

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

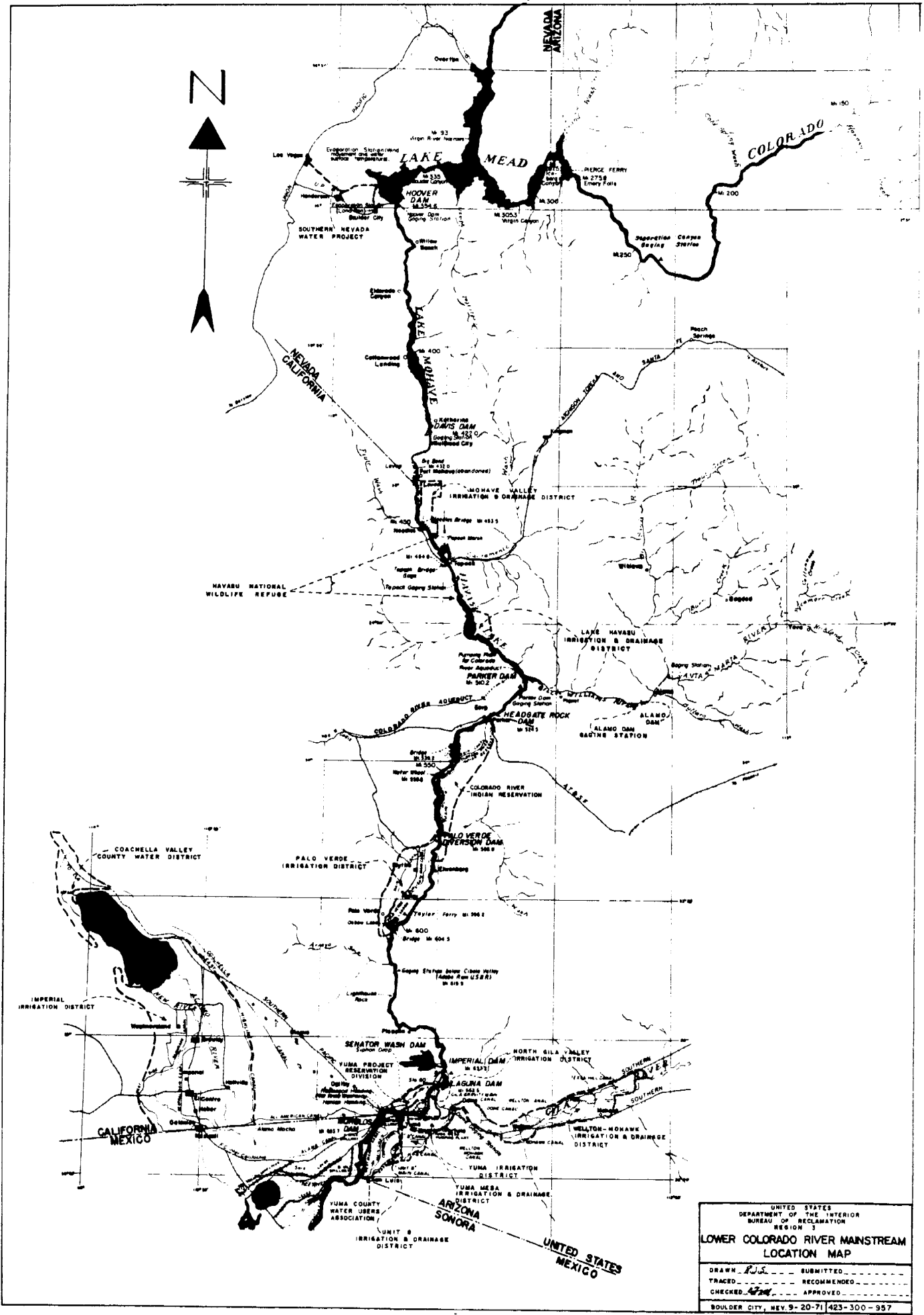
CALENDAR YEAR 1983

Division of Water and Land Operations
Boulder City, Nevada

April 1985

CONTENTS

	<u>Page</u>
Location Map (Drawing No. 423-300-957)	Frontispiece
V(A) Releases of Water Through Regulatory Structures ..	1
Controlled by the United States	3
V(B) Mainstream Diversions, Return Flows, and	
Consumptive Use	4
Arizona	6
Other Arizona Users	12
California	16
Other California Users	19
Nevada	22
V(C) Water Ordered but not Diverted	25
Arizona	27
California	30
V(D) Deliveries of Water to Mexico	32
V(E) Diversions and Use for Gila National Forest	34



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

DRAWN *R.W.S.* SUBMITTED _____
 TRACED _____ RECOMMENDED _____
 CHECKED *ATM* 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 "Diversion 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)												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
HOOVER DAM	1176000	364700	633500	1060000	1216000	1886000	2574000	2422000	2187000	2106000	1750000	1692000	19070000
DAVIS DAM	1127000	438700	579000	1161000	1248000	1741000	2670000	2494000	2356000	2286000	1714000	1562000	19380000
PARKER DAM	1007000	401700	581400	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	928300	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.

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

V (B)

(ACRE FEET) SHEET 1 OF 5

FINAL RECORDS

WATER USER	ACRE FEET												TOTALS 1/	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
LAKE MEAD NATIONAL RECREATION AREA DIVERSTION FROM LAKE MOHAVE	16	14	13	19	28	30	30	30	21	24	22	17	15	249
DIVERSTION RETURN CONSUMPTIVE USE														
DAVIS DAM AND GOVERNMENT CAMP DIVERSTION AT DAVIS DAM	7	6	7	16	30	39	49	49	30	26	14	10	7	241
DIVERSTION RETURN CONSUMPTIVE USE														
MOHAVE WATER CONSERVATION DISTRICT PUMPED FROM HELLS	4	3	4	4	6	7	8	8	8	7	5	4	4	62
DIVERSTION RETURN CONSUMPTIVE USE														
MOHAVE VALLEY I. & D. DISTRICT PUMPED FROM HELLS AND DIVERTED FROM INLET CHANNEL TO HAVASU REFUGE	984	1097	1870	2678	3197	2803	3820	3689	3689	2873	1229	1265	567	26182
DIVERSTION RETURN CONSUMPTIVE USE														
FORT MOHAVE INDIAN RESERVATION 9 PUMPS AND HELLS IN FLOOD PLAIN	1588	1905	3893	7042	5087	5449	2755	3911	0	5831	4984	4440	324	47220
DIVERSTION RETURN CONSUMPTIVE USE														
HAVASU NATIONAL WILDLIFE REFUGE INLET NW NE NW SEC 33 T9N R22W G85RM	6091	1139	1262	2567	4330	6280	0	0	0	0	0	0	0	21669
DIVERSTION RETURN CONSUMPTIVE USE														
LAKE HAVASU IRRIGATION AND DRAINAGE DISTRICT PUMPED FROM HELLS	476	427	495	621	851	994	1110	824	824	797	705	604	545	8449
DIVERSTION RETURN CONSUMPTIVE USE														
CONSOLIDATED WATER UTILITIES LTD. PUMPED FROM RIVER	18	17	20	24	31	32	36	29	29	26	22	21	17	293
DIVERSTION RETURN CONSUMPTIVE USE														
TOWN OF PARKER 1 WELL NW NW NW SEC 7 19N R19W G85RM	46	47	59	80	91	97	103	81	81	82	70	50	43	851
DIVERSTION RETURN CONSUMPTIVE USE														

DIVERIONS FROM MAINSTREAM-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

MATER USER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
COLORADO RIVER INDIAN RESERVATION													
DIVERION AT HEARGATE ROCK DAM	10872	29175	38044	62052	61379	73092	77436	48776	52481	33271	28618	24312	539518
PUMPED FROM 2 WELLS IN PARKER	0	4	5	16	21	18	18	12	8	10	3	0	116
SW NE SE SEC 2 19M R21M GSRM													
4 WELLS IN POSTON	1	3	0	0	0	0	0	0	0	0	0	0	4
NW SEC 36 18M R21M GSRM													
3 PUMPS	351	312	473	300	723	805	984	574	784	522	537	86	6461
NE SW NW SEC 14-14M R22M GSRM													
RETURN	13673	15128	18138	22285	21266	24785	31582	25731	23751	26027	22780	21640	266786
CONSUMPTIVE USE	-2449	14166	20385	40083	40857	49130	46856	23631	29542	7776	6368	2758	279303
EHRENBURG IMPROVEMENT ASSN.													
1 PUMP SW SEC 3 13M R22M GSRM	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	581	654	2085	1618	902	1487	2069	869	1156	470	219	35	12145
1 IN R23M GSRM													
RETURN													
CONSUMPTIVE USE													
CIBOLA NATIONAL WILDLIFE REFUGE													
3 PUMPS	36	83	217	956	938	988	952	688	653	431	431	119	6502
RETURN													
CONSUMPTIVE USE													
IMPERIAL NATIONAL WILDLIFE REFUGE													
2 WELLS SEC 13 15S R22M GSRM	1	1	2	3	3	3	3	3	3	2	1	1	26
RETURN													
CONSUMPTIVE USE													
YUMA PROVING GROUND													
DIVERION AT IMPERIAL DAM	3	0	2	0	0	0	0	0	0	2	1	0	8
RETURN													
CONSUMPTIVE USE													
HARREN ACT CONTRACTORS													
DIVERION AT IMPERIAL DAM	108	33	381	32	113	12	80	0	174	419	346	129	1825
RETURN													
CONSUMPTIVE USE													

DIVERSIONS FROM MAINSTREAM-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
CAMILLE, ALEC. JR. DIVERSION AT IMPERIAL DAM	✓	1	1	2	3	3	4	4	3	3	2	2	1	29
✓	DIVERSION RETURN CONSUMPTIVE USE													
DESERT LAWN MEMORIAL DIVERSION AT IMPERIAL DAM	✓	6	6	13	19	19	25	26	19	18	12	11	6	180
✓	DIVERSION RETURN CONSUMPTIVE USE													
NORTH GILA VALLEY IRRIGATION DISTRICT DIVERSION AT IMPERIAL DAM B/	✓	2842	2952	4238	4386	5446	5097	4187	2177	1984	2508	2859	2046	40742
		815	709	845	213	948	857	786	1066	1173	1179	1118	1218	11437
		2927	2243	3383	3663	4498	4240	3391	1111	821	1328	1741	828	29305
✓	DIVERSION RETURN CONSUMPTIVE USE													
YUMA IRRIGATION DISTRICT DIVERSION AT IMPERIAL DAM B/ PUMPED FROM PRIVATE WELLS	✓	3211	2964	3723	4426	6797	5678	6272	3940	6683	4792	3795	3441	55732
		767	718	1084	853	1086	1164	1303	1040	1668	589	511	604	11327
		86	78	73	133	269	311	528	575	519	413	384	315	3685
		3832	3604	4734	5156	7614	6531	7046	4405	7832	4968	3922	3730	63374
✓	DIVERSION RETURN CONSUMPTIVE USE													
YUMA MESA T. & D. DISTRICT DIVERSION AT IMPERIAL DAM B/	✓	9430	7979	14510	17181	23380	25477	27699	18797	24177	13712	13554	7158	203034
		1252	1518	1740	1737	1746	1107	1226	1378	1394	1352	1584	1908	17940
		8178	6461	12776	15424	21634	24370	26473	17419	22783	12360	11970	5252	165094
✓	DIVERSION RETURN CONSUMPTIVE USE													
PUMPED FROM SOUTH GILA WELLS B/	✓	4216	4356	5620	6141	6695	6121	5892	4232	5662	4204	4937	5247	63323
✓	RETURN 4/													
UNMEASURED RETURNS YUMA MESA DIVISION	✓	1529	1537	2132	2291	3021	2732	2469	1379	1693	1624	1618	1259	23284
✓	RETURN 8/													
UNIT "B" I. & D. DISTRICT DIVERSION AT IMPERIAL DAM B/8C/	✓	1583	1103	2104	2211	3576	3916	3887	3040	3361	2083	1808	1358	30031
		221	268	306	307	308	195	216	243	246	239	280	338	3167
		1362	835	1798	1904	3268	3721	3671	2797	3115	1844	1529	1020	26864
✓	DIVERSION RETURN CONSUMPTIVE USE													

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

V (B)

(ACRE-FEET) SHEET 5 OF 5

FINAL RECORDS

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	13162	13236	23458	26381	23738	23900	31304	21044	25330	21224	16362	12838	251955
PUMPED FROM HELLS BE/	970	715	916	1078	891	1063	990	831	910	1062	899	999	11418
RETURN	6411	5780	7221	7071	7007	6514	7986	7891	8845	10316	9813	9648	94604
CONSUMPTIVE USE	7721	8171	17145	20368	17722	18449	24308	13984	17395	11970	7348	4188	168769 4
COCOPAH INDIAN RESERVATION													
DIVERSION AT IMPERIAL DAM	0	104	10	11	111	124	207	135	84	1	3	0	790
PUMPED FROM HELLS BE/	0	6	0	0	5	5	6	5	3	0	0	0	30
RETURN													
CONSUMPTIVE USE													
OTHER USERS PUMPING FROM COLORADO RIVER AND HELLS IN FLOOD PLAIN DAVIS DAM TO INTERNATIONAL BOUNDARY	1359	1568	2886	4753	4267	4838	5737	4055	2262	805	734	555	34020
DIVERSION 5/													
RETURN	72528	64007	133388	177694	190952	215408	218480	145593	167499	113243	99057	73722	1691579
CONSUMPTIVE USE	40044	39261	47816	52277	53760	55017	62970	54704	53995	58200	55749	55597	628410
RETURN	32482	44746	85582	125417	137172	160391	155510	90889	113504	55043	43308	18125	1062169
ARIZONA TOTALS													

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/ AND 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 MELLON-MOHAWK DRAINAGE AS NO METHODOLOGY HAS YET BEEN DEVELOPED THEREFOR. SUCH AN EFFORT WILL BE MADE IN FUTURE YEARS, AS DEEMED APPROPRIATE SINCE MELLON-MOHAWK IS NOT ENTITLED TO RETURN CREDIT FOR GILA RIVER WATER. THIS FIGURE INCLUDES 130,785 ACRE-FEET OF MELLON-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.

B/ 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/	299508
PUMPED FROM WELLS	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/	14594
RETURN FLOW PROTECTIVE AND REGULATORY PUMPING UNIT C/	3346
ESTIMATED UNMEASURED GROUND-WATER RETURN FLOW D/	23284
SUBTOTAL RETURN FLOW E/	119669
CONSUMPTIVE USE (SEE NOTE ABOVE)	181166

- (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 117,170 ACRE-FEET WITH BALANCE CREDITED TO 'UNIT B'.
- (C) ESTIMATED AT 85 PERCENT OF PROTECTIVE AND REGULATORY PUMPING UNIT (5,937 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 YUMA AREA. EFFORTS WILL BE MADE TO AT LEAST QUANTIFY THESE RETURN FLOWS WITHIN BROAD LIMITS BY RESPECTIVE WATER USER ENTITIES IN FUTURE YEARS.

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

V (B)

WATER USER	SUPPLEMENTAL SHEETS												DEC TOTALS 1/
	ACRE FEET SHEET 1 OF 4												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
RAYNER, JACK JR 2 PUMPS SW SE SW SEC 34 T4N R22W GSRM	112	122	144	331	210	307	226	299	79	0	0	0	1830 2
1 WELL SW SW SW SEC 34 T4N R22W GSRM	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 GSRM													374
SPRAHL (TODERT, A.) 1 PUMP SE SW NW SEC 21 T1N R23W GSRM													3180
BIM PERMITTEES													126 4
SUBTOTALS DAVIS DAM TO IMPERIAL DAM	112	122	144	331	250	339	386	411	91	18	0	0	2204
	187	203	240	552	417	566	644	686	155	30	0	0	3680
PRATT, LOREN 1 WELL SW NW NE SEC 14 T7S R22W GSRM													60
1 PUMP SE SW NW SEC 14 T7S R22W GSRM													60
DUELM, ARLIN 1 WELL SE SW SW SEC B T8S R22W GSRM				93	4	38	77	0	0	0	0	0	218 2/
COLEY, MARVIN W. 1 WELL SE SW SW SEC 7 T8S R22W GSRM				90	0	53	112	59	53	0	0	0	367 2/

DIVERSTIONS FROM MAINSTREAM-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	DIVERSTIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW AND CONSUMPTIVE USE OF SUCH WATER - CALENDAR YEAR 1983 - STATE OF ARIZONA												DEC TOTALS 1/	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
STURGES, STEVE 9 WELLS SEC 18 T8S R 21M & SEC. 5 13 & 14 T8S R22M GBSRM	537	607	1320	1816	1822	2224	2672	1764	1118	513	378	299	15072	2/
YONEJMAN, R. 1 WELL NW SW SW SEC 17 T8S R22M GBSRM													720	
BANKLEY COMPANY 1 WELL SE NW SW SEC 18 T8S R22M GBSRM	11	8	127	50	26	2	1	9	0	0	0	0	234	2/
AUZA, PETE 1 PUMP SE SE NE SEC 24 T8S R23M GBSRM													1590	
1 WELL SE SE SE SEC 18 T8S R22M GBSRM													1590	
OIT, JUDD I. 1 WELL NW NE NW SEC 30 T8S R22M GBSRM	31	28	62	60	68	39	22	0	0	0	0	0	310	2/
1 WELL SE SW SW SEC 19 T8S R22M GBSRM	53	48	38	35	41	21	41	38	41	21	18	41	438	2/
CAMERON BROS. 2 WELLS SE NE SW SEC 24 T8S R22M GBSRM	10	40	46	23	101	81	27	2	78	3	0	0	411	2/
HARP, R. 1 WELL SE NE NE SEC 13 T8S R23M GBSRM													1458	

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

SUPPLEMENTAL SHEETS

(ACRE-FEET) SHEET 3 OF 4

WATER USER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS 1/
VINKASOVICH 1 WELL SE NE SW SEC 24 T8S R22W G&SRM	0	0	1	1	6	0	0	5	4	2	3	1	23 2/
DIVERSTION													
DIVERSTION	30	14	14	123	73	64	39	0	0	6	9	8	380 2/
DIVERSTION													
SUNKIST OF YUMA 1 WELL NE SE SW SEC 23 T8S R23W G&SRM	17	16	16	207	144	23	0	0	0	0	67	12	502 2/
DIVERSTION													
DIVERSTION	0	0	0	0	49	45	31	13	0	0	0	0	138 2/
DIVERSTION													
MUNNALEY (G. RUSSELL) 1 WELL NE SE SW SEC 28 T16S R22E SBM	0	34	1	4	0	26	36	32	10	12	0	0	155 2/
DIVERSTION													
DIVERSTION	0	7	0	8	5	5	0	0	5	0	0	0	30 2/
DIVERSTION													
POMER, JIM 1 PUMP SW SW NE SEC 30 T16S R22E SBM													1980
DIVERSTION													
POMER, R. E. (P. POMER) 1 PUMP SW SW NE SEC 30 T16S R22E SBM													1920
DIVERSTION													

DIVERIONS FROM MAINSTREAM AVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SUCH WATER
CALENDAR YEAR 1983
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/
HAI L. ANSEL PUMP NH SH NW SEC 36 T16S R21E SBN													480
ARIZONA SUBTOTALS	689	808	1626	2510	2339	2621	3058	1922	1310	557	477	361	18278
IMPERIAL DAM TO INTERNATIONAL BOUNDARY	371	435	876	1360	1261	1413	1649	1036	706	300	257	194	9858
ARIZONA TOTALS	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 WERE 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.

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

V (8)

FINAL RECORDS

SHEET 1 OF 2

WATER USER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ACRE FEET	
													TOTALS	1/
FORT MOHAVE INDIAN RESERVATION PUMPED FROM RIVER AND WELLS	757	902	1843	3334	2408	2579	1304	1851	2760	2359	2102	153	22352	
DIVERSION 7/ RETURN CONSUMPTIVE USE														
CITY OF NEEDLES	126	114	127	289	324	447	460	336	329	171	162	112	2917	
4 WELLS NH SM SEC 29 19N R23E S04	51	40	53	82	80	108	117	103	96	70	38	39	857	
CONSUMPTIVE USE														
75	74	74	147	244	339	343	233	233	233	101	124	73	2060	
SAM BERNARDINO COUNTY														
1 WELL	1	1	1	1	1	2	2	2	1	1	1	1	15	
DIVERSION RETURN CONSUMPTIVE USE														
METROPOLITAN WATER DISTRICT	80216	29125	40196	59939	53189	66980	100577	102415	100355	93407	99509	81456	907564	
DIVERSION FROM LAKE HAVASII	350	299	337	305	285	281	300	266	307	318	311	338	3697	
CONSUMPTIVE USE														
79866	28626	40059	59634	52904	66699	100277	102149	100048	93089	99198	81118	903867		
PARKER DAM AND GOVERNMENT CAMP														
DIVERSION AT PARKER DAM	4	3	4	10	18	24	29	18	15	8	6	4	143	
RETURN CONSUMPTIVE USE														
COLORADO RIVER INDIAN RESERVATION	177	137	404	122	184	33	349	334	365	348	559	418	3430	
PUMPED FROM 11 PUMPS AND WELLS	74	90	140	126	259	243	293	299	226	231	141	102	2224	
1 WELL-BIG RIVER														
RETURN CONSUMPTIVE USE														
33975	45289	64652	84933	85350	92411	94851	71987	80607	47384	44046	41179	786664		
29398	27029	33136	37055	39090	39597	41117	46075	45980	42492	36146	35828	453143		
CONSUMPTIVE USE														
4577	18260	31516	47878	46260	52814	53734	25912	34627	4892	7700	5351	333521		

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

FINAL RECORDS

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 DIVERSION AT IMPERIAL DAM	1258	1578	2203	2481	2214	2158	2338	2270	1851	1874	1325	935	22485
DIVERSION RETURN													
CONSUMPTIVE USE													
YUMA PROJECT RES DIV BARD UNIT DIVERSION AT IMPERIAL DAM	2124	2529	3630	4205	4497	5129	5276	3345	2685	2683	2377	2187	40667
DIVERSION RETURN													
CONSUMPTIVE USE													
RETURNS FROM YUMA PROJECT RESERVATION DIVISION RETURNS	1767	1498	2433	1961	1998	416	595	1615	1735	2198	2122	2021	20359
RETURN 2/													
IMPERIAL IRRIGATION DISTRICT DIVERSION AT IMPERIAL DAM	151450	97313	199652	304463	291918	258499	294651	234777	220484	214052	166052	122306	2555617
DIVERSION RETURN													
CONSUMPTIVE USE													
COACHELLA VALLEY WATER DISTRICT DIVERSION AT IMPERIAL DAM	22521	19018	24657	35736	45643	43981	45354	32365	31773	24893	19096	17229	362266
DIVERSION RETURN													
CONSUMPTIVE USE													
CITY OF WINTERHAVEN 1 WELL SE SE NE SEC 27 T16S R22E S8M	5	4	6	10	11	15	14	14	12	8	7	7	113
DIVERSION 6/													
RETURN													
CONSUMPTIVE USE													
OTHER USERS PUMPING FROM COLORADO RIVER AND WELLS IN FLOOD PLAIN DAVIS DAM TO INTERNATIONAL BOUNDARY	417	603	1431	1914	2120	2362	2074	2882	1469	761	436	175	16644
DIVERSION 3/													
RETURN													
CONSUMPTIVE USE													
CALIFORNIA TOTALS	283105	196706	339146	497483	488136	474863	547572	452895	442932	388180	335810	266264	4723101
DIVERSION RETURN													
CONSUMPTIVE USE													
	31566	28866	35958	39383	41453	40402	42129	46059	48118	45078	38817	38226	478056
DIVERSION RETURN													
CONSUMPTIVE USE													
	261539	167840	303187	458100	446683	434461	505443	404836	394814	343102	297002	228038	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 GARD 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 PNEUMOPHYTE 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 MAINSTREAM AVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SUCH WATER
CALENDAR YEAR 1983
STATE OF CALIFORNIA

V(B)

(ACRE FEET) SHEET 1 OF 3

SUPPLEMENTAL SHEETS

WATER USER	(ACRE FEET) SHEET 1 OF 3												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SFP	OCT	NOV	DEC	TOTALS 1/
SOTO BROTHERS 1 WELL SM NE SE SEC 36 T11N R22E SBM													1512
DEASON, RICHARD (IRI-STATE) 1 WELL NW NE NW SEC 31 T11N R22E SBM													1200
1 WELL SE NE SW SEC 36 T11N R21E SBM													720
1 WELL SE NW NE SEC 31 T11N R21E SBM													960
BIM PERMITTEES													158
SUBTOTALS DAVIS DAM TO IMPERIAL DAM	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													636
BERRYMAN, HARLEY (LAND, RALPH) 1 WELL NW NW NW SEC 2 T16S R23E SBM													176 2/
DUNE (P. POWER) 1 PUMP NW SW SW SEC 14 T16S R23E SBM													1992
CROME, JAMES 1 WELL NE SE SW SEC 6 T8S R22W G&SRM													468 2/

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

V (8)

SUPPLEMENTAL SHEETS (ACRE-FEET) SHEET 2 OF 3

WATER USER	SUPPLEMENTAL SHEETS												DEC TOTALS 1/	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
BARRETT (R. HARP) 1 WELL SE SW SW SEC 6 T8S R22W GBSRM														856
SPENCER, M 1 WELL SW NE SW SEC 9 T16S R23E GASRM	0	0	56	0	0	65	33	60	0	0	0	0	0	214 2/
MARTIN, M. (A. DEES) 1 PUMP SE NE NW SEC 1 T8S R23W GBSRM	0	2	0	8	0	0	12	7	0	0	0	0	0	29 2/
SCHAEFER, F. (R. HARP) 1 WELL SW SE NE SEC 2 T8S R23W GBSRM	0	0	50	37	87	52	0	0	0	0	0	0	0	226 2/
HILSON (R. HARP) 1 WELL NE NW NW SEC 12 T8S R23W GASRM	0	5	14	14	16	22	22	44	22	19	14	3	0	195 2/
CROME, JAMES 1 WELL SW SW SE SEC 1 T8S R23W GASRM	0	0	0	25	0	0	27	30	0	0	0	0	0	82 2/
DEES, JOHN 1 WELL SE NE SE SEC 1 T8S R23W GASRM	63	116	128	17	518	322	410	368	255	272	82	46	0	2597 2/

DIVERIONS FROM MAINSTREAM 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 T6S R23W G8SBM	0	0	0	162	32	0	77	0	229	0	0	0	500 2/
HARP R. 1 WELL SW NE SE SEC 12 T6S R23W G8SRM													882
EASTFRDAY, KENNETH 1 WELL NW SE SW SEC 12 T6S R23W G8SRM	54	70	145	180	264	237	88	155	60	128	141	56	1578 2/
SMITH, F. (P. POWERS) 1 WELL NE SW SE SEC 11 T6S R23W G8SRM	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 SBH	2	1	2	4	3	4	5	5	10	8	6	7	57 2/
CALIFORNIA SUBTOTALS INTERNATIONAL DAM TO INTERNATIONAL BOUNDARY	119	225	725	782	1025	1063	817	1300	816	463	279	112	7726
	57	127	409	449	579	600	461	734	461	261	157	63	4368
CALIFORNIA TOTALS	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.

DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SUCH WATER
CALENDAR YEAR 1983
STATE OF NEVADA

V (8)

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	0	0	0	1	0	0	0	1	0	0	0	1	3
DIVERSION RETURN CONSUMPTIVE USE													
BOULDER CITY DIVERSION AT SADDLE ISLAND, LAKE HEAD	195	167	283	340	567	746	786	618	584	441	343	255	5325
DIVERSION 2/ RETURN CONSUMPTIVE USE													
LAKE HEAD NATIONAL RECREATION AREA DIVERSION AT LAKE HEAD	54	46	51	54	94	137	133	119	121	84	83	76	1052
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 HEAD	524	397	522	673	463	572	665	638	675	558	388	447	6522
DIVERSION RETURN CONSUMPTIVE USE													
CITY OF HENDERSON DIVERSION AT SADDLE ISLAND, LAKE HEAD	224	171	282	404	664	890	1091	793	787	415	282	537	6650
DIVERSION 2/ RETURN CONSUMPTIVE USE	290	286	385	480	507	501	468	405	473	442	355	72	4654
LAS VEGAS VALLEY WATER DISTRICT DIVERSION AT SADDLE ISLAND, LAKE HEAD	5994	6223	7507	8626	11014	12587	13159	10014	10330	8319	5980	4857	104710
DIVERSION RETURN CONSUMPTIVE USE													
NEVADA STATE DEPARTMENT OF FISH AND GAME DIVERSION AT SADDLE ISLAND, LAKE HEAD	375	340	376	358	355	350	349	380	377	389	385	383	4417
DIVERSION RETURN CONSUMPTIVE USE	375	340	376	358	355	349	348	379	377	389	384	383	4413
	0	0	0	0	0	1	1	1	0	0	1	0	4

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

V (B)

WATER USER	SHEET 2 OF 3												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS 1/
PACIFIC COAST BUILDING PRODUCTS, INC. DIVERSTION AT GYPSUM WASH. LAKE MEAD	46	45	49	51	48	47	28	55	53	47	67	74	610
DIVERSTION RETURN CONSUMPTIVE USE													
CITY OF NORTH LAS VEGAS DIVERSTION AT SADDLE ISLAND, LAKE MEAD	467	330	455	448	672	798	1306	965	1135	814	634	710	8734
DIVERSTION RETURN CONSUMPTIVE USE													
MELLS AIR FORCE BASE DIVERSTION AT SADDLE ISLAND, LAKE MEAD	35	54	199	206	250	249	194	182	184	165	155	103	1976
DIVERSTION RETURN CONSUMPTIVE USE													
SOUTHERN CALIFORNIA EDISON COMPANY PUMPED FROM SEC. 24 T325 R66E M080M	791	858	902	851	1620	1600	1602	1538	1586	748	1117	1463	14676
DIVERSTION RETURN CONSUMPTIVE USE													
CLARK COUNTY PARKS & RECREATION DEPT. 1 PUMP SEC. 1 T325 R66E M080M													6
DIVERSTION RETURN CONSUMPTIVE USE													
MIEBKE, ARMIN T. 1 PUMP SEC. 33 T325 R66E M080M													8
DIVERSTION RETURN CONSUMPTIVE USE													
PORTENIER, WARREN E. 1 PUMP SEC. 33 T325 R66E M080M													42
DIVERSTION RETURN CONSUMPTIVE USE													
MELLES, JOHN C. 1 PUMP SEC. 33 T325 R66E M080M													8
DIVERSTION RETURN CONSUMPTIVE USE													
KNIGHT, JOHN B. 1 PUMP SEC. 33 T325 R66E M080M													1
DIVERSTION RETURN CONSUMPTIVE USE													

DIVERSTIONS FROM MAINSTREAM-AVAILABLE 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 T335 R66E NDBAM														5
DIVERSTION 4/ RETURN CONSUMPTIVE USE														
LAS VEGAS WASH RETURNS		5627	5346	5766	6333	6085	5468	5662	5741	5755	6472	4804	5390	68449
NEVADA TOTALS		8997	8918	11003	12506	16263	18587	18790	15715	16311	12426	9791	9080	159458 5/
RETURN		6002	5886	6142	6891	6440	5817	6010	6120	6132	6861	5188	5773	72862
CONSUMPTIVE USE		2995	3233	4861	5815	9823	12770	13780	9595	10179	5565	4603	3307	86596 5/

NOTE: THE TERM "CONSUMPTIVE USE" IN THIS TABULATION MEANS MEASURED DIVERSTIONS 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 UNAVAILABILITY 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

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
COLO. RIVER INDIAN RESERVATION DIVERSION AT HEADGATE ROCK	2210	323	1012	573	1565	883	1022	857	3298	389	1333	758	14224
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	391	38	250	0	327	179	20	0	813	8	48	91	2165
DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	1819	285	762	573	1238	704	1002	857	2486	381	1285	667	12059
YUMA PROVING GROUND U. S. ARMY DIVERSION AT IMPERIAL DAM 1/	0	0	0	0	0	0	0	0	0	0	0	0	0
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
NORTH GILA VALLEY I. D. DIVERSION AT IMPERIAL DAM	962	1230	988	813	881	1045	1517	1535	952	383	781	1234	12331
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	73	91	180	212	262	458	367	182	430	101	186	141	2683
DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	889	1139	717	601	619	587	1150	1353	522	282	595	1093	9547
WARREN ACT CONTRACTORS GILA PROJECT DISTRICTS DIVERSION AT IMPERIAL DAM 1/	0	0	101	0	0	0	0	0	0	0	0	0	101
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
WELLTON-MOHAWK I. & D. DISTRICT DIVERSION AT IMPERIAL DAM	8232	5020	7283	6702	4459	4881	8573	17877	9249	4052	4391	9674	90393
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	1285	553	520	750	1000	932	2146	1164	2273	920	589	821	12953
DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	6947	4467	5968	5952	3459	3949	6427	16713	6976	3132	3802	8853	76645
0	0	0	795	0	0	0	0	0	0	0	0	0	795

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

WATER USER	(ACRE-FEET) SHEET 2 OF 3												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
YUMA IRRIGATION DISTRICT DIVERSION AT IMPERIAL DAM	543	914	835	510	399	912	486	1230	270	226	932	948	8205
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	75	111	190	127	214	325	83	10	61	56	139	65	1456
DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	468	803	556	383	185	587	403	1220	209	170	793	883	6660
YUMA MESA I. & D. DISTRICT DIVERSION AT IMPERIAL DAM	3158	3146	1674	2525	2007	1265	760	6220	2202	5010	3023	3600	34590
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	232	323	440	307	365	655	87	89	589	914	512	359	4882
DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	2926	2823	968	2218	1642	610	663	6131	1813	4096	2511	3241	29442
UNIT "B" I. & D. DISTRICT DIVERSION AT IMPERIAL DAM	232	246	327	244	224	331	246	1186	250	625	119	456	4486
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	28	42	129	34	24	157	54	30	93	163	14	48	816
DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	204	204	184	210	200	174	192	1156	157	462	105	408	3656
CITY OF YUMA DIVERSION AT IMPERIAL DAM	0	0	14	0	0	0	0	0	0	0	0	0	14
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
YUMA COUNTY WATER USERS ASSM. DIVERSION AT IMPERIAL DAM	3166	2061	3028	2855	3506	1679	3476	3991	516	1762	2326	3422	31588
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	714	641	762	1152	1075	843	962	518	374	740	1405	1431	10617
DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	2452	1420	1812	1503	2431	836	2514	3473	142	1022	921	1991	20517
YUMA COUNTY WATER USERS ASSM. DIVERSION AT IMPERIAL DAM	0	0	454	0	0	0	0	0	0	0	0	0	454
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

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

(ACRE-FEET) SHEET 3 OF 3

WATER USER	(ACRE-FEET)												TOTALS
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
COCOPAH INDIAN RESERVATION DIVERSION AT IMPERIAL DAM	0	14	1	1	13	7	20	22	2	0	0	0	80
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	4	0	0	4	4	6	3	1	0	0	0	22
DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	0	10	1	1	9	3	14	19	1	0	0	0	58
ARIZONA TOTALS	18503	12954	15158	14023	13054	11003	16172	33336	16765	12542	12943	20165	196618
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	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
ARIZONA TOTALS	0	0	1719	0	0	0	0	0	0	0	0	0	1719

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

WATER USER	(ACRE- FEET) SHEET 1 OF 2												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
METROPOLITAN WATER DISTRICT DIVERSION AT LAKE NAVASO	1294	2451	0	16186	0	0	4013	6855	6145	6263	6691	3754	53652
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 1/ DELIVERED TO MEXICO IN EXCESS OF TREATY	1294	2451	0	16186	0	0	4013	6855	6145	6263	6691	3754	53652
PALO VERDE IRRIGATION DISTRICT DIVERSION AT PALO VERDE DAM	740	1897	1997	6020	1686	1283	8694	7527	3299	4397	1430	1180	40250
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	85	1160	895	2535	752	853	2279	1908	813	1710	591	393	13974
DELIVERED TO STORAGE 1/ DELIVERED TO MEXICO IN EXCESS OF TREATY	855	837	882	3485	934	430	6415	5619	2486	2687	839	787	26056
YUMA PROJECT RESV. DIVISION BARO UNIT DIVERSION AT IMPERIAL DAM	1295	1162	1230	1215	1260	1154	927	1876	789	595	1108	1471	14082
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	408	346	325	224	443	731	154	448	525	423	676	688	5391
DELIVERED TO STORAGE 1/ DELIVERED TO MEXICO IN EXCESS OF TREATY	887	816	815	991	817	423	774	1427	264	172	432	783	8601
YUMA PROJECT RESV. DIVISION INDIAN UNIT DIVERSION AT IMPERIAL DAM	792	590	783	718	642	502	412	1271	538	403	537	620	7808
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	249	175	207	133	225	318	68	304	358	287	326	290	2942
DELIVERED TO STORAGE 1/ DELIVERED TO MEXICO IN EXCESS OF TREATY	543	415	519	585	417	184	344	967	180	116	209	330	4809
IMPERIAL IRRIGATION DISTRICT DIVERSION AT IMPERIAL DAM	11415	11794	15092	6183	6052	11496	10532	32767	10282	5141	5853	5954	132561
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	1250	1664	778	986	1377	2890	2791	1553	2410	2142	758	272	18871
DELIVERED TO STORAGE 1/ DELIVERED TO MEXICO IN EXCESS OF TREATY	10165	10130	10841	5197	4675	8506	7741	31214	7872	2999	5095	5682	110217

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

WATER USER	(ACRE-FEET) SHEET 2 OF 2												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
COACHELLA VALLEY WATER DIST. DIVERSION AT IMPERIAL DAM	2097	2612	2632	341	593	2235	1242	7222	1224	746	1349	1051	23344
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	405	532	623	77	169	1146	407	1714	149	448	486	220	6376
DELIVERED TO STORAGE 1/ DELIVERED TO MEXICO IN EXCESS OF TREATY	1692	2080	1128	264	424	1089	835	5508	1075	298	863	831	16087
CALIFORNIA TOTALS	17633	20606	21734	30663	10233	16670	25820	57518	22277	17545	16968	14030	271697
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	2397	3877	2828	3955	2866	5938	5699	5927	4255	5010	2839	1863	47554
DELIVERED TO STORAGE 1/ DELIVERED TO MEXICO IN EXCESS OF TREATY	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)

WATER USER	(ACRE- FEET)												
	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	1344769	12666813

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

(ACRE-FEET)

V(E)

WATER USER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
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GILA RIVER													
DIVERSION													0
CONSUMPTIVE USE													0

SAN FRANCISCO RIVER													
DIVERSION													0
CONSUMPTIVE USE													0