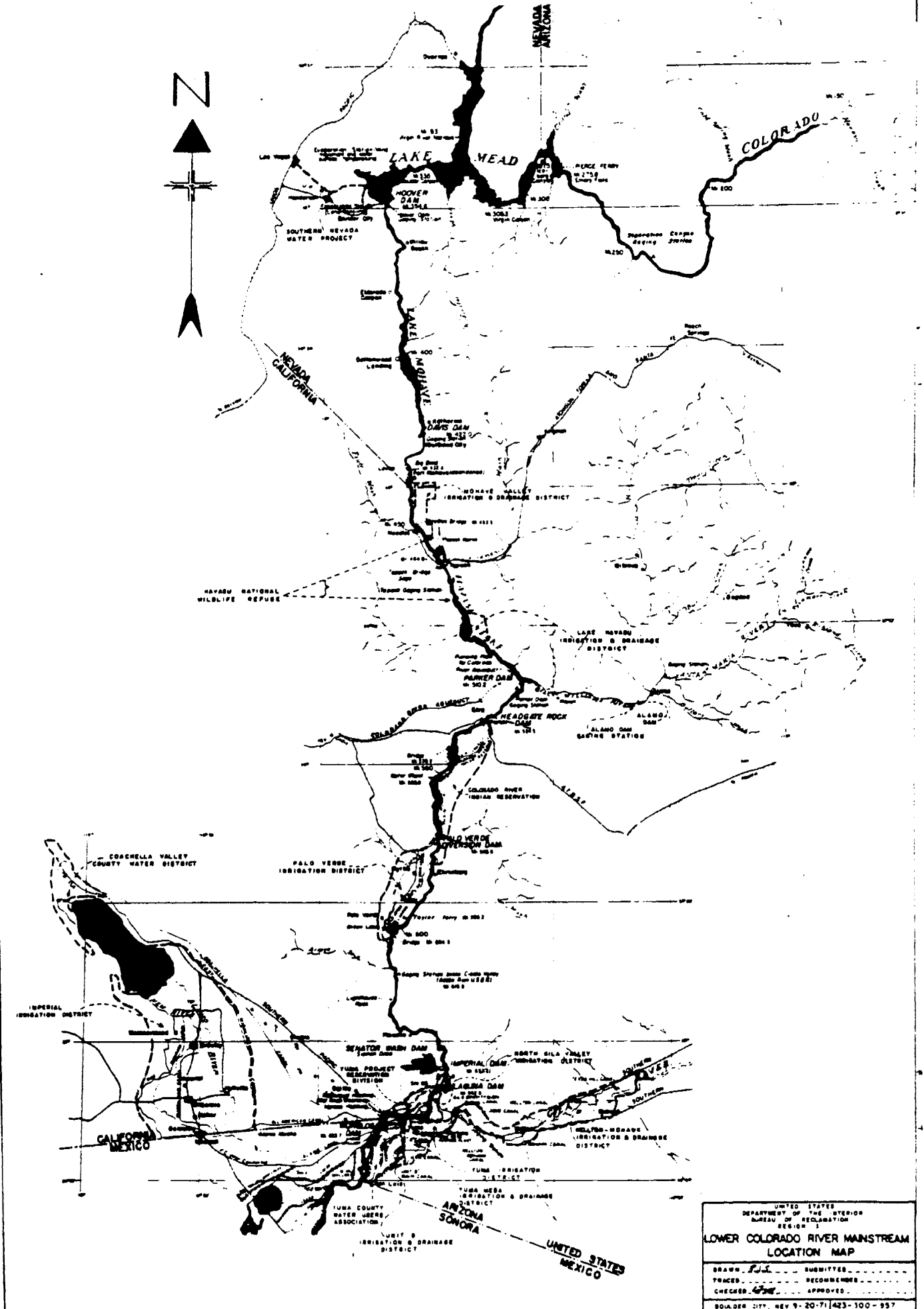


COMPILATION OF RECORDS IN
ACCORDANCE WITH ARTICLE V OF THE
DECREE OF THE SUPREME COURT OF
THE UNITED STATES IN
ARIZONA v. CALIFORNIA DATED MARCH 9, 1964

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



UNITED STATES
 DEPARTMENT OF THE INTERIOR
 BUREAU OF RECLAMATION
 SECTION 1
**LOWER COLORADO RIVER MAINSTREAM
 LOCATION MAP**

DRAWN *P.S.L.* SUBMITTED _____
 FORCED _____ RECOMMENDED _____
 CHECKED *APM* APPROVED _____
 BOULDER CITY, NEV. 9-20-71 423-100-957

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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 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 "Diversion for Colorado River Indian Reservation Main Canal near Parker, Arizona." The diversions are made at Headgate Rock Dam.

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

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 "kilowatt-hour 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 MAINSTREAM-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	12	12	19	11	26	34	41	35	30	28	19	16	283
	12	12	19	11	26	34	41	35	30	28	19	16	283
DIVERSION RETURNS													
CONSUMPTIVE USE													
L.C.R.D. PROJECT (DAVIS DAM) DIVERSION AT DAVIS DAM	4	4	6	5	9	11	14	18	13	17	12	9	122
	4	4	6	5	9	11	14	18	13	17	12	9	122
DIVERSION RETURNS													
CONSUMPTIVE USE													
MOHAVE COUNTY PARKS DIVERSION AT DAVIS DAM	2	3	1	4	12	13	14	8	7	4	2	1	71
	2	3	1	4	12	13	14	8	7	4	2	1	71
DIVERSION RETURNS													
CONSUMPTIVE USE													
BULLHEAD CITY PUMPED FROM WELLS	396	396	396	396	396	396	396	396	396	396	396	396	4752
	396	396	396	396	396	396	396	396	396	396	396	396	4752
DIVERSION RETURNS													
CONSUMPTIVE USE													
MOHAVE WATER CONSERVATION PUMPED FROM WELLS													310
													310
DIVERSION 2/ RETURNS													
CONSUMPTIVE USE													
CONSOLIDATED WATER UTILITIES PUMPED FROM RIVER	20	20	24	24	31	33	39	34	31	28	23	20	327
	20	20	24	24	31	33	39	34	31	28	23	20	327
DIVERSION RETURNS													
CONSUMPTIVE USE													
MOHAVE VALLEY I. & D. DISTRICT PUMPED FROM WELLS	531	1145	2116	2153	2897	3964	4125	3845	3399	2057	1246	1384	28862
	531	1145	2116	2153	2897	3964	4125	3845	3399	2057	1246	1384	28862
DIVERSION RETURNS													
CONSUMPTIVE USE													

DIVERIONS FROM MAINSTREAM-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/
DIVERISION 3/ RETURNS													
CONSUMPTIVE USE													
FORT MOHAVE INDIAN RESERVATION 10 PUMPS AND WELLS IN FLOOD PLAIN													62204
HAVASU NATIONAL WILDLIFE REFUGE INLET-NW NE NW SEC 33 T9N R55W G&SRM 1 WELL SEC15 T8N R23E SEC15	3729	0	3342	4939	3162	5849	6022	4425	3560	1961	1228	899	39116
	2	8	15	12	17	20	21	17	13	9	7	6	147
	3731	8	3357	4951	3179	5869	6043	4442	3573	1970	1235	905	39263
DIVERISION 3/ RETURNS													
CONSUMPTIVE USE													
LAKE HAVASU IRRIGATION AND DRAINAGE DISTRICT PUMPED FROM WELLS	607	627	806	781	1078	1123	1369	1283	1149	1173	909	759	11664
	607	627	806	781	1078	1123	1369	1283	1149	1173	909	759	11664
DIVERISION 3/ RETURNS													
CONSUMPTIVE USE													
CENTRAL ARIZONA PROJECT PUMPED FROM LAKE HAVASU	9505	15644	41558	34664	49828	79428	108472	79301	36441	13942	15714	14828	499325
	9505	15644	41558	34664	49828	79428	108472	79301	36441	13942	15714	14828	499325
DIVERISION 3/ RETURNS													
CONSUMPTIVE USE													
TOWN OF PARKER 1 WELL-NW NW NW SEC 7 T9N R19W G&SRM	55	58	78	72	108	703	141	116	96	97	62	49	1635
	55	58	78	72	108	703	141	116	96	97	62	49	1635
DIVERISION 3/ RETURNS													
CONSUMPTIVE USE													
COLORADO RIVER INDIAN RESERVATION DIVERISION AT HEADGATE ROCK DAM 6 PUMPS	10431	35622	61782	51686	73440	82593	88028	72541	56246	38400	28156	26180	625105
	40	44	74	85	114	138	146	145	125	120	89	67	1187
	13730	16093	21150	22124	23640	21383	24764	29313	23497	23636	18889	17993	256212
	-3259	19573	40706	29647	49914	61348	63410	43373	32874	14894	9356	8254	370080
DIVERISION 3/ RETURNS													
CONSUMPTIVE USE													
EHRENBERG IMPROVEMENT ASSN. 1 PUMP SW SEC 3 T3N R22W G&SRM	11	11	15	16	23	27	28	21	22	20	18	17	229
	11	11	15	16	23	27	28	21	22	20	18	17	229
DIVERISION 3/ RETURNS													
CONSUMPTIVE USE													

DIVERSIONS FROM MAINSTREAM-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 G6SRM	383	249	3052	1570	2374	4185	4832	2834	2349	1223	625	660	24336
DIVERSION RETURNS													
CONSUMPTIVE USE	383	249	3052	1570	2374	4185	4832	2834	2349	1223	625	660	24336
CIBOLA NATIONAL WILDLIFE REFUGE													
3 PUMPS	175	198	408	776	634	1091	847	724	678	1747	1963	869	10110
DIVERSION 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 G6SRM													24
DIVERSION 2/ RETURNS													24
CONSUMPTIVE USE													
YUMA PROVING GROUND													
DIVERSION AT IMPERIAL DAM	1	0	0	1	2	1	2	3	2	2	0	4	18
DIVERSION RETURNS													
CONSUMPTIVE USE	1	0	0	1	2	1	2	3	2	2	0	4	18
WARREN ACT CONTRACTORS													
DIVERSION AT IMPERIAL DAM	116	432	483	350	453	625	584	576	655	393	451	400	5518
DIVERSION 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	14287	33612	40941	40415	49771	51678	53739	44985	48924	27448	23263	21657	450720
DIVERSION 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	1264	1319	1539	1487	1918	2153	2277	2062	2015	1753	1499	1452	20738
DIVERSION 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

DIVERIONS FROM MAINSTREAM-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	50	61	176	180	261	225	321	305	267	165	101	6	2118
	DIVERSION RETURNS												
	CONSUMPTIVE USE												
SOUTHERN PACIFIC COMPANY DIVERSION AT IMPERIAL DAM	4	4	4	4	4	4	4	4	4	4	4	4	48
	DIVERSION RETURNS												
	CONSUMPTIVE USE												
COUNTY OF YUMA DIVERSION AT IMPERIAL DAM	1	1	1	1	1	1	1	1	1	1	1	1	12
	DIVERSION RETURNS												
	CONSUMPTIVE USE												
YUMA MESA FRUIT GROWERS ASSN. DIVERSION AT IMPERIAL DAM	1	1	1	1	1	1	1	1	1	1	1	1	12
	DIVERSION RETURNS												
	CONSUMPTIVE USE												
UNIVERSITY OF ARIZONA DIVERSION AT IMPERIAL DAM	38	58	76	50	102	113	118	146	69	113	42	59	984
	DIVERSION RETURNS												
	CONSUMPTIVE USE												
YUMA UNION HIGH SCHOOL DIVERSION AT IMPERIAL DAM	7	2	17	10	24	22	22	24	21	11	4	3	167
	DIVERSION RETURNS												
	CONSUMPTIVE USE												
CAMILLE, ALEC. JR. DIVERSION AT IMPERIAL DAM	1	0	3	2	1	3	5	3	4	3	0	2	27
	DIVERSION RETURNS												
	CONSUMPTIVE USE												

DIVERSTIONS FROM MAINSTREAM-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	0	0	7	7	11	15	22	15	10	9	4	5	105
CONSUMPTIVE USE	0	0	7	7	11	15	22	15	10	9	4	5	105
NORTH GILA VALLEY IRRIGATION DISTRICT DIVERSION AT IMPERIAL DAM	3101	3364	4514	5063	6259	5898	4315	2982	4557	4855	3279	3443	51630
	2164	2501	2523	2373	3178	3241	2615	2061	2946	3362	2482	2509	31955
CONSUMPTIVE USE	937	863	1991	2690	3081	2657	1700	921	1611	1493	797	934	19675
YUMA IRRIGATION DISTRICT DIVERSION AT IMPERIAL DAM PUMPED FROM PRIVATE WELLS	2986	3996	5465	5627	6630	5093	5068	4507	6878	5123	4548	3646	59567
	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	9151	11584	16347	17486	25347	29258	32038	28894	23399	15367	14333	14842	238046
	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	1560	1953	2687	2543	3613	4042	3923	4069	3207	2837	2293	2463	35190
	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	14503	18964	25069	24987	32081	28316	31496	28601	30690	37919	23117	18337	314080
	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
COCOPAH INDIAN RESERVATION DIVERSION AT IMPERIAL DAM PUMPED FROM WELLS	59	53	26	0	227	128	267	136	5	0	264	27	1192
	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

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

(ACRE-FEET)

FINAL RECORDS

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

NOTE: THE TERM 'CONSUMPTIVE USE' IN THIS TABULATION MEANS MEASURED DIVERIONS 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 FROM COLORADO 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/	51	2	164	175	131	211	243	319	220	120	46	148	210
L Pratt	SEC14 T7S R22W BCD 2/	55	0	278	71	170	297	332	347	316	86	0	127	210
A Dulin	SEC08 T08S R22E DAC	83	127	123	197	205	133	279	241	271	68	77	117	1830
A Dulin	SEC07 T08S R22W CCD	212	301	273	393	387	556	333	367	511	279	388	331	2079
Pete Auza	SEC18 T08S R22W CBD													1920
Pete Auza	SEC24 T08S R22W BDD													4331
Pete Auza	SEC18 T08S R22W DDD 2/													1590
R. Yowelman	SEC17 T08S R22W CCB 2/	20	25	2	53	93	106	92	32	24	2	12	59	720
Cameron Bros.	SEC24 T08S R22W CCB	0	31	9	33	42	50	65	37	35	34	16	14	518
Judd T. Ott	SEC30 T08S R22W BAB	112	111	63	68	75	93	135	112	95	69	55	87	364
Judd T. Ott	SEC19 T08S R22W CCD	13	4	24	61	71	96	72	28	10	19	21	67	1074
Cameron Bros	SEC24 T08S R22W CAD	28	26	47	17	95	120	124	144	27	108	84	110	484
Harp (R. Harp)	SEC13 T08S R23W AAD 2/	0	0	42	18	32	46	41	0	50	46	20	17	1458
Ott	SEC24 T08S R23W DCC	8	11	13	18	21	16	17	15	10	17	7	2	927
Peach	SEC22 T08S R23W DCC	3	8	12	2	0	26	16	12	19	34	12	13	157
AZ Prod	SEC23 T08S R23W CDA	13	18	6	58	0	35	30	38	0	0	195	13	405
Yucca Pwr Plant	SEC36 T16S R21E CBA 4/	0	0	0	0	0	0	0	0	0	0	0	0	2850
Dwane Slade	SEC28 T16S R22E CDA	92	123	121	191	177	167	161	41	78	133	41	57	480
Curtis Jennings	SEC29 T16S R22E DAC	14	121	134	140	29	41	97	98	88	9	59	39	353
R.E. Power P. Power	SEC30 T16S R22E ACC 2/	30	16	79	101	104	141	187	94	41	28	3	15	1382
Ansil Hall	SEC36 T16S R21E CCB 2/	35	41	42	51	57	33	109	57	9	42	29	41	869
West Cocopa RV	SEC25 T16S R21E	74	60	175	159	178	224	235	149	78	95	113	30	838
Sturges	C-08-22 14CDD	32	22	51	53	35	86	127	54	76	56	16	31	546
Sturges	C-08-22 18ADD	46	192	215	218	63	79	131	82	137	51	102	104	1570
Sturges	C-08-22 13B8B	48	60	66	104	100	88	80	22	25	47	26	27	637
Sturges	C-08-22 13DAD	8	0	4	0	0	9	48	23	15	2	1	21	1421
Sturges	C-08-22 04DAA	0	0	0	0	74	75	86	19	50	64	40	48	694
Sturges	C-08-21 18CDB	313	525	1148	953	982	1142	1361	1336	1047	697	552	638	131
Sturges	C-08-21 18BAC													455
Sturges	C-08-22 14CAA													20
Sturges	C-08-21 18BCD													
Sturges	C-08-22 15B8B													
Arizona Western College	C-08-22 35C 4/													
BLM PERMITTEES	4/													104
MONTHLY DISTRIBUTION NOT SHOWN FOR USERS	3/													

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/
		1486	2492	5444	4520	4657	5380	6418	6337	4967	3308	2617	3025	50651

*** Total Arizona Supplemental ***

- 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/ REPORT'S ANNUAL TOTAL

DIVERIONS FROM MAINSTREAM-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	109	126	242	206	320	401	472	398	327	275	188	139	22344
CONSUMPTIVE USE	32	29	36	36	46	49	55	41	49	48	36	33	490
	77	97	206	170	274	352	417	357	278	227	152	106	2713
CITY OF NEEDLES													
DIVERSION	103115	88448	103354	99686	99078	101025	104548	105713	99333	102042	100180	102449	1203571
RETURNS 2/	323	292	323	303	270	259	234	237	252	287	300	310	3390
CONSUMPTIVE USE	102792	88156	103031	99383	98808	100766	104314	105476	93681	101755	99880	102139	1200181
METROPOLITAN WATER DISTRICT													
DIVERSION FROM LAKE HAVASU													
PARKER DAM AND GOVERNMENT CAMP													
DIVERSION AT PARKER DAM	7	10	14	18	28	34	37	33	32	33	16	11	273
RETURNS													
CONSUMPTIVE USE	7	10	14	18	28	34	37	33	32	33	16	11	273
COLORADO RIVER INDIAN RESERVATION													
PUMPED FROM 11 PUMPS AND WELLS	48	29	91	184	154	283	411	479	237	285	119	130	2450
4 PUMPS BIG RIVER	83	90	129	129	171	186	218	197	181	165	116	90	1755
RETURNS													
CONSUMPTIVE USE	131	119	220	313	325	469	629	676	418	450	235	220	4205
CITY OF WINTERHAVEN													
1 WELL SE SE NE SEC 27 T16S R22E SBM													
RETURNS													127
CONSUMPTIVE USE													127
PALO VERDE IRRIGATION DISTRICT													
DIVERSION FROM PALO VERDE DAM	29245	53630	87512	71424	98064	110302	128451	99502	69795	51962	47299	51464	898650
RETURNS	28250	29462	34515	36396	37629	41467	44725	48590	42487	40352	35239	35717	454829
CONSUMPTIVE USE	995	24168	52997	35028	60435	68835	83726	50912	27308	11610	12060	15747	443821

DIVERIONS FROM MAINSTREAM-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	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	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	2201	2011	2414	2126	2631	2417	2291	2638	2235	2845	2643	2222	28674
IMPERIAL IRRIGATION DISTRICT DIVERSION AT IMPERIAL DAM	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	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	331	690	1454	900	1693	2489	2492	2080	2038	1519	1951	1502	19139
CALIFORNIA TOTALS	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 COLORADO 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/													30
Barrett (R. Harp)	SEC06 T08S R22W BCD 2/													900
Ralph Land	SEC35 T15S R23E DDC					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														104
Dorothy Andrade														2
Wetmore, Kenneth C.														5
Williams, Jerry														1
Brown, Jack D.														2
Larry Kennedy														774
Russell Bros.														816
Southern Cal Gas														59
Alex Dees	T11N R22E SEC31 BAD													2158
E. Evans (R. Harp)	T11N R22E SEC36 DAC	49	60	115	193	236	259	387	294	269	191	45	60	460
P. Harp (R. Harp)	T09E R23E SEC29 DDD	2	39	9	0	24	45	6	20	39	113	110	53	882
K. Easterday	SEC01 T8S R23W	0	0	2	36	103	134	102	117	126	142	0	0	762
F. Smith (P. Power)	SEC12 T8S R23W	36	53	119	81	122	128	234	160	78	59	68	100	1238
BLM PERMITTEES														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

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.

DIVERSIONS 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/
BOULDER CANYON PROJECT													
DIVERSION AT HOOVER DAM	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
BOULDER CITY													
DIVERSION AT HOOVER DAM	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
ROBERT B. GRIFFITH WATER PROJECT													
DIVERSION AT SADDLE ISLAND, LAKE MEAD	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
LAKE MEAD NATIONAL RECREATION AREA													
DIVERSION AT LAKE MEAD	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
BASIC MANAGEMENT INC.													
DIVERSION AT SADDLE ISLAND, LAKE MEAD	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
NEVADA STATE DEPARTMENT OF FISH & GAME													
DIVERSION AT SADDLE ISLAND, LAKE MEAD	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
PACIFIC COAST BUILDING PRODUCTS INC.													
DIVERSION AT GYPSUM WASH, LAKE MEAD	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

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/
SOUTHERN CALIFORNIA EDISON PUMPED FROM SEC 24 T32S R66E MDB&M	1335	979	775	1180	1619	1697	1894	1757	1352	1680	732	985	15985
DIVERSION 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	123	124	155	156	189	228	251	232	238	231	192	179	2298
DIVERSION RETURNS													
CONSUMPTIVE USE	123	124	155	156	189	228	251	232	238	231	192	179	2298
LAS VEGAS WASH RETURN FLOWS	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	1	1	1	2	2	2	3	2	2	1	1	1	19
DIVERSION 3/													
NEVADA TOTALS	12469	12996	17199	18022	22127	23254	27991	25129	20988	21518	15994	14720	232407
DIVERSION 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 DIVERIONS 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	1	1	1	2	2	2	3	2	2	1	1	1	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/

*** Nevada Total Supplemental ***

19

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

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.

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

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

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

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	4285	3552	5146	2214	122	475	0	87	0	58	0	151	16090
ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY DIVERTED BY OTHERS	4285	3552	5146	2214	122	475	0	87	0	58	0	151	16090
DELIVERED TO STORAGE 1/ DELIVERED TO MEXICO IN EXCESS OF TREATY													
PALO VERDE IRRIGATION DISTRICT DIVERSION AT PALO VERDE DAM	2465	4901	1607	2787	4205	5921	1468	6540	3178	2224	2507	4122	41925
ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY DIVERTED BY OTHERS	2465	4901	1607	2787	4205	5921	1468	6540	3178	2224	2507	4122	41925
DELIVERED TO STORAGE 1/ DELIVERED TO MEXICO IN EXCESS OF TREATY	409	647	421	901	2101	3191	702	948	1406	369	1022	1319	13436
2056	3806	1186	1335	1747	2730	766	2127	1772	1855	1485	2803	23668	
0	448	0	551	357	0	0	0	3465	0	0	0	0	4821
YUMA PROJECT RESV. DIVISION BARD UNIT DIVERSION AT IMPERIAL DAM	3072	1795	1103	1954	2124	1664	2553	2930	841	1127	2906	1942	24011
ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY DIVERTED BY OTHERS	3072	1795	1103	1954	2124	1664	2553	2930	841	1127	2906	1942	24011
DELIVERED TO STORAGE 1/ DELIVERED TO MEXICO IN EXCESS OF TREATY	2041	1100	928	504	1158	992	1773	345	258	409	1462	668	11638
1031	440	175	1212	851	672	780	385	583	718	1444	1274	9565	
0	255	0	238	115	0	0	0	2200	0	0	0	0	2808
IMPERIAL IRRIGATION DISTRICT DIVERSION AT IMPERIAL DAM	1331	9225	789	7006	4465	2271	496	12371	260	1529	694	4358	44795
ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY DIVERTED BY OTHERS	1331	9225	789	7006	4465	2271	496	12371	260	1529	694	4358	44795
DELIVERED TO STORAGE 1/ DELIVERED TO MEXICO IN EXCESS OF TREATY	52	36	177	551	547	502	196	819	26	300	260	482	3948
1279	1237	612	2853	3918	1769	300	926	234	1229	434	3876	18667	
0	7952	0	3602	0	0	0	0	10626	0	0	0	0	22180
COACHELLA WATER USERS ASSN. DIVERSION AT IMPERIAL DAM	1454	1488	361	2834	783	950	353	1775	268	482	561	750	12059
ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY DIVERTED BY OTHERS	1454	1488	361	2834	783	950	353	1775	268	482	561	750	12059
DELIVERED TO STORAGE 1/ DELIVERED TO MEXICO IN EXCESS OF TREATY	1031	177	309	1010	361	494	266	232	32	186	262	200	4560
423	641	52	1187	422	456	87	14	236	296	299	550	4663	
0	670	0	637	0	0	0	0	1529	0	0	0	0	2836

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 1988
STATE OF CALIFORNIA

(ACRE-FEET)

WATER USER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
CALIFORNIA TOTALS	12607	20961	9006	16795	11699	11281	4870	23703	4547	5420	6668	11323	138880
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	3533	1960	1835	2966	4167	5179	2937	2344	1722	1264	3006	2669	33582
DELIVERED TO STORAGE 1/ DELIVERED TO MEXICO IN EXCESS OF TREATY	9074	9676	7171	8801	7060	6102	1933	3539	2825	4156	3662	8654	77653
	0	0	0	0	0	0	0	0	0	0	0	0	0
	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

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

WATER USER	(ACRE-FEET)												
	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

CALENDAR YEAR 1988

DIVERIONS OF WATER FROM MAINSTREAM 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