

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

C A L E N D A R   Y E A R   1 9 8 7

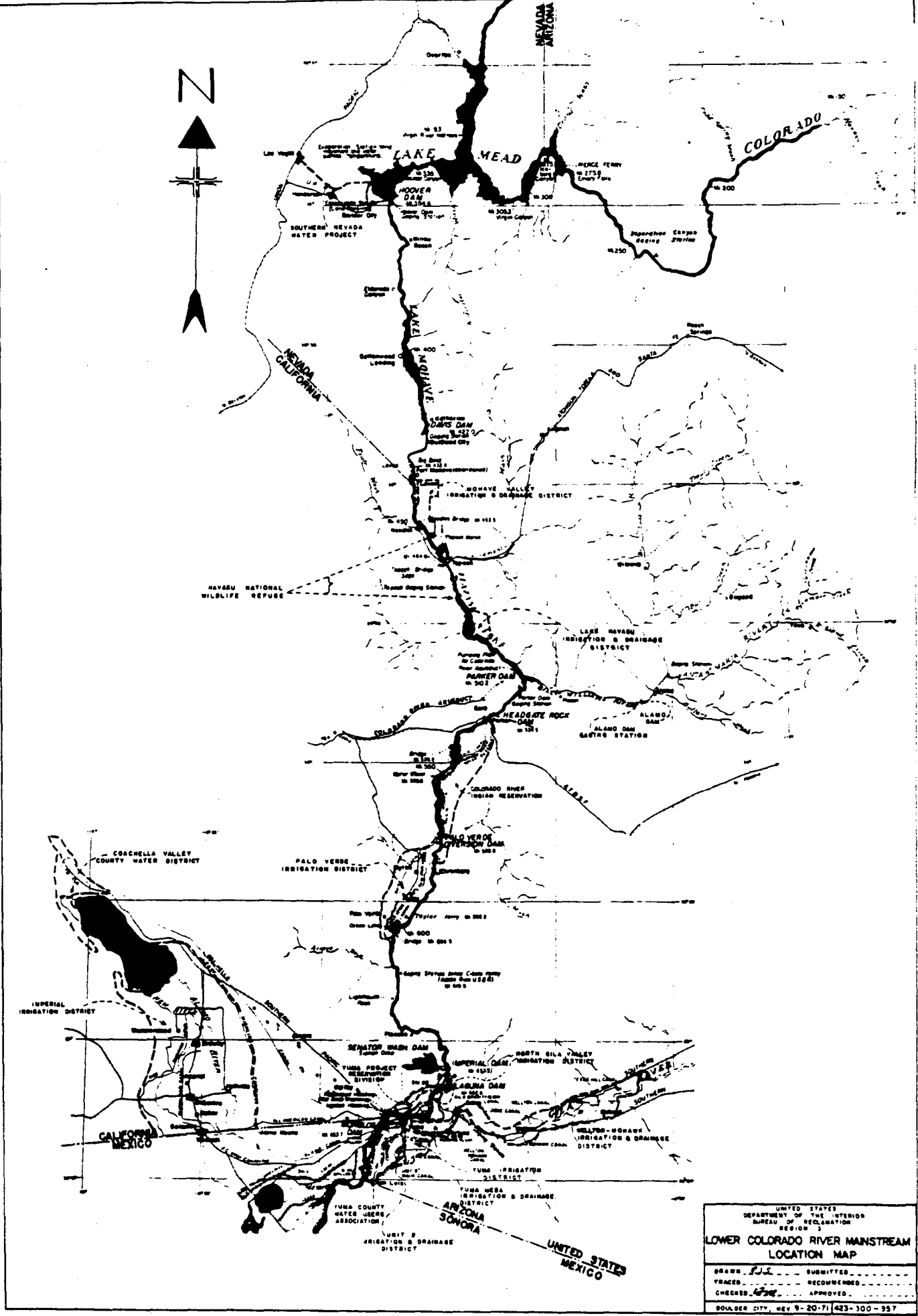
Bureau of Reclamation

Lower Colorado Region

Boulder City, Nevada

CONTENTS

	<u>Page</u>
Location Map (Drawing No. 423-300-957) .....	Frontispiece
V(A) Releases of Water Through Regulatory Structures Controlled by the .... United States .....	2
V(B) Mainstream Diversions, Return Flows, and Consumptive Use .....	5
Arizona .....	7
Other Arizona Users .....	13
California .....	15
Other California Users .....	18
Nevada .....	19
Other Nevada Users .....	21
V(C) Water Ordered but not Diverted .....	22
Arizona .....	24
California .....	27
V(D) Deliveries of Water to Mexico .....	29
V(E) Diversions and Use for Gila National Forest .....	31
Revisions to Calendar Year 1986 .....	33



UNITED STATES  
 DEPARTMENT OF THE INTERIOR  
 BUREAU OF RECLAMATION  
 REGION 3  
**LOWER COLORADO RIVER MAINSTREAM  
 LOCATION MAP**  
 DRAWN *[Signature]* SUBMITTED \_\_\_\_\_  
 TRACED \_\_\_\_\_ RECOMMENDED \_\_\_\_\_  
 CHECKED *[Signature]* APPROVED \_\_\_\_\_  
 BOULDER CITY, NEV. 9-20-71 423-300-357

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 1987

The following tabulations for calendar year 1987 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 THRU REGULATORY STRUCTURES  
 CONTROLLED BY THE UNITED STATES  
 CALENDAR YEAR 1987

(ACRE-FEET)

STRUCTURE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL 1/
HOOVER DAM	1622000	1139000	1137000	968100	989800	853500	845200	1022000	884000	685900	548200	639000	11334000
DAVIS DAM	1411000	1166000	1092000	1006000	927100	966000	1036000	1044000	840400	700500	423500	706800	11319000
PARKER DAM	1339000	1057000	937200	806400	737900	792400	857700	861200	702400	562600	348200	558500	9561000
HEADGATE ROCK DAM 2/	1319000	1013000	883000	744300	666200	710200	768600	781600	651700	530000	330800	536400	8935000
PALO VERDE DAM 3/	1219000	913400	808300	644200	618600	633000	653400	677800	600300	484200	262500	377100	7892000
IMPERIAL DAM 4/	696700	263000	128900	85270	65580	53330	62100	77660	91770	53970	34200	31190	1644000
LAGUNA DAM	695900	263900	135600	87100	68600	59210	65830	84950	94340	57000	35430	32990	1681000

1/ TOTALS ARE ROUNDED.

2/ COLORADO RIVER BELOW PARKER DAM LESS DIVERSION AT HEADGATE ROCK DAM.

3/ MEASURED THROUGH THE GATES OF PALO VERDE DAM.

4/ INCLUDES DIVERSION TO MITTRY LAKE.

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 1987

The following tabulations for calendar year 1987 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 1987 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.



DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1987  
STATE OF ARIZONA

FINAL RECORDS		(ACRE-FEET)												
WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS 1/
LAKE MEAD NAT'L RECREATION, AZ. DIVERSION FROM LAKE MOHAVE	DIVERSION RETURNS	16	16	19	31	41	48	47	50	42	33	15	11	369
	CONSUMPTIVE USE	16	16	19	31	41	48	47	50	42	33	15	11	369
L.C.R.D. PROJECT (DAVIS DAM) DIVERSION AT DAVIS DAM	DIVERSION RETURNS	1	1	3	2	3	2	2	4	2	4	2	0	26
	CONSUMPTIVE USE	1	1	3	2	3	2	2	4	2	4	2	0	26
MOHAVE COUNTY PARKS DIVERSION AT DAVIS DAM	DIVERSION RETURNS	5	5	7	12	14	15	10	13	8	9	10	4	112
	CONSUMPTIVE USE	5	5	7	12	14	15	10	13	8	9	10	4	112
BULLHEAD CITY PUMPED FROM WELLS	DIVERSION RETURNS	383	383	383	383	383	383	383	383	383	383	383	383	4596
	CONSUMPTIVE USE	383	383	383	383	383	383	383	383	383	383	383	383	4596
MOHAVE WATER CONSERVATION PUMPED FROM WELLS	DIVERSION RETURNS	16	14	16	23	31	36	36	32	30	29	24	22	309
	CONSUMPTIVE USE	16	14	16	23	31	36	36	32	30	29	24	22	309
CONSOLIDATED WATER UTILITIES PUMPED FROM RIVER	DIVERSION RETURNS	18	21	26	26	32	35	39	36	32	27	25	19	336
	CONSUMPTIVE USE	18	21	26	26	32	35	39	36	32	27	25	19	336
MOHAVE VALLEY I. & D. DISTRICT PUMPED FROM WELLS	DIVERSION RETURNS	776	788	1742	1797	2274	2956	3452	3559	2466	1343	762	601	22516
	CONSUMPTIVE USE	776	788	1742	1797	2274	2956	3452	3559	2466	1343	762	601	22516

DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1987  
STATE OF ARIZONA

FINAL RECORDS

(ACRE-FEET)

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS 1/
FORT MOHAVE INDIAN RESERVATION 10 PUMPS AND WELLS IN FLOOD PLAIN	DIVERSION 3/ RETURNS CONSUMPTIVE USE													51916 51916
HAVASU NATIONAL WILDLIFE REFUGE INLET-NW NE NW SEC 33 T9N R5SW G&SRM 1 WELL SEC15 T08N R23E AAA	DIVERSION DIVERSION RETURNS CONSUMPTIVE USE	169 2	496 4	2896 5	3610 9	3642 8	5816 8	6730 11	6663 10	2340 7	1197 6	914 3	3683 2	38156 75 38231
LAKE HAVASU IRRIGATION AND DRAINAGE DISTRICT PUMPED FROM WELLS	DIVERSION RETURNS CONSUMPTIVE USE	548	561	697	843	967	1101	1374	1245	1076	978	622	624	10636 10636
CENTRAL ARIZONA PROJECT PUMPED FROM LAKE HAVASU	DIVERSION RETURNS CONSUMPTIVE USE	4914	10149	19595	31917	33377	47197	70764	67084	36344	13794	6141	13289	354565 354565
TOWN OF PARKER 1 WELL-NW NW NW SEC 7 T9N R19W G&SRM	DIVERSION RETURNS CONSUMPTIVE USE	50	52	65	61	112	137	144	139	122	106	72	60	1120 1120
COLORADO RIVER INDIAN RESERVATION DIVERSION AT HEADGATE ROCK DAM PUMPED FROM 2 WELLS IN PARKER 6 PUMPS	DIVERSION DIVERSION DIVERSION 4/ RETURNS CONSUMPTIVE USE	20035 1 47 16298 3785	44418 0 46 17572 26892	54167 1 55 22775 31448	62074 1 93 22491 39677	71676 1 116 25933 45860	82196 1 132 25128 57201	89059 1 135 25602 63593	79578 1 134 28714 50999	50659 1 82 26530 24212	32640 1 71 21930 10782	17450 1 43 18268 -774	22070 1 50 17196 4925	626022 11 1004 268437 358600
EHRENBERG IMPROVEMENT ASSN. 1 PUMP SW SEC 3 T3N R22W G&SRM	DIVERSION RETURNS CONSUMPTIVE USE	12	12	17	19	21	26	22	24	21	15	12	11	212 212

DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1987  
STATE OF ARIZONA

FINAL RECORDS		(ACRE-FEET)												
WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS 1/
CIBOLA VALLEY IRRIGATION DISTRICT														
5 PUMPS SEC'S 20 & 21 T1N R23W G&SRM	DIVERSION	827	1647	2617	2640	3512	4355	3973	4061	3023	1151	53	363	28222
	RETURNS													
	CONSUMPTIVE USE	827	1647	2617	2640	3512	4355	3973	4061	3023	1151	53	363	28222
CIBOLA NATIONAL WILDLIFE REFUGE														
3 PUMPS	DIVERSION	208	120	116	473	387	394	297	142	446	1460	1349	905	6297
	RETURNS													
	CONSUMPTIVE USE	208	120	116	473	387	394	297	142	446	1460	1349	905	6297
YUMA PROVING GROUND														
DIVERSION AT IMPERIAL DAM	DIVERSION	1	0	0	2	3	1	1	2	2	1	0	0	13
	RETURNS													
	CONSUMPTIVE USE	1	0	0	2	3	1	1	2	2	1	0	0	13
WARREN ACT CONTRACTORS														
DIVERSION AT IMPERIAL DAM	DIVERSION	161	465	451	535	539	301	490	617	491	619	171	203	5043
	RETURNS													
	CONSUMPTIVE USE	161	465	451	535	539	301	490	617	491	619	171	203	5043
WELLTON MOHAWK I. & D. DISTRICT														
DIVERSION AT IMPERIAL DAM	DIVERSION	18629	29563	36643	41971	45494	50352	55060	51077	46898	29304	24104	14609	443704
	RETURNS	12095	10653	12139	11617	10411	11679	13787	12462	8065	8005	6811	5988	123712
	CONSUMPTIVE USE	6534	18910	24504	30354	35083	38673	41273	38615	38833	21299	17293	8621	319992
CITY OF YUMA														
DIVERSION AT IMPERIAL DAM	DIVERSION	1172	1124	1340	1616	1837	2007	2061	2028	1799	1472	1217	1145	18818
	RETURNS	702	704	73	711	716	653	717	717	763	733	741	754	7984
	CONSUMPTIVE USE	470	420	1267	905	1121	1354	1344	1311	1036	739	476	391	10834
MARINE CORPS AIR STATION (YUMA)														
DIVERSION AT IMPERIAL DAM	DIVERSION	66	121	165	217	266	309	374	333	298	226	36	48	2459
	RETURNS													
	CONSUMPTIVE USE	66	121	165	217	266	309	374	333	298	226	36	48	2459

DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1987  
STATE OF ARIZONA

FINAL RECORDS

(ACRE-FEET)

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS 1/
SOUTHERN PACIFIC COMPANY														
DIVERSION AT IMPERIAL DAM	DIVERSION	4	4	4	4	4	4	4	4	4	4	4	4	48
	RETURNS													
	CONSUMPTIVE USE	4	4	4	4	4	4	4	4	4	4	4	4	48
COUNTY OF YUMA														
DIVERSION AT IMPERIAL DAM	DIVERSION	1	1	1	1	1	1	1	1	1	1	1	1	12
	RETURNS													
	CONSUMPTIVE USE	1	1	1	1	1	1	1	1	1	1	1	1	12
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	1	1	1	1	1	1	1	1	1	1	1	1	12
UNIVERSITY OF ARIZONA														
DIVERSION AT IMPERIAL DAM	DIVERSION	36	68	40	56	52	128	135	111	110	64	43	52	895
	RETURNS													
	CONSUMPTIVE USE	36	68	40	56	52	128	135	111	110	64	43	52	895
YUMA UNION HIGH SCHOOL														
DIVERSION AT IMPERIAL DAM	DIVERSION	5	4	10	20	31	27	38	27	27	17	6	5	217
	RETURNS													
	CONSUMPTIVE USE	5	4	10	20	31	27	38	27	27	17	6	5	217
CAMILLE, ALEC. JR.														
DIVERSION AT IMPERIAL DAM	DIVERSION	1	1	1	1	4	5	2	2	2	1	0	1	21
	RETURNS													
	CONSUMPTIVE USE	1	1	1	1	4	5	2	2	2	1	0	1	21
DESERT LAWN MEMORIAL														
DIVERSION AT IMPERIAL DAM	DIVERSION	4	7	1	0	6	13	13	15	14	0	0	4	77
	RETURNS													
	CONSUMPTIVE USE	4	7	1	0	6	13	13	15	14	0	0	4	77

DIVERSIONS FROM MAINST. AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1987  
STATE OF ARIZONA

FINAL RECORDS		(ACRE-FEET)												
WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS 1/
<b>NORTH GILA VALLEY IRRIGATION DISTRICT</b>														
DIVERSION AT IMPERIAL DAM	DIVERSION	3383	3446	4094	4212	5752	5708	4527	2794	4437	4832	2552	2868	48605
	RETURNS	2825	2729	2557	2317	2839	2954	2616	1642	2781	3394	2191	2208	31053
	CONSUMPTIVE USE	558	717	1537	1895	2913	2754	1911	1152	1656	1438	361	660	17552
<b>YUMA IRRIGATION DISTRICT</b>														
DIVERSION AT IMPERIAL DAM	DIVERSION	3322	4360	4512	6016	5686	5252	4595	5412	6746	5874	4370	3244	59389
PUMPED FROM PRIVATE WELLS	DIVERSION	577	604	637	865	1073	1052	1067	930	838	677	381	714	9415
	RETURNS	502	633	657	872	885	794	692	833	1068	955	692	528	9111
	CONSUMPTIVE USE	3397	4331	4492	6009	5874	5510	4970	5509	6516	5596	4059	3430	59693
<b>YUMA MESA I. &amp; D. DISTRICT</b>														
DIVERSION AT IMPERIAL DAM	DIVERSION	13604	12667	14585	23010	26617	28748	32368	28135	23450	16485	8400	14911	242980
	RETURNS	1017	961	328	1012	1953	1939	2006	2345	1429	2007	1575	1824	18396
	CONSUMPTIVE USE	12587	11706	14257	21998	24664	26809	30362	25790	22021	14478	6825	13087	224584
<b>UNIT "B" I. &amp; D. DISTRICT</b>														
DIVERSION AT IMPERIAL DAM	DIVERSION	1606	1842	2446	3095	3116	3797	4427	3461	3317	2589	1434	2031	33161
	RETURNS	180	170	58	179	345	342	354	414	252	354	278	322	3248
	CONSUMPTIVE USE	1426	1672	2388	2916	2771	3455	4073	3047	3065	2235	1156	1709	29913
<b>YUMA COUNTY WATER USERS ASSOCIATION</b>														
DIVERSION AT IMPERIAL DAM	DIVERSION	15163	15634	21352	30083	25549	26773	29727	31473	30250	37045	20802	14534	298385
PUMPED FROM WELLS	DIVERSION	462	349	349	393	351	430	411	333	331	428	424	533	4794
	RETURNS	9944	9295	9447	9649	9430	9391	9028	9232	9769	12315	11550	10349	119399
	CONSUMPTIVE USE	5681	6688	12254	20827	16470	17812	21110	22574	20812	25158	9676	4718	183780
<b>COCOPA INDIAN RESERVATION</b>														
DIVERSION AT IMPERIAL DAM	DIVERSION	59	26	53	138	251	157	218	42	107	437	35	69	1592
PUMPED FROM WELLS	DIVERSION	2	1	1	2	3	3	3	0	1	5	1	2	24
	RETURNS	0	0	1	2	3	2	3	0	2	6	1	1	21
	CONSUMPTIVE USE	61	27	53	138	251	158	218	42	106	436	35	70	1595
<b>PUMPED FROM SOUTH GILA WELLS</b>														
	RETURNS 5/	4596	5114	5916	5286	5322	5276	5962	4714	2490	2760	2322	3404	53162
<b>OTHER USERS PUMPING FROM COLORADO RIVER AND WELLS IN FLOOD PLAIN DAVIS DAM TO INTERNATIONAL BOUNDARY</b>														
	DIVERSION 6/	1376	2763	3267	6437	5602	5925	7509	6835	5079	3877	2164	1697	52531

DIVERSIONS FROM MAINST. ←-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1987  
STATE OF ARIZONA

FINAL RECORDS	(ACRE-FEET)												
WATER USER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS 1/
ARIZONA TOTALS													
DIVERSION 7/	89023	134515	175608	229051	244371	281688	326932	303546	226307	161036	96166	100452	2368695
RETURNS	48159	47831	53951	54136	57837	58158	60767	61073	53149	52459	44429	42574	634523
CONSUMPTIVE USE	40864	86684	121657	174915	186534	223530	266165	242473	173158	108577	51737	57878	1734172

NOTE: THE TERM 'CONSUMPTIVE USE' IN THIS TABULATION MEANS MEASURED DIVERSIONS INCLUDING UNDERGROUND PUMPING, LESS MEASURED RETURN FLOW AND LESS CURRENT ESTIMATED UNMEASURED RETURN FLOW TO THE RIVER.

1/ NO SURFACE RETURNS UNLESS SHOWN ON REPORT.

2/ REPORTED ANNUAL TOTAL.

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 UNASSIGNED TO DISTRICT 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/ MONTHLY FIGURES INCLUDE TOTAL OF ITEMS FOR USERS FOR WHICH MONTHLY DISTRIBUTION IS NOT SHOWN. DISTRIBUTED ACCORDING TO MONTHLY DISTRIBUTION OF OTHER USERS IN THE IMMEDIATE AREA.

PUMPAGE FROM JRADO RIVER  
AND WELLS IN FLOOD PLAIN  
DAVIS DAM TO INTERNATIONAL BOUNDARY  
CALENDAR YEAR 1987  
STATE OF ARIZONA

SUPPLEMENTAL SHEETS

(ACRE-FEET)

NAME OF PUMPER	LOCATION OF WELL/PUMP	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL 1/
Jack Siler	(B-04-22)14 BCB	277	604	523	756	821	826	836	846	601	487	358	145	7080
Jack Rayner Jr.	(B-04-22)34 DCC	0	63	284	902	150	106	1040	644	690	110	129	0	4118
Jack Rayner Jr.	(B-04-22)34 DCC	0	0	0	184	16	0	316	168	201	45	16	0	946
Geo Arakelian	(B-03-22)16 DBD	140	151	43	222	554	385	121	377	465	299	41	143	2940
Adrin Towery	(B-01022)21 BCD 2/													3600
L Pratt	Sec14 T7S R22W ABC 2/													210
L Pratt	SEC14 T7S R22W BCD 2/													210
A Dulin	SEC08 T08S R22E DAC	4	57	45	105	121	137	166	162	145	82	64	0	1088
A Dulin	SEC07 T08S R22W CCD	35	73	72	281	252	260	288	487	0	71	135	23	1977
Pete Auza	SEC18 T08S R22W CBD	29	66	52	158	200	215	247	215	207	196	104	100	1789
Pete Auza	SEC24 T08S R22W BDD	0	7	242	404	466	450	501	497	510	531	275	220	4103
Pete Auza	SEC18 T08S R22W DDD 2/													1590
R. Yowelman	SEC17 T08S R22W CCB 2/													720
Cameron Bros.	SEC24 T08S R22W CCB	8	32	47	66	71	61	73	21	0	20	0	7	406
Judd T. Ott	SEC30 T08S R22W BAB	6	6	7	12	20	38	31	42	0	9	10	12	193
Judd T. Ott	SEC19 T08S R22W CCD	100	62	53	49	76	86	96	110	83	66	54	124	959
Cameron Bros	SEC24 T08S R22W CAD	32	22	39	61	56	35	15	3	0	27	10	5	305
Harp (R. Harp)	SEC13 T08S R23W AAD 2/													1458
Ott	SEC24 T08S R23W DCC	28	28	30	65	62	38	0	0	0	0	55	45	351
Peach	SEC22 T08S R23W DDC	0	0	0	50	11	89	73	47	14	79	3	0	366
AZ Prod	SEC23 T08S R23W CDA	27	47	30	47	68	65	76	48	49	10	26	67	560
Yucca Pwr Plant	SEC36 T16S R12E CBA 4/													372
Dwane Slade	SEC28 T16S R22E CDA	1	9	4	27	19	9	12	20	16	0	19	19	155
Curtis Jennings	SEC29 T16S R22E DAC	0	0	0	0	0	0	0	27	0	42	1	14	84
R.E. Power P. Power	SEC30 T16S R22E ACC 2/													3900
Ansil Hall	SEC36 T16S R21E BCB 2/													480
Sturges	C-08-22 14CDD	127	262	337	445	336	523	619	508	218	375	50	159	3959
Sturges	C-08-22 18ADD	33	93	110	167	134	104	117	99	76	27	50	13	1023
Sturges	C-08-22 13BBB	1	52	5	28	61	96	117	97	60	4	1	11	533
Sturges	C-08-22 13DAD	24	40	81	93	60	93	123	65	61	32	18	2	692
Sturges	C-08-22 04DAA	0	95	92	187	200	169	167	157	79	108	68	43	1365
Sturges	C-08-21 18CDB	22	41	74	114	86	142	126	113	106	65	22	21	932
Sturges	C-08-21 18BAC	91	176	164	250	249	314	249	193	198	101	82	44	2111
Sturges	C-08-22 14CAA	48	96	127	170	128	197	235	184	41	133	38	58	1455
Sturges	C-08-21 18BCD	4	0	1	8	5	27	15	21	8	3	2	4	98
Ft. Mohave Farm	(B-17-22)27 CCD 2/													300
BLM PERMITTEES														102
MONTHLY DISTRIBUTION FOR THOSE NOT SHOWN 3/		339	681	805	1586	1380	1460	1850	1684	1251	955	533	418	

\*\*\* Total Arizona Supplemental \*\*\*

1376 2763 3267 6437 5602 5925 7509 6835 5079 3877 3877 1697 52531

*Jump* 755 1783 2140 2074 3695 4165 4712 4335 2756 2020 315 1195

- 1/ CALCULATED FROM MONTHLY POWER RECORDS AND POWER-DISCHARGE MEASUREMENTS WHERE AVAILABLE, AND WHERE POWER-DISCHARGE MEASUREMENTS WERE NOT AVAILABLE CALCULATED FROM POWER-DISCHARGE RATE.
- 2/ CALCULATED BY ASSUMING AN ANNUAL DIVERSION RATE OF 6 AC-FT PER ACRE UNLESS OTHERWISE NOTED.
- 3/ TOTAL OF ITEMS FOR USERS FOR WHICH MONTHLY DISTRIBUTION IS NOT SHOWN. DISTRIBUTED ACCORDING TO MONTHLY DISTRIBUTION OF OTHER USERS IN IMMEDIATE AREA.
- 4/ REPORTED ANNUAL TOTAL.



DIVERSIONS FROM MAINSTR AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1987  
STATE OF CALIFORNIA

FINAL RECORDS		(ACRE-FEET)												
WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS 1/
FORT MOHAVE INDIAN RESERVATION PUMPED FROM RIVER AND WELLS														19578
	DIVERSION 7/ RETURNS													19578
	CONSUMPTIVE USE													
CITY OF NEEDLES 4 WELLS NW SW SEC 29 T9N R23E SBM														2981
	DIVERSION	101	112	150	242	309	388	416	407	356	252	136	112	2981
	RETURNS	36	41	46	49	52	61	61	66	58	48	31	29	578
	CONSUMPTIVE USE	65	71	104	193	257	327	355	341	298	204	105	83	2403
METROPOLITAN WATER DISTRICT DIVERSION FROM LAKE HAVASU														1282277
	DIVERSION	110272	102234	106256	110555	106460	111654	108318	109573	109706	103546	99899	103804	1282277
	RETURNS 2/	329	288	321	288	290	252	255	253	242	295	300	328	3441
	CONSUMPTIVE USE	109943	101946	105935	110267	106170	111402	108063	109320	109464	103251	99599	103476	1278836
PARKER DAM AND GOVERNMENT CAMP DIVERSION AT PARKER DAM														255
	DIVERSION	7	7	10	17	28	34	36	39	32	25	12	8	255
	RETURNS													
	CONSUMPTIVE USE	7	7	10	17	28	34	36	39	32	25	12	8	255
COLORADO RIVER INDIAN RESERVATION PUMPED FROM 11 PUMPS AND WELLS 2 PUMPS BIG RIVER														4898
	DIVERSION 4/	440	66	395	160	390	955	634	1381	347	41	27	62	4898
	DIVERSION	35	35	41	84	79	118	138	62	74	81	45	42	834
	RETURNS													
	CONSUMPTIVE USE	475	101	436	244	469	1073	772	1443	421	122	72	104	5732
CITY OF WINTERHAVEN 1 WELL SE SE NE SEC 27 T16S R22E SBM														122
	DIVERSION	7	6	7	11	12	16	15	15	11	10	7	5	122
	RETURNS													
	CONSUMPTIVE USE	7	6	7	11	12	16	15	15	11	10	7	5	122
PALO VERDE IRRIGATION DISTRICT DIVERSION FROM PALO VERDE DAM														864570
	DIVERSION	33795	60098	72312	89723	90824	102269	107168	104550	76513	53701	35576	38041	864570
	RETURNS	31033	29170	38304	36801	39023	39919	41690	42329	39495	38774	34677	33219	444434
	CONSUMPTIVE USE	2762	30928	34008	52922	51801	62350	65478	62221	37018	14927	899	4822	420136

DIVERSIONS FROM MAINSTR. AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1987  
STATE OF CALIFORNIA

FINAL RECORDS		(ACRE-FEET)												
WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS 1/
YUMA PROJECTS, RES. DIV. INDIAN UNIT														
DIVERSION AT IMPERIAL DAM	DIVERSION	1382	2404	2087	3402	2220	3004	3971	2682	3664	3245	2447	1873	32381
	RETURNS	12	14	13	26	19	26	36	24	43	38	39	14	304
	CONSUMPTIVE USE	1370	2390	2074	3376	2201	2978	3935	2658	3621	3207	2408	1859	32077
YUMA PROJECTS, RES. DIV. BARD UNIT														
DIVERSION AT IMPERIAL DAM	DIVERSION	2930	3542	4545	5789	4782	5116	5263	3593	3126	5343	2614	2405	49048
	RETURNS	14	13	18	28	25	27	30	22	23	37	23	11	271
	CONSUMPTIVE USE	2916	3529	4527	5761	4757	5089	5233	3571	3103	5306	2591	2394	48777
RETURNS FROM YUMA PROJECT RESERVATION DIVISION RETURNS														
	RETURNS 3/	3028	2985	3179	3115	2867	2649	2722	2641	1847	1731	2865	2760	32389
IMPERIAL IRRIGATION DISTRICT														
DIVERSION AT IMPERIAL DAM	DIVERSION	146374	164480	248575	317808	304973	283644	314450	308481	259667	209218	127701	130615	2815986
	RETURNS	2204	1871	3051	4814	5166	4836	5781	5741	5951	5507	4190	2009	51121
	CONSUMPTIVE USE	144170	162609	245524	312994	299807	278808	308669	302740	253716	203711	123511	128606	2764865
COACHELLA VALLEY WATER DISTRICT														
DIVERSION AT IMPERIAL DAM	DIVERSION	18018	21376	24301	33489	35638	36153	39159	43545	33320	23475	11621	18659	338754
	RETURNS	271	243	298	507	604	616	720	810	764	618	381	287	6119
	CONSUMPTIVE USE	17747	21133	24003	32982	35034	35537	38439	42735	32556	22857	11240	18372	332635
OTHER USER PUMPING FROM COLORADO RIVER AND WELLS IN FLOOD PLAIN DAVIS DAM TO INTERNATIONAL BOUNDARY														
	DIVERSION 5/	740	572	1505	1352	1993	2343	1957	2517	2607	1630	1106	611	18933
CALIFORNIA TOTALS														
	DIVERSION 6/	314866	355523	461740	564030	549769	548117	583549	579448	492119	402253	282335	296869	5430618
	RETURNS	36927	34625	45230	45628	48046	48386	51295	51886	48423	47048	42506	38657	538657
	CONSUMPTIVE USE	277939	320898	416510	518402	501723	499731	532254	527562	443696	355205	239829	258212	4891961

NOTE: THE TERM CONSUMPTIVE USE IN THIS TABULATION MEANS MEASURED DIVERSIONS INCLUDING UNDERGROUND PUMPING, LESS MEASURED RETURN FLOW AND LESS CURRENT ESTIMATED UNMEASURED RETURN FLOW TO THE RIVER.

- 1/ NO SURFACE RETURNS UNLESS SHOWN ON REPORT.
- 2/ ESTIMATE BASED ON MEASURED REGULATORY RESERVOIRS SEEPAGE RETURNS LESS AN ESTIMATED AMOUNT OF PHREATOPHYTE USE.
- 3/ RETURNS UNASSIGNED INCLUDE UNKNOWN QUANTITIES OF 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/ MONTHLY FIGURES INCLUDE TOTAL OF ITEMS FOR USERS FOR WHICH MONTHLY DISTRIBUTION IS NOT SHOWN. DISTRIBUTED ACCORDING TO MONTHLY DISTRIBUTION OF OTHER USERS IN IMMEDIATE AREA.
- 7/ CALCULATED BY ASSUMING AN ANNUAL DIVERSION OF 6 AC-FT PER IRRIGATED ACRE.

PUMPAGE FROM RADO RIVER  
AND WELLS IN FLOOD PLAIN  
DAVIS DAM TO INTERNATIONAL BOUNDARY  
CALENDAR YEAR 1987  
STATE OF CALIFORNIA

SUPPLEMENTAL SHEETS

(ACRE-FEET)

NAME OF PUMPER	LOCATION OF WELL/PUMP	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL 1/
C. L. Lye	T15N R24E SEC16 BAD 2/													30
Barrett (R. Harp)	SEC06 T08S R22W BCD 2/													900
Ralph Land	SEC35 T15S R23E DDC	2	0	0	114	22	136	145	126	156	0	0	0	700
Ralph Land	SEC22 T16S R23E BDD	8	0	35	29	39	54	68	61	107	55	54	0	510
Pete Power	SEC14 T16S R23E CCB 2/													1992
F. Perez (Slade)	SEC06 T08S R22W CDA	279	132	104	98	120	124	43	39	267	218	220	242	1886
M. Spencer	SEC09 T16S R23E CAC	42	32	51	2	81	41	8	0	231	72	101	0	661
M. Martin (A. Dees)	SEC01 T08S R23W BBA	0	0	88	41	3	24	20	17	0	0	0	0	193
M. Martin-A. Dees	SEC01 T08S R23W BAD	0	0	336	106	294	272	48	256	0	132	0	0	1444
F. Schaffer-Harp	SEC02 T08S R23W ADC 2/													330
Taylor Bros	SEC02 T08S R23W DDA	0	0	0	0	0	0	0	0	0	86	36	15	137
Wilson (R. Harp)	SEC12 T08S R23W BBA	32	35	74	82	109	85	132	130	121	50	65	38	953
Kitti Easterday	SEC01 T08S R23W DCC	46	0	94	86	103	115	146	140	146	69	71	0	1015
Hutcheson, John E.	SEC 27 T16S R23E SBM 4/													1
Wetmore, Mark M.	SEC 21 T16S R22E SBM 4/													9
Sherman, Margaret T.	SEC 21 T16S R22E SBM 4/													24
Bly, James R.	SEC 21 T16S R22E SBM 4/													3
Glynn, Edward	SEC 21 T16S R22E SBM 4/													1
Larry Kennedy	T11N R22E SEC31 BAD 2/													600
Russell Bros.	T11N R22E SEC36 DAC 2/													720
Southern Cal Gas	T09E R23E SEC29 DDD 4/													70
Alex Dees	SEC01 T8S R23W	65	71	55	173	241	218	238	239	317	212	61	52	1942
E. Evans (R. Harp)	SEC12 T8S R23W	0	0	0	0	0	197	67	169	83	0	3	0	519
P. Harp (R. Harp)	SEC12 T8S R23W 2/													882
K. Easterday	SEC1 T8S R23W	25	108	152	158	264	223	312	373	239	173	117	37	2181
F. Smith (P. Power)	SEC11 T8S R23W	14	18	54	48	105	134	129	194	140	62	39	39	976
BLM PERMITTEES		14		12	21	24	20	32	31	24	20	15	11	254
MONTHLY DISTRIBUTION FOR THOSE NOT SHOWN	3/	227	176	462	415	612	720	601	773	801	501	340	188	
*** Total California Supplemental***		740	572	1505	1352	1993	2343	1957	2517	2607	1630	1106	611	18933
		76	62	103	112	136	165	180	174	136	114	82	80	

1/ CALCULATED FROM POWER RECORDS AND POWER-DISCHARGE MEASUREMENTS WHERE AVAILABLE, AND WHERE POWER-DISCHARGE MEASUREMENTS WERE NOT AVAILABLE CALCULATED FROM POWER-DISCHARGE RATE.

2/ CALCULATED BY ASSUMING AN ANNUAL DIVERSION OF 6 AC-FT PER IRRIGATED ACRE UNLESS OTHERWISE NOTED.

3/ TOTAL OF ITEMS FOR USERS FOR WHICH MONTHLY DISTRIBUTION IS NOT SHOWN. DISTRIBUTED ACCORDING TO MONTHLY DISTRIBUTION OF OTHER USERS IN IMMEDIATE AREA.

4/ REPORTS ANNUAL TOTAL.

DIVERSIONS FROM MAINSTA. AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1987  
STATE OF NEVADA

FINAL RECORDS		(ACRE-FEET)												
WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS 1/
BOULDER CANYON PROJECT														
DIVERSION AT HOOVER DAM	DIVERSION	10	9	10	11	11	12	12	7	6	9	7	8	112
	RETURNS	9	9	10	9	10	9	0	0	0	0	0	0	66
	CONSUMPTIVE USE	1	0	0	1	2	2	3	7	6	9	7	8	46
ROBERT B. GRIFFITH WATER PROJECT														
DIVERSION AT SADDLE ISLAND, LAKE MEAD	DIVERSION	9640	9885	11813	15274	16640	17133	19704	16312	19137	13811	9129	8922	167400
	RETURNS													
	CONSUMPTIVE USE	9640	9885	11813	15274	16640	17133	19704	16312	19137	13811	9129	8922	167400
LAKE MEAD NATIONAL RECREATION AREA														
DIVERSION AT LAKE MEAD	DIVERSION	55	54	43	61	82	84	102	95	91	75	50	48	840
	RETURNS													
	CONSUMPTIVE USE	55	54	43	61	82	84	102	95	91	75	50	48	840
BASIC MANAGEMENT INC.														
DIVERSION AT SADDLE ISLAND, LAKE MEAD	DIVERSION	770	691	930	893	988	1356	1338	1519	1360	1114	951	810	12720
	RETURNS													
	CONSUMPTIVE USE	770	691	930	893	988	1356	1338	1519	1360	1114	951	810	12720
NEVADA STATE DEPARTMENT OF FISH & GAME														
DIVERSION AT SADDLE ISLAND, LAKE MEAD	DIVERSION	390	352	385	341	348	350	362	364	351	381	364	376	4364
	RETURNS	389	351	385	340	348	350	361	363	350	381	364	376	4358
	CONSUMPTIVE USE	1	1	0	1	0	0	1	1	1	0	0	0	6
PACIFIC COAST BUILDING PRODUCTS INC.														
DIVERSION AT GYPSUM WASH, LAKE MEAD	DIVERSION	39	36	40	46	55	56	53	50	56	57	22	62	572
	RETURNS													
	CONSUMPTIVE USE	39	36	40	46	55	56	53	50	56	57	22	62	572
SOUTHERN CALIFORNIA EDISON														
PUMPED FROM SEC 24 T32S R66E MDB&M	DIVERSION	1021	1142	1295	943	796	1217	1664	1504	1535	722	600	1216	13655
	RETURNS													
	CONSUMPTIVE USE	1021	1142	1295	943	796	1217	1664	1504	1535	722	600	1216	13655

DIVERSIONS FROM MAINSTI AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1987  
STATE OF NEVADA

FINAL RECORDS		(ACRE-FEET)												
WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS 1/
CLARK COUNTY PARKS & RECREATION DEPT. 1 PUMP SEC 1 T32S R66E MDB&M	DIVERSION	0	0	0	1	1	1	1	1	1	0	0	0	6
	RETURNS													
	CONSUMPTIVE USE	0	0	0	1	1	1	1	1	1	0	0	0	6
BIG BEND WATER DISTRICT														
	DIVERSION	94	90	104	123	148	165	206	202	166	163	134	123	1718
	RETURNS													
	CONSUMPTIVE USE	94	90	104	123	148	165	206	202	166	163	134	123	1718
LAS VEGAS WASH RETURN FLOWS	RETURNS 2/	8310	7170	7970	7570	7510	7170	7240	7120	6990	7060	7010	7020	88140
OTHER USERS IN NEVADA PUMPING FROM COLORADO RIVER AND WELLS IN FLOOD PLAIN	DIVERSION 3/													40
NEVADA TOTALS														
	DIVERSION 4/	12022	12262	14623	17696	19073	20378	23446	20058	22706	16335	11260	11568	201427
	RETURNS	8708	7530	8365	7920	7867	7530	7610	7483	7340	7441	7374	7396	92564
	CONSUMPTIVE USE	3314	4732	6258	9776	11206	12848	15836	12575	15366	8894	3886	4172	108863

NOTE: THE TERM 'CONSUMPTIVE USE' IN THIS TABULATION MEANS MEASURED DIVERSIONS INCLUDING UNDERGROUND PUMPING, LESS MEASURED RETURN FLOW AND LESS CURRENT ESTIMATED UNMEASURED RETURN FLOW TO THE RIVER.

1/ NO SURFACE RETURNS UNLESS SHOWN ON REPORT.

2/ ESTIMATED BASED ON HISTORIC USE METHOD ADOPTED BY THE TASK FORCE ON UNMEASURED RETURN FLOWS ON AUGUST 28, 1984.

3/ DETAILS ON NEVADA SUPPLEMENTAL SHEET.

4/ MONTHLY FIGURES INCLUDE TOTAL OF ITEMS FOR USERS FOR WHICH MONTHLY DISTRIBUTION IS NOT SHOWN. DISTRIBUTED ACCORDING TO MONTHLY DISTRIBUTION OF OTHER USERS IN IMMEDIATE AREA.

PUMPAGE FROM COLORADO RIVER  
 AND WELLS IN FLOOD PLAIN  
 DAVIS DAM TO INTERNATIONAL BOUNDARY  
 CALENDAR YEAR 1987  
 STATE OF NEVADA

SUPPLEMENTAL SHEETS

(ACRE-FEET)

NAME OF PUMPER	LOCATION OF WELL/PUMP	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL 1/
Wiebke, Ethyl F.	SEC 33 T32S R66E MDB&M 2/													1
Portenier, Warren E.	SEC 33 T32S R66E MDB&M 2/													21
Soper, Irwin	SEC 33 T32S R66E MDB&M 2/													4
Knight, John B.	SEC 33 T32S R66E MDB&M 2/													5
Boy Scouts of America	SEC 5 T33S R66E MDB&M 2/													9

\*\*\*Total Nevada Supplemental \*\*\*

40

2/ REPORTS ANNUAL TOTAL.

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 1987



The following tabulations for calendar year 1987 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 for Nevada so no sheet is included in 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  
 CALENDAR YEAR 1987  
 STATE OF ARIZONA

		(ACRE-FEET)												
WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
CENTRAL ARIZONA PROJECT DIVERSION AT LAKE HAVASU	ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	1310	4720	4471	0	8655	17388	0	0	2105	4806	7056	5851	56362
	DIVERTED BY OTHERS DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	1310	4720	4471	0	8655	17388	0	0	2105	4806	7056	5851	56362
COLO. RIVER INDIAN RESERVATION DIVERSION AT HEADGATE ROCK	ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	1553	1749	2444	2743	2043	2003	2122	1626	1071	1273	899	1311	20837
	DIVERTED BY OTHERS DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	109	409	309	474	446	466	119	139	506	303	149	726	4155
		1444	1340	2135	2269	1597	1537	2003	1487	565	724	750	454	16305
YUMA PROVING GROUND U.S. ARMY DIVERSION AT IMPERIAL DAM 1/	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 DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	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 DELIVERED TO MEXICO IN SATISFACTION OF TREATY	331	399	639	1035	1279	1434	1591	1267	748	744	996	982	11445
	DIVERTED BY OTHERS DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	167	139	238	635	545	754	918	760	436	52	173	367	5184
		164	139	401	400	734	680	673	507	312	623	643	615	5891
		0	0	0	0	0	0	0	0	0	69	180	0	249
WARREN ACT CONTRACTORS GILA PROJECT DISTRICTS DIVERSION AT IMPERIAL DAM 1/	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 DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	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

QUANTITY OF SUCH WATER DELIVERED TO MEXICO IN SATISFACTION OF MEXICAN TREATY OR DIVERTED BY OTHERS  
CALENDAR YEAR 1987  
STATE OF ARIZONA

		(ACRE-FEET)												
WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
WELLTON-MOHAWK I. & D. DISTRICT DIVERSION AT IMPERIAL DAM	ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	3152	2866	3572	3741	6331	2041	4382	2961	4921	9644	5984	8311	57906
	DIVERTED BY OTHERS	1371	1238	680	1099	1932	553	1946	1121	1369	867	298	2001	14475
	DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	1781	1628	2892	2642	4399	1488	2436	1840	3552	8505	4609	5122	40894
		0	0	0	0	0	0	0	0	0	272	1077	1188	2537
YUMA IRRIGATION DISTRICT DIVERSION AT IMPERIAL DAM	ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	633	565	714	575	1033	1184	1347	2973	1208	1736	1010	1599	14577
	DIVERTED BY OTHERS	255	393	260	256	430	450	528	1960	607	309	323	482	6253
	DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	278	172	454	319	603	734	819	1013	601	1354	576	865	7788
		0	0	0	0	0	0	0	0	0	73	111	252	436
YUMA MESA I. & D. DISTRICT DIVERSION AT IMPERIAL DAM	ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	1424	1091	2951	2120	1494	355	210	643	2477	3100	3838	4015	23718
	DIVERTED BY OTHERS	494	672	1006	563	553	149	38	518	839	282	230	184	5528
	DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	930	419	1945	1557	941	206	172	125	1628	2572	3120	1961	15576
		0	0	0	0	0	0	0	0	0	246	488	1870	2604
UNIT "B" I. & D. DISTRICT DIVERSION AT IMPERIAL DAM	ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	393	430	240	238	246	1291	300	593	653	375	488	514	5761
	DIVERTED BY OTHERS	256	244	75	119	83	647	192	442	303	93	52	50	2556
	DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	137	186	165	119	163	644	108	151	350	282	321	406	3032
		0	0	0	0	0	0	0	0	0	0	115	58	173
CITY OF YUMA DIVERSION AT IMPERIAL DAM	ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	30	0	0	0	0	0	15	227	204	265	242	52	1035
	DIVERTED BY OTHERS	26	0	0	0	0	0	10	145	200	118	114	18	631
	DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	4	0	0	0	0	0	5	82	4	76	82	23	276
		0	0	0	0	0	0	0	0	0	0	46	11	57

RELEASE OF MAINSTREAM WATER PURSUANT TO ORDERS  
BUT NOT DIVERTED / RTY ORDERING SAME

QUANTITY OF SUCH WATER DELIVERED TO MEXICO IN SATISFACTION OF MEXICAN TREATY OR DIVERTED BY OTHERS  
CALENDAR YEAR 1987  
STATE OF ARIZONA

(ACRE-FEET)

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
YUMA COUNTY WATER USERS ASSN.	ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	2802	2834	2473	1208	3480	2566	2219	2161	714	2775	2549	5077	30858
	DIVERTED BY OTHERS	2446	2278	2333	856	2357	1827	1469	1381	700	1238	1199	1784	19868
	DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	356	556	699	352	1123	739	750	780	14	798	859	2255	9281
		0	0	0	0	0	0	0	0	0	739	491	1038	2268
COCOPAH INDIAN RESERVATION DIVERSION AT IMPERIAL DAM	ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	8	4	4	4	25	11	13	2	2	28	4	20	125
	DIVERTED BY OTHERS	7	3	4	3	17	8	9	1	2	13	2	7	76
	DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	1	1	0	1	8	3	4	1	0	8	1	9	37
		0	0	0	0	0	0	0	0	0	7	1	4	12
ARIZONA TOTALS	ORDERED BUT NOT DIVERTED	11636	14658	17508	11664	24586	28273	12199	12453	14103	24746	23066	27732	222624
	DELIVERED TO MEXICO IN SATISFACTION OF TREATY	0	0	0	0	0	0	0	0	0	0	0	0	0
	DIVERTED BY OTHERS	5131	5376	4905	4005	6363	4854	5229	6467	4962	3275	2540	5619	58726
	DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	6405	9161	13162	7659	18223	23419	6970	5986	9131	19748	18017	17561	155442
		0	0	0	0	0	0	0	0	0	0	0	0	0

1/ NO ORDER RECEIVED

2/ AVAILABLE FOR FUTURE USE.

RELEASE OF MAINSTREAM WATER PURSUANT TO ORDERS  
BUT NOT DIVERTED / WRTY ORDERING SAME

QUANTITY OF SUCH WATER DELIVERED TO MEXICO IN SATISFACTION OF MEXICAN TREATY OR DIVERTED BY OTHERS  
CALENDAR YEAR 1987  
STATE OF CALIFORNIA

		(ACRE-FEET)												
WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
METROPOLITAN WATER DISTRICT DIVERSION AT LAKE HAVASU	ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	2768	1086	3534	3445	3700	2346	4082	8227	4294	4954	5101	4696	48233
	DIVERTED BY OTHERS DELIVERED TO STORAGE 1/ DELIVERED TO MEXICO IN EXCESS OF TREATY	2768	1086	3534	3445	3700	2346	4082	8227	4294	4954	5101	4696	48233
PALO VERDE IRRIGATION DISTRICT DIVERSION AT PALO VERDE DAM	ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	1321	1218	1736	3126	3431	3513	8813	6101	3644	1478	2083	1640	38104
	DIVERTED BY OTHERS	230	424	492	496	843	992	674	1597	825	399	327	210	7509
	DELIVERED TO STORAGE 1/ DELIVERED TO MEXICO IN EXCESS OF TREATY	1091	794	1244	2630	2588	2521	8139	4504	2819	960	1756	1244	30290
		0	0	0	0	0	0	0	0	0	119	0	186	305
YUMA PROJECT RESV. DIVISION BARD UNIT DIVERSION AT IMPERIAL DAM	ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	1212	718	1438	988	1916	1047	903	1497	557	777	1719	2072	14844
	DIVERTED BY OTHERS	1051	562	1206	592	1287	690	782	1076	500	391	890	732	9759
	DELIVERED TO STORAGE 1/ DELIVERED TO MEXICO IN EXCESS OF TREATY	161	156	232	396	629	358	121	421	57	154	470	1031	4186
		0	0	0	0	0	0	0	0	0	0	0	0	0
YUMA PROJECT RESV. DIVISION INDIAN UNIT DIVERSION AT IMPERIAL DAM	ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	589	464	617	557	853	593	615	1124	636	459	1582	1537	9626
	DIVERTED BY OTHERS	510	363	518	333	280	390	533	808	571	231	819	542	5898
	DELIVERED TO STORAGE 1/ DELIVERED TO MEXICO IN EXCESS OF TREATY	79	101	99	224	573	202	82	316	65	91	432	764	3028
		0	0	0	0	0	0	0	0	0	0	0	0	0
IMPERIAL IRRIGATION DISTRICT DIVERSION AT IMPERIAL DAM	ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	781	5590	1226	2793	4108	482	716	3437	1789	9618	10903	6153	47596
	DIVERTED BY OTHERS	781	381	244	672	1002	65	204	2446	1549	702	1012	165	9223
	DELIVERED TO STORAGE 1/ DELIVERED TO MEXICO IN EXCESS OF TREATY	0	5209	982	2121	3106	417	512	991	240	1811	1901	2205	19495
		0	0	0	0	0	0	0	0	0	7105	7990	3783	18878

RELEASE OF MAINSTREAM WATER PURSUANT TO ORDERS  
BUT NOT DIVERTED BY TREATY ORDERING SAME

QUANTITY OF SUCH WATER DELIVERED TO MEXICO IN SATISFACTION OF MEXICAN TREATY OR DIVERTED BY OTHERS  
CALENDAR YEAR 1987  
STATE OF CALIFORNIA

		(ACRE-FEET)												
WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
COACHELLA WATER USERS ASSN. DIVERSION AT IMPERIAL DAM	ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	579	1571	1870	724	1022	75	188	331	22	835	1964	426	9607
	DIVERTED BY OTHERS	565	668	1234	345	659	73	186	298	12	547	1053	42	5682
	DELIVERED TO STORAGE 1/ DELIVERED TO MEXICO IN EXCESS OF TREATY	14	903	636	379	363	2	2	33	10	177	594	313	3426
		0	0	0	0	0	0	0	0	0	111	317	71	499
CALIFORNIA TOTALS	ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	7250	10647	10421	11633	15030	8056	15317	20717	10942	18121	23352	16524	168010
	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	3137	2398	3694	2438	4071	2210	2379	6225	3457	2270	4101	1691	38071
		4113	8249	6727	9195	10959	5846	12938	14492	7485	8147	10254	10253	108658
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	7335	8307	4040	19682

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 1987

DELIVERIES TO MEXICO IN SATISFACTION OF PART III OF 1944 TREATY  
AND  
WATER PASSING TO MEXICO IN EXCESS OF TREATY REQUIREMENTS  
CALENDAR YEAR 1987

(ACRE-FEET)

WATER USER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
DELIVERIES TO MEXICO IN SATISFACTION OF TREATY 1/	55371	62173	198624	219701	129714	175113	210784	222945	113499	77017	89178	145881	1700000
PASSING TO MEXICO IN EXCESS OF TREATY REQUIREMENTS 2/	1030559	703819	351467	70085	91182	60006	43663	64333	133788	183975	98251	213096	3044224

1/ INCLUDES 200,000 ACRE-FEET SCHEDULED SURPLUS UNDER PARAGRAPH (E) ARTICLE 15 OF THE 1944 TREATY WITH MEXICO.

2/ INCLUDES 97,741 ACRE-FEET BYPASS DELIVERED PURSUANT TO MINUTE 242.



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 1987

DIVERIONS OF WATER FROM MAINSTR. OF GILA AND SAN FRANCISCO RIVERS  
 AND  
 CONSUMPTIVE USE OF SUCH WATER FOR BENEFIT OF THE GILA NATIONAL FOREST  
 CALENDAR YEAR 1987

(ACRE-FEET)

		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

REVISION OF RECORDS  
FOR CALENDAR YEAR 1986

DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1986  
STATE OF CALIFORNIA

FINAL RECORDS		(ACRE-FEET)												
WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
PALO VERDE IRRIGATION DISTRICT														
DIVERSION FROM PALO VERDE DAM	DIVERSION	36978	52948	81433	94553	90705	96735	102825	107300	81490	47312	42723	36986	871988
	RETURNS	32480	31070	38070	39180	42530	41560	43690	44910	44780	40580	35340	33220	467410
	CONSUMPTIVE USE	4498	21878	43363	55373	48175	55175	59135	62390	36710	6732	7383	3766	404578
YUMA PROJECTS, RES. DIV. INDIAN UNIT														
DIVERSION AT IMPERIAL DAM	DIVERSION	1900	2264	3036	3386	2443	1498	2402	2957	2673	2439	1611	1102	27711
	RETURNS	6	13	16	24	4	6	4	6	22	13	18	2	134
	CONSUMPTIVE USE	1894	2251	3020	3362	2439	1492	2398	2951	2651	2426	1593	1100	27577
YUMA PROJECTS, RES. DIV. BARD UNIT														
DIVERSION AT IMPERIAL DAM	DIVERSION	3075	2894	5019	5938	4775	4560	5254	3912	3086	3412	2546	2336	46807
	RETURNS	6	12	16	25	6	9	7	6	14	13	16	4	134
	CONSUMPTIVE USE	3069	2882	5003	5913	4769	4551	5247	3906	3072	3399	2530	2332	46673
RETURNS FROM YUMA PROJECT RESERVATION DIVISION RETURNS														
	RETURNS 2/	2409	2398	3362	3406	2836	2758	2975	3367	2576	3388	3126	2699	35300
IMPERIAL IRRIGATION DISTRICT														
DIVERSION AT IMPERIAL DAM	DIVERSION	154910	146651	269599	313405	305741	276393	276108	260943	245604	179661	148749	124764	2702528
	RETURNS	1106	1725	2633	4235	1208	1621	1158	1089	3726	2061	3036	556	24154
	CONSUMPTIVE USE	153804	144926	266966	309170	304533	274772	274950	259854	241878	177600	145713	124208	2678374
COACHELLA VALLEY WATER DISTRICT														
DIVERSION AT IMPERIAL DAM	DIVERSION	19104	15049	29477	33913	37190	37641	40290	42870	33466	21851	17183	14631	342665
	RETURNS	136	190	287	459	147	221	169	180	507	251	350	66	2963
	CONSUMPTIVE USE	18968	14859	29190	33454	37043	37420	40121	42690	32959	21600	16833	14565	339702

REVISION FOR 1986

DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1986  
STATE OF CALIFORNIA

FINAL RECORDS

(ACRE-FEET)

WATER USER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
CALIFORNIA TOTALS													
DIVERSION	300526	319810	500219	567991	559719	536562	547229	538903	479379	369673	324070	295122	5339241
RETURNS	36524	35742	44745	47664	47071	46504	48364	49904	51973	46665	42220	36915	534291
CONSUMPTIVE USE	264002	284068	455474	520327	512648	490058	498865	488999	427406	323008	281850	258207	4804950