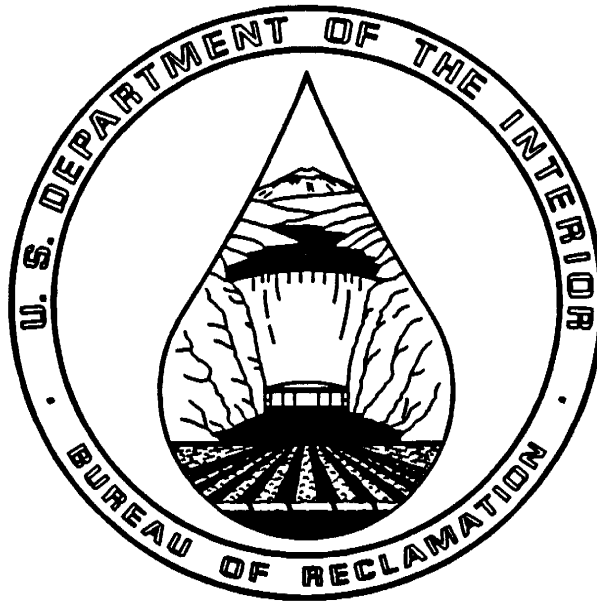


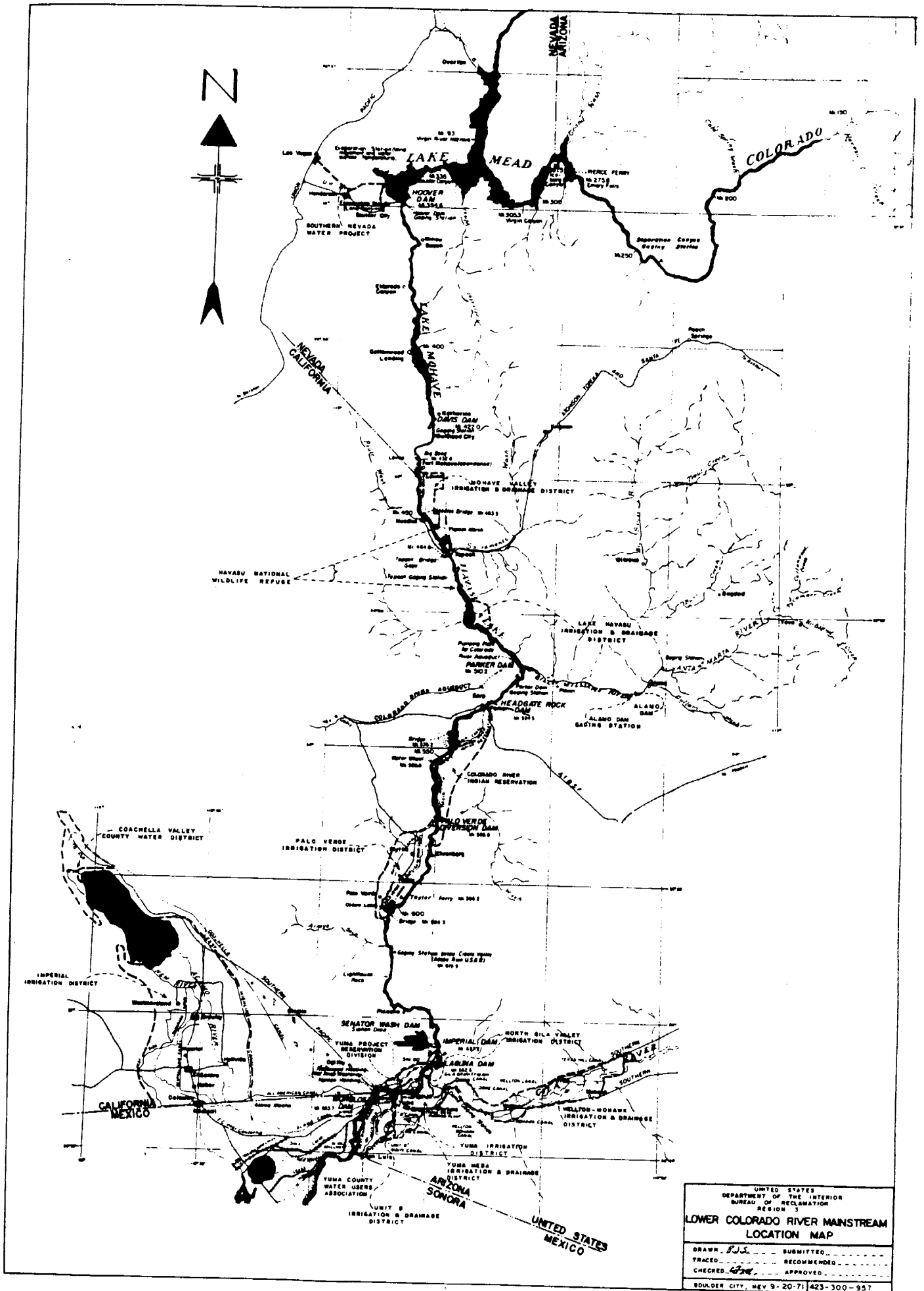
COMPILATION OF RECORDS IN  
ACCORDANCE WITH ARTICLE V OF THE  
DECREE OF THE SUPREME COURT OF  
THE UNITED STATES IN  
ARIZONA v. CALIFORNIA DATED MARCH 9, 1964

CALENDAR YEAR 1993



Bureau of Reclamation

Lower Colorado Region  
Boulder City, Nevada



UNITED STATES  
 DEPARTMENT OF THE INTERIOR  
 BUREAU OF RECLAMATION  
 REGION 3  
**LOWER COLORADO RIVER MAINSTREAM  
 LOCATION MAP**

DRAWN *R.S.J.* SUBMITTED  
 TRACED *R.S.J.* RECOMMENDED  
 CHECKED *R.S.J.* APPROVED

BOULDER CITY, NEV. 9-20-71 423-309-937

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S U M M A R Y  
 WATER SUPPLY, CONSUMPTIVE USE, DELIVERY TO MEXICO, AND SYSTEM LOSS  
 CALENDAR YEAR 1993

FINAL RECORDS

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
(THOUSAND ACRE-FEET)													
WATER USE SUMMARY													
ARIZONA	5.7	20.6	161.5	263.0	262.9	293.7	337.7	260.5	167.3	143.8	110.2	219.7	2246.7
CALIFORNIA	129.8	181.7	421.0	555.2	543.7	521.0	549.0	509.7	433.4	412.8	276.2	301.4	4835.0
NEVADA	7.6	7.9	11.7	15.6	21.7	21.7	25.4	23.8	20.8	20.8	14.3	13.1	204.4
STATES TOTAL	143.2	210.2	594.2	833.8	828.3	836.5	912.1	793.9	621.5	577.4	400.6	534.2	7286.1
MEXICO IN SATISFACTION OF TREATY	265.6	595.1	1339.9	937.8	563.7	317.0	216.1	176.9	179.5	213.0	224.7	163.5	5192.8
MEXICO BYPASS PURSUANT TO MINUTE 242	7.1	10.0	14.2	10.8	8.7	1.8	3.0	3.0	1.2	1.3	0.2	0.1	61.4
USE TOTAL	415.9	815.3	1948.3	1782.5	1400.8	1155.3	1131.2	973.8	802.3	791.7	625.5	697.9	12540.3
END OF MONTH ACTIVE CONTENTS:													
LAKE POWELL	13104	12994	13412	14159	16805	19337	19526	19074	18825	18790	18694	18402	
LAKE MEAD	20627	21515	21981	21922	21521	21258	21111	21277	21379	21228	21283	21324	
LAKE MOHAVE	1735	1709	1691	1547	1717	1663	1632	1509	1375	1444	1509	1612	
LAKE HAVASU	570	599	572	595	611	600	586	594	579	549	540	551	
LOWER BASIN TOTAL STORAGE	22932	23823	24244	24064	23849	23521	23328	23379	23333	23221	23332	23486	

ARTICLE V OF THE DECREE OF THE SUPREME COURT  
OF THE UNITED STATES  
IN ARIZONA V. CALIFORNIA 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 DATED MARCH 9, 1964

CALENDAR YEAR 1993

The following tabulations for calendar year 1993 show 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 are made at Headgate Rock Dam.



RELEASES OF WATER THROUGH REGULATORY STRUCTURES  
 CONTROLLED BY THE UNITED STATES  
 CALENDAR YEAR 1993

STRUCTURE	(THOUSAND ACRE- FEET)												TOTAL
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
GLEN CANYON DAM	783.9	638.6	597.7	592.4	592.8	613.6	896.3	927.7	661.2	532.7	613.8	795.8	8246.5
HOOVER DAM	284.4	61.5	336.6	782.4	1061.0	823.4	929.5	712.1	516.3	663.2	533.8	760.7	7444.9
DAVIS DAM	157.6	97.6	344.0	898.9	865.8	868.4	931.1	827.4	667.8	575.4	457.3	614.9	7286.2
PARKER DAM	100.8	193.3	523.6	623.7	620.7	611.6	653.1	588.3	500.4	457.0	313.4	368.1	5534.0
HEADGATE ROCK DAM 1/	99.8	183.5	465.9	555.6	546.9	530.5	565.4	517.5	454.5	418.5	283.8	308.8	4930.6
PALO VERDE DAM	136.1	156.4	429.3	516.9	491.1	470.5	466.0	433.2	379.7	377.6	235.3	277.0	4369.1
IMPERIAL DAM	23.2	16.9	20.6	20.3	21.5	20.2	21.9	24.6	22.0	19.9	16.7	20.5	248.1
DIVERSION TO MITTRY LAKE FROM GILA MAIN CANAL	0.9	0.8	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.0	1.0	0.9	11.1
SUM IMPERIAL DAM + DIVERSION TO MITTRY LAKE	24.1	17.7	21.5	21.2	22.5	21.1	22.9	25.6	23.0	20.8	17.6	21.5	259.2
LAGUNA DAM	24.9	17.5	49.4	28.7	24.6	27.2	20.4	22.9	22.1	21.2	16.3	21.0	296.1

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

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

DATED MARCH 9, 1964

CALENDAR YEAR 1993

The following tabulations for calendar year 1993 show final records of diversions of water from the mainstream of the Colorado River, return flow of such water to the mainstream and consumptive use of such water. 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 also show quantities of water pumped from the mainstream or from wells in the Colorado River flood plain. Amounts diverted by pumping were determined by: (1) For most electric pumps, diversions were computed on a monthly basis from power records and a "kilowatthour per acre-foot factor" that was determined by discharge measurement; (2) For pumps other than electric and some electric pumps, a consumptive use factor of 6 acre-feet per irrigated acre per year was used.

There are undetermined amounts of unmeasured return flow reaching the Colorado River by means of flow through aquifers connecting water use areas to the mainstream. Reclamation, working with the U.S. Geological Survey, is continuing the research and investigative program to determine the amounts of such unmeasured return flows.

Tabulations for calendar year 1993 do include acceptable determinations of the unmeasured Colorado River return flows to Lake Mead from Las Vegas Wash which accrue 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 recording of diversions, return flows, or consumptive use in this tabulation is for statistical use only and is not to be interpreted as an entitlement, indication that the use is authorized, or imply that return flow credits are associated with a specific entitlement.

DIVERIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1993  
STATE OF ARIZONA

FINAL RECORDS (ACRE-FEET)

WATER USER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL 1/
LAKE MEAD NAT'L RECREATION, AZ. DIVERIONS FROM LAKE MEAD (TEMPLE BAR)	4	6	8	13	20	23	26	33	23	23	14	7	200
LAKE MEAD NAT'L RECREATION, AZ. DIVERIONS FROM LAKE MOHAVE (DAVIS, KATHERINE, WILLOW BEACH)	12	11	15	22	32	37	48	47	37	33	20	16	330
L.C.R.D. PROJECT (DAVIS DAM) DIVERION AT DAVIS DAM	6	4	8	10	8	9	11	10	10	12	9	4	101
BULLHEAD CITY PUMPED FROM WELLS DIV. AT DAVIS DAM, MOHAVE CO. PARKS	346 23	319 20	412 4	595 6	708 9	716 13	811 18	831 15	579 9	539 8	458 8	423 5	6737 138
MOHAVE WATER CONSERVATION PUMPED FROM WELLS	369	339	416	601	717	729	829	846	588	547	466	428	6875
CONSOLIDATED WATER UTILITIES PUMPED FROM RIVER	28	23	29	38	44	53	58	55	55	42	39	33	497
MOHAVE VALLEY I. & D. DISTRICT PUMPED FROM WELLS	20	19	23	28	36	38	41	38	35	30	25	23	356
FORT MOHAVE INDIAN RESERVATION 6 PUMPS AND WELLS IN FLOOD PLAIN	473	603	2699	3319	4203	5028	6010	5273	3425	2979	1783	1825	37620
GOLDEN SHORES WATER CONSERVATION DIST PUMPED FROM WELLS	255	1289	4423	6273	7257	9875	11176	7158	4667	3457	2166	1578	59573
HAVASU NATIONAL WILDLIFE REFUGE INLET-NW NE NW SEC 33 T9N R5SW G&SRM WELL 8N/23E-15Aa (TOPOCK MARSH)	22	18	30	32	40	49	53	51	40	34	24	23	416
LAKE HAVASU IRRIGATION AND DRAINAGE DISTRICT PUMPED FROM WELLS	23	8	0	0	2260	10590	9630	7540	4540	4210	2440	0	41233
CENTRAL ARIZONA PROJECT PUMPED FROM LAKE HAVASU	0	0	0	0	0	0	0	2460	0	0	0	0	156
	31	7	11	12	2275	10608	9650	5099	4555	4223	2449	9	38929
	599	566	882	929	1286	1190	1711	1303	1284	1162	930	824	12666
	27671	4163	60176	123365	115743	123354	153489	117793	47001	32548	55095	164402	1024800

DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1993  
STATE OF ARIZONA

WATER USER	(ACRE- FEET)											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC TOTAL 1/
TOWN OF PARKER												
DIVERSED FROM RIVER	0	0	0	0	2	17	28	23	8	0	0	0
1 WELL-NW NW NW SEC 7 T9N R19W G&SRM	43	39	62	84	105	106	107	104	105	93	55	56
RETURNS	0	0	0	0	0	1	1	2	1	0	0	0
CONSUMPTIVE USE	43	39	62	84	107	122	134	125	112	93	55	56
COLORADO RIVER INDIAN RESERVATION												
DIVERSION AT HEADGATE ROCK DAM	982	9790	57750	68070	73790	81120	87720	70840	45920	38480	29620	39290
1 PUMP FROM RIVER (B-04-22)14 bbd	0	0	0	0	0	0	0	0	0	0	0	0
RETURNS	12459	10232	17507	21640	22312	23996	22677	23875	20902	19771	17740	18368
CONSUMPTIVE USE	-11477	-442	40243	46430	51478	57124	65043	46965	25018	18709	11880	20922
EHRENBURG IMPROVEMENT ASSN.												
1 PUMP SW SEC 3 T3N R22W G&SRM	19	15	20	30	34	36	46	40	34	28	20	22
RETURNS												
CONSUMPTIVE USE												
CIBOLA VALLEY IRRIGATION DISTRICT												
5 PUMPS SEC'S 20, 21 & 26T1N R23W	40	40	1644	2742	2369	3715	4658	2722	1749	1340	653	473
RETURNS												
CONSUMPTIVE USE												
CIBOLA NATIONAL WILDLIFE REFUGE												
3 PUMPS	635	509	868	937	1146	1389	1515	1458	1146	960	682	671
RETURNS												
CONSUMPTIVE USE												
IMPERIAL NATIONAL WILDLIFE REFUGE												
2 WELLS SEC 13 T5S R22W G&SRM	483	384	655	707	865	1049	1144	1101	865	725	515	507
RETURNS												
CONSUMPTIVE USE												
YUMA PROVING GROUND												
DIVERSION AT IMPERIAL DAM	0	5	4	3	0	0	1	1	2	1	0	0
RETURNS	0	0	0	0	0	0	0	0	0	0	0	0
CONSUMPTIVE USE	0	5	4	3	0	0	1	1	2	1	0	0
STURGES												
DIVERSION AT IMPERIAL DAM	99	109	342	372	525	621	841	371	186	730	261	260
(WARREN ACT)	44	11	21	15	11	11	12	7	2	16	21	12
RETURNS	55	98	321	357	514	610	829	364	184	714	240	248
CONSUMPTIVE USE												
WELLTON MOHAWK I. & D. DISTRICT												
DIVERSION AT IMPERIAL DAM	2857	10411	19688	32278	29521	35981	36820	30826	35293	27744	20308	18254
RETURNS	12336	5557	6998	8610	12100	12525	11578	11846	12491	13898	10408	12007
CONSUMPTIVE USE	-9479	4854	12690	23668	17421	23456	25242	18980	22802	13846	9900	6247
CITY OF YUMA												
DIVERSION AT IMPERIAL DAM (AAC)	1201	1109	1454	1721	2050	2227	2297	2363	2097	1943	1615	1562
DIVERSION AT IMPERIAL DAM (GILA)	43	45	60	54	59	60	64	64	62	36	27	21
RETURNS	748	816	1070	735	1012	808	894	737	545	605	639	683
CONSUMPTIVE USE	496	338	444	1040	1097	1479	1467	1690	1614	1374	1003	900
MARINE CORPS AIR STATION (YUMA)												
DIVERSION AT IMPERIAL DAM	63	89	43	114	224	233	269	224	201	174	86	61
RETURNS												
CONSUMPTIVE USE												
SOUTHERN PACIFIC COMPANY												
DIVERSION AT IMPERIAL DAM	4	4	4	4	4	4	4	4	4	4	4	4
RETURNS												
CONSUMPTIVE USE												

DIVERIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1993  
STATE OF ARIZONA

WATER USER	(ACRE- FEET)												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC TOTAL 1/	
YUMA MESA FRUIT GROWERS ASSN. DIVERSION AT IMPERIAL DAM	1	1	1	1	1	1	1	1	1	1	1	12	
UNIVERSITY OF ARIZONA DIVERSION AT IMPERIAL DAM (WARREN ACT)	30	38	52	85	56	44	69	56	47	92	53	662	
YUMA UNION HIGH SCHOOL DIVERSION AT IMPERIAL DAM	21	27	4	5	4	5	46	41	35	20	15	238	
CAMILLE, ALEC. JR. DIVERSION AT IMPERIAL DAM (WARREN ACT)	0	2	5	0	2	3	4	2	1	0	0	19	
DESERT LAWN MEMORIAL DIVERSION AT IMPERIAL DAM	1	3	9	10	15	20	20	19	16	9	3	127	
NORTH GILA VALLEY IRRIGATION DISTRICT DIVERSION AT IMPERIAL DAM 7/	1138 972 166	1915 976 939	3838 1720 2118	5175 2382 2793	4213 1998 2215	3553 1845 1708	2405 1547 858	1764 1244 520	4607 2331 2276	4883 2931 1952	2587 1960 627	2533 1787 746	38611 21693 16918
YUMA IRRIGATION DISTRICT DIVERSION AT IMPERIAL DAM 7/ PUMPED FROM PRIVATE WELLS	1274 461 1146 589	1744 671 1004 1411	4949 823 1626 4146	6021 651 1551 5121	5826 161 1115 4872	3770 736 1133 3373	3834 764 1204 3394	3956 648 1058 3546	7636 860 1601 6895	6396 757 1517 5636	4174 739 1520 3393	2863 812 1076 2599	52443 8083 15551 44975
YUMA MESA I. & D. DISTRICT DIVERSION AT IMPERIAL DAM 7/	1855 2948 -1093	8315 2986 5329	18539 3951 14588	23035 3682 19353	26620 4226 22394	28863 3790 25073	30726 3436 27290	29673 3096 26377	22707 1652 21055	17761 2450 15311	10066 2567 7499	10187 2581 7606	228347 37365 190982
UNIT "B" I. & D. DISTRICT DIVERSION AT IMPERIAL DAM 7/	547 642 -95	1110 475 635	2810 655 2155	3155 594 2561	3335 702 2633	3441 623 2818	3752 571 3181	3578 499 3079	3038 277 2761	2525 411 2114	1535 425 1110	1584 441 1143	30410 6315 24095
YUMA COUNTY WATER USERS ASSOCIATION DIVERSION AT IMPERIAL DAM PUMPED FROM WELLS 7F/	6422 457 8976 -2097	10970 489 9780 1679	22588 544 10548 12584	33670 534 11811 22393	33903 453 10588 23768	27663 486 8697 19452	25689 534 8560 17663	22075 443 8600 13918	26798 374 9545 17627	48336 347 13188 35495	22794 559 11207 9969	18067 509 11207 7369	298975 5729 124884 179820
COCOPAH INDIAN RESERVATION DIVERSION AT IMPERIAL DAM PUMPED FROM WELLS 7F/	0 533 0 533	116 432 6 542	188 733 5 916	212 789 4 997	240 964 6 1198	21 1165 1 1185	126 1273 4 1395	21 1223 0 1244	158 963 5 1116	406 808 9 1205	48 573 2 619	52 564 2 614	1588 10020 44 11564
PUMPED FROM SOUTH GILA WELLS (DPOC'S) RETURNS 5/	4566	4453	3325	3791	4589	4222	4105	4208	3308	3955	3189	1642	45353

DIVERSTIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1993  
STATE OF ARIZONA

	(ACRE-FEET)												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL 1/
FINAL RECORDS													
WATER USER													
OTHER USERS PUMPING FROM COLORADO RIVER AND WELLS IN FLOOD PLAIN DAVIS DAM TO INTERNATIONAL BOUNDARY	1866	1495	2549	2752	3365	4079	4449	4282	3364	2819	2003	1971	35013
ARIZONA TOTALS													
DIVERSION 6/ RETURNS	50565	56925	208946	317853	321513	351401	392308	318089	219997	202508	162016	269553	2871673
CONSUMPTIVE USE	44837	36296	47426	54815	58659	57652	54589	57632	52660	58751	51855	49806	624978
	5728	20629	161520	263038	262854	293749	337719	260457	167337	143757	110161	219747	2246695

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.

- 1/ No surface returns unless shown.
  - 2/ Reported annual total only, distributed monthly according to nearby users.
  - 3/ Calculated by assuming an annual diversion of 6 ac-ft per irrigated acre.
  - 4/ Calculated using monthly power records.
  - 5/ Pumped from underground and credited as return flow to Yuma Mesa Division but unassigned to districts as returns.
  - 6/ Includes quantities of drainage from Yuma Mesa, Unit B, as well as from South Gila Valley.
  - 7/ Details on Arizona Supplemental Sheets.
- Summation for the Yuma Mesa Division, 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/ Pumped from wells	319401
Surface returns from South Gila Valley (S.Gila Canal Wasteway)	8083
Return flow North Gila Valley (6 drains & wasteways)	5122 *
Return flow South Gila Valley wells (DPOC's)	5801 *
Return flow Yuma Mesa Outlet Drain B/	45353
Return flow protective and regulatory pumping Unit C/	20630 *
Estimated unmeasured groundwater return flow D/	5454 *
Return flow share of Gila Main Canal loss E/	22014
Subtotal return flow F/	15387 *
Consumptive Use (see note above)	119961 119962 check sum from above
(A) Total for the North Gila Valley, The Yuma Irrigation and the Yuma Mesa Irrigation and Drainage Districts, and 'Unit B'.	207523 207522 check sum from above
(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*mitage weighted share of Gila Main Canal loss less canal surface evaporation (1397 acft/yr) and phreatophytes (2154 acft/yr).	
(F) Additional unmeasured amounts of 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.	

PUMPAGE FROM COLORADO RIVER  
AND WELLS IN FLOOD PLAIN  
DAVIS DAM TO INTERNATIONAL BOUNDARY  
CALENDAR YEAR 1993  
STATE OF ARIZONA

FINAL RECORDS		(ACRE-FEET)												
WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL 1/
Rayner, Jack Jr.	(B-04-22)34 DCC(DDD) 3/	218.6	175.1	298.6	322.3	394.1	477.8	521.2	501.6	394.1	330.1	234.6	230.9	4101.0
Rayner, Jack Jr.	(B-04-22)34 DCC(DCD) 3/	25.4	20.4	34.7	37.5	45.8	55.6	60.6	58.3	45.8	38.4	27.3	26.9	477.0
Rayner Water	(B-03-22)03 bac	18.3	14.7	25.0	27.0	33.1	40.1	43.7	42.1	31.1	27.7	19.7	19.4	344.0
Arakelian, George	(B-03-22)16 DBD(BAD) 3/	117.4	94.0	160.3	173.1	211.6	256.5	279.9	269.3	211.6	177.3	126.0	124.0	2202.0
Pratt, L.	Sec14 T7S R22W ABC 2/3/	22.4	17.9	30.6	33.0	40.4	48.9	53.4	51.4	40.4	33.8	24.0	23.6	420.0
Dulin, A.	(C-8-22) 7CCD 3/	21.0	16.8	28.7	31.0	37.9	45.9	50.1	48.2	37.9	31.7	22.5	22.2	394.0
Magco of AZ	(C-8-22) 18C8D 3/	17.2	13.8	23.5	25.4	31.0	37.6	41.1	39.5	31.0	26.0	18.5	18.2	323.0
Magco of AZ	(C-8-22) 24BDD 3/	64.0	51.2	87.4	94.3	115.3	139.8	152.5	146.8	115.3	96.6	68.6	67.6	1200.0
Auza, Pete	SEC24 T08S R22W BDD 3/	69.0	55.3	94.3	101.8	124.4	150.9	164.6	158.4	124.4	104.2	74.1	72.9	1295.0
Auza, Pete	(C-8-22) 18DDD 3/	38.4	30.7	52.4	56.6	69.2	83.9	91.5	88.1	69.2	58.0	41.2	40.5	720
Yowelman, R.	SEC17 T08S R22W CCB 2/3/	51.2	41.0	69.9	75.5	92.3	111.8	122.0	117.4	92.3	77.3	54.9	54.0	960.0
Cameron Bros.	SEC24 T08S R22W CCB 3/	26.8	21.5	36.6	39.5	48.3	58.6	63.9	61.5	48.3	40.5	28.8	28.3	503.0
Ott, Judd T.	SEC30 T08S R22W BAB 3/	12.6	10.1	17.3	18.6	22.8	27.6	30.1	29.0	22.8	19.1	13.6	13.3	237.0
Ott, Judd T.	(C-8-22) 19CCA 3/	32.5	26.0	44.3	47.9	58.5	70.9	77.4	74.5	58.5	49.0	34.8	34.3	609.0
Cameron Bros	SEC24 T08S R22W CAD 3/	20.0	16.1	27.4	29.6	36.1	43.8	47.8	46.0	36.1	30.3	21.5	21.2	376.0
Ott	SEC24 T08S R23W DCC 3/	42.1	33.7	57.4	62.0	75.8	91.9	100.3	96.5	75.8	63.5	45.1	44.4	789.0
Peach	SEC22 T08S R23W DDC 3/	7.4	5.9	10.0	10.8	13.3	16.1	17.5	16.9	13.3	11.1	7.9	7.8	138.0
AZ Prod	SEC23 T08S R23W CDA 3/	4.1	3.3	5.6	6.1	7.4	9.0	9.8	9.4	7.4	6.2	4.4	4.3	77.0
Yucca Pwr Plant	SEC36 T16S R12E CBA 3/	19.8	15.8	27.0	29.2	35.7	43.2	47.2	45.4	35.7	29.9	21.2	20.9	371.0
Slade, Dwane	SEC28 T16S R22E CDA 3/	7.1	5.7	9.7	10.5	12.8	15.5	16.9	16.3	12.8	10.7	7.6	7.5	133.0
Curry Farms	SEC29 T16S R22E DAC 3/	7.2	5.8	9.8	10.6	13.0	15.7	17.2	16.5	13.0	10.9	7.7	7.6	135.0
Power, R.E. & P.	SEC30 T16S R22E ACC 2/3/	151.9	121.7	207.5	224.0	273.9	332.0	362.2	348.6	273.9	229.4	163.0	160.5	2850.0
Hall, Ansil	SEC36 T16S R21E BCB 2/3/	23.0	18.4	31.4	34.0	41.5	50.3	54.9	52.8	41.5	34.8	24.7	24.3	432.0
Burrell	SEC33 T08S R24W BAB 2/3/	16.0	12.8	21.8	23.6	28.8	35.0	38.1	36.7	28.8	24.2	17.2	16.9	300.0
Huerta Packing	16S/21E-25Ha 3/	60.9	48.8	83.1	89.8	109.7	133.0	145.1	139.7	109.7	91.9	65.3	64.3	1142.0
Cocopah Bend RV	16S/22E-30Fb 3/	18.1	14.5	24.8	26.7	32.7	39.6	43.2	41.6	32.7	27.4	19.4	19.1	340.0
Pacific Coast Fm	SEC19 T09S R24W BAD 3/	43.3	34.7	59.1	63.8	78.0	94.6	103.2	99.3	78.0	65.4	46.4	45.7	812.0
Pacific Coast Fm	(C-9-24) 19BDD 3/	37.2	29.8	50.8	54.9	67.1	81.3	88.7	85.4	67.1	56.2	39.9	39.3	698.0
Pacific Coast Fm	(C-9-24) 198DA 3/	23.3	18.7	31.9	34.4	42.1	51.0	55.7	53.6	42.1	35.3	25.1	24.7	438.0
Consoul, Lee	SEC31 T09S R24W AAA 3/	37.0	29.7	50.6	54.6	66.8	81.0	88.3	85.0	66.8	55.9	39.8	39.1	695.0
Waynon Farms	(C-9-24) 31BBA 3/	33.2	26.6	45.3	48.9	59.8	72.5	79.1	76.1	59.8	50.7	36.0	35.5	622.0
W. Brand-D. Donnelly	(C-9-25) 35ABA 2/3/	33.6	26.9	45.9	49.5	60.5	73.4	80.1	77.0	60.5	50.7	36.0	35.5	630.0
J W Cuming	(C-10-25) 18BA 3/	108.0	86.6	147.6	159.3	194.8	236.1	257.6	247.9	194.8	163.2	115.9	114.1	2027.0
P. Sibley	(C-10-25) 20DA 2/3/	103.9	83.3	142.0	153.3	187.4	227.2	247.8	238.5	187.4	157.0	111.5	109.8	1950.0
J W Cuming	(C-10-25) 14AD8 3/	44.5	35.6	60.7	65.6	80.1	97.2	106.0	102.0	80.1	67.1	47.7	47.0	834.0
C & J Cummings	(C-10-25) 26BAB 2/3/	25.6	20.5	34.9	37.7	46.1	55.9	61.0	58.7	46.1	38.6	27.5	27.0	480.0
J. Barkley	(C-10-25) 35CBA 2/3/	25.6	20.5	34.9	37.7	46.1	55.9	61.0	58.7	46.1	38.6	27.5	27.0	480.0
J W Cuming	(C-11-25) 28BA 3/	49.2	39.4	67.2	72.5	88.7	107.5	117.3	112.9	88.7	74.3	52.8	52.0	923.0
Hughes, Earl	(C-11-25) 30AC 3/	89.8	71.9	122.7	132.4	161.9	196.3	214.2	206.1	161.9	135.6	96.4	94.9	1685.0
Hayasu Water Co. (AZ)		20.0	16.0	27.3	29.5	36.0	43.7	47.7	45.9	36.0	30.2	21.5	21.1	375.0
Hillcrest Water Co.		1.0	1.1	1.3	1.5	2.2	2.9	3.3	3.3	2.2	1.9	1.5	1.0	19.0
Bureau of Land Management		7.9	6.3	10.8	11.7	14.3	17.3	18.9	18.2	14.3	12.0	8.5	8.4	148.5
*** Total Arizona Supplemental ***		1866	1495	2549	2752	3365	4079	4449	4282	3364	2819	2003	1971	35013

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/ Reported annual total only, distributed monthly according to nearby users.



DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1993  
STATE OF CALIFORNIA

WATER USER	(ACRE-FEET)												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL 1/
FINAL RECORDS													
FORT MOHAVE INDIAN RESERVATION PUMPED FROM RIVER AND WELLS	95	0	457	2538	3103	2837	3518	3017	1284	658	798	421	18725
CITY OF NEEDLES 4 WELLS NW SW SEC 29 T9N R23E SBM	183	144	169	292	407	481	481	477	409	295	230	142	3709
METROPOLITAN WATER DISTRICT DIVERSION FROM LAKE HAVASU	124	101	117	172	231	260	269	271	235	180	143	105	2207
PARKER DAM AND GOVERNMENT CAMP DIVERSION AT PARKER DAM	59	44	52	120	176	220	211	206	174	115	87	37	1502
COLORADO RIVER INDIAN RESERVATION PUMPED FROM 11 PUMPS AND WELLS 4 PUMPS BIG RIVER	96127	75305	55497	107767	111286	107108	111885	110537	108843	110613	102199	110164	1207331
CITY OF WINTERHAVEN 1 WELL SE SE NE SEC 27 T16S R22E SBM	348	299	279	296	262	245	247	261	238	259	289	305	3328
PALO VERDE IRRIGATION DISTRICT DIVERSION FROM PALO VERDE DAM	95779	75006	55218	107471	111024	106863	111638	110276	108605	110354	101910	109859	1204003
YUMA PROJECTS, RES. DIV. INDIAN UNIT DIVERSION AT IMPERIAL DAM	13	13	18	24	30	37	38	35	38	22	9	6	283
YUMA PROJECTS, RES. DIV. BARD UNIT DIVERSION AT IMPERIAL DAM	0	0	0	0	0	0	0	0	0	0	0	0	0
RETURNS FROM YUMA PROJECT RESERVATION DIVISION RETURNS SUM YUMA PROJECTS, RES. DIV. USE	50	676	1108	985	860	958	1544	877	116	219	198	196	7787
IMPERIAL IRRIGATION DISTRICT DIVERSION AT IMPERIAL DAM	6	5	9	9	12	14	15	15	12	10	7	6	120
COACHELLA VALLEY WATER DISTRICT DIVERSION AT IMPERIAL DAM	6340	21130	59510	77360	85030	89130	98220	84860	69170	57410	38690	50250	737100
	17559	24519	29159	33046	37451	38182	39044	40171	37896	38335	33134	34137	402633
	-11219	-3389	30351	44314	47579	50948	59176	44689	31274	19075	5556	16113	334467
	60	5067	6348	10104	13412	13412	16631	8733	9120	3487	2652	3963	92989
	988	2337	3886	6319	4774	3664	2772	2931	4214	6548	3728	3314	45475
	62	83	87	97	95	72	64	54	116	122	152	80	1084
	926	2254	3799	6222	4679	3592	2708	2877	4098	6426	3576	3234	44391
	408	1619	4896	6672	7033	5371	4828	3650	4537	6177	2870	3449	51510
	13	36	65	61	86	64	69	40	74	69	69	51	697
	395	1583	4831	6611	6947	5307	4759	3610	4463	6108	2801	3398	50813
	3306	1931	2653	2894	3374	3631	3347	2282	2778	4093	3803	3488	37580
	-1985	1906	5977	9939	8252	5268	4120	4205	5783	8441	2574	3144	57624
	41563	98010	304247	351678	331066	313816	326906	307728	254544	250712	149725	156570	2886565
	3798	6777	11878	9628	11611	10740	13005	9895	12041	7874	10495	6675	114447
	37765	91233	292369	342050	319455	303076	313901	297833	242503	242838	139230	149895	2772148
	9082	10894	27676	35671	38643	36069	36771	38495	33946	25742	22853	16812	332654
	830	753	1081	977	1355	1234	1463	1238	1606	808	1602	717	13664
	8252	10141	26595	34694	37288	34835	35308	37257	32340	24934	21251	16095	318990

DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1993  
STATE OF CALIFORNIA

FINAL RECORDS	(ACRE- FEET)												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL 1/
WATER USER													
OTHER USERS PUMPING FROM COLORADO RIVER AND WELLS IN FLOOD PLAIN DAVIS DAM TO INTERNATIONAL BOUNDARY	950	1005	2524	2939	2540	2568	2920	2554	2119	2643	1927	1690	26381
CALIFORNIA TOTALS													
DIVERSION 5/ RETURNS	155805	211138	459998	592254	584784	562053	589897	555176	479232	461048	323233	343020	5317638
CONSUMPTIVE USE	26040	34499	45319	47171	54465	54428	57508	54212	54984	51740	49687	45558	575610
WATER MANAGEMENT ACCT. CREDITS 8/	129765	176640	414678	545083	530319	507625	532389	500964	424248	409309	273547	297462	4742028
TOTAL USE	60	5067	6348	10104	13412	13412	16631	8733	9120	3487	2652	3963	92989
	129825	181707	421026	555187	543731	521037	549020	509697	433368	412796	276199	301425	4835017
WATER CONSERVATION PROGRAM IMPERIAL I. D./METROPOLITAN W. D. CONSERVED WATER 9/	2500	2886	4232	6349	6349	5772	6349	5194	5002	4425	3463	2309	54830

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.

- 1/ No surface returns unless shown.
- 2/ Estimate based on measured regulatory reservoirs seepage returns 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 nearby users.
- 7/ Calculated by assuming an annual diversion of 6 ac-ft per irrigated acre.
- 8/ PVID/MWD land fallow test program of 20,215 acres with 4.6 acft/ac of use in 1993. Water is accounted as used in the year saved and stored for the exclusive future use of MWD and not to be additive to current year MWD diversions. Current total account credits deposited less this years diversions of 0 acre-feet is 121290 acre-feet.
- 9/ IID/MWD Water Conservation Program Phase 1 conserved water made available by IID for diversion in current year by MWD. Amount made available and diverted by MWD in 1990 was 6,110 acre-feet, 1991 was 26,700 acre-feet, and 1992 was 33,929 acre-feet.
- 10/ Needles total return estimated as 40% of diversion plus measured returns (unpublished report, Colorado River Board of California). This years Needles values not reported. Diversion and return values estimated as 110% of 1992 values. Years 1990-1992 revised below.

PUMPAGE FROM COLORADO RIVER  
AND WELLS IN FLOOD PLAIN  
DAVIS DAM TO INTERNATIONAL BOUNDARY  
CALENDAR YEAR 1993  
STATE OF CALIFORNIA

WATER USER	FINAL RECORDS	(ACRE-FEET)												
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC TOTAL 1/	
Ida Cal	11M/22E -31Cb	0.0	0.0	0.0	88.8	103.4	71.5	110.2	103.5	111.3	68.5	64.9	0.8	722.9
Ida Cal	11M/21E -36Hd	0.0	0.0	0.0	88.1	94.4	112.8	135.3	108.8	50.7	95.6	48.9	49.5	784.1
Russell Bros.	11M/21E -36Pa	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	9N/23E -29qa	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
Lye, C. L.	1S/24E -16Gb	1.6	1.3	2.2	2.4	2.9	3.5	3.8	3.7	2.9	2.4	1.7	1.7	30.0
Land, Ralph	SEC35 T16S R23E DDC	0.0	45.3	52.0	100.6	75.4	33.5	3.4	6.7	58.7	36.9	26.8	10.1	449.4
Living Earth Firm	SEC35 T16S R23E BBC	11.3	4.1	7.3	10.5	9.7	11.3	3.2	13.8	7.3	23.5	30.0	20.5	152.5
Land, Ralph	SEC22 T16S R23E BDD	39.2	67.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	106.4
Power, Pete	SEC14 T16S R23E CCB	108.7	87.1	148.5	160.3	196.0	237.7	259.3	249.5	196.0	164.2	116.7	114.9	2040.0
Dulin, A.	(C-8-22) 8DAC	3.3	2.6	4.4	4.8	5.9	7.1	7.8	7.5	5.9	4.9	3.5	3.4	61.0
Dulin, A.	(C-8-22) 9CCC	48.4	38.8	66.1	71.4	87.3	105.8	115.4	111.0	87.3	73.1	51.9	51.1	908.0
Spencer, Mindle	(C-8-22) 6CDA	67.8	87.2	208.9	315.5	250.4	190.9	269.8	171.6	182.6	273.9	208.9	167.4	2394.9
H & S Farms	(C-8-22) 7BAB	25.9	45.8	121.1	217.9	176.4	126.2	192.8	81.3	33.7	138.4	80.4	106.4	1346.3
Ed Wavers Farms	(C-8-22) 6BCD	12.8	10.2	17.5	18.9	23.1	28.0	30.5	29.4	23.1	19.3	13.7	13.5	240.0
Ed Wavers Farms	(C-8-22) 6CBD	77.8	93.4	216.2	193.7	167.8	299.2	292.3	211.9	103.8	69.2	138.4	195.4	2059.1
Ed Wavers Farms	(C-8-22) 6CCA	89.1	99.4	209.3	117.6	185.1	211.9	299.2	134.9	109.0	89.1	48.4	122.8	1715.8
Spencer, M.	SEC9 T16S R23E CAC	60.2	18.1	8.8	48.4	53.3	11.6	7.8	58.6	56.6	137.0	85.3	89.9	635.6
Wavers, Edward M.	(C-8-23) 1BBA	17.5	5.8	37.9	23.3	17.5	35.0	43.7	37.9	17.5	11.7	0.0	2.9	250.7
Wavers, Edward M.	(C-8-23) 1BAD	9.4	11.8	28.3	2.4	11.8	47.1	33.0	28.3	2.4	0.0	0.0	2.4	176.9
Schaffer, F. (Harp)	(C-8-23) 2ADC	17.6	14.1	24.0	25.9	31.7	82.4	41.9	40.4	31.7	26.6	18.9	18.6	330.0
Taylor Bros	(C-8-23) 2DDA	3.0	1.5	112.5	179.2	151.0	82.9	22.2	51.8	152.5	158.4	54.8	19.3	989.1
Easterday, Kitti	(C-8-23) 1DCC	60.9	2.8	92.7	103.8	16.6	13.8	0.0	0.0	0.0	0.0	0.0	0.0	290.6
Dees, Alex	(C-8-23) 1DAC	23.5	40.1	146.7	193.7	75.5	261.5	289.2	233.8	211.7	127.3	66.4	65.0	1894.1
Harp, P. (R. Harp)	(C-8-23) 12DAC	51.2	41.0	69.9	75.5	92.3	111.8	122.0	117.4	92.3	77.3	54.9	54.0	940.0
Easterday, K.	(C-8-23) 12CDB	8.4	6.7	232.6	214.0	330.3	337.0	360.6	249.4	188.7	129.8	156.7	59.0	2273.2
Harp, (R. Harp)	(C-8-23) 13AAD	32.0	25.6	43.7	47.2	57.7	69.9	76.3	73.4	57.7	48.3	34.3	33.8	600
Smith, F. (P. Power)	(C-8-23) 11DCA	63.6	51.2	121.8	83.0	0.0	2.8	69.2	1.4	76.1	258.7	213.1	41.5	982.4
Valdez, Mike	T16S R23E SEC 30EC	0.0	42.9	250.4	238.0	43.6	0.0	0.0	161.9	31.8	199.2	160.5	226.9	1355.2
Valdez, Mike	T16S R23E SEC 30FD	59.5	114.8	222.8	229.7	24.9	0.0	0.0	148.0	124.5	322.4	186.8	152.2	1585.6
Havasu Water Company (CA)	T5N R25E SEC31	2.9	2.4	3.8	4.8	6.3	8.8	9.2	7.6	6.2	5.7	4.3	3.7	65.7
Picacho Development Corp		7.6	6.1	10.6	11.0	6.1	6.1	10.3	2.9	12.4	11.0	6.3	13.8	104.2
Wetmore, Kenneth C.	2/3/4/	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
Wetmore, Mark M.	2/3/4/	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
Sherman, Margaret T.	2/3/4/	1.3	1.0	1.7	1.9	2.3	2.8	3.0	2.9	2.3	1.9	1.4	1.3	23.9
Williams, Jerry 3/		0.1	0.0	0.0	0.0	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.1	1.2
Lindeman, William H. & Hazel D.		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
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
Andrade, Dorothy L.	3/4/	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	1.8
Bureau of Land Management		45.0	36.1	61.5	66.4	81.1	98.4	107.3	103.3	81.1	68.0	48.3	47.5	844.3
*** Total California Supplemental ***		950	1005	2524	2939	2540	2568	2920	2554	2119	2643	1927	1690	26381

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 nearby users.



DIVERIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1993  
STATE OF NEVADA

	FINAL RECORDS												DEC TOTAL 1/
	(ACRE-FEET)												
WATER USER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
OTHER USERS PUMPING FROM COLORADO RIVER AND WELLS IN FLOOD PLAIN DAVIS DAM TO CALIFORNIA BOUNDARY	2	1	2	2	3	3	4	4	3	2	2	2	30
NEVADA TOTALS	20315	18684	23701	26985	32527	31678	34743	33729	29438	32405	26287	25069	335561
DIVERSION RETURNS	12669	10818	12040	11362	10797	9953	9336	9954	8648	11565	12018	11999	131159
CONSUMPTIVE USE	7646	7866	11661	15623	21730	21725	25407	23775	20790	20840	14269	13070	204402
GROUNDWATER INJECTED STORAGE 5/	4132	3596	3009	1461	1086	0	0	0	0	1541	3865	5179	23869
LAS VEGAS VALLEY WATER DIST.	0	0	0	0	0	0	0	0	0	0	0	0	0
CITY OF NORTH LAS VEGAS	122	105	33	16	16	0	0	0	0	140	125	110	667
	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.

- 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/ Beginning of year cumulative injected storage of 47019 AF plus current year increase in injected storage of 24536 AF less current year withdrawals from injected storage of 0 AF yields year end total of 71555 AF injected storage.

PUMPAGE FROM COLORADO RIVER  
AND WELLS IN FLOOD PLAIN  
DAVIS DAM TO INTERNATIONAL BOUNDARY  
CALENDAR YEAR 1993  
STATE OF NEVADA

FINAL RECORDS (ACRE- FEET)

WATER USER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL 1/
Sportsman Park (Clark Co. Parks) 2/	1.1	0.9	1.5	1.6	1.9	2.3	2.5	2.4	1.9	1.6	1.1	1.1	20.0
Boy Scouts of America SEC5 T33S R66E 2/	0.5	0.4	0.7	0.8	0.9	1.1	1.2	1.2	0.9	0.8	0.6	0.6	9.8
*** Total Nevada Supplemental ***	2	1	2	2	3	3	4	4	3	2	2	2	30

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

2/ Reported annual total only, distributed monthly according to nearby users.

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 DATED MARCH 9, 1964

CALENDAR YEAR 1993

The following tabulations for calendar year 1993 show records of releases of mainstream water pursuant to orders thereto, 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 decreed rights. Also shown are quantities of such rejected water delivered to Mexico in excess of treaty requirements and quantities delivered to storage. The quantities delivered to storage were available to release for future use.

Water ordered but not diverted was analyzed daily for each diverter as the positive difference between the finally 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 positive quantities. Final approval of daily orders was given in advance of the delivery date by the amount of travel time involved in conveying the water from the storage point to the diversion point on 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 were scheduled based on Mexico's daily orders. Releases from storage were scheduled in sufficient quantities, which when added to return flows, would 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.

To date, no 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  
 AND  
 CALENDAR YEAR 1993  
 STATE OF ARIZONA

WATER USER	(ACRE- FEET)												TOTAL
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
FINAL RECORDS	24136	4737	12859	10853	15193	8368	5450	38641	20684	7852	21881	13435	184089
CENTRAL ARIZONA PROJECT DIVERSION AT LAKE HAVASU	24136	4737	12859	10853	15193	8368	5450	38641	20684	7852	21881	13435	184089
ORDERED BUT NOT DIVERTED 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/ 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	0	530	0	936	1170	2876	1894	2821	1454	930	688	809	14108
ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	0	530	0	936	1170	2876	1894	2821	1454	930	688	809	14108
DIVERTED BY OTHERS	0	0	0	0	0	0	0	0	0	0	0	0	0
DELIVERED TO STORAGE 2/ 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	1876	1476	2112	2279	3007	1444	2356	1422	1803	3416	2850	1793	25834
ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	1876	1476	2112	2279	3007	1444	2356	1422	1803	3416	2850	1793	25834
DIVERTED BY OTHERS	208	476	692	1220	924	801	1301	214	966	772	391	545	8510
DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	1378	960	1420	1059	2083	643	1055	1208	837	2644	2459	1248	16994
STURGES (WARREN ACT) GILA PROJECT DISTRICTS DIVERSION AT IMPERIAL DAM 1/	290	40	0	0	0	0	0	0	0	0	0	0	330
ORDERED BUT NOT DIVERTED 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/ 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	2955	3779	3285	1634	3747	2182	2023	5584	5024	5599	6928	2378	45118
ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	2955	3779	3285	1634	3747	2182	2023	5584	5024	5599	6928	2378	45118
DIVERTED BY OTHERS	244	159	555	226	434	700	476	615	284	603	208	262	4766
DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	2183	3432	2730	1408	3313	1482	1547	4969	4740	4996	6720	2116	39636
YUMA IRRIGATION DISTRICT DIVERSION AT IMPERIAL DAM	528	188	0	0	0	0	0	0	0	0	0	0	716
ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	430	647	210	123	204	252	109	260	363	415	855	506	4374
DIVERTED BY OTHERS	20	54	89	79	28	155	42	32	161	63	36	147	906
DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	192	571	121	44	176	97	67	228	202	352	819	359	3228
	218	22	0	0	0	0	0	0	0	0	0	0	240

RELEASE OF MAINSTREAM WATER PURSUANT TO ORDERS  
 BUT NOT DIVERTED BY PARTY ORDERING SAME  
 AND  
 QUANTITY OF SUCH WATER DELIVERED TO MEXICO IN SATISFACTION OF MEXICAN TREATY OR DIVERTED BY OTHERS  
 CALENDAR YEAR 1993  
 STATE OF ARIZONA

WATER USER	FINAL RECORDS												TOTAL
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
YUMA MESA I. & D. DISTRICT DIVERSION AT IMPERIAL DAM	811	2959	2271	3529	1904	1285	1950	1386	2557	3251	3838	1507	27248
ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	79	444	740	1970	282	627	859	276	708	460	488	214	7147
DIVERTED BY OTHERS	573	2156	1531	1559	1622	658	1091	1110	1849	2791	3350	1293	19583
DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	159	359	0	0	0	0	0	0	0	0	0	0	518
UNIT "B" I. & D. DISTRICT DIVERSION AT IMPERIAL DAM	381	587	307	526	383	422	468	563	778	460	799	343	6017
ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	34	177	8	220	73	119	252	186	105	87	77	123	1461
DIVERTED BY OTHERS	240	354	299	306	310	303	216	377	673	373	722	220	4393
DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	107	56	0	0	0	0	0	0	0	0	0	0	163
YUMA COUNTY WATER USERS ASSN. DIVERSION AT IMPERIAL DAM	1470	3398	4778	2360	4814	2087	4608	3796	3798	2212	8037	5947	47305
ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	377	766	2775	1424	3055	1726	3033	1706	2067	1139	2942	2341	23351
DIVERTED BY OTHERS	163	2420	2003	936	1759	361	1575	2090	1731	1073	5095	3606	22812
DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	930	212	0	0	0	0	0	0	0	0	0	0	1142
ARIZONA TOTALS	32059	18113	25822	22240	30422	18916	18858	54473	36461	24135	45876	26718	354093
ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	962	2421	4859	5960	5141	6379	7209	4503	5023	3796	4683	3824	54760
DIVERTED BY OTHERS	28865	14815	20963	16280	23281	12537	11649	49970	31438	20339	41193	22894	296224
DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	2232	877	0	0	0	0	0	0	0	0	0	0	3109

1/ No order received.  
 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  
CALENDAR YEAR 1993  
STATE OF CALIFORNIA

WATER USER	FINAL RECORDS												TOTAL
	(ACRE- FEET)												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
METROPOLITAN WATER DISTRICT DIVERSION AT LAKE HAVASU	4749	11758	3352	2328	323	1699	1103	1721	1043	1940	1346	2388	33750
ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	4749	11758	3352	2328	323	1699	1103	1721	1043	1940	1346	2388	33750
DIVERTED BY OTHERS	0	0	0	0	0	0	0	0	0	0	0	0	0
DELIVERED TO STORAGE 1/ 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	8376	85	1141	1801	2356	2698	1111	2212	952	119	857	1355	23063
ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	8376	85	1141	1801	2356	2698	1111	2212	952	119	857	1355	23063
DIVERTED BY OTHERS	1325	36	524	1148	1859	2263	559	859	645	103	549	490	10360
DELIVERED TO STORAGE 1/ DELIVERED TO MEXICO IN EXCESS OF TREATY	7051	35	617	653	497	435	552	1353	307	16	308	865	12689
YUMA PROJECT RES. DIVISION DIVERSION AT IMPERIAL DAM	5022	2168	506	454	1628	726	1934	2811	1390	309	3471	1414	21833
ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	5022	2168	506	454	1628	726	1934	2811	1390	309	3471	1414	21833
DIVERTED BY OTHERS	871	545	280	369	899	672	1349	1537	787	202	1357	516	9384
DELIVERED TO STORAGE 1/ DELIVERED TO MEXICO IN EXCESS OF TREATY	2925	1538	226	85	729	54	585	1274	603	107	2114	898	11138
IMPERIAL IRRIGATION DISTRICT DIVERSION AT IMPERIAL DAM	1226	85	0	0	0	0	0	0	0	0	0	0	1311
ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	1226	85	0	0	0	0	0	0	0	0	0	0	1311
DIVERTED BY OTHERS	7545	7131	10098	2275	2436	657	2023	1281	1144	609	9039	7103	51341
DELIVERED TO STORAGE 1/ DELIVERED TO MEXICO IN EXCESS OF TREATY	668	714	2779	1291	990	464	783	355	309	286	724	960	10323
COACHELLA VALLEY WATER DIST. DIVERSION AT IMPERIAL DAM	4025	5881	7319	984	1446	193	1240	926	835	323	8315	6143	37630
ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	2852	536	0	0	0	0	0	0	0	0	0	0	3388
DIVERTED BY OTHERS	1918	1553	204	103	117	246	109	56	103	242	452	549	5652
DELIVERED TO STORAGE 1/ DELIVERED TO MEXICO IN EXCESS OF TREATY	198	442	119	103	50	232	28	18	77	194	129	298	1888
CALIFORNIA TOTALS	1335	1010	85	0	67	14	81	38	26	48	323	251	3278
ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	385	101	0	0	0	0	0	0	0	0	0	0	486
DIVERTED BY OTHERS	27610	22695	15301	6961	6860	6026	6280	8081	4632	3219	15165	12809	135639
DELIVERED TO STORAGE 1/ DELIVERED TO MEXICO IN EXCESS OF TREATY	3062	1737	3702	2911	3798	3631	2719	2769	1818	785	2759	2264	31955
DELIVERED TO STORAGE 1/ DELIVERED TO MEXICO IN EXCESS OF TREATY	20085	20222	11599	4050	3062	2395	3561	5312	2814	2434	12406	10545	98485
DELIVERED TO STORAGE 1/ DELIVERED TO MEXICO IN EXCESS OF TREATY	4463	736	0	0	0	0	0	0	0	0	0	0	5199

1/ 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 DATED MARCH 9, 1964

CALENDAR YEAR 1993

DELIVERIES TO MEXICO IN SATISFACTION OF PART III OF 1944 TREATY  
 AND  
 WATER PASSING TO MEXICO IN EXCESS OF TREATY REQUIREMENTS  
 CALENDAR YEAR 1993

FINAL RECORDS (ACRE- FEET)

WATER USER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ACTUAL DELIVERY IN SATISFACTION OF TREATY TO MEXICO AS SCHEDULED	265563	595099	1339906	937821	563720	317014	216066	176908	179522	212967	224653	163533	5192772
TO MEXICO IN EXCESS OF SCHEDULE 1/ BYPASS PURSUANT TO MINUTE 242	136548	143430	159095	142699	110782	117136	151813	124245	111858	69721	98906	133767	1500000
	129015	451669	1180811	795122	452938	199878	64253	52663	67664	143246	125747	29766	3692772
	7090	9933	14202	10839	8747	1805	3014	2964	1238	1294	180	112	61438

1/ Water that is lost to the United States through releases into the Colorado River at 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 DATED MARCH 9, 1964

CALENDAR YEAR 1993

DIVERIONS FROM MAINSTREAM OF GILA AND SAN FRANCISCO RIVERS  
AND  
CONSUMPTIVE USE OF SUCH WATER FOR BENEFIT OF THE GILA NATIONAL FOREST  
CALENDAR YEAR 1993

WATER USER	FINAL RECORDS												DEC TOTAL 1/			
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC				
GILA RIVER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	(ACRE- FEET)															
	DIVERSION	0	0	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	0	0
SAN FRANCISCO RIVER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	DIVERSION	0	0	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	0	0

1/ Zero diversions reported for 1993.

R E V I S I O N S

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

DATED MARCH 9, 1964

REVISIONS FOR CALENDAR YEARS 1990, 1991, AND 1992



REVISION 1990

DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1990  
STATE OF CALIFORNIA

WATER USER	(ACRE-FEET)											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC TOTAL 1/
CITY OF NEEDLES												
4 WELLS NW SW SEC 29 T9N R23E SBM	174	140	238	257	314	381	416	400	314	263	187	184
DIVERSION RETURNS 10/	104	85	125	137	168	201	223	219	167	153	130	123
CONSUMPTIVE USE	71	55	113	120	146	179	192	181	147	110	57	61
CALIFORNIA TOTALS	304797	361092	497763	564799	618750	577180	629775	568094	486523	455000	380995	361764
DIVERSION RETURNS	38403	36433	44254	48327	52898	47552	58590	54876	55035	55155	48528	48859
CONSUMPTIVE USE	266394	324659	453509	516473	565852	529628	571185	513219	431489	399845	332468	312905
												5806532
												588909
												5217623

10/ Needles total return estimated as 40% of diversion plus measured returns (unpublished report, Colorado River Board of California).

REVISION 1991

DIVERSTIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1991  
STATE OF CALIFORNIA

WATER USER	(ACRE- FEET)											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC TOTAL 1/
CITY OF NEEDLES												
4 WELLS NW SW SEC 29 T9N R23E S8M	162	165	180	288	385	422	428	373	276	268	182	137
RETURNS 10/	98	94	105	140	194	216	227	207	162	152	116	99
CONSUMPTIVE USE	64	71	75	148	191	206	201	166	114	116	66	38
CALIFORNIA TOTALS	281911	363742	378842	569359	616122	582813	623139	569084	477711	490122	376181	257223
DIVERSION	40968	39217	43323	44080	50264	47862	53902	53783	54723	57748	51997	44597
RETURNS	240943	324525	335519	525279	565858	534951	569237	515301	422987	432374	324184	212626
CONSUMPTIVE USE												
												582464
												5003784

10/ Needles total return estimated as 40% of diversion plus measured returns (unpublished report, Colorado River Board of California).

REVISION 1992

DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1992  
STATE OF CALIFORNIA

WATER USER	REVISED RECORDS												DEC TOTAL 1/				
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	(ACRE- FEET)					
CITY OF NEEDLES																	
4 WELLS NW SW SEC 29 T9N R23E S8M	166	131	154	265	370	437	437	434	372	268	209	209	372	268	209	129	3372
DIVERSION RETURNS 10/	112	91	107	156	210	237	245	247	214	163	130	130	163	163	130	96	2007
CONSUMPTIVE USE	54	40	47	109	160	200	192	187	158	105	79	79	158	105	79	33	1365
CALIFORNIA TOTALS																	
DIVERSION	278646	277247	366394	520931	567881	559850	580615	455651	423273	437161	364472	364472	263241	263241	364472	263241	5115362
RETURNS	36970	40704	46423	51426	62752	56142	54182	55243	51601	51559	45632	45632	46962	46962	45632	46962	599595
CONSUMPTIVE USE	241676	236542	319971	469505	525129	503708	526433	400408	371672	385602	318841	318841	216280	216280	318841	216280	4515768
WATER MANAGEMENT																	
ACCT. CREDITS 8/	0	0	0	0	0	0	0	11992	7179	3258	2220	2220	3652	3652	2220	3652	28301
TOTAL USE	241676	236542	319971	469505	525129	503708	526433	412400	378851	388860	321061	321061	219932	219932	321061	219932	4544069

8/ PVID/MWD land fallow test program of 20,215 acres with 1.4 acft/ac of use in 1992. Water is accounted as used in the year saved and stored for the exclusive future use of MWD and not to be additive to current year MWD diversions.

10/ Needles total return estimated as 40% of diversion plus measured returns (unpublished report, Colorado River Board of California).