

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
Clark, Secretary

BUREAU OF RECLAMATION  
Commissioner

LOWER COLORADO REGION  
N. W. Plummer, Regional Director

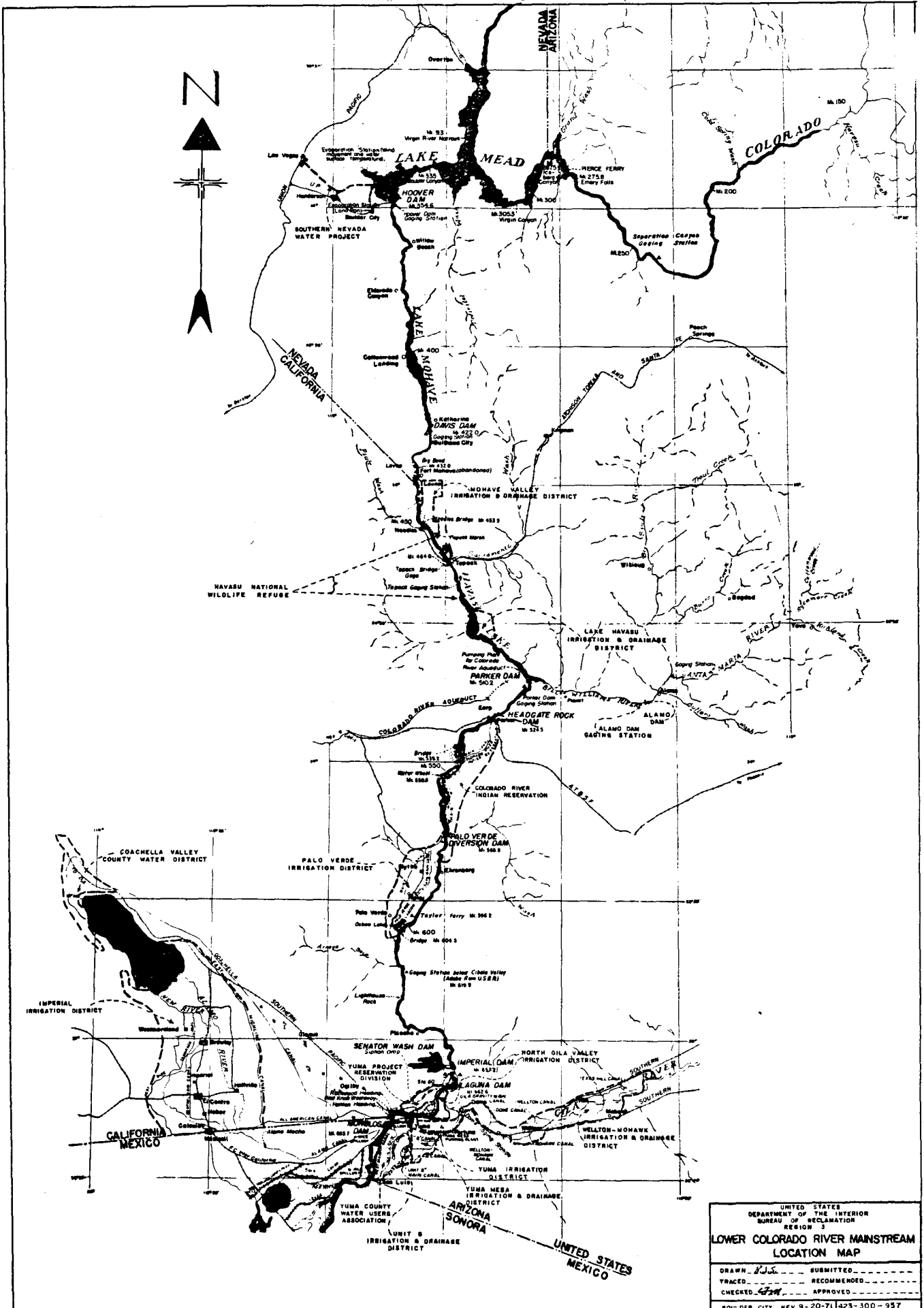
COMPILATION OF RECORDS IN  
ACCORDANCE WITH ARTICLE V OF THE  
DECREE OF THE SUPREME COURT OF  
THE UNITED STATES IN  
ARIZONA v. CALIFORNIA DATED MARCH 9, 1964  
CALENDAR YEAR 1982

Division of Water and Land Operations  
Boulder City, Nevada

March 1984

CONTENTS

	<u>Page</u>
Location Map (Drawing No. 423-300-957) .....	Frontispiece
V(A) Records of Releases of Water Through Regulatory Structures .....	1
Controlled by the United States .....	3
V(B) Records of Mainstream Diversions, Return Flows, and Consumptive Use .....	4
Arizona .....	6
Other Arizona Users .....	11
California .....	15
Other California Users .....	18
Revision 1981-California .....	22
Nevada .....	24
V(C) Water Ordered but not Diverted .....	27
Arizona .....	29
California .....	32
V(D) Records of Deliveries of Water to Mexico .....	34
V(E) Diversions and Use for Gila National Forest .....	36



UNITED STATES  
 DEPARTMENT OF THE INTERIOR  
 BUREAU OF RECLAMATION  
 REGION 3

**LOWER COLORADO RIVER MAINSTREAM  
 LOCATION MAP**

DRAWN *B.S.* SUBMITTED  
 TRACED RECOMMENDED  
 CHECKED *W.A.* APPROVED

BOULDER CITY, NEV. 9-20-71 423-300-957

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 1982

The following tabulations for calendar year 1982 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 Geological Survey based on measurements at or below the structures.

The record of riverflow 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 near Parker, Arizona." The diversions are made at Headgate Rock Dam.

RELEASE OF WATER THROUGH REGULATORY STRUCTURES  
 CONTROLLED BY THE UNITED STATES  
 CALENDAR YEAR 1982

V (A)

STRUCTURE	(ACRE- FEET)												TOTALS
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
HOOVER DAM	462900	548600	792200	1042000	843300	635100	735400	764400	393900	392600	379400	463800	7453600
DAVIS DAM	382100	573700	760000	1025000	776100	761100	912200	729400	526500	416500	250000	296400	7409000
PARKER DAM	329700	491700	652800	850700	658400	617700	763200	638400	500700	380200	219300	263900	6366700
HEADGATE ROCK DAM 1/	320500	457900	601200	790800	595300	535100	640400	581900	444800	350000	201200	251300	5770400
PALO VERDE DAM 2/	284600	388200	532800	673700	496600	462400	573700	502100	357600	302000	185200	203700	4962600
IMPERIAL DAM 3/	20880	18750	47230	31340	34280	32020	28180	37710	32990	19400	17070	29660	349510
LAGUNA DAM	25060	20720	46130	31260	33600	31410	27290	40100	32620	18380	19220	33430	359220

1/ COLORADO RIVER BELOW PARKER DAM LESS DIVERSION AT HEADGATE ROCK DAM.  
 2/ MEASURED THROUGH THE GATES OF PALO VERDE DAM.  
 3/ 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 1982

The following tabulations for calendar year 1982 show final records for diversions of water from the mainstream of the Colorado River, return flow of such water to the mainstream and consumptive use of such water by water user agencies which have contracts with the United States. The records were furnished by the Geological Survey, the International Boundary and Water Commission, the Bureau of Indian Affairs, the Bureau of Reclamation, the National Park Service, the Fish and Wildlife Service, and water user agencies. Diversions to All-American Canal and Gila Gravity Main Canal at Imperial Dam were assigned to each user based on deliveries to each user at its turnout from the canal and a prorated amount of the conveyance loss from the canal. The loss prorations was based on the quantity delivered to each user and the length of the canal through which it was carried.

The tables also show estimates of water use by water users other than those which have contracts with the United States. Records of quantities of water pumped by permittees under the Lower Colorado River Land Use Program and by others are incomplete or not available. Consequently, estimates of pumpage from the mainstream, from both the river and the underground, are shown for each State. Pumping from the underground was considered from only those wells located in the flood plain of the Colorado River between the toes of the slopes on either side of the valley. Supplemental sheets are enclosed which show the estimates of water pumped by each diverter between Davis Dam and the International Boundary.

The estimate of diversion by pumping during 1982 was made by two basic methods: (1) For most electric pumps, diversion was computed on a monthly basis from power records and a "kWh per acre-foot factor" that was determined by discharge measurement; (2) For pumps other than electric, a factor of 6 acre-feet per irrigated acre per year was used. Irrigated acres were determined by field inventory during the year made with the aid of aerial photographs and orthophotomaps which were taken during May through August 1976.

There are undetermined amounts of unmeasured return flow reaching the Colorado River by means of underground flow from aquifers underlying water user areas. Also, the return flow to Lake Mead from Las Vegas Wash contains some ground-water originated return flow mixed with Colorado River return flow. A Task Force on Unmeasured Return Flows to the Lower Colorado River, consisting of State and Federal members, was organized during 1970 to provide advice and guidance to the Bureau of Reclamation and the Geological Survey which are jointly conducting a program to determine the location and amounts of such unmeasured return flows. Studies to determine unmeasured return flows are continuing, and when these quantities are determined in a mutually acceptable manner, such amounts are anticipated to be credited to the affected users and States in making the ultimate annual consumptive use computations. It is anticipated that tabulations for calendar year 1983 will include acceptable determinations of the appropriate Colorado River return flows accruing to Lake Mead from the Las Vegas Wash.



DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1982  
STATE OF ARIZONA

V (B)

FINAL RECORDS

(ACRE-FEET) SHEET 1 OF 4

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS 1/
LAKE MEAD NATIONAL RECREATION AREA DIVERSION FROM LAKE MOHAVE	DIVERSION RETURN CONSUMPTIVE USE	14	14	18	23	31	33	31	41	24	21	16	13	279
DAVIS DAM AND GOVERNMENT CAMP DIVERSION AT DAVIS DAM	DIVERSION RETURN CONSUMPTIVE USE	6	5	7	17	22	35	34	29	27	13	7	6	208
MOHAVE WATER CONSERVATION DISTRICT PUMPED FROM WELLS	DIVERSION RETURN CONSUMPTIVE USE	4	3	4	4	5	6	7	6	6	5	4	3	57
MOHAVE VALLEY I. & D. DISTRICT PUMPED FROM WELLS AND DIVERIED FROM INLET CHANNEL TO HAVASU REFUGE	DIVERSION RETURN CONSUMPTIVE USE	496	948	2533	3252	3899	4380	4206	4993	3093	1800	771	369	30740
FORT MOHAVE INDIAN RESERVATION 9 PUMPS AND WELLS IN FLOOD PLAIN	DIVERSION 11/ RETURN CONSUMPTIVE USE	732	1497	4424	5714	6869	7679	7294	8867	5250	2865	1080	394	52665
HAVASU NATIONAL WILDLIFE REFUGE PUMPED FROM WELL INLET-NW NE NW SEC 33 T9N R22W G&SRM	DIVERSION DIVERSION RETURN CONSUMPTIVE USE	1 1102 0 1103	1 3746 0 3747	1 4971 0 4972	1 3974 0 3975	2 2735 0 2737	2 6521 0 6523	2 7623 0 7625	2 3855 0 3857	1 2325 0 2326	2 1399 0 1401	2 234 0 236	1 620 0 621	18 39105 0 39123
LAKE HAVASU IRRIGATION AND DRAINAGE DISTRICT PUMPED FROM WELLS	DIVERSION RETURN CONSUMPTIVE USE	464	425	483	617	798	836	942	916	898	778	509	383	8049
GRAHAM WATER UTILITIES INC. PUMPED FROM RIVER	DIVERSION RETURN CONSUMPTIVE USE	8	7	8	10	12	13	15	14	12	10	8	7	124

DIVERSTIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1982  
STATE OF ARIZONA

V (B)

FINAL RECORDS

(ACRE-FEET) SHEET 2 OF 4

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS 1/
HOLIDAY HARBOR UTILITIES INC. PUMPED FROM RIVER	DIVERSION RETURN CONSUMPTIVE USE	1	1	1	2	3	3	4	3	3	2	2	1	26
TOWN OF PARKER 1 WELL NW NW NW SEC 7 T9N R19W G&SRM	DIVERSION RETURN CONSUMPTIVE USE	51	54	69	92	109	156	177	114	98	73	52	42	1087
COLORADO RIVER INDIAN RESERVATION DIVERSION AT HEADGATE ROCK DAM PUMPED FROM 2 WELLS IN PARKER SW NE SE SEC 2 T9N R21W G&SRM	DIVERSION DIVERSION	9164 0	33803 4	51638 8	59886 13	63073 16	82573 18	92788 15	56520 14	55931 15	30227 5	18076 0	12601 2	566280 110
4 WELLS IN POSTON NW SEC 36 T8N R21W G&SRM 3 PUMPS	DIVERSION	10	14	15	26	38	23	50	38	38	4	5	3	264
NE SW NW SEC 14 T4N R22W G&SRM	DIVERSION 2/ RETURN CONSUMPTIVE USE	930 12628 -2524	840 12953 21708	930 18384 34207	900 20447 40378	930 22560 41497	900 23673 59841	930 25953 67830	930 26777 30725	900 26075 30809	930 22807 8359	900 17685 1296	930 14613 -1077	10950 244555 333049
EHRENBURG IMPROVEMENT ASSN. 1 PUMP SW SEC 3 T3N R22W G&SRM	DIVERSION RETURN CONSUMPTIVE USE	6	7	8	10	12	15	14	13	10	11	7	6	119
CIBOLA NATIONAL WILDLIFE REFUGE 3 PUMPS	DIVERSION 10/ RETURN CONSUMPTIVE USE	604	570	800	877	737	1208	1191	934	514	294	416	105	8250
IMPERIAL NATIONAL WILDLIFE REFUGE 2 WELLS SEC 13 T5S R22W G&SRM	DIVERSION 10/ RETURN CONSUMPTIVE USE	8	9	10	17	15	16	15	16	12	11	10	5	144
YUMA PROVING GROUND DIVERSION AT IMPERIAL DAM	DIVERSION RETURN CONSUMPTIVE USE	0	1	0	0	2	0	0	0	5	8	0	0	16

DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1982  
STATE OF ARIZONA

V (B)

FINAL RECORDS

(ACRE-FEET) SHEET 3 OF 4

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS 1/
NORTH GILA VALLEY IRRIGATION DISTRICT														
DIVERSION AT IMPERIAL DAM	DIVERSION	2702	3748	3149	4904	5428	5368	4750	4568	3545	4100	3607	1771	47640
	RETURN	461	528	540	617	764	707	901	913	892	1225	974	715	9237
	CONSUMPTIVE USE	2241	3220	2609	4287	4664	4661	3849	3655	2653	2875	2633	1056	38403
WARREN ACT CONTRACTORS														
DIVERSION AT IMPERIAL DAM	DIVERSION	8	30	70	35	46	21	122	110	42	152	101	34	771
	RETURN													
	CONSUMPTIVE USE													
WELLTON-MOHAWK I. & D. DISTRICT														
DIVERSION AT IMPERIAL DAM	DIVERSION	15627	27293	30045	43362	44698	49028	54392	48059	38710	22550	15436	10773	399973
	RETURN 3/	12552	11415	12220	12302	13295	11832	11875	12335	12540	12895	13206	12589	149056
	CONSUMPTIVE USE	3075	15878	17825	31060	31403	37196	42517	35724	26170	9655	2230	-1816	250917
YUMA IRRIGATION DISTRICT														
DIVERSION AT IMPERIAL DAM	DIVERSION	2680	4943	3582	4940	6174	5383	6887	5735	5900	5479	4478	2099	58280
PUMPED FROM PRIVATE WELLS	DIVERSION	1031	770	782	1115	1261	1311	1470	1728	934	636	533	682	12253
	RETURN													
	CONSUMPTIVE USE													
YUMA MESA I. & D. DISTRICT														
DIVERSION AT IMPERIAL DAM	DIVERSION 5/	8503	11332	10642	18922	23770	24825	28707	24618	20782	15565	9680	7405	204751
	RETURN													
	CONSUMPTIVE USE													
UNIT "B" I. & D. DISTRICT														
DIVERSION AT IMPERIAL DAM	DIVERSION 6/	1314	1448	1891	2507	3443	3902	4043	3805	3022	2487	1741	1011	30614
	RETURN													
	CONSUMPTIVE USE													
RETURN FROM SOUTH GILA VALLEY	RETURN 4/	5971	4109	5471	6736	3701	4701	5227	5042	3152	2972	2560	3575	53217
CITY OF YUMA														
DIVERSION AT IMPERIAL DAM	DIVERSION	874	909	971	1236	1434	1581	1752	1513	1420	1294	1060	852	14896
	RETURN	566	517	649	543	503	504	510	529	587	595	584	586	6673
	CONSUMPTIVE USE	308	392	322	693	931	1077	1242	984	833	699	476	266	8223

DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1982  
STATE OF ARIZONA

V (B)

FINAL RECORDS

(ACRE-FEET) SHEET 4 OF 4

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS 1/
<hr/>														
YUMA COUNTY WATER USERS ASSOCIATION														
DIVERSION AT IMPERIAL DAM	DIVERSION 7/	17308	22446	21956	29547	23569	28611	36602	30435	25216	27014	12364	6144	281212
PUMPED FROM WELLS	DIVERSION	681	434	544	560	985	1113	1062	791	870	1026	850	897	9813
	RETURN	6679	6773	7496	7263	7225	6327	6787	7211	7134	8146	7265	6520	84826
	CONSUMPTIVE USE	11310	16107	15004	22844	17329	23397	30877	24015	18952	19894	5949	521	206199
COCOPAH INDIAN RESERVATION														
DIVERSION AT IMPERIAL DAM	DIVERSION	0	225	17	129	94	139	230	73	38	0	0	0	945
PUMPED FROM WELLS	DIVERSION	0	4	0	2	4	5	7	2	1	0	0	0	25
	RETURN													
	CONSUMPTIVE USE													
PROTECTIVE AND REGULATORY PUMPING UNIT	RETURN 8/	2761	2257	2132	2681	2481	1944	2324	1778	2201	1583	1011	413	23566
YUMA MESA OUTLET DRAIN	RETURN 8/	2634	2725	2630	2515	2146	1938	2200	1924	2420	2438	1985	1747	27302
OTHER USERS PUMPING FROM COLORADO RIVER AND WELLS IN FLOOD PLAIN DAVIS DAM TO INTERNATIONAL BOUNDARY	DIVERSION 9/	3282	3777	4815	6356	6331	8096	8001	7362	4189	3223	2634	1086	59152
ARIZONA TOTALS	DIVERSION	67611	119308	144392	189050	196545	233800	263363	206104	173831	121984	74583	48245	1838816
	RETURN	44252	41277	49522	53104	52675	51626	55777	56509	55001	52661	45270	40758	598432
	CONSUMPTIVE USE	23359	78031	94870	135946	143870	182174	207586	149595	118830	69323	29313	7487	1240384

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/ CALCULATED FROM MONTHLY POWER RECORDS.

3/ THIS FIGURE MAY INCLUDE SOME GILA RIVER WATER. NO EFFORT HAS BEEN MADE IN THIS OR PAST REPORTS TO SEGREGATE THE GILA RIVER COMPONENT FROM THE COLORADO RIVER COMPONENT IN THE WELTON-MOHAWK DRAINAGE AS NO METHODOLOGY HAS YET BEEN DEVELOPED THEREFOR. SUCH AN EFFORT WILL BE MADE IN FUTURE YEARS, AS DEEMED APPROPRIATE SINCE WELTON-MOHAWK IS NOT ENTITLED TO RETURN CREDIT FOR GILA RIVER WATER. THIS FIGURE INCLUDES 149,698 ACRE-FEET OF WELTON-MOHAWK DRAINAGE DELIVERED TO MEXICO IN EXCESS OF MINIMUM TREATY REQUIREMENTS PURSUANT TO PROVISIONS OF MINUTE NO. 242.

4/ PUMPED FROM UNDERGROUND AND UNASSIGNED TO DISTRICT AS RETURNS INCLUDE QUANTITIES OF DRAINAGE FROM YUMA MESA AS WELL AS FROM SOUTH GILA VALLEY.

5/ INCLUDES DELIVERIES TO THE FOLLOWING WATER USERS WHO HAVE CONTRACTS WITH THE UNITED STATES.

CONTRACTOR	POINT OF DELIVERY	ANNUAL DELIVERY (ACRE-FEET)
CITY OF YUMA	B3.7 LATERAL	4
DESERT LAWN MEMORIAL	B3.7 LATERAL	180
SOUTHERN PACIFIC COMPANY	B3.7 LATERAL	14
SOUTHERN PACIFIC COMPANY	AFTER BAY OF YUMA MESA PUMPING PLANT	46
YUMA MESA FRUIT GROWERS ASSOCIATION	B3.7 W. LATERAL	12
COUNTY OF YUMA, ARIZONA	B3.8 LATERAL	12
MARINE CORPS AIR STATION, DEPARTMENT OF THE NAVY	B CANAL AND B-5.5 W. LATERAL	2131
TOTAL		2399
6/ INCLUDES DELIVERIES TO THE FOLLOWING WATER USERS WHO HAVE CONTRACTS WITH THE UNITED STATES.		
UNIVERSITY OF ARIZONA	B MAIN CANAL	932
CAMILLE ALEC, JR.	B-8 LATERAL	66
7/ INCLUDES DELIVERIES TO THE FOLLOWING WATER USERS WHO HAVE CONTRACTS WITH THE UNITED STATES.		
YUMA UNION HIGH SCHOOL DISTRICT	YUMA MAIN CANAL	241
CITY OF YUMA - SMUCKER PARK	YUMA MAIN CANAL	469
8/ RETURNS MAY INCLUDE UNKNOWN QUANTITIES OF DRAINAGE RETURNS FROM YUMA MESA IRRIGATION AND DRAINAGE DISTRICT AS WELL AS FROM YUMA COUNTY WATER USERS ASSOCIATION AND COCOPAH INDIAN RESERVATION.		
9/ DETAILS ON ARIZONA SUPPLEMENTAL SHEETS 1-5		
10/ MONTHLY DISTRIBUTION NOT AVAILABLE, DISTRIBUTED ACCORDING TO MONTHLY DISTRIBUTION OF OTHER USERS IN IMMEDIATE AREA.		
11/ COMPUTED USING 6 ACRE-FEET PER IRRIGATED ACRE WITH ACREAGE FURNISHED BY THE U. S. G. S. AND DISTRIBUTED ACCORDING TO MONTHLY DISTRIBUTION OF OTHER USERS IN THE IMMEDIATE AREA.		

DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1982  
STATE OF ARIZONA

V (B)

SUPPLEMENTAL SHEETS

(ACRE-FEET) SHEET 1 OF 4

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS 1/
CLAYTON, RALPH 2 PUMPS SW SE SW SEC 34 T4N R22W G&SRM	DIVERSION	94	226	425	369	399	581	620	553	765	649	126	109	4916 2/
1 WELL SW SW SW SEC 34 T4N R22W G&SRM	DIVERSION	0	0	0	0	0	65	45	143	27	0	0	0	280 2/
ARAKELIAN FARMS 1 PUMP SE NW SE SEC 16 T3N R22W G&SRM	DIVERSION													2640
CIBOLA VALLEY IRRIGATION DISTRICT 4 PUMPS SEC'S 20 & 21 T1N R23H G&SRM	DIVERSION	1549	1463	2053	2250	1892	3099	3055	2398	1320	755	1067	268	21169 2/
BLM PERMITTEES	DIVERSION													86
SUBTOTALS-DAVIS DAM TO IMPERIAL DAM	DIVERSION 3/ DIVERSION 4/	1643 169	1689 174	2478 256	2619 270	2291 236	3745 387	3720 384	3094 319	2112 225	1404 145	1193 123	377 38	26365 2726
PRATT, LOREN 1 WELL SW NW NE SEC 14 T7S R22W G&SRM	DIVERSION													228
1 PUMP SE SW NW SEC 14 T7S R22W G&SRM	DIVERSION													222
DULIN, ARLIN 1 WELL SE SW SW SEC 8 T8S R22W G&SRM	DIVERSION	0	130	193	202	352	258	12	4	6	25	189	5	1376 2/
1 WELL SE SW SW SEC 7 T8S R22W G&SRM	DIVERSION	0	105	0	104	28	83	111	172	123	66	0	0	792 2/

DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1982  
STATE OF ARIZONA

V (B)

SUPPLEMENTAL SHEETS

(ACRE-FEET) SHEET 2 OF 4

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS	1/
STURGES, STEVE 8 WELLS SEC 18 T8S R 21W & SEC. 'S 13 & 14 T8S R22W G&SRM	DIVERSION	703	742	831	1535	1458	1688	1744	1735	588	651	487	309	12471	2/
YOWELMAN, R. 1 WELL NW SW SW SEC 17 T8S R22W G&SRM	DIVERSION													720	
AUZA, PETE 1 WELL SE NW SW SEC 18 T8S R22W G&SRM	DIVERSION	0	0	0	0	139	55	9	43	6	0	0	0	252	2/
1 PUMP SE SE NE SEC 24 T8S R23W G&SRM	DIVERSION													1590	
1 WELL SE SE SE SEC 18 T8S R22W G&SRM	DIVERSION													1590	
OTT, JUDD T. 1 WELL NW NE NW SEC 30 T8S R22W G&SRM	DIVERSION	57	30	32	60	82	102	110	90	71	58	45	20	757	2/
1 WELL SE SW SW SEC 19 T8S R22W G&SRM	DIVERSION	29	28	28	40	50	62	80	94	57	38	53	65	624	2/
CAMERON BROS. 2 WELLS SE NE SW SEC 24 T8S R22W G&SRM	DIVERSION	98	124	122	158	196	207	188	256	185	96	3	9	1642	2/
HARP, R. 1 WELL SE NE NE SEC 13 T8S R23W G&SRM	DIVERSION													1458	
VUKASOVICH 1 WELL SE NE SW SEC 24 T8S R22W G&SRM	DIVERSION	0	0	0	1	0	0	1	0	0	0	0	0	2	2/
1 WELL SW SW SE SEC 24 T8S R22W G&SRM	DIVERSION	44	56	32	113	47	0	61	0	37	66	53	15	524	2/

DIVERIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1982  
STATE OF ARIZONA

V (B)

SUPPLEMENTAL SHEETS

(ACRE-FEET) SHEET 3 OF 4

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS 1/
SUNKIST OF YUMA 1 WELL NE SE SW SEC 23 T8S R23W G&SRM	DIVERSION	9	12	7	7	25	38	44	50	24	8	15	7	246 2/
STANFORD, R. L. 1 WELL SW SE SE SEC 22 T8S R22W G&SRM	DIVERSION	0	0	29	0	62	42	96	42	41	57	0	0	369 2/
YUCCA POWERPLANT 1 WELL NE NW SW SEC 36 T16S R21E SBM	DIVERSION													592
NUNNALEY (G. RUSSELL) 1 WELL NE SE SW SEC 28 T16S R22E SBM	DIVERSION	3	1	61	0	1	8	44	47	50	9	1	1	226 2/
POWER, BILL 1 PUMP SW SW NE SEC 30 T16S R22E SBM	DIVERSION													1980
POWER, R. E. (P. POWER) 1 PUMP SW SW NE SEC 30 T16S R22E SBM	DIVERSION													1920
HALL, ANSIL 1 PUMP NW SW NW SEC 36 T16S R21E SBM	DIVERSION													480



DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1982  
STATE OF ARIZONA

V (B)

SUPPLEMENTAL SHEETS

(ACRE-FEET) SHEET 4 OF 4

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS 1/
ARIZONA	SUBTOTALS	943	1228	1335	2220	2440	2543	2500	2533	1188	1074	846	431	19281
IMPERIAL DAM TO INTERNATIONAL BOUNDARY	DIVERSION 3/ DIVERSION 4/	527	686	746	1247	1364	1421	1397	1416	664	600	472	240	10780
ARIZONA	TOTALS	3282	3777	4815	6356	6331	8096	8001	7362	4189	3223	2634	1086	59152

1/ CALCULATED BY ASSUMING AN ANNUAL DIVERSION OF 6 ACRE-FEET PER IRRIGATED ACRE UNLESS OTHERWISE NOTED.

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

3/ TOTAL OF ITEMS FOR USERS FOR WHICH MONTHLY DISTRIBUTION IS SHOWN.

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

DIVERSTIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1982  
STATE OF CALIFORNIA

V (B)

FINAL RECORDS

(ACRE-FEET) SHEET 1 OF 2

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/ RETURN CONSUMPTIVE USE	289	590	1744	2252	2707	3027	2875	3496	2070	1129	425	156	20760
CITY OF NEEDLES 4 WELLS NW SW SEC 29 T9N R23E SBM	DIVERSION RETURN CONSUMPTIVE USE	141 50 91	121 40 81	158 44 114	229 50 179	331 66 265	426 80 346	474 113 361	415 117 298	316 79 237	233 74 159	168 64 104	102 49 53	3114 826 2288
SAN BERNARDINO COUNTY 1 WELL	DIVERSION RETURN CONSUMPTIVE USE	1	1	1	1	1	2	2	2	1	1	1	1	15
METROPOLITAN WATER DISTRICT DIVERSION FROM LAKE HAVASU	DIVERSION RETURN 5/ CONSUMPTIVE USE	36416 327 36089	38107 294 37813	58148 303 57845	67100 284 66816	101709 266 101443	97088 265 96823	92745 282 92463	87333 292 87041	33222 297 32925	34538 314 34224	31000 320 30680	39130 341 38789	716536 3585 712951
PARKER DAM AND GOVERNMENT CAMP DIVERSION AT PARKER DAM	DIVERSION 6/ RETURN CONSUMPTIVE USE	7	8	8	19	23	36	40	30	28	15	7	7	228
COLORADO RIVER INDIAN RESERVATION PUMPED FROM 11 PUMPS AND WELLS 1 WELL-BIG RIVER	DIVERSION 4/ DIVERSION 4/ RETURN CONSUMPTIVE USE	110 124	294 120	192 144	356 202	485 275	545 307	638 280	128 229	266 231	83 165	203 153	107 109	3407 2339
PALO VERDE IRRIGATION DISTRICT DIVERSION FROM PALO VERDE DAM	DIVERSION RETURN CONSUMPTIVE USE	37468 28800 8668	61907 29408 32499	76878 37599 39279	108279 42409 65870	100147 45738 54409	106871 43112 63759	122025 44569 77456	107030 50535 56495	96299 46478 49821	56353 43462 12891	37798 36456 1342	30919 36508 -5589	941974 485074 456900

DIVERIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1982  
STATE OF CALIFORNIA

V (B)

FINAL RECORDS

(ACRE-FEET) SHEET 2 OF 2

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS 1/
YUMA PROJECT RES. DIV. INDIAN UNIT DIVERION AT IMPERIAL DAM	DIVERION RETURN CONSUMPTIVE USE	1640	3699	3292	4796	4632	3616	6126	4623	1750	3670	1557	604	40005
YUMA PROJECT RES. DIV. BARD UNIT DIVERION AT IMPERIAL DAM	DIVERION RETURN CONSUMPTIVE USE	2610	4258	3806	5333	3661	6529	6600	5315	3740	2918	1906	1135	47811
RETURNS FROM YUMA PROJECT RESERVATION DIVISION RETURNS	RETURN 2/	2331	1949	2627	2561	2996	2687	2488	2327	2410	2464	1920	1371	28131
IMPERIAL IRRIGATION DISTRICT DIVERION AT IMPERIAL DAM	DIVERION RETURN CONSUMPTIVE USE	161740	179706	226654	341663	272236	226518	274422	262597	207590	220670	143397	78385	2595578
COACHELLA VALLEY WATER DISTRICT DIVERION AT IMPERIAL DAM	DIVERION RETURN CONSUMPTIVE USE	20675	26151	30299	40635	50947	50334	52506	50354	35332	28779	19572	19284	424868
CITY OF WINTERHAVEN 1 WELL SE SE NE SEC 27 T16S R22E SBM	DIVERION 6/ RETURN CONSUMPTIVE USE	6	5	7	10	11	15	14	14	12	9	8	8	119
OTHER USERS PUMPING FROM COLORADO RIVER AND WELLS IN FLOOD PLAIN DAVIS DAM TO INTERNATIONAL BOUNDARY	DIVERION 3/	919	719	1362	1970	3048	2213	3588	2912	1806	1089	794	241	20661
CALIFORNIA TOTALS	DIVERION RETURN CONSUMPTIVE USE	262146 31508 230638	315686 31691 283995	402693 40573 362120	572845 45304 527541	540213 49066 491147	497527 46144 451383	562335 47452 514883	524478 53271 471207	382663 49264 333399	349652 46314 303338	236999 38760 198229	170188 38269 131919	4817415 517616 4299799

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/ 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.

3/ DETAILS ON CALIFORNIA SUPPLEMENTAL SHEETS 1-6.

4/ CALCULATED FROM MONTHLY POWER RECORDS AND POWER-DISCHARGE MEASUREMENT WHERE AVAILABLE, AND WHERE POWER-DISCHARGE MEASUREMENTS WERE NOT AVAILABLE CALCULATED FROM AVERAGE POWER-DISCHARGE RATE.

5/ ESTIMATE BASED ON MEASURED REGULATORY RESERVOIRS SEEPAGE RETURNS LESS AN ESTIMATED AMOUNT OF PHREATOPHYTE USE.

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

7/ COMPUTED USING 6 ACRE-Feet PER IRRIGATED ACRE WITH ACREAGE FURNISHED BY THE U. S. G. S. AND DISTRIBUTED ACCORDING TO MONTHLY DISTRIBUTION OF OTHER USERS IN THE IMMEDIATE AREA.

DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1982  
STATE OF CALIFORNIA

V (B)

SUPPLEMENTAL SHEETS

(ACRE-FEET) SHEET 1 OF 4

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS 1/
SOTO BROTHERS 1 WELL SW NE SE SEC 36 T11N R22E SBM	DIVERSION													1512
DEASON, RICHARD (TRI-STATE) 1 WELL NW NE NW SEC 31 T11N R22E SBM	DIVERSION													1200
1 WELL SE NE SW SEC 36 T11N R21E SBM	DIVERSION													720
LYLE, R. L. 1 WELL SE NE NW SEC 16 T1S R24E SBM	DIVERSION													108
PASCAL AND LUDWIG ENGINEERING 1 PUMP NE NW NE SEC 31 T3S R24E SBM	DIVERSION	0	0	0	0	0	0	0	0	63	47	36	0	146 2/
BLM PERMITTEES	DIVERSION													205
SUBTOTALS-DAVIS DAM TO IMPERIAL DAM	DIVERSION 3/ DIVERSION 5/	0 60	0 115	0 308	0 396	0 475	0 533	0 512	0 608	63 382	47 219	36 93	0 44	146 3745
COLE (R. LAND) 1 WELL SW SE SE SEC 35 T15S R23E SBM	DIVERSION													636
BERRYMAN 1 WELL NW NW NW SEC 2 T16S R23E SBM	DIVERSION	6	30	33	24	32	0	28	0	7	6	0	1	167 2/

DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1982  
STATE OF CALIFORNIA

V (B)

SUPPLEMENTAL SHEETS

(ACRE-FEET) SHEET 2 OF 4

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS 1/
DUKE (P. POWER) 1 PUMP NW SW SW SEC 14 T16S R23E SBN	DIVERSION													1992
MITCHELL, H. (BERRYMAN) 1 WELL SE SE NW SEC 22 T16S R23E SBN	DIVERSION	18	14	22	63	36	65	88	96	60	32	32	6	532 2/
PEREZ, F. (SLADE) 1 WELL NE SE SW SEC 6 T8S R22W G&SRM	DIVERSION	0	0	84	174	120	157	240	285	92	0	0	2	1154 2/
BARRETT (R. HARP) 1 WELL SE SW SW SEC 6 T8S R22W G&SRM	DIVERSION													858
SPENCER, M. 1 WELL SW NE SW SEC 9 T16S R23E G&SRM	DIVERSION	0	0	193	89	120	0	0	0	0	0	0	0	402 2/
MARTIN, M. (A. DEES) 1 PUMP NE NW NW SEC 1 T8S R23W G&SRM	DIVERSION	0	0	0	0	0	0	153	0	0	0	0	0	153 2/
1 PUMP SE NE NW SEC 1 T8S R23W G&SRM	DIVERSION	0	0	0	0	24	48	48	0	0	0	0	0	120 2/
SCHAFFER, F. (R. HARP) 1 WELL SW SE NE SEC 2 T8S R23W G&SRM	DIVERSION	0	0	0	0	76	0	73	35	15	4	0	0	203 2/

DIVERIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1982  
STATE OF CALIFORNIA

V (B)

SUPPLEMENTAL SHEETS

(ACRE-FEET) SHEET 3 OF 4

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS 1/
COLEY, M. 1 WELL SE SE SW SEC 18 T16S R232E SBM	DIVERSION	12	7	13	10	5	0	0	0	0	0	13	0	60 2/
COLUIN, C. F. 1 WELL NE SE SE SEC 2 T8S R23H G&SRM	DIVERSION	25	18	22	8	84	1	0	0	0	0	0	0	158 2/
WILSON (R. HARP) 1 WELL NE NW NW SEC 12 T8S R23H G&SRM	DIVERSION	11	16	6	8	82	11	44	80	30	41	22	19	370 2/
EASTERDAY, ANNE 1 WELL SW SW SE SEC 1 T8S R23H G&SRM	DIVERSION	0	0	0	0	141	48	95	128	2	0	0	0	414 2/
DEES, JOHN 1 WELL SE NE SE SEC 1 T8S R23H G&SRM	DIVERSION	74	61	87	163	265	282	320	320	200	191	124	24	2111 2/
EVANS, E. (R. HARP) 1 WELL SE NE NE SEC 12 T8S R23H G&SRM	DIVERSION	0	0	0	0	164	0	0	190	0	0	0	0	354 2/
HARP R. 1 WELL SW NE SE SEC 12 T8S R23H G&SRM	DIVERSION													882

DIVERSTIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1982  
STATE OF CALIFORNIA

V (B)

SUPPLEMENTAL SHEETS

(ACRE-FEET) SHEET 4 OF 4

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS 1/
EASTERDAY, KENNETH 1 WELL NW SE SW SEC 12 T8S R23W G&SRM	DIVERSION	67	50	60	184	128	184	258	381	176	97	108	53	1746 2/
SMITH, F. (P. POWER) 1 WELL NE SW SE SEC 11 T8S R23W G&SRM	DIVERSION	423	248	232	433	583	413	786	0	397	237	191	41	3984 2/
MUSGRAVE (BARKLEY COMPANY) 1 WELL NE SE SW SEC 19 T16S R23E SBM	DIVERSION	0	3	28	2	7	12	32	33	21	1	2	0	141 2/
HUTCHESON (SLADE) 1 PUMP SE SE SE SEC 27 T16S R22E SBM	DIVERSION	0	0	0	0	0	0	63	115	0	0	0	0	178 2/
SLADE, W. 1 PUMP SW NE SE SEC 29 T16S R22E SBM	DIVERSION	0	0	0	2	36	22	47	41	7	0	0	0	155 2/
CALIFORNIA SUBTOTALS	DIVERSION 3/	636	447	780	1160	1903	1243	2275	1704	1007	609	492	146	12402
IMPERIAL DAM TO INTERNATIONAL BOUNDARY	DIVERSION 4/	223	157	274	414	670	437	801	600	354	214	173	51	4368
CALIFORNIA TOTALS	DIVERSION	919	719	1362	1970	3048	2213	3588	2912	1806	1089	794	241	20661

1/ CALCULATED BY ASSUMING AN ANNUAL DIVERSION OF 6 ACRE-FEET PER IRRIGATED ACRE UNLESS OTHERWISE NOTED.

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

3/ TOTAL OF ITEMS FOR USERS FOR WHICH MONTHLY DISTRIBUTION IS SHOWN.

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

5/ DISTRIBUTED ACCORDING TO MOHAVE VALLEY IRRIGATION DISTRICT AGRICULTURAL WATER.



DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1981  
STATE OF CALIFORNIA

V (B)

REVISION

FINAL RECORDS

(ACRE-FEET) SHEET 1 OF 2

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS 1/
FORT MOHAVE INDIAN RESERVATION PUMPED FROM WELLS	DIVERSION 7/ RETURN CONSUMPTIVE USE	267	332	716	2133	1691	1972	2883	3109	2789	1591	1412	233	19128
CITY OF NEEDLES 4 WELLS NW SW SEC 29 19N R23E SBM	DIVERSION RETURN CONSUMPTIVE USE	120 46 74	135 43 92	139 48 91	243 60 183	312 70 242	416 80 336	482 94 388	421 80 341	300 83 217	245 63 182	126 55 71	153 19 134	3092 741 2351
SAN BERNARDINO COUNTY 1 WELL	DIVERSION RETURN CONSUMPTIVE USE	1	1	1	1	1	2	2	2	1	1	1	1	15
METROPOLITAN WATER DISTRICT DIVERSION FROM LAKE HAVASU	DIVERSION RETURN 5/ CONSUMPTIVE USE	62456 380 62076	46612 337 46275	57336 371 56965	78616 326 78290	97515 383 97132	84337 271 84066	93356 276 93080	73755 288 73467	78948 299 78649	66651 319 66332	48646 312 48334	42000 330 41670	830228 3892 826336
PARKER DAM AND GOVERNMENT CAMP DIVERSION AT PARKER DAM	DIVERSION 6/ RETURN CONSUMPTIVE USE	8	10	13	16	21	38	36	55	31	21	16	15	280
COLORADO RIVER INDIAN RESERVATION PUMPED FROM 11 PUMPS AND WELLS 1 WELL-BIG RIVER	DIVERSION 4/ DIVERSION 4/ RETURN CONSUMPTIVE USE	757 44	264 47	480 77	1435 101	2139 125	1985 137	1519 191	839 196	1982 172	1249 148	831 95	566 69	14046 1402
PALO VERDE IRRIGATION DISTRICT DIVERSION FROM PALO VERDE DAM	DIVERSION RETURN CONSUMPTIVE USE	41360 32294 9066	67941 32277 35664	72301 37128 35173	103935 40085 63850	105066 45662 59404	120855 43808 77047	130197 45113 85084	126488 45728 80760	102666 48683 53983	55524 45682 9842	41094 39369 1725	40126 35369 4757	1007553 491198 516355

DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1981  
STATE OF CALIFORNIA

V (B)

REVISION	FINAL RECORDS	(ACRE- FEET)												SHEET 2 OF 2
		WATER USER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	
YUMA PROJECT RES. DIV. INDIAN UNIT DIVERSION AT IMPERIAL DAM	DIVERSION RETURN CONSUMPTIVE USE	1821	3437	5289	4391	3058	6027	6948	5932	2953	1681	704	1526	43767
YUMA PROJECT RES. DIV. BARD UNIT DIVERSION AT IMPERIAL DAM	DIVERSION RETURN CONSUMPTIVE USE	2217	3646	3366	3976	4758	7135	8530	6198	3124	2370	2816	2604	50740
RETURNS FROM YUMA PROJECT RESERVATION DIVISION RETURNS	RETURN 2/	2439	2264	3072	2877	3039	3213	3025	3315	2966	2825	2623	2905	34563
IMPERIAL IRRIGATION DISTRICT DIVERSION AT IMPERIAL DAM	DIVERSION RETURN CONSUMPTIVE USE	114266	195563	267408	349322	289034	275583	327183	299999	263014	212895	146807	131215	2872289
COACHELLA VALLEY WATER DISTRICT DIVERSION AT IMPERIAL DAM	DIVERSION RETURN CONSUMPTIVE USE	22537	26851	35210	47570	46238	48081	53683	54791	45762	29924	20450	21163	452260
CITY OF WINTERHAVEN 1 WELL SE SE NE SEC 27 T16S R22E SBM	DIVERSION 6/ RETURN CONSUMPTIVE USE	8	8	9	11	13	15	16	16	14	11	10	9	140
OTHER USERS PUMPING FROM COLORADO RIVER AND WELLS IN FLOOD PLAIN DAVIS DAM TO INTERNATIONAL BOUNDARY	DIVERSION 3/	429	918	1401	2146	2448	2651	4609	4141	2892	1203	475	611	23924
CALIFORNIA TOTALS	DIVERSION RETURN CONSUMPTIVE USE	246291 35159 211132	345765 34921 310844	443746 40619 403127	593896 43348 550548	552419 49154 503265	549234 47372 501862	629635 48508 581127	575942 49411 526531	504648 52031 452617	373514 48889 324625	263483 42359 221124	240291 38623 201668	5318864 530394 4788470

DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1982  
STATE OF NEVADA

V (B)

FINAL RECORDS

(ACRE-FEET) SHEET 1 OF 3

WATER USER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS 1/
<b>BOULDER CITY</b>													
DIVERSION AT HOOVER DAM	48	49	53	51	62	103	101	96	87	10	5	11	676
DIVERSION AT SADDLE ISLAND, LAKE MEAD	158	144	208	325	412	455	512	413	361	400	271	201	3860
DIVERSION 2/ RETURN CONSUMPTIVE USE													
<b>LAKE MEAD NATIONAL RECREATION AREA</b>													
DIVERSION AT LAKE MEAD	41	36	47	65	94	101	141	106	125	82	66	66	970
DIVERSION AT SADDLE ISLAND, LAKE MEAD	5	3	5	8	8	7	13	10	5	3	2	1	70
DIVERSION 3/ RETURN CONSUMPTIVE USE													
<b>BASIC MANAGEMENT INC.</b>													
DIVERSION AT SADDLE ISLAND, LAKE MEAD	551	473	455	383	489	577	619	685	569	483	391	405	6080
DIVERSION RETURN CONSUMPTIVE USE													
<b>CITY OF HENDERSON</b>													
DIVERSION AT SADDLE ISLAND, LAKE MEAD	186	154	164	271	460	583	836	761	585	442	296	332	5070
DIVERSION AT SADDLE ISLAND, LAKE MEAD	291	291	448	524	608	613	482	606	519	480	347	260	5469
DIVERSION 2/ RETURN CONSUMPTIVE USE													
<b>LAS VEGAS VALLEY WATER DISTRICT</b>													
DIVERSION AT SADDLE ISLAND, LAKE MEAD	6938	6310	7659	8711	9918	10339	10795	10548	9406	8611	7442	6984	103651
DIVERSION 2/ RETURN CONSUMPTIVE USE													
<b>NEVADA STATE DEPARTMENT OF FISH AND GAME</b>													
DIVERSION AT SADDLE ISLAND, LAKE MEAD	375	340	376	358	355	350	349	380	377	389	385	383	4417
DIVERSION RETURN CONSUMPTIVE USE	375 0	340 0	376 0	358 0	355 0	350 1	349 1	380 1	377 0	389 0	385 1	383 0	4413 4
<b>PACIFIC COAST BUILDING PRODUCTS INC.</b>													
DIVERSION AT GYPSUM WASH. LAKE MEAD	26	44	48	48	46	48	48	52	50	48	48	53	559
DIVERSION RETURN CONSUMPTIVE USE													

DIVERIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1982  
STATE OF NEVADA

V (B)

FINAL RECORDS

(ACRE-FEET) SHEET 2 OF 3

WATER USER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS 1/
CITY OF NORTH LAS VEGAS DIVERSION AT SADDLE ISLAND, LAKE MEAD DIVERSION 2/ RETURN CONSUMPTIVE USE	239	246	501	695	1028	1253	1263	1200	861	663	413	156	8518
NELLIS AIR FORCE BASE DIVERSION AT SADDLE ISLAND, LAKE MEAD DIVERSION 2/ RETURN CONSUMPTIVE USE	105	136	140	175	253	276	267	253	223	158	70	0	2056
SOUTHERN CALIFORNIA EDISON COMPANY PUMPED FROM SEC 24 T32S R66E MDB&M DIVERSION RETURN CONSUMPTIVE USE	1425	1375	1829	1115	1496	868	1606	1816	1608	1393	1428	1335	17294
RAMELLI, HELEN 1 PUMP SEC 13 T32S R66E MDB&M DIVERSION 4/ RETURN CONSUMPTIVE USE													2
WIEBKE, ARMIN T. 1 PUMP SEC 33 T32S R66E MDB&M DIVERSION 4/ RETURN CONSUMPTIVE USE													8
PORTENIER, WARREN E. 1 PUMP SEC 33 T32S R66E MDB&M DIVERSION 4/ RETURN CONSUMPTIVE USE													42
MELLES, JOHN C. 1 PUMP SEC 33 T32S R66E MDB&M DIVERSION 4/ RETURN CONSUMPTIVE USE													8
KNIGHT, JOHN B. 1 PUMP SEC 33 T32S R66E MDB&M DIVERSION 4/ RETURN CONSUMPTIVE USE													5
BOY SCOUTS OF AMERICA 1 PUMP SEC 5 T33S R66E MDB&M DIVERSION 4/ RETURN CONSUMPTIVE USE													8

DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1982  
STATE OF NEVADA

V (B)

FINAL RECORDS		(ACRE-FEET) SHEET 3 OF 3												
WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS 1/
LAS VEGAS WASH RETURNS	RETURN 6/	4265	4223	4746	4210	4202	3925	4015	4007	4003	4794	4650	4994	52034
NEVADA TOTALS	DIVERSION	10388	9601	11933	12729	15229	15573	17032	16926	14776	13162	11164	10187	158773 5/
	RETURN	4640	4563	5122	4568	4557	4274	4363	4386	4380	5183	5034	5377	56447
	CONSUMPTIVE USE	5748	5038	6811	8161	10672	11299	12669	12540	10395	7979	6130	4810	102326 5/

1/ NO SURFACE RETURN UNLESS SHOWN ON REPORT.

2/ DELIVERED THROUGH THE FACILITIES OF THE SOUTHERN NEVADA WATER PROJECT.

3/ DELIVERED THROUGH THE FACILITIES OF BASIC MANAGEMENT INC.

4/ REPORTS ANNUALLY.

5/ THE MONTHLY TOTALS DO NOT ADD TO THE ANNUAL TOTAL BECAUSE OF NONAVAILABILITY OF MONTHLY VALUES FOOTNOTED 4/.

6/ ESTIMATED BASED UPON THE PERCENTAGE OF COLORADO RIVER WATER USED IN THE LAS VEGAS VALLEY.

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 1982

The following tabulations for calendar year 1982 show records of releases of mainstream water pursuant to orders, therefore, 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 diversions from the Colorado River in Nevada so no sheet is included for Nevada. The storage capacity of Lake Mead is so large in relation to the present daily diversions from the reservoir by Nevada that any "water ordered but not diverted" would be retained for future use and would have no significant effect on scheduling of daily operations of the reservoir.

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

V (C)

AND  
QUANTITY OF SUCH WATER DELIVERED TO MEXICO IN SATISFACTION OF MEXICAN TREATY OR DIVERTED BY OTHERS  
CALENDAR YEAR 1982  
STATE OF ARIZONA

(ACRE-FEET) SHEET 1 OF 3

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
COLO. RIVER INDIAN RESERVATION DIVERSION AT HEADGATE ROCK	ORDERED BUT NOT DIVERTED	393	3505	1890	2364	1821	904	1271	2434	674	623	1067	409	17355
	DELIVERED TO MEXICO IN SATISFACTION OF TREATY	0	0	0	0	0	0	0	0	0	0	0	0	0
	DIVERTED BY OTHERS	20	159	296	371	859	440	561	161	56	206	105	216	3450
	DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	373	3346	1568	1993	962	464	710	2192	618	417	962	187	13792
YUMA PROVING GROUND U. S. ARMY DIVERSION AT IMPERIAL DAM 1/	ORDERED BUT NOT DIVERTED	0	0	0	0	0	0	0	0	0	0	0	0	0
	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
NORTH GILA VALLEY I. D. DIVERSION AT IMPERIAL DAM	ORDERED BUT NOT DIVERTED	696	635	1232	450	611	904	986	660	478	444	1184	1057	9337
	DELIVERED TO MEXICO IN SATISFACTION OF TREATY	0	0	0	0	0	0	0	0	0	0	0	0	0
	DIVERTED BY OTHERS	18	248	143	240	347	597	575	200	266	54	123	60	2871
	DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	678	387	1008	210	264	307	375	442	206	390	1061	678	6006
WARREN ACT CONTRACTORS GILA PROJECT DISTRICTS DIVERSION AT IMPERIAL DAM 1/	ORDERED BUT NOT DIVERTED	0	0	0	0	0	0	0	0	0	0	0	0	0
	DELIVERED TO MEXICO IN SATISFACTION OF TREATY	0	0	0	0	0	0	0	0	0	0	0	0	0
	DIVERTED BY OTHERS	0	0	0	0	0	0	0	0	0	0	0	0	0
	DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	0	0	0	0	0	0	0	0	0	0	0	0	0
WELLTON-MOHAWK I. & D. DISTRICT DIVERSION AT IMPERIAL DAM	ORDERED BUT NOT DIVERTED	8356	1615	7303	2523	2725	4905	6214	11524	4548	7297	5693	5915	68618
	DELIVERED TO MEXICO IN SATISFACTION OF TREATY	0	0	0	0	0	0	0	0	0	0	0	0	0
	DIVERTED BY OTHERS	1012	446	200	355	736	355	1587	1000	831	829	780	315	8446
	DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	7344	1169	6343	2168	1989	4550	4347	8902	3612	6468	4913	3718	55523



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CALENDAR YEAR 1982  
STATE OF ARIZONA

(ACRE-FEET) SHEET 2 OF 3

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
YUMA IRRIGATION DISTRICT DIVERSION AT IMPERIAL DAM	ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	780	553	930	514	454	532	238	789	470	345	444	783	6832
	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	89	204	143	284	200	143	113	103	85	85	93	16	1558
		691	349	694	230	254	389	125	601	371	260	351	460	4775
YUMA MESA I. & D. DISTRICT DIVERSION AT IMPERIAL DAM	ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	5500	3334	3543	1674	1799	1404	875	3533	2583	4348	2876	3574	35043
	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	206	1051	422	825	627	292	246	256	633	476	325	351	5710
		5294	2283	2770	849	1172	1112	601	2634	1831	3872	2551	2289	27258
UNIT "B" I. & D. DISTRICT DIVERSION AT IMPERIAL DAM	ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	173	135	591	177	238	202	373	774	762	369	175	381	4350
	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	2	28	18	18	77	42	143	137	333	34	10	48	890
		171	107	502	159	161	160	230	474	379	335	165	329	3172
CITY OF YUMA DIVERSION AT IMPERIAL DAM	ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	81	0	113	0	0	15	44	214	247	192	102	56	1064
	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	14	0	27	0	0	2	22	32	124	27	8	17	273
		67	0	78	0	0	13	20	174	117	165	94	21	749
YUMA COUNTY WATER USERS ASSN. DIVERSION AT IMPERIAL DAM	ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	1607	1624	4149	2141	3264	2186	2793	3665	946	1841	4176	5988	34380
	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	274	710	990	1604	1594	263	1363	548	476	251	325	1861	10259
		1333	914	2850	537	1670	1923	1272	2978	448	1590	3851	2227	21593

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CALENDAR YEAR 1982  
STATE OF ARIZONA

(ACRE-FEET) SHEET 3 OF 3

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
COCOPAH INDIAN RESERVATION DIVERSION AT IMPERIAL DAM	ORDERED BUT NOT DIVERTED	0	14	3	7	11	9	15	7	1	0	0	0	67
	DELIVERED TO MEXICO IN	0	0	0	0	0	0	0	0	0	0	0	0	0
	SATISFACTION OF TREATY	0	6	1	5	5	1	7	1	1	0	0	0	27
	DIVERTED BY OTHERS	0	8	2	2	6	8	7	6	0	0	0	0	39
	DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	0	0	0	0	0	0	1	0	0	0	0	0	1
ARIZONA TOTALS	ORDERED BUT NOT DIVERTED	17586	11415	19754	9850	10923	11061	12809	23600	10709	15459	15717	18163	177046
	DELIVERED TO MEXICO IN	0	0	0	0	0	0	0	0	0	0	0	0	0
	SATISFACTION OF TREATY	1635	2852	2240	3702	4445	2135	4617	2438	2805	1962	1769	2884	33484
	DIVERTED BY OTHERS	15951	8563	15815	6148	6478	8926	7687	18403	7582	13497	13948	9909	132907
	DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	0	0	1699	0	0	0	505	2759	322	0	0	5370	10655

1/ NO ORDER RECEIVED.

2/ AVAILABLE FOR FUTURE USE.

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CALENDAR YEAR 1982  
STATE OF CALIFORNIA

(ACRE-FEET) SHEET 1 OF 2

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	0	0	0	0	5491	5002	2735	0	0	0	0	0	13228
	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	0	0	0	0	0	0	0	0	0	0	0	0	0
PALO VERDE IRRIGATION DISTRICT DIVERSION AT PALO VERDE DAM	DELIVERED TO STORAGE 1/ DELIVERED TO MEXICO IN	0	0	0	0	5491	5002	2735	0	0	0	0	0	13228
	EXCESS OF TREATY	0	0	0	0	0	0	0	0	0	0	0	0	0
	ORDERED BUT NOT DIVERTED	549	569	1037	839	524	1113	770	3029	2842	1716	2912	2444	18344
	DELIVERED TO MEXICO IN	0	0	0	0	0	0	0	0	0	0	0	0	0
YUMA PROJECT RESV. DIVISION BARD UNIT DIVERSION AT IMPERIAL DAM	SATISFACTION OF TREATY	101	73	466	274	101	228	335	1059	732	823	1103	1398	6693
	DIVERTED BY OTHERS	448	496	545	555	423	885	435	1918	2035	893	1809	669	11121
	DELIVERED TO STORAGE 1/ DELIVERED TO MEXICO IN	0	0	26	0	0	0	0	52	75	0	0	377	530
	EXCESS OF TREATY	981	439	1196	335	729	495	277	1493	1340	668	2026	2222	12201
YUMA PROJECT RESV. DIVISION INDIAN UNIT DIVERSION AT IMPERIAL DAM	DELIVERED TO MEXICO IN	0	0	0	0	0	0	0	0	0	0	0	0	0
	SATISFACTION OF TREATY	322	320	197	287	380	98	1	190	714	221	554	1066	4350
	DIVERTED BY OTHERS	659	119	909	48	349	397	243	1144	617	447	1472	753	7157
	DELIVERED TO STORAGE 1/ DELIVERED TO MEXICO IN	0	0	90	0	0	0	33	159	9	0	0	403	694
IMPERIAL IRRIGATION DISTRICT DIVERSION AT IMPERIAL DAM	EXCESS OF TREATY	659	432	1164	331	580	296	274	1395	663	931	1556	1094	9375
	ORDERED BUT NOT DIVERTED	0	0	0	0	0	0	0	0	0	0	0	0	0
	DELIVERED TO MEXICO IN	216	315	192	284	302	59	1	177	353	307	426	525	3157
	SATISFACTION OF TREATY	443	117	885	47	278	237	241	1070	305	624	1130	371	5748
IMPERIAL IRRIGATION DISTRICT DIVERSION AT IMPERIAL DAM	DIVERTED BY OTHERS	0	0	87	0	0	0	32	148	5	0	0	198	470
	DELIVERED TO STORAGE 1/ DELIVERED TO MEXICO IN	2513	2914	20023	718	0	595	6313	5268	8116	0	1190	10062	57712
	EXCESS OF TREATY	0	0	0	0	0	0	0	0	0	0	0	0	0
	ORDERED BUT NOT DIVERTED	141	758	661	73	0	0	0	131	133	0	0	28	1925
IMPERIAL IRRIGATION DISTRICT DIVERSION AT IMPERIAL DAM	DELIVERED TO MEXICO IN	2372	2156	16494	645	0	595	5016	3487	6850	0	1190	2405	41210
	SATISFACTION OF TREATY	0	0	2868	0	0	0	1297	1650	1133	0	0	7629	14577
	DIVERTED BY OTHERS	0	0	0	0	0	0	0	0	0	0	0	0	0
	DELIVERED TO STORAGE 1/ DELIVERED TO MEXICO IN	0	0	0	0	0	0	0	0	0	0	0	0	0

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CALENDAR YEAR 1982  
STATE OF CALIFORNIA

(ACRE-FEET) SHEET 2 OF 2

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
COACHELLA VALLEY WATER DIST. DIVERSION AT IMPERIAL DAM	ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	0	714	2182	0	0	595	198	1190	595	198	992	793	7457
	DIVERTED BY OTHERS	0	0	0	0	0	0	0	0	0	0	0	0	0
	DELIVERED TO STORAGE 1/ DELIVERED TO MEXICO IN EXCESS OF TREATY	0	381	1494	0	0	192	168	946	391	0	843	408	4823
		0	0	321	0	0	0	0	169	0	0	0	143	633
CALIFORNIA TOTALS	ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	4702	5068	25602	2223	7324	8096	10567	12375	13556	3513	8676	16615	118317
	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	780	1799	1883	918	783	788	367	1632	2136	1549	2232	3259	18126
		3922	3269	20327	1305	6541	7308	8838	8565	10198	1964	6444	4606	83287

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 1982

DELIVERIES TO MEXICO IN SATISFACTION OF PART III OF 1944 TREATY  
 AND  
 WATER PASSING TO MEXICO IN EXCESS OF TREATY REQUIREMENTS  
 CALENDAR YEAR 1982

V (D)

(ACRE-FEET)

WATER USER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
DELIVERIES TO MEXICO IN SATISFACTION OF TREATY	126192	121653	217827	230990	114202	105699	133612	140714	89308	56398	55857	107548	1500000
PASSING TO MEXICO IN EXCESS OF TREATY REQUIREMENTS 1/	12884	11607	16901	12630	20257	19379	13711	17724	13654	13859	13538	32872	199016

1/ INCLUDES 149,698 ACRE-FEET 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 1982