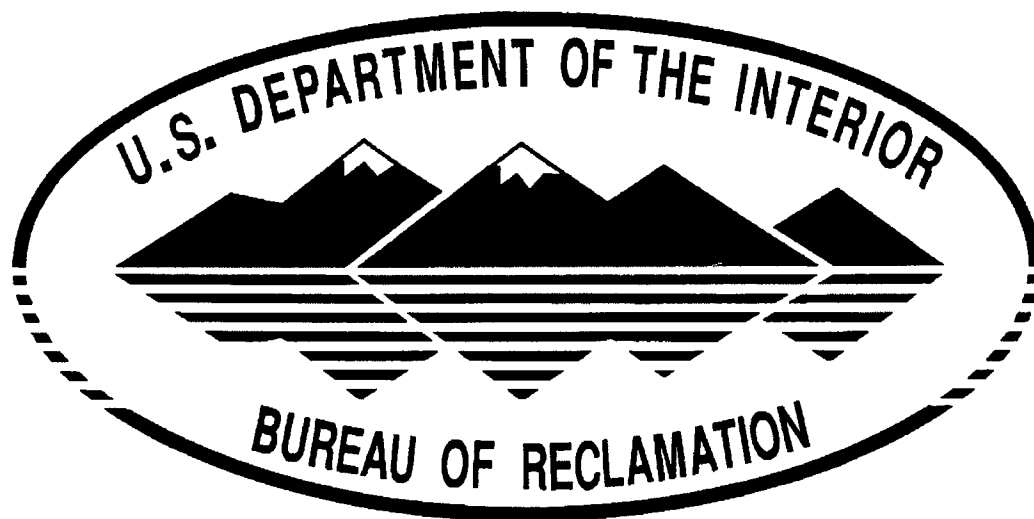


COMPILATION OF RECORDS IN  
ACCORDANCE WITH ARTICLE V OF THE  
DECREE OF THE SUPREME COURT OF  
THE UNITED STATES IN  
ARIZONA v. CALIFORNIA ET AL. DATED MARCH 9, 1964

CALENDAR YEAR 2002



Bureau of Reclamation  
Boulder Canyon Operations Office  
Lower Colorado Region  
Boulder City, Nevada

COMPILATION OF RECORDS IN  
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CALENDAR YEAR 2002

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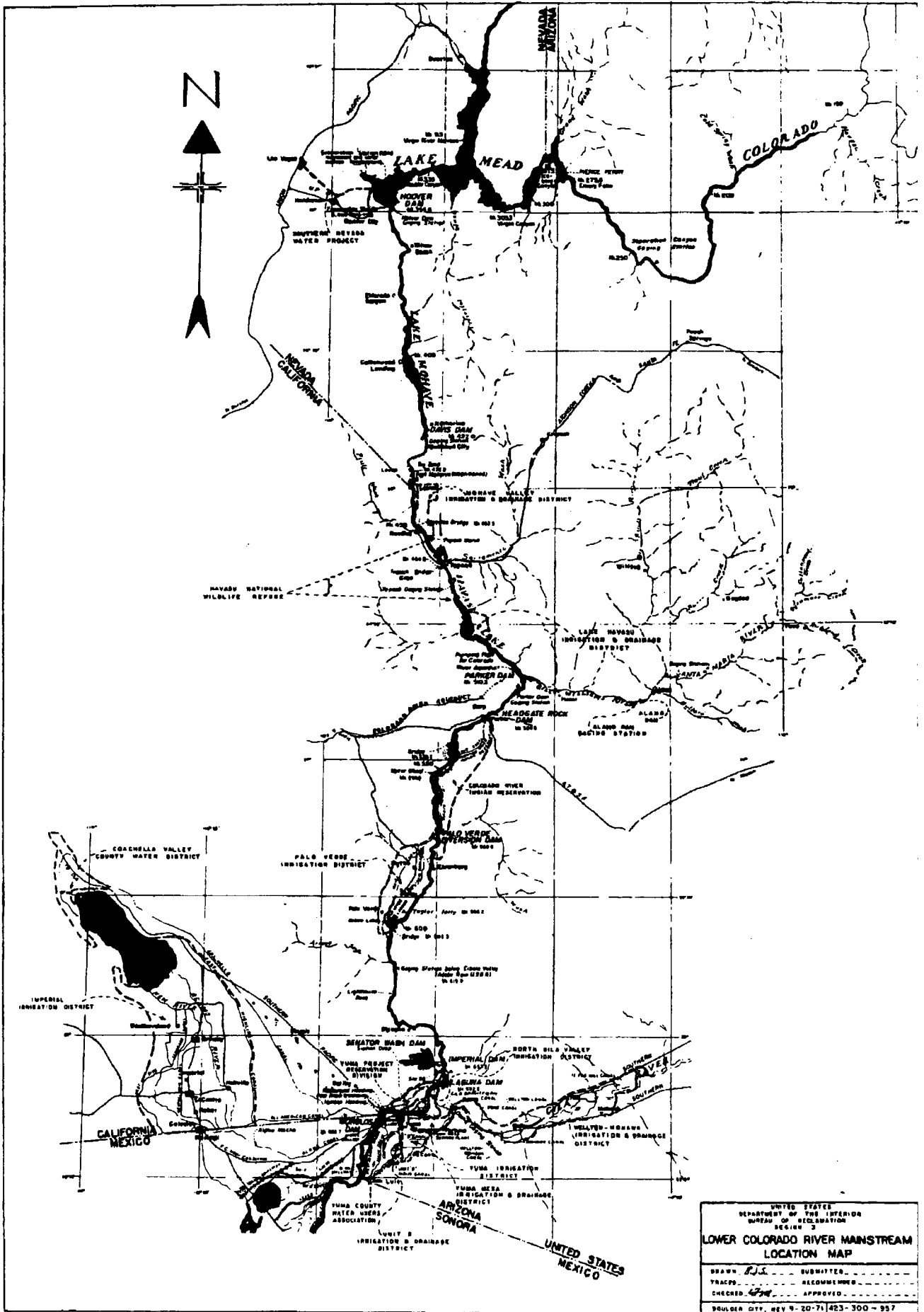
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UNITED STATES  
 DEPARTMENT OF THE INTERIOR  
 BUREAU OF RECLAMATION  
 SECTION 2  
**LOWER COLORADO RIVER MAINSTREAM  
 LOCATION MAP**  
 DRAWN *B.S.* SUBMITTED  
 TRACED *W.P.* RECOMMENDED  
 CHECKED *W.P.* APPROVED  
 BOULDER CITY, NEV 9-20-71 423-300-957

S U M M A R Y  
 CONSUMPTIVE USE BY STATE, UNMEASURED RETURNS ESTIMATE, AND RESERVOIR CONTENTS  
 CALENDAR YEAR 2002

	05/12/2003													TOTAL
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
(THOUSAND ACRE-FEET)														
<b>LOWER BASIN STATES WATER USE SUMMARY:</b>														
ARIZONA	209.8	247.4	322.2	333.6	356.3	320.3	256.7	238.7	189.7	149.7	179.3	165.6	2969.2	
CALIFORNIA	289.1	340.0	459.3	537.2	576.4	555.1	615.4	567.6	444.9	368.9	335.8	275.9	5365.6	
NEVADA	13.1	12.3	21.0	30.4	36.5	35.3	39.9	40.7	33.4	29.9	20.4	13.6	326.7	
SUBTOTAL	512.1	599.7	802.4	901.2	969.2	910.7	912.0	847.1	668.0	548.5	535.5	455.1	8661.6	
UNMEASURED RETURNS <sup>1/</sup>	13.6	10.9	18.5	20.0	24.5	29.7	32.4	31.2	24.5	20.5	14.6	14.4	254.7	
TOTAL CONSUMPTIVE USE, LOWER BASIN STATES <sup>2/</sup>	498.5	588.8	783.9	881.1	944.8	881.0	879.6	815.9	643.5	528.0	520.9	440.7	8406.8	
TOTAL DELIVERIES TO MEXICO	143.3	159.5	215.5	207.3	121.2	122.9	127.5	105.2	112.5	79.2	103.7	125.4	1623.2	
WATER BYPASSED PURSUANT TO MINUTE 242	13.7	9.4	2.1	8.9	9.5	9.1	10.1	9.3	9.3	13.2	14.6	12.6	121.7	
TOTAL CONSUMPTIVE USE, LOWER BASIN STATES & MEXICO <sup>2/3/</sup>	655.5	757.7	1001.5	1097.4	1075.4	1013.0	1017.2	930.5	765.3	620.4	639.2	578.8	10151.7	
<b>END OF MONTH ACTIVE CONTENTS:</b>														
	DEC 02													CY CHANGE
LAKE POWELL	17996	17507	17201	16927	16705	16536	16111	15333	14569	14468	14270	14111	13774	-4222
LAKE MEAD	19795	19870	19682	19112	18539	17915	17533	17343	17209	17093	17032	16850	16718	-3077
LAKE MOHAVE	1655	1674	1643	1709	1682	1736	1720	1695	1698	1577	1486	1516	1679	24
LAKE HAVASU	552	550	561	590	584	595	583	561	560	565	584	559	547	-5
TOTAL LOWER BASIN STORAGE	22002	22093	21886	21411	20805	20246	19836	19600	19467	19234	19102	18925	18944	-3059
<b>CONSUMPTIVE USE ABOVE HOOVER DAM:</b>														
ARIZONA	0.006	0.006	0.008	0.014	0.014	0.018	0.018	0.021	0.017	0.012	0.008	0.006	0.15	
NEVADA	11.774	10.946	19.779	29.273	34.780	33.186	37.753	38.566	31.562	28.339	19.044	12.235	307.24	
TOTAL CONSUMPTIVE USE ABOVE HOOVER DAM	11.781	10.951	19.788	29.287	34.794	33.203	37.771	38.587	31.579	28.352	19.052	12.241	307.38	
<b>CONSUMPTIVE USE BELOW PARKER DAM:</b>														
ARIZONA	46.2	63.1	113.7	137.7	157.2	137.7	146.5	129.1	101.8	99.5	64.1	32.7	1229.3	
CALIFORNIA	181.3	241.1	348.9	430.3	465.3	446.8	504.6	453.9	336.7	309.2	226.0	165.4	4109.7	
MEXICO <sup>4/</sup>	157.0	168.9	217.6	216.2	130.7	132.0	137.6	114.5	121.8	92.4	118.3	138.0	1744.9	
TOTAL CONSUMPTIVE USE BELOW PARKER DAM	384.5	473.1	680.3	784.2	753.3	716.5	788.7	697.5	560.2	501.1	408.4	336.1	7083.9	

1/ Estimated total unmeasured return of 254,737 acre-feet reduces States use. Estimated unmeasured return by state is:

163,244 af in Arizona, 90,002 af in California, and 1,491 af in Nevada.

2/ The term 'CONSUMPTIVE USE' as used here means diversions from the mainstream, including water drawn from the mainstream by underground pumping, less measured and estimated unmeasured return flow to the river.

3/ Sum of Total Consumptive Use, Lower Division States, deliveries to Mexico in Satisfaction of Treaty and Bypass Pursuant to Min. 242.

4/ Includes water delivered in satisfaction of the the treaty with Mexico and water bypassed pursuant to Minute 242.

Note to Reader: Each section of this report, and the data for each State within each section has its own sequence of footnotes.

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

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

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

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

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

RECORDS OF RELEASES OF WATER THROUGH  
REGULATORY STRUCTURES IN ACCORDANCE WITH  
ARTICLE V(A) OF THE DECREE OF  
THE SUPREME COURT OF THE UNITED STATES  
IN ARIZONA v. CALIFORNIA ET AL. DATED MARCH 9, 1964

CALENDAR YEAR 2002



The following tabulation for calendar year 2002 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 "Diversions for Colorado River Indian Reservation Main Canal near Parker, Arizona." The diversions for the Colorado River Indian Reservation are made at Headgate Rock Dam.

RELEASES OF WATER THROUGH REGULATORY STRUCTURES  
CONTROLLED BY THE UNITED STATES  
CALENDAR YEAR 2002

STRUCTURE	05/12/2003	(THOUSAND ACRE-FEET)												TOTAL
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
GLEN CANYON DAM	1/	805	604	611	616	605	762	917	909	492	503	480	609	7912.6
HOOVER DAM		702	785	1146	1112	1170	1036	1007	945	664	525	625	731	10447.2
DAVIS DAM		703	836	1109	1175	1149	1084	1061	967	826	666	642	602	10819.8
PARKER DAM		398	499	697	810	789	816	888	745	620	539	419	345	7565.4
HEADGATE ROCK DAM	2/	372	461	648	748	717	744	809	673	573	498	393	324	6961.4
PALO VERDE DAM		313	405	610	682	620	595	655	555	505	444	360	293	6034.5
IMPERIAL DAM	3/	19	21	72	42	60	32	29	30	41	33	21	42	441.3
DIVERSION TO MITTRY LAKE FROM GILA MAIN CANAL		1	1	1	1	1	1	1	1	1	1	1	1	9.8
SUM IMPERIAL DAM + DIVERSION TO MITTRY LAKE		20	21	73	43	61	32	29	30	42	34	22	43	451.1
LAGUNA DAM		20	21	82	52	74	34	31	34	46	36	26	47	503.3

1/ Glen Canyon Dam lies within the Upper Basin, hence is not covered by the Decree. We report releases for comparison purposes only.

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

3/ These values are the flow in the river below Imperial Dam. They do not include the diversions through AAC and 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

CALENDAR YEAR 2002

The following tabulations for calendar year 2002 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 measured and generally reported monthly. 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 acre-feet per irrigated acre of land per year was used.

Consumptive use estimated for individual diverters may be over or under estimated. Reclamation is continuing to develop the Lower Colorado River Accounting System (LCRAS) to refine estimates of consumptive use.

Tabulations for calendar year 2002 include determinations of the unmeasured return flows of Colorado River water to Lake Mead from Las Vegas Wash which accrue to the State of Nevada and a portion of the unmeasured return flows from the Yuma Mesa which are credited to the State of Arizona.

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 2002  
STATE OF ARIZONA

05/12/2003

(ACRE-FEET)

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL 1/
LAKE MEAD NAT'L RECREATION, AZ. DIVERSIONS FROM LAKE MEAD (TEMPLE BAR)	DIVERSION RETURNS CONSUMPTIVE USE	5	5	7	11	11	14	15	18	14	10	6	4	121
LAKE MEAD NAT'L RECREATION, AZ. DIVERSIONS FROM LAKE MOHAVE (KATHERINE, WILLOW BEACH)	DIVERSION RETURNS CONSUMPTIVE USE	17	15	47	22	36	29	36	41	24	21	20	15	322
LOWER COLORADO RIVER DAMS PROJECT DIVERSION AT DAVIS DAM	DIVERSION RETURNS CONSUMPTIVE USE	1.2 1.2 0.0	1.0 1.0 0.0	1.1 1.1 0.0	1.2 1.2 0.0	1.4 1.4 0.0	1.6 1.6 0.0	2.5 2.5 0.0	2.4 2.4 0.0	2.3 2.3 0.0	2.5 2.5 0.0	2.5 2.5 0.0	2.1 2.1 0.0	21.8 21.8 0.0
BULLHEAD CITY PUMPED FROM WELLS	DIVERSION	546	512	556	692	764	752	981	924	803	746	611	585	8472
DIV. AT DAVIS DAM, MOHAVE CO. PARKS	DIVERSION RETURNS CONSUMPTIVE USE	4 4 550	5 5 517	7 7 563	8 8 700	12 12 776	12 12 764	13 13 994	14 14 938	13 13 816	6 6 752	5 5 616	4 4 589	103 103 8575
MOHAVE WATER CONSERVATION DIST. PUMPED FROM WELLS	DIVERSION RETURNS CONSUMPTIVE USE	50	42	45	59	64	64	68	74	67	68	44	55	701
BROOKE WATER LLC. PUMPED FROM RIVER	DIVERSION RETURNS CONSUMPTIVE USE	26	24	29	32	39	41	46	45	38	31	28	25	404
MOHAVE VALLEY I.D.D. PUMPED FROM WELLS	DIVERSION RETURNS CONSUMPTIVE USE	1651	1715	2822	3225	3710	4634	4413	4175	4213	2369	1732	1111	35770
FORT MOJAVE INDIAN RESERVATION 14 PUMPS AND WELLS IN FLOOD PLAIN	DIVERSION 3/ RETURNS CONSUMPTIVE USE	2088	3620	4010	5343	6092	8976	8132	8728	6932	3768	3062	1231	61982
GOLDEN SHORES WATER CONSERVATION DIST PUMPED FROM WELLS	DIVERSION 2/ RETURNS CONSUMPTIVE USE	29	23	39	42	52	63	68	66	52	43	31	30	538
HAVASU NATIONAL WILDLIFE REFUGE INLET-NW NE NW SEC 33 T9N RSSW G&SRM WELL 8N/23E-15Aa (AEW-36) (TOPOCK MARSH)	DIVERSION 8/ DIVERSION 2/ RETURNS CONSUMPTIVE USE	1450 15 0 1465	4740 12 0 4752	5456 20 2310 3166	3715 22 4960 -1223	4486 27 4130 383	6753 32 1450 5335	6895 35 382 6548	5545 34 0 5579	3730 27 0 3757	1456 22 0 1478	720 16 0 736	334 16 0 350	45280 278 13232 32326
LAKE HAVASU I.D.D. (CITY) DISTRICT PUMPED FROM WELLS	DIVERSION RETURNS CONSUMPTIVE USE	954	943	1143	1270	1480	1702	1678	1475	1715	1393	1089	979	15821

DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 2002  
STATE OF ARIZONA

05/12/2003		(ACRE-FEET)												
WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL 1/
CENTRAL ARIZONA PROJECT PUMPED FROM LAKE HAVASU	DIVERSION	156600	172626	196427	186294	186221	160853	87924	88278	70132	40086	107726	128428	1581595
	RETURNS													
	CONSUMPTIVE USE													
TOWN OF PARKER 1 WELL-NW NW NW SEC 7 T9N R19W G&SRM	DIVERSION 10/	56	54	67	76	90	108	115	106	81	70	58	48	929
	RETURNS	28	24	26	25	25	24	26	26	25	26	25	25	305
	CONSUMPTIVE USE	29	30	41	51	65	84	88	80	56	44	33	22	624
COLORADO RIVER INDIAN RESERVATION DIVERSION AT HEADGATE ROCK DAM 3 PUMPS & TOWN OF PARKER	DIVERSION	26200	37380	48490	61740	71790	72120	78960	72090	46990	40860	26060	21320	604000
	DIVERSION 4/	557	446	760	821	1004	1218	1328	1278	1005	842	597	588	10444
	RETURNS	14336	15626	18337	18642	21542	23814	24229	23814	21390	18939	14250	14665	229584
	CONSUMPTIVE USE	12421	22200	30913	43919	51252	49524	56059	49554	26605	22763	12407	7243	384860
EHRENBURG IMPROVEMENT ASSN. 1 PUMP SW SEC 3 T3N R22W G&SRM	DIVERSION	26	30	30	36	43	46	49	56	43	40	42	38	479
	RETURNS													
	CONSUMPTIVE USE													
CIBOLA VALLEY IRRIGATION DISTRICT 3 PUMPS SEC'S 20, 21 & 26T1N R23W	DIVERSION	253	2780	1445	2192	3403	3686	4120	3850	2873	769	512	1185	27069
	RETURNS													
	CONSUMPTIVE USE													
CIBOLA NATIONAL WILDLIFE REFUGE 3 PUMPS IN SEC. 2 & 31 T1S, R23W	DIVERSION	635	792	861	1317	1298	1336	1458	1010	808	1678	1115	1032	13339
	RETURNS													
	CONSUMPTIVE USE													
IMPERIAL NATIONAL WILDLIFE REFUGE 2 WELLS SEC 13 T5S R22W G&SRM	DIVERSION	160	128	218	236	288	350	382	367	289	242	172	169	3000
	RETURNS													
	CONSUMPTIVE USE													
YUMA PROVING GROUND DIVERSION AT IMPERIAL DAM WELLS W, X, Y, Z	DIVERSION	0	0	0	0	0	6	0	5	0	3	1	0	15
	DIVERSION	18	17	21	83	92	88	83	93	80	24	25	28	651
	RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
	CONSUMPTIVE USE	18	17	21	83	92	94	83	98	80	27	26	28	666
GILA MONSTER RANCH DIVERSION AT IMPERIAL DAM	DIVERSION *	661	680	949	1190	1181	1716	1515	862	805	869	860	791	12080
* (use on ASLD leased land has been deducted, reported in AZ Supplemental Tabulation)	RETURNS	50	71	-46	44	12	32	104	94	-10	33	115	147	647
WELLTON MOHAWK I. & D. D. DIVERSION AT IMPERIAL DAM	CONSUMPTIVE USE	611	609	995	1145	1170	1684	1411	769	815	835	745	644	11433
	DIVERSION	23236	27370	38919	43618	47661	44676	47945	41661	39000	33653	29032	22813	439585
	GGMC RETURN	1696	2842	-1860	1622	462	835	3166	3960	-433	1226	3807	4119	21443
	DOME RETURN	1668	1692	3211	1144	799	485	298	298	328	1048	813	1232	13018
	MOD RETURN 9/	9930	9720	5100	9620	10440	10450	11500	11070	10340	10590	10490	10120	119370
	RETURNS, TOTAL	13294	14254	6451	12387	11702	11770	14964	15329	10236	12864	15110	15471	153830
	CONSUMPTIVE USE	9942	13116	32468	31231	35959	32906	32981	26332	28764	20789	13922	7342	285755

DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 2002  
STATE OF ARIZONA

05/12/2003

(ACRE-FEET)

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL 1/
CITY OF YUMA														
DIVERSION AT IMPERIAL DAM (AAC)	DIVERSION	1965	1791	2069	2212	2580	2802	2742	2888	2549	2436	2019	2083	28136
DIVERSION AT IMPERIAL DAM (GILA)	DIVERSION	32	17	48	50	50	52	62	49	49	50	41	39	539
	RETURNS	924	753	681	968	942	861	927	934	733	1073	820	1025	10639
	CONSUMPTIVE USE	1073	1055	1437	1294	1688	1993	1877	2003	1865	1413	1241	1097	18036
MARINE CORPS AIR STATION (YUMA)														
DIVERSION AT IMPERIAL DAM	DIVERSION	68	73	117	155	227	304	334	327	251	261	131	59	2307
	RETURNS													
	CONSUMPTIVE USE													
SOUTHERN PACIFIC COMPANY														
DIVERSION AT IMPERIAL DAM	DIVERSION	4	4	4	4	4	4	4	4	4	4	4	4	48
	RETURNS													
	CONSUMPTIVE USE													
YUMA MESA FRUIT GROWERS ASSN.														
DIVERSION AT IMPERIAL DAM	DIVERSION	1	1	1	1	1	1	1	1	1	1	1	1	12
	RETURNS													
	CONSUMPTIVE USE													
UNIVERSITY OF ARIZONA														
DIVERSION AT IMPERIAL DAM (WARREN ACT)	DIVERSION	90	46	46	106	11	96	96	83	77	45	32	27	755
	RETURNS													
	CONSUMPTIVE USE													
YUMA UNION HIGH SCHOOL														
DIVERSION AT IMPERIAL DAM	DIVERSION	5	9	13	19	20	12	15	5	15	15	9	9	146
	RETURNS													
	CONSUMPTIVE USE													
CAMILLE, ALEC. JR.														
DIVERSION AT IMPERIAL DAM (WARREN ACT)	DIVERSION	1	0	0	16	25	20	20	9	10	0	0	0	101
	RETURNS													
	CONSUMPTIVE USE													
DESERT LAWN MEMORIAL														
DIVERSION AT IMPERIAL DAM	DIVERSION	18	16	24	29	62	65	65	20	15	9	12	1	336
	RETURNS													
	CONSUMPTIVE USE													
NORTH GILA VALLEY IRRIGATION DISTRICT														
DIVERSION AT IMPERIAL DAM 7/	DIVERSION	2489	3173	4192	5373	5705	5365	4764	2590	3333	4987	3972	2498	48441
	RETURNS	1692	1995	2076	2772	3054	3098	2979	1939	2052	3087	2941	2339	30024
	CONSUMPTIVE USE	797	1178	2116	2601	2651	2267	1785	651	1281	1900	1031	159	18417
YUMA IRRIGATION DISTRICT														
DIVERSION AT IMPERIAL DAM 7/	DIVERSION	3476	3589	5261	7939	8135	5708	5719	4260	5532	7181	5513	4256	66569
PUMPED FROM PRIVATE WELLS	DIVERSION	72	89	241	234	375	133	96	100	153	153	143	55	1844
	RETURNS	938	1111	565	1643	1381	1082	1479	1313	909	1560	1957	1844	15782
	CONSUMPTIVE USE	2610	2567	4937	6530	7129	4759	4336	3047	4776	5774	3699	2467	52631
YUMA MESA I. D. D.														
DIVERSION AT IMPERIAL DAM 7/	DIVERSION	13867	11740	12990	19984	23756	25450	30227	28447	18304	17568	11983	11216	225532
	RETURNS	5929	5814	2445	5454	5122	5492	7751	7348	3699	4795	5664	6851	66364
	CONSUMPTIVE USE	7938	5926	10545	14530	18634	19958	22476	21099	14605	12773	6319	4365	159168



DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 2002  
STATE OF ARIZONA

05/12/2003		(ACRE-FEET)													
WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL 1/	
<b>UNIT "B" I. D. D.</b>															
DIVERSION AT IMPERIAL DAM	7/E/	DIVERSION	1642	1395	1691	2786	3382	3044	254	2894	2423	2306	1273	1783	24873
		RETURNS	968	933	472	925	893	932	918	1028	665	807	855	1163	10559
		CONSUMPTIVE USE	674	462	1219	1861	2489	2112	-664	1866	1758	1499	418	620	14314
<b>YUMA COUNTY WATER USERS ASSOCIATION</b>															
DIVERSION AT IMPERIAL DAM		DIVERSION	22360	24833	35928	42480	42408	25762	27914	23315	29140	44483	32143	20480	371246
PUMPED FROM WELLS	7E/	DIVERSION	110	97	83	124	95	126	89	210	252	98	83	58	1425
		RETURNS	11201	10109	10080	10498	11281	10088	9181	6688	13101	16608	9719	12890	131444
		CONSUMPTIVE USE	11269	14821	25931	32106	31222	15800	18822	16837	16291	27973	22507	7648	241227
<b>COCOPAH INDIAN RESERVATION</b>															
DIVERSION AT IMPERIAL DAM		DIVERSION	286	395	235	266	78	530	395	219	224	132	118	715	3593
PUMPED FROM WELLS, NORTH COCOPAH		DIVERSION	93	90	108	244	340	321	75	131	187	253	317	140	2296
PUMPED FROM WELLS, WEST COCOPAH		DIVERSION	543	435	742	801	979	1188	1296	1247	980	821	583	574	10191
		RETURNS	5	2	1	2	2	7	3	4	6	5	3	34	74
		CONSUMPTIVE USE	917	918	1084	1309	1395	2033	1763	1593	1385	1201	1015	1394	16006
<b>YUMA AREA OFFICE, USBR</b>															
DIVERSION FROM WELL NO.8		DIVERSION	96	81	114	119	137	42	44	44	42	44	42	44	850
		RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0
		CONSUMPTIVE USE	96	81	114	119	137	42	44	44	42	44	42	44	850
PUMPED FROM SOUTH GILA WELLS (DPOC'S)		RETURNS 5/	5783	5840	3638	6449	5935	5664	5184	4763	4370	4002	3681	5045	60354
<b>OTHERS PUMPING FROM COLORADO RIVER AND WELLS IN FLOOD PLAIN, DAVIS DAM TO INTERNATIONAL BOUNDARY</b>															
		DIVERSION 6/	2484	2147	2926	3372	4078	4318	4317	4370	3582	3549	2459	2248	39850
		RETURNS													
		CONSUMPTIVE USE													
<b>ARIZONA TOTALS</b>															
		DIVERSION	264940	303982	369204	398357	422292	384622	324792	302010	246858	213468	234445	227119	3692089
		RETURNS	55149	56533	47037	64770	66022	64316	68129	63282	57178	63801	55142	61501	722859
		CONSUMPTIVE USE	209791	247449	322167	333587	356269	320306	256663	238728	189680	149667	179303	165618	2969230
<b>ARIZONA WATER BANKING AUTHORITY</b>															
Water Diverted to storage for Nevada	11/	DIVERSION	0	0	0	0	0	0	0	0	0	0	0	66000	66000
Water Diverted to storage for California	12/	DIVERSION	0	0	0	0	0	0	0	0	0	0	0	0	0

NOTE: The term 'CONSUMPTIVE USE' as used in this tabulation means diversions from the mainstream, including water drawn from the mainstream by underground pumping, less measured and, for AAC and GGMC users, estimated unmeasured return flow to the river.

1/ No surface returns unless shown.

2/ Reported annual total only, distributed monthly according to the monthly use patterns of nearby users.

3/ Consumptive use provided by the user. Calculated by adding M&I use to the product of the acreage of each crop type times the crop specific ET.

4/ Sum of diversions by 2 river pumps, water delivered by Town of Parker and an estimate of municipal diversion. Diversion estimated by multiplying CRIT's portion of measured effluent by nearby users diversion:effluent ratio. CRIT portion of WW returns from Joint Venture Treatment plant are combined with ag drainage measured at Scott Road gage.

DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 2002  
STATE OF ARIZONA

05/12/2003

(ACRE-FEET)

WATER USER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL 1/
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5/ Pumped from underground and credited as return flow to Yuma Mesa Division but unassigned to districts as returns.  
Includes quantities of drainage from Yuma Mesa, Unit B, as well as from South Gila Valley.

6/ Details on Arizona Supplemental Sheets.

7/ 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/	340542	
Pumped from wells	1844	
Surface returns from South Gila Valley (S.Gila Canal Wasteway)	2190 *	
Return flow North Gila Valley (6 drains & wasteways)	10224 *	
Return flow South Gila Valley wells (DPOC's)	60353.8	
Return flow Yuma Mesa Outlet Drain B/	49045 *	
Return flow protective and regulatory pumping unit C/	1722 *	
Estimated unmeasured groundwater return flow D/	27727	
Return flow share of Gila Main Canal loss E/	21260 *	
Subtotal return flow F/	172522	172524 check from above
Consumptive Use (see note above)	169864	169862 check from above

(A) Total for the North Gila Valley, Yuma and Yuma Mesa irrigation districts.

(B) Estimated at 85 percent of the Yuma Mesa Outlet Drain 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 & mileage weighted share of Gila Gravity Main Canal loss, less canal surface evaporation (1397 af/yr) and phreatophyte use (2154 af/yr).

(F) Additional unmeasured return flows from the Yuma Mesa Irrigation and Drainage District, 'Unit B', the Cocopah Indian Reservation, and the Yuma County Water Users Association (YCWUA) are utilized to meet consumptive uses in the United States and in partial satisfaction of the Mexican Treaty obligation. Some of these underground flows are recovered by pumping from wells on the Cocopah Indian Reservation and in the YCWUA area, and by some of the surface drains in the YCWUA area. Efforts will be made to at least quantify these return flows within broad limits by respective water user entities in future years.

8/ Diversion adjusted for delivery to Mohave Valley I. D. D. (Chesney).

9/ 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.

10/ Water delivered to CRIT by the Town of Parker has been deducted from this figure.

11/ 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, noted on page 11.

12/ 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.

ARIZONA SUPPLEMENTAL TABULATION  
DAVIS DAM TO INTERNATIONAL BOUNDARY  
CALENDAR YEAR 2002  
STATE OF ARIZONA

05/12/2003

(ACRE-FEET)

WATER USER	USGS #	7/	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL 1/
Marble Canyon Company			0.8	0.8	1.3	2.6	3.2	3.4	3.0	2.9	2.8	2.6	1.8	1.6	26.6
SUBTOTAL, LEE FERRY TO DAVIS DAM	4/		1	1	1	3	3	3	3	3	3	3	2	2	27
McAlister, M. River Intake			0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	5.7
Vanderslice 34d50'17.8"N 114d34'11.0"W	1/3/		33.3	26.7	45.5	49.1	60.1	72.9	79.5	76.5	60.1	50.4	35.8	35.2	625.0
Pelican Bend Farm 34d50'08.3"N 114d34'29.4"W	1/3/		13.3	10.7	18.2	19.7	24.0	29.2	31.8	30.6	24.1	20.2	14.3	14.1	250.0
Crystal Beach Water Cons. District T4N/R20W S7			7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	90.0
Arizona-American Water Co. (Havasu Water Co)			53.9	52.9	59.2	66.9	72.5	69.0	79.6	83.6	61.3	54.2	44.4	38.4	735.9
Arizona State Parks (Windsor Beach)			2.9	1.8	2.5	3.1	3.4	4.1	4.1	4.0	3.3	2.8	2.4	1.3	35.8
SUBTOTALS, DAVIS DAM TO PARKER DAM	4/		111	100	133	147	168	183	203	203	157	136	105	97	1742
Hillcrest Water Co.			2.8	2.5	2.6	3.1	2.6	3.4	2.4	2.8	3.3	3.9	1.7	1.3	32.4
Rayner, Jack Jr. 33d38'14.9"N 114d31'15.8"W			280.5	55.3	110.1	195.0	308.8	520.6	119.0	481.1	493.7	79.2	115.7	28.3	2787.3
Rayner, Jack Jr. 33d38'19.3"N 114d31'08.6"W			21.0	15.1	15.4	29.1	48.9	69.7	26.1	42.8	62.3	8.5	44.1	17.9	400.9
Cibola Sportsman 33d18'09.8"N 114d40'36.3"W			26.7	21.4	36.4	39.3	48.1	58.3	63.6	61.2	48.1	40.3	28.7	28.2	500.0
North Baja Pipeline, LLC. (PG&E)			0.0	0.0	0.0	0.0	0.7	2.3	5.0	5.0	4.6	2.5	0.4	0.4	20.8
BLM Permittees (LHFO & YFO)	5/		101.9	90.9	75.6	89.1	107.5	109.1	195.3	112.4	105.4	80.0	44.1	67.9	1179.1
SUBTOTALS, PARKER DAM TO IMPERIAL DAM	4/		433	185	240	356	517	763	411	705	717	214	235	144	4920
Pratt, L. 32d49'31.2"N 114d29'10.3"W	2/3/5/		15.9	12.7	21.7	23.4	28.6	34.7	37.8	36.4	28.6	24.0	17.0	16.8	297.5
Dulin, A. 32d44'50.9"N 114d31'56.3"W (Is)	AEW-03		7.5	14.2	6.0	12.6	23.7	62.7	86.4	30.0	6.2	12.9	0.4	1.5	264.1
Dulin, A. 32d44'26.5"N 114d31'52.4"W (Is)	AEP-01		82.8	139.8	200.7	138.3	112.7	256	236	102.8	28.3	148.9	196.4	36.4	1679.1
Glen Curtis Cit 32d43'17.8"N 114d33'50.2"W (Is)	AEP-02, 03		220.1	176.3	300.6	324.6	396.8	481.5	525.3	505.4	397.2	332.8	236.2	232.5	4129.4
Glen Curtis Cit 32d43'59.7"N 114d33'41.4"W (Is)	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	0.0
Glen Curtis Cit 32d44'32.9"N 114d33'36.7"W (Is)	2/3/ AEW-05		80.1	64.2	109.4	118.1	144.4	175.2	191.2	184.0	144.6	121.1	86.0	84.6	1502.9
Glen Curtis Cit 32d43'47.1"N 114d32'49.1"W (Is)	ADW-03		32.0	25.6	43.7	47.2	57.7	70.0	76.3	73.4	57.7	48.4	34.4	33.8	600.0
Yowelman, R. 32d43'59.9"N 114d32'44.4"W (Is)	2/3/ ADW-02		55.0	44.0	75.1	81.1	99.1	120.2	131.2	126.1	99.1	83.1	59.1	58.2	1031.3
Harp, R. 32d43'59.9"N 114d32'44.4"W (Is)	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	0.0
Ranch "5" Lands, Yuma Island, AZ (760ac)	8/		73.2	101.3	164.3	233.6	252.0	11.3	31.4	145.7	194.7	326.5	121.2	54.7	1709.8
Ott, Judd T. 32d42'48.1"N 114d33'33.7"W	3/ AEW-06		0.4	0.3	0.6	0.6	0.8	0.9	1.0	1.0	0.8	0.6	0.5	0.4	7.9
Ott, Judd T. 32d42'49.4"N 114d33'34.9"W	3/ AEW-07		26.7	21.4	36.4	39.3	48.1	58.4	63.7	61.2	48.1	40.3	28.7	28.2	500.5
Cameron Bros. 32d42'34.0"N 114d34'13.1"W	AEW-08		21.9	17.6	29.9	32.3	39.5	47.9	52.3	50.3	39.5	33.1	23.6	23.2	411.1
Ogram, George 32d42'54.2"N 114d 34'12.5"W	3/ AEW-09		15.0	12.0	20.5	22.1	27.0	32.8	35.8	34.4	27.0	22.7	16.1	15.9	281.2
Cameron Bros. 32d43'00.0"N 114d34'28.1"W	AEW-10		55.7	44.6	76.0	82.1	100.3	121.8	132.8	127.7	100.3	84.2	59.8	58.9	1044.2
Cameron Bros. 32d42'59.7"N 114d34'43.4"W	AEW-11		22.3	17.9	30.5	32.9	40.2	48.8	53.2	51.2	40.2	33.7	24.0	23.6	418.6
Peach 32d42'47.3"N 114d35'35.0"W	1/3/ AEW-12		14.3	11.4	19.5	21.0	25.7	31.2	34.1	32.8	25.7	21.6	15.3	15.1	267.8
Peach 32d42'49.0"N 114d36'05.3"W	1/3/ AEW-13		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
Peach 32d42'21.9"N 114d34'50.5"W	1/3/ AEW-41		40.9	32.8	55.9	60.4	73.8	89.6	97.7	93.9	73.8	61.9	44.0	43.3	768.1
Yucca Pwr Plant 32d43'12.6"N 114d42'47.1"W	3/		49.3	39.5	67.4	72.8	89.0	107.9	117.7	113.2	89.0	74.6	53.0	52.2	925.6
Amigo Farms 32d43'53.2"N 114d39'21.9"W	2/3/ aew-14, adp-1		18.3	14.7	25.0	27.0	33.0	40.1	43.7	42.0	33.0	27.7	19.7	19.4	343.8
Curry Family LTD 32d44'00.3"N 114d40'03.9"W	2/3/ aep-4, adp-2		15.0	12.0	20.5	22.1	27.0	32.8	35.8	34.4	27.0	22.7	16.1	15.9	281.3
Power, R.E. & P. 32d44'10.2"N 114d40'45.5"W	2/3/ ADP-03,-04		71.6	57.4	97.8	105.6	129.1	156.7	170.9	164.3	129.1	108.3	77.0	75.8	1343.8
Doug Mellon Farms 32d43'55.6"N 114d41'26.3"W	1/ AEW-15														
Doug Mellon Farms 32d44'10.0"N 114d41'56.4"W	1/ AEW-16														
Cocopah Bend RV SEC30 T16S R22E BDB	2/3/														

The total pumpage from these wells is listed on page 13 as: "Pumped from Wells, North Cocopah"

ARIZONA SUPPLEMENTAL TABULATION  
DAVIS DAM TO INTERNATIONAL BOUNDARY  
CALENDAR YEAR 2002  
STATE OF ARIZONA

05/12/2003

(ACRE-FEET)

WATER USER			USGS # 7/	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL 1/
Hall, Ansil	32d43'26.6"N 114d42'54.8"W	2/3/	ADP-05	26.7	21.4	36.4	39.3	48.1	58.3	63.6	61.2	48.1	40.3	28.7	28.2	500.0
Glen Curtis Citrus	32d38'11.4"N 114d45'47.0"W	1/	AEW-17	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.1	0.1	2.1
Glen Curtis Citrus	32d38'11.4"N 114d45'47.0"W	1/	AEW-18	0.0	0.0	0.0	12.9	2.8	12.1	9.0	0.0	0.0	0.0	0.0	0.0	36.8
Glen Curtis Citrus	32d38'11.4"N 114d45'47.0"W	1/	AEW-19	6.0	0.0	0.0	0.0	0.0	0.0	0.0	10.4	0.0	0.0	0.0	10.1	26.5
Jim Cuming	32d37'27.4"N 114d46'19.8"W	1/	AEW-21													
Jim Cuming	32d37'03.9"N 114d46'19.3"W	1/	AEW-22													
Jim Cuming	32d36'57.7"N 114d46'20.0"W	1/	AEW-23													
Jim Cuming	32d36'52.6"N 114d47'18.0"W	1/	AEW-27													
Jim Cuming	32d36'39.2"N 114d47'10.8"W	1/	AEW-30													
Jim Cuming	32d35'41.2"N 114d46'55.3"W	1/	AEW-31													
Jim Cuming	32d37'06.2"N 114d46'55.9"W	1/3/	ADW-06													
Jim Cuming	32d37'06.2"N 114d46'55.9"W	1/3/	ADW-07													
Jim Cuming	32d35'05.5"N 114d47'42.4"W	1/3/	ADW-08													
Waymon Farms	32d36'39.0"N 114d46'06.8"W	1/	AEW-28	136.2	143.0	53.9	64.7	161.1	58.5	0.5	63.5	108.4	232.1	158.9	104.4	1285.2
Waymon Farms	32d36'38.4"N 114d45'54.6"W	1/	AEW-29	125.1	68.3	134.6	219.1	165.4	57.3	37.5	63.5	68.1	182.1	120.6	141.6	1383.2
Jim Cuming	32d33'48.0"N 114d47'21.5"W	1/6/	AEW-32	14.8	0.0	105.3	56.0	88.5	38.4	35.3	46.2	39.4	28.8	0.0	135.6	588.3
Earl Hughs	32d29'55.8"N 114d48'25.6"W	1/6/	AEW-33	47.0	35.9	23.6	27.9	12.4	40.6	36.9	16.6	8.0	11.4	17.3	34.6	312.2
Burell	32d41'48.0"N 114d43'46.4"W	2/6/	ADW-05	11.7	9.3	15.9	17.2	21.0	25.5	27.8	26.8	21.0	17.6	12.5	12.3	218.8
Jim Cuming	32d32'13.5"N 114d47'51.2"W	2/6/	ADW-09	65.0	52.0	88.7	95.8	117.1	142.1	155.0	149.1	117.1	98.2	69.8	68.7	1218.8
J. Barkley	32d30'56.6"N 114d47'56.7"W	2/6/	ADW-10	28.3	22.7	38.7	41.8	51.1	61.9	67.6	65.0	51.1	42.8	30.4	30.0	531.3
Roger S. Brown	32d30'25.0"N 114d48'02.4"W	2/6/	ADW-11	43.3	34.7	59.2	63.9	78.1	94.7	103.4	99.4	78.1	65.5	46.6	45.8	812.5
State of Arizona (Arizona State Land Department)				517.1	613.7	593.7	730.3	895.9	799.0	1008.5	847.5	575.8	847.8	504.0	503.1	8436.3
SUBTOTALS, BELOW IMPERIAL DAM		4/		1939	1861	2552	2866	3390	3369	3700	3459	2705	3196	2117	2005	33160
*** Total Arizona Supplemental Tabulation***		4/		2484	2147	2926	3372	4078	4318	4317	4370	3582	3549	2459	2248	39850

The total pumpage from these wells is listed on page 13 as: "Pumped from Wells, West Cocopah"

- 1/ Calculated from monthly power records and power-discharge measurements where available, else from power-discharge rate.
- 2/ Calculated by assuming an annual diversion rate of 6.25 ac-ft per acre.
- 3/ Reported annual total only, distributed monthly according to the monthly use patterns of nearby users.
- 4/ Values rounded to the nearest whole number, annual total rounded to 10 AF
- 5/ BLM Permittees total includes 77.5af diverted by Pratt for the Pratt Revegetation Project. Pratt ag. use has been reduced by this quantity.
- 6/ BLM Permittee, Limitrophe area, administered by BLM YFO.
- 7/ Reference number listed on the annual USGS, Yuma Field Office report "Pumped Diversions From The Colorado River and Adjacent Floodplain"
- 8/ Surface water diversions from the AAC through Bard Water District. Use calculated by prorating total measured delivery by relative acreage in each state.

DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 2002  
STATE OF CALIFORNIA

05/12/2003

(ACRE-FEET)

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL 1/
FORT MOJAVE INDIAN RESERVATION DELIVERED BY CITY OF NEEDLES PUMPED FROM RIVER AND WELLS	DIVERSION	4	5	5	6	6	6	7	5	5	5	2	2	58
	DIVERSION 9/	405	899	1053	1471	1537	2085	2084	2445	2053	1285	848	271	16436
	RETURNS													
	CONSUMPTIVE USE	409	904	1058	1477	1543	2091	2091	2450	2058	1290	850	273	16494
CITY OF NEEDLES 4 WELLS NW SW SEC 29 T9N R23E SBM	DIVERSION	136	109	186	201	246	298	326	313	246	206	146	144	2559
	RETURNS	60	48	83	89	109	132	144	139	109	91	65	64	1134
	CONSUMPTIVE USE	76	61	104	112	137	166	181	174	137	115	82	80	1425
CHEMEHUEVI INDIAN RESERVATION PUMPED FROM RIVER AND WELLS	DIVERSION	7	14	14	10	14	17	5	2	0	5	1	0	89
	RETURNS													
	CONSUMPTIVE USE													
METROPOLITAN WATER DISTRICT DIVERSION FROM LAKE HAVASU	DIVERSION	107628	98124	109414	105566	109671	106214	108817	111405	106218	58572	109036	110423	1241088
	RETURNS 2/	266	238	270	270	268	253	266	251	234	253	248	277	3094
	CONSUMPTIVE USE	107362	97886	109144	105296	109403	105961	108551	111154	105984	58319	108788	110146	1237994
PARKER DAM AND GOVERNMENT CAMP DIVERSION AT PARKER DAM	DIVERSION	9	7	12	13	16	19	21	20	16	13	9	9	165
	RETURNS	1	1	1	1	2	2	2	2	2	1	1	1	18
	CONSUMPTIVE USE	8	6	11	12	14	17	19	18	14	12	8	8	147
COLORADO RIVER INDIAN RESERVATION PUMPED FROM 4 RIVER PUMPS 4 PUMPS BIG RIVER	DIVERSION 4/	96	123	119	77	276	260	251	297	163	178	110	120	2068
	DIVERSION	84	88	111	130	157	187	216	209	161	133	106	68	1652
	RETURNS 10/	33	35	45	52	63	75	86	84	64	53	43	27	661
	CONSUMPTIVE USE	146	175	186	155	370	373	381	422	259	258	173	161	3059
CITY OF WINTERHAVEN 1 WELL SE NE NE SEC 27 T16S R22E SBM	DIVERSION 6/	7	5	9	10	12	15	16	16	12	10	7	7	128
	RETURNS													
	CONSUMPTIVE USE													
PALO VERDE IRRIGATION DISTRICT DIVERSION FROM PALO VERDE DAM	DIVERSION	43130	59370	75370	95900	108800	113200	127900	121600	78590	73350	53470	47930	998610
	RETURNS	31655	32302	37255	37188	40569	37272	40946	40755	40645	41976	39392	37869	457824
	CONSUMPTIVE USE	11475	27068	38115	58712	68231	75928	86954	80845	37945	31374	14078	10061	540786
YUMA PROJECT, RES. DIV. INDIAN UNIT DIVERSION AT IMPERIAL DAM	DIVERSION	3176	3339	4869	6869	5626	2475	2509	2542	2895	5372	4598	2814	47084
	RETURNS	47	17	11	49	92	26	17	37	51	158	87	105	697
	CONSUMPTIVE USE	3129	3322	4858	6820	5534	2449	2492	2505	2844	5214	4511	2709	46387
YUMA PROJECT, RES. DIV. BARD UNIT DIVERSION AT IMPERIAL DAM	DIVERSION 7/	2975	2625	4330	5926	5689	4151	5580	3045	2652	4242	3702	2303	47221
	RETURNS	25	8	6	26	56	24	22	30	35	85	40	53	410
	CONSUMPTIVE USE	2950	2617	4324	5900	5633	4127	5558	3015	2617	4157	3662	2250	46811
RETURNS FROM YUMA PROJECT RESERVATION DIVISION RETURNS	RETURNS 3/	2673	2619	2970	2414	2759	2442	2625	2848	2658	2912	2282	2601	31803
SUM YUMA PROJECTS, RES. DIV. USE	CONSUMPTIVE USE	3406	3320	6212	10306	8408	4134	5425	2672	2803	6459	5891	2358	61395

DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 2002  
STATE OF CALIFORNIA

05/12/2003		(ACRE-FEET)													
WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL 1/	
IMPERIAL IRRIGATION DISTRICT DIVERSION AT IMPERIAL DAM		DIVERSION 11/	153082	192723	277049	332514	360734	333917	377089	341232	272637	257724	187775	143876	3230352
		RETURNS	3754	1637	1049	4131	10058	5942	4499	8864	9440	12801	5853	9340	77368
		CONSUMPTIVE USE	149328	191086	276000	328383	350676	327975	372590	332368	263197	244923	181922	134536	3152984
COACHELLA VALLEY WATER DISTRICT DIVERSION AT IMPERIAL DAM		DIVERSION 11/	16434	18656	27241	31512	36452	36788	37262	36109	31499	25721	23576	18256	339506
		RETURNS	403	158	103	392	1016	655	445	938	1091	1278	735	1185	8399
		CONSUMPTIVE USE	16031	18498	27138	31120	35436	36133	36817	35171	30408	24443	22841	17071	331107
OTHERS PUMPING FROM COLORADO RIVER AND WELLS IN FLOOD PLAIN, DAVIS DAM TO INTERNATIONAL BOUNDARY		DIVERSION 5/	890	964	1273	1601	2192	2247	2404	2351	2058	1711	1121	1189	20000
		RETURNS													
		CONSUMPTIVE USE													
CALIFORNIA TOTALS		DIVERSION	328063	377051	501056	581807	631428	601879	664486	621592	499205	428527	384508	327413	5947015
		RETURNS	38918	37063	41792	44613	54992	46823	49053	53948	54329	59609	48745	51522	581407
		CONSUMPTIVE USE	289145	339988	459264	537194	576436	555056	615433	567644	444876	368918	335763	275891	5365609
		WATER MANAGEMENT													
		ACCT. CREDITS	0	0	0	0	0	0	0	0	0	0	0	0	0
		TOTAL USE	289145	339988	459264	537194	576436	555056	615433	567644	444876	368918	335763	275891	5365609
WATER CONSERVATION PROGRAM IMPERIAL I. D./METROPOLITAN W. D. CONSERVED WATER		8/	8745	8745	8745	8745	8745	8745	8745	8745	8745	8745	8745	8745	104940

NOTE: The term 'CONSUMPTIVE USE' as used in this tabulation means diversions from the mainstream, including water drawn from the mainstream by underground pumping, less measured and, for AAC and GGMC users, estimated unmeasured return flow to the river.

1/ No surface returns unless shown.

2/ Estimate based on measured seepage returning from regulatory reservoirs less an estimated amount of phreatophyte use.

3/ Returns unassigned include drainage from the Indian Unit and the Bard Unit in the Reservation Division but excludes seepage from the All-American Canal.

4/ Calculated using monthly power records.

5/ Details on California Supplemental Sheets.

6/ Reported annual total only, distributed monthly according to the monthly use patterns of nearby users.

7/ The diversions to Bard, listed here, have been reduced by the amount of water delivered to Ranch 5 lands in California and Arizona. See Supplemental Tabulations

8/ IID/MWD Water Conservation Program Phase 1 conserved water made available by IID for diversion in current year by MWD.

9/ Consumptive use provided by the user. Calculated by adding M&I use to the product of the acreage of each crop type times the crop specific ET.

10/ 40% of Big River pumpage calculated as returns.

11/ This record has been adjusted to account for diversions to the East Mesa from the Coachella Canal.

CALIFORNIA SUPPLEMENTAL TABULATION  
DAVIS DAM TO INTERNATIONAL BOUNDARY  
CALENDAR YEAR 2002  
STATE OF CALIFORNIA

05/12/2003

(ACRE-FEET)

WATER USER		USGS # 7/	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL 1/
De Soto Ranch	34d 59' 42.6"N 114d 38' 35.6"W 1/	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	34d 59' 22.9"N 114d 38' 59.6"W 1/	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	34d 59' 22.9"N 114d 38' 59.6"W 4/		2.7	2.2	3.7	4.0	4.9	5.9	6.5	6.2	4.9	4.1	2.9	2.9	50.9
Pacific Gas & Electric															0.0
Havasu Water Company	T5N/R25E SEC31		4.3	4.0	3.7	4.6	4.6	5.0	5.8	6.9	7.0	5.2	4.6	4.6	60.1
SUBTOTALS, DAVIS DAM TO PARKER DAM		5/	7	6	7	9	9	11	12	13	12	9	8	7	111
Lye, C. L.	34d05'24.6"N 114d27'46.7"W 2/4/	cew-16	2.6	11.4	11.0	15.6	18.3	27.1	28.3	42.7	40.7	16.5	29.8	15.8	259.8
Lake Enterprises of California (was Pichaco Dev't)			0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5
BLM Permittees (LHFO & YFO)		3/	31.9	36.7	43.1	53.0	64.5	52.9	67.6	61.8	35.3	31.6	20.5	22.1	521.0
SUBTOTALS, PARKER DAM TO IMPERIAL DAM		5/	35	49	55	69	83	80	96	105	76	48	50	38	783
Wetmore, Kenneth C.		3/4/	0.3	0.2	0.4	0.4	0.5	0.6	0.7	0.7	0.5	0.4	0.3	0.3	5.4
Williams, Jerry		3/4/	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.1
Lindeman, William H. & Hazel D.		3/4/	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
Carney, Jerome D.		3/4/	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.5
Wetmore, Mark M.		3/4/	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
Valdez, Mike	32d48'38.9"N 114d30'56.4"W	2/4/	53.3	42.7	72.8	78.6	96.1	116.6	127.2	122.3	96.1	80.6	57.3	56.4	1000.0
Living Earth Frm	32d48'08.2"N 114d31'42.0"W	2/4/	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
Power/Valdez	32d45'11.2"N 114d32'20.1"W	2/4/	169.9	136.1	232.1	250.5	306.3	371.7	405.5	389.8	306.3	256.9	182.6	179.8	3187.5
MivCo Packing	32d46'40.6"N 114d33'35.0"W	1/4/	2.1	1.6	2.8	3.0	3.7	4.5	4.9	4.7	3.7	3.1	2.2	2.2	38.5
Valdez, Mike	32d44'18.2"N 114d35'20.3"W	1/4/	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/	50.8	70.4	114.2	162.3	175.1	7.8	21.8	101.2	135.3	226.9	84.2	38.0	1188.2
Huerta Packing	32d44'04.9"N 114d39'50.6"W	2/4/	20.0	16.0	27.3	29.5	36.0	43.7	47.7	45.9	36.0	30.2	21.5	21.2	375.0
Horizon Farms	32d46'13.4"N 114d34'23.3"W	1/	3.1	9.4	9.4	28.1	75.0	81.3	59.4	87.5	28.1	37.5	0.0	90.6	509.4
Horizon Farms	32d46'21.9"N 114d34'37.0"W	1/	9.4	28.1	0.0	21.9	53.1	46.9	25.0	71.9	90.6	31.3	6.3	6.3	390.8
Horizon Farms	32d45'53.1"N 114d35'06.3"W	1/	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
Horizon Farms	32d45'53.9"N 114d35'06.9"W	1/	6.3	12.5	9.4	0.0	21.9	0.0	0.0	0.0	9.4	0.0	0.0	0.0	59.5
Horizon Farms	32d45'53.9"N 114d35'06.9"W	4/	12.0	9.6	16.4	17.7	21.6	26.2	28.6	27.5	21.6	18.1	12.9	12.7	225.0
Horizon Farms	32d45'52.3"N 114d34'44.2"W	4/	12.0	9.6	16.4	17.7	21.6	26.2	28.6	27.5	21.6	18.1	12.9	12.7	225.0
Horizon Farms	32d46'04.9"N 114d33'35.0"W	4/	12.0	9.6	16.4	17.7	21.6	26.2	28.6	27.5	21.6	18.1	12.9	12.7	225.0
Horizon Farms	32d45'51.4"N 114d33'48.3"W	4/	12.0	9.6	16.4	17.7	21.6	26.2	28.6	27.5	21.6	18.1	12.9	12.7	225.0
Horizon Farms	32d45'58.0"N 114d33'34.9"W	1/4/	8.9	7.1	12.2	13.1	16.0	19.5	21.2	20.4	16.0	13.5	9.6	9.4	167.0
Horizon Farms	32d45'50.5"N 114d33'35.2"W	1/4/	56.7	45.4	77.4	83.5	102.1	123.9	135.2	130.0	102.1	85.7	60.9	59.9	1062.8
Land, K. H.	32d45'32.1"N 114d34'58.5"W	1/4/	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	32d45'23.9"N 114d34'37.8"W	1/	7.1	0.0	8.3	0.0	0.0	13.0	13.0	18.9	9.5	0.0	7.1	2.4	79.3
Horizon Farms	32d45'30.8"N 114d34'15.2"W	1/	23.4	11.0	16.5	34.4	50.9	31.6	49.5	19.2	55.0	38.5	31.6	39.9	401.5
Dees, Alex	32d45'40.0"N 114d33'55.5"W	1/	73.6	70.0	84.7	154.7	182.3	254.1	294.6	290.9	274.3	255.9	145.5	123.4	2204.0
Horizon Farms	32d45'17.2"N 114d33'59.2"W	1/	54.6	42.9	42.9	107.7	253.3	184.1	196.5	147.7	192.1	138.3	124.5	204.5	1689.1
Horizon Farms	32d45'34.8"N 114d33'24.2"W	1/	114.6	172.4	170.5	230.2	252.0	282.3	282.3	244.4	163.9	69.2	54.9	110.8	2147.5
Horizon Farms	32d45'21.7"N 114d33'23.4"W	1/	8.9	44.3	30.3	0.0	99.0	118.3	141.9	62.8	22.2	20.0	8.9	8.9	565.5
Power, L.O.	32d44'45.6"N 114d33'12.9"W	1/	74.2	110.1	148.3	161.8	175.3	213.5	204.5	220.2	229.2	197.8	146.1	71.9	1952.9
Harp, R.	32d44'46.5"N 114d33'57.4"W	4/	9.6	7.7	13.1	14.1	17.3	21.0	22.9	22.0	17.3	14.5	10.3	10.2	180.0
Horizon Farms	32d45'19.5"N 114d33'08.5"W	4/	12.0	9.6	16.4	17.7	21.6	26.2	28.6	27.5	21.6	18.1	12.9	12.7	225.0
Horizon Farms	32d45'33.3"N 114d33'11.0"W	4/	12.0	9.6	16.4	17.7	21.6	26.2	28.6	27.5	21.6	18.1	12.9	12.7	225.0
SUBTOTALS, ALL USES BELOW IMPERIAL DAM 5/			848	909	1211	1523	2099	2156	2296	2233	1971	1654	1063	1143	19106

CALIFORNIA SUPPLEMENTAL TABULATION  
DAVIS DAM TO INTERNATIONAL BOUNDARY  
CALENDAR YEAR 2002  
STATE OF CALIFORNIA

05/12/2003		(ACRE-FEET)													
WATER USER	USGS # 7/	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL 1/	
*** Total California Supplemental Tabulation ***		6/	890	964	1273	1601	2192	2247	2404	2351	2058	1711	1121	1189	20000

1/ Calculated from monthly power records and power-discharge measurements where available, else from power-discharge rate.

2/ Calculated by assuming an annual diversion rate of 6 ac-ft per acre.

3/ Location of well/pump not reported.

4/ Reported annual total only, distributed monthly according to the monthly use patterns of nearby users.

5/ Values rounded to the nearest whole number.

6/ Values rounded to the nearest whole number, annual total rounded to 10 AF.

7/ Reference number listed on the annual USGS, Yuma Field Office report "Pumped Diversions From The Colorado River and Adjacent Floodplain"

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 be 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 2002  
STATE OF NEVADA

05/12/2003

(ACRE-FEET)

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL 1/
<b>BOULDER CANYON PROJECT</b>														
DIVERSION AT HOOVER DAM	DIVERSION	5	4	6	6	9	8	9	11	8	7	8	6	88
	RETURNS	2	2	2	3	2	3	2	2	2	2	2	2	27
	CONSUMPTIVE USE	3	3	3	3	7	4	7	9	6	5	6	4	61
<b>ROBERT B. GRIFFITH WATER PROJECT</b>														
DIVERSION AT SADDLE ISLAND, LAKE MEAD	DIVERSION	25919	23980	31767	39936	45405	44075	50464	50430	42002	39886	30040	26264	450168
BY USER: BOULDER CITY 4/		583	601	833	1062	1276	1483	1785	1915	1675	1207	752	612	13784
LAS VEGAS VALLEY W.D. 4/		19345	18045	23859	29788	34041	30999	34777	34472	28620	27794	21967	19654	323361
HENDERSON 4/		3204	3084	3945	5306	6331	7211	8803	8865	7486	6589	4085	3291	68200
NORTH LAS VEGAS 4/		2666	2164	2978	3618	3569	4167	4818	4846	3884	3916	3103	2613	42342
NELLIS AIR FORCE BASE 4/		121	86	152	162	188	215	281	332	337	380	133	94	2481
	RETURNS													
	CONSUMPTIVE USE													
<b>LAKE MEAD NATIONAL RECREATION AREA</b>														
DIVERSIONS FROM LAKE MEAD	DIVERSION	64	58	58	54	65	92	102	106	94	76	53	47	869
	RETURNS													
	CONSUMPTIVE USE													
<b>LAKE MEAD NATIONAL RECREATION AREA</b>														
DIVERSION FROM LAKE MOHAVE (COTTONWOOD)	DIVERSION	22	23	23	27	27	29	25	35	30	26	21	23	310
	RETURNS													
	CONSUMPTIVE USE													
<b>BASIC MANAGEMENT INC.</b>														
DIVERSION AT SADDLE ISLAND, LAKE MEAD	DIVERSION	516	543	606	504	422	374	387	419	408	363	390	440	5372
	RETURNS													
	CONSUMPTIVE USE													
<b>CITY OF HENDERSON</b>														
DIVERSION AT SADDLE ISLAND, LAKE MEAD	DIVERSION	662	547	967	1414	1612	1694	1744	1620	1217	680	573	476	13206
	RETURNS													
	CONSUMPTIVE USE													
<b>NEVADA DEPARTMENT OF FISH &amp; GAME</b>														
DIVERSION AT SADDLE ISLAND, LAKE MEAD	DIVERSION	535	410	459	441	486	547	560	560	591	610	563	626	6388
	RETURNS	534	409	458	440	485	546	559	559	590	609	562	625	6376
	CONSUMPTIVE USE	1	1	1	1	1	1	1	1	1	1	1	1	12
<b>CITY OF BOULDER CITY</b>														
DIVERSION AT HOOVER DAM	DIVERSION	82	48	80	107	128	127	159	88	81	22	18	18	958
	RETURNS													
	CONSUMPTIVE USE													
<b>PACIFIC COAST BUILDING PRODUCTS INC.</b>														
DIVERSION AT GYPSUM WASH, LAKE MEAD	DIVERSION	48	62	58	84	70	82	81	80	70	76	65	61	837
	RETURNS													
	CONSUMPTIVE USE													
<b>SOUTHERN NEVADA WATER AUTHORITY (SCE)</b>														
PUMPED FROM SEC 24 T32S R66E MDB&M	DIVERSION	1052	920	758	540	1102	1270	1362	1372	1158	996	864	903	12297
	RETURNS													
	CONSUMPTIVE USE													

DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 2002  
STATE OF NEVADA

05/12/2003		(ACRE-FEET)												
WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL 1/
<b>BIG BEND WATER DISTRICT</b>														
DIVERSION SEC 12 T32S R66E MDB&M	DIVERSION	343	331	400	432	456	489	557	552	508	568	510	522	5668
	RETURNS	253	244	286	296	273	285	306	320	274	279	252	245	3313
	CONSUMPTIVE USE	90	87	114	136	183	204	251	232	234	289	258	277	2355
<b>FORT MOJAVE INDIAN RESERVATION (Avi)</b>														
2 WELLS, SECTIONS 27 & 5	DIVERSION 5/	183	298	340	410	439	657	534	522	435	298	260	142	4518
	RETURNS													
	CONSUMPTIVE USE													
<b>LAS VEGAS WASH RETURN FLOWS</b>														
	RETURNS 2/	15520	14296	13761	12830	12930	13264	15192	14187	12317	12770	12102	15076	164245
<b>OTHERS PUMPING FROM COLORADO RIVER AND WELLS IN FLOOD PLAIN, DAVIS DAM TO CALIFORNIA BOUNDARY</b>														
	DIVERSION 3/	0	0	0	0	0	0	0	0	0	0	0	0	0
	RETURNS													
	CONSUMPTIVE USE													
<b>NEVADA TOTALS</b>														
	DIVERSION	29430	27225	35522	43955	50221	49444	55984	55795	46602	43608	33366	29528	500679
	RETURNS	16309	14951	14507	13569	13690	14098	16059	15068	13183	13660	12918	15948	173961
	CONSUMPTIVE USE	13121	12274	21014	30386	36531	35346	39925	40727	33419	29948	20448	13580	326718
<b>GROUNDWATER INJECTED STORAGE 6/</b>														
<b>LAS VEGAS VALLEY WATER DIST.</b>														
	INJECTED	10	239	375	58	0	0	0	0	0	0	0	1573	2255
	WITHDRAWN	0	0	0	0	0	0	0	354	335	1294	213	74	2270
<b>CITY OF NORTH LAS VEGAS</b>														
	INJECTED	0	0	0	0	0	0	0	0	0	0	0	0	0
	WITHDRAWN	0	0	0	0	0	0	0	0	0	0	0	0	0

NOTE: The term 'CONSUMPTIVE USE' as used in this tabulation means diversions from the mainstream, including water drawn from the mainstream by underground pumping, less measured return flow to the river.

1/ No surface returns unless shown.

2/ Estimated return based on historic use method adopted by the task force on unmeasured return flows on August 28, 1984 and as revised.

3/ Details on Nevada Supplemental Sheets.

4/ User deliveries adjusted by weighted use to equal total diversion at Lake Mead.

5/ Consumptive use provided by the user. Calculated by adding M&I use to the product of the acreage of each crop type times the crop specific ET.

6/ Nevada Injected Storage Balance:	Beginning of Year Cumulative Injected Storage	253045
	Plus Current Year Additions	2255
	Minus Current Year Withdrawals	2270
	End of Year Cumulative Injected Storage	253030

NEVADA SUPPLEMENTAL TABULATION  
DAVIS DAM TO INTERNATIONAL BOUNDARY  
CALENDAR YEAR 2002  
STATE OF NEVADA

05/12/2003

(ACRE-FEET)

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
Sportsman's Park	1/	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
Boy Scouts of America SEC5 T33S R66E	1/	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
*** Total Nevada Supplemental Tabulation ***	2/	0	0	0	0	0	0	0	0	0	0	0	0	0

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

2/ Values rounded to the nearest whole number.

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

CALENDAR YEAR 2002

The following tabulations for calendar year 2002 show records of releases of mainstream water pursuant to orders thereto, 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 we have 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, this line has been zeroed out, 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 requested on the day the diversion was made. The monthly quantities shown on the tabulations are the sum of the daily quantities. Final approval of daily orders was given in advance of the delivery date by the amount of time required for water to travel between the storage location and the users 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 2002  
 STATE OF ARIZONA

05/12/2003

(ACRE-FEET)

WATER USER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
CENTRAL ARIZONA PROJECT, DIVERSION AT LAKE HAVASU													
ORDERED BUT NOT DIVERTED	7757	2299	716	1758	1218	1611	646	2681	212	275	6142	1622	26937
DELIVERED TO MEXICO IN													
SATISFACTION OF TREATY													
DIVERTED BY OTHERS													
DELIVERED TO STORAGE 2/	7757	2299	716	1758	1218	1611	646	2681	212	275	6142	1622	26937
DELIVERED TO MEXICO IN													
EXCESS OF TREATY	0	0	0	0	0	0	0	0	0	0	0	0	0
COLO. RIVER INDIAN RESERVATION, DIVERSION AT HEADGATE ROCK													
ORDERED BUT NOT DIVERTED	605	436	653	932	1910	1202	540	16	676	557	811	399	8737
DELIVERED TO MEXICO IN													
SATISFACTION OF TREATY													
DIVERTED BY OTHERS	18	44	309	198	611	752	155	16	180	161	296	351	3091
DELIVERED TO STORAGE 2/	587	392	344	734	1299	450	385	0	496	396	515	48	5646
DELIVERED TO MEXICO IN													
EXCESS OF TREATY	0	0	0	0	0	0	0	0	0	0	0	0	0
NORTH GILA VALLEY I.D., DIVERSION AT IMPERIAL DAM													
ORDERED BUT NOT DIVERTED	3084	1843	3431	3546	3902	4604	4764	2442	2041	3679	3521	1061	37918
DELIVERED TO MEXICO IN													
SATISFACTION OF TREATY													
DIVERTED BY OTHERS	1035	1186	2029	2055	1950	3031	1551	1006	926	555	936	674	16934
DELIVERED TO STORAGE 2/	2049	657	1402	1491	1952	1573	3213	1436	1115	3124	2585	387	20984
DELIVERED TO MEXICO IN													
EXCESS OF TREATY	0	0	0	0	0	0	0	0	0	0	0	0	0
WELLTON-MOHAWK I.& D. DISTRICT, DIVERSION AT IMPERIAL DAM													
ORDERED BUT NOT DIVERTED	2428	2166	2880	2936	2664	2362	4927	8769	8541	22786	422	528	61409
DELIVERED TO MEXICO IN													
SATISFACTION OF TREATY													
DIVERTED BY OTHERS	333	988	446	581	855	617	841	1779	2543	2668	48	220	11919
DELIVERED TO STORAGE 2/	2095	1178	2434	2355	1809	1745	4086	6990	5998	20118	374	308	49490
DELIVERED TO MEXICO IN													
EXCESS OF TREATY	0	0	0	0	0	0	0	0	0	0	0	0	0
YUMA IRRIGATION DISTRICT, DIVERSION AT IMPERIAL DAM													
ORDERED BUT NOT DIVERTED	621	528	551	329	252	496	623	498	807	1107	976	809	7597
DELIVERED TO MEXICO IN													
SATISFACTION OF TREATY													
DIVERTED BY OTHERS	141	236	163	131	83	274	153	123	345	46	0	61	1756
DELIVERED TO STORAGE 2/	480	292	388	198	169	222	470	375	462	1061	976	748	5841
DELIVERED TO MEXICO IN													
EXCESS OF TREATY	0	0	0	0	0	0	0	0	0	0	0	0	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 2002  
STATE OF ARIZONA

WATER USER	05/12/2003												(ACRE-FEET)
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
YUMA MESA I.& D. DISTRICT, DIVERSION AT IMPERIAL DAM													
ORDERED BUT NOT DIVERTED	1936	2218	2505	2668	1908	1129	1496	1081	807	4713	3372	809	24642
DELIVERED TO MEXICO IN													
SATISFACTION OF TREATY													
DIVERTED BY OTHERS	387	553	1386	1014	958	593	553	387	345	579	460	61	7276
DELIVERED TO STORAGE 2/	1549	1665	1119	1654	950	536	943	694	462	4134	2912	748	17366
DELIVERED TO MEXICO IN													
EXCESS OF TREATY	0	0	0	0	0	0	0	0	0	0	0	0	0
UNIT "B" I.& D. DISTRICT, DIVERSION AT IMPERIAL DAM													
ORDERED BUT NOT DIVERTED	395	234	268	232	391	367	672	317	0	1107	422	528	4933
DELIVERED TO MEXICO IN													
SATISFACTION OF TREATY													
DIVERTED BY OTHERS	143	137	111	24	141	198	173	48	0	46	48	220	1289
DELIVERED TO STORAGE 2/	252	97	157	208	250	169	499	269	0	1061	374	308	3644
DELIVERED TO MEXICO IN													
EXCESS OF TREATY	0	0	0	0	0	0	0	0	0	0	0	0	0
YUMA COUNTY WATER USERS ASSN., DIVERSION AT IMPERIAL DAM													
ORDERED BUT NOT DIVERTED	4883	4356	6450	10011	6978	3485	4871	2949	3664	19482	16110	4491	87730
DELIVERED TO MEXICO IN													
SATISFACTION OF TREATY													
DIVERTED BY OTHERS	631	1692	1938	3917	4030	1426	1908	2182	1638	3199	3642	3858	30061
DELIVERED TO STORAGE 2/	4252	2664	4512	6094	2948	2059	2963	767	2026	16283	12468	633	57669
DELIVERED TO MEXICO IN													
EXCESS OF TREATY	0	0	0	0	0	0	0	0	0	0	0	0	0
ARIZONA TOTALS													
ORDERED BUT NOT DIVERTED	21709	14080	17454	22412	19223	15256	18539	18753	16748	53706	31776	10247	259903
DELIVERED TO MEXICO IN													
SATISFACTION OF TREATY													
DIVERTED BY OTHERS	2688	4836	6382	7920	8628	6891	5334	5541	5977	7254	5430	5445	72326
DELIVERED TO STORAGE 2/	19021	9244	11072	14492	10595	8365	13205	13212	10771	46452	26346	4802	187577
DELIVERED TO MEXICO IN													
EXCESS OF TREATY	0	0	0	0	0	0	0	0	0	0	0	0	0

1/ Reclamation is currently unable to quantify, by user, the amount of Water Ordered but not Diverted that is delivered to Mexico in excess of treaty.

Reclamation is working on a methodology to prorate these quantities between users and intends to have the methodology operational for the next accounting year.

2/ Available for future use.

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 2002  
STATE OF CALIFORNIA

05/12/2003

(ACRE-FEET)

WATER USER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
METROPOLITAN WATER DISTRICT, DIVERSION AT LAKE HAVASU													
ORDERED BUT NOT DIVERTED	3600	1000	1700	1000	500	1400	3400	1400	2300	200	900	3200	20600
DELIVERED TO MEXICO IN													
SATISFACTION OF TREATY													
DIVERTED BY OTHERS													
DELIVERED TO STORAGE 2/	3600	1000	1700	1000	500	1400	3400	1400	2300	200	900	3200	20600
DELIVERED TO MEXICO IN													
EXCESS OF TREATY	0	0	0	0	0	0	0	0	0	0	0	0	0
PALO VERDE IRRIGATION DISTRICT, DIVERSION AT PALO VERDE DAM													
ORDERED BUT NOT DIVERTED	2346	1228	851	2519	4423	2400	5831	1745	1684	1327	0	244	24598
DELIVERED TO MEXICO IN													
SATISFACTION OF TREATY													
DIVERTED BY OTHERS	674	498	393	1037	2717	1426	2319	1242	1684	1327	0	244	13561
DELIVERED TO STORAGE 2/	1672	730	458	1482	1706	974	3512	503	0	0	0	0	11037
DELIVERED TO MEXICO IN													
EXCESS OF TREATY	0	0	0	0	0	0	0	0	0	0	0	0	0
YUMA PROJECT RESV. DIVISION, DIVERSION AT IMPERIAL DAM													
ORDERED BUT NOT DIVERTED	1958	1466	1634	2150	2045	2055	2779	2670	1928	1367	3626	0	23678
DELIVERED TO MEXICO IN													
SATISFACTION OF TREATY													
DIVERTED BY OTHERS	514	510	377	807	1091	1232	1621	1815	938	385	811	0	10101
DELIVERED TO STORAGE 2/	1444	956	1257	1343	954	823	1158	855	990	982	2815	0	13577
DELIVERED TO MEXICO IN													
EXCESS OF TREATY	0	0	0	0	0	0	0	0	0	0	0	0	0
IMPERIAL IRRIGATION DISTRICT, DIVERSION AT IMPERIAL DAM													
ORDERED BUT NOT DIVERTED	14313	9318	20101	12103	4758	10189	750	3461	13393	4211	5324	3074	100995
DELIVERED TO MEXICO IN													
SATISFACTION OF TREATY													
DIVERTED BY OTHERS	2696	4134	5798	2583	1755	3100	50	1954	2856	530	482	825	26763
DELIVERED TO STORAGE 2/	11617	5184	14303	9520	3003	7089	700	1507	10537	3681	4842	2249	74232
DELIVERED TO MEXICO IN													
EXCESS OF TREATY	0	0	0	0	0	0	0	0	0	0	0	0	0
COACHELLA VALLEY WATER DIST., DIVERSION AT IMPERIAL DAM													
ORDERED BUT NOT DIVERTED	1053	446	847	809	272	561	482	274	617	803	599	1303	8066
DELIVERED TO MEXICO IN													
SATISFACTION OF TREATY													
DIVERTED BY OTHERS	129	151	305	234	157	422	315	254	115	180	71	1121	3454
DELIVERED TO STORAGE 2/	924	295	542	575	115	139	167	20	502	623	528	182	4612
DELIVERED TO MEXICO IN													
EXCESS OF TREATY	0	0	0	0	0	0	0	0	0	0	0	0	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 2002  
 STATE OF CALIFORNIA

WATER USER	05/12/2003 (ACRE-FEET)												TOTAL
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
CALIFORNIA TOTALS													
ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	23270	13458	25133	18581	11998	16605	13242	9550	19922	7908	10449	7821	177937
DIVERTED BY OTHERS	4013	5293	6873	4661	5720	6180	4305	5265	5593	2422	1364	2190	53879
DELIVERED TO STORAGE 2/	19257	8165	18260	13920	6278	10425	8937	4285	14329	5486	9085	5631	124058
DELIVERED TO MEXICO IN EXCESS OF TREATY	0	0	0	0	0	0	0	0	0	0	0	0	0

1/ Reclamation is currently unable to quantify, by user, the amount of Water Ordered but not Diverted that is delivered to Mexico in excess of treaty.

Reclamation is working on a methodology to prorate these quantities between users and intends to have the methodology operational for the next accounting year.

2/ Available for future use.

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 2002

DELIVERIES TO MEXICO IN SATISFACTION OF PART III OF 1944 TREATY  
AND  
WATER PASSING TO MEXICO IN EXCESS OF TREATY REQUIREMENTS  
CALENDAR YEAR 2002

05/12/2003		(ACRE-FEET)												
WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
DELIVERY AT NORTHERLY INT'L BOUNDARY	1/	134707	151375	207181	198402	111988	113969	118596	94716	101749	66707	91304	115178	1505872
DELIVERY AT SOUTHERLY INT'L BOUNDARY		8593	8142	8313	8928	9189	8921	8889	10517	10705	12476	12392	10226	117291
DELIVERY AT TIJUANA	2/	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL DELIVERY TO MEXICO	3/	143300	159517	215494	207330	121177	122890	127485	105233	112454	79183	103696	125404	1623163
TO MEXICO AS SCHEDULED		132456	156901	195426	191223	107268	113473	119427	100753	92460	69485	99466	121662	1500000
TO MEXICO IN EXCESS OF SCHEDULE	4/	10844	2616	20068	16107	13909	9417	8058	4480	19994	9698	4230	3742	123163
WATER BYPASSED PURSUANT TO MINUTE 242		13700	9355	2102	8892	9489	9093	10095	9283	9326	13179	14598	12637	121749

1/ Includes wasteway deliveries to the river limitrophe in satisfaction of Treaty.

2/ Temporary emergency delivery of Colorado River entitlement at Tijuana, via the Colorado River Aqueduct, pursuant to Minute 308.

3/ Does not include Water Bypassed Pursuant to Minute 242.

4/ Water that is lost to the United States through releases into the Colorado River above Morelos Dam in excess of Lower Basin delivery orders and Mexican Treaty requirements. These excess waters exceed water orders in Mexico and are generally not diverted for beneficial use in Mexico.

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

CALENDAR YEAR 2002

DIVERSIONS FROM MAINSTREAM OF GILA AND SAN FRANCISCO RIVERS  
AND  
CONSUMPTIVE USE OF SUCH WATER FOR BENEFIT OF THE GILA NATIONAL FOREST  
CALENDAR YEAR 2002

05/12/2003

(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

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

CALENDAR YEAR 2002

## **Storage and Interstate Release Agreement (SIRA)**

A rule was developed, implemented, and codified in the Code of Federal Regulations at 43 CFR Part 414 to facilitate interstate water banking programs. The rule establishes a procedural framework for the Secretary of the Interior to follow in considering, participating in, and administering Storage and Interstate Release Agreements (SIRA) among the States of Arizona, California, and Nevada. Under the rule, authorized entities in Arizona, California, and Nevada may enter into a SIRA that will facilitate the interstate contractual distribution of Colorado River water by placing water in offstream storage in one State for the future benefit of consuming entities in another State.

During calendar year 2002, the only existing SIRA is among the Southern Nevada Water Authority (SNWA), the Colorado River Commission of Nevada (CRCN), the Arizona Water Banking Authority (AWBA), and the Bureau of Reclamation. The non-Federal parties to this SIRA entered into an Agreement for Interstate Water Banking which contains the business details of their interstate banking program.

When SNWA needs water in a future year and all conditions of the SIRA and other agreements are satisfied, Arizona will forbear use of some of its Colorado River water and replace that water by recovering and using an equivalent amount of water AWBA has stored for the benefit of SNWA. Under another agreement, the Central Arizona Water Conservation District (CAWCD) is obligated to accept the recovered water and reduce its diversion of Colorado River water through the Central Arizona Project by an equivalent amount. Arizona's forbearance develops intentionally created unused apportionment. After the Secretary confirms AWBA's certification that ICUA will exist, the Secretary will release ICUA to SNWA only in the year in which Arizona develops it and only to the extent that ICUA is developed by 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.

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 total ALTSC held for an entity with current SIRA.

SUPPLEMENTAL SUMMARY - STORAGE AND INTERSTATE RELEASE AGREEMENT  
 COLORADO RIVER WATER STORED IN ARIZONA BY THE ARIZONA WATER BANKING AUTHORITY (AWBA) UNDER 43 CFR PART 414  
 WATER STORED FOR THE BENEFIT OF SPECIFIC ENTITIES WITH A VALID SIRA  
 CALENDAR YEAR 2002

05/12/2003

(THOUSAND 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/	50												
Water stored for the	Accrued LTSC in 02	2/	0	0	0	0	0	0	0	0	0	0	0	66	66
Benefit of SNWA	Recovered LTSC in 02	3/	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total 02 ALTSC	4/	50	50	50	50	50	50	50	50	50	50	50	116	116
CALIFORNIA **	Verified BOY ALTSC	1/													
	Accrued LTSC in 02	2/													
	Recovered LTSC in 02	3/													
	Total 02 ALTSC	4/													
STATES TOTAL	Verified BOY ALTSC	1/	50												
	Accrued LTSC in 02	2/	0	0	0	0	0	0	0	0	0	0	0	66	66
	Recovered LTSC in 02	3/	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total 02 ALTSC	4/	50	0	0	0	0	0	0	0	0	0	0	116	116

\*\* 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 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 shall be 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 shall not exceed 100 KAF annually.
- 4/ Monthly sum of provisional and verified ALTSCs.