

UNITED STATES
DEPARTMENT OF THE INTERIOR
Rogers C. B. Morton, Secretary

BUREAU OF RECLAMATION
Ellis L. Armstrong, Commissioner

REGION 3
E. A. Lundberg, 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

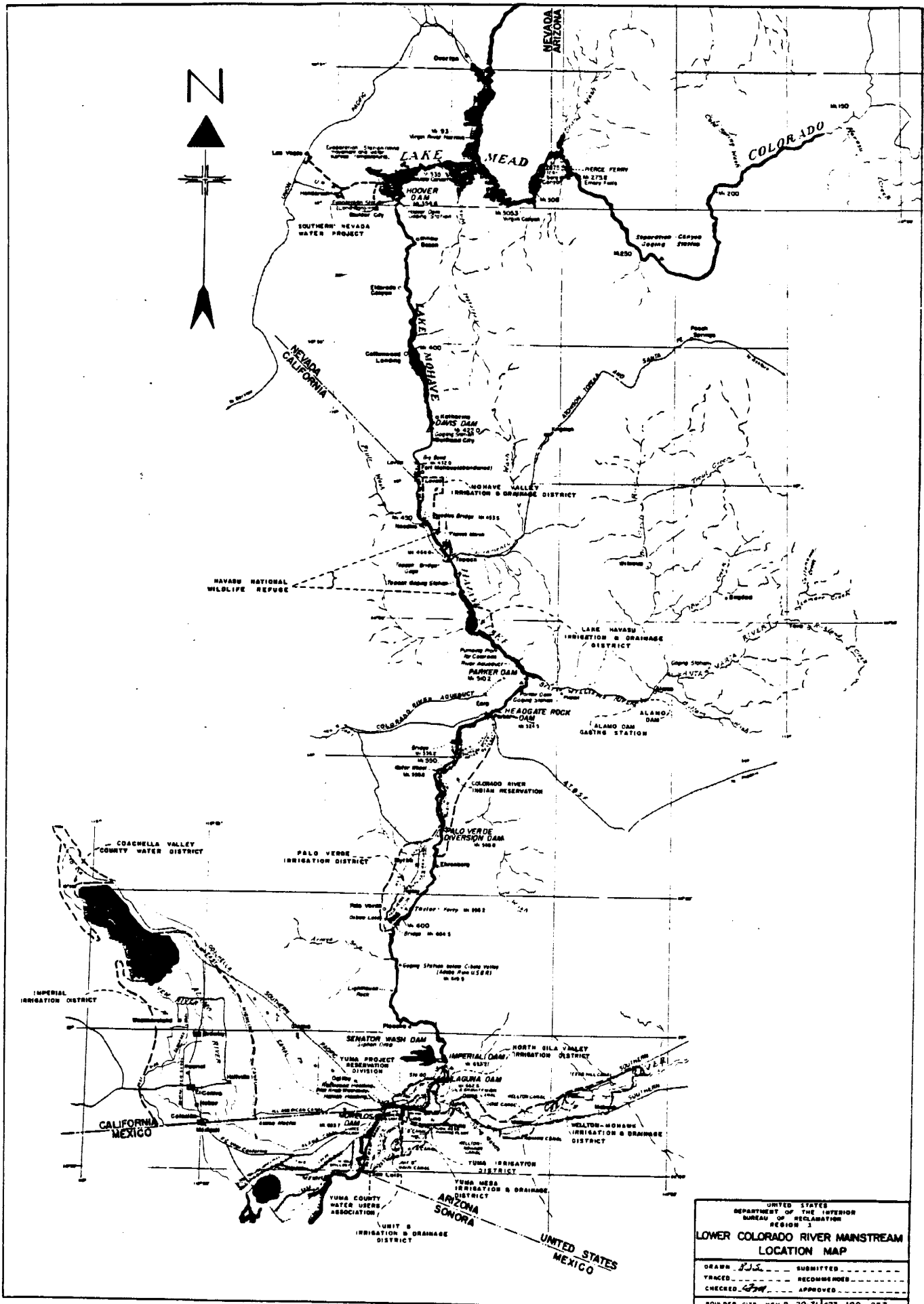
CALENDAR YEAR 1970

Division of Water and Land Operations
Boulder City, Nevada

September 20, 1971

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UNITED STATES
 DEPARTMENT OF THE INTERIOR
 BUREAU OF RECLAMATION
 REGION 2
**LOWER COLORADO RIVER MAINSTREAM
 LOCATION MAP**
 DRAWN *B. L. ...* SUBMITTED
 TRACED RECOMMENDED
 CHECKED *...* APPROVED
 BOULDER CITY, NEV 9-20-71 423-100-957

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 1970

The following tabulations for calendar year 1970 show final records of releases of water through regulatory structures controlled by the United States. At Hoover, Davis, Parker, Palo Verde, and Imperial Dams the records are furnished by the Geological Survey based on measurements at or below the structures. Studies are being continued to verify the accuracy of the flowmeters at Hoover Dam where water budget studies indicate the meters may be underregistering the flow.

The record of riverflow through Headgate Rock Dam was computed using the record of flow at the gaging station "Colorado River below Parker Dam, Arizona-California," and deducting from it the record of flow at the gaging station "Diversions for Colorado River Indian Reservation, near Parker, Arizona." The diversions are made at Headgate Rock Dam.

The record of flow through Laguna Dam was computed by adjusting the record of flow through Imperial Dam by storage changes in the reservoir above Laguna Dam.

RELEASE OF WATER THROUGH REGULATORY STRUCTURES
CONTROLLED BY THE UNITED STATES

VIA

CALENDAR YEAR 1970

Final Records
(ACRE - FEET)

Structure	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Hoover Dam	602,500	535,600	753,100	918,800	926,700	780,200	792,300	676,500	507,000	583,300	449,600	497,100	8,023,000
Davis Dam	463,700	571,600	782,200	953,400	819,800	859,100	907,800	755,000	630,600	558,400	401,500	420,700	8,124,000
Parker Dam	366,900	442,000	653,700	750,300	657,100	705,700	792,200	674,600	530,000	453,700	303,900	328,000	6,658,000
Headgate Rock Dam 1/	348,600	402,900	607,300	697,700	596,900	643,500	716,900	604,300	476,400	411,800	271,900	299,800	6,078,000
Palo Verde Diversion Dam 2/	318,700	345,400	532,200	609,500	498,400	532,800	591,000	490,800	393,700	372,500	236,400	266,800	5,188,000
Imperial Dam	7,230	16,500	46,830	24,880	17,180	17,600	22,300	22,190	14,730	18,510	16,700	14,900	239,600
Laguna Dam 3/	5,630	18,100	46,830	23,730	17,280	18,250	22,100	21,190	15,780	18,410	16,500	15,150	238,950

1/ Colorado River below Parker Dam less diversions at Headgate Rock Dam.

2/ Measured through river gates at Palo Verde Dam.

3/ Colorado River below Imperial Dam adjusted by storage change in the reservoir above Laguna Dam.

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 1970

The following tabulations for calendar year 1970, 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 Geological Survey, International Boundary and Water Commission, Bureau of Indian Affairs, Bureau of Reclamation, National Park Service, Bureau of Sport Fisheries and Wildlife, and water user agencies. Diversions to All-American Canal and Gila Gravity Main Canal at Imperial Dam were assigned to each user based on deliveries to each user at its turnout from the canal and a prorated amount of the conveyance loss from the canal. The loss proration was based on the quantity delivered to each user and the length of the canal through which it was carried.

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

water pumped by each diverter between Davis Dam and the International Boundary. The estimate of diversion by pumping during 1970 was made by two basic methods: (1) For most electric pumps, diversion was computed on a monthly basis from power records and a "kwh per acre-foot factor" that was determined by discharge measurements. (2) For pumps other than electric, a factor of 6 acre-feet per irrigated acre per year was used. Inventories of irrigated acres were determined by field inventory during the year made with the aid of aerial photographs which were taken during April 1970.

There may be undetermined amounts of unmeasured return flow reaching the Colorado River by means of underground flow from aquifers underlying water use areas. A Task Force on Ground-Water Return Flows to the Lower Colorado River, consisting of State and Federal members, was organized during 1970 to provide advice and guidance to the Bureau of Reclamation and the Geological Survey which are jointly conducting a study to determine the location and amounts of such unmeasured return flows. When quantities are determined they will be credited to the affected users and States in making the consumptive use computations.

DIVERSTIONS FROM MAINSTREAM - AVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SUCH WATER

V(B)

CALENDAR YEAR 1970
STATE OF ARIZONA

Sheet 1 of 4
Final Records
(ACRE FEET)

Water User	CALENDAR YEAR 1970												TOTALS
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
Lake Mead National Recreation Area (Diversion from Lake Mohave)	11	12	12	15	21	24	30	29	26	24	17	12	233 1/
Mohave Valley Irrigation and Drainage District (Pumped from wells and from inlet channel to Havasu National Wildlife Refuge)	513	662	478	1,711	1,659	1,572	1,851	1,791	1,696	1,033	1,445	347	13,758 1/
Havasu National Wildlife Refuge Inlet - NW1/4NW4, Sec. 33, T. 9 N., R. 23 E., SBM Less diversion from inlet channel by pump in SE1/4SE1, Sec. 24, T. 17 N., R. 22 W., G&SRM	0	100	3,360	1,760	1,840	3,050	5,430	6,480	9,770	8,500	3,350	0	43,660
I well - NE1/4NE4, Sec. 15, T. 8 N., R. 23 E., SBM	0	0	0	0	0	0	0	1,530	873	1,970	1,370	0	5,743 36,137
Outlet - SW1/4SE1, Sec. 27, T. 16 N., R. 21 W., G&SRM	167	154	198	263	334	395	413	395	362	299	219	166	3,365 1/
Lake Havasu Irrigation and Drainage District (Pumped from wells)	25	26	28	41	63	70	92	92	77	48	35	26	683 1/
Town of Parker I well NW1/4NW4, Sec. 7, T. 9 N., R. 19 W., G&SRM I well SW1/4NE4, Sec. 13, T. 9 N., R. 20 W., G&SRM	18,290	39,140	46,440	52,640	60,190	62,170	75,310	70,260	53,590	41,940	31,980	28,210	580,160 41
Colorado River Indian Reservation (Diversion at Headgate Rock Dam) (Pumped from 2 wells at Parker) SW1/4SE1, Sec. 2, T. 9 N., R. 20 W., G&SRM	3	3	3	3	4	4	4	4	4	3	3	3	3
(Pumped from well at Valley Field Office) NW1/4NE4, Sec. 1, T. 8 N., R. 21 W., G&SRM	1	1	1	1	2	2	2	2	2	1	1	1	17
(Pumped from 4 wells at Poston) NW1/4, Sec. 36, T. 8 N., R. 21 W., G&SRM	2	3	3	3	4	4	4	4	4	3	3	2	39
(3 pumps) SW1/4NE4, Sec. 14, T. 5 N., R. 22 W., G&SRM	841	580	796	1,603	1,138	723	1,229	1,758	1,549	1,580	1,310	845	13,952

DIVERSIONS FROM MAINSTREAM - AVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SUCH WATER

V (8)

Sheet 2 of 4

Final Records

(ACRE FEET)

CALENDAR YEAR 1970

STATE OF ARIZONA

Water User	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
(2 pumps) NE 15th St., Sec. 14, T. 4 N., R. 22 W., G&SRM	66	147	193	341	512	486	359	617	486	286	346	274	4,113
Diversion 3/													
Return	21,160	19,030	31,820	36,160	35,480	34,500	35,970	36,260	32,620	32,170	28,660	26,250	370,080
Consumptive Use	-1,957	20,844	15,616	18,431	26,370	28,889	40,938	36,385	23,015	11,643	4,983	3,085	288,242
Imperial National Wildlife Refuge 1 well NW 1/4, Sec. 13, T. 5 S., R. 22 W., G&SRM 1 well SW 1/4, Sec. 13, T. 5 S., R. 22 W., G&SRM													68 2/3 146 2/3 1/
Diversion													
Return													
Consumptive Use													
Yuma Proving Ground, U.S. Army (Diversion at Imperial Dam)	3	1	7	6	0	5	0	0	0	0	0	1	23 1/2
Diversion													
Return													
Consumptive Use													
North Gila Valley Irrigation District (Diversion at Imperial Dam)	2,577	4,723	3,520	5,348	5,024	5,429	5,886	4,681	4,642	4,921	4,042	2,555	53,348
Diversion	198	524	580	618	701	762	830	832	779	788	797	744	8,153
Return	2,079	4,199	2,940	4,730	4,323	4,667	5,056	3,849	3,863	4,133	3,245	1,811	44,895
Consumptive Use													
Wilton-Mohawk Irrigation and Drainage District (Diversion at Imperial Dam)	23,241	30,942	39,222	59,880	58,879	53,545	61,616	56,303	50,554	33,442	23,251	18,310	511,252
Diversion	19,070	15,810	18,240	18,670	17,200	17,220	18,650	17,500	16,590	18,700	18,410	19,050	215,310
Return	4,171	15,132	20,982	41,210	41,679	36,325	42,966	38,803	33,964	14,742	4,841	1,327	256,342
Consumptive Use													
Yuma Irrigation District (Diversion at Imperial Dam) (Pumped from private wells)	1,820	3,511	3,809	5,405	6,091	5,760	5,281	4,660	3,985	4,385	3,245	2,189	50,141
Diversion	1,241	1,447	1,592	2,605	1,944	2,295	2,544	1,985	1,675	1,592	1,117	641	20,678
Return													
Consumptive Use													
Yuma Mesa Irrigation and Drainage District (Diversion from Imperial Dam)	12,303	9,045	14,110	23,739	27,961	31,241	33,284	33,297	27,502	19,845	14,541	12,973	259,841 6/1
Diversion													
Return													
Consumptive Use													
Unit "B" Irrigation and Drainage District (Diversion at Imperial Dam)	1,985	1,596	2,084	3,361	3,673	4,740	5,405	5,234	4,707	3,024	2,666	1,751	40,226 7/1
Diversion													
Return													
Consumptive Use													
Returns from South Gila Valley City of Yuma (Diversion at Imperial Dam)	6,630	4,880	8,940	8,120	2,070	4,050	7,290	4,770	2,410	3,020	3,730	5,580	61,490
Diversion													
Return													
Consumptive Use													
Imperial National Wildlife Refuge 1 well NW 1/4, Sec. 13, T. 5 S., R. 22 W., G&SRM 1 well SW 1/4, Sec. 13, T. 5 S., R. 22 W., G&SRM	688	577	656	858	1,157	1,385	1,541	1,486	1,070	940	723	618	11,617
Diversion	573	482	589	799	1,137	1,373	1,506	1,448	1,065	925	726	618	11,323
Return	223	185	287	288	260	262	264	268	268	268	268	268	268
Consumptive Use													

Footnotes are on pages 10 and 11

DIVERSIONS FROM MAINSTREAM - AVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SUCH WATER

CALENDAR YEAR 1970
STATE OF ARIZONA

V(B)

Sheet 3 of 4
Final Records
(ACRE - FEET)

Water User	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Yuma County Water Users' Association (Diversion at Imperial Dam) (Pumped from wells)	15,247 938 11,171 5,014	23,382 816 10,702 13,496	22,048 874 12,102 10,820	33,012 723 12,269 21,466	35,558 1,002 12,762 23,798	30,276 1,041 12,041 19,236	33,988 1,054 12,147 22,895	26,464 1,037 12,211 15,288	29,071 1,037 11,283 18,255	26,194 1,111 13,196 14,109	15,789 932 12,416 4,305	11,025 969 12,336 -342	302,034 11,532 144,936 168,630
Cocopah Indian Reservation (Diversion at Imperial Dam) (Pumped from wells)	24 2	12 0	45 2	110 2	51 1	100 4	83 3	63 2	122 4	19 1	0 0	54 5	683 26 2/
Other Users Pumping from Colorado River and wells from flood plain Davis Dam to International Boundary 10/	4,197	4,431	6,361	6,482	7,579	8,150	8,789	7,634	5,918	6,001	4,646	3,013	86,332 75,201 1/
ARIZONA TOTALS	84,125 58,604 25,637	121,291 51,008 70,848	145,862 71,751 74,530	199,912 75,896 123,371	214,687 68,233 146,018	212,451 66,385 143,599	244,198 74,922 169,882	228,276 73,141 152,300	197,853 64,860 133,211	155,192 69,859 84,445	108,667 65,386 42,633	86,049 63,952 21,892	2,500,176 4,992,997 866,197 1,186,800 1,201,441 See '74
<p>NOTE: The term "consumptive use" in this tabulation means measured diversion less measured return to river.</p> <p>1/ No surface returns. 2/ Monthly distribution not available. 3/ Calculated from monthly power records. 4/ Includes 54,682 acre-feet delivered to Mexico in excess of minimum treaty requirements pursuant to provisions of Minute No. 218. 5/ Pumped from underground and unassigned to districts as returns include quantities of drainage from Yuma Mesa as well as from South Gila Valley. 6/ Includes deliveries to the following water users who have contracts with the United States.</p>													
Contractor	<p>Point of Delivery</p> <p>City of Yuma Desert Lawn Memorial Association Southern Pacific Company Southern Pacific Company Ritz Distribution Company Yuma Mesa Fruit Growers Association County of Yuma, Arizona Marine Corps Air Station, Dept. of Navy</p> <p>Annual Delivery</p> <p>35 105 12 48 10 10 20 20 2,027 2,267</p>												
Total	<p>2,267</p> <p>813 90</p>												
<p>7/ Includes deliveries to the following users who have contracts with the United States. University of Arizona Camille Allec, Jr.</p>													

V(B)

DIVERSIONS FROM MAINSTREAM - AVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SUCH WATER

CALENDAR YEAR 1970
STATE OF ARIZONA

Sheet 4 of 4
Final Records
(ACRE FEET)

JANUARY FEBRUARY MARCH APRIL MAY JUNE JULY AUGUST SEPTEMBER OCTOBER NOVEMBER DECEMBER TOTALS

8/ Includes deliveries to the following water user who has a contract with the United States.

Yuma Union High School District

Yuma Main Canal

175

9/ Returns include unknown quantities of drainage returns from Yuma Mesa Irrigation and Drainage District and Unit "g" Irrigation and Drainage District as well as from Yuma County Water Users' Association and Cocopah Indian Reservation. Details on Arizona Supplemental sheets 1 - 5.

10/ The total is 1,566 acre-feet less than the sum of the monthly totals because of nonavailability of monthly distribution of items footnoted 2/.

V(8) Supplemental Sheet 1 of 5
 Other users pumping from
 Colorado River and wells
 in flood plain

DIVERSIONS FROM MAINSTREAM - AVAILABLE RETURN FLOW
 AND CONSUMPTIVE USE OF SUCH WATER
 CALENDAR YEAR 1970
 STATE OF ARIZONA

(ACRE - FEET)

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Clayton Farms 2 Pumps SE ¹ / ₄ SW ¹ / ₄ SW ¹ / ₄ sec. 34, T.4 N., R.22 W., G and SRM	1	3	1,143	0	124	640	225	834	507	410	142	59	4,088 2/
Clayton Farms 1 Well SW ¹ / ₄ SW ¹ / ₄ SE ¹ / ₄ sec. 34, T.4 N., R.22 W., G and SRM	0	0	168	0	20	32	29	27	29	25	22	0	352 2/
Barrett, F. Wayne 2 Pumps NW ¹ / ₄ NE ¹ / ₄ SE ¹ / ₄ sec. 16, T.3 N., R.22 W., G and SRM													2,640
Van Horn, George 1 Pump SE ¹ / ₄ SW ¹ / ₄ NE ¹ / ₄ sec. 28, T.3 N., R.22 W., G and SRM													960
Sprall, Wayne 1 Pump SE ¹ / ₄ SW ¹ / ₄ NW ¹ / ₄ sec. 21, T.1 N., R.23 W., G and SRM													1,830
Cibola Valley Irrigation and Drainage District 3 Pumps SE ¹ / ₄ SE ¹ / ₄ NE ¹ / ₄ sec. 20, T.1 N., R.23 W., G and SRM	1,840	1,055	1,752	1,750	2,745	2,928	3,500	3,087	1,915	2,292	1,695	1,043	25,602 2/
Peters 1 Pump SE ¹ / ₄ NW ¹ / ₄ NE ¹ / ₄ sec. 2, T.1 S., R.24 W., G and SRM													2,160
Snitzer and Cockrell 1 Pump NW ¹ / ₄ RW ^{1 SW¹/₄ sec. 1, T.2 S., R.24 W., G and SRM}													2,280
Snitzer and Cockrell 1 Pump NE ¹ / ₄ NW ¹ / ₄ NW ¹ / ₄ sec. 31, T.1 S., R.23 W., G and SRM													3,300
Subtotals - Davis Dam to Imperial Dam	1,841	1,058	3,063	1,750	2,889	3,600	3,754	3,048	2,451	2,727	1,859	1,102	30,042
Pratt, Loren 1 Well NW ¹ / ₄ SW ¹ / ₄ NE ¹ / ₄ sec. 14, T.7 S., R.22 W., G and SRM	515	866	983	1,322	1,384	1,402	1,660	1,431	1,200	932	793	682	13,170
1 Pump SE ¹ / ₄ SW ¹ / ₄ NW ¹ / ₄ sec. 14, T.7 S., R.22 W., G and SRM													450

Sluiceway (1971 Report)

DIVERSIONS FROM MAINSTREAM - AVAILABLE RETURN FLOW

AND CONSUMPTIVE USE OF SUCH WATER

CALENDAR YEAR 1970

STATE OF ARIZONA

V(8) Supplemental Sheet 2 of 5
Other users pumping from
Colorado River and wells
in flood plain

(ACRE - FEET)

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Tudor, Tom 1 Well SW ¹ / ₄ NE ¹ / ₄ SE ¹ / ₄ sec.8, T.8 S., R.22 W., G and SRM													1,104
Croze, James 1 Well SE ¹ / ₄ SW ¹ / ₄ SW ¹ / ₄ sec.7, T.8 S., R.22 W., G and SRM	55	22	79	174	90	108	53	90	72	35	0	0	778 2/
Fletcher and Moenk 1 Well SE ¹ / ₄ NW ¹ / ₄ SW ¹ / ₄ sec.18, T.8 S., R.22 W., G and SRM	17	102	70	123	140	272	359	227	104	232	133	33	1,812 2/
Fletcher and Moenk 1 Well SE ¹ / ₄ SE ¹ / ₄ SE ¹ / ₄ sec.18, T.8 S., R.22 W., G and SRM 1 Pump SW ¹ / ₄ SE ¹ / ₄ NE ¹ / ₄ sec.24, T.8 S., R.23 W., G and SRM													1,752
Shattuck and Whitman Ranch 1 Well SE ¹ / ₄ NE ¹ / ₄ SW ¹ / ₄ sec.24, T.8 S., R.22 W., G and SRM													10
Barr, Earl 1 Well SE ¹ / ₄ NE ¹ / ₄ NE ¹ / ₄ sec.13, T.8 S., R.23 W., G and SRM													1,080
Pratt, Frank 1 Well SE ¹ / ₄ SW ¹ / ₄ SW ¹ / ₄ sec.19, T.8 S., R.22 W., G and SRM	81	154	66	117	90	121	188	188	113	42	28	26	1,234 2/
Pratt, Frank 1 Well SW ¹ / ₄ SW ¹ / ₄ SE ¹ / ₄ sec.24, T.8 S., R.23 W., G and SRM	75	100	57	116	22	0	23	0	0	0	0	93	486 2/
Mauldin, Lee 1 Well NE ¹ / ₄ SE ¹ / ₄ SW ¹ / ₄ sec.23, T.8 S., R.23 W., G and SRM	8	2	49	19	31	120	74	17	74	27	21	10	452 2/
Bruce Church Company 1 Well SW ¹ / ₄ SE ¹ / ₄ SE ¹ / ₄ sec.22, T.8 S., R.23 W., G and SRM	33	20	18	35	35	16	0	0	0	32	21	6	216 2/
Power, Pete 1 Well NW ¹ / ₄ SW ¹ / ₄ W ¹ / ₄ sec.31, T.16 S., R.23 E., SRM													684

DIVERSIONS FROM MAINSTREAM - AVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SUCH WATER

V(8) Supplemental Sheet 3 of 5
Other users pumping from
Colorado River and wells
in flood plain

CALENDAR YEAR 1970

STATE OF ARIZONA

(ACRE FEET)

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS 1/
Mauldin, Lee 1 Well NE 1/4 SE 1/4 SW 1/4 sec. 28, T.16 S., R.22 E., SBM	25	30	21	34	24	0	1	0	1	1	0	40	177 2/
Curtis, Armon 1 Pump SW 1/4 NE 1/4 SE 1/4 sec. 29, T.16 S., R.22 E., SBM	15	17	0	12	19	28	18	22	0	0	0	0	131 2/
Power, Bill 1 Pump SW 1/4 NE 1/4 sec. 30, T.16 S., R.22 E., SBM													1,980
Power, R. E. 1 Pump NW 1/4 SW 1/4 NE 1/4 sec. 30, T.16 S., R.22 E., SBM													1,920
Yucca Power Plant 2 Wells NE 1/4 SW 1/4 sec. 36, T.16 S., R.21 E., SBM NE 1/4 SW 1/4 sec. 36, T.16 S., R.21 E., SBM													1,920
Burrell 1 Well SW 1/4 NE 1/4 sec. 33, T.8 S., R.24 W., G and SBM													180
Cannon, J. O. 1 Well NW 1/4 NE 1/4 sec. 25, T.9 S., R.25 W., G and SBM													480
Sterling, Paul 1 Well SE 1/4 NE 1/4 sec. 19, T.9 S., R.24 W., G and SBM	55	51	68	28	1	0	0	0	55	26	18	10	312 2/
Sterling, Paul 1 Well NE 1/4 SE 1/4 NW 1/4 sec. 19, T.9 S., R.24 W., G and SBM	38	36	47	16	21	0	1	6	47	16	11	7	262 2/
Sterling, Paul 1 Well NE 1/4 SE 1/4 NW 1/4 sec. 19, T.9 S., R.24 W., G and SBM	37	34	46	16	1	0	0	0	0	17	13	7	171 2/
McDaniel and Son 1 Well NE 1/4 NE 1/4 sec. 36, T.9 S., R.25 W., G and SBM	296	291	266	355	354	409	425	94	3	406	348	267	3,514 2/

NIEB
444 2/

DIVERSIONS FROM MAINSTREAM - AVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SUCH WATER
CALENDAR YEAR 1970
STATE OF ARIZONA

V(8) Supplemental Sheet 4 of 5
Other users pumping from
Colorado River and wells
in flood plain

		(ACRE - FEET)												
		JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS 1/
Brand, Wayne	Diversion													858
1 Well														
NE 1/4 NW 1/4 sec. 25, T.9 S., R.25 W., G and SRM														
Sibley, Phil	Diversion	205	176	193	456	409	555	512	222	195	162	223	77	3,385 2/
1 Well														
NE 1/4 NW 1/4 sec. 1, T.10 S., R.25 W., G and SRM														
Jeffers, Floyd	Diversion													1,134
1 Well														
NE 1/4 SE 1/4 SW 1/4 sec. 2, T.10 S., R.25 W., G and SRM														
Sibley, Phil	Diversion	71	42	95	97	121	0	29	102	66	0	47	13	683 2/
1 Well														
NW 1/4 SE 1/4 sec. 14, T.10 S., R.25 W., G and SRM														
Daniel, A. T.	Diversion													360
1 Pump														
SW 1/4 SW 1/4 sec. 23, T.10 S., R.25 W., G and SRM														
Lee, James W.	Diversion													816
1 Well														
NW 1/4 NE 1/4 NW 1/4 sec. 26, T.10 S., R.25 W., G and SRM														
Hunter, J. C.	Diversion													210
1 Pump														
NE 1/4 NW 1/4 NW 1/4 sec. 35, T.10 S., R.25 W., G and SRM														
Barkley, J.	Diversion													360
1 Well														
NW 1/4 NW 1/4 SW 1/4 sec. 35, T.10 S., R.25 W., G and SRM														
Brown, Willis A.	Diversion	88	55	70	95	82	25	17	16	101	0	0	38	587 2/
1 Well														
NE 1/4 NW 1/4 NW 1/4 sec. 2, T.11 S., R.25 W., G and SRM														
Hughes, Earl	Diversion	45	307	141	205	240	108	119	60	103	149	410	96	1,983 2/
1 Well														
SW 1/4 NE 1/4 SE 1/4 sec. 3, T.11 S., R.25 W., G and SRM														
Subtotals - Imperial Dam to Boundary		1,144	1,439	1,306	1,898	1,680	1,762	1,819	1,044	934	1,145	1,273	723	16,167
	3/	697	1,068	1,009	1,512	1,626	1,386	1,556	1,211	1,333	1,197	721	506	33,822
	5/	4,197	4,431	6,361	6,482	7,579	8,150	8,789	7,634	5,918	6,001	4,646	3,013	49,201
TOTAL - Other Arizona users pumping from Colorado River and wells in flood plain Davis Dam to International Boundary - included in Arizona totals on PAGE														61

SEE 1971 REPORT

Footnotes are on page 16

DIVERSTIONS FROM MAINSTREAM - AVAILABLE RETURN FLOW

AND CONSUMPTIVE USE OF SUCH WATER

CALENDAR YEAR 1970

STATE OF ARIZONA

V(B)

Supplemental Sheet 5 of 5
Other users pumping from
Colorado River and wells
in flood plain

(ACRE - FEET)

JANUARY FEBRUARY MARCH APRIL MAY JUNE JULY AUGUST SEPTEMBER OCTOBER NOVEMBER DECEMBER TOTALS

Footnotes:

- 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 average power-discharge rate.
- 3/ Total of items for which monthly distribution is shown.
- 4/ Total of items for which monthly distribution is not shown. Distributed according to monthly distribution of diversions of Colorado River Indian Reservation and Palo Verde Irrigation District.
- 5/ Record furnished by diverter.
- 6/ Total of items for which monthly distribution is not shown. Distributed according to monthly distribution of diversions to Valley Division of Yuma Project.

DIVERSIONS FROM MAINSTREAM - AVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SUCH WATER

V(B)

CALENDAR YEAR ~~1968~~ 1969

STATE OF ARIZONA

Final Records
(ACRE FEET)

Water User	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
<u>Revision to 1969 Report</u>													
Colorado River Indian Reservation (Diversion at Headgate Rock Dam)	14,050	32,750	56,490	45,470	54,190	58,460	65,670	66,700	43,230	33,710	24,500	25,760	580,980
(Pumped from wells at Parker)													
2 wells	3	3	3	3	3	4	4	4	3	3	3	3	39
Su ₁ NE ₁ SE ₁ , Sec. 2, T. 9 N., R. 20 W., G&SRM													
(Pumped from well at Valley Field Office)													
1 well	0	0	1	1	1	1	1	1	0	0	0	0	6
Ru ₁ NE ₁ W ₁ , Sec. 1, T. 8 N., R. 21 W., G&SRM													
(Pumped from wells at Poston)													
4 wells	1	2	2	2	2	2	2	2	2	2	2	1	22
W ₁ , Sec. 36, T. 8 N., R. 21 W., G&SRM													
4 Pumps													
Su ₁ SW ₁ NE ₁ , Sec. 14, T. 5 N., R. 22 W., G&SRM	0	157	224	256	409	821	1,922	1,640	706	316	152	185	6,788
1 Pump													
Ne ₁ SW ₁ W ₁ , Sec. 14, T. 4 N., R. 22 W., G&SRM	46	52	107	116	177	180	113	180	144	226	157	168	1,666
Return	14,800	14,500	23,380	27,170	30,400	27,680	31,710	34,000	32,520	27,870	23,420	23,430	310,880
Consumptive Use	-700	18,464	33,447	18,678	24,382	31,788	36,002	34,527	11,565	6,367	1,394	2,687	218,621
ARIZONA TOTALS	60,826	117,153	162,782	183,028	203,752	208,798	232,119	236,543	180,133	136,254	70,852	84,095	1,875,541
Return	47,611	47,161	63,690	67,067	63,433	64,156	71,901	73,470	64,982	62,433	63,439	59,073	748,456
Consumptive Use	13,215	69,992	99,092	115,961	140,319	144,642	160,218	163,073	115,151	73,821	7,413	25,022	1,127,085

10/ The total is 604 acre-feet greater than the sum of the monthly totals because of nonavailability of monthly distribution of items footnoted 2/.

604
or
72

V(B)

DIVERSIONS FROM MAINSTREAM - AVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SUCH WATER

CALENDAR YEAR 1970

STATE OF CALIFORNIA

Sheet 1 of 2

Final Records
(ACRE FEET)

Water User	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
City of Needles 4 wells - NE1/4 Sec. 29, T. 9 N., R. 23 E., S8M	Diversion	101	113	120	178	437	480	422	368	247	149	107	3,030
	Return	47	75	52	58	96	145	144	107	62	29	28	956
	Consumptive Use	54	38	68	120	212	335	278	261	185	120	79	2,074
Metropolitan Water District of Southern California (Diversion from Lake Havasu)	Diversion	78,502	97,871	92,515	104,883	109,970	109,301	105,789	102,971	106,762	94,618	90,334	1,200,353
	Return												
	Consumptive Use												
Palo Verde Irrigation District (Diversion at Palo Verde Diversion Dam)	Diversion	38,410	56,230	61,880	92,990	92,230	107,500	87,330	78,580	60,760	55,370	46,890	870,380
	Return	29,500	31,620	38,320	40,940	43,350	40,780	44,570	42,250	40,380	35,180	34,680	460,270
	Consumptive Use	8,910	24,610	23,560	52,050	48,880	66,720	42,760	36,330	20,380	19,890	12,210	410,110
City of Blythe 10 wells - In Sections 29, 32 and 33, T. 6 S., R. 23 E., S8M	Diversion	147	125	145	200	374	465	540	342	268	156	126	3,297
	Return												
	Consumptive Use												
East Blythe County Water District Pumped for domestic use from two wells, one in NE1/4 Sec. 29, T. 6 S., R. 23 E., S8M and other in NE1/4 Sec. 33, T. 6 S., R. 23 E., S8M	Diversion	22	26	24	35	35	58	53	50	36	31	27	448
	Return												
	Consumptive Use												
Yuma Project Reservation Division Indian Unit (Diversion at Imperial Dam)	Diversion	2,112	3,384	3,780	5,713	3,512	4,923	3,117	3,752	2,733	2,492	1,835	41,258
	Return												
	Consumptive Use												
Yuma Project Reservation Division Bard Unit (Diversion at Imperial Dam)	Diversion	2,044	3,215	3,238	4,927	5,235	7,069	4,772	2,817	3,379	3,234	1,980	47,555
	Return												
	Consumptive Use												
Returns from Yuma Project Reservation Division Drains Imperial Irrigation District Diversion at Imperial Dam	Returns	1,350	1,350	1,850	1,770	2,080	2,290	2,510	1,720	2,010	1,800	1,630	22,240
	Return												
	Consumptive Use												
Imperial Irrigation District Diversion at Imperial Dam	Diversion	176,418	175,055	248,293	317,469	284,767	289,088	258,406	228,885	260,696	176,347	156,848	2,848,565
	Return												
	Consumptive Use												

DIVERSIONS FROM MAINSTREAM - AVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SUCH WATER

V (B)

CALENDAR YEAR 1970

STATE OF CALIFORNIA

Sheet 2 of 2

Final Records
(ACRE FEET)

Water User	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Coachella Valley County Water District (Diversion at Imperial Dam)	27,434	27,959	34,432	40,460	48,236	50,319	50,674	52,357	41,846	32,023	23,693	19,830	449,263 1/
City of Winterhaven 1 well - SE 1/4 Sec. 27, T. 16 S., R. 22 E., S1/4													83.3 1/
Other California Users Pumping from Colorado River and wells in flood plain - Davis Dam to International Boundary 4/	1,705	2,425	2,555	3,663	3,675	3,928	4,181	3,760	2,722	2,240	2,048	1,350	34,252 1/
CALIFORNIA TOTALS	326,895	366,403	446,982	570,518	548,342	540,034	573,739	516,546	462,333	469,144	358,138	319,327	5,498,484 5/
	30,897	33,045	40,222	42,768	45,526	40,393	43,215	47,224	44,077	42,452	37,309	36,338	483,466
	295,998	333,358	406,760	527,750	502,816	499,641	530,524	469,322	418,256	426,692	320,829	282,989	5,015,018 5/

Water year 1970

4,937,824

NOTE: The term "consumptive use" in this tabulation means measured diversion less measured return to the river.

Footnotes

- 1/ No surface returns.
- 2/ Returns unassigned include unknown quantities of drainage from the Indian Unit and the Bard Unit in the Reservation Division but exclude seepage from the All-American Canal.
- 3/ Monthly distribution not available.
- 4/ Details on California Supplemental Sheets 1 - 8.
- 5/ The total is 83 acre-feet greater than the sum of the monthly totals because of nonavailability of monthly distribution of diversions by City of Winterhaven.

DIVERSIONS FROM MAINSTREAM - AVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SUCH WATER
CALENDAR YEAR 1970

V(B)
Supplemental Sheet 1 of 5
Other users pumping from
Colorado River and wells
in flood plain

STATE OF CALIFORNIA

(ACRE - FEET)

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS ^{1/}
Williams, Floyd 1 Well SE ^{1/4} NE ^{1/4} SW ^{1/4} sec.36, T.11 N., R.21 E., SRM													720
Williams, Floyd 1 Well NW ^{1/4} NE ^{1/4} SP ^{1/4} sec.36, T.11 N., R.21 E., SRM													558
Southern California Gas Company 2 Wells SE ^{1/4} SE ^{1/4} SE ^{1/4} sec.29, T.9 N., R.23 E., SRM													199 2/3
P. G. and E. Compressor Station 1 Well (diversion in Arizona) NW ^{1/4} NE ^{1/4} sec.2, T.15 N., R.21 W., G and SRM													84 2/3
Crevolin, A. A. 1 Well SE ^{1/4} NE ^{1/4} SE ^{1/4} sec.9, T.1 S., R.24 E., SRM													1
Crevolin, A. A. 1 Well NE ^{1/4} SE ^{1/4} SW ^{1/4} sec.10, T.1 S., R.24 E., SRM													3,288 3/4
1 Well SE ^{1/4} SW ^{1/4} NW ^{1/4} sec.10, T.1 S., R.24 E., SRM													
1 Well NE ^{1/4} NE ^{1/4} SE ^{1/4} sec.9, T.1 S., R.24 E., SRM													
1 Well SE ^{1/4} SE ^{1/4} SE ^{1/4} sec.9, T.1 S., R.24 E., SRM													
1 Well E ^{1/2} NE ^{1/4} NW ^{1/4} sec.15, T.1 S., R.24 E., SRM													
1 Well NE ^{1/4} SW ^{1/4} SE ^{1/4} sec.9, T.1 S., R.24 E., SRM													
1 Well SE ^{1/4} NE ^{1/4} NE ^{1/4} sec.15, T.1 S., R.24 E., SRM													
Lye, R. L. 1 Well SE ^{1/4} NE ^{1/4} NW ^{1/4} sec.16, T.1 S., R.24 E., SRM													75 3/4
Swan, James 1 Well SW ^{1/4} NE ^{1/4} NE ^{1/4} sec.14, T.3 S., R.23 E., SRM													111 3/4
Cox, Norman 1 Pump NW ^{1/4} SW ^{1/4} NW ^{1/4} sec.13, T.3 S., R.23 E., SRM													1,685 3/4

Footnotes are on page 24

DIVERSIONS FROM MAINSTREAM - AVAILABLE RETURN FLOW

AND CONSUMPTIVE USE OF SUCH WATER

CALENDAR YEAR 1970

STATE OF CALIFORNIA

V (B)
Supplemental Sheet 2 of 5
Other users pumping from
Colorado River and wells
in flood plain

(ACRE - FEET)

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS 1/
Cox, Norman 1 Pump SW ¹ / ₄ SE ¹ / ₄ NW ¹ / ₄ sec.13, T.3 S., R.23 E., SBM	13	170	76	190	184	240	295	258	148	111	134	89	1,908 3/
Cox, Norman 1 Pump NE ¹ / ₄ SW ¹ / ₄ SE ¹ / ₄ sec.13, T.3 S., R.23 E., SBM	99	95	87	163	161	188	238	176	137	43	184	64	1,637 3/
Harvey, K. E. 1 Pump SE ¹ / ₄ SE ¹ / ₄ SE ¹ / ₄ sec.11, T.4 S., R.23 E., SBM	0	0	0	0	0	0	0	0	0	0	135	5	140 3/
Clart, Robert 1 Pump SE ¹ / ₄ SE ¹ / ₄ NW ¹ / ₄ sec.36, T.4 S., R.23 E., SBM	128	112	62	121	103	235	250	239	138	70	58	84	1,600 3/
Wagon Wheel Cattle Company 1 Pump NW ¹ / ₄ SE ¹ / ₄ NW ¹ / ₄ sec.6, T.5 S., R.24 E., SBM	17	13	0	96	111	56	70	16	0	0	0	0	379 3/
Wagon Wheel Cattle Company 1 Pump NW ¹ / ₄ SE ¹ / ₄ NW ¹ / ₄ sec.6, T.5 S., R.24 E., SBM	190	231	159	220	248	221	135	0	0	0	0	0	1,404 3/
Wagon Wheel Cattle Company 1 Pump NE ¹ / ₄ SE ¹ / ₄ NW ¹ / ₄ sec.6, T.5 S., R.24 E., SBM	9	140	105	34	25	28	28	19	4	2	0	0	394 3/
Wagon Wheel Cattle Company 1 Pump NE ¹ / ₄ NW ¹ / ₄ SE ¹ / ₄ sec.7, T.5 S., R.24 E., SBM	124	161	76	198	125	166	155	100	0	0	0	0	1,105 3/
Wagon Wheel Cattle Company 1 Pump NE ¹ / ₄ NW ¹ / ₄ SE ¹ / ₄ sec.7, T.5 S., R.24 E., SBM	74	104	60	112	89	148	120	90	0	0	0	0	797 3/
Anderson, Carl 1 Pump NE ¹ / ₄ NE ¹ / ₄ NW ¹ / ₄ sec.24, T.9 S., R.21 E., SBM	792	1,311	928	1,502	1,393	1,890	1,959	1,561	1,064	698	924	501	14,523
Subtotals-Davis Dam to Imperial Dam	61	103	117	158	165	167	199	171	143	111	95	81	1,571
Spencer and Franklin 1 Well and 1 Pump SW ¹ / ₄ SE ¹ / ₄ NE ¹ / ₄ sec.35, T.15 S., R.23 E., SBM													636

DIVERSIONS FROM MAINSTREAM - AVAILABLE RETURN FLOW

AND CONSUMPTIVE USE OF SUCH WATER

CALENDAR YEAR 1970

STATE OF CALIFORNIA

V(8)

Supplemental Sheet 3 of 5
Other users pumping from
Colorado River and wells
in flood plain

		(ACRE - FEET)												
		JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Buryman, Harley	1 Well	40	68	0	24	52	136	120	136	52	0	104	92	824 3/
SW 1/4 NW 1/4 sec. 2, T. 16 S., R. 23 E., SRM	Diversion													
Power, Pete	1 Pump													1,992
NE 1/4 NE 1/4 sec. 15, T. 16 S., R. 23 E., SRM	Diversion													
1 Pump														
NW 1/4 SW 1/4 sec. 14, T. 16 S., R. 23 E., SRM	Diversion													
Mitchell, Heyden	1 Well	7	38	38	36	55	64	65	40	33	2	2	40	420 3/
SE 1/4 SE 1/4 sec. 22, T. 16 S., R. 23 E., SRM	Diversion													
Slade	1 Well													1,440
NE 1/4 SE 1/4 sec. 6, T. 8 S., R. 22 W., G and SRM	Diversion													
Dees, John F.	1 Well													840
SE 1/4 NW 1/4 sec. 6, T. 8 S., R. 22 W., G and SRM	Diversion													
Spencer, M. E.	1 Well	31	0	34	78	69	22	53	87	8	8	88	2	480 3/
SW 1/4 SW 1/4 sec. 9, T. 16 S., R. 23 E., SRM	Diversion													
Coley, Marvin	1 Well	0	74	53	109	103	0	0	0	0	0	0	0	339 3/
SE 1/4 SE 1/4 sec. 18, T. 16 S., R. 23 E., SRM	Diversion													
Martin, Marvin	1 Well	0	0	0	0	3	10	18	18	11	5	1	0	66 3/
NE 1/4 NW 1/4 sec. 1, T. 8 S., R. 23 W., G and SRM	Diversion													
Martin, Marvin	1 Well	0	62	74	121	195	70	25	37	70	62	62	12	790 3/
SE 1/4 NE 1/4 sec. 1, T. 8 S., R. 23 W., G and SRM	Diversion													
Harp, Robert	1 Well	58	13	153	196	55	109	165	303	181	304	0	122	1,659 3/
SW 1/4 NE 1/4 sec. 2, T. 8 S., R. 23 W., G and SRM	Diversion													
Harp, Robert	1 Well	44	31	177	195	192	129	88	165	110	146	0	0	1,277 3/
NE 1/4 SE 1/4 sec. 2, T. 8 S., R. 23 W., G and SRM	Diversion													

DIVERSIONS FROM MAINSTREAM - AVAILABLE RETURN FLOW

AND CONSUMPTIVE USE OF SUCH WATER

CALENDAR YEAR 1970

STATE OF CALIFORNIA

V(8) Supplemental Sheet 4 of 5
Other users pumping from
Colorado River and wells
in flood plain

(ACRE FEET)

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Harp, Robert 1 Well NE ¹ / ₄ NW ¹ / ₄ sec. 12, T. 8 S., R. 23 W., G and SRM	68	22	117	86	77	63	135	113	50	41	11	47	830 3/4
Easterday, Anne 1 Well SW ¹ / ₄ SE ¹ / ₄ sec. 1, T. 8 S., R. 23 W., G and SRM													720
Dees, John F. 1 Well SE ¹ / ₄ NE ¹ / ₄ sec. 1, T. 8 S., R. 23 W., G and SRM													792
Harp, Robert 1 Well SE ¹ / ₄ NE ¹ / ₄ sec. 12, T. 8 S., R. 23 W., G and SRM	0	0	82	0	0	58	60	100	36	0	0	22	358 3/4
Harp, Paul 1 Well SW ¹ / ₄ SE ¹ / ₄ sec. 12, T. 8 S., R. 23 W., G and SRM													720
Easterday, Kenneth 1 Well NW ¹ / ₄ SE ¹ / ₄ sec. 12, T. 8 S., R. 23 W., G and SRM	58	43	91	96	115	179	176	134	106	58	178	48	1,282 3/4
Power, Pete 1 Well NE ¹ / ₄ SW ¹ / ₄ sec. 11, T. 8 S., R. 23 W., G and SRM													1,104
Hughes, Earl 1 Well NE ¹ / ₄ SE ¹ / ₄ sec. 19, T. 16 S., R. 23 E., SRM	67	6	53	66	134	3	0	0	8	1	17	60	415 3/4
Hutchinson, John 1 Pump SE ¹ / ₄ SE ¹ / ₄ sec. 27, T. 16 S., R. 22 E., SRM	24	3	3	19	27	37	79	27	12	1	1	1	234 3/4
Layton, Chris 1 Pump SW ¹ / ₄ NE ¹ / ₄ sec. 29, T. 16 S., R. 22 E., SRM	16	0	17	17	31	27	33	26	43	34	22	2	268 3/4
Bresch, Joe 1 Pump SW ¹ / ₄ NW ¹ / ₄ sec. 29, T. 16 S., R. 22 E., SRM	0	0	0	0	0	98	79	79	0	0	63	18	337 3/4

DIVERSIONS FROM MAINSTREAM - AVAILABLE RETURN FLOW

AND CONSUMPTIVE USE OF SUCH WATER

CALENDAR YEAR 1970

STATE OF CALIFORNIA

V(B)
Supplemental Sheet 5 of 5
Other users pumping from
Colorado River and wells
in flood plain

(ACRE - FEET)

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Lewis, Joe													
1 Well													
W/Diversion	23	14	16	58	39	39	0	41	0	55	50	0	335
Subtotals - Imperial Dam to Boundary	436	374	908	1,101	1,147	1,044	1,096	1,306	720	717	599	466	9,914
5/Diversion	416	637	602	902	970	827	927	722	795	714	430	302	8,244
TOTAL - CALIFORNIA	1,705	2,425	2,555	3,663	3,675	3,928	4,181	3,760	2,722	2,240	2,048	1,350	34,252

Footnotes

- 1/ Calculated by assuming an annual diversion of 6 acre-feet per irrigated acre unless otherwise noted.
- 2/ Record furnished by diverter.
- 3/ Calculated from monthly power records and power-discharge measurements where available, and where power-discharge measurements were not available calculated from average power-discharge rate.
- 4/ Total of items for which monthly distribution is shown.
- 5/ Total of items for which monthly distribution is not shown. Distributed according to monthly distribution of diversions of Colorado River Indian Reservation and Palo Verde Irrigation District.
- 6/ Total of items for which monthly distribution is not shown. Distributed according to monthly distribution of diversions to Valley Diversion of Yuma Project.

DIVERIONS FROM MAINSTREAM - AVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SUCH WATER

CALENDAR YEAR 1970
STATE OF NEVADA

V(8)

Sheet 1 of 2
Final Records
(ACRE - FEET)

Water User	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Boulder City (Diversion at Hoover Dam)	107	113	148	209	298	367	363	338	291	219	167	103	2,743 1/2
Lake Mead National Recreation Area (Diversion from Lake Mead) (Diversion from Lake Mohave)	23	23	30	38	88	108	86	103	72	58	45	37	711 1/2
Basic Management, Inc. (Diversion at Saddle Island, Lake Mead)	1,577	1,414	1,569	1,739	1,895	1,907	3,057	1,342	1,940	1,695	1,445	1,317	20,897 3/4
Las Vegas Valley Water District 4/ (Diversion at Saddle Island, Lake Mead)	1,253	1,302	1,429	1,342	1,453	1,352	1,660	1,389	1,152	959	62	0	13,353 3/4
Johns-Manville (Diversion at Oryza Wash)	32	24	33	32	31	39	38	37	36	39	30	24	395 1/2
Southern California Edison Company (Diversion at Pumping Plant in Sec. 24, T. 32 S., R. 66 E., MDB&M)	7	7	7	7	7	7	5	5	5	5	73	26	161 1/2
William C. Russell Lot 3, Sec. 13 T. 32 S., R. 66 E., MDB&M													3 3/4
Rio Alto Vista Properties Sec. 24, T. 32 S., R. 66 E., MDB&M													0 3/4
Armin T. Wiebke 1 Pump - All except W 500' and E 630' of Lot 1, Sec. 33, T. 32 S., R. 66 E., MDB&M													0 3/4
Warren E. Fortenier 1 Pump - W 1/2 Lot 1, Sec. 33, T. 33 S., R. 66 E. MDB&M													25 3/4
John C. Welles 1 Pump - E 1/2 Lot 2, Sec. 33, T. 32 S., R. 66 E., MDB&M													8 3/4

DIVERSTIONS FROM MAINSTREAM - AVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SUCH WATER

V(B)

CALENDAR YEAR 1970
STATE OF NEVADA

Sheet 2 of 2
Final Records
(ACRE FEET)

Water User	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Milton E. Cavanaugh 1 Pump - 1/2 Lot 2, Sec. 33, T. 32 S., R. 66 E., MURKIN													
NEVADA TOTALS	2,999	2,883	3,216	3,367	3,772	3,780	5,229	3,214	3,496	2,975	1,822	1,507	38,308 6/1

Note: The term "consumptive use" in this tabulation means measured diversion less measured return to the river.

- 1/ No surface returns.
- 2/ Diversion too small to tabulate monthly--not included in monthly totals.
- 3/ Portions of return flow in Las Vegas Wash attributable to Basic Management, Inc., and to Las Vegas Valley Water District are not identified.
- 4/ Delivered through the facilities of Basic Management, Inc., and metered at Booster Pump No. 2.
- 5/ Reported annually.
- 6/ The total is 48 acre-feet greater than the sum of the monthly totals because of the nonavailability of monthly distribution of items footnoted 2/ and 5/.

Water Year 1970 42,179

85
1/

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 1970

The following tabulations for calendar year 1970 show records of releases of mainstream water pursuant to orders therefor 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 main stream.

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.

The daily quantities of "water ordered but not diverted" were considered for all diverters each day and, to the extent possible, this water was delivered to others in satisfaction of their rights. The quantities of such deliveries are shown on the tabulation.

To date, no orders are received for diversions from the Colorado River in Nevada so no sheet is included for Nevada. Diversions from Lake Mead for use in Nevada are not large enough at the present time to be of significance in scheduling daily operations.

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RELEASES OF MAINSTREAM WATER PURBUANT 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 1970
STATE OF ARIZONA

Sheet 1 of 2
Final Records
(ACRE - FEET)

Water User	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Colorado River Indian Reservation	438	115	1,795	1,095	2,083	256	288	932	434	1,027	686	1,023	10,172
(Diversion at Headgate Rock Dam)	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	6	232	393	222	137	28	75	119	264	137	357	1,970
	438	109	998	702	1,861	119	260	857	315	763	549	666	7,637
	0	0	565	0	0	0	0	0	0	0	0	0	565
Yuma Proving Ground, U.S. Army <u>1</u> / (Diversion at Imperial Dam)	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
	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
	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 Irrigation District	527	920	1,117	595	932	706	938	912	305	878	640	861	9,331
(Diversion at Imperial Dam)	158	349	89	175	220	216	434	374	168	408	198	357	3,146
	369	523	635	420	712	490	504	538	137	470	442	504	5,744
	0	48	393	0	0	0	0	0	0	0	0	0	441
	992	3,570	5,058	1,097	1,186	555	817	3,120	1,816	3,003	817	3,624	25,655
Wellton-Mohawk Irrigation and Drainage District	0	0	0	0	0	0	0	0	0	0	0	0	0
(Diversion at Imperial Dam)	304	1,372	637	421	392	210	579	1,668	1,634	1,912	311	1,801	11,041
	688	1,791	1,978	676	994	345	238	1,452	182	1,091	506	1,823	11,764
	0	407	2,443	0	0	0	0	0	0	0	0	0	2,850
Yuma Irrigation District	489	485	1,027	591	373	248	747	778	462	323	331	414	6,268
(Diversion at Imperial Dam)	0	0	0	0	0	0	0	0	0	0	0	0	0
	55	63	97	103	89	95	394	276	404	170	43	126	1,915
	434	343	599	488	284	153	353	502	58	153	288	288	3,943
	0	79	331	0	0	0	0	0	0	0	0	0	410
Yuma Mesa Irrigation and Drainage District	1,329	2,216	2,561	1,589	998	480	716	1,285	2,097	2,319	2,165	1,743	19,498
(Diversion at Imperial Dam)	516	442	186	224	290	169	359	184	1,758	1,242	626	547	6,543
	813	1,332	901	1,365	708	311	357	1,101	339	1,077	1,539	1,196	11,039
	0	442	1,174	0	0	0	0	0	0	0	0	0	1,916

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

(VIC)

QUANTITY OF SUCH WATER DELIVERED TO MEXICO IN SATISFACTION OF MEXICAN TREATY OR DIVERTED BY OTHERS
AND
CALENDAR YEAR 1970
STATE OF ARIZONA

Sheet 2 of 2
Final Records
(ACRE - FEET)

Water User	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Unit "B" Irrigation and Drainage District (Diversion at Imperial Dam)	Ordered but not Diverted Delivered to Mexico in	299	506	891	414	599	290	545	347	428	323	383	5,316
	Satisfaction of Treaty	0	0	0	0	0	0	0	0	0	0	0	0
	Diverted by Others	23	34	91	89	165	107	204	246	265	63	34	1,499
	Delivered to Storage 2/	276	434	427	325	434	183	341	101	163	260	349	3,406
	Delivered to Mexico in Excess of Treaty	0	38	373	0	0	0	0	0	0	0	0	0
City of Yuma (Diversion at Imperial Dam)	Ordered but not Diverted Delivered to Mexico in	120	118	114	94	25	0	98	347	109	52	56	1,178
	Satisfaction of Treaty	0	0	0	0	0	0	0	0	0	0	0	0
	Diverted by Others	85	29	22	42	7	0	43	101	34	29	24	449
	Delivered to Storage 2/	35	54	48	52	18	0	12	246	75	23	32	650
	Delivered to Mexico in Excess of Treaty	0	35	44	0	0	0	0	0	0	0	0	79
Yuma County Water Users' Association (Diversion at Imperial Dam)	Ordered but not Diverted Delivered to Mexico in	2,966	1,859	6,068	1,485	1,992	1,489	4,293	1,256	3,001	3,667	2,578	32,882
	Satisfaction of Treaty	0	0	0	0	0	0	0	0	0	0	0	0
	Diverted by Others	2,116	459	1,158	670	595	1,016	1,654	366	930	2,014	1,107	13,959
	Delivered to Storage 2/	850	862	2,564	815	1,397	473	574	890	2,071	1,653	1,471	16,059
	Delivered to Mexico in Excess of Treaty	0	538	2,346	0	0	0	0	0	0	0	0	2,884
Cocopah Indian Reservation (Diversion at Imperial Dam)	Ordered but not Diverted Delivered to Mexico in	4	1	10	4	2	4	8	4	2	0	10	53
	Satisfaction of Treaty	0	0	0	0	0	0	0	0	0	0	0	0
	Diverted by Others	3	0	2	2	1	3	3	1	0	0	0	0
	Delivered to Storage 2/	1	1	4	2	1	1	5	3	2	0	6	27
	Delivered to Mexico in Excess of Treaty	0	0	4	0	0	0	0	0	0	0	0	4
ARIZONA TOTALS	Ordered but not Diverted Delivered to Mexico in	7,164	9,790	18,641	6,964	8,190	4,028	11,971	7,068	11,090	8,681	10,692	110,353
	Satisfaction of Treaty	0	0	0	0	0	0	0	0	0	0	0	0
	Diverted by Others	3,260	2,754	2,514	2,119	1,781	1,993	3,662	4,797	5,225	3,421	4,357	40,544
	Delivered to Storage 2/	3,904	5,419	8,154	4,845	6,409	2,075	7,270	2,271	5,865	5,260	6,335	60,249
	Delivered to Mexico in Excess of Treaty	0	1,587	7,973	0	0	0	0	0	0	0	0	0

1/ No orders received.
2/ Available for future use.

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

VIC)

AND
QUANTITY OF SUCH WATER DELIVERED TO MEXICO IN SATISFACTION OF MEXICAN TREATY OR DIVERTED BY OTHERS

CALENDAR YEAR ~~1969~~ **1969**
STATE OF ARIZONA

Final Records
(ACRE - FEET)

Water User	Final Records (ACRE - FEET)												TOTALS
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
North Gila Valley Irrigation District (Diversion at Imperial Dam)	881	744	625	545	783	722	966	845	700	1,035	1,107	1,406	10,359
	0	0	0	0	0	0	0	0	0	0	0	0	0
Ordered but not Diverted Delivered to Mexico	168	169	296	224	136	315	317	129	414	396	67	290	2,901
Diverted by Others													
Unit "B" Irrigation and Drainage District (Diversion at Imperial Dam)	702	331	182	115	292	167	103	278	446	635	736	494	4,461
	246	43	22	63	101	26	38	50	242	363	65	62	1,341
Ordered but not Diverted Delivered to Mexico													
Diverted by Others													
ARIZONA TOTALS	13,166	4,794	7,788	5,225	7,299	9,237	7,913	6,715	11,673	10,885	16,988	12,447	114,130
	0	0	0	0	0	0	0	0	0	0	0	0	0
Ordered but not Diverted Delivered to Mexico	3,317	2,322	3,672	2,832	1,942	3,310	3,571	2,833	4,160	4,091	3,670	3,510	39,230
Diverted by Others													

REVISIONS TO 1969 REPORT

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

Sheet 1 of 2
Final Records
(ACRE - FEET)

CALENDAR YEAR 1970
STATE OF CALIFORNIA

Water User	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Metropolitan Water District (Diversion from Lake Havasu)	2,098	129	2,325	117	0	0	149	2,261	1,819	658	0	5,196	14,732
Palo Verde Irrigation District (Diversion at Palo Verde Diversion Dam)	1,521	2,483	3,830	976	2,493	1,319	2,325	4,943	2,944	2,189	1,906	851	27,780
Yuma Project Reservation Division - Bard Unit (Diversion at Imperial Dam)	306	487	571	411	771	651	503	871	498	617	729	554	6,969
Yuma Project Reservation Division - Indian Unit (Diversion at Imperial Dam)	156	201	199	248	374	181	305	696	203	172	305	290	3,330
Imperial Irrigation District (Diversion at Imperial Dam)	165	235	281	233	144	267	43	629	463	322	257	231	3,270
Imperial Irrigation District (Diversion at Imperial Dam)	0	76	187	0	0	0	0	0	0	0	0	0	263
Imperial Irrigation District (Diversion at Imperial Dam)	595	10,975	17,169	0	0	0	0	992	413	0	0	561	30,705
Imperial Irrigation District (Diversion at Imperial Dam)	0	0	0	0	0	0	0	0	0	0	0	0	0
Imperial Irrigation District (Diversion at Imperial Dam)	595	6,147	9,231	0	0	0	0	992	397	0	0	535	17,637
Imperial Irrigation District (Diversion at Imperial Dam)	0	4,663	7,805	0	0	0	0	0	0	0	0	0	12,468

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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
CALENDAR YEAR 1970
STATE OF CALIFORNIA

Sheet 2 of 2
Final Records
(ACRE - FEET)

Water User	VIC)												TOTALS			
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER				
Coachella Valley County Water District	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
(Diversion at Imperial Dam)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ordered but not Diverted	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Delivered to Mexico in Satisfaction of Treaty	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diverted by Others	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Delivered to Storage 1/	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Delivered to Mexico in Excess of Treaty	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CALIFORNIA TOTALS	4,841	14,586	24,562	1,985	3,782	2,418	3,325	10,392	6,340	3,958	3,197	7,683	87,069	0	0	0
Ordered but not Diverted	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Delivered to Mexico in Satisfaction of Treaty	611	1,142	571	631	995	747	1,778	1,903	1,008	670	1,087	744	11,887	0	0	0
Diverted by Others	4,230	7,779	13,619	1,354	2,787	1,671	1,547	8,489	5,332	3,288	2,110	6,939	59,145	0	0	0
Delivered to Storage 1/	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Delivered to Mexico in Excess of Treaty	0	5,665	10,372	0	0	0	0	0	0	0	0	0	16,037	0	0	0

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 1970

V(D)

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

CALENDAR YEAR 1970

Final Records
(ACRE - FEET)

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Deliveries to Mexico in Satisfaction of Treaty	121,606	89,178	208,677	214,838	97,285	121,606	170,249	169,308	78,999	55,370	53,584	125,300	1,500,000
Passing to Mexico in Excess of Treaty requirements	5,741	14,621	18,459	118	311	209	173	238	0	19,492	19,311	4,513	83,186 1/2

1/ Includes 54,682 acre-feet delivered pursuant to provisions of Minute 218.

RECORDS OF DIVERSIONS OF WATER
FROM THE MAINSTREAM OF THE GILA AND SAN FRANCISCO RIVERS
AND THE CONSUMPTIVE USE OF SUCH WATER, FOR THE BENEFIT
OF THE GILA NATIONAL FOREST IN ACCORDANCE WITH ARTICLE V(E)
OF THE DECREE OF THE SUPREME COURT OF THE UNITED STATES
IN ARIZONA v. CALIFORNIA DATED MARCH 9, 1964

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CALENDAR YEAR 1970

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 1970

(VIE)

Final Records
(ACRE - FEET)

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Gila River													
Diversions													799 1/2
Consumptive Use													799 2/3
San Francisco River													
Diversions													980 1/2
Consumptive Use													980 2/3

Note: The term "consumptive use" in this tabulation means measured diversion less measured return to the river.

- 1/ Records of monthly distribution not available.
- 2/ No surface returns.