

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

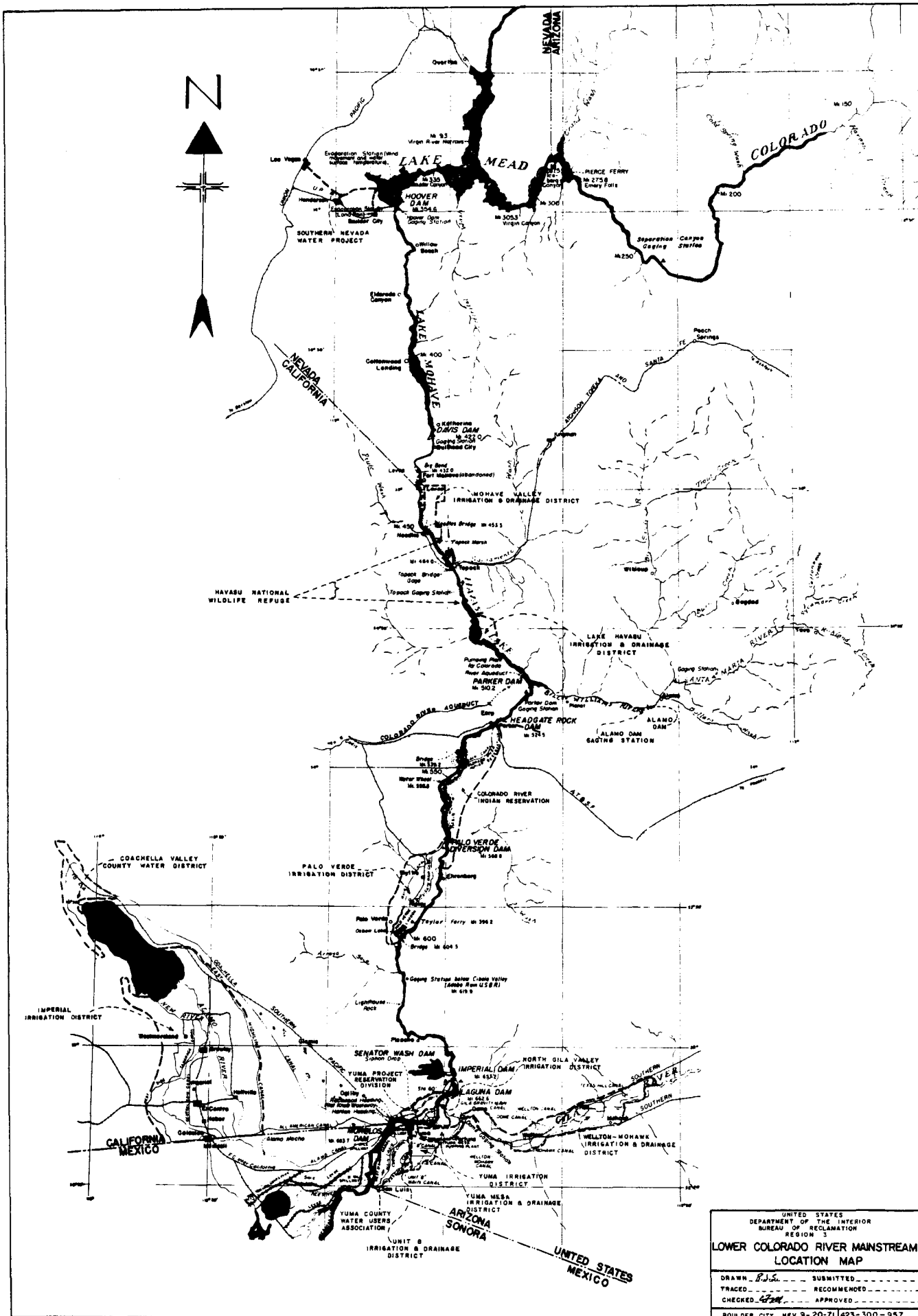
CALENDAR YEAR 1984

Division of Water and Land Operations
Boulder City, Nevada

March 1986

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UNITED STATES
 DEPARTMENT OF THE INTERIOR
 BUREAU OF RECLAMATION
 REGION 3

**LOWER COLORADO RIVER MAINSTREAM
 LOCATION MAP**

DRAWN *P.J.S.* SUBMITTED _____
 TRACED _____ RECOMMENDED _____
 CHECKED *W.F.M.* 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 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)												TOTALS
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
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	1606000	1624000	21658000
PARKER DAM	1728000	1657000	1741000	1809000	1662000	1932000	2012000	1835000	1668000	1594000	1499000	1527000	20464000
HEADGATE ROCK DAM 1/	1713000	1611000	1678000	1548000	1597000	1853000	1934000	1768000	1617000	1559000	1476000	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	964200	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

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 (B)

FINAL RECORDS

(ACRE-FEET) SHEET 2 OF 5

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS 1/
TOWN OF PARKER 1 WELL-NW 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	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	20494	18733	27900	29748	28027	28243	32849	32168	27900	26150	22359	17860	312431
	CONSUMPTIVE USE	-5769	27071	35225	31477	36569	50817	45475	35154	22987	8589	1000	-15148	273447
NE SW NW SEC 14 T4N R22W G&SRM														
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													
WARREN ACT CONTRACTORS DIVERSION AT IMPERIAL DAM		337	340	541	409	529	418	399	406	469	636	180	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)

FINAL RECORDS

(ACRE-FEET) SHEET 3 OF 5

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS 1/
MELLTON-MOHAWK I. & D. DISTRICT DIVERSION AT IMPERIAL DAM	DIVERSION	16810	35773	41876	43776	46019	47421	39298	36887	43902	23987	21270	8135	405154
	RETURN 3/	12312	11847	12050	11394	11179	9878	9057	8967	9326	9683	8848	9832	124373
	CONSUMPTIVE USE	4498	23926	29826	32382	34840	37543	30241	27920	34576	14304	12422	-1697	280781
CITY OF YUMA DIVERSION AT IMPERIAL DAM	DIVERSION	991	1217	1451	1429	1800	1837	1602	1663	1692	1626	1226	993	17527
	RETURN	467	390	459	468	515	514	597	627	751	665	659	624	6736
	CONSUMPTIVE USE	524	827	992	961	1285	1323	1005	1036	941	961	567	369	10791
MARINE CORPS AIR STATION (YUMA) DIVERSION AT IMPERIAL DAM	DIVERSION	60	54	89	116	250	279	259	231	207	146	49	35	1775
	RETURN													
	CONSUMPTIVE USE													
SOUTHERN PACIFIC COMPANY DIVERSION AT IMPERIAL DAM	DIVERSION	1	2	3	4	5	7	8	7	5	3	2	1	48
	RETURN													
	CONSUMPTIVE USE													
COUNTY OF YUMA DIVERSION AT IMPERIAL DAM	DIVERSION	1	1	1	1	1	1	1	1	1	1	1	1	12
	RETURN													
	CONSUMPTIVE USE													
YUMA MESA FRUIT GROWERS ASSN. DIVERSION AT IMPERIAL DAM	DIVERSION	1	1	1	1	1	1	1	1	1	1	1	1	12
	RETURN													
	CONSUMPTIVE USE													
UNIVERSITY OF ARIZONA DIVERSION AT IMPERIAL DAM	DIVERSION	24	22	51	74	73	96	101	73	70	47	42	24	697
	RETURN													
	CONSUMPTIVE USE													
YUMA UNION HIGH SCHOOL DIVERSION AT IMPERIAL DAM	DIVERSION	5	6	18	22	30	30	26	22	17	16	5	3	200
	RETURN													
	CONSUMPTIVE USE													

JAN 20 1985

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		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS 1/
CAMILLE, ALEC. JR. DIVERSION AT IMPERIAL DAM	DIVERSION RETURN CONSUMPTIVE USE	1	1	2	3	3	3	3	3	2	2	2	1	26
DESERT LAMN MEMORIAL DIVERSION AT IMPERIAL DAM	DIVERSION RETURN CONSUMPTIVE USE	4	7	8	13	28	20	15	17	16	15	6	1	150
NORTH GILA VALLEY IRRIGATION DISTRICT DIVERSION AT IMPERIAL DAM 7/	DIVERSION RETURN CONSUMPTIVE USE	2828 2449 379	3581 2734 847	4271 2627 1644	4395 2992 1403	5144 3221 1923	4162 2641 1521	3308 2230 1078	2312 1970 342	2532 1885 647	3752 2870 882	2617 2026 591	1649 1770 -121	40551 29415 11136
YUMA IRRIGATION DISTRICT DIVERSION AT IMPERIAL DAM 7/ PUMPED FROM PRIVATE WELLS	DIVERSION DIVERSION RETURN CONSUMPTIVE USE	3838 511 750 3599	4001 643 634 4010	5681 671 830 5522	5392 793 801 5384	6338 1004 943 6399	4447 1266 671 5042	3273 1126 681 3718	4581 866 867 4580	6182 676 1074 5784	5930 499 1016 5413	4237 299 711 3825	2017 433 362 2088	55917 8787 9340 55364
YUMA MESA I. & D. DISTRICT DIVERSION AT IMPERIAL DAM 7/	DIVERSION RETURN CONSUMPTIVE USE	9835 1556 8279	11497 1408 10089	14779 1653 13126	19425 1070 18355	26646 858 25788	30282 684 29598	24303 1002 23301	22099 2754 19345	24049 3640 20409	16311 2696 13615	10810 2195 8615	3121 2079 1042	213157 21595 191562
PUMPED FROM SOUTH GILA WELLS 7/	RETURN 4/	5401	5510	6287	5465	6222	5607	4822	4762	5328	5036	4592	5057	64089
UNIT "B" I. & D. DISTRICT DIVERSION AT IMPERIAL DAM 7/, 7E/	DIVERSION RETURN CONSUMPTIVE USE	1683 275 1408	1946 249 1697	2515 291 2224	2641 189 2452	4329 152 4177	4243 121 4122	3311 176 3135	4609 486 4123	3605 642 2963	3173 475 2698	1723 387 1336	748 367 381	34526 3810 30716

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 5 OF 5

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS 1/
YUMA COUNTY WATER USERS ASSOCIATION														
DIVERSION AT IMPERIAL DAM	DIVERSION	15271	24892	28600	27559	26296	30215	20277	24771	22248	26671	17560	9939	274299
PUMPED FROM WELLS 7E/	DIVERSION	1125	888	964	932	928	871	893	887	998	1070	729	859	11144
	RETURN	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
COCOPA INDIAN RESERVATION														
DIVERSION AT IMPERIAL DAM	DIVERSION	1	124	12	15	137	121	65	105	30	3	0	14	627
PUMPED FROM WELLS 7E/	DIVERSION	228	126	327	284	339	276	549	457	583	313	75	109	3666
	RETURN	0	1	1	1	1	1	3	2	4	0	0	0	14
	CONSUMPTIVE USE	229	249	338	298	475	396	611	560	609	316	75	123	4279
FORT YUMA INDIAN RESERVATION														
PUMPED FROM WELLS	DIVERSION	169	185	318	290	186	40	162	90	102	169	2	66	1779
	RETURN													
	CONSUMPTIVE USE													
OTHER USERS PUMPING FROM COLORADO RIVER														
AND WELLS IN FLOOD PLAIN	DIVERSION 5/	1080	2535	2656	2823	4562	5713	3704	3295	2601	1812	812	631	32224
DAVIS DAM TO INTERNATIONAL BOUNDARY														
ARIZONA TOTALS														
	DIVERSION	74041	137446	176036	181139	202264	223571	194987	183450	170420	126712	87239	32647	1789952
	RETURN	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

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	309625 8787
SURFACE RETURNS FROM SOUTH GILA VALLEY	1512
RETURN FLOW NORTH GILA VALLEY	14004
RETURN FLOW SOUTH GILA VALLEY WELLS	64089
RETURN FLOW YUMA MESA OUTLET DRAIN B/	22388
RETURN FLOW PROTECTIVE AND REGULATORY PUMPING UNIT C/	3017
ESTIMATED UNMEASURED GROUNDWATER RETURN FLOW D/ SUBTOTAL RETURN FLOW E/	23237 128247
CONSUMPTIVE USE (SEE NOTE ABOVE)	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 COCOPAH INDIAN RESERVATION, AND THE YUMA COUNTY WATER USERS ASSOCIATION (YCMUA) 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 YCMUA AREA, AND BY SOME OF THE SURFACE DRAINS IN THE YCMUA AREA. EFFORTS WILL BE MADE TO AT LEAST QUANTIFY THESE RETURN FLOWS WITHIN BROAD LIMITS BY RESPECTIVE WATER USER ENTITIES IN FUTURE YEARS.	

DIVERSIONS FROM 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

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS 1/
RAYNER, JACK JR. 2 PUMPS SW SE SW SEC 34 T4N R22W G&SRM	DIVERSION	0	0	0	0	289	358	49	56	64	78	42	0	936 2/
1 WELL SW SW SW SEC 34 T4N R22W G&SRM	DIVERSION	0	0	48	35	31	67	40	10	0	0	0	0	231 2/
ARAKELIAN FARMS 1 PUMP SE NW SE SEC 16 T3N R22W G&SRM	DIVERSION													2520
SPRAHL (TOWERY, A.) 1 PUMP SE SW NW SEC 21 T1N R23W G&SRM	DIVERSION													3600
BLM PERMITTEES	DIVERSION													126
SUBTOTALS-DAVIS DAM TO IMPERIAL DAM	DIVERSION 3/ DIVERSION 4/	0 0	0 0	48 256	35 187	320 1712	425 2274	89 476	66 353	64 347	78 417	42 224	0 0	1167 6246
DULIN, ARLIN 1 WELL SW NE SE SEC 7 T8S R22W G&SRM	DIVERSION	0	6	0	93	4	38	78	0	0	0	0	0	219 2/
1 WELL SE SW SW SEC 7 T8S R22W G&SRM	DIVERSION	0	215	40	0	99	116	172	132	116	40	0	0	930 2/
STURGES, STEVE 9 WELLS SEC 18 T8S R 21W & SEC. 'S 13 & 14 T8S R22W G&SRM	DIVERSION	563	1226	1269	1325	1234	1415	1439	1394	1036	676	204	317	12098 2/
YOWELMAN, R. 1 WELL NW SW SW SEC 17 T8S R22W G&SRM	DIVERSION													720

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

V (B)

SUPPLEMENTAL SHEETS

(ACRE-FEET) SHEET 2 OF 3

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

DIVERSIONS 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

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS 1/
CURTIS, A. (JENNINGS, A.) 1 PUMP SW NE SE SEC 29 T16S R22E SBM		0	3	8	11	14	15	0	0	0	0	30	0	81 2/
POWER, BILL 1 PUMP SW SW NE SEC 30 T16S R22E SBM														1980
POWER, R. E. (P. POWER) 1 PUMP SW SW NE SEC 30 T16S R22E SBM														1920
HALL, ANSIL 1 PUMP NW SW NW SEC 36 T16S R21E SBM														480
BURRELL 1 WELL NW NE NW SEC 25 T8S R24W G&SRM														192
ARIZONA	SUBTOTALS	648	1521	1411	1556	1518	1808	1883	1725	1314	790	328	379	14881
IMPERIAL DAM TO INTERNATIONAL BOUNDARY	DIVERSION 3/ DIVERSION 4/	432	1014	941	1045	1012	1206	1256	1151	876	527	218	252	9930
ARIZONA	TOTALS	1080	2535	2656	2823	4562	5713	3704	3295	2601	1812	812	631	32224

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 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 SW SEC 29 T9N R23E SBM	DIVERSION RETURN CONSUMPTIVE USE	126 29 97	144 26 118	214 25 189	255 32 223	261 35 226	444 44 400	414 67 347	398 74 324	360 49 311	331 65 266	212 41 171	175 37 138	3334 524 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 341 86821	62608 306 62302	106338 330 106008	108686 309 108377	112283 287 111996	109656 273 109383	112942 304 112638	112644 307 112337	109722 280 109442	112869 319 112550	109324 311 109013	92996 344 92652	1237230 3711 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/ DIVERSION 4/ RETURN CONSUMPTIVE USE	241 54	218 46	0 64	369 81	404 91	558 100	650 96	516 113	349 76	208 49	156 77	1 43	3670 890
PALO VERDE IRRIGATION DISTRICT DIVERSION FROM PALO VERDE DAM	DIVERSION RETURN CONSUMPTIVE USE	33880 30950 2930	66860 36364 30496	81004 40855 40149	93224 40290 52934	94871 44179 50692	93443 46336 47107	87667 53597 34070	88176 45581 42595	86225 44754 41471	49869 42423 7446	39535 38872 663	20151 38863 -18712	834905 503064 331841

15

1

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

V(B)

FINAL RECORDS

(ACRE-FEET) SHEET 2 OF 2

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS 1/
YUMA PROJECT RES. DIV. INDIAN UNIT DIVERSION AT IMPERIAL DAM	DIVERSION	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	DIVERSION	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	RETURN 2/	1767	1498	2433	1961	1998	416	595	1615	1735	2198	2122	2021	20359
IMPERIAL IRRIGATION DISTRICT DIVERSION AT IMPERIAL DAM	DIVERSION	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	DIVERSION	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	DIVERSION 6/ RETURN CONSUMPTIVE USE	4	3	4	7	8	11	10	10	8	6	5	4	80
OTHER USERS PUMPING FROM COLORADO RIVER AND WELLS IN FLOOD PLAIN DAVIS DAM TO INTERNATIONAL BOUNDARY	DIVERSION 3/	238	532	1479	1232	2502	2441	1637	1433	958	916	637	336	14341
CALIFORNIA TOTALS	DIVERSION	297850	365425	507637	568094	551909	510470	504927	505417	473939	419367	315183	203056	5223274
	RETURN	34095	38838	44518	43624	47414	47859	55372	51025	49935	47924	43291	42276	546171
	CONSUMPTIVE USE	263755	326587	463119	524470	504495	462611	449555	454392	424004	371443	271892	160780	4677103

2(a)

2(b)

2(c) 26831

3(a)

3(b)

4

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 PHREATOPHYTE USE.

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

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

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

V (B)

SUPPLEMENTAL SHEETS

(ACRE-FEET) SHEET 1 OF 3

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS 1/
SOTO BROTHERS														
1 WELL	DIVERSION													1512
SW NE SE SEC 36 T11N R22E														
SBM														
DEASON, RICHARD (TRI-STATE)														
1 WELL	DIVERSION													1200
NW NE NW SEC 31 T11N R22E														
SBM														
1 WELL	DIVERSION													960
SE NE SW SEC 36 T11N R21E														
SBM														
1 WELL	DIVERSION													960
SE NW NE SEC 31 T11N R21E														
SBM														
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	DIVERSION	0	48	45	84	98	72	64	50	0	0	0	0	461 2/
SW SE SE SEC 35 T15S R23E														
SBM														
LYE, R. L.														
1 WELL	DIVERSION													60
SE NE NW SEC 16 T16S R24E														
SBM														
PEREZ, F. (SLADE)														
1 WELL	DIVERSION	0	0	315	0	0	97	94	313	0	0	0	0	819 2/
NE SE SW SEC 6 T8S R22W														
G&SRM														
BARRETTI (R. HARP)														
1 WELL	DIVERSION													858
SE SW SW SEC 6 T8S R22W														
G&SRM														

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

V (B)

SUPPLEMENTAL SHEETS

(ACRE-FEET) SHEET 2 OF 3

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS	1/
SPENCER, M. 1 WELL SW NE SW SEC 9 T16S R23E G&SRM	DIVERSION	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	DIVERSION	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	DIVERSION	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	DIVERSION	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	DIVERSION	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	DIVERSION	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	DIVERSION													882	

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

V18)

SUPPLEMENTAL SHEETS

(ACRE-FEET) SHEET 3 OF 3

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS 1/
EASTERDAY, KENNETH														
1 WELL	DIVERSION	82	66	128	82	80	88	310	146	126	111	60	98	1377 2/
NW SE SW SEC 12 T8S R23W														
G&SRM														
SMITH, F. (P. POWER)														
1 WELL	DIVERSION	0	268	284	366	392	211	247	62	31	88	36	41	2026 2/
NE SW SE SEC 11 T8S R23W														
G&SRM														
MUSGRAVE (BARKLEY COMPANY)														
1 WELL	DIVERSION	7	5	6	6	5	5	5	5	6	3	0	2	55 2/
NE SE SW SEC 19 T16S R23E														
SBM														
CALIFORNIA SUBTOTALS	DIVERSION 3/	193	432	1039	875	954	552	1029	941	558	481	376	273	7703
IMPERIAL DAM TO INTERNATIONAL BOUNDARY	DIVERSION 4/	45	100	242	212	222	128	240	219	130	112	87	63	1800
CALIFORNIA TOTALS	DIVERSION	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.

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

V (B)

FINAL RECORDS

(ACRE-FEET) SHEET 1 OF 3

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS 1/
HOOVER DAM DIVERION AT HOOVER DAM	DIVERION RETURN CONSUMPTIVE USE	36	7	7	9	8	11	21	20	20	20	19	8	186
ROBERT B. GRIFFITH WATER PROJECT DIVERION AT SADDLE ISLAND, LAKE MEAD	DIVERION RETURN CONSUMPTIVE USE	7951	7535	9856	11950	16743	16540	15249	13311	13260	11682	9002	8631	141710
LAKE MEAD NATIONAL RECREATION AREA DIVERION AT LAKE MEAD	DIVERION RETURN CONSUMPTIVE USE	62	49	70	79	93	104	109	94	106	103	79	57	1005
BASIC MANAGEMENT INC. DIVERION AT SADDLE ISLAND, LAKE MEAD	DIVERION RETURN CONSUMPTIVE USE	798	697	841	878	1212	1286	1178	1077	1185	985	927	783	11847
NEVADA STATE DEPARTMENT OF FISH AND GAME DIVERION AT SADDLE ISLAND, LAKE MEAD	DIVERION RETURN CONSUMPTIVE USE	375 375 0	340 340 0	376 375 1	358 358 0	355 355 0	350 349 1	349 348 1	380 380 0	377 376 1	389 389 0	385 385 0	383 383 0	4417 4413 4
PACIFIC COAST BUILDING PRODUCTS INC. DIVERION AT GYPSUM WASH, LAKE MEAD	DIVERION RETURN CONSUMPTIVE USE	68	65	66	66	68	45	29	0	56	51	51	51	616
SOUTHERN CALIFORNIA EDISON COMPANY PUMPED FROM SEC 24 T32S R66E MDB&M	DIVERION RETURN CONSUMPTIVE USE	1355	1368	1586	1186	1140	1418	1718	1546	1427	690	414	350	14198
CLARK COUNTY PARKS & RECREATION DEPT. 1 PUMP SEC 1 T32S R66E MDB&M	DIVERION 2/ RETURN CONSUMPTIVE USE													6

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

V (B)

FINAL RECORDS

(ACRE-FEET) SHEET 2 OF 3

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS 1/
BIG BEND WATER DISTRICT 1 PUMP SEC 13 T32S R66E MDB&M	DIVERSION RETURN CONSUMPTIVE USE	0	0	0	0	0	0	0	0	0	12	8	11	31
RIO ALTA VISTA ESTATES 1 WELL SEC 24 T32S R66E MDB&M	DIVERSION 2/ RETURN CONSUMPTIVE USE													56
WIEBKE, ARMIN T. 1 PUMP SEC 33 T32S R66E MDB&M	DIVERSION 2/ RETURN CONSUMPTIVE USE													8
PORTENIER, WARREN E. 1 PUMP SEC 33 T32S R66E MDB&M	DIVERSION 2/ RETURN CONSUMPTIVE USE													42
MELLES, JOHN C. 1 PUMP SEC 33 T32S R66E MDB&M	DIVERSION 2/ RETURN CONSUMPTIVE USE													8
KNIGHT, JOHN B. 1 PUMP SEC 33 T32S R66E MDB&M	DIVERSION 2/ RETURN CONSUMPTIVE USE													5
BOY SCOUTS OF AMERICA 1 PUMP SEC 5 T33S R66E MDB&M	DIVERSION 2/ RETURN CONSUMPTIVE USE													10

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

V (B)

FINAL RECORDS

(ACRE-FEET) SHEET 3 OF 3

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS 1/
LAS VEGAS WASH RETURNS	RETURN 4/	5726	4749	5455	5562	5919	5450	6026	5706	5629	5754	5553	6711	68240
NEVADA TOTALS	DIVERSION	10645	10061	12802	14526	19619	19754	18653	16428	16431	13932	10885	10274	174145 3/
	RETURN	6101	5089	5830	5920	6274	5799	6374	6086	6005	6143	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

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

V (C)

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 1 OF 3

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
COLO. RIVER INDIAN RESERVATION DIVERSION AT HEADGATE ROCK	ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	1099	1607	1135	597	1805	6159	2432	3267	613	1353	426	214	20707
	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	67	0	258	50	103	317	50	496	139	58	87	0	1625
		1032	1607	877	547	1702	5842	2382	2771	474	1295	339	214	19082
YUMA PROVING GROUND U. S. ARMY DIVERSION AT IMPERIAL DAM 1/	ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	0	0	0	0	0	0	0	0	0	0	0	0	0
	DIVERTED BY OTHERS	0	0	0	0	0	0	0	0	0	0	0	0	0
	DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
NORTH GILA VALLEY I. D. DIVERSION AT IMPERIAL DAM	ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	819	766	781	748	547	1148	1539	1152	514	133	145	1351	9643
	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	284	145	258	65	52	349	149	175	288	22	75	141	2003
		535	621	523	683	495	799	1390	977	226	111	70	1210	7640
WARREN ACT CONTRACTORS GILA PROJECT DISTRICTS DIVERSION AT IMPERIAL DAM 1/	ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	0	0	0	0	0	0	0	0	0	0	0	0	0
	DIVERTED BY OTHERS	0	0	0	0	0	0	0	0	0	0	0	0	0
	DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
WELLTON-MOHAWK I. & D. DISTRICT DIVERSION AT IMPERIAL DAM	ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	4955	2664	5582	9380	12653	8049	13779	17806	9178	5685	4070	8196	101997
	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	1188	647	793	833	2059	1531	700	1309	2257	1672	772	276	14037
		3767	2017	4789	8547	10594	6518	13079	16497	6921	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

V (C)

(ACRE-FEET) SHEET 2 OF 3

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
YUMA IRRIGATION DISTRICT DIVERSION AT IMPERIAL DAM	ORDERED BUT NOT DIVERTED	635	573	504	821	377	899	2037	1115	448	426	1234	1740	10809
	DELIVERED TO MEXICO IN	0	0	0	0	0	0	0	0	0	0	0	0	0
	SATISFACTION OF TREATY	97	290	292	127	117	290	212	129	319	216	369	173	2631
	DIVERTED BY OTHERS	538	283	212	694	260	609	1825	986	129	210	865	1567	8178
	DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	0	0	0	0	0	0	0	0	0	0	0	0	0
YUMA MESA I. & D. DISTRICT DIVERSION AT IMPERIAL DAM	ORDERED BUT NOT DIVERTED	2676	3608	3441	3406	2327	799	4475	6226	1783	2095	1591	4249	36676
	DELIVERED TO MEXICO IN	0	0	0	0	0	0	0	0	0	0	0	0	0
	SATISFACTION OF TREATY	776	1000	904	518	617	165	85	244	573	664	339	155	6040
	DIVERTED BY OTHERS	1900	2608	2537	2888	1710	634	4390	5982	1210	1431	1252	4094	30636
	DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	0	0	0	0	0	0	0	0	0	0	0	0	0
UNIT "B" I. & D. DISTRICT DIVERSION AT IMPERIAL DAM	ORDERED BUT NOT DIVERTED	246	175	417	526	180	361	1347	641	470	436	173	1006	5978
	DELIVERED TO MEXICO IN	0	0	0	0	0	0	0	0	0	0	0	0	0
	SATISFACTION OF TREATY	95	73	54	56	12	115	83	171	262	192	30	52	1195
	DIVERTED BY OTHERS	151	102	363	470	168	246	1264	470	208	244	143	954	4783
	DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	0	0	0	0	0	0	0	0	0	0	0	0	0
CITY OF YUMA DIVERSION AT IMPERIAL DAM	ORDERED BUT NOT DIVERTED	0	0	0	0	0	10	261	10	0	0	71	281	633
	DELIVERED TO MEXICO IN	0	0	0	0	0	0	0	0	0	0	0	0	0
	SATISFACTION OF TREATY	0	0	0	0	0	7	35	1	0	0	13	12	68
	DIVERTED BY OTHERS	0	0	0	0	0	3	226	9	0	0	58	269	565
	DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	0	0	0	0	0	0	0	0	0	0	0	0	0
YUMA COUNTY WATER USERS ASSN. DIVERSION AT IMPERIAL DAM	ORDERED BUT NOT DIVERTED	1470	1487	1600	2645	2218	1208	5322	1427	296	444	3470	3052	24639
	DELIVERED TO MEXICO IN	0	0	0	0	0	0	0	0	0	0	0	0	0
	SATISFACTION OF TREATY	865	1361	979	1073	1608	819	707	124	190	113	644	133	8616
	DIVERTED BY OTHERS	605	126	621	1572	610	389	4615	1303	106	331	2826	2919	16023
	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 1984
STATE OF ARIZONA

V (C)

(ACRE-FEET) SHEET 3 OF 3

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
COCOPAH INDIAN RESERVATION DIVERSION AT IMPERIAL DAM	ORDERED BUT NOT DIVERTED	0	7	1	1	9	4	14	5	0	0	0	3	44
	DELIVERED TO MEXICO IN	0	0	0	0	0	0	0	0	0	0	0	0	0
	SATISFACTION OF TREATY	0	6	1	0	7	3	2	0	0	0	0	0	19
	DIVERTED BY OTHERS	0	1	0	1	2	1	12	5	0	0	0	3	25
	DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	0	0	0	0	0	0	0	0	0	0	0	0	0
ARIZONA TOTALS	ORDERED BUT NOT DIVERTED	11900	10887	13461	18124	20116	18637	31206	31649	13302	10572	11180	20092	211126
	DELIVERED TO MEXICO IN	0	0	0	0	0	0	0	0	0	0	0	0	0
	SATISFACTION OF TREATY	3372	3522	3539	2722	4575	3596	2023	2649	4028	2937	2329	942	36234
	DIVERTED BY OTHERS	8528	7365	9922	15402	15541	15041	29183	29000	9274	7635	8851	19150	174892
	DELIVERED TO STORAGE 2/ DELIVERED TO MEXICO IN EXCESS OF TREATY	0	0	0	0	0	0	0	0	0	0	0	0	0

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

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

V (C)

AND
QUANTITY OF SUCH WATER DELIVERED TO MEXICO IN SATISFACTION OF MEXICAN TREATY OR DIVERTED BY OTHERS
CALENDAR YEAR 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	ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	1438	1352	3297	5314	5517	4344	4858	5156	4278	4931	4676	3409	48570
	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	4676	3409	48570
		0	0	0	0	0	0	0	0	0	0	0	0	0
PALO VERDE IRRIGATION DISTRICT DIVERSION AT PALO VERDE DAM	ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	4104	4388	4862	5445	3927	4453	5994	4750	4739	5504	3802	2432	54400
	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	125	1103	795	617	585	843	833	849	1527	672	1333	641	9923
		3979	3285	4067	4828	3342	3610	5161	3901	3212	4832	2469	1791	44477
YUMA PROJECT RESV. DIVISION BARD UNIT DIVERSION AT IMPERIAL DAM	ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	561	550	845	990	1096	1017	1758	1368	1362	790	1817	1807	13961
	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	435	502	640	520	785	782	398	441	959	571	917	497	7447
		126	48	205	470	311	235	1360	927	403	219	900	1310	6514
YUMA PROJECT RESV. DIVISION INDIAN UNIT DIVERSION AT IMPERIAL DAM	ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	478	378	663	650	586	459	914	1280	754	585	1384	1300	9431
	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	370	345	501	341	419	353	207	412	531	423	698	357	4957
		108	33	162	309	167	106	707	868	223	162	686	943	4474
IMPERIAL IRRIGATION DISTRICT DIVERSION AT IMPERIAL DAM	ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	1505	1503	1817	659	1095	48	6565	9126	1468	1144	11471	9892	46293
	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	109	577	538	292	167	12	83	458	171	593	1299	551	4850
		1396	926	1279	367	928	36	6482	8668	1297	551	10172	9341	41443

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

V (C)

(ACRE-FEET) SHEET 2 OF 2

WATER USER		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
COACHELLA VALLEY WATER DIST. DIVERSION AT IMPERIAL DAM	ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	1648	1035	288	1027	1811	1950	5002	1444	611	682	1976	1863	19337
	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	1097	990	208	478	986	1525	740	125	248	458	877	486	8218
		551	45	80	549	825	425	4262	1319	363	224	1099	1377	11119
CALIFORNIA TOTALS	ORDERED BUT NOT DIVERTED DELIVERED TO MEXICO IN SATISFACTION OF TREATY	9734	9206	11772	14085	14032	12271	25091	23124	13212	13636	25126	20703	191992
	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	2136	3517	2682	2248	2942	3515	2261	2285	3436	2717	5124	2532	35395
		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

CALENDAR YEAR 1984

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

V (D)

(ACRE-FEET)

WATER USER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
DELIVERIES TO MEXICO IN SATISFACTION OF TREATY 1/	55370	51798	248062	225680	121406	174413	213546	233303	96537	67170	56749	155966	1700000
PASSING TO MEXICO IN EXCESS OF TREATY REQUIREMENTS 2/ 3/	1532085	1349634	1032082	867289	996503	1116892	1255095	1116112	1084685	1129428	1164716	1274111	13918632

15.6

- 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.

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 1984

DIVERSIONS 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)

(ACRE-FEET)

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