

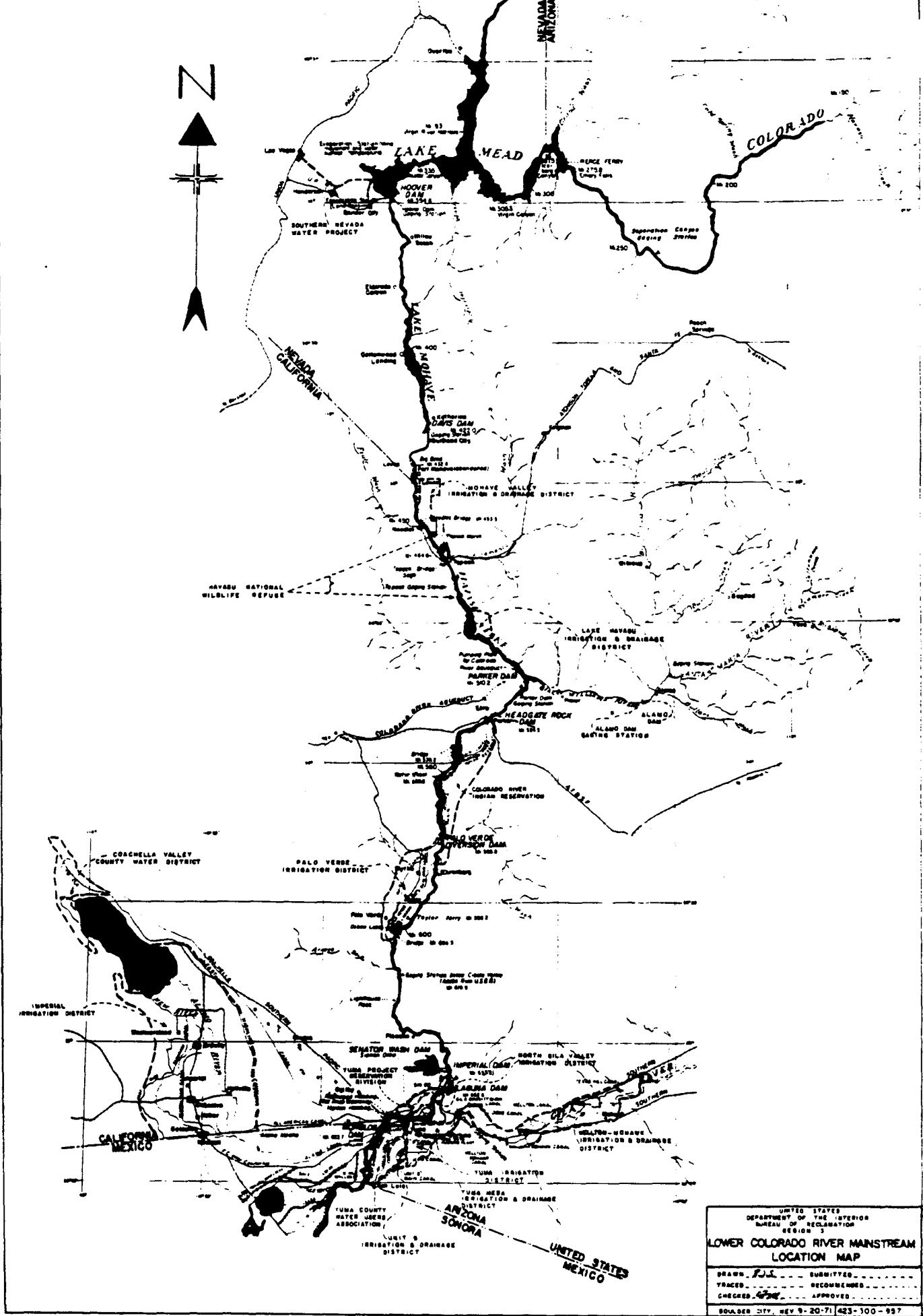
COMPILATION OF RECORDS IN  
ACCORDANCE WITH ARTICLE V OF THE  
DECREE OF THE SUPREME COURT OF  
THE UNITED STATES IN  
ARIZONA v. CALIFORNIA DATED MARCH 9, 1964

C A L E N D A R   Y E A R   1 9 8 8

Bureau of Reclamation  
Lower Colorado Region  
Boulder City, Nevada

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UNITED STATES  
 DEPARTMENT OF THE INTERIOR  
 BUREAU OF RECLAMATION  
 SECTION 3

**LOWER COLORADO RIVER MAINSTREAM  
 LOCATION MAP**

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

BOULDER CITY, NEV 9-20-71 423-100-997

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

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CALENDAR YEAR 1988

The following tabulations for calendar year 1988 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 "Divisions 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 1988

(ACRE-FEET)

STRUCTURE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL 1/
HOOVER DAM	829500	743400	827300	996500	879700	912700	892100	1015000	709500	525300	512400	576100	9420000
DAVIS DAM	660000	623500	922700	921100	910400	988400	1149000	992000	719700	548400	485100	507800	9428000
PARKER DAM	589100	504100	732800	699400	739100	771400	906500	811500	576600	455200	362300	359600	7508000
HEADGATE ROCK DAM 2/	578700	468500	671000	647700	665700	688800	818500	739000	520400	416800	334100	333400	6883000
PALO VERDE DAM 3/	598500	427400	577600	547800	560700	535400	645700	634100	452900	384200	305200	308900	5978000
IMPERIAL DAM 4/	36550	34420	32610	48330	40820	32740	32700	55380	43540	34400	31820	31190	454500
LAGUNA DAM	39550	37670	34670	47330	42140	35730	38490	61300	49950	39230	35700	34960	496700

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, THROUGH SEPTEMBER. FLOWS FROM OCTOBER THROUGH DECEMBER ARE CALCULATED AS FLOW AT COLORADO RIVER BELOW PALO VERDE DAM LESS FLOW AT THE TWO COLORADO RIVER INDIAN RESERVATION DRAINS ENTERING BELOW PALO VERDE DAM AND GAGING STATION AT COLORADO RIVER BELOW 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

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CALENDAR YEAR 1988

The following tabulations for calendar year 1988 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 1988 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 MAINS. M-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1988  
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	12	12	19	11	26	34	41	35	30	28	19	16	283
	RETURNS CONSUMPTIVE USE	12	12	19	11	26	34	41	35	30	28	19	16	283
L.C.R.D. PROJECT (DAVIS DAM) DIVERSION AT DAVIS DAM	DIVERSION	4	4	6	5	9	11	14	18	13	17	12	9	122
	RETURNS CONSUMPTIVE USE	4	4	6	5	9	11	14	18	13	17	12	9	122
MOHAVE COUNTY PARKS DIVERSION AT DAVIS DAM	DIVERSION	2	3	1	4	12	13	14	8	7	4	2	1	71
	RETURNS CONSUMPTIVE USE	2	3	1	4	12	13	14	8	7	4	2	1	71
BULLHEAD CITY PUMPED FROM WELLS	DIVERSION	396	396	396	396	396	396	396	396	396	396	396	396	4752
	RETURNS CONSUMPTIVE USE	396	396	396	396	396	396	396	396	396	396	396	396	4752
MOHAVE WATER CONSERVATION PUMPED FROM WELLS	DIVERSION 2/ RETURNS													310
	CONSUMPTIVE USE													310
CONSOLIDATED WATER UTILITIES PUMPED FROM RIVER	DIVERSION	20	20	24	24	31	33	39	34	31	28	23	20	327
	RETURNS CONSUMPTIVE USE	20	20	24	24	31	33	39	34	31	28	23	20	327
MOHAVE VALLEY I. & D. DISTRICT PUMPED FROM WELLS	DIVERSION	531	1145	2116	2153	2897	3964	4125	3845	3399	2057	1246	1384	28862
	RETURNS CONSUMPTIVE USE	531	1145	2116	2153	2897	3964	4125	3845	3399	2057	1246	1384	28862

DIVERSIONS FROM MAINS. A-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1988  
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													62204 62204
HAVASU NATIONAL WILDLIFE REFUGE INLET-NW NE NW SEC 33 T9N R5SW G&SRM 1 WELL SEC15 T8N R23E SEC15	DIVERSION DIVERSION RETURNS CONSUMPTIVE USE	3729 2 3731	0 8 8	3342 15 3357	4939 12 4951	3162 17 3179	5849 20 5869	6022 21 6043	4425 17 4442	3560 13 3573	1961 9 1970	1228 7 1235	899 6 905	39116 147 39263
LAKE HAVASU IRRIGATION AND DRAINAGE DISTRICT PUMPED FROM WELLS	DIVERSION RETURNS CONSUMPTIVE USE	607 607	627 627	806 806	781 781	1078 1078	1123 1123	1369 1369	1283 1283	1149 1149	1173 1173	909 909	759 759	11664 11664
CENTRAL ARIZONA PROJECT PUMPED FROM LAKE HAVASU	DIVERSION RETURNS CONSUMPTIVE USE	9505 9505	15644 15644	41558 41558	34664 34664	49828 49828	79428 79428	108472 108472	79301 79301	36441 36441	13942 13942	15714 15714	14828 14828	499325 499325
TOWN OF PARKER 1 WELL-NW NW NW SEC 7 T9N R19W G&SRM	DIVERSION RETURNS CONSUMPTIVE USE	55 55	58 58	78 78	72 72	108 108	703 703	141 141	116 116	96 96	97 97	62 62	49 49	1635 1635
COLORADO RIVER INDIAN RESERVATION DIVERSION AT HEADGATE ROCK DAM 6 PUMPS	DIVERSION DIVERSION 4/ RETURNS CONSUMPTIVE USE	10431 40 13730 -3259	35622 44 16093 19573	61782 74 21150 40706	51686 85 22124 29647	73440 114 23640 49914	82593 138 21383 61348	88028 146 24764 63410	72541 145 29313 43373	56246 125 23497 32874	38400 120 23636 14884	28156 89 18889 9356	26180 67 17993 8254	625105 1187 256212 370080
EHRENBERG IMPROVEMENT ASSN. 1 PUMP SW SEC 3 T3N R22W G&SRM	DIVERSION RETURNS CONSUMPTIVE USE	11 11	11 11	15 15	16 16	23 23	27 27	28 28	21 21	22 22	20 20	18 18	17 17	229 229

DIVERIONS FROM MAINS. M-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1988  
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	383	249	3052	1570	2374	4185	4832	2834	2349	1223	625	660	24336
	RETURNS													
	CONSUMPTIVE USE	383	249	3052	1570	2374	4185	4832	2834	2349	1223	625	660	24336
CIBOLA NATIONAL WILDLIFE REFUGE 3 PUMPS	DIVERSION	175	198	408	776	634	1091	847	724	678	1747	1963	869	10110
	RETURNS													
	CONSUMPTIVE USE	175	198	408	776	634	1091	847	724	678	1747	1963	869	10110
IMPERIAL NATIONAL WILDLIFE REFUGE 2 WELLS SEC 13 T5S R22W G&SRM	DIVERSION 2/													24
	RETURNS													
	CONSUMPTIVE USE													24
YUMA PROVING GROUND DIVERSION AT IMPERIAL DAM	DIVERSION	1	0	0	1	2	1	2	3	2	2	0	4	18
	RETURNS													
	CONSUMPTIVE USE	1	0	0	1	2	1	2	3	2	2	0	4	18
WARREN ACT CONTRACTORS DIVERSION AT IMPERIAL DAM	DIVERSION	116	432	483	350	453	625	584	576	655	393	451	400	5518
	RETURNS													
	CONSUMPTIVE USE	116	432	483	350	453	625	584	576	655	393	451	400	5518
WELLTON MOHAWK I. & D. DISTRICT DIVERSION AT IMPERIAL DAM	DIVERSION	14287	33612	40941	40415	49771	51678	53739	44985	48924	27448	23263	21657	450720
	RETURNS	5824	8846	10515	10705	10554	9723	9525	12583	12796	12210	12377	12944	128602
	CONSUMPTIVE USE	8463	24766	30426	29710	39217	41955	44214	32402	36128	15238	10886	8713	322118
CITY OF YUMA DIVERSION AT IMPERIAL DAM	DIVERSION	1264	1319	1539	1487	1918	2153	2277	2062	2015	1753	1499	1452	20738
	RETURNS	788	783	854	766	792	777	802	790	842	822	731	861	9608
	CONSUMPTIVE USE	476	536	685	721	1126	1376	1475	1272	1173	931	768	591	11130

DIVERSIONS FROM MAINS AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1988  
STATE OF ARIZONA

FINAL RECORDS		(ACRE-FEET)												
WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS 1/
MARINE CORPS AIR STATION (YUMA)														
DIVERSION AT IMPERIAL DAM	DIVERSION	50	61	176	180	261	225	321	305	267	165	101	6	2118
	RETURNS													
	CONSUMPTIVE USE	50	61	176	180	261	225	321	305	267	165	101	6	2118
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	38	58	76	50	102	113	118	146	69	113	42	59	984
	RETURNS													
	CONSUMPTIVE USE	38	58	76	50	102	113	118	146	69	113	42	59	984
YUMA UNION HIGH SCHOOL														
DIVERSION AT IMPERIAL DAM	DIVERSION	7	2	17	10	24	22	22	24	21	11	4	3	167
	RETURNS													
	CONSUMPTIVE USE	7	2	17	10	24	22	22	24	21	11	4	3	167
CAMILLE, ALEC. JR.														
DIVERSION AT IMPERIAL DAM	DIVERSION	1	0	3	2	1	3	5	3	4	3	0	2	27
	RETURNS													
	CONSUMPTIVE USE	1	0	3	2	1	3	5	3	4	3	0	2	27

DIVERSTIONS FROM MAINS. A-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1988  
STATE OF ARIZONA

FINAL RECORDS		(ACRE-FEET)												
WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS 1/
DESERT LAWN MEMORIAL DIVERSION AT IMPERIAL DAM	DIVERSION	0	0	7	7	11	15	22	15	10	9	4	5	105
	RETURNS													
	CONSUMPTIVE USE	0	0	7	7	11	15	22	15	10	9	4	5	105
NORTH GILA VALLEY IRRIGATION DISTRICT DIVERSION AT IMPERIAL DAM	DIVERSION	3101	3364	4514	5063	6259	5898	4315	2982	4557	4855	3279	3443	51630
	RETURNS	2164	2501	2523	2373	3178	3241	2615	2061	2946	3362	2482	2509	31955
	CONSUMPTIVE USE	937	863	1991	2690	3081	2697	1700	921	1611	1493	797	934	19675
YUMA IRRIGATION DISTRICT DIVERSION AT IMPERIAL DAM PUMPED FROM PRIVATE WELLS	DIVERSION	2986	3996	5465	5627	6630	5093	5068	4507	6878	5123	4548	3646	59567
	DIVERSION	434	726	572	751	1136	1089	1203	879	409	555	658	571	8983
	RETURNS	501	670	876	880	1000	767	757	818	1170	847	714	664	9664
	CONSUMPTIVE USE	2919	4052	5161	5498	6766	5415	5514	4568	6117	4831	4492	3553	58886
YUMA MESA I. & D. DISTRICT DIVERSION AT IMPERIAL DAM	DIVERSION	9151	11584	16347	17486	25347	29258	32038	28894	23399	15367	14333	14842	238046
	RETURNS	1802	1896	2116	2184	2110	1607	1662	1325	1571	1474	753	1374	19874
	CONSUMPTIVE USE	7349	9688	14231	15302	23237	27651	30376	27569	21828	13893	13580	13468	218172
UNIT "B" I. & D. DISTRICT DIVERSION AT IMPERIAL DAM	DIVERSION	1560	1953	2687	2543	3613	4042	3923	4069	3207	2837	2293	2463	35190
	RETURNS	318	335	373	385	372	284	293	234	277	260	133	242	3506
	CONSUMPTIVE USE	1242	1618	2314	2158	3241	3758	3630	3835	2930	2577	2160	2221	31684
YUMA COUNTY WATER USERS ASSOCIATION DIVERSION AT IMPERIAL DAM PUMPED FROM WELLS	DIVERSION	14503	18964	25069	24987	32081	28316	31496	28601	30690	37919	23117	18337	314080
	DIVERSION	219	248	229	229	235	249	210	228	620	704	814	807	4792
	RETURNS	9835	8627	9036	8757	9250	7746	8505	8917	9446	12806	11602	11788	116315
	CONSUMPTIVE USE	4887	10585	16262	16459	23066	20819	23201	19912	21864	25817	12329	7356	202557
COCOPA INDIAN RESERVATION DIVERSION AT IMPERIAL DAM PUMPED FROM WELLS	DIVERSION	59	53	26	0	227	128	267	136	5	0	264	27	1192
	DIVERSION	1	1	0	0	2	1	2	1	0	0	9	1	18
	RETURNS	0	1	0	0	4	2	4	2	0	0	4	1	18
	CONSUMPTIVE USE	60	53	26	0	225	127	265	135	5	0	269	27	1192

DIVERSIONS FROM MAINS 4-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1988  
STATE OF ARIZONA

FINAL RECORDS		(ACRE-FEET)												
WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS 1/
PUMPED FROM SOUTH GILA WELLS	RETURNS 5/	4166	4422	4533	4479	4525	4510	5362	4782	4143	4852	5010	5150	55934
OTHER USERS PUMPING FROM COLORADO RIVER AND WELLS IN FLOOD PLAIN DAVIS DAM TO INTERNATIONAL BOUNDARY	DIVERSION 6/	1486	2492	5444	4520	4657	5380	6418	6337	4967	3308	2617	3025	50651
ARIZONA TOTALS	DIVERSION 7/	77059	136237	222769	205958	273561	321746	365486	297801	237065	165871	130990	119882	2554425
	RETURNS	39128	44174	51976	52653	55425	50040	54289	60825	56688	60269	52695	53526	631688
	CONSUMPTIVE USE	37931	92063	170793	153305	218136	271706	311197	236976	180377	105602	78295	66356	1922737

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 IMMEDIATE AREA.

PUMPAGE FRC LORADO RIVER  
AND WELLS IN FLOOD PLAIN  
DAVIS DAM TO INTERNATIONAL BOUNDARY  
CALENDAR YEAR 1988  
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	74	532	561	660	1007	856	802	846	912	628	505	360	7744
Jack Rayner Jr.	(B-04-22)34 DCC	34	41	1144	305	80	139	497	1228	473	54	58	49	4101
Jack Rayner Jr.	(B-04-22)34 DCC	5	0	363	86	25	30	277	165	122	9	26	19	1126
Geo Arakelian	(B-03-22)16 DBD	83	95	285	335	424	485	441	431	228	511	113	88	3518
Adrin Towery	(B-01022)21 BCD 2/													2662
L Pratt	SEC14 T7S R22W ABC 2/													210
L Pratt	SEC14 T7S R22W BCD 2/													210
A Dulin	SEC08 T08S R22E DAC	51	2	164	175	131	211	243	319	220	120	46	148	1830
A Dulin	SEC07 T08S R22W CCD	55	0	278	71	170	297	332	347	316	86	0	127	2079
Pete Auza	SEC18 T08S R22W CBD	83	127	123	197	205	133	279	241	271	68	77	117	1920
Pete Auza	SEC24 T08S R22W BDD	212	301	273	393	387	556	333	367	511	279	388	331	4331
Pete Auza	SEC18 T08S R22W DDD 2/													1590
R. Yowelman	SEC17 T08S R22W CCB 2/													720
Cameron Bros.	SEC24 T08S R22W CCB	20	25	2	53	93	106	92	32	24	2	12	59	518
Judd T. Ott	SEC30 T08S R22W BAB	0	31	9	33	42	50	65	37	35	34	16	14	364
Judd T. Ott	SEC19 T08S R22W CCD	112	111	63	68	75	93	135	112	95	69	55	87	1074
Cameron Bros	SEC24 T08S R22W CAD	13	4	24	61	71	96	72	28	10	19	21	67	484
Harp (R. Harp)	SEC13 T08S R23W AAD 2/													1458
Ott	SEC24 T08S R23W DCC	28	26	47	17	95	120	124	144	27	108	84	110	927
Peach	SEC22 T08S R23W DDC	0	0	42	18	32	46	41	0	50	46	20	17	311
AZ Prod	SEC23 T08S R23W CDA	8	11	13	18	21	16	17	15	10	17	7	2	155
Yucca Pwr Plant	SEC36 T16S R21E CBA 4/													406
Dwane Slade	SEC28 T16S R22E CDA	3	8	12	2	0	26	16	12	19	34	12	13	157
Curtis Jennings	SEC29 T16S R22E DAC	13	18	6	58	0	35	30	38	0	0	195	13	405
R.E. Power P. Power	SEC30 T16S R22E ACC 2/													2850
Ansil Hall	SEC36 T16S R21E BCB 2/													480
West Cocopa RV	SEC25 T16S R21E	0	0	0	0	0	0	0	0	0	0	0	353	353
Sturges	C-08-22 14CDD	92	123	121	191	177	167	161	41	78	133	41	57	1382
Sturges	C-08-22 18ADD	14	121	134	140	29	41	97	98	88	9	59	39	869
Sturges	C-08-22 13BBB	30	16	79	101	104	141	187	94	41	28	3	15	838
Sturges	C-08-22 13DAD	35	41	42	51	57	33	109	57	9	42	29	41	546
Sturges	C-08-22 04DAA	74	60	175	159	178	224	235	149	78	95	113	30	1570
Sturges	C-08-21 18CDB	32	22	51	53	35	86	127	54	76	56	16	31	637
Sturges	C-08-21 18BAC	46	192	215	218	63	79	131	82	137	51	102	104	1421
Sturges	C-08-22 14CAA	48	60	66	104	100	88	80	22	25	47	26	27	694
Sturges	C-08-21 18BCD	8	0	4	0	0	9	48	23	15	2	1	21	131
Sturges	C-08-22 15BBB	0	0	0	0	74	75	86	19	50	64	40	48	455
Arizona Western College	C-08-22 35C 4/													20
BLM PERMITTEES	4/													104
MONTHLY DISTRIBUTION NOT SHOWN FOR USERS	3/	313	525	1148	953	982	1142	1361	1336	1047	697	552	638	

PUMPAGE FROM COLORADO RIVER  
 AND WELLS IN COOD PLAIN  
 DAVIS DAM TO INTERNATIONAL BOUNDARY  
 CALENDAR YEAR 1988  
 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/
*** Total Arizona Supplemental ***														
		1486	2492	5444	4520	4657	5380	6418	6337	4967	3308	2617	3025	50651
	<i>Imp</i>	<i>1141</i>	<i>1706</i>	<i>2890</i>	<i>2917</i>	<i>2855</i>	<i>3548</i>	<i>4049</i>	<i>3329</i>	<i>2916</i>	<i>1883</i>	<i>1757</i>	<i>2353</i>	

- 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/ REPORTS ANNUAL TOTAL



DIVERSIONS FROM MAINSTA AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1988  
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	DIVERSION 7/ RETURNS CONSUMPTIVE USE													22344 22344
CITY OF NEEDLES 4 WELLS NW SW SEC 29 T9N R23E SBM	DIVERSION RETURNS CONSUMPTIVE USE	109 32 77	126 29 97	242 36 206	206 36 170	320 46 274	401 49 352	472 55 417	398 41 357	327 49 278	275 48 227	188 36 152	139 33 106	3203 490 2713
METROPOLITAN WATER DISTRICT DIVERSION FROM LAKE HAVASU	DIVERSION RETURNS 2/ CONSUMPTIVE USE	103115 323 102792	88448 292 88156	103354 323 103031	99686 303 99383	99078 270 98808	101025 259 100766	104548 234 104314	105713 237 105476	93933 252 93681	102042 287 101755	100180 300 99880	102449 310 102139	1203571 3390 1200181
PARKER DAM AND GOVERNMENT CAMP DIVERSION AT PARKER DAM	DIVERSION RETURNS CONSUMPTIVE USE	7 7	10 10	14 14	18 18	28 28	34 34	37 37	33 33	32 32	33 33	16 16	11 11	273 273
COLORADO RIVER INDIAN RESERVATION PUMPED FROM 11 PUMPS AND WELLS 4 PUMPS BIG RIVER	DIVERSION 4/ DIVERSION 4/ RETURNS CONSUMPTIVE USE	48 83 131	29 90 119	91 129 220	184 129 313	154 171 325	283 186 469	411 218 629	479 197 676	237 181 418	285 165 450	119 116 235	130 90 220	2450 1755 4205
CITY OF WINTERHAVEN 1 WELL SE SE NE SEC 27 T16S R22E SBM	DIVERSION 8/ RETURNS CONSUMPTIVE USE													127 127
PALO VERDE IRRIGATION DISTRICT DIVERSION FROM PALO VERDE DAM	DIVERSION RETURNS CONSUMPTIVE USE	29245 28250 995	53630 29462 24168	87512 34515 52997	71424 36396 35028	98064 37629 60435	110302 41467 68835	128451 44725 83726	99502 48590 50912	69795 42487 27308	51962 40352 11610	47299 35239 12060	51464 35717 15747	898650 454829 443821

DIVERSIONS FROM MAINSTK AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1988  
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	2199	2844	3249	3182	4480	3708	4670	4415	3964	5590	3482	2105	43888
	RETURNS	5	32	27	30	68	41	62	42	92	70	43	52	564
	CONSUMPTIVE USE	2194	2812	3222	3152	4412	3667	4608	4373	3872	5520	3439	2053	43324
YUMA PROJECTS, RES. DIV. BARD UNIT														
DIVERSION AT IMPERIAL DAM	DIVERSION	1996	3273	4587	5164	5791	6196	5657	4285	4669	5378	3166	3064	53226
	RETURNS	3	22	22	29	53	41	43	23	63	39	23	41	402
	CONSUMPTIVE USE	1993	3251	4565	5135	5738	6155	5614	4262	4606	5339	3143	3023	52824
RETURNS FROM YUMA PROJECT RESERVATION DIVISION RETRUNS														
	RETURNS 3/	2201	2011	2414	2126	2631	2417	2291	2638	2235	2845	2643	2222	28674
IMPERIAL IRRIGATION DISTRICT														
DIVERSION AT IMPERIAL DAM	DIVERSION	142594	153636	286780	302209	332644	297275	331771	306696	272657	231571	192571	163783	3014187
	RETURNS	665	3048	3998	5014	8988	5811	7365	4955	10961	5178	4091	6532	66606
	CONSUMPTIVE USE	141929	150588	282782	297195	323656	291464	324406	301741	261696	226393	188480	157251	2947581
COACHELLA VALLEY WATER DISTRICT														
DIVERSION AT IMPERIAL DAM	DIVERSION	16885	22287	32769	28765	38149	34314	36571	38475	31717	24733	16632	18014	339311
	RETURNS	79	442	457	477	1031	671	812	622	1275	553	353	718	7490
	CONSUMPTIVE USE	16806	21845	32312	28288	37118	33643	35759	37853	30442	24180	16279	17296	331821
OTHER USER PUMPING FROM COLORADO RIVER AND WELLS IN FLOOD PLAIN DAVIS DAM TO INTERNATIONAL BOUNDARY														
	DIVERSION 5/	331	690	1454	900	1693	2489	2492	2080	2038	1519	1951	1502	19139
CALIFORNIA TOTALS														
	DIVERSION 6/	297009	325879	521889	512928	582559	559130	618218	564712	481940	425337	368009	344514	5602124
	RETURNS	31558	35338	41792	44411	50716	50756	55587	57148	57414	49372	42728	45625	562445
	CONSUMPTIVE USE	265451	290541	480097	468517	531843	508374	562631	507564	424526	375965	325281	298889	5039679

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.
- 8/ REPORTS ANNUALLY.

PUMPAGE FROM RADO RIVER  
AND WELLS IN FLOOD PLAIN  
DAVIS DAM TO INTERNATIONAL BOUNDARY  
CALENDAR YEAR 1988  
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	SEC16 T15N R24E BAD 2/	2	1	2	2	3	3	4	4	3	2	2	2	30
Barrett (R. Harp)	SEC06 T08S R22W BCD 2/													900
Ralph Land	SEC35 T15S R23E DDC	0	0	168	0	2	205	155	156	78	2	0	9	775
Ralph Land	SEC22 T16S R23E BDD	0	0	84	26	36	54	115	124	53	24	21	66	603
Pete Power	SEC14 T16S R23E CCB 2/													1992
F. Perez (Slade)	SEC06 T08S R22W CDA	69	248	206	124	285	424	279	218	373	208	493	558	3485
M. Spencer	SEC09 T16S R23E CAC	0	0	43	7	126	136	129	67	84	81	488	84	1245
F. Schaffer-Harp	SEC02 T08S R23W ADC 2/													330
Taylor Bros	SEC02 T08S R23W DDA	38	15	32	42	30	38	12	20	51	27	5	11	321
Wilson (R. Harp)	SEC12 T08S R23W BBA	35	56	206	68	80	127	165	115	103	41	91	77	1164
Kitti Easterday	SEC01 T08S R23W DCC	0	0	2	36	103	134	102	117	126	142	0	0	762
Wetmore, Mark M.	SEC 21 T16S R22E SBM													9
Sherman, Margeret T.	SEC 21 T16S R22E SBM													24
Picacho/Ca State	4/													104
Dorothy Andrade	4/													2
Wetmore, Kenneth C.	4/													5
Williams, Jerry	4/													1
Brown, Jack D.	4/													2
Larry Kennedy	T11N R22E SEC31 BAD													774
Russell Bros.	T11N R22E SEC36 DAC													816
Southern Cal Gas	T09E R23E SEC29 DDD													59
Alex Dees	SEC01 T8S R23W	49	60	115	193	236	259	387	294	269	191	45	60	2158
E. Evans (R. Harp)	SEC12 T8S R23W	2	39	9	0	24	45	6	20	39	113	110	53	460
P. Harp (R. Harp)	SEC12 T8S R23W													882
K. Easterday	SEC1 T8S R23W	0	0	2	36	103	134	102	117	126	142	0	0	762
F. Smith (P. Power)	SEC11 T8S R23W	36	53	119	81	122	128	234	160	78	59	68	100	1238
BLM PERMITTEES		13	12	17	11	22	27	30	29	23	17	11	13	236
MONTHLY DISTRIBUTION FOR THOSE NOT SHOWN 3/		102	219	468	287	546	805	806	672	658	489	630	484	
*** Total California Supplemental ***		331	690	1454	900	1693	2489	2492	2080	2038	1519	1951	1502	19139
		90	72	122	72	161	196	212	205	201	135	96	95	

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/ LOCATION OF WELL/PUMP WAS NOT REPORTED.

DIVERIONS FROM MAINSTREAM AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1988  
STATE OF NEVADA

FINAL RECORDS		(ACRE-FEET)												
WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS 1/
<b>BOULDER CANYON PROJECT</b>														
DIVERSION AT HOOVER DAM	DIVERSION	7	8	7	8	10	10	9	3	4	5	3	3	77
	RETURNS	0	7	6	6	8	7	7	1	2	3	1	2	50
	CONSUMPTIVE USE	7	1	1	2	2	3	2	2	2	2	2	1	27
<b>BOULDER CITY</b>														
DIVERSION AT HOOVER DAM	DIVERSION	0	0	0	0	0	0	0	0	0	0	0	4	4
	RETURNS	0	0	0	0	0	0	0	0	0	0	0	2	2
	CONSUMPTIVE USE	0	0	0	0	0	0	0	0	0	0	0	2	2
<b>ROBERT B. GRIFFITH WATER PROJECT</b>														
DIVERSION AT SADDLE ISLAND, LAKE MEAD	DIVERSION	9777	10613	15004	15356	18752	19626	23973	21411	17701	17769	13540	12433	195955
	RETURNS													
	CONSUMPTIVE USE	9777	10613	15004	15356	18752	19626	23973	21411	17701	17769	13540	12433	195955
<b>LAKE MEAD NATIONAL RECREATION AREA</b>														
DIVERSION AT LAKE MEAD	DIVERSION	42	38	54	54	71	86	111	87	75	78	60	44	800
	RETURNS	0	0	0	0	0	0	2	0	0	0	0	0	2
	CONSUMPTIVE USE	42	38	54	54	71	86	109	87	75	78	60	44	798
<b>BASIC MANAGEMENT INC.</b>														
DIVERSION AT SADDLE ISLAND, LAKE MEAD	DIVERSION	752	816	752	841	1037	1185	1344	1197	1178	1301	1037	629	12069
	RETURNS													
	CONSUMPTIVE USE	752	816	752	841	1037	1185	1344	1197	1178	1301	1037	629	12069
<b>NEVADA STATE DEPARTMENT OF FISH &amp; GAME</b>														
DIVERSION AT SADDLE ISLAND, LAKE MEAD	DIVERSION	373	346	376	360	376	352	341	369	365	383	359	376	4376
	RETURNS	373	346	376	360	375	352	341	368	365	383	359	375	4373
	CONSUMPTIVE USE	0	0	0	0	1	0	0	1	0	0	0	1	3
<b>PACIFIC COAST BUILDING PRODUCTS INC.</b>														
DIVERSION AT GYPSUM WASH, LAKE MEAD	DIVERSION	59	71	75	65	71	68	65	71	73	70	70	66	824
	RETURNS													
	CONSUMPTIVE USE	59	71	75	65	71	68	65	71	73	70	70	66	824

DIVERSIONS FROM MAINSTR. AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1988  
STATE OF NEVADA

FINAL RECORDS		(ACRE-FEET)												
WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS 1/
SOUTHERN CALIFORNIA EDISON PUMPED FROM SEC 24 T32S R66E MDB&M	DIVERSION	1335	979	775	1180	1619	1697	1894	1757	1352	1680	732	985	15985
	RETURNS													
	CONSUMPTIVE USE	1335	979	775	1180	1619	1697	1894	1757	1352	1680	732	985	15985
BIG BEND WATER DISTRICT 1 PUMP SEC 13 T32S R66E MDB&M	DIVERSION	123	124	155	156	189	228	251	232	238	231	192	179	2298
	RETURNS													
	CONSUMPTIVE USE	123	124	155	156	189	228	251	232	238	231	192	179	2298
LAS VEGAS WASH RETURN FLOWS	RETURNS 2/	7780	7550	8610	8220	8070	7680	8380	8770	8090	8450	8170	8790	98560
OTHER USERS PUMPING FROM COLORADO RIVER AND WELLS IN FLOOD PLAIN ABOVE DAVIS DAM	DIVERSION 3/	1	1	1	2	2	2	3	2	2	1	1	1	19
NEVADA TOTALS	DIVERSION	12469	12996	17199	18022	22127	23254	27991	25129	20988	21518	15994	14720	232407
	RETURNS	8153	7903	8992	8586	8453	8039	8730	9139	8457	8836	8530	9169	102987
	CONSUMPTIVE USE	4316	5093	8207	9436	13674	15215	19261	15990	12531	12682	7464	5551	129420

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 SHEETS. MONTHLY DISTRIBUTION SHOWN HERE IS DISTRIBUTED ACCORDING TO MONTHLY DISTRIBUTION OF OTHER USERS IN IMMEDIATE AREA.

PUMPAGE FROM COLORADO RIVER  
AND WELLS IN FLOOD PLAIN  
ABOVE DAVIS DAM  
CALENDAR YEAR 1988  
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/
Knight, John B.	SEC 33 T32S R66E	MDB&M													7
Boy Scouts of America	SEC 5 T33S R66E	MDB&M													10
Crocker, Edward															1
Wiebke, Ethyl F.	SEC 33 T32S R66E	MDB&M													1
MONTHLY DISTRIBUTION FOR THOSE NOT SHOWN 2/			1	1	1	2	2	2	3	2	2	1	1	1	

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

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1/ REPORTS ANNUAL TOTAL.

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

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

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CALENDAR YEAR 1988



The following tabulations for calendar year 1988 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 CITY ORDERING SAME

QUANTITY OF SUCH WATER DELIVERED TO MEXICO IN SATISFACTION OF MEXICAN TREATY OR DIVERTED BY OTHERS  
CALENDAR YEAR 1988  
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	5082	4883	254	9582	0	0	4494	29468	9061	1806	3207	0	67837
	DIVERTED BY OTHERS DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	5082	4883	254	9582	0	0	4494	29468	9061	1806	3207	0	67837
COLO. RIVER INDIAN RESERVATION DIVERSION AT HEADGATE ROCK	ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	982	831	2218	3336	1886	3511	1349	1984	4052	1680	1228	1736	24793
	DIVERTED BY OTHERS	0	8	599	1424	1248	2158	1035	244	1837	603	553	484	10193
	DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	982	811	1619	1743	638	1353	314	1355	2215	1077	675	1252	14034
		0	12	0	169	0	0	0	385	0	0	0	0	566
YUMA PROVING GROUND U.S. ARMY DIVERSION AT IMPERIAL DAM 1/	ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY													
	DIVERTED BY OTHERS DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY													
NORTH GILA VALLEY I.D. DIVERSION AT IMPERIAL DAM	ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	442	603	734	1069	676	2194	2233	1587	829	920	918	1379	13584
	DIVERTED BY OTHERS	36	262	305	214	224	587	885	196	67	38	73	147	3034
	DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	406	303	429	742	420	1607	1348	965	762	882	845	1232	9941
		0	38	0	113	32	0	0	426	0	0	0	0	609
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	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
		0	0	0	0	0	0	0	0	0	0	0	0	0

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

QUANTITY OF SUCH WATER DELIVERED TO MEXICO IN SATISFACTION OF MEXICAN TREATY OR DIVERTED BY OTHERS  
CALENDAR YEAR 1988  
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	7379	2700	2658	8208	8224	12837	12728	17494	10778	14755	6329	7210	111300
	DIVERTED BY OTHERS	1154	482	480	694	1815	2210	3293	1470	1970	1256	256	1823	16903
	DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	6225	1825	2178	5923	5979	10627	9435	7691	8808	13499	6073	5387	83650
		0	393	0	1591	430	0	0	8333	0	0	0	0	10747
YUMA IRRIGATION DISTRICT DIVERSION AT IMPERIAL DAM	ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	1567	954	1057	1150	532	873	506	1995	698	2158	1654	1684	14828
	DIVERTED BY OTHERS	280	335	379	165	234	292	278	121	107	127	180	192	2690
	DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	1287	558	678	824	278	581	228	1100	591	2031	1474	1492	11122
		0	61	0	161	20	0	0	774	0	0	0	0	1016
YUMA MESA I. & D. DISTRICT DIVERSION AT IMPERIAL DAM	ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	2138	2321	2358	5770	2053	662	704	7490	3824	5425	5028	7216	44989
	DIVERTED BY OTHERS	155	1063	793	595	641	99	20	149	904	292	303	446	5460
	DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	1983	1173	1565	4641	1410	563	684	3225	2920	5133	4725	6770	34792
		0	85	0	534	2	0	0	4116	0	0	0	0	4737
UNIT "B" I. & D. DISTRICT DIVERSION AT IMPERIAL DAM	ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	615	377	292	339	278	317	300	772	516	726	426	543	5501
	DIVERTED BY OTHERS	61	145	107	46	12	32	48	36	83	38	32	20	660
	DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	554	180	185	267	266	285	252	446	433	688	394	523	4473
		0	52	0	26	0	0	0	290	0	0	0	0	368
CITY OF YUMA DIVERSION AT IMPERIAL DAM	ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	0	0	0	141	0	6	90	416	396	247	140	123	1559
	DIVERTED BY OTHERS	0	0	0	37	0	3	59	92	153	43	68	23	478
	DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	0	0	0	82	0	3	31	177	243	204	72	100	912
		0	0	0	22	0	0	0	147	0	0	0	0	169

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

QUANTITY OF SUCH WATER DELIVERED TO MEXICO IN SATISFACTION OF MEXICAN TREATY OR DIVERTED BY OTHERS  
CALENDAR YEAR 1988  
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	2900	3186	3305	7210	4044	4820	3441	6248	1843	3092	7039	6994	54122
	DIVERTED BY OTHERS	1747	1855	2485	1912	2467	2277	2247	1386	714	540	3410	1339	22379
	DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	1153	302	820	4183	1208	2543	1194	2652	1129	2552	3629	5655	27020
		0	1029	0	1115	369	0	0	2210	0	0	0	0	4723
COCOPA INDIAN RESERVATION DIVERSION AT IMPERIAL DAM	ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	10	8	3	0	23	18	23	24	0	0	76	10	195
	DIVERTED BY OTHERS	6	5	2	0	14	8	15	5	0	0	37	2	94
	DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	4	1	1	0	7	10	8	10	0	0	39	8	88
		0	2	0	0	2	0	0	9	0	0	0	0	13
ARIZONA TOTALS	ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	21115	15863	12879	36805	17716	25238	25868	67478	31997	30809	26045	26895	338708
	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
		3439	4155	5150	5087	6655	7666	7880	3699	5835	2937	4912	4476	61891
	17676	10036	7729	27987	10206	17572	17988	47089	26162	27872	21133	22419	253869	
	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	1672	0	3731	855	0	0	16690	0	0	0	0	22948	

1/ NO ORDER RECEIVED.  
2/ AVAILABLE FOR FUTURE USE.

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

QUANTITY OF SUCH WATER DELIVERED TO MEXICO IN SATISFACTION OF MEXICAN TREATY OR DIVERTED BY OTHERS  
CALENDAR YEAR 1988  
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	4285	3552	5146	2214	122	475	0	87	0	58	0	151	16090
	DIVERTED BY OTHERS DELIVERED TO STORAGE 1/ DELIVERED TO MEXICO IN EXCESS OF TREATY	4285	3552	5146	2214	122	475	0	87	0	58	0	151	16090
PALO VERDE IRRIGATION DISTRICT DIVERSION AT PALO VERDE DAM	ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	2465	4901	1607	2787	4205	5921	1468	6540	3178	2224	2507	4122	41925
	DIVERTED BY OTHERS	409	647	421	901	2101	3191	702	948	1406	369	1022	1319	13436
	DELIVERED TO STORAGE 1/ DELIVERED TO MEXICO IN EXCESS OF TREATY	2056	3806	1186	1335	1747	2730	766	2127	1772	1855	1485	2803	23668
YUMA PROJECT RESV. DIVISION BARD UNIT DIVERSION AT IMPERIAL DAM	ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	3072	1795	1103	1954	2124	1664	2553	2930	841	1127	2906	1942	24011
	DIVERTED BY OTHERS	2041	1100	928	504	1158	992	1773	345	258	409	1462	668	11638
	DELIVERED TO STORAGE 1/ DELIVERED TO MEXICO IN EXCESS OF TREATY	1031	440	175	1212	851	672	780	385	583	718	1444	1274	9565
IMPERIAL IRRIGATION DISTRICT DIVERSION AT IMPERIAL DAM	ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	1331	9225	789	7006	4465	2271	496	12371	260	1529	694	4358	44795
	DIVERTED BY OTHERS	52	36	177	551	547	502	196	819	26	300	260	482	3948
	DELIVERED TO STORAGE 1/ DELIVERED TO MEXICO IN EXCESS OF TREATY	1279	1237	612	2853	3918	1769	300	926	234	1229	434	3876	18667
COACHELLA WATER USERS ASSN. DIVERSION AT IMPERIAL DAM	ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	1454	1488	361	2834	783	950	353	1775	268	482	561	750	12059
	DIVERTED BY OTHERS	1031	177	309	1010	361	494	266	232	32	186	262	200	4560
	DELIVERED TO STORAGE 1/ DELIVERED TO MEXICO IN EXCESS OF TREATY	423	641	52	1187	422	456	87	14	236	296	299	550	4663
		0	670	0	637	0	0	0	1529	0	0	0	0	2836

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

QUANTITY OF SUCH WATER DELIVERED TO MEXICO IN SATISFACTION OF MEXICAN TREATY OR DIVERTED BY OTHERS  
 CALENDAR YEAR 1988  
 STATE OF CALIFORNIA

(ACRE-FEET)

WATER USER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
CALIFORNIA TOTALS													
ORDERED BUT NOT DIVERTED	12607	20961	9006	16795	11699	11281	4870	23703	4547	5420	6668	11323	138880
DELIVERED TO MEXICO IN	0	0	0	0	0	0	0	0	0	0	0	0	0
SATISFACTION OF TREATY	0	0	0	0	0	0	0	0	0	0	0	0	0
DIVERTED BY OTHERS	3533	1960	1835	2966	4167	5179	2937	2344	1722	1264	3006	2669	33582
DELIVERED TO STORAGE 1/	9074	9676	7171	8801	7060	6102	1933	3539	2825	4156	3662	8654	72653
DELIVERED TO MEXICO IN	0	0	0	0	0	0	0	0	0	0	0	0	0
EXCESS OF TREATY	0	9325	0	5028	472	0	0	17820	0	0	0	0	32645

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

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CALENDAR YEAR 1988

DELIVERIES TO MEXICO IN SATISFACTION OF PART III OF 1944 TREATY  
AND  
WATER PASSING TO MEXICO IN EXCESS OF TREATY REQUIREMENTS  
CALENDAR YEAR 1988

(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/	58417	113256	224852	218618	124798	158616	218206	215150	89308	73852	87007	117920	1700000
PASSING TO MEXICO IN EXCESS OF TREATY REQUIREMENTS 2/	360924	134418	19101	21598	13917	11486	9394	68410	35191	36189	22656	25603	758887

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

2/ INCLUDES 128,176 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

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CALENDAR YEAR 1988

DIVERIONS OF WATER FROM MAINSTREAMS OF GILA AND SAN FRANCISCO RIVERS  
 AND  
 CONSUMPTIVE USE OF SUCH WATER FOR BENEFIT OF THE GILA NATIONAL FOREST  
 CALENDAR YEAR 1988

(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