

3-460

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

BUREAU OF RECLAMATION
Floyd E. Dominy, 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 1968

Division of Water and Land Operations
Boulder City, Nevada

June 16, 1969

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 1968

The enclosed tabulations for Calendar Year 1968 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 "Divisions for Colorado River Indian Reservation, near Parker, Arizona." The diversions are made at Headgate Rock Dam.

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.

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 1968

Final Records
(ACRE- FEET)

Structure	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Hoover Dam	395,800	495,600	850,000	883,300	852,700	752,100	757,100	692,700	663,300	486,200	456,700	552,600	7,431,000
Davis Dam	438,400	557,200	816,000	860,000	786,800	879,500	866,000	835,600	697,200	508,700	413,000	432,200	6,093,000
Parker Dam	350,500	450,500	679,900	699,500	625,900	722,300	779,400	725,300	582,500	404,300	309,300	312,300	6,642,000
Headgate Rock Dam 1/	334,800	420,600	628,100	655,900	578,000	666,000	716,000	660,500	535,800	377,100	287,700	292,500	6,153,000
Palo Verde Diversion Dam 2/	303,100	358,700	546,000	578,400	501,700	555,800	593,000	555,000	454,000	346,700	246,400	256,900	5,298,000
Imperial Dam	15,430	14,270	20,060	24,380	18,170	20,760	37,070	25,110	17,800	19,920	24,430	49,600	287,200
Laguna Dam 3/	15,030	14,160	19,760	25,220	16,620	21,060	37,920	24,720	17,980	19,740	25,070	49,740	287,000

1/ Colorado River below Parker Dam less diversions at Headgate Rock Dam.
 2/ 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.
 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 1968

The enclosed tabulations for Calendar Year 1968, 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 U. S. 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 1968 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.

(VIB)
 DIVERSIONS FROM MAINSTREAM — AVAILABLE RETURN FLOW
 AND CONSUMPTIVE USE OF SUCH WATER
 CALENDAR YEAR 1968
 STATE OF ARIZONA

Sheet 2 of 3
 Final Records
 (ACRE - FEET)

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Yuma Irrigation District (Diversion at Imperial Dam)	2,207	2,721	4,173	5,222	5,764	4,804	3,188	3,685	4,488	4,204	3,090	2,614	46,160 4/
Yuma Mesa Irrigation and Drainage District (Diversion at Imperial Dam)	10,872	11,535	17,340	22,519	28,995	30,875	32,050	30,919	26,505	12,518	12,653	12,171	5/255,052 1/
Unit "B" Irrigation and Drainage District (Diversion at Imperial Dam)	2,393	1,712	2,497	3,156	4,424	4,319	4,800	4,802	4,247	3,190	1,985	1,651	6/39,376 1/
Returns from South Gila Valley	7,130	6,885	7,874	7,776	818	4,894	8,505	9,225	4,441	2,644	2,703	3,691	66,586
City of Yuma (Diversion at Imperial Dam)	479	509	624	754	278	1,108	1,037	1,311	1,140	817	681	507	9,245 468
Yuma County Water User's Association (Diversion at Imperial Dam) (Pumped from wells)	8	7	16	14	22	36	61	52	66	88	78	20	20 467
Cocopah Indian Reservation (Diversion at Imperial Dam) (Pumped from wells)	471	502	608	740	256	1,072	976	1,259	1,074	729	603	467	8,777
	15,588	26,157	27,419	27,878	31,751	34,716	33,064	31,599	25,594	21,105	18,896	12,181	7/305,948
	897	736	795	810	994	985	947	825	1,070	990	926	1,056	11,131
	10,380	11,060	12,320	11,760	12,190	11,370	10,570	10,950	10,440	11,660	10,660	10,530	133,900
	6,105	15,833	15,894	16,928	20,555	24,331	23,431	21,574	16,224	10,435	9,162	2,707	183,179
	11	330	314	187	102	35	33	25	30	97	20	20	1,204
	1	9	9	6	3	1	1	1	1	5	1	2	40 8/
Other Users pumping from Colorado River and wells from flood plain Davis Dam to International Boundary 9/	3,286	6,220	7,585	10,156	10,189	10,849	10,941	10,207	9,583	6,914	4,590	4,659	95,179
ARIZONA TOTALS	73,221	110,859	161,275	171,643	191,397	209,972	209,548	201,208	169,388	118,774	86,996	76,446	1,781,252
	50,837	46,835	60,274	59,175	52,601	57,027	66,103	68,835	61,423	57,772	50,761	51,366	683,329
	22,384	64,024	101,001	112,468	138,496	152,945	143,445	132,373	107,965	63,002	36,235	25,080	1,097,922

116,924
 1,155,540

117,000

DIVERSIONS FROM MAINSTREAM -- AVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SUCH WATER
CALENDAR YEAR 1968

STATE OF ARIZONA

Sheet 3 of 3
Final Records
(ACRE - FEET)

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS																														
NOTE: The term "Consumptive Use" in this tabulation means measured diversion less measured return to river.																																											
1/ No surface returns.																																											
2/ Final records of diversions and returns are not yet available.																																											
3/ At publication time, gage and measurement records and computations were being reviewed.																																											
4/ Final records for 1967 and 1968 will be reported in the 1969 issue of this report.																																											
5/ Monthly distribution not available.																																											
6/ Pumped from underground and unassigned to districts as returns include quantities of drainage from Yuma Mesa as well as from South Gila Valley.																																											
7/ Includes deliveries to the following water users who have contracts with the United States:																																											
<table border="0"> <tr> <td style="width: 30%;"><u>Contractor</u></td> <td style="width: 40%;"><u>Point of Delivery</u></td> <td style="width: 30%;"><u>Annual Total</u></td> </tr> <tr> <td>City of Yuma</td> <td>B 3.7 Lateral</td> <td>38</td> </tr> <tr> <td>Desert Lawn Memorial Park Association</td> <td>B 3.7 Lateral</td> <td>114</td> </tr> <tr> <td>Southern Pacific Company</td> <td>B 3.7 Lateral</td> <td>11</td> </tr> <tr> <td>Ritz Distributing Company</td> <td>After bay of Yuma Mesa Pumping Plant</td> <td>48</td> </tr> <tr> <td>Yuma Mesa Fruit Grower's Association</td> <td>B 3.7 Lateral</td> <td>10</td> </tr> <tr> <td>County of Yuma, Arizona</td> <td>B 3.7 W Lateral</td> <td>9</td> </tr> <tr> <td>Marine Corps Air Station Department of Navy</td> <td>B 3.6 Lateral</td> <td>23</td> </tr> <tr> <td>Total</td> <td>B Canal and B-5.5 W Lateral</td> <td>1,572</td> </tr> <tr> <td></td> <td></td> <td>1,825</td> </tr> </table>														<u>Contractor</u>	<u>Point of Delivery</u>	<u>Annual Total</u>	City of Yuma	B 3.7 Lateral	38	Desert Lawn Memorial Park Association	B 3.7 Lateral	114	Southern Pacific Company	B 3.7 Lateral	11	Ritz Distributing Company	After bay of Yuma Mesa Pumping Plant	48	Yuma Mesa Fruit Grower's Association	B 3.7 Lateral	10	County of Yuma, Arizona	B 3.7 W Lateral	9	Marine Corps Air Station Department of Navy	B 3.6 Lateral	23	Total	B Canal and B-5.5 W Lateral	1,572			1,825
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10/ Returns include unknown quantities of drainage returns from Yuma Mesa Irrigation and Drainage District as well as from Yuma County Water User's Association and Cocopah Indian Reservation.																																											
11/ Details on Arizona Supplemental Sheets 1 - 7.																																											

4-11-68 J.M. S.C. D.L.F.

**DIVERSIONS FROM MAINSTREAM — AVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SUCH WATER
CALENDAR YEAR 1968
STATE OF ARIZONA**

(18)
Supplemental Sheet 2 of 7
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
McEride, R. B. 1 Well McEride, R. B. sec. 35, T. 16 N., R. 22 W., G & SRM	0	0	0	0	0	0	0	0	0	0	0	0	0
Farrish, Eldon 1 Well Farrish, Eldon sec. 7, T. 17 N., R. 21 W., G & SRM	37	33	35	56	72	106	116	58	82	63	78	13	2/ 749
Farrish, Eldon 1 Well Farrish, Eldon sec. 7, T. 17 N., R. 21 W., G & SRM	30	33	39	62	86	108	110	70	84	12	94	29	2/ 757
Farrish, Eldon 1 Well Farrish, Eldon sec. 11, T. 17 N., R. 22 W., G & SRM	82	136	216	398	334	422	426	293	302	146	19	80	2/ 2,854
Farrish, Eldon 1 Well Farrish, Eldon sec. 11, T. 17 N., R. 22 W., G & SRM	93	129	162	288	185	250	320	212	263	116	15	53	2/ 2,066
Farrish, Eldon 1 Well Farrish, Eldon sec. 13, T. 17 N., R. 22 W., G & SRM	16	59	157	262	61	269	243	250	265	74	74	2	2/ 1,732
Vanderslice, John 1 Well Vanderslice, John sec. 13, T. 17 N., R. 22 W., G & SRM	0	47	33	62	33	60	84	63	88	32	0	0	2/ 502
Gerber, John 2 Wells Gerber, John sec. 13, T. 17 N., R. 22 W., G & SRM	22	0	10	13	23	58	35	45	14	0	0	0	2/ 220
Clayton Farms 2 Pumps Clayton Farms sec. 24, T. 17 N., R. 22 W., G & SRM (opposite 1 & 2)	0	166	786	327	566	617	631	630	748	401	142	3	2/ 5,017
Clayton Farms 1 Well Clayton Farms sec. 34, T. 4 N., R. 22 W., G & SRM	0	0	60	0	0	16	27	12	0	3	0	0	2/ 118

10/11
Part 4

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DIVERSIONS FROM MAINSTREAM — AVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SUCH WATER
CALENDAR YEAR 1968
STATE OF ARIZONA

(18)
Supplemental Sheet 3 of 7
Other users pumping from
Colorado River and well
in flood plain
(ACRE FEET)

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Barrett, F. Wayne 2 Pumps SE 1/4 sec. 16, T.3 N., R.22 W., G & SRM													2,640
VanKorn, George 1 Pump SE 1/4 sec. 28, T.3 N., R.22 W., G & SRM													960
Sprall, Wayne 1 Pump SE 1/4 sec. 21, T.1 N., R.23 W., G & SRM													1,350
Sprall, Wayne 1 well NE 1/4 sec. 28, T.1 N., R.23 W., G & SRM													1,320
Cibola Valley Irrigation and Drainage District 3 Pumps SE 1/4 sec. 20, T.1 N., R.23 W., G & SRM	194	1,046	965	2,459	2,112	1,071	1,575	2,311	2,462	1,607	382	1,836	2/18,020
Beaver 1 Pump SE 1/4 sec. 2, T.1 N., R.24 W., G & SRM													2,160
Arnett, Howard 1 Pump NE 1/4 sec. 1, T.2 S., R.24 W., G & SRM													2,760
Arnett, Howard 1 Pump NE 1/4 sec. 31, T.2 S., R.23 W., G & SRM													2,820
Subroals-Davis Dam to Imperial Dam Diversions 604	715	2,238	2,960	4,565	3,939	8,593	4,689	4,551	4,918	3,070	1,125	2,179	3/36,542
Pratt, Loren 1 well SE 1/4 sec. 14, T.7 S., R.22 W., G & SRM													450
Pratt, Loren 1 Pump SE 1/4 sec. 14, T.7 S., R.22 W., G & SRM													450

3916
47711

DIVERSIONS FROM MAINSTREAM — AVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SUCH WATER
CALENDAR YEAR 1968
STATE OF ARIZONA

(VIB)
Supplemental Sheet 4 of 7
Other users pumping from
Colorado River and wells
in flood plain

		(ACR) FEET)												
		JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Tabor, Tom														
1 Well	SW 1/4 sec. 8, T. 8 S., R. 22 W., G & SRM													
1 Well	SW 1/4 sec. 7, T. 8 S., R. 22 W., G & SRM	58	43	101	91	64	45	70	131	138	0	0	0	2/741
Crove, James														
1 Well	SW 1/4 sec. 7, T. 8 S., R. 22 W., G & SRM	25	89	115	334	437	522	247	196	408	249	320	169	2/3,111
Fletcher and Moenk														
1 Well	SW 1/4 sec. 18, T. 8 S., R. 22 W., G & SRM													
Fletcher and Moenk														
1 Well	SW 1/4 sec. 18, T. 8 S., R. 22 W., G & SRM													912
1 Pump	SW 1/4 sec. 24, T. 8 S., R. 23 W., G & SRM													
Pratt, Frank														
1 Well	SW 1/4 sec. 19, T. 8 S., R. 22 W., G & SRM	146	81	159	201	250	333	193	211	135	170	163	155	2/2,197
Pratt, Frank														
1 Well	SW 1/4 sec. 24, T. 8 S., R. 23 W., G & SRM	12	37	9	45	11	49	108	96	27	0	0	0	2/ 396
Gunter and Shirley														
1 Well	SW 1/4 sec. 24, T. 8 S., R. 23 W., G & SRM	19	151	68	202	63	0	0	0	8	79	136	74	2/ 600
Gunter and Shirley														
1 Well	SW 1/4 sec. 25, T. 8 S., R. 23 W., G & SRM	69	64	95	123	121	205	0	0	0	0	0	32	2/ 709
Gunter and Shirley														
1 Well	SW 1/4 sec. 25, T. 5 S., R. 23 W., G & SRM	4	0	2	0	0	1	1	3	1	1	1	11	2/ 25
Gunter and Shirley														
1 Well	SW 1/4 sec. 25, T. 8 S., R. 23 W., G & SRM	114	29	43	71	68	56	58	63	70	0	0	46	2/ 616
Gunter and Shirley														
1 Well	SW 1/4 sec. 25, T. 5 S., R. 23 W., G & SRM	75	116	139	100	82	166	198	198	155	92	33	100	2/1,454
Gunter and Shirley														
1 Well	SW 1/4 sec. 25, T. 5 S., R. 23 W., G & SRM													

1,104

DIVERSIONS FROM MAINSTREAM — AVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SUCH WATER
CALENDAR YEAR 1968
STATE OF ARIZONA

(V8)
Supplemental Sheet 6 of 7
Other users pumping from
Colorado River and wells
in flood plain

		JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
		(ACRE FEET)												
Yucca Power Plant	Diversion													5/1,028
2 Wells														
NE 1/4 SW 1/4 sec. 36, T.16 S., R.21 E., SRM														
NE 1/4 NW 1/4 sec. 36, T.16 S., R.21 E., SRM														
Jessen and Crowe	Diversion													
1 Well														
SW 1/4 NW 1/4 sec. 33, T.8 S., R.24 W., G & SRM														150
Cannon, J. O.	Diversion													780
1 Well														
NW 1/4 NE 1/4 sec. 25, T.9 S., R.25 W., G & SRM														
McCarty, E. G.	Diversion													
1 Well														
SE 1/4 NW 1/4 sec. 19, T.9 S., R.24 W., G & SRM														
McCarty, E. G.	Diversion													
1 Well														
NE 1/4 NW 1/4 sec. 19, T.9 S., R.24 W., G & SRM														
McCarty, E. G.	Diversion													
1 Well														
NW 1/4 NW 1/4 sec. 19, T.9 S., R.24 W., G & SRM														
McDaniel and Son	Diversion													
1 Well														
NE 1/4 NW 1/4 sec. 36, T.9 S., R.25 W., G & SRM														
Sibley, Phil	Diversion													
1 Well														
NE 1/4 NW 1/4 sec. 1, T.10 S., R.25 W., G & SRM														
Jeffers, Floyd	Diversion													
1 Well														
NE 1/4 SW 1/4 sec. 2, T.10 S., R.25 W., G & SRM														1,134
Sibley, Phil	Diversion													
1 Well														
SW 1/4 NW 1/4 sec. 14, T.10 S., R.25 W., G & SRM														
Daniel, A. T.	Diversion													
1 Pump														
SE 1/4 SW 1/4 sec. 23, T.10 S., R.25 W., G & SRM														360
Lee, James W.	Diversion													
1 Well														
SW 1/4 NW 1/4 sec. 26, T.10 S., R.25 W., G & SRM														616

11/20/68
A. Bert
10

11/20/68
11/20/68
150

11/20/68

11/20/68

DIVERSIONS FROM MAINSTREAM — AVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SUCH WATER
CALENDAR YEAR 1968
STATE OF ARIZONA

(VIB)
Supplemental Sheet 7 of 7
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
Hunter, J. C. 1 Pump													210
Imperial Dam sec. 35, T.10 S., R.25 W., G & SRM													360
Barkley, J. 1 Well													
Imperial Dam sec. 35, T.10 S., R.25 W., G & SRM	41	73	89	113	184	181	148	0	1	38	179	0	2/ 1,047
Brown, Willis A. 1 Well													
Imperial Dam sec. 2, T.11 S., R.25 W., G & SRM	21	364	142	175	255	64	252	116	73	0	10	52	1,524
Hughes, Earl 1 Well													
Imperial Dam sec. 3, T.11 S., R.25 W., G & SRM													
Subtotals - Imperial Dam to Boundary	1,295	1,821	1,949	2,907	3,321	4,039	2,953	2,415	2,058	2,043	1,838	1,265	3/27,904
	672	1,140	1,194	1,208	1,371	1,496	1,425	1,362	1,103	913	814	525	6/13,223
TOTAL - ARIZONA	3,286	6,220	7,585	10,156	10,189	10,849	10,941	10,207	9,583	6,914	4,590	4,659	4/11,179

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.

(8)

DIVERIONS FROM MAINSTREAM -- AVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SUCH WATER
CALENDAR YEAR 1968
STATE OF CALIFORNIA

Sheet 2 of 2
Final Records
(ACRE - FEET)

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Other Users Pumping from Colorado River and wells in flood plain Davis Dam to International Boundary ^{1/}	1,661	3,090	3,757	4,104	4,629	4,677	4,141	5,598	4,001	2,936	2,230	2,600	43,424
CALIFORNIA TOTALS													
Diversions	312,133	373,688	489,499	524,013	544,198	559,638	550,904	559,900	517,854	442,612	361,912	347,746	5,584,206
Returns	28,791	30,927	41,087	43,420	46,479	46,001	48,740	51,935	49,925	45,868	39,101	39,101	511,673
Consumptive Use	283,342	342,761	448,412	480,593	497,719	513,637	502,254	507,965	467,929	396,744	322,513	308,645	5,072,933

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

^{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 All-American Canal.

^{3/} Monthly distribution not available.
^{4/} Details on California Supplemental Sheets 1 - 6.

1968 44 = 4,093,527

DIVERSIONS FROM MAINSTREAM — AVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SUCH WATER
CALENDAR YEAR 1968
STATE OF CALIFORNIA

(18) Supplemental Sheet 1 of 6
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
Williams and Vanderslice 2 wells SE ¹ / ₄ sec. 31, T.11 N., R.22 E., SEM													1,080
Williams and Vanderslice 1 well SE ¹ / ₄ sec. 36, T.11 N., R.21 E., SEM													720
Coto, Amelia 1 well NW ¹ / ₄ sec. 35, T.11 N., R.21 E., SEM													558
Southern California Gas Company 2 wells SE ¹ / ₄ sec. 29, T.9 N., R.23 E., SEM													2/ 226
P. G. & E. Compressor Station 1 well (diversion in Arizona) NW ¹ / ₄ sec. 2, T.15 N., R.21 W., G & SEM													2/ 84
E. B. R. & N. Investment Company 1 well NE ¹ / ₄ sec. 10, T.1 S., R.24 E., SEM	18	27	22	26	52	37	68	67	77	47	2	0	3/ 443
E. B. R. & N. Investment Company 1 well SE ¹ / ₄ sec. 10, T.1 S., R.24 E., SEM	0	0	0	0	0	0	0	19	43	27	0	0	3/ 89
E. B. R. & N. Investment Company 1 well SE ¹ / ₄ sec. 9, T.1 S., R.24 E., SEM													4
E. B. R. & N. Investment Company 1 well SE ¹ / ₄ sec. 9, T.1 S., R.24 E., SEM	6	9	3	19	13	28	26	51	106	66	0	0	3/ 327
Darrel Mesa Ranch 1 well NE ¹ / ₄ sec. 10, T.1 S., R.24 E., SEM	205	251	246	306	404	277	333	251	222	212	236	286	3/ 3,229

Davis
Parker
2-26-68

Parker Cam

DIVERIONS FROM MAINSTREAM — AVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SUCH WATER
CALENDAR YEAR 1968

STATE OF CALIFORNIA

(18) Supplemental Sheet 2 of 6
Other users pumping from
Colorado River and wells
in flood plain

		JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
		(ACRE FEET)												
General Mesa Ranch (Continued)														
1 Well	SW1/4 sec. 15, T.1 S., R.24 E., SRM	0	1	0	4	54	20	46	0	0	0	0	0	3/125
1 Well	SW1/4 sec. 15, T.1 S., R.24 E., SRM	0	254	297	214	346	464	165	367	371	142	225	118	3/2,963
1 Well	SW1/4 sec. 16, T.1 S., R.24 E., SRM	0	0	0	0	0	0	0	0	0	0	0	0	0
1 Well	SW1/4 sec. 12, T.7 N., R.22 W., G & SRM	0	0	0	0	0	0	0	0	0	0	0	0	0
1 Well	SW1/4 sec. 14, T.3 S., R.23 E., SRM	0	0	0	0	0	0	0	0	0	0	0	0	0
1 Well	SW1/4 sec. 14, T.3 S., R.23 E., SRM	0	0	0	0	0	0	0	0	0	0	0	0	0
1 Well	SW1/4 sec. 13, T.3 S., R.23 E., SRM	5	34	21	25	33	26	11	53	24	16	19	2	269
1 Well	SW1/4 sec. 13, T.3 S., R.23 E., SRM	0	68	162	238	238	276	472	137	364	78	0	293	3/2,326
1 Well	SW1/4 sec. 25, T.3 S., R.23 E., SRM	0	149	102	57	0	0	0	0	0	0	0	0	3/308
1 Well	SW1/4 sec. 11, T.4 S., R.23 E., SRM	65	72	105	65	15	0	0	167	140	42	0	0	3/671
1 Well	SW1/4 sec. 36, T.4 S., R.23 E., SRM	109	57	111	78	177	106	63	225	144	68	62	26	3/1,226
1 Well	SW1/4 sec. 6, T.5 S., R.24 E., SRM	25	288	303	203	257	299	133	995	9	246	149	223	3/3,130

DIVERSIONS FROM MAINSTREAM — AVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SUCH WATER
CALENDAR YEAR 1968
STATE OF CALIFORNIA

(VIB)
Supplemental Sheet 3 of 6
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
Harlin, A. R.	Diversion	2	4	14	8	10	13	1	21	25	7	2	2	3/109
1 Pump														
NE 1/4 sec. 6, T.5 S., R.24 E., SBM														
Harlin, A. R.	Diversion	45	42	79	8	1	119	50	155	129	118	48	79	3/864
1 Pump														
NE 1/4 sec. 6, T.5 S., R.24 E., SBM														
Harlin, A. R.	Diversion	67	145	216	168	144	138	132	186	152	65	91	110	3/1,608
1 Pump														
NE 1/4 sec. 7, T.5 S., R.24 E., SBM														
Harlin, A. R.	Diversion	166	8	110	117	90	94	40	235	117	61	52	105	3/1,198
1 Pump														
NE 1/4 sec. 7, T.5 S., R.24 E., SBM														
Anderson, Carl	Diversion	91	0	17	2	0	15	28	16	62	2	33	30	3/ 296
1 Pump														
SW 1/4 sec. 13, T.9 S., R.21 E., SBM														
Milpitas Cattle Company	Diversion													600
1 Pump														
NE 1/4 sec. 23, T.10 S., R.21 E., SBM														
Milpitas Cattle Company	Diversion													131
1 Pump														
SW 1/4 sec. 25, T.10 S., R.21 E., SBM														
Subtotals - Davis Dam to Imperial Dam	Diversion	810	1,116	1,813	1,535	1,640	1,909	1,274	2,045	1,985	1,200	960	1,280	4/ 19,267
1 Pump	Diversion	153	258	375	374	394	436	475	476	381	225	206	175	3/ 3,924

10/25/68
 10/25/68
 10/25/68

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

CALENDAR YEAR 1968

STATE OF CALIFORNIA

(VIB)
Supplemental Sheet 5 of 6
Other users pumping from
Colorado River and wells
in flood plain

(ACRL FLEET)

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Marvin, Marvin 1 Well NE 1/4 sec. 1, T.8 S., R.23 W., G & SRM	0	0	77	118	195	123	91	68	132	136	127	32	3/ 1,099
Harp, Robert 1 Well SE 1/4 sec. 2, T.8 S., R.23 W., G & SRM	0	32	32	40	59	16	21	54	72	86	21	48	3/ 481
Harp, Robert 1 Well NE 1/4 sec. 2, T.8 S., R.23 W., G & SRM	2	48	106	209	108	58	132	239	309	186	58	70	3/ 1,525
Harp, Robert 1 Well NE 1/4 sec. 12, T.8 S., R.23 W., G & SRM													120
Easterday, Anne 1 Well SE 1/4 sec. 1, T.8 S., R.23 W., G & SRM													720
Deez, John F. 1 Well SE 1/4 sec. 1, T.8 S., R.23 W., G & SRM													720
Harp, Robert 1 Well SE 1/4 sec. 12, T.8 S., R.23 W., G & SRM													948
Harp, Paul 1 Well SE 1/4 sec. 12, T.8 S., R.23 W., G & SRM													720
Harp, Earl 1 Well SE 1/4 sec. 13, T.8 S., R.23 W., G & SRM													1,080
Easterday, Kenneth 1 Well NE 1/4 sec. 12, T.8 S., R.23 W., G & SRM	2	52	41	173	210	350	146	118	0	81	0	87	3/ 1,262
Pover, Pete 1 Well NE 1/4 sec. 11, T.8 S., R.23 W., G & SRM													1,104
Hughes, Earl 1 Well NE 1/4 sec. 19, T.16 S., R.23 E., SRM	1	58	59	73	97	2	111	112	50	5	4	40	3/ 612

DIVERSIONS FROM MAINSTREAM — AVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SUCH WATER
CALENDAR YEAR 1968
STATE OF CALIFORNIA

(18)
Supplemental Sheet 6 of 6
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
Hutchenson, John 1 Pump SE ¹ / ₄ SE ¹ / ₄ sec.27, T.16 S., R.22 E., S1M													180
Diversion	85	38	2	187	129	107	130	107	13	82	45	92	2/1,017
Layton, Chris 1 Pump SW ¹ / ₄ SE ¹ / ₄ sec.29, T.16 S., R.22 E., S1M	0	73	53	97	58	145	78	82	0	0	0	0	3/ 586
Diversion	0	73	53	97	58	145	78	82	0	0	0	0	3/ 586
Breech, Joe 1 Pump SW ¹ / ₄ SE ¹ / ₄ sec.29, T.16 S., R.22 E., S1M	25	32	0	41	18	41	43	59	11	0	0	27	3/ 297
Diversion	25	32	0	41	18	41	43	59	11	0	0	27	3/ 297
Lewis, Joe 1 Well NW ¹ / ₄ SW ¹ / ₄ sec.29, T.16 S., R.22 E., S1M													
Subtotals - Imperial Dam to Boundary	152 546	489 927	598 971	1,213 982	1,280 1,115	1,116 1,216	934 1,158	1,070 1,107	738 897	769 742	402 662	718 427	9,479 10,750
TOTAL - CALIFORNIA	1,661	3,090	3,757	4,104	4,659	4,677	4,141	5,598	4,001	2,936	2,230	2,600	43,424

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.

DIVERIONS FROM MAINSTREAM -- AVAILABLE RETURN FLOW
AND CONSUMPTIVE USE OF SUCH WATER
CALENDAR YEAR 1968

V(B)

STATE OF NEVADA

Sheet 2 of 2
Fig. B-3922A
(ACME-1968)

Water User	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
NEVADA TOTALS													33,614
Diversion													
Return													
Consumptive Use													

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 Foster Park, July 2.
- 5/ Reported annually.

1969 S.U. = 37,392 c.f.

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 1968

The enclosed tabulations for Calendar Year 1968 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

(VIC)

AND
QUANTITY OF SUCH WATER DELIVERED TO MEXICO IN SATISFACTION OF MEXICAN TREATY OR DIVERTED BY OTHERS
CALENDAR YEAR 1968
STATE OF ARIZONA

Final Records
(ACMG - FEET)

Water User	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Colorado River Indian Reservation (Diversion at Headgate Rock Dam)	109	32	480	540	488	101	93	224	778	617	238	101	3,801
	0	0	0	0	0	0	0	0	0	0	0	0	0
	14	30	139	165	188	55	73	20	240	157	137	53	1,271
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	563	505	845	311	617	986	555	775	531	736	857	325	7,606
(Diversion at Imperial Dam)	168	63	123	234	198	633	147	355	418	367	149	65	2,920
Wellton-Pohawk Irrigation and Drainage District	972	942	1,634	1,275	761	1,896	4,895	4,564	783	2,184	799	1,067	21,772
(Diversion at Imperial Dam)	190	387	292	851	698	1,559	968	2,311	632	1,553	323	504	10,288
Yuma Irrigation District	117	137	282	151	43	194	246	460	255	547	276	216	2,924
(Diversion at Imperial Dam)	48	4	68	105	10	93	50	198	208	220	70	46	1,120
Yuma Mesa Irrigation and Drainage District	1,006	831	809	1,371	736	956	1,537	1,662	1,345	1,853	1,444	1,855	15,405
(Diversion at Imperial Dam)	504	284	81	716	458	547	119	754	966	883	244	774	6,360
"Unit B" Irrigation and Drainage District	123	327	289	121	89	270	165	212	299	373	188	290	2,746
(Diversion at Imperial Dam)	46	47	40	34	77	147	8	172	172	252	20	20	1,035
City of Yuma													
(Diversion at Imperial Dam)	0	76	27	0	661	214	258	0	15	124	160	113	1,648
	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	49	13	0	309	80	131	0	12	58	80	78	810
Yuma County Water Users' Association	2,023	2,291	1,684	2,135	866	1,508	2,156	1,663	1,422	2,754	3,395	3,374	25,271
(Diversion at Imperial Dam)	1,169	1,466	837	1,691	404	564	1,092	676	1,100	1,284	1,694	2,337	14,314
Cocopah Indian Reservation	2	25	15	11	2	2	2	1	1	10	3	4	76
(Diversion at Imperial Dam)	1	16	7	9	1	1	1	0	1	5	1	3	46
ARIZONA TOTALS	4,915	5,166	6,065	5,915	4,263	6,127	9,907	9,561	5,429	9,198	7,360	7,345	81,251
	0	0	0	0	0	0	0	0	0	0	0	0	0
	2,140	2,346	1,600	3,835	2,343	3,679	2,609	4,486	3,749	4,779	2,718	3,880	36,164

1/ No orders received

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 1968
STATE OF CALIFORNIA

Final Records
(ACRE - FEET)

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Metropolitan Water District (Division from Lake Havasu)	0	522	0	1,334	0	0	1,878	0	749	1,563	2,582	521	9,149
	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
Palo Verde Irrigation District (Division of Palo Verde Diversion Dam)	914	549	2,577	1,117	2,174	1,194	3,977	2,787	2,761	1,813	1,315	1,111	22,269
	0	0	0	0	0	0	0	0	0	0	0	0	0
	73	26	117	151	139	268	607	415	36	50	24	300	2,206
Yuma Project Reservation Division Bard Unit (Division at Imperial Dam)	245	79	257	522	671	388	891	830	332	78	467	232	4,992
	0	0	0	0	0	0	0	0	0	0	0	0	0
	145	62	193	515	330	315	444	582	184	25	286	101	3,183
Yuma Project Reservation Division Indian Unit (Division at Imperial Dam)	279	108	165	410	497	328	773	971	565	150	933	401	5,580
	0	0	0	0	0	0	0	0	0	0	0	0	0
	165	85	124	406	245	266	385	681	312	48	571	175	3,463
Imperial Irrigation District (Division at Imperial Dam)	0	0	6,510	0	0	0	13,940	0	0	0	0	0	20,450
	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	278	0	0	0	26	0	0	0	0	0	304
Coachella Valley County Water District (Division 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	1,438	1,258	9,509	3,383	3,342	1,910	21,439	4,588	4,407	3,604	5,297	2,265	62,440
	0	0	0	0	0	0	0	0	0	0	0	0	0
	383	173	712	1,073	714	849	1,462	1,678	532	123	881	576	9,156

✓ 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 1968

DELIVERIES TO MEXICO IN SATISFACTION OF PART III OF 1944 TREATY
 AND
 WATER PASSING TO MEXICO IN EXCESS OF TREATY REQUIREMENTS
 CALENDAR YEAR 1968

V(D)

Final Records
(ACRE - FEET)

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Deliveries to Mexico in Satisfaction of Treaty	129,713	90,799	186,463	210,784	92,285	124,038	186,463	180,788	96,915	55,370	53,585	92,797	1,500,000
Passing to Mexico in Excess of Treaty Requirements	1,996	7,803	419	82	150	223	7,834	186	268	18,803	18,449	6,524	62,737

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 1968

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 1968

(ACRE - FEET)

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Gila River													1/ 813
Diversions													2/ 813
Consumptive Use													
San Francisco River													1/ 1,100
Diversions													2/ 1,100
Consumptive Use													

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.