

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
Donald P. Hodel, Secretary

BUREAU OF RECLAMATION  
C. Dale Duvall  
Commissioner

LOWER COLORADO REGION  
Edward M. Hallenbeck  
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 1984

Division of Water and Land Operations  
Boulder City, Nevada

March 1986

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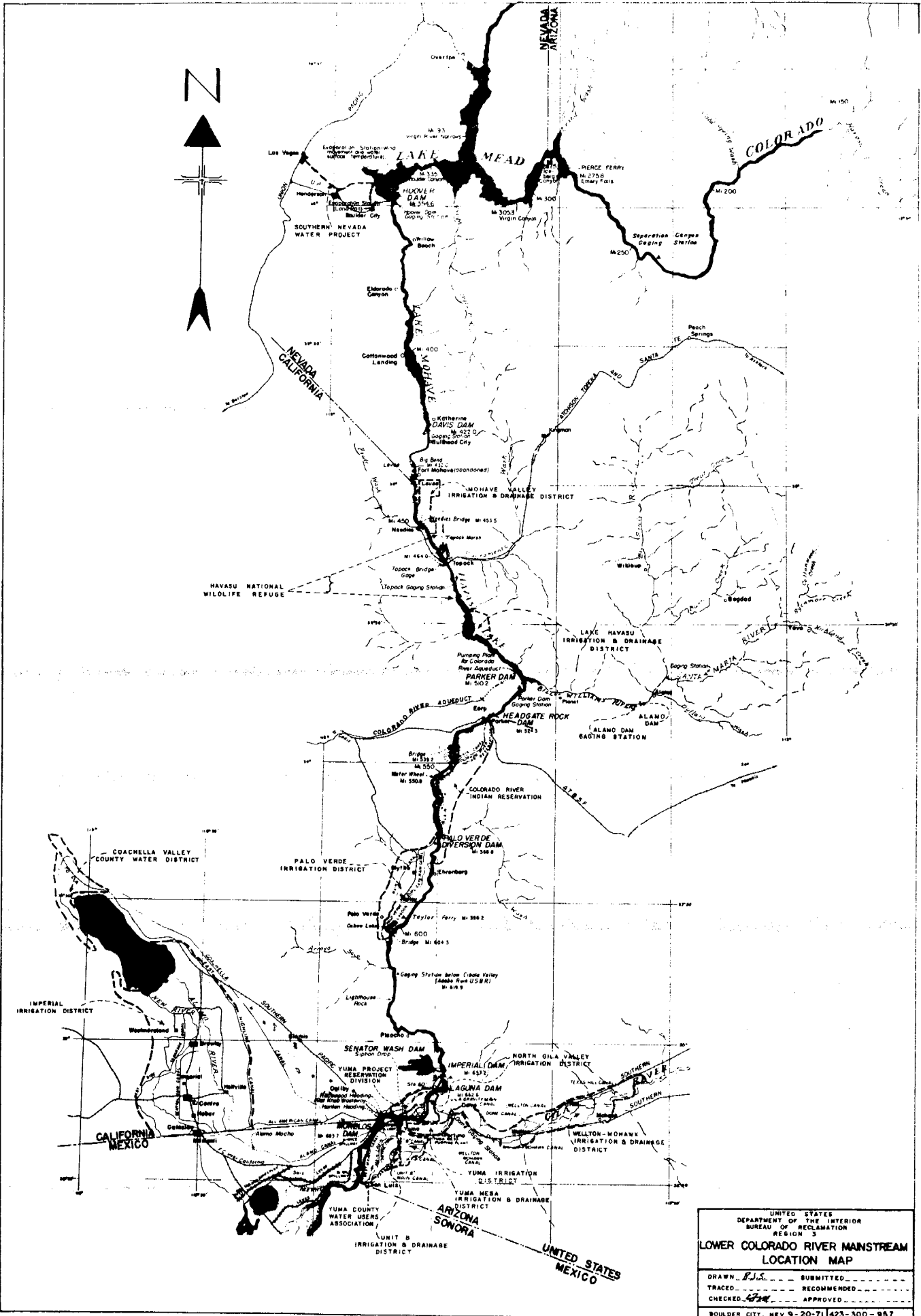
CALENDAR YEAR 1984

Division of Water and Land Operations  
Boulder City, Nevada

March 1986

CONTENTS

	<u>Page</u>
Location Map (Drawing No. 423-300-957) .....	Frontispiece
V(A) Releases of Water Through Regulatory Structures .. Controlled by the United States .....	1
V(B) Mainstream Diversions, Return Flows, and Consumptive Use .....	4
Arizona .....	6
Other Arizona Users .....	12
California .....	15
Other California Users .....	18
Nevada .....	21
V(C) Water Ordered but not Diverted .....	24
Arizona .....	26
California .....	29
V(D) Deliveries of Water to Mexico .....	31
V(E) Diversions and Use for Gila National Forest .....	33



UNITED STATES  
 DEPARTMENT OF THE INTERIOR  
 BUREAU OF RECLAMATION  
 REGION 3

**LOWER COLORADO RIVER MAINSTREAM  
 LOCATION MAP**

DRAWN *R.S.S.* SUBMITTED \_\_\_\_\_  
 TRACED \_\_\_\_\_ RECOMMENDED \_\_\_\_\_  
 CHECKED *W.M.* APPROVED \_\_\_\_\_

BOULDER CITY, NEV. 9-20-71 425-300-957

RECORDS OF RELEASES OF WATER THROUGH  
REGULATORY STRUCTURES IN ACCORDANCE WITH  
ARTICLE V(A) OF THE DECREE OF  
THE SUPREME COURT OF THE UNITED STATES  
IN ARIZONA v. CALIFORNIA DATED MARCH 9, 1964

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CALENDAR YEAR 1984

The following tabulations for calendar year 1984 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 "Divisions for Colorado River Indian Reservation near Parker, Arizona." The diversions are made at Headgate Rock Dam.

RELEASES OF WATER THROUGH REGULATORY STRUCTURES  
 CONTROLLED BY THE UNITED STATES  
 CALENDAR YEAR 1984

V (A)

STRUCTURE	(ACRE-FEET)												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
HOOVER DAM	1888000	1765000	1770000	1564000	1887000	2076000	2185000	1905000	1622000	1588000	1544000	1618000	21412000
DAVIS DAM	1868000	1750000	1773000	1763000	1812000	2071000	2145000	1916000	1750000	1580000	1605000	1624000	21658000
PARKER DAM	1728000	1657000	1741000	1609000	1662000	1932000	2012000	1835000	1688000	1594000	1499000	1527000	20464000
HEADGATE ROCK DAM 1/	1713000	1611000	1678000	1548000	1597000	1853000	1934000	1768000	1617000	1559000	1475000	1524000	19878000
PALO VERDE DAM 2/	1595000	1467000	1530000	1458000	1463000	1674000	1759000	1617000	1470000	1453000	1376000	1469000	18331000
IMPERIAL DAM 3/	903800	854000	805100	742200	689600	894900	1035000	934400	737700	708200	833000	951600	10089500
LAGUNA DAM	948300	895600	845400	750600	688200	901300	1042000	946900	742200	698000	828500	954200	10251000

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

RECORDS OF DIVERSIONS, RETURN FLOWS, AND CONSUMPTIVE USE  
IN ACCORDANCE WITH ARTICLE V(B) OF THE DECREE OF  
THE SUPREME COURT OF THE UNITED STATES IN

ARIZONA v. CALIFORNIA

DATED MARCH 9, 1964

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CALENDAR YEAR 1984



The following tabulations for calendar year 1984 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 wells, 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 1984 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 1984 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 1984  
STATE OF ARIZONA

V (R)

WATER USER	(ACRE-FEET) SHEET 1 OF 5												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS 1/
LAKE HEAD NATIONAL RECREATION AREA DIVERSION FROM LAKE MOHAVE DIVERSION AT DAVIS DAM	15	17	26	31	43	41	42	37	40	37	30	11	370
RETURN	4	10	14	15	16	16	21	14	10	10	7	5	142
CONSUMPTIVE USE													
I. C. R. D. PROJECT (DAVIS DAM) DIVERSION AT DAVIS DAM	2	4	6	6	7	7	9	6	4	4	3	2	60
RETURN													
CONSUMPTIVE USE													
MOHAVE WATER CONSERVATION DISTRICT PUMPED FROM WELLS	5	5	8	10	11	11	10	8	12	11	10	7	108
RETURN													
CONSUMPTIVE USE													
MOHAVE VALLEY I. & D. DISTRICT PUMPED FROM WELLS AND DIVERTED FROM INLET CHANNEL TO HAVASU REFUGE	903	1094	2147	2379	2843	3046	3173	2907	2237	1707	745	315	23496
RETURN													
CONSUMPTIVE USE													
FORT MOHAVE INDIAN RESERVATION 9 PUMPS AND WELLS IN FLOOD PLAIN	2806	1560	2470	4452	6370	5516	6723	5430	4014	2036	0	0	41377
RETURN													
CONSUMPTIVE USE													
HAVASU NATIONAL WILDLIFE REFUGE INLET-NW NE NW SEC 33 19N R22W G&SRM	0	0	0	0	0	0	0	0	0	0	0	0	0
RETURN													
CONSUMPTIVE USE													
LAKE HAVASU IRRIGATION AND DRAINAGE DISTRICT PUMPED FROM WELLS	526	555	721	661	940	995	990	986	833	794	641	443	9085
RETURN													
CONSUMPTIVE USE													
CONSOLIDATED WATER UTILITIES LTD. PUMPED FROM RIVER	17	18	21	24	32	31	32	30	27	23	20	16	291
RETURN													
CONSUMPTIVE USE													

DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1984  
STATE OF ARIZONA

V (B)

(ACRE- FEET) SHEET 2 OF 5

FINAL RECORDS

WATER USER

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS 1/
TOWN OF PARKER 1 WELL-NW NW SEC 7 T9N R19W G&SRM	48	47	59	80	91	97	103	81	82	70	50	43	851
DIVERSION RETURN CONSUMPTIVE USE													
COLORADO RIVER INDIAN RESERVATION DIVERSION AT HEADGATE ROCK DAM PUMPED FROM 2 WELLS IN PARKER SW NE SE SEC 2 T9N R21W G&SRM 4 PUMPS	14714	45791	63101	61197	64569	79042	78297	67302	50843	34717	23348	2696	585617
DIVERSION RETURN CONSUMPTIVE USE	1	1	1	1	1	1	1	0	0	0	0	0	7
DIVERSION 2/	10	12	23	27	26	17	26	20	44	22	11	16	254
RETURN CONSUMPTIVE USE	20494	18733	27900	29748	28027	28243	32849	32168	27900	26150	22359	17860	312431
	-5769	27071	35225	31477	35569	50817	45475	35154	22987	8589	1050	-15148	273447
EHRENBURG IMPROVEMENT ASSN. 1 PUMP SW SEC 3 T3N R22W G&SRM	8	9	10	10	14	15	15	15	15	14	12	8	145
DIVERSION RETURN CONSUMPTIVE USE													
CIBOLA VALLEY IRRIGATION DISTRICT 4 PUMPS SEC'S 20 & 21 T1N R23W G&SRM	140	319	2190	1362	1836	2118	2300	2712	1799	532	272	0	15580
DIVERSION 2/ RETURN CONSUMPTIVE USE													
CIBOLA NATIONAL WILDLIFE REFUGE 3 PUMPS	36	162	404	487	814	869	561	519	472	550	440	120	5434
DIVERSION 6/ RETURN CONSUMPTIVE USE													
IMPERIAL NATIONAL WILDLIFE REFUGE 2 WELLS SEC 13 T5S R22W G&SRM	0	0	0	0	0	0	0	0	0	0	0	0	0
DIVERSION 6/ RETURN CONSUMPTIVE USE													
YUMA PROVING GROUND DIVERSION AT IMPERIAL DAM	2	0	0	0	3	0	0	0	0	2	2	0	9
DIVERSION RETURN CONSUMPTIVE USE													
HARREN ACT CONTRACTORS DIVERSION AT IMPERIAL DAM	337	340	541	409	529	418	399	406	469	636	150	184	4848
DIVERSION RETURN CONSUMPTIVE USE													

DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1984  
STATE OF ARIZONA

V (B)

(ACRE- FEET) SHEET 3 OF 5

FINAL RECORDS

WATER USER	(ACRE- FEET)												DEC TOTALS 1/
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
MELLTON-MOHAHK J. & D. DISTRICT DIVERSTION AT IMPERIAL DAM	16810	35773	41876	43776	46019	47421	39298	36887	43902	23987	21270	8135	405154
RETURN 3/ CONSUMPTIVE USE	12312	11847	12050	11394	11179	9878	9057	8967	9326	9683	8848	9832	124373
	4498	23926	29826	32382	34840	37543	30241	27920	34376	14304	12422	-1697	280781
CITY OF YUMA DIVERSTION AT IMPERIAL DAM	991	1217	1451	1429	1800	1837	1602	1663	1692	1626	1226	993	17527
RETURN CONSUMPTIVE USE	467	390	459	468	515	514	597	827	751	665	659	624	5736
	524	827	952	961	1285	1323	1005	1036	941	961	567	369	10791
MARINE CORPS AIR STATION (YUMA) DIVERSTION AT IMPERIAL DAM	60	54	89	115	250	279	259	231	207	146	49	35	1775
RETURN CONSUMPTIVE USE													
SOUTHERN PACIFIC COMPANY DIVERSTION AT IMPERIAL DAM	1	2	3	4	5	7	8	7	5	3	2	1	48
RETURN CONSUMPTIVE USE													
COUNTY OF YUMA DIVERSTION AT IMPERIAL DAM	1	1	1	1	1	1	1	1	1	1	1	1	12
RETURN CONSUMPTIVE USE													
YUMA MESA FRUIT GROMERS ASSN. DIVERSTION AT IMPERIAL DAM	1	1	1	1	1	1	1	1	1	1	1	1	12
RETURN CONSUMPTIVE USE													
UNIVERSITY OF ARIZONA DIVERSTION AT IMPERIAL DAM	24	22	51	74	73	96	101	73	70	47	42	24	697
RETURN CONSUMPTIVE USE													
YUMA UNION HIGH SCHOOL DIVERSTION AT IMPERIAL DAM	5	6	18	22	30	30	26	22	17	16	5	3	200
RETURN CONSUMPTIVE USE													

V12

DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1984  
STATE OF ARIZONA

V (B)

FINAL RECORDS

(ACRE-FEET) SHEET 4 OF 5

WATER USER	(ACRE-FEET)												DEC	TOTALS 1/	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC			
CAMILLE, ALEC. JR. DIVERSION AT IMPERIAL DAM	1	1	2	3	3	3	3	3	2	2	2	2	1	1	25
DIVERSION RETURN CONSUMPTIVE USE															
DESERT LAHNS MEMORIAL DIVERSION AT IMPERIAL DAM	4	7	8	13	28	20	15	17	16	15	6	1	1	1	150
DIVERSION RETURN CONSUMPTIVE USE															
NORTH GILA VALLEY IRRIGATION DISTRICT DIVERSION AT IMPERIAL DAM 7/	2828	3581	4271	4395	5144	4162	3308	2312	2532	3752	2617	1649	40551	1649	40551
DIVERSION RETURN CONSUMPTIVE USE	2449	2734	2627	2992	3221	2641	2230	1970	1885	2870	2026	1770	29415	1770	29415
	379	847	1644	1403	1923	1521	1078	342	647	882	591	-121	11136	-121	11136
YUMA IRRIGATION DISTRICT DIVERSION AT IMPERIAL DAM 7/ PUMPED FROM PRIVATE WELLS	3838	4001	5881	5392	6338	4447	3273	4581	6182	5930	4237	2017	55917	2017	55917
DIVERSION RETURN CONSUMPTIVE USE	511	643	671	793	1004	1266	1126	866	676	499	299	433	8787	433	8787
	750	634	830	801	943	671	681	867	1074	1016	711	352	9340	352	9340
	3599	4010	5922	5384	6399	5042	3718	4580	5784	5413	3825	2088	55364	2088	55364
YUMA MESA I. & D. DISTRICT DIVERSION AT IMPERIAL DAM 7/	9835	11497	14779	19425	26646	30282	24303	22099	24049	16311	10810	3121	213157	3121	213157
DIVERSION RETURN CONSUMPTIVE USE	1556	1408	1653	1070	858	684	1002	2754	3640	2696	2195	2079	21995	2079	21995
	8279	10089	13126	18355	25788	29598	23301	19345	20409	13615	8615	1042	191562	1042	191562
PUMPED FROM SOUTH GILA WELLS 7/	5401	5510	6287	5465	6222	5607	4822	4762	5328	5036	4592	5057	64089	5057	64089
DIVERSION RETURN CONSUMPTIVE USE															
UNIT "B" I. & D. DISTRICT DIVERSION AT IMPERIAL DAM 7/ 7E/	1683	1946	2515	2641	4329	4243	3311	4609	3605	3173	1723	748	34526	748	34526
DIVERSION RETURN CONSUMPTIVE USE	275	289	291	189	152	121	176	486	642	475	387	367	3810	367	3810
	1408	1697	2224	2452	4177	4122	3135	4123	2963	2698	1336	381	30716	381	30716

DIVERIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1984  
STATE OF ARIZONA

FINAL RECORDS (ACRE-FEET) SHEET 5 OF 5

WATER USER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS 1/
<b>YUMA COUNTY WATER USERS ASSOCIATION</b>													
DIVERSION AT IMPERIAL DAM	15271	24892	28600	27559	26296	30215	20277	24771	22248	26671	17560	9939	274299
PUMPED FROM WELLS 7E/	1125	888	964	932	928	871	893	887	998	1070	729	859	11144
CONSUMPTIVE USE	6501	5849	7301	7150	7078	6594	8042	8042	8978	10480	10026	9709	95750
CONSUMPTIVE USE	9895	19931	22263	21341	20146	24492	13128	17616	14268	17261	8263	1089	189693
<b>COCOPAH INDIAN RESERVATION</b>													
DIVERSION AT IMPERIAL DAM	1	124	12	15	137	121	65	105	30	3	0	14	627
PUMPED FROM WELLS 7E/	228	126	327	284	339	276	549	457	583	313	75	109	3666
CONSUMPTIVE USE	0	1	1	1	1	1	3	2	4	0	0	0	14
CONSUMPTIVE USE	229	249	338	298	475	396	511	560	609	316	75	123	4279
<b>FORT YUMA INDIAN RESERVATION</b>													
PUMPED FROM WELLS	169	185	318	290	186	40	162	90	102	189	2	66	1779
CONSUMPTIVE USE													
<b>OTHER USERS PUMPING FROM COLORADO RIVER AND WELLS IN FLOOD PLAIN DAVIS DAM TO INTERNATIONAL BOUNDARY</b>													
DIVERSION 5/	1080	2535	2656	2823	4562	5713	3704	3295	2601	1812	812	631	32224
CONSUMPTIVE USE	74041	137446	176036	181139	202264	223571	194987	183450	170420	126712	87239	32647	1788952
CONSUMPTIVE USE	50205	47355	59399	59278	58196	54954	59459	60645	59528	59071	51803	47660	667553
CONSUMPTIVE USE	23836	90091	116637	121861	144068	168617	135528	122805	110892	67641	35436	-15013	1122399
<b>ARIZONA TOTALS</b>													

NOTE THE TERM 'CONSUMPTIVE USE' IN THIS TABULATION MEANS MEASURED DIVERSIONS INCLUDING GROUNDWATER 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 125,615 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 1-3
- 6/ MONTHLY DISTRIBUTION NOT AVAILABLE, DISTRIBUTED ACCORDING TO MONTHLY DISTRIBUTION OF OTHER USERS IN IMMEDIATE AREA.
- 7/ 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	309525
SURFACE RETURNS FROM SOUTH GILA VALLEY	8787
RETURN FLOW NORTH GILA VALLEY	1512
RETURN FLOW SOUTH GILA VALLEY WELLS	14004
RETURN FLOW YUMA MESA OUTLET DRAIN B/ RETURN FLOW PROTECTIVE AND REGULATORY PUMPING UNIT C/ ESTIMATED UNMEASURED GROUNDWATER RETURN FLOW D/ SUBTOTAL RETURN FLOW E/ CONSUMPTIVE USE (SEE NOTE ABOVE)	22388 3017 23237 128247 190165
(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 COCOPIAH 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 COCOPIAH INDIAN RESERVATION AND IN THE YCHUA AREA, AND BY SOME OF THE SURFACE DRAINS IN THE YCHUA 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 1984  
STATE OF ARIZONA

V(B)

SUPPLEMENTAL SHEETS		(ACRE-FEET) SHEET 1 OF 3																
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS 1/				
WATER USER																		
RAYNER, JACK JR.																		
2 PUMPS																		
SW SE SW SEC 34 T4N R22W																		
G&SRM																		
1 WELL																		
SW SW SW SEC 34 T4N R22W																		
G&SRM																		
ARAKELIAN FARMS																		
1 PUMP																		
SE NW SE SEC 16 T3N R22W																		
G&SRM																		2520
SPRAWL (TOWERY, A.)																		
1 PUMP																		
SE SW NW SEC 21 T1N R23W																		
G&SRM																		3600
BLM PERMITTEES																		
DIVERSION																		126
DIVERSION 3/																		
DIVERSION 4/		0	0	0	48	256	187	35	320	425	89	66	64	78	42	0	1167	
		0	0	0	0	0	187	1712	1712	2274	476	353	347	417	224	0	5246	
DULIN, ARLIN																		
1 WELL																		
SW NE SE SEC 7 T8S R22W																		
G&SRM																		
1 WELL																		
SE SW SW SEC 7 T8S R22W																		
G&SRM																		
STURGES, STEVE																		
9 WELLS																		
SEC 18 T8S R 21W & SEC. 'S 13 & 14																		
T8S R22W G&SRM		563	1226	1269	1325	1234	1415	1439	1394	1036	576	204	317	12098	2/			
YOMELMAN, R.																		
1 WELL																		
NW SW SW SEC 17 T8S R22W																		
G&SRM																		720



DIVERSTIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1984  
STATE OF ARIZONA

V (B)

(ACRE- FEET) SHEET 2 OF 3

SUPPLEMENTAL SHEETS

WATER USER	(ACRE- FEET) SHEET 2 OF 3												DEC TOTALS 1/
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
AUZA, PETE 1 PUMP SE SE NE SEC 24 T8S R23W G&SRM													1590
DIVERSION													
DIVERSION													1590
OTT, JUDD T. 1 WELL NW NE NW SEC 30 T8S R22W G&SRM	17	0	8	6	16	36	30	34	15	3	15	15	195 2/
DIVERSION													
DIVERSION													195 2/
OTT, JUDD T. 1 WELL SE SE SE SEC 18 T8S R22W G&SRM	34	34	20	17	22	31	36	39	34	20	23	35	345 2/
DIVERSION													
DIVERSION													345 2/
CAMERON BROS. 2 WELLS SE NE SW SEC 24 T9S R22W G&SRM	0	0	0	13	12	2	2	0	0	0	0	0	29 2/
DIVERSION													
DIVERSION													29 2/
HARP, R. 1 WELL SE NE NE SEC 13 T8S R23W G&SRM													1458
DIVERSION													
DIVERSION													1458
VUKASOVICH 1 WELL SE NE SW SEC 24 T8S R22W G&SRM	0	2	1	0	0	0	0	0	0	0	0	0	3 2/
DIVERSION													
DIVERSION													3 2/
SW SW SE SEC 24 T8S R22W G&SRM	20	12	23	55	43	79	54	55	51	16	16	0	424 2/
DIVERSION													
DIVERSION													424 2/
SUNKIST OF YUMA 1 WELL NE SE SW SEC 23 T8S R23W G&SRM	14	23	23	36	64	70	54	51	62	35	40	12	484 2/
DIVERSION													
DIVERSION													484 2/
NUNNALEY (G. RUSSELL) 1 WELL NE SE SW SEC 28 T16S R22E SBM	0	0	19	0	10	6	18	20	0	0	0	0	73 2/
DIVERSION													
DIVERSION													73 2/

DIVERIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1984  
STATE OF ARIZONA

V (B)

SUPPLEMENTAL SHEETS		(ACRE-FEET) SHEET 3 OF 3														
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS 1/		
CURTIS, A. (JENNINGS, A.)		0	3	8	11	14	15	0	0	0	0	0	30	0	81	2/
DIVERISION																
1 PUMP SH NE SE SEC 29 T16S R22E SBM																
POMER, BILL																1980
DIVERISION																
1 PUMP SH SH NE SEC 30 T16S R22E SBM																
POMER, R. E. (P. POMER)																1920
DIVERISION																
1 PUMP SH SH NE SEC 30 T16S R22E SBM																
HALL, ANSTL																480
DIVERISION																
1 PUMP NH SH NH SEC 36 T16S R21E SBM																
BURRELL																192
DIVERISION																
1 WELL NH NE NH SEC 25 T8S R24W G8SRM																
ARIZONA SUBTOTALS		648	1521	1411	1555	1518	1808	1883	1725	1314	790	328	379	14881		
IMPERIAL DAM TO INTERNATIONAL BOUNDARY		432	1014	941	1045	1012	1206	1256	1151	876	527	218	252	9930		
DIVERISION 3/																
DIVERISION 4/																
ARIZONA TOTALS		1080	2535	2856	2823	4562	5713	3704	3295	2601	1812	812	631	32224		

1/ CALCULATED BY ASSUMING AN ANNUAL DIVERISION 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.

DIVERIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1984  
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	1408	783	1239	2234	3196	2768	3373	2724	2014	1021	0	0	20760
CITY OF NEEDLES 4 WELLS NW 1/4 SEC 29 T9N R23E S8M													
DIVERSION RETURN CONSUMPTIVE USE	126	144	214	255	261	444	414	398	360	331	212	175	3334
	29	26	25	32	35	44	67	74	49	65	41	37	524
	97	118	189	223	226	400	347	324	311	266	171	138	2810
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	87162	62608	106338	108686	112283	109656	112942	112644	109722	112869	109324	92996	1237230
	341	306	330	309	287	273	304	307	280	319	311	344	3711
	86821	62302	106008	108377	111996	109383	112638	112337	109442	112550	109013	92652	1233519
PARKER DAM AND GOVERNMENT CAMP DIVERSION AT PARKER DAM													
DIVERSION RETURN CONSUMPTIVE USE	3	4	9	12	20	25	27	23	22	13	8	5	171
COLORADO RIVER INDIAN RESERVATION PUMPED FROM 11 PUMPS AND WELLS 1 WELL-BIG RIVER													
DIVERSION 4/ RETURN CONSUMPTIVE USE	241	218	0	369	404	558	550	516	349	208	156	1	3670
	54	46	64	81	91	100	96	113	76	49	77	43	890
PALO VERDE IRRIGATION DISTRICT DIVERSION FROM PALO VERDE DAM													
DIVERSION RETURN CONSUMPTIVE USE	33880	66860	81004	93224	94871	93443	87667	88176	86225	49869	39535	20151	834905
	30950	36364	40855	40290	44179	46336	53697	45581	44754	42423	38872	38863	503064
	2930	30496	40149	52934	50692	47107	34070	42595	41471	7446	663	-18712	331841

DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1984  
STATE OF CALIFORNIA

V (B)

(ACRE-FEET) SHEET 2 OF 2

FINAL RECORDS

WATER USER	ACRE-FEET												DEC TOTALS 1/
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
YUMA PROJECT RES. DIV. INDIAN UNIT													
DIVERSION AT IMPERIAL DAM	2223	2510	3282	2989	2576	2020	2090	2768	1626	2656	1262	749	26751
RETURN	10	5	7	7	5	4	6	13	8	12	6	4	87
CONSUMPTIVE USE	2213	2505	3275	2982	2571	2016	2084	2755	1618	2644	1256	745	26664
YUMA PROJECT RES. DIV. BARD UNIT													
DIVERSION AT IMPERIAL DAM	2610	3719	4300	4570	4886	4542	4068	3065	2701	3382	1556	1053	40452
RETURN	6	4	5	6	6	6	6	9	8	10	5	4	75
CONSUMPTIVE USE	2604	3715	4295	4564	4880	4536	4062	3056	2693	3372	1551	1049	40377
RETURNS FROM YUMA PROJECT													
RESERVATION DIVISION RETURNS	1767	1498	2433	1961	1998	416	595	1615	1735	2198	2122	2021	20359
IMPERIAL IRRIGATION DISTRICT													
DIVERSION AT IMPERIAL DAM	149549	202638	275265	318643	288772	257783	255977	256892	232754	220824	146833	76770	2682700
RETURN	874	564	767	916	789	683	699	2997	2671	2579	1748	878	16165
CONSUMPTIVE USE	148675	202074	274498	317727	287983	257100	255278	253895	230083	218245	145085	75892	2666535
COACHELLA VALLEY WATER DISTRICT													
DIVERSION AT IMPERIAL DAM	20351	25359	34438	35791	42038	36677	35974	36653	37123	27222	15577	10772	357975
RETURN	118	71	96	103	115	97	98	429	430	318	186	125	2186
CONSUMPTIVE USE	20233	25288	34342	35688	41923	36580	35876	36224	36693	26904	15391	10647	355789
CITY OF WINTERHAVEN													
1 WELL SE SE NE SEC 27 T16S R22E S8M	4	3	4	7	8	11	10	10	8	6	5	4	80
RETURN													
CONSUMPTIVE USE													
OTHER USERS PUMPING FROM COLORADO RIVER													
AND WELLS IN FLOOD PLAIN	238	532	1479	1232	2502	2441	1637	1433	958	916	637	336	14341
DIVERSION 3/													
DAVIS DAM TO INTERNATIONAL BOUNDARY													
CALIFORNIA TOTALS													
DIVERSION	297850	365425	507637	568094	551909	510470	504927	505417	473939	419367	315183	203056	5223274
RETURN	34095	36838	44518	43624	47414	47859	55372	51025	49935	47924	43291	42276	546171
CONSUMPTIVE USE	263755	325587	463119	524470	504495	462611	449555	454392	424004	371443	271892	160780	4677103

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 1-3.
- 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 1984  
STATE OF CALIFORNIA

V (B)

SUPPLEMENTAL SHEETS (ACRE-FEET) SHEET 1 OF 3

WATER USER	DIVERSION	MONTHS												DEC TOTALS 1/		
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV				
SOTO BROTHERS 1 WELL SW NE SE SEC 36 T11N R22E SBM	DIVERSION															1517
BEASON, 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															960
1 WELL SE NW NE SEC 31 T11N R21E SBM	DIVERSION															960
BLM PERMITTEES	DIVERSION															206
SUBTOTALS-DAVIS DAM TO IMPERIAL DAM	DIVERSION 4/	0	0	198	145	1326	1761	368	273	270	323	174	0	4838		
COLE (R. LAND) 1 WELL SW SE SE SEC 35 T15S R23E SBM	DIVERSION	0	48	45	84	98	72	64	50	0	0	0	0	461	2/	
LYE, R. L. 1 WELL SE NE NW SEC 16 T16S R24E SBM	DIVERSION															60
PEREZ, F. (SLADE) 1 WELL NE SE SW SEC 6 T8S R22M G&SRM	DIVERSION	0	0	315	0	0	97	94	313	0	0	0	0	819	2/	
BARRETT (R. HARPI) 1 WELL SE SW SW SEC 6 T8S R22M G&SRM	DIVERSION															858

DIVERIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1984  
STATE OF CALIFORNIA

V (B)

(ACRE-FEET) SHEET 2 OF 3

SUPPLEMENTAL SHEETS

WATER USER	(ACRE-FEET) SHEET 2 OF 3												DEC	TOTALS 1/
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
SPENDER, M. 1 WELL SW NE SW SEC 9 T16S R23E G&SRM	4	37	43	3	8	44	81	33	34	71	272	0	630	2/
MARTIN, M. (A. DEES) 2 PUMPS SE NE NW SEC 1 T8S R23W G&SRM	0	0	70	4	40	8	90	76	62	0	0	0	350	2/
SCHAFFER, F. (R. HARP) 1 WELL SW SE NE SEC 2 T8S R23W G&SRM	0	0	0	124	72	0	1	144	217	73	0	0	631	2/
WILSON (R. HARP) 1 WELL NE NW NW SEC 12 T8S R23W G&SRM	11	8	27	60	14	14	58	19	22	76	8	132	449	2/
EASTERDAY, A. 1 WELL SW SW SE SEC 1 T8S R23W G&SRM	0	0	0	0	143	0	76	90	57	59	0	0	425	2/
EVANS, E. (R. HARP) 1 WELL SE NE NE SEC 12 T8S R23W G&SBM	89	0	121	146	102	13	3	3	3	0	0	0	480	2/
HARP R. 1 WELL SW NE SE SEC 12 T8S R23W G&SRM													882	

VIB)

DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1984  
STATE OF CALIFORNIA

SUPPLEMENTAL SHEETS (ACRE-FEET) SHEET 3 OF 3

WATER USER	(ACRE-FEET) SHEET 3 OF 3												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS 1/
EASTERDAY, KENNETH 1 WELL NW SE SW SEC 12 T8S R23W G&SRM	82	66	128	82	80	88	310	146	126	111	60	98	1377 2/
SMITH, F. (P. POWER) 1 WELL NE SW SE SEC 11 T8S R23W G&SRM	0	268	284	366	392	211	247	62	31	88	36	41	2026 2/
MUSGRAVE (BARKLEY COMPANY) 1 WELL NE SE SW SEC 19 T16S R23E SBM	7	5	6	6	5	5	5	5	6	3	0	2	55 2/
CALIFORNIA SUBTOTALS	193	432	1039	875	954	552	1029	941	558	481	376	273	7703
IMPERIAL DAM TO INTERNATIONAL BOUNDARY	45	100	242	212	222	128	240	219	130	112	87	63	1800
CALIFORNIA TOTALS	238	532	1479	1232	2502	2441	1637	1433	958	916	637	336	14341

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 1984  
STATE OF NEVADA

V (B)

WATER USER	(ACRE- FEET)												DEC TOTALS 1/
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
FINAL RECORDS													SHEET 1 OF 3
HOOVER DAM DIVERSION AT HOOVER DAM	36	7	7	9	8	11	21	20	20	20	19	8	186
	DIVERSION RETURN CONSUMPTIVE USE												
ROBERT B. GRIFFITH WATER PROJECT DIVERSION AT SADDLE ISLAND, LAKE MEAD	7951	7535	9856	11950	16743	16540	15249	13311	13260	11682	9002	8631	141710
	DIVERSION RETURN CONSUMPTIVE USE												
LAKE MEAD NATIONAL RECREATION AREA DIVERSION AT LAKE MEAD	62	49	70	79	93	104	109	94	106	103	79	57	1005
	DIVERSION RETURN CONSUMPTIVE USE												
BASIC MANAGEMENT INC. DIVERSION AT SADDLE ISLAND, LAKE MEAD	798	697	841	878	1212	1286	1178	1077	1185	985	927	783	11847
	DIVERSION RETURN CONSUMPTIVE USE												
NEVADA STATE DEPARTMENT OF FISH AND GAME DIVERSION AT SADDLE ISLAND, LAKE MEAD	375	340	376	358	355	350	349	380	377	389	385	383	4417
	DIVERSION RETURN CONSUMPTIVE USE												
PACIFIC COAST BUILDING PRODUCTS INC. DIVERSION AT GYPSUM WASH, LAKE MEAD	0	0	1	0	0	1	1	0	1	0	0	0	4
	DIVERSION RETURN CONSUMPTIVE USE												
SOUTHERN CALIFORNIA EDISON COMPANY PUMPED FROM SEC 24 T32S R66E M08&M	68	65	66	66	68	45	29	0	56	51	51	51	616
	DIVERSION RETURN CONSUMPTIVE USE												
CLARK COUNTY PARKS & RECREATION DEPT. 1 PUMP SEC 1 T32S R66E M08&M	1355	1368	1586	1186	1140	1418	1718	1546	1427	690	414	350	14198
	DIVERSION RETURN CONSUMPTIVE USE												

DIVERIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1984  
STATE OF NEVADA

V (B)

WATER USER	(ACRE-FEET)												DEC TOTALS 1/	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
FINAL RECORDS														
BIG BEND WATER DISTRICT 1 PUMP SEC 13 T32S R66E M0B&M	0	0	0	0	0	0	0	0	0	0	0	0	11	31
DIVERSION RETURN CONSUMPTIVE USE														
RIO ALTA VISTA ESTATES 1 WELL SEC 24 T32S R66E M0B&M														56
DIVERSION 2/ RETURN CONSUMPTIVE USE														
WIERKE, ARMIN T. 1 PUMP SEC 33 T32S R66E M0B&M														8
DIVERSION 2/ RETURN CONSUMPTIVE USE														
PORTENTER, WARREN E. 1 PUMP SEC 33 T32S R66E M0B&M														42
DIVERSION 2/ RETURN CONSUMPTIVE USE														
WELLES, JOHN C. 1 PUMP SEC 33 T32S R66E M0B&M														8
DIVERSION 2/ RETURN CONSUMPTIVE USE														
KNIGHT, JOHN B. 1 PUMP SEC 33 T32S R66E M0B&M														5
DIVERSION 2/ RETURN CONSUMPTIVE USE														
BOY SCOUTS OF AMERICA 1 PUMP SEC 5 T33S R66E M0B&M														10
DIVERSION 2/ RETURN CONSUMPTIVE USE														

DIVERSIONS FROM MAINSTREAM-AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1984  
STATE OF NEVADA

FINAL RECORDS

(ACRE- FEET) SHEET 3 OF 3

WATER USER	(ACRE- FEET)												DEC TOTALS 1/
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
LAS VEGAS WASH RETURNS	5726	4749	5455	5562	5919	5450	6026	5706	5629	5754	5553	6711	68240
NEVADA TOTALS	10645	10061	12802	14526	19619	19754	18653	16428	16431	13932	10885	10274	174145 3/
DIVERSION RETURN	6101	5089	5830	5920	6274	5799	6374	6086	6005	5143	5938	7094	72653
CONSUMPTIVE USE	4544	4972	6972	8606	13345	13955	12279	10342	10426	7789	4947	3180	101492 3/

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/ REPORTS ANNUALLY.

3/ THE MONTHLY TOTALS DO NOT ADD TO THE ANNUAL TOTAL BECAUSE OF NONAVAILABILITY OF MONTHLY VALUES FOOTNOTED 2/.

4/ 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

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CALENDAR YEAR 1984

The following tabulations for calendar year 1984 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  
 V (C)

QUANTITY OF SUCH WATER DELIVERED TO MEXICO IN SATISFACTION OF MEXICAN TREATY OR DIVERTED BY OTHERS  
 CALENDAR YEAR 1984  
 STATE OF ARIZONA

(ACRE-FEET) SHEET 1 OF 3

WATER USER	(ACRE-FEET)												TOTALS
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
COLO. RIVER INDIAN RESERVATION DIVERSION AT HEADGATE ROCK	1099	1607	1135	597	1805	6159	2432	3267	613	1353	426	214	2070
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	67	0	258	50	103	317	50	496	139	58	87	0	1625
DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	1032	1607	877	547	1702	5842	2382	2771	474	1295	339	214	19082
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	819	766	781	748	547	1148	1539	1152	514	133	145	1351	9643
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	284	145	258	65	52	349	149	175	288	22	75	141	2003
DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	535	621	523	683	495	799	1390	977	226	111	70	1210	7640
WARREN ACT CONTRACTORS GILA PROJECT DISTRICTS 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
WELLTON-MOHAWK I. & D. DISTRICT DIVERSION AT IMPERIAL DAM	4955	2664	5582	9380	12653	8049	13779	17806	9178	5685	4070	8196	101997
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	1188	647	793	833	2059	1531	700	1309	2257	1672	772	276	14037
DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	3767	2017	4789	8547	10594	6518	13079	16497	5921	4013	3298	7920	87960

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 1984  
STATE OF ARIZONA

WATER USER	IACRE-FEET) SHEET 2 OF 3												TOTALS
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
YUMA IRRIGATION DISTRICT DIVERSION AT IMPERIAL DAM	635	573	504	821	377	899	2037	1115	448	426	1234	1740	10809
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	97	290	292	127	117	290	212	129	319	216	369	173	2631
DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	538	283	212	594	260	609	1825	986	129	210	865	1567	8178
YUMA MESA I. & D. DISTRICT DIVERSION AT IMPERIAL DAM	2676	3608	3441	3406	2327	799	4475	6226	1783	2095	1591	4249	36676
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	776	1000	904	518	617	165	85	244	573	664	339	155	6040
DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	1900	2608	2537	2888	1710	634	4390	5982	1210	1431	1252	4094	30636
UNITY "B" I. & D. DISTRICT DIVERSION AT IMPERIAL DAM	246	175	417	526	180	361	1347	641	470	436	173	1006	5978
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	95	73	54	56	12	115	83	171	262	192	30	52	1195
DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	151	102	363	470	168	246	1264	470	208	244	143	954	4783
CITY OF YUMA DIVERSION AT IMPERIAL DAM	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	10	261	10	0	0	71	281	633
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	7	35	1	0	0	13	12	88
YUMA COUNTY WATER USERS ASSN. DIVERSION AT IMPERIAL DAM	1470	1487	1600	2645	2218	1208	5322	1427	296	444	3470	3052	24639
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	865	1361	979	1073	1608	819	707	124	190	113	644	133	8616
DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	605	126	521	1572	610	389	4615	1303	106	331	2826	2919	15023

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 1984  
STATE OF ARIZONA

(ACRE-FEET) SHEET 3 OF 3

WATER USER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
COCOPAH INDIAN RESERVATION DIVERSION AT IMPERIAL DAM	0	7	1	1	9	4	14	5	0	0	0	3	44
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	6	1	0	7	3	2	0	0	0	0	0	19
DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	0	1	0	1	2	1	12	5	0	0	0	3	25
ARIZONA TOTALS	11900	10887	13461	18124	20116	18637	31206	31649	13302	10572	11180	20092	211126
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	3372	3522	3539	2722	4575	3596	2023	2649	4028	2937	2329	942	36234
DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	8528	7365	9922	15402	15541	15041	29183	29000	9274	7635	8851	19150	174892

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 1984  
STATE OF CALIFORNIA

(ACRE- FEET) SHEET 1 OF 2

WATER USER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
METROPOLITAN WATER DISTRICT DIVERSION AT LAKE HAVASU	1438	1352	3297	5314	5517	4344	4858	5156	4278	4931	4576	3409	48570
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	1438	1352	3297	5314	5517	4344	4858	5156	4278	4931	4576	3409	48570
PALO VERDE IRRIGATION DISTRICT DIVERSION AT PALO VERDE DAM	4104	4388	4862	5445	3927	4453	5994	4750	4739	5504	3802	2432	54400
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	125	1103	795	617	585	843	833	849	1527	672	1333	641	9923
DELIVERED TO STORAGE 1/ DELIVERED TO MEXICO IN EXCESS OF TREATY	3979	3285	4067	4828	3342	3610	5161	3901	3212	4832	2469	1791	44477
YUMA PROJECT RESV. DIVISION BARO UNIT DIVERSION AT IMPERIAL DAM	561	550	845	990	1096	1017	1758	1368	1362	790	1817	1807	13961
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	435	502	640	520	785	782	398	441	959	571	917	497	7447
DELIVERED TO STORAGE 1/ DELIVERED TO MEXICO IN EXCESS OF TREATY	126	48	205	470	311	235	1360	927	403	219	900	1310	6514
YUMA PROJECT RESV. DIVISION INDIAN UNIT DIVERSION AT IMPERIAL DAM	478	378	663	650	586	459	914	1280	754	585	1384	1300	9431
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	370	345	501	341	419	353	207	412	531	423	698	357	4957
DELIVERED TO STORAGE 1/ DELIVERED TO MEXICO IN EXCESS OF TREATY	108	33	162	309	167	108	707	868	223	162	586	943	4474
IMPERIAL IRRIGATION DISTRICT DIVERSION AT IMPERIAL DAM	1505	1503	1817	659	1095	48	6565	9126	1488	1144	11471	9892	46293
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	109	577	538	292	167	12	83	458	171	593	1299	551	4850
DELIVERED TO STORAGE 1/ DELIVERED TO MEXICO IN EXCESS OF TREATY	1396	926	1279	367	928	36	6482	8668	1297	551	10172	9341	41443

RELEASE OF MAINSTREAM WATER PURSUANT TO ORDERS  
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QUANTITY OF SUCH WATER DELIVERED TO MEXICO IN SATISFACTION OF MEXICAN TREATY OR DIVERTED BY OTHERS  
CALENDAR YEAR 1984  
STATE OF CALIFORNIA

(ACRE-FEET) SHEET 2 OF 2

WATER USER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
COACHELLA VALLEY WATER DIST. DIVERSION AT IMPERIAL DAM	1648	1035	288	1027	1811	1950	5002	1444	611	682	1976	1863	19337
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	1097	990	208	478	986	1525	740	125	248	458	877	486	8218
DELIVERED TO STORAGE 1/ DELIVERED TO MEXICO IN EXCESS OF TREATY	551	45	80	549	825	425	4262	1319	363	224	1099	1377	11119
CALIFORNIA TOTALS	9734	9206	11772	14085	14032	12271	25091	23124	13212	13636	25126	20703	191992
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	2136	3517	2882	2248	2942	3515	2261	2285	3436	2717	5124	2532	35395
DELIVERED TO STORAGE 1/ DELIVERED TO MEXICO IN EXCESS OF TREATY	7598	5689	9090	11837	11090	8756	22830	20839	9776	10919	20002	18171	156597

1/ AVAILABLE FOR FUTURE USE.

RECORDS OF DELIVERIES TO MEXICO OF WATER  
IN SATISFACTION OF THE TREATY OF FEBRUARY 3, 1944,  
AND WATER PASSING TO MEXICO IN EXCESS OF  
TREATY REQUIREMENTS IN ACCORDANCE WITH  
ARTICLE V(D) OF THE DECREE OF  
THE SUPREME COURT OF THE UNITED STATES  
IN ARIZONA v. CALIFORNIA DATED MARCH 9, 1964

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CALENDAR YEAR 1984

DELIVERIES TO MEXICO IN SATISFACTION OF PART 111 OF 1944 TREATY  
AND  
WATER PASSING TO MEXICO IN EXCESS OF TREATY REQUIREMENTS  
CALENDAR YEAR 1984

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/	55370	51798	248082	225680	121406	174413	213546	233303	96537	57170	56749	155966	1706000
PASSING TO MEXICO IN EXCESS OF TREATY REQUIREMENTS 2/ 3/	1532085	1349634	1032082	867289	996503	1116892	1255095	1116112	1084685	1129428	1164716	1274111	13918532

1/ INCLUDES 125,615 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.

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 1984

V (E)

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

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