

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
Walter J. Hickel, Secretary

BUREAU OF RECLAMATION  
Ellis L. Armstrong, Commissioner

REGION 3  
A. B. West, 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 1969

Division of Water and Land Operations  
Boulder City, Nevada

August 1, 1970

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 1969

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The enclosed tabulations for Calendar Year 1969 show final records of releases of water through regulatory structures controlled by the United States. At Hoover, Davis, Parker, and Imperial Dams the records are furnished by the Geological Survey based on measurements at or below the structures.

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

During January, February, and March, the record of riverflow through Palo Verde Diversion Dam was computed using the record of flow at the gaging station "Colorado River below Palo Verde Diversion Dam, Arizona-California," and deducting from it the record of flow from the Palo Verde Levee Drain and the Colorado River Indian Reservation Lower Main Drain which enter the river between the dam and gaging station. During the remainder of the year records are based on flow measured through the river gates at Palo Verde Dam.

The record of flow past 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 1969

Final Records  
(ACRE - FEET)

Structure	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Hoover Dam	548,900	551,700	824,800	894,200	834,300	753,300	772,000	692,700	618,100	522,900	425,700	453,400	7,892,000
Davis Dam	345,900	585,900	851,500	855,100	781,400	816,600	893,900	882,000	602,500	543,700	326,300	425,400	7,910,000
Parker Dam	253,900	466,600	740,000	712,400	640,600	674,400	764,600	732,900	488,000	434,100	220,100	310,300	6,436,000
Headgate Rock Dam <sup>1/</sup>	239,800	433,800	683,500	666,900	586,400	616,000	699,000	666,200	444,800	400,400	195,600	284,600	5,917,000
Palo Verde Diversion Dam <sup>2/</sup>	225,100	351,500	581,300	586,900	510,800	526,900	588,700	572,600	380,000	357,800	176,300	238,000	5,091,900
Imperial Dam	20,310	15,670	20,120	26,820	21,720	20,250	22,500	23,630	19,540	15,190	26,480	7,120	239,300
Laguna Dam <sup>3/</sup>	20,460	15,600	18,690	27,020	21,520	21,470	22,780	23,010	18,660	15,190	27,980	7,120	239,500

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

<sup>2/</sup> During January, February and March, Colorado River below Palo Verde Diversion Dam less returns by the Palo Verde Levee Drain and the Colorado River Indian Reservation Lower Main Drain below Palo Verde Diversion Dam. During remainder of the year records are based on flow measured through the river gates at Palo Verde Dam.

<sup>3/</sup> 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

- - -

CALENDAR YEAR 1969

The enclosed tabulations for Calendar Year 1969, 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 1969 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 both by field inventory maintained throughout the year and from aerial photographs which were taken June 26, 1968.



DIVERSIONS FROM MAINSTREAM — AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1969

STATE OF ARIZONA

(VID)

Sheet 1 of 3  
Final Records  
(ACRE - FEET)

Water User	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Lake Mead National Recreation Area	9	5	6	18	22	20	26	24	23	20	16	12	201 1/2
(Diversion from Lake Mohave)													
Mohave Valley Irrigation and Drainage Dist. Diversion (Pumped from wells and from inlet channel to Havasu National Wildlife Refuge)	466	432	763	1,567	1,339	1,450	1,916	1,457	1,810	737	595	423	12,995 1/2
Havasu National Wildlife Refuge Inlet - NW 1/4 sec. 33, T. 9 N., R. 23 E., SEM	307	0	80	1,600	3,470	3,530	6,700	8,200	4,440	690	3,940	5,740	30,697
Less diversion from inlet channel by private pump in SW 1/4 sec. 24, T. 17 N., R. 22 W., G&SRM													
1 Well - NE 1/4 sec. 15, T. 8 N., R. 23 E., SEM	0	0	0	0	0	0	0	0	1	1,810	7,040	0	8,571 2/3
Outlet - SW 1/4 sec. 27, T. 16 N., R. 21 W., G&SRM	128	124	215	208	229	262	305	350	320	282	183	186	2,792 1/2
Lake Havasu Irrigation and Drainage District (Pumped from wells)													
2 Wells	22	23	35	52	70	83	90	104	82	49	29	27	666
1 Well - NW 1/4 sec. 7, T. 9 N., R. 19 W., G&SRM													
1 Well - SW 1/4 sec. 15, T. 9 N., R. 20 W., G&SRM													
Colorado River Indian Reservation (Diversion at Headgate Rock Dam)	14,090	32,750	56,190	34,470	54,190	58,460	65,670	66,700	43,230	33,710	24,500	25,760	520,960
(Pumped from wells at Parker)													
2 Wells - SW 1/4 sec. 2, T. 9 N., R. 20 W., G&SRM	3	3	3	3	3	4	4	4	3	3	3	3	39
(Pumped from well at Valley Field Office)													
1 Well - NE 1/4 sec. 1, T. 8 N., R. 21 W., G&SRM	0	0	1	1	1	1	1	1	0	0	0	0	6
(Pumped from wells at Poston)													
4 Wells - NW 1/4 sec. 36, T. 8 N., R. 21 W., G&SRM	1	2	2	2	2	2	2	2	2	2	2	1	22
4 Pumps - SW 1/4 sec. 14, T. 5 N., R. 22 W., G&SRM	0	157	224	296	409	821	1,922	1,640	706	316	152	185	6,708
1 Pump - NE 1/4 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 Consumptive Use	14,800	14,500	23,380	27,170	30,400	27,680	31,710	34,000	32,570	27,670	23,420	23,430	310,670
	-463	18,550	33,378	19,370	25,630	33,135	37,629	34,571	11,267	6,145	1,557	2,926	221,792

DIVERIONS FROM MAINSTREAM — AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1969  
STATE OF ARIZONA

(VIB)

Sheet 2 of 3  
Final Records  
(ACRE - FEET)

Water User	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Imperial National Wildlife Refuge													
1 Well													155 2/
SW 1/4 sec. 13, T. 5 S., R. 22 W., GASHIM Diversion													292 2/
1 Well													1/
SW 1/4 sec. 13, T. 5 S., R. 22 W., GASHIM Diversion													32
Return													32
Consumptive Use													1/
Yuma Proving Ground, U. S. Army													
(Diversion at Imperial Dam)													
North Gila Valley Irrigation District													
(Diversion at Imperial Dam)													
Wellton-Mohawk Irrigation and Drainage District													
(Diversion at Imperial Dam)													
Yuma Irrigation District													
(Diversion at Imperial Dam)													
(Pumped from private wells)													
Yuma Mesa Irrigation and Drainage District													
(Diversion at Imperial Dam)													
Unit "B" Irrigation and Drainage District													
(Diversion at Imperial Dam)													
Returns from South Gila Valley													
City of Yuma													
(Diversion at Imperial Dam)													
Yuma County Water Users Association													
(Diversion at Imperial Dam)													
(Pumped from wells)													

Footnotes are on page 9

**DIVERIONS FROM MAINSTREAM — AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1969**

STATE OF ARIZONA

Sheet 3 of 3  
Final Records  
(ACRE - FEET)

VIII

Water User	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS																																																			
Cocopah Indian Reservation (Diversion at Imperial Dam (Pumped from wells))	17 1	127 4	18 1	50 2	29 1	27 1	45 2	81 2	130 5	0 0	0 0	68 7	592 26 9/																																																			
Other Arizona Users pumping from Colorado River and wells in flood plain Davis Dam to International Boundary 2/	2,569	4,234	6,690	7,720	8,448	7,812	9,352	7,108	6,016	6,825	3,201	2,765	72,740 1/																																																			
<b>ARIZONA TOTALS</b>	60,826 47,611 13,215	117,153 47,161 69,992	162,782 63,690 99,092	183,028 67,067 115,961	203,752 63,433 140,319	208,798 64,156 144,602	232,119 71,901 160,218	236,543 73,470 163,073	180,133 64,982 115,151	136,254 82,433 73,821	70,892 63,439 7,453	84,095 59,073 25,022	1,875,541 748,456 1,127,085																																																			
<p>NOTE: The term "consumptive use" in this tabulation means measured diversion less measured return to river.</p> <p>Footnotes</p> <p>1/ No surface returns.                  2/ Monthly distribution not available.                  3/ Calculated from monthly power records.                  4/ Pumped from underground and unassigned to districts as returns include quantities of drainage from Yuma Mesa as well as South Gila Valley.                  5/ Includes deliveries to the following water users who have contracts with the United States:</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;"></td> <td style="width: 20%; text-align: right;">Point of Delivery</td> <td style="width: 20%;"></td> </tr> <tr> <td>City of Yuma</td> <td style="text-align: right;">B 3.7 Lateral</td> <td style="text-align: right;">Annual Total</td> </tr> <tr> <td>Desert Lawn Memorial Association</td> <td style="text-align: right;">B 3.7 Lateral</td> <td style="text-align: right;">33</td> </tr> <tr> <td>Southern Pacific Company</td> <td style="text-align: right;">B 3.7 Lateral</td> <td style="text-align: right;">101</td> </tr> <tr> <td>Ritz Distributing Company</td> <td style="text-align: right;">After bay of Yuma Mesa Pumping Plant</td> <td style="text-align: right;">12</td> </tr> <tr> <td>Yuma Mesa Fruit Growers Association</td> <td style="text-align: right;">B 3.7 Lateral</td> <td style="text-align: right;">48</td> </tr> <tr> <td>County of Yuma, Arizona</td> <td style="text-align: right;">B 3.7 W. Lateral</td> <td style="text-align: right;">11</td> </tr> <tr> <td>Marine Corps Air Station, Dept. of the Navy</td> <td style="text-align: right;">B 3.8 Lateral</td> <td style="text-align: right;">11</td> </tr> <tr> <td>Total</td> <td style="text-align: right;">B Canal and B-5.5 W. Lateral</td> <td style="text-align: right;">20</td> </tr> <tr> <td></td> <td></td> <td style="text-align: right;">1577</td> </tr> <tr> <td></td> <td></td> <td style="text-align: right;">1813</td> </tr> </table> <p>6/ Includes deliveries to the following water users who have contracts with the United States:</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;"></td> <td style="width: 20%;"></td> <td style="width: 20%;"></td> </tr> <tr> <td>University of Arizona</td> <td style="text-align: right;">B Main Canal</td> <td style="text-align: right;">661</td> </tr> <tr> <td>Camille Allec, Jr.</td> <td style="text-align: right;">B-8 Lateral</td> <td style="text-align: right;">75</td> </tr> <tr> <td>Total</td> <td></td> <td style="text-align: right;">736</td> </tr> </table> <p>7/ Includes deliveries to the following water user who has a contract with the United States:</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;"></td> <td style="width: 20%;"></td> <td style="width: 20%;"></td> </tr> <tr> <td>Yuma Union High School District</td> <td style="text-align: right;">Yuma Main Canal</td> <td style="text-align: right;">250</td> </tr> </table>															Point of Delivery		City of Yuma	B 3.7 Lateral	Annual Total	Desert Lawn Memorial Association	B 3.7 Lateral	33	Southern Pacific Company	B 3.7 Lateral	101	Ritz Distributing Company	After bay of Yuma Mesa Pumping Plant	12	Yuma Mesa Fruit Growers Association	B 3.7 Lateral	48	County of Yuma, Arizona	B 3.7 W. Lateral	11	Marine Corps Air Station, Dept. of the Navy	B 3.8 Lateral	11	Total	B Canal and B-5.5 W. Lateral	20			1577			1813				University of Arizona	B Main Canal	661	Camille Allec, Jr.	B-8 Lateral	75	Total		736				Yuma Union High School District	Yuma Main Canal	250
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8/ Returns include unknown quantities of drainage returns from Yuma Mesa Irrigation and Drainage District and Unit "B" Irrigation and Drainage District, as well as from Yuma County Water Users Association and Cocopah Indian Reservation.  
 9/ Details on Arizona Supplemental sheets 1-5.  
 10/ The total is 794 acre-feet less than the sum of the monthly totals because of nonavailability of monthly distribution of items footnoted 2/.

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See 171

DIVERSIONS FROM MAINSTREAM — AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1969

STATE OF ARIZONA

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

Meter User	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS 1/
Clayton Farms 2 Pumps SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> sec. 34, T. 4 N., R. 22 W., GASRM	142	15	832	273	375	355	745	514	807	425	13	0	4,496 2/
Clayton Farms 1 Well SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> sec. 34, T. 4 N., R. 22 W., GASRM	10	8	35	0	0	24	25	31	10	0	0	0	143 2/
Barrett, F. Wayne 2 Pumps SE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> sec. 16, T. 3 N., R. 22 W., GASRM													2,640
Van Horn, George 1 Pump SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> sec. 28, T. 3 N., R. 22 W., GASRM													960
Julian 1 Pump SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> sec. 4, T. 2 N., R. 22 W., GASRM													200
Sprall, Wayne 1 Pump SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> sec. 21, T. 1 N., R. 23 W., GASRM													1,350
Sprall, Wayne 1 Well NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> sec. 28, T. 1 N., R. 23 W., GASRM													1,320
Cibola Valley Irrigation and Drainage District 3 Pumps SE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> sec. 20, T. 1 N., R. 23 W., GASRM	678	742	1,752	2,732	2,715	2,120	2,482	1,728	1,702	3,122	1,372	1,000	22,145 2/
Beaver 1 Pump SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> sec. 2, T. 1 S., R. 24 W., GASRM													2,160
Arnett, Howard 1 Pump NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> sec. 1, T. 2 S., R. 24 W., GASRM													2,760
Arnett, Howard 1 Pump NE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> sec. 31, T. 2 S., R. 23 W., GASRM													2,850
Subtotals - Davis Dam to Imperial Dam	830	765	2,619	3,005	3,090	2,499	3,252	2,273	2,519	3,547	1,385	1,000	26,764
	357	948	1,403	1,330	1,463	1,549	1,740	1,828	1,290	878	680	714	14,210

Footnotes are on page 14

DIVERIONS FROM MAINSTREAM -- AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1969

STATE OF ARIZONA

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

Water User	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Pratt, Loren 1 Well SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> sec. 14, T. 7 S., R. 22 W., G&SRM													150
1 Pump SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> sec. 14, T. 7 S., R. 22 W., G&SRM													
Tudore, Tom 1 Well SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> sec. 8, T. 8 S., R. 22 W., G&SRM													1,104
Crows, James 1 Well SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> sec. 7, T. 8 S., R. 22 W., G&SRM	36	19	114	95	103	34	84	64	20	0	0	0	571 2/
Fletcher and Moenk 1 Well SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> sec. 16, T. 8 S., R. 22 W., G&SRM	90	20	140	199	245	305	345	199	255	233	73	50	2,154 2/
Fletcher and Moenk 1 Well SE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> sec. 16, T. 8 S., R. 22 W., G&SRM													1,212
1 Pump SE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> sec. 24, T. 8 S., R. 23 W., G&SRM													11
Shattuck and Whitman Ranch 1 Well SE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> sec. 24, T. 8 S., R. 22 W., G&SRM													1,050
Harp, Earl 1 Well SE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> sec. 13, T. 8 S., R. 23 W., G&SRM													1,368
Pratt, Frank 1 Well SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> sec. 19, T. 8 S., R. 22 W., G&SRM	104	64	94	157	105	136	181	182	167	51	32	93	1,568
Pratt, Frank 1 Well SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> sec. 24, T. 8 S., R. 23 W., G&SRM	0	31	74	40	22	42	96	144	88	20	0	10	567
Muldin, Lee 1 Well NE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> sec. 23, T. 8 S., R. 23 W., G&SRM	0	0	0	3	9	23	0	5	40	36	8	2	126
Bruce Church Company 1 Well SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> sec. 22, T. 8 S., R. 23 W., G&SRM	64	65	5	0	56	42	86	29	18	0	0	0	365

**DIVERSIONS FROM MAINSTREAM — AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1969  
STATE OF ARIZONA**

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

Water User	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS 1/
Power, Pete 1 Well SW 1/4 sec. 31, T. 16 S., R. 23 E., S1M													68
Mauldin, Lee 1 Well NE 1/4 sec. 28, T. 16 S., R. 22 E., S1M	13	0	11	20	19	1	1	1	1	0	0	0	61 2/
Curtis, Armon 1 Pump SW 1/4 sec. 29, T. 16 S., R. 22 E., S1M	35	82	15	14	24	25	3	30	1	55	31	55	370 2/
Power, Bill 1 Pump SE 1/4 sec. 30, T. 16 S., R. 22 E., S1M													1,980
Power, R. E. 1 Pump NW 1/4 sec. 30, T. 16 S., R. 22 E., S1M													1,920
Yucca Power Plant 2 Wells NE 1/4 sec. 36, T. 16 S., R. 21 E., S1M NE 1/4 sec. 36, T. 16 S., R. 21 E., S1M													57 5/
Burrell 1 Well SW 1/4 sec. 33, T. 8 S., R. 24 W., GASRM													150
Cannon, J. O. 1 Well NW 1/4 sec. 25, T. 9 S., R. 25 W., GASRM													780
Sterling, Paul 1 Well SE 1/4 sec. 19, T. 9 S., R. 24 W., GASRM	14	98	176	144	182	164	200	144	9	11	71	1	1,214 2/
Sterling, Paul 1 Well NE 1/4 sec. 19, T. 9 S., R. 24 W., GASRM	1	70	123	101	129	103	138	100	5	6	49	0	885 2/
Sterling, Paul 1 Well NW 1/4 sec. 19, T. 9 S., R. 24 W., GASRM	0	0	87	132	225	166	130	96	6	8	50	0	900 2/

Footnotes are on page 14

**DIVERIONS FROM MAINSTREAM — AVAILABLE RETURN FLOW  
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CALENDAR YEAR 1969**

STATE OF ARIZONA

V(B) Supplemental Sheet 4 of 5  
Other users pumping from  
Colorado River and wells  
in flood plain  
(ACRE - FEET)

Water User	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS 1/
Mechanical and Son 1 Well NE 1/4 NW 1/4 sec. 36, T. 9 S., R. 25 W., GASRM	239	166	242	325	447	486	378	106	153	443	223	231	3,379 2/
Brand, Wayne 1 Well NE 1/4 NW 1/4 sec. 25, T. 9 S., R. 25 W., GASRM					459	521	533	167	50	336	158	117	858
Sibley, Phil 1 Well NE 1/4 NW 1/4 sec. 1, T. 10 S., R. 25 W., GASRM	91	295	130	296									3,153 2/
Jeffers, Floyd 1 Well NE 1/4 SE 1/4 sec. 2, T. 10 S., R. 25 W., GASRM													1,134
Sibley, Phil 1 Well SW 1/4 NE 1/4 sec. 14, T. 10 S., R. 25 W., GASRM	33	39	77	60	102	79	167	64	11	0	0	0	632 2/
Daniel, A. T. 1 Pump SE 1/4 NE 1/4 sec. 23, T. 10 S., R. 25 W., GASRM													360
Lee, James W. 1 Well NW 1/4 NW 1/4 sec. 26, T. 10 S., R. 25 W., GASRM													816
Hunter, J. C. 1 Pump NE 1/4 NW 1/4 sec. 35, T. 10 S., R. 25 W., GASRM													210
Berkley, G. 1 Well NW 1/4 NE 1/4 sec. 35, T. 10 S., R. 25 W., GASRM													360
Brown, Willis A. 1 Well NE 1/4 NW 1/4 sec. 2, T. 11 S., R. 25 W., GASRM	61	40	62	95	116	112	101	61	25	20	0	12	705 2/
Hughes, Earl 1 Well SW 1/4 SE 1/4 sec. 3, T. 11 S., R. 25 W., GASRM	80	347	156	256	150	101	323	111	106	29	8	0	1,667 2/

**DIVERIONS FROM MAINSTREAM — AVAILABLE RETURN FLOW  
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STATE OF ARIZONA**

V(B) Supplemental Sheet 5 of 5  
Other users pumping from  
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		JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS 1/
Water User														
Subtotals - Imperial Dam to Boundary 3/	Diversion	863	1,336	1,506	1,937	2,393	2,282	2,766	1,503	955	1,248	703	571	18,063
	Diversion	519	1,185	1,162	1,448	1,502	1,482	1,594	1,504	1,252	1,152	433	450	13,683
TOTALS - Other Arizona Users pumping from Colorado River and wells in flood plain Davis Dam to International Boundary--included in Arizona totals on page 9	Diversion	2,569	4,234	6,690	7,720	8,448	7,812	9,352	7,108	6,016	6,825	3,201	2,765	72,740

**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.



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DIVERIONS FROM MAINSTREAM — AVAILABLE RETURN FLOW  
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Final Records  
(ACRE - FEET)

Water User	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
<u>Revision to 1967 Report</u>													
Havasu National Wildlife Refuge Inlet-NE½NE¼Sec. 33, T. 9 N., R. 23 E., SEM	4,750	3,440	7,910	7,230	7,000	7,440	7,750	7,330	5,300	5,390	3,350	1,360	68,270
Less diversion from inlet channel by private pump in SE¼SW¼SE¼, Sec. 24, T. 17 N., R. 22 W., GASRM													1,991 1/2
1 well NE¼NE¼NE¼, Sec. 15, T. 8 N., R. 23 E., SEM													164 1/2
Outlet-SW¼SW¼SE¼, Sec. 27, T. 16 N., R. 21 W., GASRM	0	40	188	5,780	589	2,910	1,870	2,530	992	284	316	123	15,622
Return Consumptive Use													51,621
<u>Revision to 1968 Report</u>													
Havasu National Wildlife Refuge Inlet-NE¼NE¼NE¼, Sec. 33, T. 9 N., R. 23 E., SEM	5,220	7,280	9,810	9,330	9,750	9,120	11,600	11,400	10,000	7,420	5,640	4,390	100,960
Less diversion from inlet channel by private pump in SE¼SW¼SE¼, Sec. 24, T. 17 N., R. 22 W., GASRM													1,290 1/2
1 well NE¼NE¼NE¼, Sec. 15, T. 8 N., R. 23 E., SEM													164 1/2
Outlet - SW¼SW¼SE¼, Sec. 27, T. 16 N., Return R. 21 W., GASRM	216	0	133	9,910	1,700	3,010	10,160	7,860	4,330	2,760	1,180	794	42,053
Consumptive Use													57,761

1/ Monthly distribution not available.

(VIB)  
 DIVERSIONS FROM MAINSTREAM — AVAILABLE RETURN FLOW  
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 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 located in NW1/4 of Sec. 29, T. 9 N., R. 23 E., S1/4	84	86	153	209	307	410	472	515	337	207	142	105	3,027
	28	31	68	81	65	100	137	160	126	81	58	47	962
	56	55	85	128	242	310	335	355	211	126	84	58	2,045
Metropolitan Water District of Southern California (Diversion from Lake Havasu)	103,975	92,268	65,376	69,858	89,539	82,628	110,705	110,091	102,157	101,461	97,550	102,967	1,126,575 <sup>1/2</sup>
Palo Verde Irrigation District (Diversion at Palo Verde Diversion Dam)	21,380	61,320	82,670	86,460	90,920	95,210	106,900	114,600	84,680	53,390	42,560	48,020	886,510
	29,630	29,610	39,820	42,780	46,290	44,860	47,090	49,650	48,850	43,200	36,200	36,880	404,860
	-8,250	31,710	42,850	43,680	44,630	50,350	59,810	64,950	35,830	10,190	6,760	11,140	393,650
City of Blythe 10 wells located in Sections 29, 32, and 33, T. 6 S., R. 23 E., S1/4	99	110	190	221	399	391	444	584	361	210	181	124	3,314 <sup>1/2</sup>
East Blythe County Water District 1 well NE1/4 Sec. 33, T. 6 S., R. 23 E., S1/4	16	20	18	20	22	28	32	40	35	26	21	22	300 <sup>1/2</sup>
Yuma Project Reservation Division Indian Unit (Diversion at Imperial Dam)	1,827	4,005	3,391	3,736	2,795	3,376	4,471	4,988	4,054	2,717	1,588	1,765	38,713 <sup>2/2</sup>
Yuma Project Reservation Division Bard Unit (Diversion at Imperial Dam)	1,060	3,625	4,772	4,704	6,642	6,323	6,781	4,050	2,348	3,669	1,039	2,270	47,283 <sup>2/2</sup>
Returns from Yuma Project Reservation Division Drains	1,620	1,380	1,730	1,630	1,830	1,880	1,790	2,180	1,820	1,920	1,790	1,460	21,030
Imperial Irrigation District (Diversion at Imperial Dam)	104,712	202,164	294,664	291,918	288,998	275,301	284,159	282,723	213,632	250,625	121,463	156,665	2,766,924 <sup>1/2</sup>
Coachella Valley County Water District (Diversion at Imperial Dam)	22,657	27,824	39,183	44,847	56,713	53,117	58,037	61,655	51,605	33,581	22,816	23,047	495,022 <sup>1/2</sup>

DIVERIONS FROM MAINSTREAM — AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1969

(in)

Sheet 2 of 2  
Final Records  
(ACRE - FEET)

STATE OF CALIFORNIA

Water User	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
City of Winterhaven													
1 Well													
SEASIDE, sec. 27, T. 16 S.,													
R. 22 E., S8M													
Consumptive Use					4,656	3,795	4,576	4,645	4,260	2,670	1,648	2,086	41,652 <sup>1/</sup>
Other California Users Pumping from													
Colorado River and wells in flood	2,125	3,133	3,850	4,208	4,656	3,795	4,576	4,645	4,260	2,670	1,648	2,086	41,652 <sup>1/</sup>
plain													
Davis Dam to International Boundary													
Consumptive Use													
Diversions	257,935	394,555	494,267	506,181	540,891	520,579	576,577	583,891	463,469	448,556	289,408	337,071	5,413,399 <sup>5/</sup>
Returns	31,278	31,021	41,618	44,491	48,185	46,840	49,017	51,990	50,796	45,201	36,048	38,387	516,872 <sup>5/</sup>
Consumptive Use	226,657	363,534	452,649	461,690	492,706	473,739	527,560	531,901	412,673	403,355	251,360	298,684	4,896,527 <sup>5/</sup>
CALIFORNIA TOTALS													

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

Footnotes

- <sup>1/</sup> No surface returns.
- <sup>2/</sup> 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.
- <sup>3/</sup> Monthly distribution not available.
- <sup>4/</sup> Details on California Supplemental sheets 1-5.
- <sup>5/</sup> The total is 19 acre-feet greater than the sum of the monthly totals because of nonavailability of monthly distribution of diversions by City of Winterhaven.

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

DIVERSIONS FROM MAINSTREAM — AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1969  
STATE OF CALIFORNIA

(ACRE FEET)

Water User	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS 1/
Williams, Floyd 2 Wells SE <sup>1</sup> SW <sup>1</sup> NE <sup>1</sup> sec.31, T.11 N., R.22 E., SBM													1,080
Williams, Floyd 1 Well SE <sup>1</sup> NE <sup>1</sup> SW <sup>1</sup> sec.36, T.11 N., R.21 E., SBM													720
Williams, Floyd 1 Well NW <sup>1</sup> NE <sup>1</sup> SE <sup>1</sup> sec.36, T.11 N., R.21 E., SBM													558
Southern California Gas Company 2 Wells SE <sup>1</sup> SE <sup>1</sup> SE <sup>1</sup> sec.29, T.9 N., R.23 E., SBM													209 2/
P. C. & E. Compressor Station 1 Well (diversion in Arizona) NW <sup>1</sup> NW <sup>1</sup> NE <sup>1</sup> sec.2, T.15 N., R.21 W., G & SBM													84 2/
Rio Mesa Ranch 1 Well SE <sup>1</sup> NE <sup>1</sup> SE <sup>1</sup> sec.9, T.1 S., R.24 E., SBM	0	0	0	0	0	0	0	0	0	0	13	30	43 3/
General Mesa Ranch 1 Well NW <sup>1</sup> SW <sup>1</sup> SW <sup>1</sup> sec.10, T.1 S., R.24 E., SBM	279	247	262	335	242	335	458	491	370	397	184	242	3,842 3/
1 Well NW <sup>1</sup> SW <sup>1</sup> SW <sup>1</sup> sec.10, T.1 S., R.24 E., SBM													
1 Well NW <sup>1</sup> SW <sup>1</sup> SW <sup>1</sup> sec.10, T.1 S., R.24 E., SBM													
1 Well NW <sup>1</sup> SW <sup>1</sup> SW <sup>1</sup> sec.15, T.1 S., R.24 E., SBM													
1 Well NW <sup>1</sup> SW <sup>1</sup> SW <sup>1</sup> sec.15, T.1 S., R.24 E., SBM													
1 Well SW <sup>1</sup> NE <sup>1</sup> NW <sup>1</sup> sec.15, T.1 S., R.24 E., SBM													
1 Well SE <sup>1</sup> NE <sup>1</sup> NE <sup>1</sup> sec.15, T.1 S., R.24 E., SBM													
Lye, R. L. 1 Well SW <sup>1</sup> NW <sup>1</sup> NE <sup>1</sup> sec.16, T.1 S., R.24 E., SBM	5	14	6	18	7	22	27	16	17	13	5	5	155 3/
Swan, James 1 Well NE <sup>1</sup> SW <sup>1</sup> NE <sup>1</sup> sec.14, T.3 S., R.23 E., SBM	0	0	18	28	64	47	52	46	52	17	0	0	324 3/

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 Other users pumping from  
 Colorado River and wells  
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DIVERSIONS FROM MAINSTREAM — AVAILABLE RETURN FLOW  
 AND CONSUMPTIVE USE OF SUCH WATER  
 CALENDAR YEAR 1969  
 STATE OF CALIFORNIA

Water User	(ACRE FEET)												TOTALS 1/
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
Eberhart, C. F. 1 Pump SEC. 14, T. 3 S., R. 23 E., SBM	210	237	276	168	252	254	316	311	310	16	90	238	2,678 3/
Eberhart, C. F. 1 Pump SEC. 13, T. 3 S., R. 23 E., SBM	84	90	128	226	181	212	308	298	272	8	92	114	2,013 3/
Cagle and Wilson 1 Pump SEC. 13, T. 3 S., R. 23 E., SBM	161	166	227	212	312	312	330	416	227	50	138	146	2,697 3/
Harvey, K. E. 1 Pump SEC. 11, T. 4 S., R. 23 E., SBM	0	70	68	58	0	0	0	0	0	0	0	0	196 3/
Clark, Robert 1 Pump SEC. 36, T. 4 S., R. 23 E., SBM	73	79	104	101	89	154	151	106	0	5	12	24	898 3/
Harlin, A. R. 1 Pump SEC. 6, T. 5 S., R. 24 E., SBM	82	227	284	264	130	65	5	6	18	6	9	272	1,368 3/
Harlin, A. R. 1 Pump SEC. 6, T. 5 S., R. 24 E., SBM	8	158	1	45	142	40	10	86	68	15	42	38	653 3/
Harlin, A. R. 1 Pump SEC. 6, T. 5 S., R. 24 E., SBM	7	59	93	114	143	106	123	37	216	159	12	179	1,248 3/
Harlin, A. R. 1 Pump SEC. 7, T. 5 S., R. 24 E., SBM	57	118	150	164	205	107	236	126	284	131	20	142	1,742 3/
Harlin, A. R. 1 Pump SEC. 7, T. 5 S., R. 24 E., SBM	97	110	104	142	465	86	10	93	262	115	23	144	1,651 3/
Anderson, Carl 1 Pump SEC. 13, T. 9 S., R. 21 E., SBM	75	288	51	0	56	90	160	80	1	0	0	0	801 3/
Subtotals-Davis Dam to Imperial Dam	1,138	1,863	1,772	1,875	2,288	1,830	2,188	2,112	2,097	932	640	1,574	20,309
	67	177	262	248	273	289	325	341	240	163	127	139	2,651

DIVERGIONS FROM MAINSTREAM — AVAILABLE RETURN FLOW  
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STATE OF CALIFORNIA

V(b) Supplemental Sheet 3 of 5  
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Water User	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Cole, D. C. 1 Well and 1 Pump NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> sec.35, T.15 S., R.23 E., SEM													516
O'Neal, W. H. 1 Well SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> sec.35, T.15 S., R.23 E., SEM													294
Berryman, Harley 1 Well SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> sec.2, T.16 S., R.23 E., SEM	15	12	31	28	12	31	43	40	26	0	26	0	264 3/4
O'Neal, W. H. 1 Pump SW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> sec.2, T.16 S., R.23 E., SEM													52
Power, Pete 1 Pump NE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> sec.15, T.16 S., R.23 E., SEM													1,992
Mitchell, Hayden 1 Well SE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> sec.22, T.16 S., R.23 E., SEM	0	3	20	65	55	57	57	41	31	0	62	0	391 3/4
Slade 1 Well NE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> sec.6, T.8 S., R.22 W., G & SRM													1,440
Dees, John F. 1 Well SE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> sec.6, T.8 S., R.22 W., G & SRM													864
Spencer, M. E. 1 Well NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> sec.9, T.16 S., R.23 E., SEM	21	32	9	106	48	32	28	79	51	7	26	19	458 3/4
Coley, Marvin 1 Well SE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> sec.18, T.16 S., R.23 E., SEM	0	64	45	43	107	0	0	0	0	0	0	0	259 3/4
Martin, Marvin 1 Well NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> sec.1, T.8 S., R.23 W., G & SRM	8	57	57	5	9	13	0	23	0	0	0	0	172 3/4

DIVERSIONS FROM MAINSTREAM — AVAILABLE RETURN FLOW  
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Other users pumping from  
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(ACRE - FEET)

Water User	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS 1/
Martin, Marvin 1 Well NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> sec.1, T.8 S., R.23 W., G & SRM	83	50	33	50	87	182	273	74	91	103	50	0	1,076 3/4
Harp, Robert 1 Well SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> sec.2, T.8 S., R.23 W., G & SRM	49	2	89	84	68	13	78	63	91	93	66	33	729 3/4
Harp, Robert 1 Well NE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> sec.2, T.8 S., R.23 W., G & SRM	90	31	171	165	140	33	69	156	117	144	42	27	1,185 3/4
Harp, Robert 1 Well NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> sec.12, T.8 S., R.23 W., G & SRM	0	0	45	3	24	32	80	96	109	99	16	0	504 3/4
Easterday, Anne 1 Well SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> sec.1, T.8 S., R.23 W., G & SRM													720
Dees, John F. 1 Well SE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> sec.1, T.8 S., R.23 W., G & SRM													720
Harp, Robert 1 Well SE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> sec.12, T.8 S., R.23 W., G & SRM	7	0	129	35	38	53	127	73	51	27	0	0	540 3/4
Harp, Paul 1 Well SE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> sec.12, T.8 S., R.23 W., G & SRM													720
Easterday, Kenneth 1 Well NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> sec.12, T.8 S., R.23 W., G & SRM	15	94	138	132	138	127	193	125	61	31	153	8	1,215 3/4
Power, Pete 1 Well NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> sec.11, T.8 S., R.23 W., G & SRM													1,104
Hughes, Earl 1 Well NE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> sec.19, T.16 S., R.23 E., SRM	52	4	68	114	97	5	7	11	11	8	75	7	459 3/4

DIVERSIONS FROM MAINSTREAM — AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SURFACE WATER  
CALENDAR YEAR 1969  
STATE OF CALIFORNIA

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

(ACRE - FEET)

Water User	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS 1/
Rutchenson, John 1 Pump S <sup>4</sup> S <sup>2</sup> S <sup>1</sup> sec. 27, T.16 S., R. 22 E., S1M	0	0	99	48	83	111	77	88	111	0	87	2	706 3/
Layton, Chris 1 Pump S <sup>4</sup> S <sup>2</sup> S <sup>1</sup> sec. 29, T.16 S., R. 22 E., S1M	4	1	50	54	44	55	50	63	68	34	0	0	423 3/
Breech, Joe 1 Pump S <sup>4</sup> S <sup>2</sup> S <sup>1</sup> sec. 29, T.16 S., R. 22 E., S1M	231	0	117	262	145	0	0	334	334	320	12	0	1,755 3/
Lewis, Joe 1 Well S <sup>4</sup> S <sup>2</sup> S <sup>1</sup> sec. 29, T.16 S., R. 22 E., S1M	25	14	0	0	75	20	0	0	0	0	0	0	134 3/
Subtotals - Imperial Dam to Boundary	600	364	1,101	1,194	1,170	764	1,082	1,266	1,152	866	615	96	10,270
from Colorado River and wells in flood plain - included in California totals on page 17	320	729	715	891	925	912	981	926	771	709	266	277	8,422
TOTAL - Other California users pumping from Colorado River and wells in flood plain - included in California totals on page 17	2,125	3,133	3,850	4,208	4,656	3,795	4,576	4,645	4,260	2,670	1,648	2,086	41,652

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 Division of Yuma Project.



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

CALENDAR YEAR 1969

STATE OF NEVADA

VIBI

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)	89	79	137	213	275	328	338	356	263	157	117	79	2,431 1/
Lake Mead National Recreation Area (Diversion from Lake Mead) (Diversion from Lake Mohave)	22	18	34	51	72	77	86	84	72	69	46	52	683 2/
Basic Management Inc. (Diversion at Saddle Island, Lake Mead)	1,610	1,429	1,671	1,893	2,006	2,454	2,645	2,511	2,413	1,942	1,686	1,761	24,021 3/
Las Vegas Valley Water District (Diversion at Saddle Island, Lake Mead)	0	0	0	0	139	1,021	1,450	1,648	1,272	1,389	1,371	1,420	9,710 3/
Johns-Manville Sales Corporation (Diversion at Gypsum Wash)	28	23	30	30	38	37	36	37	43	35	29	36	402 1/
Rio Alto Vista Properties Sec. 24, T. 32 S., R. 66 E., MDB & M							7	7	7	7	6	6	40 1/
Ranelli, William C. Lot No. 3, Sec. 13, T. 32 S., R. 66 E., MDB & M													3 1/
Wiebke, Armin T. 1 Pump All except W. 500' and E. 630' of Lot 1, Sec. 33, T. 32 S., R. 66 E., MDB & M													0 1/

DIVERIONS FROM MAINSTREAM -- AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1969  
STATE OF NEVADA

(Acre - Feet)  
NOVEMBER  
DECEMBER  
TOTALS

Sheet 2 of 2  
Final Records

Water User	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Portenier, Warren E. 1 Pump W <sup>1</sup> / <sub>2</sub> , Lot 1, Sec. 33, T. 32 S., R. 66 E., MDB & M													25 5/8
Welles, John C. 1 Pump E <sup>1</sup> / <sub>2</sub> , Lot 2, Sec. 33, T. 32 S., R. 66 E., MDB & M													5 5/8
Cavanagh, Milton E. 1 Pump W <sup>1</sup> / <sub>2</sub> , Lot 2, Sec. 33, T. 32 S., R. 66 E., MDB & M													8 5/8
Southern California Edison Company 1 Portable Pump Sec. 24, T. 32 S., R. 66 E., MDB & M	5	5	5	5	5	5	5	5	5	5	5	5	60
NEVADA TOTALS	1,754	1,554	1,877	2,192	2,535	3,922	4,567	4,648	4,075	3,604	3,260	3,359	37,392 7/8

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 subtotal.  
3/ Portions of return flow in Las Vegas Wash attributable to Basic Management Inc., and to Las Vegas Valley Water District are not assigned.  
4/ Delivered through the facilities of Basic Management Inc., and metered at Booster Pump No. 2.  
5/ Reported annually.  
6/ Reported semiannually, and arbitrarily distributed by months.  
7/ The total is 45 acre-feet greater than the sum of the monthly totals because of the nonavailability of monthly distribution of items footnoted 2/ and 5/.

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 1969

The enclosed tabulations for Calendar Year 1969 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.

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.

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 1969  
STATE OF ARIZONA

V(C)

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 (Diversion of Headgate Rock Dam)	662 0 0	149 0 38	678 0 131	1,384 0 496	954 0 99	1,610 0 595	1,434 0 613	1,488 0 371	1,817 0 244	1,103 0 466	262 0 61	271 0 85	11,812 0 3,159
Yuma Proving Ground, U. S. Army 1/ (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
North Gila Valley Irrigation District (Diversion at Imperial Dam)	881 0 188	744 0 169	625 0 296	545 0 224	783 0 136	722 0 315	966 0 317	845 0 129	700 0 414	1,035 0 639	1,107 0 67	1,406 0 290	10,359 0 3,144
Wellton-Mohawk Irrigation and Drainage District (Diversion at Imperial Dam)	3,802 0 1,188	1,333 0 694	1,174 0 460	1,452 0 724	2,493 0 599	2,049 0 635	1,261 0 313	1,281 0 603	3,368 0 688	3,203 0 1,146	2,941 0 159	2,551 0 597	26,908 0 7,866
Yuma Irrigation District (Diversion at Imperial Dam)	355 0 22	147 0 32	111 0 16	123 0 91	252 0 75	331 0 75	448 0 67	155 0 4	482 0 182	597 0 262	472 0 76	436 0 20	3,909 0 922
Yuma Mesa Irrigation and Drainage District (Diversion at Imperial Dam)	2,460 0 610	616 0 297	797 0 496	583 0 260	601 0 248	1,315 0 222	1,029 0 438	899 0 228	2,174 0 912	1,876 0 831	4,294 0 673	2,953 0 728	19,497 0 5,943
Unit "B" Irrigation and Drainage District (Diversion at Imperial Dam)	702 0 246	331 0 43	182 0 22	115 0 63	292 0 101	167 0 21	103 0 38	278 0 50	446 0 242	635 0 363	736 0 85	494 0 62	4,481 0 1,336
City of Yuma (Diversion at Imperial Dam)	128 0 32	79 0 56	28 0 15	51 0 49	0 0 0	29 0 14	0 0 0	0 0 0	274 0 151	235 0 60	238 0 84	189 0 75	1,251 0 536
Yuma County Water Users' Association (Diversion at Imperial Dam)	4,172 0 1,030	1,389 0 989	4,190 0 2,274	971 0 924	1,923 0 684	3,012 0 1,467	2,669 0 1,783	1,825 0 1,445	2,403 0 1,322	2,201 0 567	6,978 0 2,465	4,124 0 1,644	35,857 0 16,594

1/ No orders received.

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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 1969  
STATE OF ARIZONA

Sheet 2 of 2  
Final Records  
(ACME - FEET)

Water User	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Cocopah Indian Reservation (Diversion at Imperial Dam)	4 0 1	6 0 4	3 0 2	1 0 1	1 0 0	2 0 1	3 0 2	4 0 3	9 0 5	0 0 0	0 0 0	0 0 9	56 0 28
ARIZONA TOTALS	13,166 0 3,317	4,794 0 2,322	7,788 0 3,672	5,225 0 2,832	7,299 0 1,942	9,237 0 3,305	7,913 0 3,571	6,715 0 2,833	11,673 0 4,160	10,885 0 4,334	16,988 0 3,670	12,447 0 3,510	124,130 0 39,468

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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 1969  
STATE OF CALIFORNIA

Final Records  
(ACRE - FEET)

Water User	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Metropolitan Water District (Diversion from Lake Havasu)	725 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	1,935 0 0	609 0 0	0 0 0	839 0 0	1,850 0 0	2,533 0 0	8,491 0 0
Palo Verde Irrigation District (Diversion at Palo Verde Diversion Dam)	2,509 0 30	904 0 178	1,646 0 236	918 0 38	2,745 0 214	1,573 206 0	2,870 149 0	1,622 4 0	3,699 165 0	1,210 159 0	2,481 222 0	1,141 78 0	23,318 1,679 0
Yuma Project Reservation Division - Bard Unit (Diversion at Imperial Dam)	601 0 234	219 0 208	361 0 224	312 0 296	745 0 398	477 0 189	875 0 541	757 0 516	230 0 61	714 0 426	444 0 75	356 0 152	6,091 0 3,320
Yuma Project Reservation Division - Indian Unit (Diversion at Imperial Dam)	1,027 0 399	243 0 230	254 0 157	242 0 230	312 0 167	255 0 101	583 0 360	943 0 644	389 0 104	525 0 313	671 0 113	275 0 118	5,719 0 2,936
Imperial Irrigation District (Diversion at Imperial Dam)	9,975 0 38	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	1,589 0 470	0 0 0	7,498 0 117	0 0 0	19,022 0 625
Cochella Valley County Water District (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
CALIFORNIA TOTALS	14,837 0 701	1,366 0 616	2,861 0 617	1,472 0 564	3,802 0 779	2,305 496 0	6,263 1,050 0	3,931 1,164 0	5,907 800 0	3,288 898 0	12,904 527 0	4,305 348 0	62,641 8,560 0

1/ All water "Ordered but not Diverted" remained in Lake Havasu storage.



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 1969

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 1969

Final Records  
 (ACRE - FEET)

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Deliveries to Mexico in Satisfaction of Treaty	129,714	93,232	202,677	210,784	97,285	125,660	170,249	169,308	90,799	55,370	53,584	101,338	1,500,000
Passing to Mexico in Excess of Treaty Requirements	8,165	6,064	307	205	246	214	134	247	4	20,393	26,565	3,240	65,708

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 1969

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 1969

Final Records  
(ACRE - FEET)

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Gila River													
Diversion													731 1/
Consumptive Use													731 2/
San Francisco River													
Diversion													1,882 1/
Consumptive Use													1,882 2/

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.