this Colorado River Accounting and Water Use Report for 2011.

OVERRUNS, PAYBACKS, OVERRUN ACCOUNT BALANCE <sup>1</sup>  
STATE OF CALIFORNIA  
CALENDAR YEAR 2011

5/15/12

(Values in acre-feet)

PARTICIPATING ENTITY	ACTION	SPECIFICS	TOTAL	APPROVAL	ENTITLEMENT
<b>IOPP Overruns by Individual Water Users</b>					
IMPERIAL IRRIGATION DISTRICT	IOPP Overruns by Water User	Calendar Year Consumptive Use <sup>2</sup>	2,915,784	2,822,594	3,100,000
		Calendar Year Overrun - Consumptive Use <sup>3,8</sup>	93,190		
		BOY Overrun Account Balance <sup>4</sup>	0		
		Validated Calendar Year Paybacks <sup>5</sup>	0		
		Current Year Conservation Applied to Overrun <sup>6</sup>	(10,528)		
		EOY Overrun Account Balance <sup>7</sup>	82,662		
		Account Balance as Percent of Entitlement	2.7%		
FORT MOJAVE INDIAN RESERVATION	IOPP Overruns by Water User	Calendar Year Diversion <sup>2</sup>	14,826	14,671	16,720
		Calendar Year Overrun - Diversion <sup>3</sup>	155		
		Calendar Year Overrun - Consumptive Use	83		
		BOY Overrun Account Balance - Diversion <sup>4</sup>	2,049		
		Validated Calendar Year Paybacks - Diversion <sup>5</sup>	2,049		
		Validated Calendar Year Paybacks - Consumptive Use	1,102		
		EOY Overrun Account Balance - Diversion <sup>7</sup>	155		
		EOY Overrun Account Balance - Consumptive Use <sup>7</sup>	83		
Account Balance as Percent of Entitlement	0.9%				

**Footnotes:**

<sup>1</sup> This section contains tabulations of water use overruns of approved diversions or approved consumptive use amounts in accordance with the Inadvertent Overrun and Payback Policy (IOPP).

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

<sup>3</sup> The amount of overrun accrued during the reporting year.

<sup>4</sup> The IOPP overrun account balance from the previous year, providing the user had a carry over balance.

<sup>5</sup> Paybacks to the Colorado River system made during the reporting year.

<sup>6</sup> In 2011, IID conserved 26,528 acre-feet through its Main Canal Seepage Interception System projects; of this amount 16,000 acre-feet of conservation was transferred to CVWD as referenced in the CRWDA, Exhibit B, Column 8; the remaining 10,528 acre-feet of conserved water was approved by Reclamation for use by IID to create ICS in accordance with IID's 2011 ICS Plan of Creation however, this conservation was applied to IID's 2011 overrun.

<sup>7</sup> The remainder of the IOPP overrun account balance as of the end of the reporting year.

<sup>8</sup> The CRWDA, Exhibit B, provides for an 80,000 af transfer from IID to SDCWA in 2011. IID informed Reclamation that: in 2011, IID entered into following contracts for 80,000 af, to be conserved partly in 2011 and partly in 2012, to support the transfer of 80,000 af from IID to SDCWA in 2011; in 2011 IID conserved 63,278 acre-feet under the following contracts to support the IID-SDCWA transfer; in 2012 IID will conserve an additional 16,722 acre-feet of water under the 2011/2012 following contracts to support the full 80,000 af IID-SDCWA transfer obligation for 2011. The appropriate accounting for the 2011 IID-SDCWA transfer is under review by Reclamation and will be reflected in a future Colorado River Accounting and Water Use Report.

OVERRUNS, PAYBACKS, AND OVERRUN ACCOUNT BALANCE <sup>1</sup>  
 STATE OF NEVADA  
 CALENDAR YEAR 2011

5/15/12

(Values in acre-feet)

PARTICIPATING ENTITY	ACTION	SPECIFICS	TOTAL	APPROVAL	ENTITLEMENT
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**IOPP Overruns by Individual Water Users**

**Footnotes:**  
<sup>1</sup> This section contains tabulations of water use overruns of approved diversions or approved consumptive use amounts in accordance with the Inadvertent Overrun and Payback Policy (IOPP).

**SUMMARY OF WATER AVAILABILITY AND USE  
BY  
ARIZONA, CALIFORNIA, AND NEVADA**

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 of the United States Supreme Court in *Arizona v. California*, 547 U.S. 150 (2006). Under Article II, the Secretary apportions water to the states under shortage, normal, or surplus conditions, and may release water to a state 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 are the interstate storage and release agreements, and the Inadvertent Overrun and Payback Policy (IOPP).

The following tabulation displays the amount of Colorado River water made available to each Lower Division state under Article II of the Decree, the payback obligations by users within the state in accordance with IOPP, 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 in 2011.

APPORTIONMENTS, ARTICLE II(B)(6) RELEASES, PAYBACKS, AND TOTAL CONSUMPTIVE USE BY STATE <sup>1</sup>  
CALENDAR YEAR 2011

5/15/12		(Values in acre-feet)
STATE	ADJUSTMENTS	ACTUAL USE
ARIZONA	Basic Apportionment <sup>2</sup>	2,800,000
	NV II(B)(6) Released to AZ for Storage for NV <sup>3</sup>	0
	Payback Obligations <sup>4</sup>	(11,659)
	Total Available Colorado River Water <sup>5</sup>	2,788,341
	Total Consumptive Use <sup>6</sup>	2,781,108
	State Underrun or (Overrun) <sup>7</sup>	7,233
	AZ unused apportionment applied to AZ overrun <sup>8</sup>	1,297
CALIFORNIA	Basic Apportionment <sup>2</sup>	4,400,000
	NV II(B)(6) Released to CA for Storage for NV <sup>3</sup>	0
	Creation of Intentionally Created Surplus (MWD)	(185,704)
	Payback Obligations <sup>4</sup>	(1,102)
	Total Available Colorado River Water <sup>5</sup>	4,213,194
	Total Consumptive Use <sup>6</sup>	4,312,661
	State Underrun or (Overrun) <sup>7</sup>	(99,467)
	Overruns within California	82,745
	Underconservation for IID/SDCWA Transfer <sup>9</sup>	16,722
Net State Underrun or (Overrun)	0	
NEVADA	Basic Apportionment <sup>2</sup>	300,000
	NV II(B)(6) Available for Storage <sup>3</sup>	0
	Total Available Colorado River Water <sup>5</sup>	300,000
	Total Consumptive Use <sup>6</sup>	222,847
	State Underrun or (Overrun) <sup>7</sup>	77,153

**Footnotes:**

<sup>1</sup> This section tabulates increases or reductions to the amount of water available to a state. It also calculates an adjusted state limitation and compares that amount to the consumptive uses within the state. Adjustments include any: releases to or from another state under Article II(B)(6) of the Consolidated Decree in Arizona v. California, payback obligations of individual water users, and ICS.

<sup>2</sup> The state basic apportionment as described in Article II(B)(1) of the Consolidated Decree.

<sup>3</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 or California under the appropriate SIRA.

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

<sup>5</sup> The total amount of Colorado River water available for use by the state in 2011.

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

<sup>7</sup> The difference between the Colorado River water available to the state and the state's actual consumptive use.

<sup>8</sup> In 2011, Arizona unused apportionment was applied to the Cocopah Indian Reservation overrun in accordance with Section 3.2 of the Lower Colorado Region Policy for Apportioned but Unused Water. This policy has been included on the CD enclosed with this Colorado River Accounting and Water Use Report for 2011.

<sup>9</sup> The CRWDA, Exhibit B, provides for an 80,000 af transfer from IID to SDCWA in 2011. IID informed Reclamation that: in 2011, IID entered into following contracts for 80,000 af, to be conserved partly in 2011 and partly in 2012, to support the transfer of 80,000 af from IID to SDCWA in 2011; in 2011 IID conserved 63,278 acre-feet under the following contracts to support the IID-SDCWA transfer; in 2012 IID will conserve an additional 16,722 acre-feet of water under the 2011/2012 following contracts to support the full 80,000 af IID-SDCWA transfer obligation for 2011. The appropriate accounting for the 2011 IID-SDCWA transfer is under review by Reclamation and will be reflected in a future Colorado River Accounting and Water Use Report.

## LOWER COLORADO WATER SUPPLY PROJECT

The Lower Colorado Water Supply Act (Act), enacted by Congress and approved by the President on November 14, 1986, authorized the Lower Colorado Water Supply Project (LCWSP) as part of a water supply exchange program. Water pumped from the LCWSP well field is exchanged for Colorado River water. This program is intended to help meet the domestic, municipal, industrial, and recreational water needs of water users adjacent to the Colorado River in California. The LCWSP well field will assist those water users whose use of water from the Colorado River is either not covered by a contract or is in excess of their contractual allocation. Although some California water users have access to surplus water, the use of the LCWSP wells is required when surplus water is unavailable or insufficient to meet the needs of the LCWSP beneficiaries in 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. Currently, Stage I of the LCWSP has been completed and consists of two wells. The well field began operation on August 1, 2003. The wells are located south of the All-American Canal (AAC) in Imperial County. Ground water from the wells is withdrawn and discharged into the AAC and used by the Imperial Irrigation District (IID). IID will then forebear the use of an equal amount of water from the Colorado River. Through a contract with Reclamation, IID is responsible for the operation and maintenance of the well field.

Reclamation entered into a contract to supply LCWSP water to the City of Needles (City) in annual amounts up to 3,500 acre-feet of the initial 5,000 acre-feet available. The contract with the City establishes a framework for the City to enter into

subcontracts 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 the Colorado River. In December 2004, a Reclamation determination reserved an additional 350 acre-feet of Stage I capacity in the LCWSP for use by Reclamation in California at Federal facilities 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 of the Interior 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 City and the Metropolitan Water District of Southern California (MWD), allowing Stage 1 of the LCWSP to be pumped at capacity, without jeopardizing the LCWSP, allowing MWD to receive as much unused water as available. Certain monies received from MWD are being deposited in a Water Quality Maintenance Trust Fund to provide for the long-term viability of the LCWSP or its replacement.

LOWER COLORADO WATER SUPPLY PROJECT  
SUMMARY OF USES OFFSET BY PUMPAGE FROM THE LOWER COLORADO WATER SUPPLY PROJECT WELLFIELD  
CALENDAR YEAR 2011

5/15/12

(Values in acre-feet)

		<b>TOTAL</b>
<b>LCWSP WELLFIELD PUMPAGE</b> <sup>1</sup>		4,460
<b>NON-FEDERAL LCWSP CONTRACTORS</b> <sup>2</sup>		
City of Needles	Consumptive Use	164
<b>Needles's Subcontractors</b>		
Havasu Water Company of California	Consumptive Use	36
Vista del Lago Resort	Consumptive Use	7
Pacific Gas & Electric Company	Consumptive Use	4
Southern California Gas Company	Consumptive Use	68
Needles Other Subcontractors	Consumptive Use	178
<b>TOTAL NON-FEDERAL USE</b> <sup>2</sup>	<b>Total Consumptive Use</b>	<b>457</b>
<b>FEDERAL LCWSP CONTRACTORS</b>		
BLM	Consumptive Use	312
RECLAMATION - Parker Dam and Government Camp	Consumptive Use	80
<b>TOTAL FEDERAL USE</b> <sup>3</sup>	<b>Total Consumptive Use</b>	<b>392</b>
<b>LCWSP WATER AVAILABLE TO MWD</b> <sup>4</sup>		3,611

**Footnotes:**

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

<sup>2</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>3</sup> Total LCWSP Federal contractor consumptive use. Colorado River water used was exchanged for LCWSP water.

<sup>4</sup> This is the total amount of water pumped from the wellfield minus wellfield pumpage for each of the other LCWSP participants.



## **CONSERVATION, TRANSFER, AND EXCHANGE AGREEMENTS FOR THE STATES OF ARIZONA, CALIFORNIA, AND NEVADA**

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.

The Lower Colorado Water Supply Project (LCWSP) implements a 1986 statute which authorizes the exchange of non-Colorado River water for Colorado River water within the State of California. Water accounting information relating to the LCWSP appears in the previous section of this report.

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 a series of supplemental agreements, including the Quantification Settlement Agreement, that collectively implement many provisions of the CRWDA through water transfers, water exchanges, and water conservation measures. Data relating to these California events are depicted here. There were no transfers or exchanges of Colorado River water reported within Arizona or Nevada during calendar year 2011.

### **Description of Included Tables**

The table titled “Comparison of Net California Agricultural Use” demonstrates the impact of conservation and transfers on agricultural water use in California in 2011. The table titled “Transfers, Exchanges and Water Made Available by Extraordinary Conservation” tabulates agreements in California existing outside of the CRWDA or in amounts that differ from the amounts tabulated in Exhibit B of the CRWDA. The table titled Exhibit B is reproduced from the CRWDA for convenient reference.

COMPARISON OF NET CALIFORNIA AGRICULTURAL USE <sup>1</sup>  
CALENDAR YEAR 2011

5/15/12

**Uses by California Agricultural Entities**

	<b>Consumptive Uses in Acre-Feet</b>
Palo Verde Irrigation District	320,088
Yuma Project Reservation Division	49,029
Yuma Island Pumpers <sup>2</sup>	3,845
Priorities 1, 2, 3b	372,962
CVWD	309,348
IID <sup>3</sup>	2,915,784
<b>Total California Agricultural Use</b>	<b>3,598,094</b>
MWD Adjustments for Priority 1, 2, and 3b use <sup>4</sup>	0
MWD-CVWD Exchange	0
IID and CVWD reductions for PPRs	14,500
<b>Use by California Agriculture+MWD Adjustment+ Agricultural paybacks+IID/CVWD covered PPRs</b>	<b>3,612,594</b>
 <b>Annual Agricultural Benchmark or Target Comparison</b>	
2011 Agricultural Target <sup>5</sup>	3,490,000
Use by California Agriculture+MWD Adjustment+ Agricultural paybacks+IID/CVWD covered PPRs	3,612,594
<b>Total Target Overrun or (Underrun)</b>	<b>122,594</b>

Priority 1, 2, and 3b use below/above 420,000 af

Palo Verde Irrigation District	320,088
Yuma Project Reservation Division	49,029
Yuma Island Pumpers <sup>2</sup>	3,845
Total Priority 1, 2, 3b Use	372,962
MWD reduction for Priority 1, 2, and 3b water use <sup>6</sup>	0
Priority 1, 2, and 3b water delivered to MWD <sup>7</sup>	47,038

**Footnotes:**

<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 (attached) 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 all 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> IID's use includes the overruns shown on page 30 of this report.

<sup>4</sup> MWD's reductions for priorities 1, 2, and 3b count toward meeting the ISG annual target.

<sup>5</sup> See Exhibit B of the CRWDA.

<sup>6</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>7</sup> Per Section 4.d of the CRWDA, the sum of Priority 1, 2, and 3b use that's less than 420,000 af is delivered to MWD.

TRANSFERS, EXCHANGES AND WATER MADE AVAILABLE BY EXTRAORDINARY CONSERVATION  
 STATE OF ARIZONA  
 CALENDAR YEAR 2011

5/15/12

(Values in acre-feet)

PROGRAM OR PARTICIPATING AGENCIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
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No transfers were reported to Reclamation during this calendar year

**Footnotes:**  
 No footnotes for this calendar year.

TRANSFERS, EXCHANGES AND WATER MADE AVAILABLE BY EXTRAORDINARY CONSERVATION  
STATE OF CALIFORNIA  
CALENDAR YEAR 2011

5/15/12

(Values in acre-feet)

PROGRAM OR PARTICIPATING AGENCIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
IID CONSERVATION - 1988 IID/MWD CONSERVATION AGREEMENT <sup>1</sup>													103,940
IID CONSERVATION - MWD REDUCTION FOR CVWD USE <sup>2</sup>													4,000
IID CONSERVATION - TRANSFER TO SDCWA <sup>3</sup>													63,278
IID CONSERVATION - SDCWA MITIGATION TRANSFER <sup>4</sup>													0
IID CONSERVATION - IID INTRA-PRIORITY 3 TRANSFER TO CVWD <sup>5</sup>													16,000
MWD/PVID FORBEARANCE AND FOLLOWING PROGRAM <sup>6</sup>													122,216
ALL-AMERICAN CANAL LINING PROJECT - SDCWA EXCHANGE WITH MWD <sup>7</sup>													56,200
ALL -AMERICAN CANAL LINING PROJECT - SUPPLEMENTAL - TO MWD <sup>7</sup>													11,500
ALL-AMERICAN CANAL LINING PROJECT - TOTAL CONSERVATION <sup>7</sup>													67,700
COACHELLA CANAL LINING PROJECT - SDCWA EXCHANGE WITH MWD <sup>8</sup>													23,765
COACHELLA CANAL LINING PROJECT - SUPPLEMENTAL - TO MWD <sup>8</sup>													4,500
COACHELLA CANAL LINING PROJECT - MITIGATION <sup>8</sup>													2,585
COACHELLA CANAL LINING PROJECT - TOTAL CONSERVATION <sup>8</sup>													30,850

**Note:** The remaining transfers and water exchanges tabulated in exhibits of the CRWDA may be found in the Exhibit B table presented at the end of this section of this report. Reclamation recognizes the CRWDA allows each party to make water available or to divert water made available based upon their own schedule.

**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 2011, the amount of water conserved by Project 18 was 2,440 acre-feet as documented in the January 10, 2012, letter from the Chairman of the Program Coordinating Committee to IID, included on the CD enclosed with this Colorado River Accounting and Water Use Report for 2011. This resulted in a total conservation yield of 103,940 acre-feet.

<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 as a result of the IID/MWD Water Conservation Program. MWD is required to reduce up to 20,000 af of water for use by CVWD.

<sup>3</sup> As referenced in Column 5, Exhibit B, of the CRWDA, IID conserves water for transfer to SDCWA. The CRWDA, Exhibit B, provides for an 80,000 af transfer from IID to SDCWA in 2011. IID informed Reclamation that: in 2011, IID entered into following contracts for 80,000 af, to be conserved partly in 2011 and partly in 2012, to support the transfer of 80,000 af from IID to SDCWA in 2011; in 2011 IID conserved 63,278 acre-feet under the following contracts to support the IID-SDCWA transfer; in 2012 IID will conserve an additional 16,722 acre-feet of water under the 2011/2012 following contracts to support the full 80,000 af IID-SDCWA transfer obligation for 2011. The appropriate accounting for the 2011 IID-SDCWA transfer is under review by Reclamation and will be reflected in a future Colorado River Accounting and Water Use Report.

<sup>4</sup> IID conserved 33,736 acre-feet of Colorado River water in 2010 which was transferred to SDCWA and exchanged with CVWD for non-Colorado River water to meet Salton Sea mitigation requirements for 2010. Also, in 2010, IID delivered 46,546 acre-feet 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. The appropriate accounting for the 46,546 acre-feet is under review by Reclamation and is the subject of Reclamation letters dated October 14, 2010, December 15, 2010, June 29, 2011, and October 11, 2011, which have been included on the CD enclosed with this Colorado River Accounting and Water Use Report for 2011. The final accounting for the 46,546 acre-feet will be reflected in a future Colorado River Accounting and Water Use Report.

<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> PVID's annual reduction in consumptive use of Colorado River water through land following. This value is recorded in Table 8 of a jointly produced report compiled by Reclamation, PVID, and MWD entitled "Calendar Year 2011 Followed Land Verification Report." This value represents the estimated reduction in PVID's consumptive use as a result of following 25,947 acres from January through August, 25,235 acres in September, 25,221 acres in October and November, and 24,671 acres in December.

<sup>7</sup> The amount shown, represents water conserved through the construction of a new concrete lined canal parallel to a portion of the unlined All-American Canal. The Secretarial Determination of water conserved by lining certain reaches of the project 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.

<sup>8</sup> The amount shown, represents water conserved through the construction of a new concrete lined canal parallel to a portion of the unlined Coachella Canal. The Secretarial Determination of water conserved by the project 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, and Exhibit B to the Settlement Agreement between CVWD and SDCWA, dated October 30, 2007.

TRANSFERS, EXCHANGES AND WATER MADE AVAILABLE BY EXTRAORDINARY CONSERVATION  
 STATE OF NEVADA  
 CALENDAR YEAR 2011

5/15/12

(Values in acre-feet)

PROGRAM OR PARTICIPATING AGENCIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
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No transfers were reported to Reclamation during this calendar year

**Footnotes:**  
 No footnotes for this calendar year.

WATER MADE AVAILABLE BY CONSERVATION  
BUREAU OF RECLAMATION  
CALENDAR YEAR 2011

	5/15/12	(Values in acre-feet)											
TRANSFER PROGRAM OR PARTICIPATING AGENCIES	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 CONSERVATION <sup>2</sup>	0	9,328	11,403	15,400	9,739	0	14,569	11,693	17,665	10,955	11,318	10,679	122,749
YUMA DESALTING PLANT PILOT RUN <sup>3</sup>	4,022	2,293	3,243	0	0	0	0	0	0	0	0	0	9,558

**Footnotes:**

<sup>1</sup> In 2007, Reclamation was granted a permit to withdraw Arizona ground water for return 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 captured in the Warren H. Brock Reservoir that would have otherwise been delivered to Mexico in excess of treaty requirements. The difference between the value shown here and the amount shown on page 14 "Delivery From Warren H. Brock Reservoir" consists of changes in reservoir storage and losses from the reservoir.

<sup>3</sup> Conservation as result of the operation of the Yuma Desalting Plant in accordance with Minute 316 and the Joint Report between the U.S. and Mexico.



## INTENTIONALLY CREATED SURPLUS

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

Prior to the signing of the Interim Guidelines, Reclamation had in 2006, 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 ICS. "ICS Water" in this program referred to a quantity of surplus water that the Secretary may make available for release under Article II(B)(2) of the Consolidated Decree of the Supreme Court of the United States in *Arizona v. California*, 547 U.S. 150 (2006) (Consolidated Decree) as ICS. The demonstration program covered the creation of ICS Water during calendar years 2006 and 2007, and required the creation of ICS Water through extraordinary conservation. Beginning in 2008, the creation and use of ICS is governed by the Interim Guidelines.

Under the Interim Guidelines four types of ICS may be created by an approved contractor: Extraordinary Conservation ICS, Tributary Conservation ICS, System

Efficiency ICS, and Imported ICS. Also stipulated in the Interim Guidelines are the limits as to how much ICS of each type may be created each year and in total, as well as how much ICS may be delivered by the Secretary each year. The following conditions apply to ICS:

- 1) During the year of creation, and with the exception of System Efficiency ICS, five percent of the ICS created will be dedicated to system storage to provide a collective storage benefit for Colorado River users,
- 2) An annual evaporation loss of three percent will be applied to remaining ICS beginning the year after its creation,
- 3) Under flood control releases ICS will be the first released, and
- 4) In accordance with Section 3.C.7 of the Interim Guidelines for the Coordinated Operations of Lake Powell and Lake Mead, 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.

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.

The Interim Guidelines can be found in the Significant Documents section of the report.



INTENTIONALLY CREATED SURPLUS BALANCES  
BY STATE, USER, AND TYPE OF ICS  
CALENDAR YEAR 2011

5/15/12

(Values in acre-feet)

State	User	ICS Type	2010 EOY Balance	Creation <sup>1</sup>	System Benefit <sup>2</sup>	IOPP Payback <sup>3</sup>	Delivery	Evaporation Loss <sup>4</sup>	2011 EOY Balance <sup>5</sup>
ARIZONA	CAWCD	System Efficiency - Warren H. Brock <sup>6</sup>	100,000	0	N/A	0	0	N/A	100,000
	CAWCD	System Efficiency - YDP Pilot Run <sup>8</sup>	2,094	956	N/A	0	0	N/A	3,050
CALIFORNIA	MWD	Extraordinary Conservation <sup>7</sup>	173,217	185,704	9,285	0	0	5,197	344,439
	MWD	System Efficiency - Warren H. Brock <sup>6</sup>	66,000	0	N/A	0	0	N/A	66,000
	MWD	System Efficiency - YDP Pilot Run <sup>8</sup>	16,750	7,647	N/A	0	0	N/A	24,397
	IID	Extraordinary Conservation	6,023	0	0	0	0	181	5,842
	SNWA	Extraordinary Conservation converted from Tributary Conservation / Imported <sup>9</sup>	48,993	0	0	0	0	1,470	47,523
NEVADA	SNWA	Tributary Conservation	0	29,889	1,494	0	0	0	28,395
	SNWA	Imported	0	3,899	195	0	0	0	3,704
	SNWA	System Efficiency - Warren H. Brock <sup>6</sup>	400,000	0	N/A	0	0	N/A	400,000
	SNWA	System Efficiency - YDP Pilot Run <sup>8</sup>	2,094	956	N/A	0	0	N/A	3,050
	<b>Total ICS stored in Lake Mead: EOY 2011</b>								

**Footnotes:**

- <sup>1</sup> The amount of ICS water created by the contractor 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 Colorado River Interim Guidelines for Lower Basin Shortages and the Coordinated Operation for Lake Powell and Lake Mead (Interim Guidelines), there shall be a one-time deduction of five percent (5%) 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 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> The evaporation loss factor is 3.0 percent, per the Interim Guidelines.
- <sup>5</sup> The EOY balance of ICS water including creation and reductions taking place in the reporting year.
- <sup>6</sup> The Warren H. Brock Reservoir became operational in 2010. Per the funding agreement of December 13, 2007, CAWCD and MWD were credited with 100,000 acre-feet each of System Efficiency ICS, and SNWA was credited with 400,000 acre-feet in 2010.
- <sup>7</sup> In 2011, MWD was approved to create up to 200,000 acre-feet of Extraordinary Conservation ICS under an approved ICS plan. The CRWDA, Exhibit B, provides for an 80,000 af transfer from IID to SDCWA in 2011. IID informed Reclamation that: in 2011, IID entered into following contracts for 80,000 af, to be conserved partly in 2011 and partly in 2012, to support the transfer of 80,000 af from IID to SDCWA in 2011; in 2011 IID conserved 63,278 acre-feet under the following contracts to support the IID-SDCWA transfer; in 2012 IID will conserve an additional 16,722 acre-feet of water under the 2011/2012 following contracts to support the full 80,000 af IID-SDCWA transfer obligation for 2011. The appropriate accounting for the 2011 IID-SDCWA transfer is under review by Reclamation and will be reflected in a future Colorado River Accounting and Water Use Report.
- <sup>8</sup> CAWCD, MWD, and SNWA have developed System Efficiency (SE) credits through funding the operation of the YDP for a period of up to 18 months. ICS credit will be applied to each of the ICS accounts in proportion to each entity's funding percentage upon the production of water by the YDP. In 2011, total SE ICS credits for YDP are 9,558 acre-feet.
- <sup>9</sup> The 2010 certification report provided by SNWA revised the 2010 Imported ICS creation from 841 af to 659 af and the amount of Tributary Conservation ICS creation from 30,070 af to 30,073 af. After reduction for system benefit the amount of Imported ICS stored in Lake Mead in 2010 was 626 af and the amount of Tributary Conservation ICS stored in Lake Mead in 2010 was 28,569 af. In accordance with Section 3.A.2 of the Interim Guidelines, these amounts were converted to Extraordinary Conservation ICS at the beginning of 2011 and in accordance with Section 3.B.7 assessed an evaporative loss.

## DOCUMENTS AND LETTERS SIGNIFICANT TO THE DELIVERY OF AND ACCOUNTING FOR THE USE OF COLORADO RIVER WATER IN CY 2011

These documents afford the reader an opportunity to read the agreements, letters, regulations and operating plans that impacted Reclamation's delivery of Colorado River water during calendar year 2011.

The compact disc (CD) located in the pocket on the back cover of this report contains the documents significant to the delivery of Colorado River water in 2011. These documents are in a searchable Acrobat® (PDF) format. The list below provides a brief description of each significant document's contents and the file name under which that document may be found on the CD. The file names are printed exactly as they appear on the CD. The acronyms used below are defined in the Acronyms and Abbreviated Terms on page one of this report. Anyone desiring additional water accounting information is encouraged to log on to the following website, where all previous water accounting reports can be viewed and PDF files may be downloaded at: [www.usbr.gov/lc/region/g4000/wtracct.html](http://www.usbr.gov/lc/region/g4000/wtracct.html).

	<b>RECORD OF DECISION</b>	<b>CD FILE NAME</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.	2007 ROD Interim Guidelines-Shortages-Coordinated Operations
	<b>REPORTS</b>	<b>CD FILE NAME</b>
2.	2011 Annual Operating Plan Executive Summary that outlines the criteria under which the Colorado River will be operated during CY 2011 considering current and anticipated hydrologic conditions.	2011 Annual Operating Plan Executive Summary
	<b>INTERIM DETERMINATIONS</b>	<b>CD FILE NAME</b>
3.	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 December 4, 2009.	CCLP Lining Interim Determination
4.	The Secretary's Interim Determination for the amount of water conserved and the amount of water made available for allocation as a result the All-American Canal Lining Project, dated January 31, 2008.	AAC Lining Interim Determination
	<b>POLICIES</b>	<b>CD FILE NAME</b>
5.	Lower Colorado Region Policy for Apportioned but Unused Water, dated February 11, 2010	Unused Water Policy

**DOCUMENTS AND LETTERS SIGNIFICANT TO THE DELIVERY OF  
AND ACCOUNTING FOR THE USE OF COLORADO RIVER WATER IN CY 2011**

<b>INTENTIONALLY CREATED SURPLUS</b>		<b>CD FILE NAME</b>
6.	MWD's Extraordinary Conservation ICS certification report for calendar year 2010.	MWD 2010 ECICS Certification Report
7.	Reclamation's letter dated March 29, 2012, verifying MWD's ICS creation for calendar year 2010.	Reclamation-MWD 2010 ECICS Verification
8.	MWD's Extraordinary Conservation ICS plan of creation for calendar year 2011.	MWD 2011 ECICS plan of creation
9.	Reclamation's letter dated December 14, 2010, approving MWD's ECICS plan of creation for calendar 2011.	Reclamation-MWD 2011 ECICS approval
10.	IID's Extraordinary Conservation ICS plan of creation for calendar year 2011.	IID 2011 ECICS plan of creation
11.	Reclamation's letter dated December 14, 2010, approving IID's ECICS plan of creation for calendar 2011.	Reclamation-IID 2011 ECICS approval
12.	SNWA's Tributary Conservation and Imported ICS plan of creation for calendar year 2011.	SNWA 2011 Tributary Conservation-Imported ICS plan of creation
13.	Reclamation's letter dated December 14, 2010, approving SNWA's 2011 plan of creation for Tributary Conservation and Imported ICS.	Reclamation-SNWA 2011 ICS approval
14.	Report of System Efficiency ICS created in 2011 through a pilot-run of the Yuma Desalting Plant funded by and for the benefit of MWD, SNWA, and CAWCD.	Reclamation YDP 2011 pilot-run report

<b>INTERSTATE WATER BANKING</b>		<b>CD FILE NAME</b>
15.	AWBA's letter dated August 3, 2011, verifying SNWA's final 2010 interstate water banking account.	AWBA final 2010 accounting letter-executed
16.	MWD's letter dated February 21, 2012, verifying SNWA's final 2010 interstate water banking account.	MWD final 2011 accounting letter-executed
17.	AWBA's letter dated December 15, 2010, indicating they would not be storing water for SNWA in 2011.	AWBA no projected banking in 2011

**DOCUMENTS AND LETTERS SIGNIFICANT TO THE DELIVERY OF  
AND ACCOUNTING FOR THE USE OF COLORADO RIVER WATER IN CY 2011**

<b>INADVERTENT OVERRUN AND PAYBACK POLICY</b>		<b>CD FILE NAME</b>
18.	Reclamation's letter dated October 20, 2011, establishing the Fort Mojave Indian Tribe's 2011 IOPP payback obligation.	USBR-FMIT 2011 Payback Obligation
19.	The Fort Mojave Indian Tribe's revised 2011 IOPP payback plan, dated November 23, 2011.	FMIT revised 2011 Payback Plan
20.	Reclamation's letter dated December 28, 2011, approving the Fort Mojave Indian Tribe's revised 2011 IOPP payback plan.	USBR Approval letter of 2011 FMIT Payback Plan
21.	The Fort Mojave Indian Tribe's certification report for IOPP paybacks made in 2011, dated February 6, 2012.	FMIT 2011 IOPP certification
22.	Reclamation's letter dated May 2, 2012, verifying the Fort Mojave Indian Tribe's 2011 IOPP payback amount of 2,049 acre-feet.	2011 FMIT IOPP Verification Letter
23.	The Central Arizona Project's 2011 IOPP payback plan for overruns incurred in 2009, dated September 10, 2010.	CAP 2011 IOPP payback plan
24.	Reclamation's letter dated May 17, 2011, approving the Central Arizona Water Conservation District's 2011 IOPP payback plan.	Reclamation-CAP 2011 IOPP payback plan approval
25.	AWBA's letter dated March 8, 2012, confirming the reduction of 2011 AWBA supplies to payback an IOPP overrun incurred by CAP in calendar year 2009.	AWBA reduction for CAP IOPP payback plan
26.	The Central Arizona Water Conservation District's certification report for IOPP paybacks made in 2011, dated March 8, 2012.	CAP-Reclamation IOPP certification
27.	Reclamation's letter dated May 2, 2012, verifying the Central Arizona Water Conservation District's 2011 IOPP payback amount of 11,659 acre-feet.	2011 CAWCD IOPP Verification Letter

**DOCUMENTS AND LETTERS SIGNIFICANT TO THE DELIVERY OF  
AND ACCOUNTING FOR THE USE OF COLORADO RIVER WATER IN CY 2011**

<b>COLORADO RIVER WATER DELIVERY AGREEMENT</b>		<b>CD FILE NAME</b>
28.	Reclamation's letter to IID dated October 14, 2010, expressing the Secretary's position and concerns with the delivery of Colorado River water directly to the Salton Sea and the proper accounting for this delivery.	Reclamation-IID 2010 Salton Sea accounting
29.	Reclamation's letter to the CRWDA parties dated December 15, 2010, detailing how the direct delivery of Colorado River water to the Salton Sea will be dealt with in a footnote in the 2010 Colorado River water accounting report.	Reclamation-CRWDA parties 2010 water accounting report footnote
30.	Reclamation's letter to the CRWDA parties dated June 29, 2011, concerning the direct delivery of Colorado River water to the Salton Sea and suspending a final decision for 2010 accounting while issues are resolved.	Reclamation-CRWDA parties 2010 water accounting decision
31.	Reclamation's letter to the CRWDA parties dated October 11, 2011, addressing IID's proposed elimination of mitigation water to the Salton Sea for 2014-2017 while expressing Reclamation's commitment to administer and implement the binding provisions of the CRWDA.	Reclamation-CRWDA parties IID mitigation water proposal
32.	CAWCD, MWD, and SNWA's joint letter to Reclamation dated October 13, 2011, expressing their desire that any unused Colorado River water for calendar year 2011 be left in Lake Mead to meet the demands for future years.	Joint letter concerning unused water disposition for 2011
33.	A letter from the Chairman of the Program Coordinating Committee to IID dated January 10, 2012, verifying the amount of water conserved by Project 18 was 2,440 acre-feet.	PCC-IID Project 18 verification for 2011
34.	CVWD's letter dated November 29, 2011, projecting the estimated amount of 2011 environmental mitigation water for the Coachella Canal Lining Project, and the remaining water available for transfer to the SDCWA.	CVWD-Reclamation 2011 CCLP Mitigation Water
35.	Reclamation's letter to CVWD dated December 28, 2011, acknowledging CVWD's estimate of the amount of water used in 2011 for environmental mitigation for the Coachella Canal Lining Project, and the amount of water available to SDCWA.	Reclamation-CVWD 2011 CCLP Mitigation Water

<b>WATER ACCOUNTING</b>		<b>CD FILE NAME</b>
36.	A description on how irrigation water is accounted for by the USGS for areas where estimates of diversion are required.	USGS Diversion Estimate Methodology
37.	Maps showing the locations of the wells and river pumps reported by the USGS, and presented in the supplemental tabulations for Arizona and California	USGS Pump-well location maps