

UNITED STATES
DEPARTMENT OF THE INTERIOR
Hilton Hodel, , Secretary

BUREAU OF RECLAMATION
Commissioner

LOWER COLORADO REGION
N. W. Plummer, Regional Director

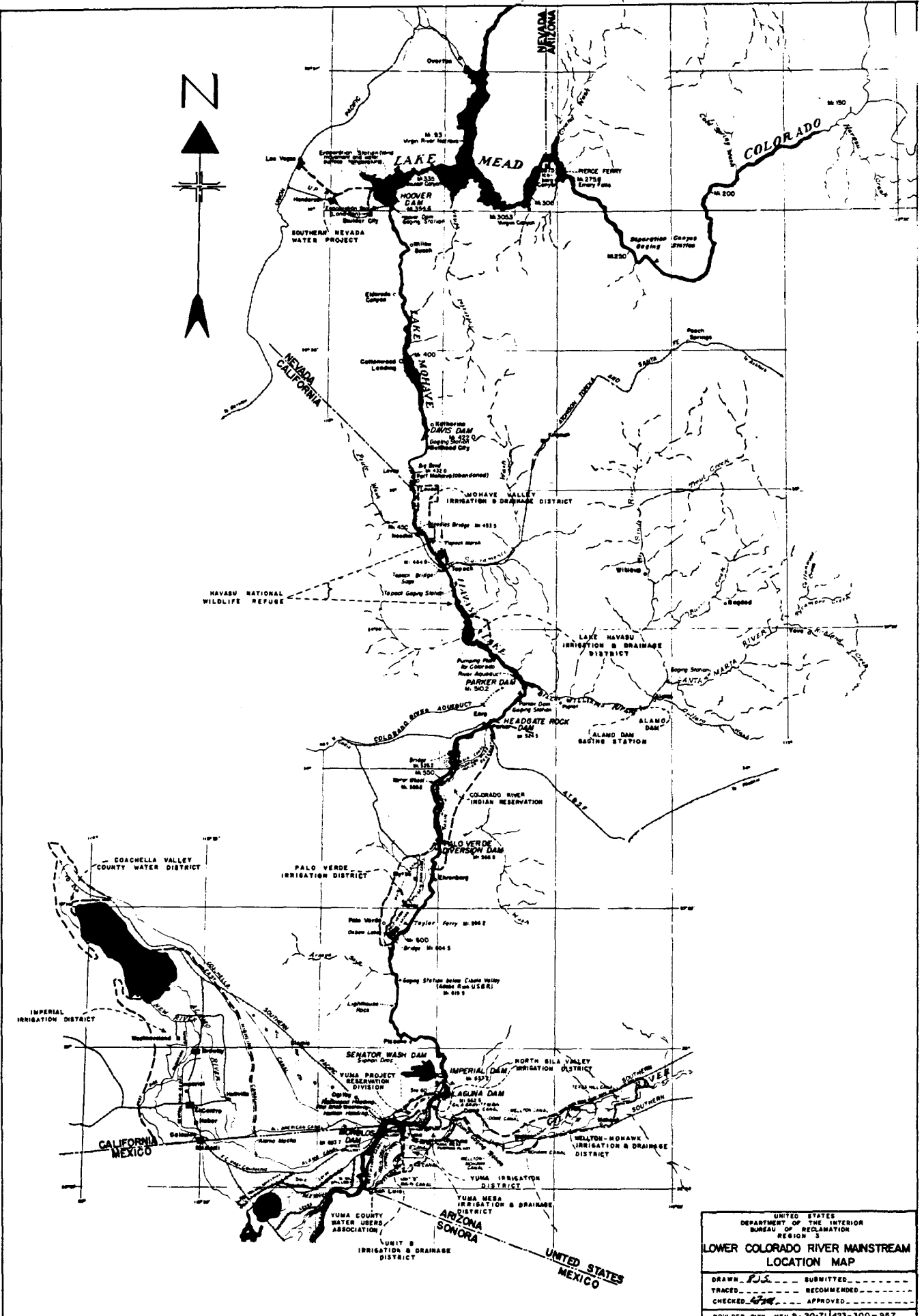
COMPILATION OF RECORDS IN
ACCORDANCE WITH ARTICLE V OF THE
DECREE OF THE SUPREME COURT OF
THE UNITED STATES IN
ARIZONA v. CALIFORNIA DATED MARCH 9, 1964
CALENDAR YEAR 1983

Division of Water and Land Operations
Boulder City, Nevada

April 1985

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

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

CALENDAR YEAR 1983

The following tabulations for calendar year 1983 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 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 "Diversions 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 1983

V (A)

STRUCTURE	(ACRE- FEET)												TOTALS
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
HOOVER DAM	1176000	364700	633500	1060000	1216000	1886000	2574000	2422000	2187000	2106000	1750000	1692000	19070000
DAVIS DAM	1127000	438700	578000	1161000	1248000	1741000	2670000	2494000	2356000	2286000	1714000	1562000	19380000
PARKER DAM	1007000	401700	591400	1051000	1127000	1613000	2440000	2422000	2266000	2202000	1604000	1473000	18200000
HEADGATE ROCK DAM 1/	996100	372500	553400	988900	1066000	1540000	2363000	2373000	2214000	2169000	1575000	1449000	17660000
PALO VERDE DAM 2/	908200	334800	488100	845900	918800	1364000	2197000	2282000	2052000	2105000	1537000	1418000	16450000
IMPERIAL DAM 3/	183900	82220	31360	115100	135100	487200	1508000	1596000	1296000	1400000	879800	726500	8441000
LAGUNA DAM	182500	87800	34410	110700	133100	481800	1499000	1620000	1335000	1393000	926300	763600	8568000

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

CALENDAR YEAR 1983

The following tabulations for calendar year 1983 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 by water user agencies which have contracts with the United States. 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, 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 proration 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 1983 was made by two basic methods: (1) For most electric pumps, diversion was computed on a monthly basis from power records and a "kilowatthour per acre-foot factor" that was determined by discharge measurement; (2) For pumps other than electric, a consumptive use 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-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 Reclamation and the U.S. 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. The tabulations for calendar year 1983 do include acceptable determinations of the appropriate Colorado River return flows accruing to Lake Mead from Las Vegas Wash for the State of Nevada and a portion of the flows from the Yuma Mesa Division for the State of Arizona.

DIVERSTIONS FROM MAZAM-AVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SUCH WATER
CALENDAR YEAR 1983
STATE OF ARIZONA

V (8)

FINAL RECORDS

(ACRE-FEET) SHEET 1 OF 5

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	16	14	13	19	28	30	30	21	24	22	17	15	249
DAVIS DAM AND GOVERNMENT CAMP DIVERSION AT DAVIS DAM	DIVERSION RETURN CONSUMPTIVE USE	7	6	7	16	30	39	49	30	26	14	10	7	241
MOHAVE WATER CONSERVATION DISTRICT PUMPED FROM WELLS	DIVERSION RETURN CONSUMPTIVE USE	4	3	4	4	6	7	8	8	7	5	4	4	62
MOHAVE VALLEY I. & D. DISTRICT PUMPED FROM WELLS AND DIVERTED FROM INLET CHANNEL TO HAVASU REFUGE	DIVERSION RETURN CONSUMPTIVE USE	984	1097	1970	2678	3197	2803	3820	3699	2873	1229	1265	567	26182
FORT MOHAVE INDIAN RESERVATION 9 PUMPS AND WELLS IN FLOOD PLAIN	DIVERSION 7/ RETURN CONSUMPTIVE USE	1599	1905	3893	7042	5087	5449	2755	3911	5831	4984	4440	324	47220
HAVASU NATIONAL WILDLIFE REFUGE INLET-NW NE NW SEC 33 T9N R22W G8SRM	DIVERSION RETURN CONSUMPTIVE USE	6091	1139	1262	2567	4330	6280	0	0	0	0	0	0	21669
LAKE HAVASU IRRIGATION AND DRAINAGE DISTRICT PUMPED FROM WELLS	DIVERSION RETURN CONSUMPTIVE USE	476	427	495	621	851	994	1110	824	797	705	604	545	8449
CONSOLIDATED WATER UTILITIES LTD. PUMPED FROM RIVER	DIVERSION RETURN CONSUMPTIVE USE	18	17	20	24	31	32	36	29	26	22	21	17	293
TOWN OF PARKER 1 WELL-NW NW NW SEC 7 T9N R19W G8SRM	DIVERSION RETURN CONSUMPTIVE USE	48	47	59	80	91	97	103	81	82	70	50	43	851

DIVERSIONS FROM MAINTENANCE AVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SUCH WATER
CALENDAR YEAR 1983
STATE OF ARIZONA

V (B)

FINAL RECORDS

(ACRE- FEET) SHEET 2 OF 5

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS 1/
COLORADO RIVER INDIAN RESERVATION DIVERSION AT HEADGATE ROCK DAM PUMPED FROM 2 WELLS IN PARKER SW NE SE SEC 2 19N R21W G&SRM 4 WELLS IN POSTON NW SEC 36 18N R21W G&SRM 3 PUMPS NE SW NW SEC 14 14N R22W G&SRM	DIVERSION	10872	29175	38044	62052	61379	73092	77436	48776	52491	33271	28618	24312	539518
	DIVERSION	0	4	6	16	21	18	18	12	8	10	3	0	116
	DIVERSION	1	3	0	0	0	0	0	0	0	0	0	0	4
	DIVERSION 2/	351	312	473	300	723	805	984	574	794	522	537	86	6461
	RETURN CONSUMPTIVE USE	13673 -2449	15128 14366	18138 20385	22285 40083	21266 40857	24785 49130	31582 46856	25731 23631	23751 29542	26027 7776	22790 6368	21640 2758	266796 279303
EURENBURG IMPROVEMENT ASSM. 1 PUMP SW SEC 3 13N R22W G&SRM	DIVERSION	6	7	8	9	12	14	16	13	13	11	9	8	126
	RETURN CONSUMPTIVE USE													
CIBOLA VALLEY IRRIGATION DISTRICT 4 PUMPS SEC'S 20 & 21 1 IN R23W G&SRM	DIVERSION 2/	581	654	2085	1618	902	1487	2069	869	1156	470	219	35	12145
	RETURN CONSUMPTIVE USE													
CIBOLA NATIONAL WILDLIFE REFUGE 3 PUMPS	DIVERSION 6/ RETURN	36	93	217	956	938	988	952	688	653	431	431	119	6502
	CONSUMPTIVE USE													
IMPERIAL NATIONAL WILDLIFE REFUGE 2 WELLS SEC 13 15S R22W G&SRM	DIVERSION 6/ RETURN	1	1	2	3	3	3	3	3	3	2	1	1	26
	CONSUMPTIVE USE													
YUMA PROVING GROUND DIVERSION AT IMPERIAL DAM	DIVERSION	3	0	2	0	0	0	0	0	0	2	1	0	8
	RETURN CONSUMPTIVE USE													
WARREN ACT CONTRACTORS DIVERSION AT IMPERIAL DAM	DIVERSION	106	33	381	32	113	12	80	0	174	419	346	129	1825
	RETURN CONSUMPTIVE USE													

DIVERIONS FROM MAINS! AVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SUCH WATER
CALENDAR YEAR 1983
STATE OF ARIZONA

V (B)

FINAL RECORDS		(ACRE- FEET) SHEET 4 OF 5												
WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS 1/
CAMILLE, ALEC. JR. DIVERSION AT IMPERIAL DAM	DIVERSION	1	1	2	3	3	4	4	3	3	2	2	1	29
	RETURN													
	CONSUMPTIVE USE													
DESERT LAWN MEMORIAL DIVERSION AT IMPERIAL DAM	DIVERSION	6	6	13	19	19	25	26	19	18	12	11	6	180
	RETURN													
	CONSUMPTIVE USE													
NORTH GILA VALLEY IRRIGATION DISTRICT DIVERSION AT IMPERIAL DAM B/	DIVERSION	2842	2952	4238	4396	5446	5097	4187	2177	1994	2508	2859	2046	40742
	RETURN	815	709	845	713	948	857	796	1066	1173	1179	1118	1218	11437
	CONSUMPTIVE USE	2027	2243	3393	3683	4498	4240	3391	1111	821	1329	1741	828	29305
YUMA IRRIGATION DISTRICT DIVERSION AT IMPERIAL DAM B/ PUMPED FROM PRIVATE WELLS	DIVERSION	3211	2964	3723	4436	6797	5678	6272	3940	6683	4792	3795	3441	55732
	DIVERSION	707	718	1084	853	1086	1164	1303	1040	1668	589	511	604	11327
	RETURN	86	78	73	133	269	311	529	575	519	413	384	315	3685
	CONSUMPTIVE USE	3832	3604	4734	5156	7614	6531	7046	4405	7832	4968	3922	3730	63374
YUMA MESA I. & D. DISTRICT DIVERSION AT IMPERIAL DAM B/	DIVERSION	9430	7979	14510	17181	23380	25477	27699	18797	24177	13712	13554	7158	203034
	RETURN	1252	1518	1740	1737	1746	1107	1226	1378	1194	1352	1584	1806	17940
	CONSUMPTIVE USE	8178	6461	12770	15424	21634	24370	26473	17419	22783	12360	11970	5252	185094
PUMPED FROM SOUTH GILA WELLS B/	RETURN 4/	4216	4356	5620	6141	6695	6121	5892	4232	5662	4204	4937	5247	63323
UNMEASURED RETURNS YUMA MESA DIVISION	RETURN B/	1529	1537	2132	2291	3021	2732	2469	1379	1693	1624	1618	1259	23284
UNIT "B" I. & D. DISTRICT DIVERSION AT IMPERIAL DAM B/BE/	DIVERSION	1583	1103	2104	2211	3576	3916	3887	3040	3361	2083	1809	1358	30031
	RETURN	221	268	306	307	308	195	216	243	246	239	280	338	3187
	CONSUMPTIVE USE	1362	835	1798	1904	3268	3721	3671	2797	3115	1844	1529	1020	26864

DIVERSIONS FROM MAINTENANCE AVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SUCH WATER
CALENDAR YEAR 1983
STATE OF ARIZONA

V (B)

FINAL RECORDS

(ACRE- FEET) SHEET 5 OF 5

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS 1/
YUMA COUNTY WATER USERS ASSOCIATION														
DIVERSION AT IMPERIAL DAM	DIVERSION	13162	13236	23456	26361	23738	23900	31304	21044	25330	21224	16362	12838	251955
PUMPED FROM WELLS BE/	DIVERSION	970	715	910	1078	991	1063	990	831	910	1062	899	999	11418
	RETURN	6411	5780	7221	7071	7007	6514	7986	7891	8845	10316	9913	9649	94604
	CONSUMPTIVE USE	7721	8171	17145	20368	17722	18449	24308	13984	17395	11970	7348	4188	168769
COCOPAH INDIAN RESERVATION														
DIVERSION AT IMPERIAL DAM	DIVERSION	0	104	10	11	111	124	207	135	84	1	3	0	790
PUMPED FROM WELLS BE/	DIVERSION	0	6	0	0	5	5	6	5	3	0	0	0	30
	RETURN													
	CONSUMPTIVE USE													
OTHER USERS PUMPING FROM COLORADO RIVER														
AND WELLS IN FLOOD PLAIN	DIVERSION S/	1359	1568	2886	4753	4267	4939	5737	4055	2262	905	734	555	34020
DAVIS DAM TO INTERNATIONAL BOUNDARY														
ARIZONA TOTALS														
	DIVERSION	72526	84007	133398	177694	190952	215408	218480	145593	167499	113243	99057	73722	1691579
	RETURN	40044	39261	47816	52277	53780	55017	62970	54704	53995	58200	55749	55597	629410
	CONSUMPTIVE USE	32482	44746	85582	125417	137172	160391	155510	90889	113504	55043	43308	18125	1062169

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 130,785 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, 'UNIT B', AS WELL AS FROM SOUTH GILA VALLEY.

5/ DETAILS ON ARIZONA SUPPLEMENTAL SHEETS 1-4

6/ MONTHLY DISTRIBUTION NOT AVAILABLE, 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.

8/ SUMMATION FOR THE YUMA MESA DIVISION, CONSISTING OF THE NORTH GILA VALLEY IRRIGATION DISTRICT, THE YUMA IRRIGATION DISTRICT, AND THE YUMA MESA IRRIGATION, AND DRAINAGE DISTRICT, IS AS FOLLOWS.

ITEM	ANNUAL TOTALS (ACRE-FEET)
DIVERSION AT IMPERIAL DAM A/ PUMPED FROM WELLS	299508 11327
SURFACE RETURNS FROM SOUTH GILA VALLEY	3685
RETURN FLOW NORTH GILA VALLEY	11437
RETURN FLOW SOUTH GILA VALLEY WELLS	63323
RETURN FLOW YUMA MESA OUTLET DRAIN B/ RETURN FLOW PROTECTIVE AND REGULATORY PUMPING UNIT C/ ESTIMATED UNMEASURED GROUND-WATER RETURN FLOW D/ SUBTOTAL RETURN FLOW E/	14594 3346 23284 119669
CONSUMPTIVE USE (SEE NOTE ABOVE)	191166
(A) TOTAL FOR THE NORTH GILA VALLEY, THE YUMA IRRIGATION, AND THE YUMA MESA IRRIGATION AND DRAINAGE DISTRICTS.	
(B) ESTIMATED AT 85 PERCENT OF THE YUMA MESA OUTLET DRAIN (17,170 ACRE-FEET) WITH BALANCE CREDITED TO 'UNIT B'.	
(C) ESTIMATED AT 85 PERCENT OF PROTECTIVE AND REGULATORY PUMPING UNIT (3,937 ACRE-FEET) WITH BALANCE CREDITED TO 'UNIT B'.	
(D) ESTIMATED AT 38 PERCENT OF THE NORTH GILA VALLEY DIVERSION AT IMPERIAL DAM PLUS 14 PERCENT OF YUMA IRRIGATION DISTRICT DIVERSION AT IMPERIAL DAM. (BASED ON ANALYSIS OF THE USGS REPORT 83-4220 ENTITLED "A METHOD FOR ESTIMATING GROUND-WATER RETURN FLOW TO THE LOWER COLORADO RIVER IN THE YUMA AREA").	
(E) ADDITIONAL UNMEASURED AMOUNTS OF RETURN FLOWS FROM THE YUMA MESA IRRIGATION AND DRAINAGE DISTRICT, 'UNIT B', THE COCOPAH INDIAN RESERVATION, AND THE YUMA COUNTY WATER USERS ASSOCIATION (YCWUA) ARE UTILIZED TO MEET CONSUMPTIVE USES IN THE UNITED STATES AND IN PARTIAL SATISFACTION OF THE MEXICAN TREATY OBLIGATION. SOME OF THESE UNDERGROUND FLOWS ARE RECOVERED BY PUMPING FROM WELLS ON THE COCOPAH INDIAN RESERVATION AND IN THE YUMA AREA, AND BY SOME OF THE SURFACE DRAINS IN THE YCWUA AREA. EFFORTS WILL BE MADE TO AT LEAST QUANTIFY THESE RETURN FLOWS WITHIN BROAD LIMITS BY RESPECTIVE WATER USER ENTITIES IN FUTURE YEARS.	

DIVERSIONS FROM MAINTENANCE AVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SUCH WATER
CALENDAR YEAR 1983
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/
RAYNER, JACK JR. 2 PUMPS SW SE SW SEC 34 T4N R22W G&SRM	DIVERSION	112	122	144	331	210	307	226	299	79	0	0	0	1830 2/
1 WELL SW SW SW SEC 34 T4N R22W G&SRM	DIVERSION	0	0	0	0	40	32	160	112	12	18	0	0	374 2/
ARAKELIAN FARMS 1 PUMP SE NW SE SEC 16 T3N R22W G&SRM	DIVERSION													374
SPRAWL (TOMERY, A.) 1 PUMP SE SW NW SEC 21 T1N R23W G&SRM	DIVERSION													3180
BIM PERMITTEES	DIVERSION													126
SUBTOTALS-DAVIS DAM TO IMPERIAL DAM	DIVERSION 3/ DIVERSION 4/	112 187	122 203	144 240	331 552	250 417	339 566	386 644	411 686	91 155	18 30	0 0	0 0	2204 3680
PRATT, LOREN 1 WELL SW NW NE SEC 14 T7S R22W G&SRM	DIVERSION													60
1 PUMP SE SW NW SEC 14 T7S R22W G&SRM	DIVERSION													60
DULIN, ARLIN 1 WELL SE SW SW SEC 8 T8S R22W G&SRM	DIVERSION	0	6	0	93	4	38	77	0	0	0	0	0	218 2/
COLEY, MARVIN M. 1 WELL SE SW SW SEC 7 T8S R22W G&SRM	DIVERSION	0	0	0	90	0	53	112	59	53	0	0	0	367 2/

DIVERSIONS FROM MAINTENANCE-AVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SUCH WATER
CALENDAR YEAR 1983
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 9 WELLS SEC 18 T8S R 21W & SEC. 'S 13 & 14 T8S R22W G&SRM	DIVERSION	537	607	1320	1816	1822	2224	2672	1764	1119	513	379	299	15072 2/
YONELMAN, R. 1 WELL NW SW SW SEC 17 T8S R22W G&SRM	DIVERSION													720
BARKLEY COMPANY 1 WELL SE NW SW SEC 18 T8S R22W G&SRM	DIVERSION	11	8	127	50	26	2	1	9	0	0	0	0	234 2/
AUZA, PETE 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 I. 1 WELL NW NE NW SEC 30 T8S R22W G&SRM	DIVERSION	31	28	62	60	68	39	22	0	0	0	0	0	310 2/
1 WELL SE SW SW SEC 19 T8S R22W G&SRM	DIVERSION	53	48	39	35	41	21	41	38	41	21	19	41	438 2/
CAMERON BROS. 2 WELLS SE NE SW SEC 24 T8S R22W G&SRM	DIVERSION	10	40	46	23	101	81	27	2	78	3	0	0	411 2/
HARP, R. 1 WELL SE NE NE SEC 13 T8S R23W G&SRM	DIVERSION													1450

DIVERSIONS FROM MAIN 1-AVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SUCH WATER
CALENDAR YEAR 1983
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/
VINKASOYICH														
1 WELL SE NE SW SEC 24 T8S R22W GSRM	DIVERSION	0	0	1	1	6	0	0	5	4	2	3	1	23 2/
1 WELL SW SW SE SEC 24 T8S R22W GSRM	DIVERSION	30	14	14	123	73	64	39	0	0	6	9	8	380 2/
SUNKIST OF YUMA														
1 WELL NE SE SW SEC 23 T8S R23W GSRM	DIVERSION	17	16	16	207	144	23	0	0	0	0	67	12	502 2/
STANFORD, R. L.														
1 WELL SW SE SE SEC 22 T8S R22W GSRM	DIVERSION	0	0	0	0	49	45	31	13	0	0	0	0	138 2/
MUNHALEY (G. RUSSELL)														
1 WELL NE SE SW SEC 28 T16S R22E SBM	DIVERSION	0	34	1	4	0	26	36	32	10	12	0	0	155 2/
CHRITS, A. (JENNINGS, A.)														
1 PUMP SW NE SE SEC 29 T16S R22E SBM	DIVERSION	0	7	0	8	5	5	0	0	5	0	0	0	30 2/
POWER, JIM														
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

DIVERSIONS FROM MAIN AVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SUCH WATER
CALENDAR YEAR 1983
STATE OF ARIZONA

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SUPPLEMENTAL SHEETS

(ACRE-FEET) SHEET 4 OF 4

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS 1/
HALL, ANSIL 1 PUMP NW SW NW SEC 36 T16S R21E SBM	DIVERSION													480
ARIZONA SUBTOTALS	DIVERSION 3/	689	808	1626	2510	2339	2621	3058	1922	1310	557	477	361	18278
IMPERIAL DAM TO INTERNATIONAL BOUNDARY	DIVERSION 4/	371	435	878	1360	1261	1413	1649	1036	706	300	257	194	9858
ARIZONA TOTALS	DIVERSION	1359	1568	2806	4753	4267	4939	5737	4055	2262	905	734	555	34020

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.

DIVERSIONS FROM MAIN AVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SUCH WATER
CALENDAR YEAR 1983
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	757	902	1843	3334	2408	2579	1304	1851	2760	2359	2102	153	22352
CITY OF NEEDLES 4 WELLS NW SW SEC 29 19N R23E S0M	DIVERSION RETURN CONSUMPTIVE USE	126 51 75	114 40 74	127 53 74	209 62 147	324 80 244	447 108 339	460 117 343	336 103 233	329 96 233	171 70 101	162 38 124	112 39 73	2917 857 2060
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	80216 350 79866	29125 299 28826	40396 337 40059	59939 305 59634	53189 285 52904	66980 281 66699	100577 300 100277	102415 266 102149	100355 307 100048	93407 318 93089	99509 311 99198	81456 338 81118	907564 3697 903867
PARKER DAM AND GOVERNMENT CAMP DIVERSION AT PARKER DAM	DIVERSION 6/ RETURN CONSUMPTIVE USE	4	3	4	10	18	24	29	18	15	8	6	4	143
COLORADO RIVER INDIAN RESERVATION PUMPED FROM 11 PUMPS AND WELLS 1 WELL-BIG RIVER	DIVERSION 4/ DIVERSION 4/ RETURN CONSUMPTIVE USE	177 74	137 90	404 140	122 126	184 259	33 243	349 293	334 299	365 226	348 231	559 141	418 102	3430 2224
PAID VERDE IRRIGATION DISTRICT DIVERSION FROM PAID VERDE DAM	DIVERSION RETURN CONSUMPTIVE USE	33975 29398 4577	45289 27029 18260	64652 33136 31516	84933 37055 47878	85350 39090 46260	92411 39597 52814	94851 41117 53734	71987 46075 25912	80607 45980 34627	47384 42492 4892	44046 36146 7700	41179 35828 5351	786664 453143 333521

DIVERSIONS FROM M. . . REAM AVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SURF WATER
CALENDAR YEAR 1983
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 DIVERSTON AT IMPERIAL DAM	DIVERSION RETURN CONSUMPTIVE USE	1258	1578	2203	2481	2214	2158	2338	2270	1851	1874	1325	935	22485
YUMA PROJECT RES. DIV. BARD UNIT DIVERSTON AT IMPERIAL DAM	DIVERSION RETURN CONSUMPTIVE USE	2124	2529	3630	4205	4497	5129	5276	3345	2685	2683	2377	2187	40667
RETURNS FROM YUMA PROJECT RESERVATION DIVISION RETURNS	RETURN 2/	1767	1498	2433	1961	1998	416	595	1615	1735	2198	2122	2021	20359
IMPERIAL IRRIGATION DISTRICT DIVERSTON AT IMPERIAL DAM	DIVERSION RETURN CONSUMPTIVE USE	151450	97313	199652	304463	291918	258499	294651	234777	220484	214052	166052	122306	2555817
COACHELLA VALLEY WATER DISTRICT DIVERSTON AT IMPERIAL DAM	DIVERSION RETURN CONSUMPTIVE USE	22521	19018	24657	35736	45643	43981	45354	32365	31773	24893	19096	17229	362266
CITY OF WINTERHAVEN 1 WELL SE SE NE SEC 27 T16S R22E S8M	DIVERSION 6/ RETURN CONSUMPTIVE USE	5	4	6	10	11	15	14	14	12	8	7	7	113
OTHER USERS PUMPING FROM COLORADO RIVER AND HELLS IN FLOOD PLAIN DAVIS DAM TO INTERNATIONAL BOUNDARY	DIVERSION 3/	417	603	1431	1914	2120	2382	2074	2882	1469	761	436	175	16644
CALIFORNIA TOTALS	DIVERSION RETURN CONSUMPTIVE USE	293105 31566 261539	196706 28866 167840	339148 35959 303187	497483 39383 458100	488136 41453 446683	474863 40402 434461	547572 42129 505443	452895 48059 404838	442932 48118 394814	388180 45078 343102	335819 38817 297002	266264 38228 228038	4723101 478056 4245045

- 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.

DIVERIONS FROM MAINTAINABLE AVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SUCH WATER
CALENDAR YEAR 1983
STATE OF CALIFORNIA

V (B)

SUPPLEMENTAL SHEETS

(ACRE-FEET) SHEET 1 OF 3

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	
1 WELL SE NW NE SEC 31 T11N R21E SBM	DIVERSION													960	
BLM PERMITTEES	DIVERSION													158	
SUBTOTALS DAVIS DAM TO IMPERIAL DAM	DIVERSION 4/	231	251	297	683	516	699	796	848	192	37	0	0	4550	
COLE (R. LAND) 1 WELL SW SE SE SEC 35 T15S R23E SBM	DIVERSION													636	
BERRYMAN, HARLEY (LAND, RALPH) 1 WELL NW NW NW SEC 2 T16S R23E SBM	DIVERSION	0	0	130	0	3	0	0	43	0	0	0	0	176	2/
DUKE (P. POWER) 1 PUMP NW SW SW SEC 14 T16S R23E SBM	DIVERSION													1992	
CROME, JAMES 1 WELL NE SE SW SEC 6 T8S R22W G&SRM	DIVERSION	0	0	133	0	4	77	97	144	13	0	0	0	468	2/

DIVERSIONS FROM MAIN. 1-AVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SUCH WATER
CALENDAR YEAR 1983
STATE OF CALIFORNIA

V (B)

SUPPLEMENTAL SHEETS

(ACRE-FEET) SHEET 2 OF 3

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS 1/
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	56	0	0	65	33	60	0	0	0	0	214 2/
MARTIN, M. (A. DEES) 1 PUMP SE NE NW SEC 1 T8S R23W G&SRM	DIVERSION	0	2	0	8	0	0	12	7	0	0	0	0	29 2/
SCHAFFER, F. (R. HARP) 1 WELL SW SE NE SEC 2 T8S R23W G&SRM	DIVERSION	0	0	50	37	87	52	0	0	0	0	0	0	226 2/
WILSON (R. HARP) 1 WELL NE NW NW SEC 12 T8S R23W G&SRM	DIVERSION	0	5	14	14	16	22	22	44	22	19	14	3	195 2/
CROME, JAMES 1 WELL SW SW SE SEC 1 T8S R23W G&SRM	DIVERSION	0	0	0	25	0	0	27	30	0	0	0	0	82 2/
DEES, JOHN 1 WELL SE NE SE SEC 1 T8S R23W G&SRM	DIVERSION	63	116	128	17	518	322	410	368	255	272	82	46	2597 2/

DIVERSIONS FROM MAIN, ... AVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SUCH WATER
CALENDAR YEAR 1983
STATE OF CALIFORNIA

V (B)

SUPPLEMENTAL SHEETS

(ACRE-FEET) SHEET 3 OF 3

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS 1/
EVANS, E. (R. HARP) 1 WELL SE NE NE SEC 12 T8S R23M G8SBM	DIVERSION	0	0	0	162	32	0	77	0	229	0	0	0	500 2/
HARP R. 1 WELL SW NE SE SEC 12 T8S R23M G8SRM	DIVERSION													882
EASTFRDAY, KENNETH 1 WELL NW SE SW SEC 12 T8S R23M G8SRM	DIVERSION	54	70	145	180	264	237	88	155	60	128	141	56	1578 2/
SMITH, F. (P. POWER) 1 WELL NE SW SE SEC 11 T8S R23M G8SRM	DIVERSION	0	31	67	335	98	284	46	444	227	36	36	0	1604 2/
MUSGRAVE (BARKLEY COMPANY) 1 WELL NE SE SW SEC 19 T16S R23E SBM	DIVERSION	2	1	2	4	3	4	5	5	10	8	6	7	57 2/
CALIFORNIA SUBTOTALS	DIVERSION 3/	119	225	725	782	1025	1063	817	1300	816	463	279	112	7726
IMPERIAL DAM TO INTERNATIONAL BOUNDARY	DIVERSION 4/	67	127	409	449	579	600	461	734	461	261	157	63	4368
CALIFORNIA TOTALS	DIVERSION	417	603	1431	1914	2120	2362	2074	2882	1469	761	436	175	16644

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 MAINLINE AVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SUCH WATER
CALENDAR YEAR 1983
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/
HOOVER DAM DIVERSION AT HOOVER DAM	DIVERSION RETURN CONSUMPTIVE USE	0	0	0	1	0	0	0	1	0	0	0	1	3
BOULDER CITY DIVERSION AT SADDLE ISLAND, LAKE MEAD	DIVERSION 2/ RETURN CONSUMPTIVE USE	195	167	283	340	567	746	786	618	584	441	343	255	5325
LAKE MEAD NATIONAL RECREATION AREA DIVERSION AT LAKE MEAD	DIVERSION RETURN CONSUMPTIVE USE	54	46	51	54	94	137	133	119	121	84	83	76	1052
DIVERSION AT SADDLE ISLAND, LAKE MEAD	DIVERSION 3/ RETURN CONSUMPTIVE USE	2	2	2	4	9	10	9	7	6	4	2	2	59
BASIC MANAGEMENT INC. DIVERSION AT SADDLE ISLAND, LAKE MEAD	DIVERSION RETURN CONSUMPTIVE USE	524	397	522	673	463	572	665	638	675	558	388	447	6522
CITY OF HENDERSON DIVERSION AT SADDLE ISLAND, LAKE MEAD	DIVERSION 2/ RETURN CONSUMPTIVE USE	224	171	292	404	664	990	1091	793	787	415	282	537	6650
DIVERSION AT SADDLE ISLAND, LAKE MEAD	DIVERSION 3/ RETURN CONSUMPTIVE USE	290	286	365	490	507	501	468	405	473	442	355	72	4654
LAS VEGAS VALLEY WATER DISTRICT DIVERSION AT SADDLE ISLAND, LAKE MEAD	DIVERSION 2/ RETURN CONSUMPTIVE USE	5994	6223	7507	8626	11014	12507	13159	10014	10330	8319	5980	4957	104710
NEVADA STATE DEPARTMENT OF FISH AND GAME DIVERSION AT SADDLE ISLAND, LAKE MEAD	DIVERSION RETURN CONSUMPTIVE USE	375 375 0	340 340 0	376 376 0	358 358 0	355 355 0	350 349 1	349 348 1	380 379 1	377 377 0	389 389 0	385 384 1	383 383 0	4417 4413 4

DIVERIONS FROM MAINS. . . AVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SUCH WATER
CALENDAR YEAR 1983
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/
PACIFIC COAST BUILDING PRODUCTS INC. DIVERION AT GYPSUM WASH, LAKE MEAD	DIVERION RETURN CONSUMPTIVE USE	46	45	49	51	48	47	28	55	53	47	67	74	610
CITY OF NORTH LAS VEGAS DIVERION AT SADDLE ISLAND, LAKE MEAD	DIVERION 2/ RETURN CONSUMPTIVE USE	467	330	455	448	672	798	1306	965	1135	814	634	710	8734
NELLIS AIR FORCE BASE DIVERION AT SADDLE ISLAND, LAKE MEAD	DIVERION 2/ RETURN CONSUMPTIVE USE	35	54	199	206	250	249	194	182	184	165	155	103	1976
SOUTHERN CALIFORNIA EDISON COMPANY PUMPED FROM SEC 24 T32S R66E MDB&M	DIVERION RETURN CONSUMPTIVE USE	791	858	902	851	1620	1600	1602	1538	1586	748	1117	1463	14676
CLARK COUNTY PARKS & RECREATION DEPT. 1 PUMP SEC 1 T32S R66E MDB&M	DIVERION 4/ RETURN CONSUMPTIVE USE													6
WIEBKE, ARMIN T. 1 PUMP SEC 33 T32S R66E MDB&M	DIVERION 4/ RETURN CONSUMPTIVE USE													8
PORTENIER, WARREN E. 1 PUMP SEC 33 T32S R66E MDB&M	DIVERION 4/ RETURN CONSUMPTIVE USE													42
MELLES, JOHN C. 1 PUMP SEC 33 T32S R66E MDB&M	DIVERION 4/ RETURN CONSUMPTIVE USE													8
KNIGHT, JOHN B. 1 PUMP SEC 33 T32S R66E MDB&M	DIVERION 4/ RETURN CONSUMPTIVE USE													1

DIVERSIONS FROM MAINS, UNAVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SUCH WATER
CALENDAR YEAR 1983
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/
BOY SCOUTS OF AMERICA 1 PUMP SEC 5 T33S R66E M0B&M	DIVERSION 4/ RETURN CONSUMPTIVE USE													5
LAS VEGAS WASH RETURNS	RETURN 6/	5627	5346	5766	6333	6085	5468	5662	5741	5755	6472	4804	5390	68449
NEVADA TOTALS	DIVERSION RETURN CONSUMPTIVE USE	8997 6002 2995	8919 5686 3233	11003 6142 4861	12506 6691 5815	16263 6440 9823	18587 5817 12770	19790 6010 13780	15715 6120 9595	16311 6132 10179	12426 6861 5565	9791 5188 4603	9080 5773 3307	159458 5/ 72862 86596 5/

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

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 1983

The following tabulations for calendar year 1983 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 in Nevada. The storage capacity of Lake Mead is so large in relation to the present daily diversions from the reservoir by Nevada that any "water ordered but not diverted" would be retained for future use and would have no significant effect on scheduling of daily operations of the reservoir.

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

V(C)

AND
QUANTITY OF SUCH WATER DELIVERED TO MEXICO IN SATISFACTION OF MEXICAN TREATY OR DIVERTED BY OTHERS
CALENDAR YEAR 1983
STATE OF ARIZONA

(ACRE-FEET) SHEET 1 OF 3

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
COLD RIVER INDIAN RESERVATION DIVERSION AT HEADGATE ROCK	ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	2210	323	1012	573	1565	883	1022	857	3299	389	1333	758	14224
	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	391	38	250	0	327	179	20	0	813	8	48	91	2165
		1819	285	762	573	1238	704	1002	857	2486	381	1285	667	12659
YUMA PROVING GROUND U.S. ARMY DIVERSION AT IMPERIAL DAM 1/	ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	0	0	0	0	0	0	0	0	0	0	0	0	0
	DIVERTED BY OTHERS	0	0	0	0	0	0	0	0	0	0	0	0	0
	DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
NORTH GILA VALLEY I. D. DIVERSION AT IMPERIAL DAM	ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	962	1230	998	813	881	1045	1517	1535	952	383	781	1234	12331
	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	73	91	180	212	262	458	367	182	430	101	186	141	2683
		889	1139	717	601	619	587	1150	1353	522	282	595	1093	9547
MARREN ACT CONTRACTORS GILA PROJECT DISTRICTS DIVERSION AT IMPERIAL DAM 1/	ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	0	0	0	0	0	0	0	0	0	0	0	0	0
	DIVERTED BY OTHERS	0	0	0	0	0	0	0	0	0	0	0	0	0
	DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
MELLTON-MOHAWK I. & D. DISTRICT DIVERSION AT IMPERIAL DAM	ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	8232	5020	7283	6702	4459	4881	8573	17877	9249	4052	4391	9674	90393
	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	1285	553	520	750	1000	932	2146	1164	2273	920	589	821	12953
		6947	4467	5968	5952	3459	3949	6427	16713	6976	3132	3802	8853	76645

RELEASE OF MAINSTREAM WATER PURSUANT TO ORDERS
BUT NOT DIVERTED BY PARTY ORDERING SAME
AND
QUANTITY OF SUCH WATER DELIVERED TO MEXICO IN SATISFACTION OF MEXICAN TREATY OR DIVERTED BY OTHERS
CALENDAR YEAR 1983
STATE OF ARIZONA

V (C)

(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	543	914	835	510	399	912	486	1230	270	226	932	948	8205
	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	75	111	190	127	214	325	83	10	61	56	139	65	1456
		468	803	556	383	185	587	403	1220	209	170	793	883	6660
YUMA MESA I. & D. DISTRICT DIVERSION AT IMPERIAL DAM	ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	3158	3146	1674	2525	2007	1265	760	6220	2202	5010	3023	3600	34590
	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	232	323	440	307	365	655	97	89	589	914	512	359	4882
		2926	2823	968	2218	1642	610	663	6131	1613	4096	2511	3241	29442
UNIT "B" I. & D. DISTRICT DIVERSION AT IMPERIAL DAM	ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	232	246	327	244	224	331	246	1186	250	625	119	456	4486
	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	28	42	129	34	24	157	54	30	93	163	14	48	816
		204	204	184	210	200	174	192	1156	157	462	105	408	3656
CITY OF YUMA DIVERSION AT IMPERIAL DAM	ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	0	0	0	0	0	0	72	418	25	95	38	73	721
	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	20	54	18	40	23	31	186
		0	0	0	0	0	0	52	364	7	55	15	42	535
YUMA COUNTY WATER USERS ASSN. DIVERSION AT IMPERIAL DAM	ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	3166	2061	3028	2655	3506	1679	3476	3991	516	1762	2326	3422	31588
	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	714	641	762	1152	1075	843	962	518	374	740	1405	1431	10617
		2452	1420	1812	1503	2431	836	2514	3473	142	1022	921	1991	20517

RELEASE OF MAINSTREAM WATER PURSUANT TO ORDERS
 BUT NOT DIVERTED BY PARTY ORDERING SAME
 AND
 QUANTITY OF SUCH WATER DELIVERED TO MEXICO IN SATISFACTION OF MEXICAN TREATY OR DIVERTED BY OTHERS
 CALENDAR YEAR 1983
 STATE OF ARIZONA

V (C)

(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	1	1	13	7	20	22	2	0	0	0	80
	DELIVERED TO MEXICO IN													
	SATISFACTION OF TREATY	0	0	0	0	0	0	0	0	0	0	0	0	0
	DIVERTED BY OTHERS	0	4	0	0	4	4	6	3	1	0	0	0	22
ARIZONA TOTALS	DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	0	10	1	1	9	3	14	19	1	0	0	0	58
	ORDERED BUT NOT DIVERTED	18503	12954	15158	14023	13054	11003	16172	33336	16765	12542	12943	20165	196618
	DELIVERED TO MEXICO IN													
	SATISFACTION OF TREATY	0	0	0	0	0	0	0	0	0	0	0	0	0
	DIVERTED BY OTHERS	2798	1803	2471	2582	3271	3553	3755	2050	4652	2942	2916	2987	35780
	DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	15705	11151	10968	11441	9783	7450	12417	31286	12113	9600	10027	17178	159119
	ORDERED BUT NOT DIVERTED	0	0	1719	0	0	0	0	0	0	0	0	0	1719
	DELIVERED TO MEXICO IN EXCESS OF TREATY													

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

RELEASE OF MAINSTREAM WATER PURSUANT TO ORDERS
BUT NOT DIVERTED BY PARTY ORDERING SAME
AND
QUANTITY OF SUCH WATER DELIVERED TO MEXICO IN SATISFACTION OF MEXICAN TREATY OR DIVERTED BY OTHERS
CALENDAR YEAR 1983
STATE OF CALIFORNIA

V (C)

(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	2097	2612	2632	341	593	2235	1242	7222	1224	746	1349	1051	23344
	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	405	532	623	77	169	1146	407	1714	149	448	486	220	6376
		1692	2080	1128	264	424	1089	835	5508	1075	298	863	831	16087
CALIFORNIA TOTALS	ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	17633	20606	21734	30663	10233	16670	25820	57518	22277	17545	16968	14030	271697
	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	2397	3877	2828	3955	2966	5938	5699	5927	4255	5010	2839	1863	47554
		15236	16729	14185	26708	7267	10732	20122	51590	18022	12535	14129	12167	219422

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 1983

DELIVERIES TO MEXICO IN SATISFACTION OF PART III OF 1944 TREATY
AND
WATER PASSING TO MEXICO IN EXCESS OF TREATY REQUIREMENTS
CALENDAR YEAR 1983

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 1/	64057	107506	230382	256382	132133	153054	173674	184881	124459	68100	68100	137272	1700000
PASSING TO MEXICO IN EXCESS OF TREATY REQUIREMENTS 2/ 3/	597506	223530	20376	289563	558637	884314	1722338	1855140	1757854	1927177	1487589	1344789	12668813

1/ INCLUDES 179, 157 ACRE-FEET DELIVERED PURSUANT TO MINUTE 242.

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

3/ INCLUDES PAINTED ROCK DAM AND HOOVER DAM FLOOD CONTROL RELEASES.

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 1983

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 1983

V (E)

(ACRE-FEET)

WATER USER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
GILA RIVER													0
													0
SAN FRANCISCO RIVER													0
													0