

# RECLAMATION

*Managing Water in the West*



**Accounting  
for  
Colorado River Water Use  
within the States  
of  
Arizona, California, and Nevada**

*Calendar Year 2003*



# **Colorado River Accounting and Water Use Report Arizona, California, and Nevada Calendar Year 2003**

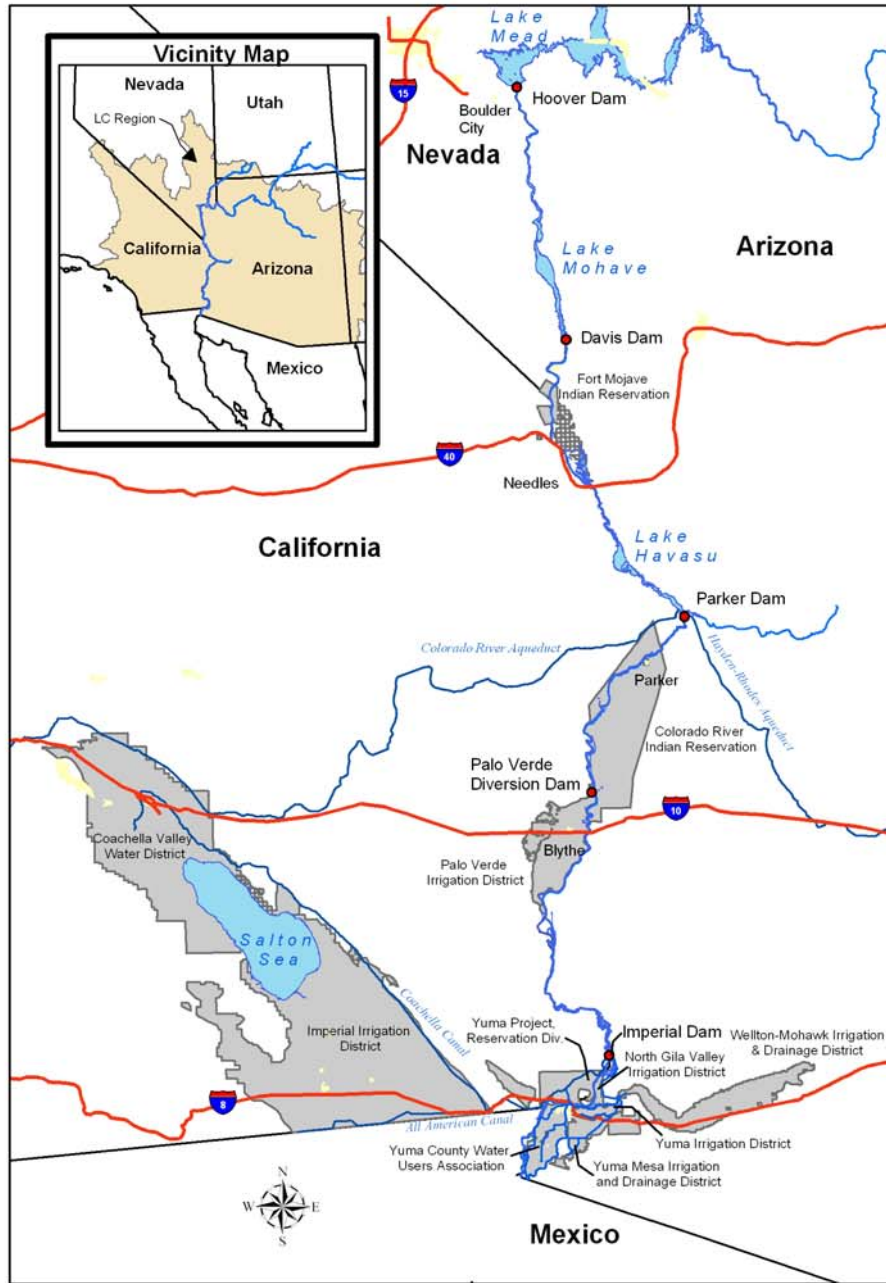


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**Approximate Area Covered  
by  
The Lower Colorado River  
Accounting Report**

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# Acronyms and Abbreviated Terms

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

AAC	All-American Canal	FYIR	Fort Yuma Indian Reservation
af	acre-feet, unit of water measurement	GGMC	Gila Gravity Main Canal
adp	Arizona diesel pump	ICUA	intentionally created unused apportionment
adw	Arizona diesel well	ID	irrigation district
aep	Arizona electric pump	IDD	irrigation and drainage district
aew	Arizona electric well	IBWC	International Boundary and Water Commission
ALTSC	accumulated long term storage credit	IID	Imperial Irrigation District
AOP	Annual Operating Plan	IOP	Inadvertent Overrun and Payback Policy
APS	Arizona Public Service	IUS	Interstate Underground Storage credits
ASLD	Arizona State Land Department	kaf	Kilo (thousand) acre-feet
AWBA	Arizona Water Banking Authority	LCWSP	Lower Colorado Water Supply Project
BLM	Bureau of Land Management	LHFO	Lake Havasu Field Office (BLM)
BOR	Bureau of Reclamation	LLC	Limited Liability Company
BOY	beginning of year	LTSC	Long Term Storage Credit
CAWCD	Central Arizona Water Conservation District	MWD	Metropolitan Water District of Southern California
cdp	California diesel pump	MOD	Main Outlet Drain
cdw	California diesel well	MODE	Main Outlet Drain Extension
cdew	California diesel electric well	MEAS.	Measured (as in Measured Returns)
cep	California electric pump	M&I	municipal and industrial
cew	California electric well	PG & E	Pacific Gas and Electric Company
CFR	Code of Federal Regulations	PVID	Palo Verde Irrigation District
CRBC	Colorado River Board of California	PWR	Power
CRCN	Colorado River Commission of Nevada	QSA	Quantification Settlement Agreement
CRIT	Colorado River Indian Tribes	SCE	Southern California Edison Company
CU	consumptive use	SIRA	Storage and Interstate Release Agreement
CVWD	Coachella Valley Water District	SNWA	Southern Nevada Water Authority
CY	calendar year	USBR	United States Bureau of Reclamation
Diff.	difference	USGS	United States Geological Survey
Dist.	district	UNMEAS.	unmeasured (as in unmeasured returns)
DPOC	drainage pump outlet channel	YAO	Yuma Area Office (USBR)
ET	evapotranspiration	YFO	Yuma Field Office (BLM)
EOY	end of year		

**S U M M A R Y**  
**CONSUMPTIVE USE BY STATE, RESERVOIR CONTENTS, LCWSP AND SIRA**  
**CALENDAR YEAR 2003**

		(ACRE-FEET)													
		6/15/2005													
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL 0/	
<b>LOWER DIVISION STATES WATER USE SUMMARY</b>															
ARIZONA		216,938	195,797	282,488	312,166	319,683	285,427	228,575	163,063	162,915	231,586	220,560	211,401	2,830,599	
CALIFORNIA		246,971	153,644	416,174	504,884	478,069	434,218	473,590	433,069	388,474	366,376	258,372	254,905	4,408,746	
NEVADA		14,745	13,220	15,250	23,240	26,352	33,862	36,908	33,332	28,105	33,374	20,963	19,039	298,392	
TOTAL CONSUMPTIVE USE, LOWER DIVISION STATES		478,655	362,661	713,912	840,290	824,104	753,506	739,073	629,464	579,494	631,337	499,896	485,345	7,537,737	
MEXICO IN SATISFACTION OF TREATY		130,285	154,940	199,770	193,325	108,570	111,372	121,513	99,884	90,358	71,655	98,904	119,424	1,500,000	
WATER BYPASSED PURSUANT TO MINUTE NO. 242 OF THE IBWC		10,542	8,917	10,090	8,319	8,611	9,305	9,664	9,748	10,195	10,266	10,038	9,039	114,734	
EXCESS DELIVERIES TO MEXICO		4,196	26,551	7,240	11,389	3,788	118	664	992	2,478	1,169	1,784	1,486	61,855	
DELIVERIES TO MEXICO & CU BY LOWER DIVISION STA 1/		623,678	553,069	931,012	1,053,323	945,073	874,301	870,914	740,088	682,525	714,427	610,622	615,294	9,214,326	
LCWSP PUMPING	2/														
	NON-FEDERAL	31	39	53	58	70	85	93	90	70	59	42	41	732	
	FEDERAL	23	27	38	41	50	60	66	63	50	42	30	29	517	
	TOTAL	54	66	91	98	120	146	159	153	120	101	71	70	1,249	
WATER STORED IN AZ FOR THE BENEFIT OF NV & CA	3/														
	NEVADA	111,100	0	0	0	0	0	0	0	0	0	0	0	111,100	
	CALIFORNIA	89,000	0	0	0	0	0	0	0	0	0	0	0	89,000	
RESERVOIR CONTENTS (Thousand Acre-Feet)		DEC 2002	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	CHANGE
LOWER BASIN TOTAL STORAGE	4/	18,944	19,096	19,279	19,053	18,565	18,204	18,020	17,937	18,076	17,823	17,550	17,423	17,407	-1,538
LOWER BASIN STORAGE PLUS LAKE POWELL	5/	32,718	32,365	32,112	31,497	30,808	30,960	31,385	30,731	30,232	29,933	29,485	29,219	28,894	-3,825

Note to Reader: each section of this report and each division within a section, has its own sequence of footnotes

0/ Totals may differ from the sum of the monthly values due to rounding to the nearest acre-foot

1/ Sum of Total Consumptive Use in the Lower Basin, Deliveries to Mexico in Satisfaction of Treaty, Bypass Pursuant to IBWC Minute No. 242 and Excess Deliveries to Mexico

2/ Pumpage of Lower Colorado Water Supply Project wellfield to offset certain Colorado River water use in California.

3/ Final verified total of Accumulated Long-Term Storage Credits reported by Arizona Water Banking Authority (AWBA). This is the balance available at beginning of year

4/ Sum of End of Month storage in Lakes Mead, Mohave and Havasu (lower basin).

5/ Sum of End of Month storage in Lakes Powell (upper basin), Mead, Mohave and Havasu (lower basin)

**RESERVOIR CONTENTS**  
**MONTHLY STORAGE CONTENTS OF LAKE POWELL AND THE COLORADO RIVER SYSTEM IN THE LOWER BASIN**  
**CALENDAR YEAR 2003**

		06/15/05												(THOUSAND ACRE-FEET)	CY CHANGE
		DEC 2002	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV		
-----0/ 1/ -----															
END OF MONTH ACTIVE CONTENTS:															
LAKE POWELL		13,774	13,269	12,833	12,444	12,243	12,756	13,365	12,794	12,156	12,110	11,935	11,796	11,487	-2,287
PERCENTAGE OF POWELL ACTIVE STORAGE	2/	56.6%	54.6%	52.8%	51.2%	50.3%	52.4%	55.0%	52.6%	50.0%	49.8%	49.1%	48.5%	47.2%	
LAKE MEAD		16,718	16,854	16,978	16,826	16,287	15,893	15,733	15,598	15,741	15,618	15,517	15,337	15,300	-1,418
LAKE MOHAVE		1,679	1,705	1,729	1,686	1,686	1,715	1,696	1,743	1,739	1,643	1,468	1,527	1,590	-89
LAKE HAVASU		547	537	573	541	592	596	591	596	596	562	565	560	516	-31
STORAGE IN LOWER BASIN	3/	18,944	19,096	19,280	19,053	18,565	18,204	18,020	17,937	18,076	17,823	17,550	17,423	17,406	-1,538
PERCENTAGE OF COLO. RIVER ACTIVE STORAGE IN THE LOWER BASIN	4/	66.9%	67.5%	68.1%	67.3%	65.6%	64.3%	63.7%	63.4%	63.9%	63.0%	62.0%	61.6%	61.5%	
LAKE POWELL AND LOWER BASIN STORAGE	5/	32,718	32,365	32,113	31,497	30,808	30,960	31,385	30,731	30,232	29,933	29,485	29,219	28,893	-3,825
PERCENTAGE OF ACTIVE STORAGE	6/	62.2%	61.5%	61.0%	59.8%	58.5%	58.8%	59.6%	58.4%	57.4%	56.9%	56.0%	55.5%	54.9%	
TOTAL SYSTEM STORAGE	7/	36,796	36,419	36,136	35,561	34,886	35,177	35,858	35,074	34,431	34,072	33,543	33,261	32,912	-3,884
PERCENTAGE OF TOTAL SYSTEM STORAGE	8/	62.0%	61.3%	60.9%	59.9%	58.7%	59.2%	60.4%	59.1%	58.0%	57.4%	56.5%	56.0%	55.4%	

Footnotes:

0/ Values may differ from the difference due rounding to the nearest thousand acre feet.

1/ Calendar Year (CY) change is the difference in end of month storage between December of the previous year and December of the reporting year.

A positive value represents an increase in water in storage, and negative value indicates a decrease in water in storage.

2/ Percentage of total active storage capacity available in Lake Powell.

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

4/ The percentage of total active storage capacity available in the Lower Basin (Lakes Mead, Mohave and Havasu).

5/ The sum of end-of-month storage in Lakes Powell (upper basin), Mead, Mohave and Havasu (lower basin).

6/ The percentage of total active storage capacity available in Lakes Powell (upper basin), Mead, Mohave and Havasu (lower basin).

7/ Total end-of-month system storage, includes USBR reservoirs in Upper and Lower basins of the Colorado River.

8/ The percentage of total end-of-month system storage, this includes Lakes Powell (upper basin), Mead, Mohave and Havasu (lower basin).

For purposes of this tabulation, the term "active storage" is equivalent to live storage, and refers to the volume of water that can be delivered downstream via gravity flow.

**COMPILATION OF RECORDS IN ACCORDANCE WITH ARTICLE V  
OF THE DECREE OF THE SUPREME COURT OF THE UNITED STATES  
IN ARIZONA v. CALIFORNIA ET AL. DATED MARCH 9, 1964**

**ARTICLE V OF THE DECREE**

V. 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 are 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 DECREE  
OF THE SUPREME COURT OF THE UNITED STATES  
IN ARIZONA v. CALIFORNIA ET AL. DATED MARCH 9, 1964**

The following tabulation for calendar year 2003 shows the final records of releases of water through regulatory structures controlled by the United States. At Hoover, Davis, Parker, Palo Verde, Imperial, and Laguna Dams, the records are furnished by the U.S. Geological Survey based on 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." The diversions for the Colorado River Indian Reservation are made at Headgate Rock Dam.

CALENDAR YEAR 2003

STRUCTURE	06/15/05												TOTAL
	(ACRE-FEET)												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
GLEN CANYON DAM	794,700	723,500	794,300	606,000	661,700	860,900	919,900	923,700	484,900	499,900	482,500	613,700	8,365,700
HOOVER DAM	651,400	607,800	957,400	1,138,000	1,017,000	918,000	964,600	744,200	584,600	538,300	637,100	623,300	9,381,700
DAVIS DAM	665,400	633,600	1,073,000	1,217,000	1,050,000	987,300	977,800	808,700	736,500	784,400	645,600	625,100	10,204,400
PARKER DAM	388,900	382,200	760,000	821,900	737,200	760,500	805,500	664,300	663,800	600,100	366,100	352,800	7,303,300
HEADGATE ROCK DAM 1/	365,830	361,420	714,510	756,220	662,880	687,170	725,130	595,720	608,030	559,930	344,520	325,990	6,707,350
PALO VERDE DAM	327,600	301,600	580,800	640,700	536,500	543,100	589,200	463,700	455,600	439,500	302,300	275,600	5,456,200
IMPERIAL DAM 2/	25,930	36,600	29,410	36,910	31,610	21,040	25,590	25,240	17,530	18,640	26,190	17,650	312,340
DIVERSION TO MITTRY LAKE FROM GILA MAIN CANAL	922	778	861	774	861	952	984	922	893	984	893	770	10,594
SUM IMPERIAL DAM + DIVERSION TO MITTRY LAKE	26,852	37,378	30,271	37,684	32,471	21,992	26,574	26,162	18,423	19,624	27,083	18,420	322,934
LAGUNA DAM	25,720	43,560	36,180	42,260	38,030	29,260	34,230	32,950	22,110	23,120	34,790	21,760	383,970

Footnotes:

1/ Computed as Parker Dam release less diversion at Headgate Rock Dam.

2/ Represents flow below Imperial Dam, does not include diversions through the All American Canal (AAC) and the Gila Gravity Main Canal (GGMC).

**RECORDS OF DIVERSIONS, RETURN FLOWS AND CONSUMPTIVE USE  
IN ACCORDANCE WITH ARTICLE V (B) OF THE DECREE  
OF THE SUPREME COURT OF THE UNITED STATES  
IN ARIZONA v. CALIFORNIA ET AL.  
DATED MARCH 9, 1964**

The following tabulations for calendar year 2003 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 U.S. Geological Survey, International Boundary and Water Commission, Bureau of Indian Affairs, Bureau of Reclamation (Reclamation), National Park Service, U.S. Fish and Wildlife Service, and water user agencies. Diversions from the 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 also listed for points of diversion and return when that information is available.

The second tabulation for each State, titled "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 generally determined from records of power use. Amounts diverted by pumping were determined as follows: (1) for most electric pumps, diversions were computed on an annual basis from power records and a "kilowatt-hour per acre-foot pumped factor" that was determined by discharge measurement; (2) for

pumps without flow meters or where power records are not available, a consumptive use factor of 6.25 acre-feet per irrigated acre of land per year was used.

Unmeasured returns have been computed by multiplying measured diversions by a 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 (Secretary), or (3) a Secretarial reservation of water. The diversions, return flows or consumptive uses tabulated in this report constitute the records referenced in Article V of the Decree of the Supreme Court in Arizona v. California et al. 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 any error or omission, please report it to the contact person listed on the cover page.

DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 2003  
STATE OF ARIZONA

06/15/05

(ACRE-FEET)

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL 0/
LAKE MEAD NAT'L RECREATION, AZ. DIVERSIONS FROM LAKE MEAD (TEMPLE BAR)	DIVERSION	7	7	8	12	14	20	20	19	17	13	10	7	154
	MEAS. RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
	UNMEAS. RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
	CONSUMPTIVE USE	7	7	8	12	14	20	20	19	17	13	10	7	154
LAKE MEAD NAT'L RECREATION, AZ. DIVERSIONS FROM LAKE MOHAVE (KATHERINE, WILLOW BEACH)	DIVERSION	12	11	14	16	25	27	36	35	24	19	17	9	245
	MEAS. RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
	UNMEAS. RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
	CONSUMPTIVE USE	12	11	14	16	25	27	36	35	24	19	17	9	245
LOWER COLORADO RIVER DAMS PROJECT DIVERSION AT DAVIS DAM	DIVERSION	1.96	1.83	1.32	2.83	3.16	3.53	16.23	8.81	3.52	3.84	4.02	3.86	54.91
	MEAS. RETURNS	1.91	1.80	1.31	2.81	3.13	3.50	16.17	8.77	3.50	3.83	3.97	3.83	54.53
	UNMEAS. RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
	CONSUMPTIVE USE	0.05	0.03	0.01	0.02	0.03	0.03	0.06	0.04	0.02	0.01	0.05	0.03	0.38
BULLHEAD CITY PUMPED FROM WELLS	DIVERSION	619	492	582	621	710	821	989	861	769	857	609	620	8,550
DIV. AT DAVIS DAM, MOHAVE CO. PARKS	DIVERSION	3	3	3	6	7	11	12	6	2	6	2	3	66
	MEAS. RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
	UNMEAS. RETURNS	205	163	193	207	237	275	330	286	254	285	202	205	2,842
	CONSUMPTIVE USE	417	332	392	420	480	557	671	581	517	578	409	418	5,774
MOHAVE WATER CONSERVATION DIST. PUMPED FROM WELLS	DIVERSION	58	48	38	53	63	65	70	82	70	58	51	59	716
	MEAS. RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
	UNMEAS. RETURNS	19	16	13	18	21	21	23	27	23	19	17	19	236
	CONSUMPTIVE USE	39	32	25	35	42	44	47	55	47	39	34	40	480
BROOKE WATER LLC. PUMPED FROM RIVER	DIVERSION	27	25	30	34	42	46	51	48	41	41	34	32	451
	MEAS. RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
	UNMEAS. RETURNS	9	8	10	11	14	15	17	16	14	14	11	11	150
	CONSUMPTIVE USE	18	17	20	23	28	31	34	32	27	27	23	21	301
MOHAVE VALLEY I.D.D. PUMPED FROM WELLS	DIVERSION	2,424	1,595	1,810	3,389	3,884	3,963	4,541	3,795	3,884	3,458	1,432	1,406	35,581
PUMPED FROM TOPOCK MARSH INLET	DIVERSION	47	37	64	69	84	102	111	107	84	71	50	49	875
	MEAS. RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
	UNMEAS. RETURNS	1,136	751	862	1,591	1,825	1,870	2,140	1,795	1,825	1,623	682	669	16,769
	CONSUMPTIVE USE	1,288	844	948	1,798	2,059	2,093	2,401	2,000	2,059	1,835	750	737	18,812
FORT MOJAVE INDIAN RESERVATION 14 PUMPS AND WELLS IN FLOOD PLAIN DELIVERED BY CITY OF NEEDLES	DIVERSION 1/	1,992	1,183	2,558	4,966	6,094	8,469	7,782	7,589	8,310	5,073	1,946	1,480	57,442
	DIVERSION	1	1	1	1	2	2	2	2	2	1	1	1	16
	MEAS. RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
	UNMEAS. RETURNS	916	544	1,177	2,284	2,803	3,896	3,580	3,491	3,823	2,334	895	681	26,424
	CONSUMPTIVE USE	1,077	640	1,382	2,683	3,293	4,575	4,204	4,100	4,489	2,740	1,052	800	31,034
GOLDEN SHORES WATER CONSERVATION DIST PUMPED FROM WELLS	DIVERSION 2/	29	23	40	43	53	64	70	67	53	44	31	31	547
	MEAS. RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
	UNMEAS. RETURNS	10	8	13	14	17	21	23	22	17	15	10	10	180
	CONSUMPTIVE USE	19	15	27	29	36	43	47	45	36	29	21	21	367

DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 2003  
STATE OF ARIZONA

06/15/05

(ACRE-FEET)

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL 0/
HAVASU NATIONAL WILDLIFE REFUGE TOPOCK MARSH INLET PUMPED BY 1 WELL IN FLOODPLAIN	DIVERSION 3/ DIVERSION 2/ MEAS. RETURNS UNMEAS. RETURNS CONSUMPTIVE USE	789 10 0 703 96	1,343 8 0 1,189 162	6,897 14 0 6,082 829	6,251 15 3,626 2,323 317	6,107 18 2,227 3,430 468	5,571 22 15 4,909 669	5,144 24 0 4,548 620	3,013 23 0 2,672 364	2,230 18 0 1,978 270	3,174 15 0 2,807 382	1,208 11 0 1,073 146	1,270 11 0 1,127 154	42,997 190 5,868 32,841 4,478
LAKE HAVASU I.D.D. (CITY) DISTRICT PUMPED FROM WELLS	DIVERSION MEAS. RETURNS UNMEAS. RETURNS CONSUMPTIVE USE	980 0 372 608	863 0 328 535	1,026 0 390 636	1,192 0 453 739	1,500 0 570 930	1,832 0 696 1,136	1,869 0 710 1,159	1,702 0 647 1,055	1,509 0 573 936	1,511 0 574 937	1,179 0 448 731	1,061 0 403 658	16,224 0 6,164 10,060
CENTRAL ARIZONA PROJECT PUMPED FROM LAKE HAVASU	DIVERSION MEAS. RETURNS UNMEAS. RETURNS CONSUMPTIVE USE	178,610 0 0 178,610	167,194 0 0 167,194	188,023 0 0 188,023	175,595 0 0 175,595	183,816 0 0 183,816	143,877 0 0 143,877	75,528 0 0 75,528	48,221 0 0 48,221	54,019 0 0 54,019	124,815 0 0 124,815	174,720 0 0 174,720	170,772 0 0 170,772	1,685,190 0 0 1,685,190
TOWN OF PARKER PUMPED FROM 1 MUNICIPAL WELL	DIVERSION 4/ MEAS. RETURNS UNMEAS. RETURNS CONSUMPTIVE USE	49 23 14 12	44 21 13 10	56 23 16 17	70 22 20 28	98 22 28 48	109 25 31 53	118 26 34 58	106 27 30 49	87 25 25 37	84 26 24 34	55 25 16 14	50 25 14 11	928 290 265 373
COLORADO RIVER INDIAN RESERVATION DIVERSION AT HEADGATE ROCK DAM 2 PUMPS & TOWN OF PARKER DELIVERY	DIVERSION DIVERSION 5/ MEAS. RETURNS UNMEAS. RETURNS CONSUMPTIVE USE	23,070 539 14,422 1,298 7,889	20,780 269 14,276 1,158 5,615	45,490 393 15,872 2,524 27,487	65,680 980 20,338 3,666 42,656	74,320 1,208 21,460 4,154 49,914	73,330 1,273 18,990 4,103 51,510	80,370 1,758 20,059 4,517 57,552	68,580 1,525 20,014 3,856 46,235	55,770 1,277 19,726 3,138 34,183	40,170 570 18,240 2,241 20,259	21,580 254 15,684 1,201 4,949	26,810 302 15,040 1,491 10,581	595,950 10,348 214,121 33,347 358,830
EHRENBURG IMPROVEMENT ASSN.	DIVERSION MEAS. RETURNS UNMEAS. RETURNS CONSUMPTIVE USE	34 0 10 24	35 0 10 25	37 0 11 26	41 0 12 29	49 0 14 35	55 0 16 39	55 0 16 39	55 0 16 39	51 0 15 36	49 0 14 35	38 0 11 27	33 0 9 24	532 0 154 378
CIBOLA VALLEY IRRIGATION DISTRICT PUMPED FROM 3 PUMPS	DIVERSION MEAS. RETURNS UNMEAS. RETURNS CONSUMPTIVE USE	274 0 78 196	1,506 0 429 1,077	1,141 0 325 816	1,883 0 537 1,346	1,267 0 361 906	3,732 0 1,064 2,668	4,700 0 1,340 3,360	3,416 0 974 2,442	3,060 0 872 2,188	2,395 0 683 1,712	1,616 0 461 1,155	2,079 0 593 1,486	27,069 0 7,717 19,352
CIBOLA NATIONAL WILDLIFE REFUGE PUMPED FROM 5 PUMPS	DIVERSION MEAS. RETURNS UNMEAS. RETURNS CONSUMPTIVE USE	1,157 0 440 717	661 0 251 410	1,138 0 432 706	1,133 0 431 702	1,302 0 495 807	1,100 0 418 682	956 0 363 593	946 0 359 587	1,482 0 563 919	1,814 0 689 1,125	900 0 342 558	853 0 324 529	13,442 0 5,107 8,335
IMPERIAL NATIONAL WILDLIFE REFUGE PUMPED FROM 2 WELLS	DIVERSION 2/ MEAS. RETURNS UNMEAS. RETURNS CONSUMPTIVE USE	160 0 61 99	90 0 34 56	98 0 37 61	158 0 60 98	235 0 89 146	1,511 0 574 937	297 0 113 184	184 0 70 114	281 0 107 174	111 0 42 69	65 0 25 40	152 0 58 94	3,343 0 1,270 2,073

DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 2003  
STATE OF ARIZONA

06/15/05

(ACRE-FEET)

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL 0/
YUMA PROVING GROUND														
DIVERSION AT IMPERIAL DAM	DIVERSION	0	1	1	0	0	0	0	2	0	0	0	0	4
WELLS W, X, Y, Z	DIVERSION 2/ MEAS. RETURNS	17	21	25	77	83	87	101	74	48	14	5	17	569
	UNMEAS. RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
	CONSUMPTIVE USE	17	22	26	77	83	87	101	76	48	14	5	17	573
GILA MONSTER RANCH (sturges)														
DIVERSION AT IMPERIAL DAM	DIVERSION *	722	757	1,049	938	1,026	1,274	1,566	722	877	1,126	760	532	11,349
* use on ASLD lease has been deducted.	MEAS. RETURNS	82	89	7	5	79	44	47	13	29	-24	54	27	452
	UNMEAS. RETURNS	274	288	399	356	390	484	595	274	333	428	289	202	4,312
	CONSUMPTIVE USE	366	380	643	577	557	746	924	435	515	722	417	303	6,585
WELLTON MOHAWK I. D. D.														
DIVERSION AT IMPERIAL DAM	DIVERSION	21,308	18,911	35,698	44,405	44,409	49,488	47,170	36,757	37,017	34,275	24,997	20,474	414,909
	GGMC RETURN	2,697	2,457	279	261	3,821	1,905	1,575	716	1,375	-821	1,984	1,178	17,427
	DOMS RETURN	1,230	1,190	976	628	424	277	269	332	427	902	1,137	1,571	9,363
	MOD RETURN 6/ RETURNS, TOTAL	9,960	8,650	9,980	8,540	9,030	9,330	9,910	10,490	10,260	9,710	10,000	9,520	115,380
	UNMEAS. RETURNS	13,887	12,297	11,235	9,429	13,275	11,512	11,754	11,538	12,062	9,791	13,121	12,269	142,170
	CONSUMPTIVE USE	7,421	6,614	24,463	34,976	31,134	37,976	35,416	25,219	24,955	24,484	11,876	8,205	272,739
CITY OF YUMA														
DIVERSION AT IMPERIAL DAM (AAC)	DIVERSION	2,380	1,875	2,114	2,009	2,487	3,051	3,245	2,907	2,560	2,487	2,140	2,204	29,459
DIVERSION AT IMPERIAL DAM (GILA)	DIVERSION	46	38	41	44	43	45	55	52	56	52	44	41	557
	MEAS. RETURNS	1,089	801	877	742	753	819	868	898	858	912	893	1,001	10,511
	UNMEAS. RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
	CONSUMPTIVE USE	1,337	1,112	1,278	1,311	1,777	2,277	2,432	2,061	1,758	1,627	1,291	1,244	19,505
MARINE CORPS AIR STATION (YUMA)														
DIVERSION AT IMPERIAL DAM	DIVERSION	85	77	122	165	200	217	234	210	217	172	96	76	1,871
	MEAS. RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
	UNMEAS. RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
	CONSUMPTIVE USE	85	77	122	165	200	217	234	210	217	172	96	76	1,871
SOUTHERN PACIFIC COMPANY														
DIVERSION AT IMPERIAL DAM	DIVERSION	4	4	4	4	4	4	4	4	4	4	4	4	48
	MEAS. RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
	UNMEAS. 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 ASSN.														
DIVERSION AT IMPERIAL DAM	DIVERSION	1	1	1	1	1	1	1	1	1	1	1	1	12
	MEAS. RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
	UNMEAS. 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
UNIVERSITY OF ARIZONA														
DIVERSION AT IMPERIAL DAM (WARREN ACT)	DIVERSION	29	39	39	74	53	89	78	4	79	67	32	34	617
	MEAS. RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
	UNMEAS. RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
	CONSUMPTIVE USE	29	39	39	74	53	89	78	4	79	67	32	34	617

DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 2003  
STATE OF ARIZONA

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(ACRE-FEET)

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL 0/
YUMA UNION HIGH SCHOOL DIVERSION AT IMPERIAL DAM	DIVERSION	7	10	6	6	5	8	6	6	5	6	2	1	68
	MEAS. RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
	UNMEAS. RETURNS	2	3	2	2	1	2	2	2	1	2	1	0	20
	CONSUMPTIVE USE	5	7	4	4	4	6	4	4	4	4	1	1	48
CAMILLE, ALEC. JR. DIVERSION AT IMPERIAL DAM (WARREN ACT)	DIVERSION	0	0	0	4	5	20	14	69	3	3	0	2	120
	MEAS. RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
	UNMEAS. RETURNS	0	0	0	1	1	6	4	20	1	1	0	1	35
	CONSUMPTIVE USE	0	0	0	3	4	14	10	49	2	2	0	1	85
DESERT LAWN MEMORIAL DIVERSION AT IMPERIAL DAM	DIVERSION	2	2	7	16	18	17	19	17	14	14	5	0	131
	MEAS. RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
	UNMEAS. RETURNS	1	1	2	5	5	5	6	5	4	4	2	0	40
	CONSUMPTIVE USE	1	1	5	11	13	12	13	12	10	10	3	0	91
NORTH GILA VALLEY IRRIGATION DISTRICT DIVERSION AT IMPERIAL DAM	DIVERSION 7/	2,455	2,671	3,932	4,751	5,482	5,234	4,524	1,821	3,583	4,751	3,540	2,447	45,191
	MEAS. RETURNS	2,045	1,984	2,153	2,338	2,970	2,802	2,480	1,283	2,093	2,609	2,660	1,765	27,182
	UNMEAS. RETURNS	336	366	539	651	751	717	620	249	491	651	485	335	6,191
	CONSUMPTIVE USE	74	321	1,240	1,762	1,761	1,715	1,424	289	999	1,491	395	347	11,818
YUMA IRRIGATION DISTRICT DIVERSION AT IMPERIAL DAM PUMPED FROM PRIVATE WELLS	DIVERSION 7/	4,738	4,054	6,165	7,216	8,088	6,160	5,220	3,848	4,733	5,809	4,852	3,944	64,827
	DIVERSION	118	251	312	231	232	217	207	234	213	186	146	138	2,486
	MEAS. RETURNS	1,697	1,454	1,179	1,280	2,239	1,289	1,148	789	1,143	937	1,364	1,030	15,549
	MEAS. RETURNS	145	181	247	267	326	396	431	415	326	273	194	191	3,392
	UNMEAS. RETURNS	1,034	917	1,380	1,586	1,772	1,358	1,156	870	1,054	1,277	1,065	870	14,339
	CONSUMPTIVE USE	1,980	1,753	3,671	4,315	3,983	3,334	2,692	2,008	2,423	3,507	2,375	1,991	34,034
YUMA MESA I. D. D. DIVERSION AT IMPERIAL DAM	DIVERSION 7/	11,123	7,934	11,894	16,983	19,190	22,787	27,486	21,745	20,642	19,544	10,343	9,388	199,059
	MEAS. RETURNS	7,439	7,334	6,958	7,351	7,677	6,784	8,171	6,910	6,337	3,685	5,185	4,374	78,205
	UNMEAS. RETURNS	1,780	1,269	1,903	2,717	3,070	3,646	4,398	3,479	3,303	3,127	1,655	1,502	31,849
	CONSUMPTIVE USE	1,904	-669	3,033	6,915	8,443	12,357	14,917	11,356	11,002	12,732	3,503	3,512	89,005
UNIT "B" I. D. D. DIVERSION AT IMPERIAL DAM	DIVERSION 7/	1,263	1,096	1,355	2,565	2,737	3,158	3,897	2,968	2,698	1,910	1,552	595	25,794
	MEAS. RETURNS 7/	1,196	1,242	1,220	1,294	1,280	1,152	1,399	1,196	1,071	702	886	690	13,328
	UNMEAS. RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
	CONSUMPTIVE USE	67	-146	135	1,271	1,457	2,006	2,498	1,772	1,627	1,208	666	-95	12,466
YUMA COUNTY WATER USERS ASSOCIATION DIVERSION AT IMPERIAL DAM PUMPED FROM WELLS	DIVERSION	21,420	17,743	35,745	44,208	38,008	23,648	28,450	18,069	28,344	45,419	29,815	21,356	352,225
	DIVERSION	25	41	53	31	31	38	47	45	609	109	0	108	1,137
	MEAS. RETURNS	9,611	9,255	10,005	11,024	12,298	9,503	9,420	9,000	11,063	15,581	15,567	13,013	135,340
	UNMEAS. RETURNS	450	373	752	929	799	497	598	380	608	956	626	451	7,419
	CONSUMPTIVE USE	11,384	8,156	25,041	32,286	24,942	13,686	18,479	8,734	17,282	28,991	13,622	8,000	210,603

DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 2003  
STATE OF ARIZONA

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(ACRE-FEET)

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL 0/
COCOPAHA INDIAN RESERVATION														
DIVERSION AT IMPERIAL DAM	DIVERSION	0	0	214	0	136	56	428	2,661	0	0	195	134	3,824
PUMPED FROM WELLS , NORTH COCOPAHA	DIVERSION	187	177	217	428	551	351	306	335	405	379	490	268	4,093
PUMPED FROM WELLS, WEST COCOPAHA	DIVERSION 8/	Wells in the West Cocopah Reservation are in the Limitrophe Section and are considered to be pumping non-Colorado												
	MEAS. RETURNS	0	0	4	0	3	1	7	52	0	0	9	6	82
	UNMEAS. RETURNS	63	60	74	146	187	119	104	114	138	129	166	91	1,391
	CONSUMPTIVE USE	124	117	353	282	497	287	623	2,830	267	250	510	305	6,445
YUMA AREA OFFICE, USBR														
DIVERSION FROM RIVER AND M.O.D.E.	DIVERSION 2/	61	49	83	90	110	133	145	140	110	92	65	64	1,140
	MEAS. RETURNS	51	41	70	75	92	112	122	118	92	77	55	54	960
	UNMEAS. RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
	CONSUMPTIVE USE	10	8	13	14	17	21	23	22	17	15	10	10	180
PUMPED FROM SOUTH GILA WELLS (DPOC'S)	MEAS. RETURNS 9/	4,815	5,170	6,070	5,870	4,861	3,559	5,514	6,360	5,810	5,920	4,059	3,259	61,267
	UNMEAS. RETURNS	-4,815	-5,170	-6,070	-5,870	-4,861	-3,559	-5,514	-6,360	-5,810	-5,920	-4,059	-3,259	-61,267
OTHER USERS PUMPING FROM THE COLORADO RIVER AND WELLS IN THE FLOOD PLAIN (Itemized listing begins on p.13)														
	DIVERSION 10/	1,471	1,508	1,444	2,347	2,498	2,355	3,138	2,920	2,530	2,412	1,612	1,594	25,829
	MEAS. RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
	UNMEAS. RETURNS	515	527	506	822	875	824	1,099	1,022	885	844	564	558	9,041
	CONSUMPTIVE USE	956	981	938	1,525	1,623	1,531	2,039	1,898	1,645	1,568	1,048	1,036	16,788
ARIZONA TOTALS														
	DIVERSION	278,355	253,482	349,983	388,804	406,298	364,443	310,861	#####	237,791	303,185	286,510	270,516	3,686,231
	MEAS. RETURNS	56,504	54,147	55,921	63,664	69,565	57,006	61,463	58,621	60,639	58,734	59,760	52,748	708,771
	UNMEAS. RETURNS	4,913	3,538	11,574	12,974	17,050	22,010	20,824	14,318	14,237	12,865	6,190	6,367	146,860
	CONSUMPTIVE USE	216,938	195,797	282,488	312,166	319,683	285,427	228,575	#####	162,915	231,586	220,560	211,401	2,830,599

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

**Footnotes:**

- 0/ Totals may differ from the sum of the monthly values due to rounding to the nearest acre-foot
- 1/ Diversions provided by the user. Calculated by adding M&I use to the product of the acreage of each crop type times the crop specific evapotranspiration, times irrigation efficiency
- 2/ Reported annual total only, distributed monthly according to the monthly use patterns of nearby users
- 3/ Havasu NWR diversion amounts have been adjusted downward for diversions out of the inlet channel by Mohave Valley Irrigation and Drainage District (Chesney) and Fort Mojave Indian Reservation
- 4/ Town of Parker diversion amounts have been adjusted downward for potable water delivered to the Colorado River Indian Tribes by the Town of Parker
- 5/ Sum of diversions by two river pumps, water delivered by the Town of Parker and an estimate of municipal diversion. Municipal diversions estimated by multiplying CRIT's portion of measure effluent by using nearby users diversion:effluent ratio. CRIT portion of wastewater returns from Joint Venture Treatment Plant are combined with agricultural drainage measured at Scott Road gage
- 6/ Main Outlet Drain return flow credit is measured flow at Station 0+00. 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.

DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 2003  
STATE OF ARIZONA

06/15/05

(ACRE-FEET)

WATER USER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL 0/
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7/ This is the summation for the Yuma Mesa Division of the Gila Project. Consisting of the North Gila Valley Irrigation District, the Yuma Irrigation District and the Yuma Mesa Irrigation & Drainage District is as follows:

Item	Annual Totals (Acre-Feet)
Diversion at Imperial Dam A/	309,077
Pumped from wells	2,486
Surface returns from South Gila Valley (S. Gila Canal Wasteway)	2,504
Return flow from North Gila Valley (6 drains & wasteways)	8,809
Return flow from South Gila Valley wells plus Yuma Mesa Division Unmeasured Return	55,771
Return flow from Yuma Mesa Outlet Drain (Yuma Mesa Conduit) B/	54,409
Return flow from protective and regulatory pumping unit C/	12,906
Estimated unmeasured groundwater return flow D/	26,248
Return flow share of Gila Main Canal loss E/	16,062
Subtotal return flow 0/	176,708
Consumptive Use (see note above)	134,855

A/ Total for the North Gila Valley, the Yuma Irrigation and the Yuma Mesa Irrigation and Drainage Districts

B/ 85 percent of the Yuma Mesa Outlet Drain credited to Yuma Mesa Irrigation and Drainage District with balance credited to 'Unit B'

C/ Estimated at 85 percent of Protective and Regulatory Pumping Unit with balance credited to 'Unit B'

D/ Estimated at 38 percent of the North Gila Valley Diversion at Imperial Dam plus 14 percent of Yuma Irrigation District diversion at Imperial Dam. (Based on analysis of the USGS Report 83-4220 entitled 'A Method for Estimating Ground-Water Return Flow to the Lower Colorado River in the Yuma Area')

E/ Diversion multiplied by the mileage weighted share of Gila Main Canal loss, less canal surface evaporation (1,397 af/yr) and phreatophyte use (2,154 af/yr)

8/ Reclamation currently considers pumping of wells from the flood plain or the underlying aquifer downstream from the Northerly International boundary (NIB), to not be diversions of Colorado River water.

The Regional Directors' decision, of December 2004, was based on the following: the ground water can reasonably be assumed to be flowing towards Mexico and, therefore, not 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." Beginning with the 2004 Water Use report, inclusion of these line items will be discontinued

9/ Reclamation is engaged in a modeling study to determine the amount of water returning to the Colorado River upstream of NIB, and how this return is affected by pumping of the DPOC wellfield

Until comprehensive modeling of the Yuma area is complete, this pumpage is added to the Arizona's measured returns and subtracted from Arizona's unmeasured returns

10/ Details on Arizona Supplemental Sheets.



ARIZONA SUPPLEMENTAL TABULATION  
CALENDAR YEAR 2003  
STATE OF ARIZONA

6/15/05

(ACRE-FEET)

WATER USER	USGS #	0/	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Marble Canyon Company			0.9	0.8	1.6	2.3	3.1	3.5	3.4	2.6	2.3	2.2	1.5	0.9	25
SUBTOTALS, LEE FERRY TO DAVIS DAM	1/		1	1	2	2	3	4	3	3	2	2	2	1	26
		DIVERSION	0	0	0	0	0	0	0	0	0	0	0	0	0
		MEAS. RETURNS	0	0	1	1	1	1	1	1	1	1	1	0	9
		UNMEAS. RETURNS	1	1	1	1	2	3	2	2	1	1	1	1	17
		CONSUMPTIVE USE													
McAlister, M. River Intake			0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	7
Vanderslice 34°50'17.8"N 114°34'11.0"W	2/3/	ADP-07	The pumpage from these two wells is added to MVIDD diversions, listed on page 7 as: "Pumped from Topock Mar												
Pelican Bend Farm 34°50'08.3"N 114°34'29.4"W	2/3/	ADP-08													
Crystal Beach Water Conservation District			7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	90
Arizona-American Water Co. (Havasus Water Co)			38.3	32.7	39.1	42.5	53.1	61.5	76.6	67.9	71.8	68.7	46.7	50.2	649
Arizona State Land Department			1.5	1.2	1.2	2.1	0.2	4.2	2.5	2.2	1.9	0.3	0.8	2.5	20
Arizona State Parks (Windsor Beach)			1.6	3.7	1.5	0.9	3.2	3.2	5.8	5.1	4.5	5.4	2.3	1.6	39
SUBTOTALS, DAVIS DAM TO PARKER DAM	1/		50	46	50	54	65	77	93	83	86	82	58	62	806
		DIVERSION	0	0	0	0	0	0	0	0	0	0	0	0	0
		MEAS. RETURNS	18	16	18	19	23	27	33	29	30	29	20	22	284
		UNMEAS. RETURNS	32	30	32	35	42	50	60	54	56	53	38	40	522
		CONSUMPTIVE USE													
Hillcrest Water Co.			1.3	3.1	3.1	2.0	3.1	2.7	2.8	4.1	2.2	3.3	2.8	2.2	33
Rayner, Jack Jr. 33°41'24.6"N 114°30'45.9"W		AEP-9	241.5	325.8	49.1	235.8	307.5	240.9	370.4	462.3	457.9	218.9	88.7	173.6	3172
Rayner, Jack Jr. 33°41'24.6"N 114°30'45.9"W		AEW-35	125.4	213.0	30.4	99.6	40.6	70.9	130.1	108.5	124.4	70.5	32.4	30.9	1077
Cibola Sportsman 33°18'09.8"N 114°40'36.3"W			26.7	21.4	36.4	39.3	48.1	58.3	63.6	61.2	48.1	40.3	28.6	28.2	500
North Baja Pipeline, LLC, (PG&E)			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0
BLM Permittees (LHFO & YFO)	4/		48.4	60.4	82.4	89.0	108.8	132.0	144.0	138.6	108.9	91.3	64.8	63.8	1132
SUBTOTALS, PARKER DAM TO IMPERIAL DAM	1/		443	624	201	466	508	505	711	775	741	424	217	299	5914
		DIVERSION	0	0	0	0	0	0	0	0	0	0	0	0	0
		MEAS. RETURNS	155	218	70	163	178	177	249	271	259	148	76	105	2069
		UNMEAS. RETURNS	288	406	131	303	330	328	462	504	482	276	141	194	3845
		CONSUMPTIVE USE													
YUMA ISLAND - AZ															
Bard Date Gardens 32°44'50.9"N 114°31'56.3"W	5/	AEW-03	3.8	7.2	15.4	52.2	4.3	4.3	18.5	14.7	23.4	25.7	11.5	6.6	188
Bard Date Gardens 32°44'26.5"N 114°31'52.4"W	5/	AEP-01	69.2	32.4	79.2	77.0	134.2	167.9	231.3	81.4	38.8	127.1	143.0	136.7	1318
Glen Curtis Citrus 32°43'17.8"N 114°33'50.2"W	5/	AEP-02, 03	72.2	90.1	123.1	132.9	162.5	197.1	215.0	206.9	162.6	136.3	96.7	95.2	1690
Glen Curtis Citrus 32°43'59.7"N 114°33'41.4"W	5/	AEW-04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Glen Curtis Citrus 32°44'32.9"N 114°33'36.7"W	5/	AEW-05	63.6	13.8	14.7	87.6	101.9	34.5	102.1	194.8	7.0	14.3	0.0	0.0	634
Glen Curtis Citrus 32°43'47.1"N 114°32'49.1"W	2/3/	ADW-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Yowelman, R. 32°43'59.9"N 114°32'44.4"W	2/3/	ADW-02	55.0	44.0	75.1	81.0	99.1	120.2	131.1	126.2	99.2	83.1	59.0	58.1	1031
Harp, Yowelman 32°43'59.9"N 114°32'44.4"W	2/3/	ADW-04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Ranch "5" Lands, Yuma Island, AZ (760ac)	6/		67.9	76.1	212.4	220.7	168.2	64.3	227.2	87.3	214.8	369.9	137.5	69.0	1915
SUM OF YUMA ISLAND - AZ			331.6	263.6	519.8	651.4	670.1	588.3	925.2	711.3	545.7	756.4	447.6	365.6	6777

ARIZONA SUPPLEMENTAL TABULATION  
CALENDAR YEAR 2003  
STATE OF ARIZONA

6/15/05

(ACRE-FEET)

WATER USER		USGS #	0/	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
BLM Permittees (YFO)				10.9	13.6	18.6	20.0	24.5	29.7	32.4	31.2	24.5	20.6	14.6	14.4	255
Pratt, L.	32°49'31.2"N 114°29'10.3"W	2/3/5/		6.8	8.5	11.6	12.5	15.3	18.5	20.2	19.5	15.3	12.8	9.1	9.0	159
Ott, Judd T.	32°42'48.1"N 114°33'33.7"W	5/	AEW-06													0
Ott, Judd T.	32°42'49.4"N 114°33'34.9"W	5/3/	AEW-07													0
Cameron Brothers	32°42'34.0"N 114°34'13.1"W	5/	AEW-08													0
Cameron Brothers	32°43'00.0"N 114°34'28.1"W	5/3/	AEW-10													0
Cameron Brothers	32°42'59.7"N 114°34'43.4"W	5/3/	AEW-11													0
Peach	32°42'21.9"N 114°34'50.5"W	5/3/	AEW-41													0
Ogram, George	32°42'54.2"N 114°34'12.5"W	5/	AEW-09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Peach	32°42'47.3"N 114°35'35.0"W	5/3/	AEW-12	12.2	9.8	16.7	18.0	22.0	26.7	29.1	28.0	22.0	18.5	13.1	12.9	229
Peach	32°42'49.0"N 114°36'05.3"W	5/	AEW-13	35.8	0.5	37.1	43.4	10.4	0.0	0.0	0.0	0.0	0.0	0.0	45.9	173
Yucca Pwr Plant (Arizona Public Service Co.)				41.5	33.6	0.5	2.3	8.3	17.3	41.1	37.2	54.9	62.3	51.7	53.7	404
Amigo Farms	32°43'53.2"N 114°39'21.9"W	2/3/	aew-14, adp-1	18.3	14.7	25.0	27.0	33.0	40.1	43.7	42.1	33.1	27.7	19.7	19.4	344
Curry Family Limited	32°44'00.3"N 114°40'03.9"W	2/3/	aep-4, adp-2	15.0	12.0	20.5	22.1	27.0	32.8	35.8	34.4	27.1	22.7	16.1	15.8	281
Power, P.	32°44'10.2"N 114°40'45.5"W	2/3/	ADP-03,-04	71.6	57.4	97.8	105.6	129.1	156.7	170.9	164.5	129.3	108.3	76.9	75.7	1344
Doug Mellon Farms	32°43'55.6"N 114°41'26.3"W	5/	AEW-15													0
Doug Mellon Farms	32°44'10.0"N 114°41'56.4"W	5/	AEW-16													0
Cocopah Bend RV Park	SEC30 T16S R22E BDB	2/3/														0
Hall, Ansil	32°43'26.6"N 114°42'54.8"W	2/4/7/	ADP-05	26.7	21.4	36.4	39.3	48.1	58.3	63.6	61.2	48.1	40.3	28.6	28.2	500.0
Glen Curtis Citrus	32°38'11.4"N 114°45'47.0"W		AEW-17													0
Glen Curtis Citrus	32°38'11.4"N 114°45'47.0"W		AEW-18													0
Glen Curtis Citrus	32°38'11.4"N 114°45'47.0"W		AEW-19													0
Jim Cuming	32°37'27.4"N 114°46'19.8"W		AEW-21													0
Jim Cuming	32°37'03.9"N 114°46'19.3"W		AEW-22													0
Jim Cuming	32°36'57.7"N 114°46'20.0"W		AEW-23													0
Jim Cuming	32°36'52.6"N 114°47'18.0"W		AEW-27													0
Jim Cuming	32°36'39.2"N 114°47'10.8"W		AEW-30													0
Jim Cuming	32°35'41.2"N 114°46'55.3"W		AEW-31													0
Jim Cuming	32°37'06.2"N 114°46'55.9"W		ADW-06													0
Jim Cuming	32°37'06.2"N 114°46'55.9"W		ADW-07													0
Jim Cuming	32°35'05.5"N 114°47'42.4"W		ADW-08													0
Waymon Farms	32°36'39.0"N 114°46'09.8"W		AEW-28													0
Waymon Farms	32°36'38.4"N 114°45'54.6"W		AEW-29													0
Jim Cuming	32°33'48.0"N 114°47'21.5"W	7/	AEW-32													0
Earl Hughs	32°29'55.8"N 114°48'25.6"W	7/	AEW-33													0
Burell	32°41'48.0"N 114°43'46.4"W	7/	ADW-05													0
Jim Cuming	32°32'13.5"N 114°47'51.2"W	7/	ADW-09													0
J. Barkley	32°30'56.6"N 114°47'56.7"W	7/	ADW-10													0
Roger S. Brown	32°30'25.0"N 114°48'02.4"W	7/	ADW-11													0
State of Arizona (Arizona State Land Department)				406.1	402.2	407.2	883.6	934.1	800.6	968.5	930.0	801.0	834.5	658.1	591.7	8,617.4
SUBTOTALS, BELOW IMPERIAL DAM		1/	DIVERSION	977	837	1,191	1,825	1,922	1,769	2,331	2,059	1,701	1,904	1,335	1,232	19,083
			MEAS. RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
			UNMEAS. RETURNS	342	293	417	639	673	619	816	721	595	666	467	431	6,679
			CONSUMPTIVE USE	635	544	774	1,186	1,249	1,150	1,515	1,338	1,106	1,238	868	801	12,404
TOTAL ARIZONA SUPPLEMENTAL TABULATION		1/	DIVERSION	1,471	1,508	1,444	2,347	2,498	2,355	3,138	2,920	2,530	2,412	1,612	1,594	25,829
			MEAS. RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
			UNMEAS. RETURNS	515	527	506	822	875	824	1,099	1,022	885	844	564	558	9,041
			CONSUMPTIVE USE	956	981	938	1,525	1,623	1,531	2,039	1,898	1,645	1,568	1,048	1,036	16,788

ARIZONA SUPPLEMENTAL TABULATION  
CALENDAR YEAR 2003  
STATE OF ARIZONA

6/15/05

(ACRE-FEET)

WATER USER	USGS #	0/	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
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**Footnotes:**

- 0/ Reference number listed on the annual USGS, Yuma Field Office report "Pumped Diversions From The Colorado River and Adjacent Floodplain", or the column contains a comment.
- 1/ Monthly and annual totals rounded to the nearest whole number.
- 2/ Calculated by assuming an annual diversion rate of 6.25 af per acre.
- 3/ Reported annual total only, distributed monthly according to the monthly use patterns of nearby users.
- 4/ BLM Permittees reported total includes 216 af diverted by Pratt for the Pratt Revegetation Project. Pratt agricultural use has been reduced by this quantity.
- 5/ Calculated from monthly power records and power-discharge measurements where available, else from power-discharge ratio.
- 6/ Surface water diversions from the AAC through Bard Water District. Use calculated by prorating total measured delivery by relative acreage in each state. Use has been deducted from Bard diversions.
- 7/ BLM Permittee, Limitrophe area, administered by BLM YFO.
- 8/ Reclamation currently considers pumping of wells from the flood plain or the underlying aquifer downstream from the Northerly International boundary (NIB), to not be diversions of Colorado River water. The Regional Directors' decision, of December 2004, was 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." Beginning with the 2004 Water Use report, these line items will be discontinued.

DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 2003  
STATE OF CALIFORNIA

06/15/05

(ACRE-FEET)

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL 0/
FORT MOJAVE INDIAN RESERVATION PUMPED FROM RIVER AND WELLS DELIVERED BY CITY OF NEEDLES	DIVERSION 1/ DIVERSION	565	486	981	1,695	1,732	2,355	2,219	2,029	2,251	1,408	408	306	16,435
	MEAS. RETURNS	2	2	3	4	4	5	6	6	4	4	3	3	46
	UNMEAS. RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
	CONSUMPTIVE USE	262	225	455	785	802	1,091	1,028	940	1,042	652	190	143	7,615
CITY OF NEEDLES PUMPED FROM 4 WELLS IN FLOODPLAIN	DIVERSION	305	263	529	914	934	1,269	1,197	1,095	1,213	760	221	166	8,866
	MEAS. RETURNS	138	110	188	203	248	301	329	316	249	208	148	145	2,583
	UNMEAS. RETURNS	22	27	37	40	49	59	65	62	49	41	29	29	508
	CONSUMPTIVE USE 2/	24	30	42	45	55	66	73	70	55	46	33	32	570
CHEMEHUEVI INDIAN RESERVATION PUMPED FROM RIVER AND WELLS	DIVERSION	92	53	110	118	145	176	192	184	145	121	86	85	1,506
	MEAS. RETURNS	0	0	15	17	3	0	2	6	191	190	197	0	621
	UNMEAS. RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
	CONSUMPTIVE USE	0	0	7	8	1	0	1	3	88	88	91	0	287
METROPOLITAN WATER DISTRICT DIVERSION FROM LAKE HAVASU	DIVERSION 3/ MEAS. RETURNS 4/	58,009	6,390	81,919	83,190	53,477	34,569	50,924	62,910	56,943	57,644	66,941	75,127	688,043
	UNMEAS. RETURNS	261	1,434	271	251	264	244	266	248	249	259	245	265	4,257
	CONSUMPTIVE USE	0	0	0	0	0	0	0	0	0	0	0	0	0
		57,748	4,956	81,648	82,939	53,213	34,325	50,658	62,662	56,694	57,385	66,696	74,862	683,786
PARKER DAM AND GOVERNMENT CAMP DIVERSION AT PARKER DAM	DIVERSION	8	6	6	4	16	18	24	19	17	18	10	11	156
	MEAS. RETURNS	2	2	2	2	10	10	10	10	10	1	1	1	62
	UNMEAS. RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
	CONSUMPTIVE USE	6	4	4	2	6	8	14	9	7	16	9	9	94
COLORADO RIVER INDIAN RESERVATION PUMPED FROM 4 RIVER PUMPS 4 PUMPS - BIG RIVER DEVELOPMENT	DIVERSION	52	324	66	305	206	419	349	308	301	314	109	104	2,857
	MEAS. RETURNS	85	64	88	113	161	194	205	179	151	143	93	75	1,551
	UNMEAS. RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
	CONSUMPTIVE USE 5/	59	168	67	181	159	265	240	211	196	198	88	78	1,910
		78	219	87	237	208	347	313	275	256	260	114	102	2,497
CITY OF WINTERHAVEN PUMPED FROM 1 WELL IN FLOODPLAIN	DIVERSION 6/	7	5	9	10	12	15	16	16	12	10	7	7	128
	MEAS. RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
	UNMEAS. RETURNS	2	2	3	3	4	5	5	5	4	3	2	2	40
	CONSUMPTIVE USE	5	3	6	7	8	10	11	11	8	7	5	5	88
PALO VERDE IRRIGATION DISTRICT DIVERSION FROM PALO VERDE DAM	DIVERSION	36,210	41,450	73,160	92,080	105,400	107,500	105,700	103,700	88,250	64,750	41,290	57,870	917,360
	MEAS. RETURNS	25,170	30,431	34,825	38,823	44,088	47,907	46,858	47,852	46,193	48,376	38,507	37,309	486,339
	UNMEAS. RETURNS	2,028	2,321	4,097	5,156	5,902	6,020	5,919	5,807	4,942	3,626	2,312	3,241	51,371
	CONSUMPTIVE USE	9,012	8,698	34,238	48,101	55,410	53,573	52,923	50,041	37,115	12,748	471	17,320	379,650
YUMA PROJECT, RES. DIV. INDIAN UNIT DIVERSION AT IMPERIAL DAM	DIVERSION	3,030	2,368	5,701	6,775	5,797	2,303	2,451	2,118	2,786	6,055	3,900	3,068	46,352
	MEAS. RETURNS	34	35	82	14	97	32	30	34	42	148	143	114	805
	UNMEAS. RETURNS	506	395	952	1,131	968	385	409	354	465	1,011	651	512	7,739
YUMA PROJECT, RES. DIV. BARD UNIT DIVERSION AT IMPERIAL DAM	DIVERSION	2,256	1,859	4,945	5,945	6,312	4,661	4,507	2,845	3,077	4,686	3,288	2,596	46,977
	MEAS. RETURNS	14	16	42	7	65	40	38	27	30	71	75	58	483
	UNMEAS. RETURNS	377	310	826	993	1,054	778	753	475	514	783	549	434	7,846

DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 2003  
STATE OF CALIFORNIA

06/15/05

(ACRE-FEET)

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL 0/
UNASSIGNED RETURNS FROM YUMA PROJECT, RESERVATION DIVISION	MEAS. RETURNS 7/	2,511	2,473	2,586	2,418	3,129	3,006	2,567	2,741	1,987	2,433	3,032	2,520	31,403
SUM, YUMA PROJECTS, RES. DIV. USE	CONSUMPTIVE USE	1,844	998	6,158	8,157	6,796	2,723	3,161	1,332	2,825	6,295	2,738	2,026	45,053
IMPERIAL IRRIGATION DISTRICT DIVERSION AT IMPERIAL DAM	DIVERSION	162,274	126,025	278,351	336,869	339,641	319,043	341,347	293,460	265,472	270,714	178,927	154,238	3,066,361
	MEAS. RETURNS	3,015	3,112	6,646	1,192	9,927	8,310	8,225	7,872	7,438	11,158	11,399	9,844	88,138
	UNMEAS. RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
	CONSUMPTIVE USE	159,259	122,913	271,705	335,677	329,714	310,733	333,122	285,588	258,034	259,556	167,528	144,394	2,978,223
COACHELLA VALLEY WATER DISTRICT DIVERSION AT IMPERIAL DAM	DIVERSION	18,366	15,408	21,316	27,841	31,393	30,573	31,327	31,392	31,764	29,217	20,996	16,330	305,923
	MEAS. RETURNS	341	381	509	99	918	796	755	842	890	1,204	1,338	1,042	9,115
	UNMEAS. RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
	CONSUMPTIVE USE	18,025	15,027	20,807	27,742	30,475	29,777	30,572	30,550	30,874	28,013	19,658	15,288	296,808
OTHER USERS PUMPING FROM COLORADO RIVER AND WELLS IN FLOOD PLAIN DAVIS DAM TO INTERNATIONAL BOUNDARY	DIVERSION 8/	1,071	910	1,565	1,757	2,075	2,285	2,552	2,361	2,148	1,996	1,328	1,160	21,208
	MEAS. RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
	UNMEAS. RETURNS	474	401	691	776	916	1,008	1,127	1,042	949	883	587	512	9,367
	CONSUMPTIVE USE	597	509	874	981	1,159	1,277	1,425	1,319	1,199	1,113	741	648	11,841
CALIFORNIA TOTALS	DIVERSION	282,073	195,407	468,314	556,808	546,477	504,241	541,958	501,664	453,617	437,358	317,645	311,041	5,116,601
	MEAS. RETURNS	31,369	37,911	45,000	42,846	58,547	60,405	58,814	59,688	56,888	63,691	54,769	51,182	621,110
	UNMEAS. RETURNS	3,732	3,852	7,140	9,078	9,861	9,619	9,554	8,906	8,255	7,290	4,503	4,954	86,745
	CONSUMPTIVE USE	246,971	153,644	416,174	504,884	478,069	434,218	473,590	433,069	388,474	366,376	258,372	254,905	4,408,746

NOTE: The term 'CONSUMPTIVE USE' as used in this tabulation means diversions including ground water pumping, less measured return flow and less current estimated unmeasured return flow to the river.

**Footnotes:**

- 0/ Totals may differ from the sum of the monthly values due to rounding to the nearest acre-foot.
- 1/ The diversion amounts are provided by the user. The quantities are calculated by adding M&I use to the product of the acreage of each crop type. It is then multiplied by the crop's specific evapotranspiration, times irrigation efficiency.
- 2/ A portion of the use is offset by pumping from the LCWSP. Details are shown in the LCWSP Section of this report.
- 3/ MWD diversion does not include the 691 af diverted for Tijuana, Mexico.
- 4/ Estimate based on measured seepage returning from regulatory reservoirs less an estimated amount of phreatophyte use. High February returns include partial evacuation of Gene Wash Reservoir through Whitsett Intake Pumping Plant and Gene Wash. Partial evacuation was necessary to undertake headgate repairs at Whitsett Intake Pumping Plant.
- 5/ Unmeasured returns calculated as 40% of Big River pumpage.
- 6/ Reported annual total only, distributed monthly according to the monthly use patterns of nearby users.
- 7/ Unassigned Measured Returns include drainage from the Indian Unit and the Bard Unit in the Reservation Division but excludes seepage from the All-American Canal.
- 8/ Details can be found on the California Supplemental Sheets.

CALIFORNIA SUPPLEMENTAL TABULATION  
 CALENDAR YEAR 2003  
 STATE OF CALIFORNIA  
 6/15/05

			(ACRE-FEET)												
WATER USER	USGS #	1/	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL 0/
De Soto Ranch 34° 59' 42.6"N 114° 38' 35.8"W	2/	cew-17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
De Soto Ranch 34° 59' 22.9"N 114° 38' 59.6"W	2/	cew-18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Southern Cal Gas 34° 59' 22.9"N 114° 38' 59.6"W	3/1/	cew-21	5.6	6.9	9.5	10.2	12.5	15.2	16.5	15.9	12.5	10.5	7.4	7.3	130.0
Pacific Gas & Electric Company	4/		4.3	5.3	7.3	7.9	9.6	11.7	12.7	12.2	9.6	8.1	5.7	5.6	100.0
Havasu Water Company T5N/R25E SEC31	4/	Needles rpt.	2.6	3.2	4.4	4.7	5.8	7.0	7.6	7.3	5.8	4.8	3.4	3.4	60.0
Wells reported under non-Federal subcontracts to LCWSP	4/	Needles rpt.	6.5	8.2	11.1	12.0	14.7	17.8	19.5	18.7	14.7	12.3	8.8	8.6	153.0
SUBTOTALS, DAVIS DAM TO PARKER DAM	5/		19.0	24.0	32.0	35.0	43.0	52.0	56.0	54.0	43.0	36.0	25.0	25.0	444.0
		MEAS. RETURNS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		UNMEAS. RETURNS	3.6	4.5	6.2	6.7	8.2	9.9	10.8	10.4	8.2	6.9	4.9	4.8	85.0
		CONSUMPTIVE USE	15.4	19.5	25.8	28.3	34.8	42.1	45.2	43.6	34.8	29.1	20.1	20.2	359.0
Lye, C. L. 34° 05' 24.6"N 114° 27' 46.7"W	6/3/	cew-16	15.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.0
Lake Enterprises of California (was Pichaco Dev't)			0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.0	0.0	0.5	0.5	3.0
BLM Permitees (LHFO & YFO)	7/		30.7	29.5	34.5	34.0	46.3	57.0	49.4	49.0	49.2	34.5	37.2	28.6	480.0
SUBTOTALS, PARKER DAM TO IMPERIAL DAM	5/	DIVERSION	46.0	30.0	34.0	34.0	47.0	57.0	50.0	50.0	49.0	34.0	38.0	29.0	498.0
		MEAS. RETURNS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		UNMEAS. RETURNS	20.6	13.4	15.2	15.2	21.0	25.5	22.4	22.4	21.9	15.2	17.0	13.0	223.0
		CONSUMPTIVE USE	25.4	16.6	18.8	18.8	26.0	31.5	27.7	27.7	27.1	18.8	21.0	16.0	275.0
Wetmore, Kenneth C.	7/3/		0.3	0.2	0.4	0.4	0.5	0.6	0.7	0.7	0.5	0.4	0.3	0.3	5.0
Williams, Jerry O. & Deloris P.	7/3/		0.0	0.1	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.0	0.1	1.0
Lindeman, William H. & Hazel D.	7/3/		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Carney, Jerome D.	7/3/		0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Wetmore, Mark M.	7/3/		0.5	0.4	0.7	0.7	0.9	1.1	1.2	1.1	0.9	0.8	0.5	0.5	9.0
<u>FORT YUMA IR - CA</u>															
Valdez, Mike 32° 48'N 114° 30'W	6/3/	cdp-1, 2, cew-1	53.3	42.7	72.8	78.6	96.1	116.6	127.2	122.4	96.2	80.6	57.2	56.3	1,000.0
Living Earth Farm 32° 48'N 114° 31'W	6/3/	cew-02, cdp-3	29.3	23.5	40.0	43.2	52.9	64.1	70.0	67.3	52.9	44.3	31.5	31.0	550.0
Mike Valdez	6/3/	cew-3, cdp-4, cdw-1	169.9	136.1	232.0	250.5	306.3	371.6	405.4	390.1	306.6	256.9	182.3	179.4	3,187.0
MivCo Packing 32° 46' 40.6"N 114° 33' 35.0"W	2/3/	cew-14	42.6	49.5	86.5	120.9	125.0	44.0	27.5	41.2	134.6	228.0	193.7	130.5	1,224.0
Valdez, Mike 32° 44' 18.2"N 114° 35' 20.3"W	2/3/	cew-15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ranch "5" Lands, Yuma Island, CA (530 ac)	8/	AAC diversion	47.2	52.9	147.6	153.3	116.9	44.7	157.9	60.7	149.2	257.1	95.5	48.0	1,331.0
Huerta Packing 32° 44' N 114° 39' W	6/3/	cdp-6, 7	20.0	16.0	27.3	29.5	36.0	43.7	47.7	45.9	36.1	30.2	21.5	21.1	375.0
<u>Sum of pumping on FYIR - CA</u>			362.2	320.6	606.3	676.0	733.1	684.7	835.6	727.6	775.6	897.1	581.6	466.3	7,667.0
<u>YUMA ISLAND - CA</u>															
<u>Arizona State Land Department Lessees</u>															
Horizon Farms	6/	cep-1, 2, 3 cdp-6, 7, cew-8, cdp-5, cdew-1 cdw-5, cew-7	153.5	123.0	209.7	226.4	276.8	335.8	366.3	352.5	277.1	232.1	164.7	162.1	2,880.0
Ed Wavers Farming 32° 45'N 114° 33'W	2/3/		12.8	10.3	17.5	18.9	23.1	28.0	30.5	29.4	23.1	19.3	13.7	13.5	240.0
Land, K. H. 32° 45' 32.1"N 114° 34' 58.5"W	2/3/	cew-12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wilson Farms 32° 45' 23.9"N 114° 34' 37.8"W	2/	cew-11	11.2	0.0	1.4	12.6	14.0	15.4	12.6	12.6	0.0	8.4	4.2	4.2	97.0
Horizon Farms & R. Harp	6/	cew-4, 5, 6, 10, cdw-2, :	333.6	267.2	455.6	491.9	601.4	729.7	796.0	766.0	602.0	504.4	358.0	352.3	6,258.0
Dees, Alex 32° 45' 40.0"N 114° 33' 55.5"W	2/	cew-09	74.1	88.2	128.8	176.4	231.2	254.0	264.6	234.6	273.4	176.4	79.4	45.9	2,027.0
Power, L.O. 32° 44' 45.6"N 114° 33' 12.9"W	6/	cew-13	57.6	46.1	78.6	84.9	103.8	125.9	137.4	132.2	103.9	87.1	61.8	60.8	1,080.0
<u>Sum of pumping on Yuma Island - CA</u>			643.0	535.0	892.0	1,011.0	1,250.0	1,489.0	1,608.0	1,527.0	1,279.0	1,028.0	682.0	639.0	12,583.0
SUBTOTALS, ALL USES BELOW IMPERIAL DAM	5/	DIVERSION	1,006.0	856.0	1,499.0	1,688.0	1,985.0	2,176.0	2,446.0	2,257.0	2,056.0	1,926.0	1,265.0	1,106.0	20,266.0
		MEAS. RETURNS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		UNMEAS. RETURNS	449.7	382.6	670.1	754.5	887.3	972.7	1,093.4	1,008.9	919.0	860.9	565.5	494.4	9,059.0
		CONSUMPTIVE USE	556.3	473.4	828.9	933.5	1,097.7	1,203.3	1,352.6	1,248.1	1,137.0	1,065.1	699.5	611.6	11,207.0

CALIFORNIA SUPPLEMENTAL TABULATION  
 CALENDAR YEAR 2003  
 STATE OF CALIFORNIA  
 6/15/05

(ACRE-FEET)

WATER USER	USGS # 1/	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL 0/
TOTAL CALIFORNIA SUPPLEMENTAL TABULATION	5/	1,071.0	910.0	1,565.0	1,757.0	2,075.0	2,285.0	2,552.0	2,361.0	2,148.0	1,996.0	1,328.0	1,160.0	21,208.0
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		473.9	400.6	691.5	776.4	916.5	1,008.1	1,126.5	1,041.7	949.1	883.0	587.3	512.1	9,367.0
		597.1	509.4	873.5	980.6	1,158.5	1,276.9	1,425.5	1,319.3	1,198.9	1,113.0	740.7	647.9	11,841.0

**Footnotes:**

- 0/ Total may differ from the sum of the values due to rounding.
- 1/ Reference number listed on the annual USGS, Yuma Field Office report "Pumped Diversions From The Colorado River and Adjacent Floodplain", or the column contains a comment.
- 2/ Calculated from monthly power records and power-discharge measurements where available, otherwise from power-discharge rate.
- 3/ Reported annual total only, distributed monthly according to the monthly use patterns of nearby users.
- 4/ Use is offset by pumping from the LCWSP. Details shown in the LCWSP Section of this report.
- 5/ Monthly and annual totals rounded to the nearest whole number.
- 6/ Calculated by assuming an annual diversion rate of 6.25 at per acre.
- 7/ Location of well/pump not reported.
- 8/ Surface water diversions from the AAC through Bard Water District. Use calculated by prorating total measured delivery by relative acreage in each state.  
 Bard Water District diversion has been reduced by the total delivery to Ranch 5 in AZ and CA.

DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 2003  
STATE OF NEVADA

06/15/05

(ACRE-FEET)

WATER USER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL 0/
<hr/>													
BOULDER CANYON PROJECT													
DIVERSION AT HOOVER DAM													
DIVERSION	4	5	5	4	4	5	5	5	5	4	5	5	55
MEAS. RETURNS	2	2	2	2	2	2	2	2	2	2	2	2	22
UNMEAS. RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
CONSUMPTIVE USE	2	3	3	3	2	3	3	3	3	3	3	3	33
ROBERT B. GRIFFITH WATER PROJECT													
DIVERSION AT SADDLE ISLAND, LAKE MEAD													
DIVERSION	29,211	25,480	30,259	37,599	38,471	43,816	46,716	44,602	38,854	46,947	35,025	33,761	450,741
MEAS. RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
UNMEAS. RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
CONSUMPTIVE USE	29,211	25,480	30,259	37,599	38,471	43,816	46,716	44,602	38,854	46,947	35,025	33,761	450,741
LAKE MEAD NATIONAL RECREATION AREA													
DIVERSIONS FROM LAKE MEAD													
DIVERSION	51	47	56	63	78	86	111	105	85	83	57	30	850
MEAS. RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
UNMEAS. RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
CONSUMPTIVE USE	51	47	56	63	78	86	111	105	85	83	57	30	850
LAKE MEAD NATIONAL RECREATION AREA													
DIVERSION FROM LAKE MOHAVE (COTTONWOOD)													
DIVERSION	19	17	20	24	18	21	25	32	20	25	22	15	257
MEAS. RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
UNMEAS. RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
CONSUMPTIVE USE	19	17	20	24	18	21	25	32	20	25	22	15	257
BASIC MANAGEMENT INC.													
DIVERSION AT SADDLE ISLAND, LAKE MEAD													
DIVERSION	393	460	537	449	427	383	536	497	436	458	371	385	5,332
MEAS. RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
UNMEAS. RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
CONSUMPTIVE USE	393	460	537	449	427	383	536	497	436	458	371	385	5,332
CITY OF HENDERSON													
DIVERSION AT SADDLE ISLAND, LAKE MEAD													
DIVERSION	393	516	508	643	1,329	1,583	1,368	1,219	845	427	474	556	9,861
MEAS. RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
UNMEAS. RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
CONSUMPTIVE USE	393	516	508	643	1,329	1,583	1,368	1,219	845	427	474	556	9,861
NEVADA DEPARTMENT OF FISH & GAME													
DIVERSION AT SADDLE ISLAND, LAKE MEAD													
DIVERSION	476	408	359	204	189	129	129	66	63	64	68	67	2,222
MEAS. RETURNS	475	407	358	203	188	128	128	65	62	63	67	66	2,210
UNMEAS. 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
CITY OF BOULDER CITY													
DIVERSION AT HOOVER DAM													
DIVERSION	10	0	0	12	0	0	0	0	0	0	0	0	22
MEAS. RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
UNMEAS. RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
CONSUMPTIVE USE	10	0	0	12	0	0	0	0	0	0	0	0	22
PACIFIC COAST BUILDING PRODUCTS INC.													
DIVERSION AT GYPSUM WASH, LAKE MEAD													
DIVERSION	71	82	48	95	73	79	84	61	54	82	66	74	869
MEAS. RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
UNMEAS. RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
CONSUMPTIVE USE	71	82	48	95	73	79	84	61	54	82	66	74	869



DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 2003  
STATE OF NEVADA

06/15/05		(ACRE-FEET)												
WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL 0/
MOHAVE GENERATING STATION (SO. CAL. EDISON) PUMPED FROM 1 WELL	DIVERSION	998	718	889	425	557	1,193	1,254	1,206	1,209	1,121	1,018	976	11,564
	MEAS. RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
	UNMEAS. RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
	CONSUMPTIVE USE	998	718	889	425	557	1,193	1,254	1,206	1,209	1,121	1,018	976	11,564
BIG BEND WATER DISTRICT (LAUGHLIN, NV) DIVERSION	DIVERSION	392	342	394	425	492	531	544	545	502	460	323	365	5,315
	MEAS. RETURNS	268	259	279	269	290	280	338	323	219	203	213	205	3,146
	UNMEAS. RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
	CONSUMPTIVE USE	124	83	115	156	202	251	206	222	283	257	110	160	2,169
FORT MOJAVE INDIAN RESERVATION PUMPED FROM 2 WELLS IN FLOODPLAIN	DIVERSION 1/	220	205	296	385	526	628	498	452	448	317	201	171	4,345
	MEAS. RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
	UNMEAS. RETURNS	73	68	98	127	173	207	164	149	148	105	66	56	1,434
	CONSUMPTIVE USE	147	137	198	258	353	421	334	303	300	212	135	115	2,911
LAS VEGAS WASH RETURN FLOWS	RETURNS 2/	16,676	14,323	17,384	16,487	15,158	13,975	13,729	14,918	13,985	16,241	16,318	17,036	186,230
OTHER USERS PUMPING FROM COLORADO RIVER AND WELLS IN FLOOD PLAIN DAVIS DAM TO CALIFORNIA BOUNDARY	DIVERSION 3/	0	0	0	0	0	0	0	0	0	0	0	0	0
	MEAS. RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
	UNMEAS. 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
NEVADA TOTALS	DIVERSION	32,239	28,279	33,371	40,328	42,163	48,454	51,269	48,789	42,521	49,988	37,629	36,404	491,434
	MEAS. RETURNS	17,421	14,991	18,023	16,961	15,638	14,385	14,197	15,308	14,268	16,509	16,600	17,309	191,608
	UNMEAS. RETURNS	73	68	98	127	173	207	164	149	148	105	66	56	1,434
	CONSUMPTIVE USE	14,745	13,220	15,250	23,240	26,352	33,862	36,908	33,332	28,105	33,374	20,963	19,039	298,392
GROUNDWATER INJECTED STORAGE LAS VEGAS VALLEY WATER DIST.	INJECTED 4/	2,967	3,414	1,628	0	0	0	0	0	891	4,423	6,708	8,509	28,540
	WITHDRAWN	0	0	0	0	0	0	0	109	367	337	109	64	986
CITY OF NORTH LAS VEGAS	INJECTED	0	0	0	0	0	0	0	0	0	33	74	60	167
	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 current estimated unmeasured return flow to the river.

**Footnotes:**

0/ Totals may differ from the sum of the monthly values due to rounding to the nearest acre-foot.

1/ Diversions provided by the user. Calculated by adding M&I use to the product of the acreage of each crop type times the crop specific evapotranspiration, times irrigation efficiency

2/ 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 USBR letter to SNWA and CRCN dated July 29, 2003.

3/ Details on Nevada Supplemental Sheets.

4/ Nevada Injected Storage Balance: A/

Beginning of Year Cumulative Injected Storage B/	251,825
Plus Current Year Additions	28,707
Minus Current Year Withdrawals	986
End of Year Cumulative Injected Storage	<u>279,546</u>

A/ Colorado River water injected into ground water storage is accounted as a consumptive use in the year in which it is diverted from the Colorado River. It will not be accounted 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

B/ 2002 EOY Cumulative Storage, which is equal to 2003 BOY Cumulative Storage, was corrected after release of the 2002 Decree Accounting report.

NEVADA SUPPLEMENTAL TABULATION  
 CALENDAR YEAR 2003  
 STATE OF NEVADA  
 06/15/05

WATER USER		(ACRE-FEET)												TOTAL	
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
Sportsman's Park	1/	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Boy Scouts of America	1/ SEC5 T33S R66E	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Nevada Supplemental Tabulation		DIVERSION	0	0	0	0	0	0	0	0	0	0	0	0	0
		MEAS. RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
		UNMEAS. 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

**Footnotes:**

1/ Pumped uses for each diverter listed for Nevada were zero in 2003.

**RECORDS OF RELEASES 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  
IN ACCORDANCE WITH ARTICLE V(C) OF THE  
DECREE OF THE SUPREME COURT OF  
THE UNITED STATES IN  
ARIZONA v. CALIFORNIA ET AL. DATED MARCH 9, 1964**

The following tabulations for calendar year 2003 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 has tabulated quantities of such rejected water delivered to Mexico in excess of Treaty requirements and quantities delivered to storage. Reclamation is revising the methodology used to pro-rate individual contributions of rejected water delivered to Mexico in excess of Treaty requirements, therefore this line has been left blank, resulting in all rejected water reported as having been delivered to storage or other users.

Water ordered but not diverted was analyzed daily for each diverter as the absolute value of 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. The quantities of such deliveries are shown on the tabulation. Deliveries of water to Mexico in satisfaction of the Mexican Treaty are scheduled based on Mexico's daily orders. Releases from storage are scheduled in sufficient quantities, which when added to return flows, meet Mexico's daily orders. Deliveries of water to Mexico in satisfaction of the treaty, therefore, were considered to have been made entirely from releases from storage and from return flows scheduled for that purpose and not from water ordered but not diverted by other Colorado River water users. Therefore, the tabulations show no "water ordered but not diverted" as being delivered to Mexico in satisfaction of the treaty.

Currently, no daily orders are received for diversion from the Colorado River in Nevada so no sheet is included for Nevada. The storage capacity of Lake Mead is so large 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 have no significant effect on scheduling of daily operations of the 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 1/  
CALENDAR YEAR 2003  
STATE OF ARIZONA

WATER USER	6/15/2005												(ACRE-FEET)
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
CENTRAL ARIZONA PROJECT, DIVERSION AT LAKE HAVASU													
ORDERED BUT NOT DIVERTED	1,291	1,843	509	1,108	5,283	4,159	434	2,664	643	826	5,417	1,675	25,852
DELIVERED TO MEXICO IN													
SATISFACTION OF TREATY	0	0	0	0	0	0	0	0	0	0	0	0	0
DIVERTED BY OTHERS	0	0	0	0	0	0	0	0	0	0	0	0	0
DELIVERED TO STORAGE 2/	1,291	1,843	509	1,108	5,283	4,159	434	2,664	643	826	5,417	1,675	25,852
DELIVERED TO MEXICO IN													
EXCESS OF TREATY													0
COLO. RIVER INDIAN RESERVATION, DIVERSION AT HEADGATE ROCK													
ORDERED BUT NOT DIVERTED	4,019	349	16,812	129	0	422	0	0	6,377	383	204	32	28,727
DELIVERED TO MEXICO IN													
SATISFACTION OF TREATY													
DIVERTED BY OTHERS	4,019	349	16,812	58	0	103	0	0	6,377	238	12	2	27,970
DELIVERED TO STORAGE 2/	0	0	0	71	0	319	0	0	0	145	192	30	757
DELIVERED TO MEXICO IN													
EXCESS OF TREATY													0
NORTH GILA VALLEY I.D., DIVERSION AT IMPERIAL DAM													
ORDERED BUT NOT DIVERTED	621	0	2,866	2,366	3,045	3,630	4,237	1,767	849	3,140	4,356	2,325	29,202
DELIVERED TO MEXICO IN													
SATISFACTION OF TREATY													
DIVERTED BY OTHERS	621	0	2,866	1,404	3,045	1,734	198	1,767	849	899	972	502	14,857
DELIVERED TO STORAGE 2/	0	0	0	962	0	1,896	4,039	0	0	2,241	3,384	1,823	14,345
DELIVERED TO MEXICO IN													
EXCESS OF TREATY													0
STURGES (WARREN ACT), GILA PROJECT DISTRICTS													
DIVERSION AT IMPERIAL DAM													
ORDERED BUT NOT DIVERTED	0	0	0	0	0	0	0	0	0	0	0	0	0
DELIVERED TO MEXICO IN													
SATISFACTION OF TREATY													
DIVERTED BY OTHERS	0	0	0	0	0	0	0	0	0	0	0	0	0
DELIVERED TO STORAGE 2/	0	0	0	0	0	0	0	0	0	0	0	0	0
DELIVERED TO MEXICO IN													
EXCESS OF TREATY													0
WELLTON-MOHAWK I.& D. DISTRICT, DIVERSION AT IMPERIAL DAM													
ORDERED BUT NOT DIVERTED	3,939	6,060	2,834	3,011	3,864	4,231	30,125	2,313	6,476	6,988	6,365	3,957	80,163
DELIVERED TO MEXICO IN													
SATISFACTION OF TREATY													
DIVERTED BY OTHERS	3,939	6,060	2,834	605	3,864	1,817	1,376	2,313	6,476	1,363	591	508	31,746
DELIVERED TO STORAGE 2/	0	0	0	2,406	0	2,414	28,749	0	0	5,625	5,774	3,449	48,417
DELIVERED TO MEXICO IN													
EXCESS OF TREATY													0
YUMA IRRIGATION DISTRICT, DIVERSION AT IMPERIAL DAM													
ORDERED BUT NOT DIVERTED	48	940	250	424	226	363	859	1,386	1,214	290	1,049	317	7,366
DELIVERED TO MEXICO IN													
SATISFACTION OF TREATY													
DIVERTED BY OTHERS	48	940	250	141	226	153	8	1,386	1,214	73	87	169	4,695
DELIVERED TO STORAGE 2/	0	0	0	283	0	210	851	0	0	217	962	148	2,671
DELIVERED TO MEXICO IN													
EXCESS OF TREATY													0
YUMA MESA I.& D. DISTRICT, DIVERSION AT IMPERIAL DAM													
ORDERED BUT NOT DIVERTED	2,680	2,192	805	1,982	9,295	1,601	1,503	6,393	3,374	2,900	2,497	2,120	37,342
DELIVERED TO MEXICO IN													
SATISFACTION OF TREATY													

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 1/  
CALENDAR YEAR 2003  
STATE OF ARIZONA

6/15/2005		(ACRE-FEET)												
WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
	DIVERTED BY OTHERS	2,680	248	272	952	1,269	623	20	6,393	1,505	424	115	248	14,749
	DELIVERED TO STORAGE	0	1,944	533	1,030	8,026	978	1,483	0	1,869	2,476	2,382	1,872	22,593
	DELIVERED TO MEXICO IN EXCESS OF TREATY													0
UNIT "B" I. & D. DISTRICT, DIVERSION AT IMPERIAL DAM	ORDERED BUT NOT DIVERTED	212	545	944	290	627	0	319	791	819	668	545	805	6,565
	DELIVERED TO MEXICO IN SATISFACTION OF TREATY													
	DIVERTED BY OTHERS	63	545	944	139	627	0	16	190	819	157	54	256	3,810
	DELIVERED TO STORAGE	149	0	0	151	0	0	303	601	0	511	491	549	2,755
	DELIVERED TO MEXICO IN EXCESS OF TREATY													0
YUMA COUNTY WATER USERS ASSN., DIVERSION AT IMPERIAL DAM	ORDERED BUT NOT DIVERTED	3,503	6,873	5,768	5,768	6,254	2,773	3,447	2,664	2,130	3,537	4,695	3,598	51,010
	DELIVERED TO MEXICO IN SATISFACTION OF TREATY													
	DIVERTED BY OTHERS	3,503	1,581	5,768	2,547	6,254	1,807	891	2,664	2,130	1,293	708	1,678	30,824
	DELIVERED TO STORAGE	0	5,292	0	3,221	0	966	2,556	0	0	2,244	3,987	1,920	20,186
	DELIVERED TO MEXICO IN EXCESS OF TREATY													0
ARIZONA TOTALS	ORDERED BUT NOT DIVERTED	16,313	18,802	30,788	15,078	28,594	17,179	40,924	17,978	21,882	18,732	25,128	14,829	237,874
	DELIVERED TO MEXICO IN SATISFACTION OF TREATY													
	DIVERTED BY OTHERS	14,873	9,723	29,746	5,846	15,285	6,237	2,509	14,713	19,370	4,447	2,539	3,363	128,651
	DELIVERED TO STORAGE	1,440	9,079	1,042	9,232	13,309	10,942	38,415	3,265	2,512	14,285	22,589	11,466	137,576
	DELIVERED TO MEXICO IN EXCESS OF TREATY													0

1/ Reclamation is revising the methodology used to determine, by user, the amount of Water Ordered but not Diverted that is delivered to Mexico in excess of the 1944 Treaty requirements

2/ Stored in Lake Havasu or Senator Wash Reservoir for future use.

3/ See next section, which tabulates Deliveries to Mexico, for total amount of water delivered in Excess of Schedule.

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 1/  
CALENDAR YEAR 2003  
STATE OF CALIFORNIA  
6/15/2005

WATER USER	(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 DELIVERED TO MEXICO IN SATISFACTION OF TREATY	266	52	418	40	273	175	185	335	174	522	241	230	2,911
DELIVERED BY OTHERS DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	266	52	418	40	273	175	185	335	174	522	241	230	2,911
													0
PALO VERDE IRRIGATION DISTRICT, DIVERSION AT PALO VERDE DAM ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	8,025	2,380	198	2,707	3,773	2,460	3,721	694	456	260	9,668	1,190	35,532
DELIVERED BY OTHERS DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	8,025	2,380	198	535	3,773	1,655	986	694	456	101	1,855	591	21,249
	0	0	0	2,172	0	805	2,735	0	0	159	7,813	599	14,283
													0
YUMA PROJECT RESV. DIVISION, DIVERSION AT IMPERIAL DAM ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	4,741	3,929	1,315	1,886	3,453	2,555	4,550	3,533	538	1,133	13,537	5,423	46,593
DELIVERED BY OTHERS DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	4,741	3,929	1,315	710	3,453	1,482	1,208	3,533	538	448	3,574	3,156	28,087
	0	0	0	1,176	0	1,073	3,342	0	0	685	9,963	2,267	18,506
													0
IMPERIAL IRRIGATION DISTRICT, DIVERSION AT IMPERIAL DAM ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	5,518	20,051	12,805	11,681	0	8,662	9,783	11,094	9,299	10,927	5,990	3,293	109,103
DELIVERED BY OTHERS DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	5,518	20,051	2,751	3,921	0	4,651	2,386	11,094	9,299	3,273	609	1,135	64,688
	0	0	10,054	7,760	0	4,011	7,397	0	0	7,654	5,381	2,158	44,415
													0
COACHELLA VALLEY WATER DIST., DIVERSION AT IMPERIAL DAM ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	783	1,400	760	1,216	0	839	472	246	317	432	1,101	914	8,480
DELIVERED BY OTHERS DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	783	1,400	760	653	0	565	93	246	317	143	139	303	5,402
	0	0	0	563	0	274	379	0	0	289	962	611	3,078
													0

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 1/  
 CALENDAR YEAR 2003  
 STATE OF CALIFORNIA  
 6/15/2005

WATER USER	(ACRE-FEET)												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
CALIFORNIA TOTALS													
ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	19,333	27,812	15,496	17,530	7,499	14,691	18,711	15,902	10,784	13,274	30,537	11,050	202,619
DIVERTED BY OTHERS DELIVERED TO STORAGE	19,067	27,760	5,024	5,819	7,226	8,353	4,673	15,567	10,610	3,965	6,177	5,185	119,426
DELIVERED TO MEXICO IN EXCESS OF TREATY	266	52	10,472	11,711	273	6,338	14,038	335	174	9,309	24,360	5,865	83,193
													0

**Footnotes:**

- 1/ Reclamation is revising the methodology used to determine, by user, the amount of Water Ordered but not Diverted that is delivered to Mexico in excess of the 1944 Treaty requirements
- 2/ Stored in Lake Havasu or Senator Wash Reservoir for future use.
- 3/ See next section, which tabulates Deliveries to Mexico, for total amount of water delivered in excess of schedule.

**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 DECREE OF  
THE SUPREME COURT OF THE UNITED STATES  
IN ARIZONA v. CALIFORNIA ET AL. DATED MARCH 9, 1964**

CALENDAR YEAR 2003

06/15/05

(ACRE-FEET)

WATER USER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
DELIVERY AT NORTHERLY INTERNATIONAL BOUNDARY 1/	125,763	172,199	196,292	191,749	101,456	101,519	111,113	90,299	81,868	59,353	87,093	109,418	1,428,122
DELIVERY AT SOUTHERLY INTERNATIONAL BOUNDARY	8,718	9,292	10,718	12,965	10,902	9,971	11,064	10,577	10,968	13,240	13,365	11,262	133,042
DIVERSION FOR DELIVERY AT TIJUANA 2/	0	0	0	0	0	0	0	0	0	231	230	230	691
TOTAL DELIVERY TO MEXICO 3/	134,481	181,491	207,010	204,714	112,358	111,490	122,177	100,876	92,836	72,824	100,688	120,910	1,561,855
TO MEXICO AS SCHEDULED	130,285	154,940	199,770	193,325	108,570	111,372	121,513	99,884	90,358	71,655	98,904	119,424	1,500,000
TO MEXICO IN EXCESS OF SCHEDULE 4/	4,196	26,551	7,240	11,389	3,788	118	664	992	2,478	1,169	1,784	1,486	61,855
WATER BYPASSED PURSUANT TO MINUTE NO. 242 OF THE IBWC.	10,542	8,917	10,090	8,319	8,611	9,305	9,664	9,748	10,195	10,266	10,038	9,039	114,734

**Footnotes:**

1/ Values include wasteway deliveries to the river limitrophe in satisfaction of the 1944 Treaty requirements.

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

3/ Does not include Water Bypassed Pursuant to Minute No. 242 of the IBWC.

4/ Water that is lost to the United States through flows and/or releases into the Colorado River above Morelos Dam in excess of Lower Division States delivery orders and Mexican Treaty requirements.



**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 DECREE OF  
THE SUPREME COURT OF THE UNITED STATES IN  
ARIZONA v. CALIFORNIA ET AL. DATED MARCH 9, 1964**

DIVERSIONS FROM MAINSTREAM OF GILA AND SAN FRANCISCO RIVERS  
AND  
CONSUMPTIVE USE OF SUCH WATER FOR BENEFIT OF THE GILA NATIONAL FOREST  
CALENDAR YEAR 2003

6/15/2005

(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 DECREE OF THE  
SUPREME COURT OF THE UNITED STATES  
IN  
*ARIZONA V. CALIFORNIA ET. AL.***

The information contained in the following four sections of this report is supplemental to the records required under Article V of the 1964 Supreme Court Decree in Arizona v. California et.al. The information is provided here in an effort to provide a broader record of related activities occurring in the Lower Division States of the Colorado River Basin, in a single, concise report. The final section contains documents significant to the actions taken by Reclamation, Lower Division States and water user agencies.

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

The Bureau of Reclamation has developed and implemented an off-stream storage rule. This rule establishes the procedural framework for carrying out the interstate water banking program. The rule has been codified in 43 CFR Part 414 of the Code of Federal Regulations. Under this rule, authorized parties may enter into contractual agreements in which Colorado River water may be placed in off stream storage in one state for the future benefit of consuming entities in another state.

Following completion of the final regulation Reclamation, as the Secretary of the Interior's (Secretary's) authorized representative, entered into 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 primary purpose of the SIRA is to provide structure and guidance, pursuant to Article II (B) (6) of the Decree, for the actions to be taken by the Secretary in the release of Colorado River water to a specific entity in order to implement the interstate contractual distribution of water under the interstate banking program.

AWBA, SNWA, and CRCN entered into an Interstate Water Banking Agreement 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 for the benefit of SNWA.

A third key component of this interstate banking program is an Agreement for the Development of Intentionally Created Unused Apportionment (ICUA) between AWBA and the Central Arizona Water Conservation District (CAWCD). Under the ICUA agreement, CAWCD is obligated to accept water recovered by pumping groundwater, the rights to which are in the form of long-term storage credits. In turn, CAWCD reduces its diversion of Colorado River water through the Central Arizona Project by an equivalent amount. Arizona's forbearance

in its use of Colorado River water, through CAWCD's reduced diversions, develops the ICUA, which is then released by the Secretary for use by SNWA.

Colorado River water diverted in Arizona for purposes of delivery to Arizona contractors for storage by agreement with the AWBA, in order to establish Long-Term Storage Credits for parties in Nevada or California, is accounted for as a consumptive use in Arizona in the year such water was diverted from the Colorado River. Colorado River water diverted for the use by parties in Nevada or California, pursuant to a SIRA, based upon the creation of ICUA in Arizona in the same year of the diversion, is accounted as a consumptive use in Nevada or California. This consumptive use may be in addition to the basic apportionment of Nevada or California, because of the Secretary's determination that the Colorado River water so consumed would not be consumed in Arizona, pursuant to Article II (B)(6) of the Decree in *Arizona v. California*.

CAWCD stored Colorado River water underground in Arizona through a demonstration storage project in the early 1990s. CAWCD developed interstate underground storage (IUS) credits that were later assigned to MWD and SNWA. IUS credits were assigned to MWD, under an agreement between CAWCD and MWD. IUS credits assigned to SNWA were made available for recovery in the form of ICUA under the aforementioned SIRA.

The following tabulation lists Accumulated Long Term Storage Credits (ALTSC) verified by AWBA, provisional ALTSC accrued during the past year, Long Term Storage Credits recovered during the past year, and ALTSC held for an entity with a valid SIRA.

STORAGE AND INTERSTATE RELEASE AGREEMENT  
 COLORADO RIVER WATER STORED IN ARIZONA BY THE ARIZONA WATER BANKING AUTHORITY (AWBA) UNDER 43 CFR PART 414  
 FOR THE BENEFIT OF SPECIFIC ENTITIES WITH A VALID SIRA  
 AND  
 WATER DIVERTED AND BANKED IN ARIZONA BY THE CAWCD FOR AN ENTITY IN NEVADA OR CALIFORNIA WITH A VALID SIRA  
 CALENDAR YEAR 2003

		6/15/2005												(ACRE-FEET)	
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	EOY ALTSC	
<b>INTERSTATE BANKING SUMMARY</b>															
NEVADA	Verified BOY ALTSC	1/5/	111,100												
Water stored for the	Accrued LTSC in 03	2/	0	0	0	0	0	0	0	0	0	0	0	0	
Benefit of SNWA	Recovered LTSC in 03	3/	0	0	0	0	0	0	0	0	0	0	0	0	
	Total ALTSC	4/	111,100	0	0	0	0	0	0	0	0	0	0	111,100	
CALIFORNIA **	Verified BOY IUS Credit	8/	89,000												
	Accrued LTSC in 03	2/	0	0	0	0	0	0	0	0	0	0	0	0	
	Recovered LTSC in 03	3/	0	0	0	0	0	0	0	0	0	0	0	0	
	Total IUS Credits	4/	89,000	0	0	0	0	0	0	0	0	0	0	89,000	
STATES TOTAL	Verified BOY ALTSC	1/	200,100												
	Accrued LTSC in 03	2/	0	0	0	0	0	0	0	0	0	0	0	0	
	Recovered LTSC in 03	3/	0	0	0	0	0	0	0	0	0	0	0	0	
	Total ALTSC	4/	200,100	0	0	0	0	0	0	0	0	0	0	200,100	
<b>WATER DIVERTED AND BANKED IN ARIZONA</b>															
Water Diverted to Storage for Nevada	DIVERSION	6/	0	0	0	0	0	0	0	0	0	0	0	0	
Water Diverted to Storage for California	DIVERSION	7/	0	0	0	0	0	0	0	0	0	0	0	0	

\*\* At present there is not a Storage and Interstate Release Agreement between AWBA and a California entity, data from any future agreement will be presented here.

Footnotes:

- 1/ Accumulated Long-Term Storage Credits (ALTSC) verified by AWBA at the beginning of the reporting year (BOY) to be available for recovery by a specific entity with a valid SIRA. Requested Intentionally Created Unused Apportionment (ICUA) cannot exceed verified ALTSC.
- 2/ Provisional LTSC accrued during the reporting year for the benefit of a specific consuming entity in Nevada or California with a valid SIRA. Provisional LTSC have not been verified by AWBA and are not eligible for certification and recovery. Accruals of LTSC for the benefit of consuming entities in Nevada and California are limited to 200 KAF annually.
- 3/ ALTSC recovered by AWBA during the reporting year, represented by ICUA that AWBA certified to be available and the Secretary has released to a specific entity with a valid SIRA during the same year. The ALTSC is certified by AWBA when ICUA is requested prior to release by the Secretary. Total recovery of ALTSC can not exceed 100 KAF annually, due to a limitation defined under Arizona State law.
- 4/ Monthly sum of provisional and verified ALTSCs or IUS credits.
- 5/ Final verified accounting of Accumulated Long-Term Storage Credits from AWBA, confirmed that 66,000 af diverted to storage in December 2002 yielded 61,100 af of ALTSC.
- 6/ Water diverted and banked in Arizona for an entity within Nevada with a current SIRA. This diversion is reported in the Central Arizona Project record.
- 7/ Place holder for water diverted and banked in Arizona for an entity within California with a current SIRA, if in the future a SIRA is developed.
- 8/ Interstate Underground Storage (IUS) credits banked in CAWCD's name and assigned to MWD under CAWCD/MWD agreement of October 15, 1992.

## LOWER COLORADO WATER SUPPLY PROJECT

The Lower Colorado Water Supply Act passed by Congress on November 14, 1986 authorized and appropriated funding for the First Stage (5,000 acre-feet) of the Lower Colorado Water Supply Project (Project) as part of a water supply exchange program. Water pumped from the Project 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 Project 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 present or anticipated needs. Although some California water users have access to surplus water, the use of the Project wells is required when surplus water is unavailable or insufficient to meet the needs of the Project beneficiaries in California. Water for agricultural use is not authorized under the Act.

Currently, the Project consists of two wells (the First Stage) located along the unlined portion of the All-American Canal (AAC) in Imperial County, with a capacity of 5,000 acre-feet. The Water Supply Act authorizes construction of wells with a total annual capacity of 10,000 acre-feet. The existing First Stage wells are in a sand dunes area about 6 miles west of Pilot Knob and pump from an extensive mound of water that was formed by seepage from the AAC. Through a contract with Reclamation, Imperial Irrigation District is responsible for operating and maintaining the well field. The well field began operation on August 1, 2003.

Ground water from the wells is withdrawn and discharged into the AAC at salinity levels less than  $879 \text{ mg/l} \pm 30 \text{ mg/l}$  on an average annual flow-weighted basis. Reclamation entered into a contract to supply Project water to the City of Needles, for itself and its subcontractors, in annual amounts up to 3,500 acre-feet of the initial 5,000 acre-feet available. The contract with the City of Needles establishes a framework for the City of Needles to enter into subcontracts for delivery of Project water to non-Federal water users in San Bernardino, Riverside, and Imperial Counties. Reclamation also entered into a contract to supply Project water to the Bureau of Land Management (BLM) in annual amounts up to 1,150 acre-feet. BLM may divert this water at any of several diversion points on the Colorado River in California between River Miles 50.0 and 198.0.

In 2005 the final 350 acre-feet of the initial 5,000 acre-feet of constructed project capacity was committed for use at Federal facilities or on Federal lands adjacent to the Colorado River in California. The Colorado River Board of California (CRBC) approves each non-Federal applicant for a Project water supply and notifies Reclamation. Reclamation reviews the information submitted by CRBC and recommends the approved applicants to the City of Needles which then offers subcontracts.

Reclamation, the City of Needles, and other interested parties are evaluating the need for constructing the Second Stage, at non-Federal cost, to increase the Project well field capacity up to its authorized level of 10,000 acre-feet.

LOWER COLORADO WATER SUPPLY PROJECT  
SUMMARY OF USES OFFSET BY PUMPAGE FROM THE LOWER COLORADO WATER SUPPLY PROJECT WELLFIELD  
CALENDAR YEAR 2003

		(ACRE-FEET)													
		06/15/05													
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	
WATER SUPPLY WELLFIELD PUMPAGE	1/	non-Federal	31	39	53	58	70	85	93	90	70	59	42	41	732
		Federal	23	27	38	41	50	60	66	63	50	42	30	29	517
		Total	54	66	91	98	120	146	159	153	120	101	71	70	1249
LCWSP NON-FEDERAL CONTRACTORS	2/														
City of Needles (on its own behalf)		Diversions	20	25	34	37	45	55	60	58	45	38	27	27	471
		Consumptive Use	12	15	21	22	27	33	36	35	27	23	16	16	283
Havasu Water Company of California		Diversions	3	3	4	5	6	7	8	7	6	5	3	3	60
		Consumptive Use	2	2	3	3	3	4	5	4	3	3	2	2	36
Pacific Gas & Electric Company		Diversions	4	5	7	8	10	12	13	12	10	8	6	6	100
		Consumptive Use	4	5	7	8	10	12	13	12	10	8	6	6	100
Southern California Gas Company		Diversions	6	7	9	10	12	15	17	16	13	10	7	7	130
		Consumptive Use	6	7	9	10	12	15	17	16	13	10	7	7	130
Needles Other Subcontractors		Diversions	7	8	11	12	15	18	19	19	15	12	9	9	153
		Consumptive Use	4	5	7	7	9	11	12	11	9	7	5	5	92
Total non-Federal Subcontractors:		Diversions	39	49	67	72	88	107	116	112	88	74	52	51	914
		Consumptive Use	27	34	47	50	62	75	82	78	62	52	37	36	641
Diff: Non-Federal Use and Wellfield Pumping	3/		4	5	7	7	9	11	12	11	9	7	5	5	91
Previous Year Pumpage Balance	4/														
Over Pumpage Carried Over to Following Year	5/		4	5	7	7	9	11	12	11	9	7	5	5	91
Under Pumpage to be Paid Back in Following Year	6/		0	0	0	0	0	0	0	0	0	0	0	0	0
LCWSP FEDERAL CONTRACTOR															
U.S. Bureau of Land Management	7/	Diversions	31	30	34	34	46	57	49	49	49	34	37	29	480
Total of BLM Administered Water		Returns	14	13	15	15	21	25	22	22	22	15	17	13	214
		Consumptive Use	17	16	19	19	26	32	27	27	27	19	21	16	265
U.S. Bureau of Reclamation - Parker Dam and Government Camp		Diversions	8	6	6	4	16	18	24	19	17	18	10	11	156
		Returns	2	2	2	2	10	10	10	10	10	1	1	1	62
		Consumptive Use	6	4	4	2	6	8	14	9	7	16	9	9	94
Difference: Federal Use and Wellfield Pumping	3/		0	6	14	20	19	21	24	27	16	6	0	4	158
Previous Year Pumpage Balance	4/		0	0	0	0	0	0	0	0	0	0	0	0	0
Over Pumpage Carried Over to Following Year	5/		0	6	14	20	19	21	24	27	16	6	0	4	158
Under Pumpage to be Paid Back in Following Year	6/		0	0	0	0	0	0	0	0	0	0	0	0	0

Footnotes:

1/ Non-Colorado River water pumped from the Lower Colorado Water Supply Project (LCWSP) wellfield and delivered into the AAC for use by IID  
Pumpage reported separately for Federal and non-Federal contractors

Note: each subcontractor has a unique unmeasured return factor

2/ LCWSP non-Federal Subcontractors - Colorado River water use exchanged with LCWSP wellfield pumpage

3/ Difference between the consumptive use of Colorado River water diverted and the amount of water pumped by the LCWSP wellfield

4/ Balance from previous year. Over pumpage must be used, under pumpage must be paid back during present accounting year.

5/ Amount by which LCWSP wellfield pumping exceeded Colorado River use by LCWSP contractors. This amount is available to LCWSP contractors the next year.

6/ Amount by which Colorado River water use by LCWSP contractors exceeded LCWSP wellfield pumping.

This amount must be paid back in the form of additional wellfield pumping during the next year.

7/ Portion of the LCWSP allocated to the BLM - Colorado River water use exchanged with LCWSP wellfield pumpage

## **CONSERVATION, TRANSFER, AND EXCHANGE AGREEMENTS BY STATE**

Colorado River water apportioned to the Lower Division 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. New and some existing water demands within Lower Division states must be met through a combination of conservation, transfers, exchanges, or new water sources to augment the limited supply of Colorado River water.

In California, several California water agencies (Imperial Irrigation District, Coachella Valley Water District, and The Metropolitan Water District of Southern California) entered into a Quantification Settlement Agreement (QSA) on October 10, 2003, to resolve longstanding disputes regarding the priority, use, and transfer of Colorado River water within California. The signatory agencies concurrently entered into a series of supplemental agreements that collectively implement the provisions of the QSA through a variety of methods, which include various water transfers, water exchanges, and water conservation measures.

The QSA will remain in effect for up to 75 years. The Secretary of the Interior (Secretary), in her Record of Decision dated October 10, 2003, signed the Colorado River Water Delivery Agreement. This agreement specifies the Federal actions that are necessary to implement the QSA and establishes the Secretary's approval of the changes in the amount and/or location of the delivery of approximately 400 thousand acre-feet per year of Colorado River water during the term the QSA will be in effect.

### **Description of Included Tables**

The first set of tables on the following pages list transfers authorized within the states of Arizona, Nevada and California. There were no transfers of Colorado River water within Arizona and Nevada during calendar year 2003. Within California, in addition to the transfers required under the QSA, the Coachella Valley Water District (CVWD) entered into an agreement with the Palo Verde Irrigation District for the fallowing of irrigated land in the Palo Verde Valley to permit a reduction in Colorado River Water use by PVID, permitting an equivalent amount of water to be made available to CVWD.

The three pages titled "Transfers and Water Made Available by Extraordinary Conservation" tabulate transfers which occurred in 2003, by state.

The table titled Exhibit B identifies use quantifications and transfers authorized under the QSA. The two page table titled "Tabulation of Net Agriculture and Water Use Approval Amounts after Applying the Colorado River Water Delivery Agreement and LCWSP" tabulates net agricultural use to compare against the Interim Surplus Guidelines (ISG) Benchmark and demonstrates the calculation used to develop water use approvals for IID, CVWD and MWD under the CRWDA. The comparison between net California agriculture is shown on the first page and the calculation for water approvals is shown on the second.

TRANSFERS AND WATER MADE AVAILABLE BY EXTRAORDINARY CONSERVATION  
 CALENDAR YEAR 2003  
 STATE OF ARIZONA

06/15/05

(ACRE-FEET)

TRANSFER TITLE OR PARTICIPATING AGENCIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
--	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-------

No transfers reported to USBR

Footnotes:

No footnotes for this calendar year.



TRANSFERS AND WATER MADE AVAILABLE BY EXTRAORDINARY CONSERVATION  
 CALENDAR YEAR 2003  
 STATE OF NEVADA

06/15/05

(ACRE-FEET)

TRANSFER TITLE OR PARTICIPATING AGENCIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL

No transfers reported to USBR

Footnotes:

No footnotes for this calendar year.

TRANSFERS AND WATER MADE AVAILABLE BY EXTRAORDINARY CONSERVATION  
CALENDAR YEAR 2003  
STATE OF CALIFORNIA

TRANSFER TITLE OR PARTICIPATING AGENCIES	06/15/05	(ACRE-FEET)												TOTAL
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
WATER CONSERVATION PROGRAM IMPERIAL I. D./METROPOLITAN W. D. CONSERVED WATER	1/	8,761	8,761	8,761	8,761	8,761	8,761	8,761	8,761	8,761	8,761	8,761	8,759	105,130
LAND FALLOWING IN PVID FOR CVWD	2/	0	0	0	0	0	3,519	11,988	11,336	8,407	2,888	107	2,345	40,590
IID CONSERVATION FOR EXCHANGE WITH SDCWA	3/	0	0	0	0	0	0	0	0	0	0	0	3,114	3,114
MWD EXCHANGE WITH SDCWA	4/	0	0	0	0	0	0	0	0	0	0	0	10,000	10,000

Footnotes:

1/ 1988 IID/MWD Water Conservation Program conserved water made available by Imperial I.D. for diversion in current year by MWD.

Reclamation has made the assumption that the annual amount made available, were made available in equal monthly amounts

2/ June 1, through December 20, 2003 program under which farmers in PVID agreed to fallow land to make water available for CVWD. Tabulation lists the amount of water which was scheduled to be conserved by PVID

3/ The CRWDA specified required conservation by IID for transfer to SDCWA. The 2003 CRWDA schedule called for 10,000af of conservation by IID, however due to the end of year signing of the agreement

only 3,114af were conserved under the Emergency Fallowing Program. MWD actually delivered 10,000af to SDCWA. The amount tabulated here is a USBR value and is under dispute by IID

Amount of water shown as saved by 13-month IID Emergency Fallowing Program is based on assumption that 1/13 of the 38,641af conserved (plus canal loss), was conserved in December 2003

4/ Water required to be conserved by IID for transfer to SDCWA in 2003, and the amount of water actually exchanged by MWD and SDCWA in 2003.

**EXHIBIT B  
QUANTIFICATION AND TRANSFERS<sup>1</sup>**  
In Thousands of Acre-feet

Column:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
		Priority 1, 2 and 3b	IID Priority 3a Reductions										CVWD Priority 3a						Total Priority 1-3 Use Plus PPR Consumptive Use (sum of columns 2+13+20 plus 11+16)	ISG Benchmarks	Annual Targets		
Calendar Year			IID Priority 3a Quantified Amount	<sup>3</sup> IID Reduction: MWD 1988 Agreement Transfer	IID Reduction: SDCWA Transfer	<sup>4</sup> IID Reduction: AAC Lining IID, SDCWA & SLR	<sup>5,6</sup> IID Reduction: SDCWA Mitigation Transfer	<sup>7</sup> Intra-Priority 3 Transfer IID/CVWD	<sup>6</sup> IID Reduction: Transfer with Salton Sea Restoration	<sup>8</sup> IID Reduction: Conditional ISG Backfill	<sup>9</sup> IID Reduction: Misc. PPRs	IID Reductions: Total Amount (sum of columns 4 through 11)	<sup>10</sup> IID Net Consumptive Use Amount (difference between column 3 and column 12)	CVWD Priority 3a Quantified Amount	<sup>4</sup> CVWD Reduction: CC Lining, SDCWA & SLR	<sup>9</sup> CVWD Reduction: Misc. PPRs	<sup>11</sup> CVWD Reductions: Total Amount (sum of columns 15 + 16)	<sup>7</sup> Intra-Priority 3 Transfer IID/CVWD	<sup>3</sup> Intra-Priority 3 Transfer MWD/CVWD	CVWD Net Consumptive Use Amount (columns 14 - 17 plus columns 18 + 19)			
1	2003	420	3,100	110	10	0	5	0	0	0	11.5	136.5	2,963.5	330	0	3	3	0	20	347	3,745.0	3,740	3,740
2	2004	420	3,100	110	20	0	10	0	0	0	11.5	151.5	2,948.5	330	0	3	3	0	20	347	3,730.0		3,707
3	2005	420	3,100	110	30	0	15	0	0	0	11.5	166.5	2,933.5	330	0	3	3	0	20	347	3,715.0		3,674
4	2006	420	3,100	110	40	0	20	0	0	9	11.5	190.5	2,909.5	330	26	3	29	0	20	321	3,665.0	3,640	3,640
5	2007	420	3,100	110	50	0	25	0	0	0	11.5	196.5	2,903.5	330	26	3	29	0	20	321	3,659.0		3,603
6	2008	420	3,100	110	50	67.7	25	4	20	0	11.5	288.2	2,811.8	330	26	3	29	4	20	325	3,571.3		3,566
7	2009	420	3,100	110	60	67.7	30	8	40	0	11.5	327.2	2,772.8	330	26	3	29	8	20	329	3,536.3	3,530	3,530
8	2010	420	3,100	110	70	67.7	35	12	60	0	11.5	366.2	2,733.8	330	26	3	29	12	20	333	3,501.3		3,510
9	2011	420	3,100	110	80	67.7	40	16	80	0	11.5	405.2	2,694.8	330	26	3	29	16	20	337	3,466.3		3,490
10	2012	420	3,100	110	90	67.7	45	21	100	0	11.5	445.2	2,654.8	330	26	3	29	21	20	342	3,431.3	3,470	3,470
11	2013	420	3,100	110	100	67.7	70	26	100	0	11.5	485.2	2,614.8	330	26	3	29	26	20	347	3,396.3		3,462
12	2014	420	3,100	110	100	67.7	90	31	100	0	11.5	510.2	2,589.8	330	26	3	29	31	20	352	3,376.3		3,455
13	2015	420	3,100	110	100	67.7	110	36	100	0	11.5	535.2	2,564.8	330	26	3	29	36	20	357	3,356.3		3,448
14	2016	420	3,100	110	100	67.7	130	41	100	0	11.5	560.2	2,539.8	330	26	3	29	41	20	362	3,336.3		3,440
15	2017	420	3,100	110	100	67.7	150	45	91	0	11.5	575.2	2,524.8	330	26	3	29	45	20	366	3,325.3		
16	2018	420	3,100	110	130	67.7	0	63	0	0	11.5	382.2	2,717.8	330	26	3	29	63	20	384	3,536.3		
17	2019	420	3,100	110	160	67.7	0	68	0	0	11.5	417.2	2,682.8	330	26	3	29	68	20	389	3,506.3		
18	2020	420	3,100	110	193	67.7	0	73	0	0	11.5	454.7	2,645.3	330	26	3	29	73	20	394	3,473.8		
19	2021	420	3,100	110	205	67.7	0	78	0	0	11.5	472.2	2,627.8	330	26	3	29	78	20	399	3,461.3		
20	2022	420	3,100	110	203	67.7	0	83	0	0	11.5	474.7	2,625.3	330	26	3	29	83	20	404	3,463.8		
21	2023	420	3,100	110	200	67.7	0	88	0	0	11.5	477.2	2,622.8	330	26	3	29	88	20	409	3,466.3		
22	2024	420	3,100	110	200	67.7	0	93	0	0	11.5	482.2	2,617.8	330	26	3	29	93	20	414	3,466.3		
23	2025	420	3,100	110	200	67.7	0	98	0	0	11.5	487.2	2,612.8	330	26	3	29	98	20	419	3,466.3		
24	2026	420	3,100	110	200	67.7	0	103	0	0	11.5	492.2	2,607.8	330	26	3	29	103	20	424	3,466.3		
25	2027	420	3,100	110	200	67.7	0	103	0	0	11.5	492.2	2,607.8	330	26	3	29	103	20	424	3,466.3		
26	2028	420	3,100	110	200	67.7	0	103	0	0	11.5	492.2	2,607.8	330	26	3	29	103	20	424	3,466.3		
	2029-2037	420	3,100	110	200	67.7	0	103	0	0	11.5	492.2	2,607.8	330	26	3	29	103	20	424	3,466.3		
	2038-2047	420	3,100	110	200	67.7	0	103	0	0	11.5	492.2	2,607.8	330	26	3	29	103	20	424	3,466.3		
	2048-2077	420	3,100	110	200	67.7	0	100	0	0	11.5	489.2	2,610.8	330	26	3	29	100	20	421	3,466.3		

<sup>1</sup> Exhibit B is independent of increases and reductions as allowed under the Inadvertent Overrun and Payback Policy.  
<sup>2</sup> Any higher use covered by MWD, any lesser use will produce water for MWD and help satisfy ISG Benchmarks and Annual Targets.  
<sup>3</sup> MWD.  
<sup>4</sup> Ramp-up amounts may vary based upon construction progress, and final amounts will be determined by the Secretary pursuant to the Allocation Agreement.  
<sup>5</sup> Any amount identified in Exhibit B for mitigation purposes will only be from non-Colorado River sources and these amounts may be provided by exchange for Colorado River water.  
<sup>6</sup> consent. After 2006, these quantities will count toward the ISG Benchmarks (column 22) and Annual Targets (column 23) only if and to the extent that water is transferred into the Colorado River Aqueduct for use by MWD and/or SDCWA.  
<sup>7</sup> MWD can acquire if CVWD declines the water. Any water obtained by MWD will be counted as additional agricultural reduction to help satisfy the ISG Benchmarks and Annual Targets. MWD will provide CVWD 50,000 AFY of the 100,000 AFY starting in year 46.  
<sup>8</sup> the unused amounts from 2006 and 2009 in 2012. In addition to the maximum transfer amounts IID has also committed that no more than 72,500 AF of reduced inflow to the Salton Sea would result from these additional transfers.  
<sup>9</sup> Up to the amount shown, as agreed upon reduction to IID or CVWD to cover collectively the sum of individual Miscellaneous PPRs, federal reserved rights and decreed rights. This is a reduction that counts towards ISG Benchmarks and Annual Targets.  
<sup>10</sup> For purposes of Subparagraph 8(b)(2)(i) and (ii) and 8(c)(1) and (4) the Secretary will take into account: (i) the satisfaction of necessary conditions to certain transfers (columns 7 and 9) not within IID's control; (ii) the amounts of conserved water as determined, where such amounts may vary (columns 4, 6, 9 and 10); and (iii) with respect to column 7, reductions by IID will be considered in determining IID's compliance regardless of whether the conserved water is diverted into the Colorado River Aqueduct.  
<sup>11</sup> For purposes of Subparagraph 8(c)(1) and (4) the Secretary will take into account: (i) the satisfaction of necessary conditions to certain transfers (columns 15 and 16) not within CVWD's control; and (ii) the amounts of conserved water as determined, where such amounts may vary (column 15).  
<sup>12</sup> All-consumptive use of priorities 1 through 3 plus 14,500 AF of PPRs must be within 25,000 AF of the amount stated.  
<sup>13</sup> Assumes SDCWA does not elect termination in year 35.  
<sup>14</sup> Assumes SDCWA and IID mutually consent to renewal term of 30 years.  
**Notes:**  
 Substitute transfers can be made provided the total volume of water to be transferred remains equal or greater than amounts shown consistent with applicable federal approvals.  
 The shaded columns represent amounts of water that may vary.  
<sup>15</sup> Water made available to CVWD through voluntary land following within PVID.

**Tabulation of Net California Agriculture and Water Use Approval Amounts After Applying the Colorado River Water Delivery Agreement and LCWSF**

**Comparison of Net California Agricultural Use to the 2003 ISG Benchmark**

<b>2003 Use by California Agriculture To Calculate ISG Benchmark Use <sup>1</sup></b>	<b>Consumptive Use</b>
Palo Verde Irrigation District	379,650
Yuma Project Reservation Division	45,053
YI Pumpers <sup>2</sup>	6,959
Priorities 1, 2, 3b	431,662
Coachella Valley Water District	296,808
Imperial Irrigation District	2,978,223
Total Cal Ag	3,706,693
MWD Adjustments for Priority 1, 2, and 3b use	(11,662)
IID, CVWD 2001, 2002 Payback	0
IID and CVWD reductions for PPRs	14,500
2003 Use by California Agriculture (net Cal. Ag.)	3,709,531

MWD's reductions for priorities 1, 2, and 3b count toward meeting the ISG benchmark.

**ISG Benchmark Comparison**

2003 ISG Benchmark	3,740,000
2003 Use by California Agriculture (net Cal. Ag.)	3,709,531
Total Benchmark Underrun	30,469

**Priority 1, 2, and 3b Use Below or (Above) 420,000 AF**

Palo Verde Irrigation District	379,650
Yuma Project Reservation Division	45,053
Yuma Island	6,959
MWD Adjustments for Priority 1, 2, and 3b use	(11,662)

**Calculation of Final 2003 Water Approval Amounts Using The Colorado River Water Delivery Agreement and LCWSP**

	Exhibit B Column No	Conservation or Transfer Obligations	
<b>Imperial Irrigation District</b>			
Priority 3a Use Cap	3	3,100,000	
IID-MWD Water Conservation Agreement (198)	4	(105,130)	
Transfer to SDCWA	5	(10,000)	
Salinity management water	7	0	5000af obligation approved for carry over to 2004.
Indian and Misc. PPRs	11	(11,500)	
Inflow from LCWSP		(910)	Colorado River CU reduced for water pumped from the LCWSP Wellfield.
Approved IID Use <sup>3</sup>		2,972,460	Water Approval by letter of 11/03/03 from USBR Regional Director to IID.
Adjustment for actual pumping of the LCWSP		339	Actual pumpage from the LCWSP wellfield was 1,249 in 2003.
Final approval amount		2,972,121	Based on actual, end of year conditions.
<b>Coachella Valley Water District</b>			
Priority 3a Use Cap	14	330,000	
Indian and Misc. PPRs	16	(3,000)	
IID-MWD Water Conservation Agreement (198)	19	20,000	CVWD did not use this amount in 2003, it became available to MWD.
Approved CVWD Use <sup>3</sup>		347,000	Water Approval by letter of 11/03/03 from USBR Regional Director to CVWD.
Actual CVWD Use		296,808	
Total CVWD Underuse		50,192	This amount becomes available to lower priority users
<b>Metropolitan Water District</b>			
Priority 4 Use Cap		550,000	
IID-MWD Water Conservation Agreement (198)	4	105,130	
CVWD-MWD QSA transfer	4	(20,000)	CVWD did not use this amount in 2003, it became available to MWD.
IID Transfer to SDCWA	5	10,000	
Indian and Misc. PPRs		(2,758)	
Adjustments for Priority 1, 2, and 3b use		(11,662)	
Unused priority 3a, plus unused transfer water <sup>4</sup>		50,192	
Approved MWD Use <sup>3</sup>		680,902	Based on actual, end of year conditions.

General note: The above figures are based on Exhibit B of the Colorado River Water Delivery Agreement, executed on October 10, 2003 and the Lower Colorado Water Supply Project (LCWSP).

Footnotes:

- 1) Interim Surplus Guidelines (ISG) Benchmark. During benchmark years, the benchmark amount is compared to net California agricultural use. Footnote 12 of Exhibit C (shown on previous page) defines net California agricultural use as all consumptive use of priorities 1 through 3 plus 14,500 af of PPR use.
- 2) Incorporation of Yuma Island Pumper's use within Priority 2 does not represent either a final approval of this use by Reclamation or a final appropriate Decree accounting for this use; and is not an admission by any Colorado River contractor as to the legality of this use or diversion of Colorado River water.
- 3) Calculated approval of consumptive use amounts following execution of the Colorado River Water Delivery Agreement (CRWDA) on Oct. 10, 2003. IID and CVWD approvals are based on the conservation and transfer obligations outlined in Exhibit B of the CRWDA. The IID-MWD Agreement is a variable amount determined each year, CVWD may take 20kaf of this amount each year. MWD approvals are based on the above plus conditions existing at the time of approval, including forecast use by senior users and projected savings from conservation.
- 4) 12,077 af of this amount would be available to CVWD in 2007 and 12,077 af of this amount would be available to CVWD in 2008 (sum 24,154) by MWD forbearance pursuant to 12/23/03 letter agreement sent to CVWD for acceptance and agreement.

## **DOCUMENTS AND LETTERS SIGNIFICANT TO THE DELIVERY OF AND ACCOUNTING FOR THE USE OF COLORADO RIVER WATER IN CY 2003**

These documents are provided to give the reader an opportunity to read the agreements, regulations and operating plans which directed the U.S. Bureau of Reclamation in the delivery of Colorado River Water during 2003.

The document titles contained in the following list are located on a compact disk (CD) in the pocket provided on the back cover of this report. These electronically filed documents are in Adobe (PDF) format. Following each title below is a brief description of each document's contents and a file name where that document may be found on the CD. The file names are printed exactly as they appear on the CD however, due to the large file size of some reports, the CD may contain only the summary. The acronyms used below are defined in the Acronyms and Abbreviated Terms at the beginning of this report. Those seeking additional information are encouraged to log on to the following website where the entire file(s) can be viewed and the complete PDF file can be downloaded: [www.usbr.gov/lc/region/g4000/wtracct.html](http://www.usbr.gov/lc/region/g4000/wtracct.html).

### **Reports:**

The 2003 Annual Operating Plan (AOP) Executive Summary

- Outlines the criteria under which the Colorado River will be operated during CY 2003 given current and anticipated conditions e.g. surplus, normal or shortage.
- CD file name: 2003AOP\_Executive\_summary

### **Agreements:**

The Colorado River Water Delivery Agreement: Federal Quantification Settlement Agreement (QSA)

- Water delivery agreement between the United States, IID, CVWD, MWD and SDCWA. This agreement quantifies the consumptive use allowances for the aforementioned water users. The document also addresses terms and condition of water deliveries.
- CD file name: CRWDA\_10-20-03

The Storage and Interstate Release Agreement (SIRA)

- Water Banking Agreement between AWBA, SNWA and the CRC of NV. This agreement allows SNWA to acquire long-term water storage credits that are to be held by agreement with AWBA. These credits can be exchanged at a latter date with Colorado River water made available when users in Arizona develop ICUA.
- CD file name: Storage\_interstate\_release\_agreement

**DOCUMENTS AND LETTERS SIGNIFICANT TO THE DELIVERY OF AND  
ACCOUNTING FOR THE USE  
OF COLORADO RIVER WATER IN CY 2003 (cont.)**

**Letters:**

SNWA and CRCN to Reclamation, dated May 19, 2003.

- Request to update the Las Vegas Wash return flow methodology.
- CD file name: LV\_return\_flow\_methodology

Reclamation to SNWA and CRCN, dated July 29, 2003.

- Approval of updated Las Vegas Wash Return Flow Methodology.
- CD file name: LV\_methodology7-29-03

Secretary of the Interior to Regional Director, dated December 12, 2002.

- Assigns the Regional Director's water schedule approval authority to the Assistant Secretary for Water and Science.
- CD file name: Reassigning\_of\_authority12-27-02

CVWD to Reclamation, dated June 16, 2003.

- Request for Declaration of Hardship Conditions. Granting this request would allow for the delivery of water normally assigned to PVID to be delivered to CVWD in accordance with a following agreement between PVID and CVWD.
- CD file name: Request\_for\_hardship\_conditions6-16-03

CVWD to Reclamation, dated November 14, 2003.

- Request that unused PVID to CVWD transfer water be transferred to MWD.
- CD file name: 2003CVWD\_MWD\_request11-14-03

MWD to Reclamation, dated November 18, 2003

- Revision of 2003 water order and request for Nevada and Arizona's unused 2003 water apportionment.
- CD file name: 2003revision\_unused\_apportionment11-18-03

**Memo for record:**

City of Needles, California, dated May 6, 2005

- Accounting for water use by the City of Needles, CA
- CD File name: City\_of\_Needles\_acctg5-6-05