

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
Cecil D. Andrus, Secretary

WATER AND POWER RESOURCES SERVICE  
R. Keith Higginson, Commissioner

LOWER COLORADO REGION  
Eugene Hinds, 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

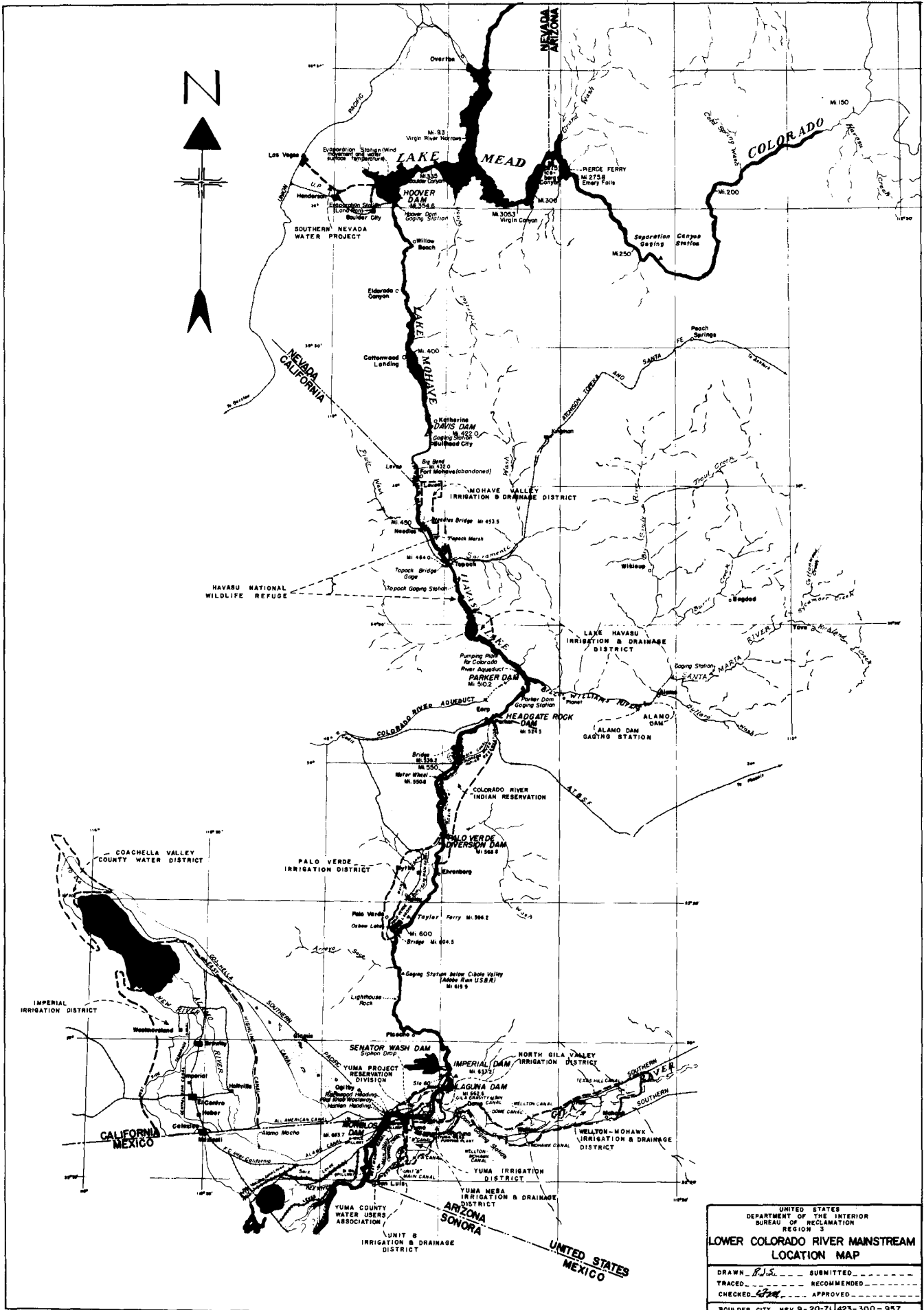
CALENDAR YEAR 1978

Division of Water and Land Operations  
Boulder City, Nevada

December 15, 1979

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UNITED STATES  
 DEPARTMENT OF THE INTERIOR  
 BUREAU OF RECLAMATION  
 REGION 3  
**LOWER COLORADO RIVER MAINSTREAM  
 LOCATION MAP**  
 DRAWN *P.S.* SUBMITTED \_\_\_\_\_  
 TRACED \_\_\_\_\_ RECOMMENDED \_\_\_\_\_  
 CHECKED *Law* APPROVED \_\_\_\_\_  
 BOULDER CITY, NEV. 9-20-71, 423-300-957

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

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CALENDAR YEAR 1978

The following tabulations for calendar year 1978 show final records of releases of water through regulatory structures controlled by the United States. At Hoover, Davis, Parker, Palo Verde, Imperial, and Laguna Dams, the records are furnished by the 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.

RELEASE OF WATER THROUGH REGULATORY STRUCTURES  
CONTROLLED BY THE UNITED STATES

VIA)

CALENDAR YEAR 1978

(ACRE - FEET)

WATER USER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Hoover Dam	234,900	429,200	740,400	901,700	859,900	654,000	830,700	892,200	688,300	502,000	375,300	367,900	7,476,000
Davis Dam	209,300	474,100	809,000	960,200	779,400	887,000	997,900	883,300	666,600	400,200	331,100	325,400	7,724,000
Parker Dam	136,700	397,800	692,100	849,100	678,800	762,800	905,900	791,500	573,000	360,300	269,300	270,100	6,685,000
Headgate Rock Dam <sup>1/</sup>	130,200	385,200	647,100	778,400	614,600	683,300	819,800	704,900	515,300	333,100	252,600	254,700	6,119,200
Palo Verde Dam <sup>2/</sup>	123,700	324,300	528,300	649,600	514,300	560,200	671,800	596,800	426,100	290,100	224,100	223,200	5,133,000
Imperial Dam <sup>3/</sup>	74,960	21,870	36,430	22,140	45,260	22,040	23,640	21,930	49,460	31,690	24,510	24,640	398,600
Laguna Dam	76,520	23,510	37,650	20,550	46,160	21,120	23,820	21,890	49,890	32,470	25,890	28,340	407,800

<sup>1/</sup> Colorado River below Parker Dam less diversions at Headgate Rock Dam.  
<sup>2/</sup> Measured through river gates at Palo Verde Dam.  
<sup>3/</sup> Includes diversions to Mittry Lake.

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

ARIZONA v. CALIFORNIA

DATED MARCH 9, 1964

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CALENDAR YEAR 1978

The following tabulations for calendar year 1978 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, Water and Power Resources Service, National Park Service, Fish and Wildlife Service, and water user agencies. Diversions to All-American Canal and Gila Gravity Main Canal at Imperial Dam were assigned to each user based on deliveries to each user at its turnout from the canal and a prorated amount of the conveyance loss from the canal. The loss proration was based on the quantity delivered to each user and the length of the canal through which it was carried.

The tables also show estimates of water use by water users other than those which have contracts with the United States. Records of quantities of water pumped by permittees under the Lower Colorado River Land Use Program and by others are incomplete or not available. Consequently, estimates of pumpage from the mainstream, from both the river and the 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 1978 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 measurement; (2) For pumps other than electric, a factor of 6 acre-feet per irrigated acre per year was used. Irrigated acres were determined by field inventory during the year made with the aid of aerial photographs which were taken during May - August 1976.

There are undetermined amounts of unmeasured return flow reaching the Colorado River by means of underground flow from aquifers underlying water user areas. 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 Water and Power Resources Service and the Geological Survey which are jointly conducting a program to determine the location and amounts of such unmeasured return flows. When quantities are determined, it is anticipated that such amounts will be credited to the affected users and States in making the consumptive use computations.

DIVERSIONS FROM MAINSTREAM - AVAILABLE RETURN FLOW

V(B)

AND CONSUMPTIVE USE OF SUCH WATER

CALENDAR YEAR 1978

STATE OF ARIZONA

(ACRE - FEET) Sheet 1 of 4

WATER USER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS	
Lake Mead National Recreation Area Diversion from Lake Mohave		7	6	12	18	22	31	36	34	30	22	12	9	239
														1/
Davis Dam and Government Camp Diversion at Davis Dam		4	4	6	11	20	41	40	41	27	18	8	4	224
														1/
Mohave Valley Irrigation and Drainage District pumped from wells and Inlet channel to Havasu National Wildlife Refuge	188	287	790	2,112	2,145	2,858	3,947	3,451	1,931	698	491	177	19,075	
														1/
Fort Mohave Indian Reservation Pumped from Colorado and wells in the flood plain	338	288	1,682	2,200	1,712	2,085	4,027	3,531	2,117	1,063	887	258	20,188	
														1/
Havasu National Wildlife Refuge Inlet - NW 1/4, Sec. 33, T. 9 N., R. 23 E., SIM	38	0	6,077	1,207	3,954	6,237	3,428	6,735	4,048	1,845	1,221	1,531	36,321	
	0	0	0	0	0	0	0	0	0	2,561	0	0	2,561	
	38	0	6,077	1,207	3,954	6,237	3,428	6,735	4,048	-716	1,221	1,531	33,760	
Lake Havasu Irrigation and Drainage District pumped from wells	324	332	449	575	716	874	922	1,079	797	743	522	438	7,771	
														1/
Graham Water Utilities Inc. Pumped from river and wells	6	5	8	7	10	11	12	11	11	9	8	8	106	
														1/
Holiday Harbor Utilities Inc. Pumped from wells	0	0	1	1	1	1	1	1	2	1	1	1	11	
														1/
Town of Parker 1 well - NW 1/4, Sec. 7, T. 9 N., R. 19 W., GASIM	38	34	50	63	84	103	114	112	94	75	49	41	857	
														1/



DIVERSIONS FROM MAINSTREAM - AVAILABLE RETURN FLOW

V(B)

AND CONSUMPTIVE USE OF SUCH WATER

CALENDAR YEAR 1978

STATE OF ARIZONA

(ACRE FEET) Sheet 3 of 4

WATER USER		JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
<b>Wellton-Mohawk Irrigation and Drainage District</b>														
Diversion at Imperial Dam	Diversion	6,633	23,649	38,254	46,621	48,841	61,316	61,313	54,415	44,076	27,559	20,327	16,272	449,276
	Return	17,596	15,376	17,298	16,930	16,626	15,858	14,208	14,890	13,613	15,152	14,347	13,133	185,027 3/
	Consumptive Use	-10,963	8,273	20,956	29,691	32,215	45,458	47,105	39,525	30,463	12,407	5,980	3,139	264,249
<b>Yuma Irrigation District</b>														
Diversion at Imperial Dam	Diversion	1,043	5,147	4,825	5,978	6,453	5,773	6,788	5,992	4,478	3,904	4,679	3,177	58,237
Pumped from Private wells	Return	337	455	478	1,079	752	1,058	1,157	1,056	779	526	410	420	8,507 1/
	Consumptive Use													
<b>Yuma Mesa I. &amp; D.D.</b>														
Diversion at Imperial Dam	Diversion	2,213	8,484	12,724	15,366	24,572	27,101	29,907	28,681	22,269	15,011	10,293	10,196	206,817 5/
	Return													1/
	Consumptive Use													
<b>Unit B I. &amp; D.D.</b>														
Diversion at Imperial Dam	Diversion	187	1,805	2,144	3,053	4,310	4,925	5,163	5,357	3,540	2,922	1,790	1,563	36,759 6/
	Return													1/
	Consumptive Use													
<b>Return from South Gila Valley</b>														
	Returns	2,864	4,909	6,177	6,939	4,495	4,148	5,884	5,787	3,673	2,902	2,219	5,330	55,327 4/
<b>City of Yuma</b>														
Diversion at Imperial Dam	Diversion	629	599	832	1,118	1,397	1,460	1,869	1,727	1,586	1,194	986	847	14,244
	Return	420	351	413	432	447	384	389	395	475	502	485	495	5,188
	Consumptive Use	209	248	419	686	950	1,076	1,480	1,332	1,111	692	501	352	9,056
<b>Yuma County Water Users Association</b>														
Diversion at Imperial Dam	Diversion	4,285	20,831	23,930	25,729	29,451	36,920	40,897	27,050	25,969	19,953	13,252	10,671	278,938 7/
Pump from wells	Diversion	734	650	697	683	779	620	605	737	862	886	758	765	8,776
	Return	5,858	5,913	7,205	7,032	7,007	6,746	7,048	7,231	7,080	7,146	6,712	6,325	81,303
	Consumptive Use	-839	15,568	17,422	19,380	23,223	30,794	34,454	20,556	19,751	13,693	7,298	5,111	206,411
<b>Cocopah Indian Reservation</b>														
Diversion at Imperial Dam	Diversion	0	0	0	159	48	209	188	111	91	0	0	0	806
Pump from wells	Diversion	0	0	88	121	67	138	190	249	75	0	0	0	928
	Return													1/
	Consumptive Use													
<b>Yuma Mesa Outlet Drain</b>														
	Return	619	2,426	2,194	2,749	3,291	3,074	3,144	3,213	3,189	2,507	2,572	2,580	31,558 8/

DIVERSIONS FROM MAINSTREAM - AVAILABLE RETURN FLOW

V(B)

AND CONSUMPTIVE USE OF SUCH WATER

CALENDAR YEAR 1978

STATE OF ARIZONA

(ACRE - FEET) Sheet 4 of 4

WATER USER		JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Arizona Department of Game & Fish Wildlife Enhancement under Title 1 Mitigation 1 well SE 1/4, Sec. 35, T. 10 S., R. 25 W., G&SRM	Diversion Return Consumptive Use	0	0	0	21	22	21	24	21	23	22	16	23	193
Other users pumping from Colorado River and wells in flood plain Davis Dam to International Boundary	Diversion 2/	2,837	3,889	5,024	8,639	8,597	9,845	10,572	9,157	8,194	6,204	4,256	3,414	80,628
Arizona Totals	Diversion Return Consumptive Use	27,802 41,455 -13,653	83,272 40,119 43,153	148,260 48,919 99,341	192,697 59,346 133,351	205,038 59,888 145,150	248,034 58,158 189,876	265,073 61,749 204,411	243,043 55,183 181,294	185,768 53,421 130,585	115,024 43,287 61,603	77,956 43,287 34,669	67,868 42,706 25,162	1,859,835 624,893 1,234,942

NOTE: The term "Consumptive Use" in this tabulation means measured diversions including underground pumping, less measured return flow and less current estimated unmeasured return flow to the river.

1/ No surface returns.

2/ Calculated from monthly power records.

3/ Includes 182,036 acre-feet of Wellton-Mohawk drainage delivered to Mexico in excess of minimum treaty requirements pursuant to provisions of Minute No. 242, and may include pumped Gila River water.

4/ Pumped from underground and unassigned to districts as returns include quantities of drainage from Yuma Mesa as well as from South Gila Valley.

5/ Includes deliveries to the following water users who have contracts with the United States.

Contractor	Point of Delivery	Annual Delivery (acre-feet)
City of Yuma	B3.7 Lateral	10
Desert Lawn Memorial	B3.7 Lateral	129
Southern Pacific Company	B3.7 Lateral	12
Southern Pacific Company	After bay of Yuma Mesa Pumping Plant	48
Yuma Mesa Fruit Growers Association	B3.7 W. Lateral	12
County of Yuma, Arizona	B3.8 Lateral	12
Marine Corps Air Station, Department of the Navy	B Canal and B-5.5 W. Lateral	2,101
TOTAL		2,324

6/ Includes deliveries to the following water users who have contracts with the United States.

University of Arizona	B Main Canal	786
Camille Alec, Jr.	B-8 Lateral	92

7/ Includes deliveries to the following water users who have contracts with the United States.

Yuma Union High School District	Yuma Main Canal	938
City of Yuma - Smucker Park	Yuma Main Canal	96

8/ Returns include unknown quantities of drainage returns from Yuma Mesa Irrigation and Drainage District as well as from Yuma County Water Users' Association and Cocopah Indian Reservation.

9/ Details on Arizona Supplemental Sheets 1-4.

10/ Monthly distribution not available, distributed according to monthly distribution of other users in immediate area.

DIVERSIONS FROM MAINSTREAM - AVAILABLE RETURN FLOW

V(B)

AND CONSUMPTIVE USE OF SUCH WATER

CALENDAR YEAR 1978

STATE OF ARIZONA

(ACRE - FEET) Sheet 1 of 4

WATER USER		JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS <u>1/</u>
Ralph Clayton														
2 pumps														
SW <sup>1</sup> SE <sup>1</sup> SW <sup>1</sup> , Sec. 34, T. 4 N., R. 22 W., G&SRM	Diversion	10	26	87	68	20	25	99	85	69	35	1	33	558 <u>2/</u>
1 pump														
SW <sup>1</sup> SW <sup>1</sup> SW <sup>1</sup> , Sec. 34, T. 4 N., R. 22 W., G&SRM	Diversion	0	0	0	0	0	11	11	0	0	55	0	0	77 <u>2/</u>
Arkellian Farms														
2 pumps														
SE <sup>1</sup> NW <sup>1</sup> SE <sup>1</sup> , Sec. 16, T. 3 N., R. 22 W., G&SRM	Diversion													2,400 <u>2/</u>
Sprall (A. Towery)														
1 pump														
SE <sup>1</sup> SW <sup>1</sup> NW <sup>1</sup> , Sec. 21, T. 1 N., R. 23 W., G&SRM	Diversion													3,372
Cibola Valley Irrigation and Drainage District														
3 pumps														
SE <sup>1</sup> SE <sup>1</sup> NW <sup>1</sup> , Sec. 20, T. 1 N., R. 23 W., G&SRM	Diversion	1,113	58	1,003	1,932	2,121	2,500	2,974	2,149	2,700	1,507	863	821	19,741 <u>2/</u>
Swan, Ron														
1 pump														
SW <sup>1</sup> NW <sup>1</sup> NW <sup>1</sup> , Sec. 2, T. 15 N., R. 24 W., G&SRM	Diversion													240
Bishop, Louis														
1 pump														
NW <sup>1</sup> SW <sup>1</sup> SW <sup>1</sup> , Sec. 31, T. 1 S., R. 23 W., G&SRM	Diversion													1,200
Martinez, Sam														
2 pumps														
NW <sup>1</sup> NW <sup>1</sup> SW <sup>1</sup> , Sec. 1, T. 2 S., R. 24 W., G&SRM	Diversion													2,534 <u>5/</u>
HIM Permittees														
Davis Dam to Imperial Dam	Diversion													66
Subtotals-Davis Dam to Imperial Dam	Diversion <u>3/</u>	1,123	84	1,090	2,000	2,141	2,536	3,084	2,234	2,769	1,597	864	854	20,376
	Diversion <u>4/</u>	541	41	525	963	1,031	1,221	1,485	1,076	1,333	769	416	411	9,812
Pratt, Loren														
1 well														
SW <sup>1</sup> NW <sup>1</sup> NW <sup>1</sup> , Sec. 14, T. 7 S., R. 22 W., G&SRM	Diversion													228
1 pump														
SE <sup>1</sup> SW <sup>1</sup> NW <sup>1</sup> , Sec. 14, T. 7 S., R. 22 W., G&SRM	Diversion													222
Dulin, Arlin														
2 wells														
SW <sup>1</sup> NW <sup>1</sup> SE <sup>1</sup> , Sec. 8, T. 8 S., R. 22 W., G&SRM	Diversion	0	179	41	153	119	555	371	536	226	2	0	3	2,185 <u>2/</u>

DIVERSIONS FROM MAINSTREAM - AVAILABLE RETURN FLOW

V(B)

AND CONSUMPTIVE USE OF SUCH WATER

CALENDAR YEAR 1978

STATE OF ARIZONA

(ACRE FEET) Sheet 2 of 4

WATER USER		JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Sturges, Steve 9 wells Sec. 18, T. 8 S., R. 21 W., and Sec.'s 13 & 14, T. 8 S., R. 22 W., G&SRM	Diversion	622	1,432	1,619	2,452	1,927	1,934	2,135	1,571	1,122	1,131	1,024	689	17,658 2/
Yowelman, R. 1 well NW 1/4 SW 1/4, Sec. 17, T. 8 S., R. 22 W., G&SRM	Diversion													720
Auza, Pete 1 well SE 1/4 NW 1/4, Sec. 18, T. 8 S., R. 22 W., G&SRM	Diversion	43	36	66	84	159	183	0	323	206	146	69	6	1,321 2/
1 pump SE 1/4 SE 1/4, Sec. 24, T. 8 S., R. 22 W., G&SRM	Diversion													1,590
1 well SE 1/4 SE 1/4, Sec. 18, T. 8 S., R. 22 W., G&SRM	Diversion													1,590
Ott, Judd T. 1 well NW 1/4 NE 1/4, Sec. 30, T. 8 S., R. 22 W., G&SRM	Diversion	8	26	40	85	95	132	97	53	83	54	28	28	729 2/
1 well SE 1/4 SW 1/4, Sec. 19, T. 8 S., R. 22 W., G&SRM	Diversion	40	40	32	41	46	67	73	56	52	37	29	45	558 2/
Cameron Bros. 1 well SE 1/4 NE 1/4, Sec. 24, T. 8 S., R. 22 W., G&SRM	Diversion	18	33	70	164	244	266	199	435	180	143	72	0	1,824 2/
Harp, Robert 1 well SE 1/4 NE 1/4, Sec. 13, T. 8 S., R. 23 W., G&SRM	Diversion													1,458
Vukasovich 1 well SW 1/4 SW 1/4, Sec. 24, T. 8 S., R. 23 W., G&SRM	Diversion	6	26	25	56	54	84	36	99	26	42	42	22	518 2/
Stanford, Robert L. 1 well SW 1/4 SE 1/4, Sec. 22, T. 8 S., R. 23 W., G&SRM	Diversion													480
Sunkist of Yuma 1 well NE 1/4 SE 1/4, Sec. 23, T. 8 S., R. 23 W., G&SRM	Diversion													63

DIVERSIONS FROM MAINSTREAM - AVAILABLE RETURN FLOW

V(B)

AND CONSUMPTIVE USE OF SUCH WATER

CALENDAR YEAR 1978

STATE OF ARIZONA

(ACRE FEET) Sheet 3 of 4

WATER USER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS <u>1/</u>	
Yucca Power Plant														
1 well NE $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ , Sec. 36, T. 16 S., R. 21 E., SEM													27	
1 well NE $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$ , Sec. 36, T. 16 S., R. 21 E., SEM													932	
Munnaley (G. Russell)														
1 well NE $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ , Sec. 28, T. 16 S., R. 22 E., SEM		6	1	1	28	1	21	36	32	33	3	5	3	170 <u>2/</u>
Curtis, A. (A. Jennings)														
1 pump SW $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$ , Sec. 29, T. 16 S., R. 22 E., SEM		0	0	0	54	0	37	71	58	34	0	0	0	254
Power, Bill														
1 pump SW $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ , Sec. 30, T. 16 S., R. 22 E., SEM														1,980
Power, R.E. (P. Power)														
1 pump SW $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ , Sec. 30, T. 16 S., R. 22 E., SEM														1,920
Hall, Ansil														
1 pump NW $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ , Sec. 36, T. 16 S., R. 21 E., SEM														480
Burrell														
1 well NW $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ , Sec. 33, T. 8 S., R. 24 W., G&SRM														192
Ranch 220 Trust 284														
1 well SE $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ , Sec. 19, T. 9 S., R. 24 W., G&SRM		0	58	60	67	169	114	123	167	164	105	88	96	1,211 <u>2/</u>
1 well NW $\frac{1}{4}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$ , Sec. 19, T. 9 S., R. 24 W., G&SRM		0	35	36	40	98	66	69	93	91	59	50	55	692 <u>2/</u>
1 well NE $\frac{1}{4}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$ , Sec. 19, T. 9 S., R. 24 W., G&SRM		0	29	30	33	82	54	59	86	85	55	46	50	609 <u>2/</u>
Consoul, Lee														
1 well NE $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ , Sec. 36, T. 9 S., R. 25 W., G&SRM														1,659
1 well NE $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ , Sec. 31, T. 9 S., R. 24 W., G&SRM		51	153	132	314	211	198	396	51	82	472	469	329	2,858 <u>2/</u>

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DIVERSIONS FROM MAINSTREAM - AVAILABLE RETURN FLOW

V (B)

AND CONSUMPTIVE USE OF SUCH WATER

CALENDAR YEAR 1978

STATE OF ARIZONA

(ACRE - FEET) Sheet 4 of 4

WATER USER		JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS <sup>1/</sup>
Sibley, Phil														
1 well														
NE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> , Sec. 2, T. 10 S., R. 25 W., G&SRM	Diversion	0	144	118	173	134	91	119	91	92	49	17	56	1,084 <sup>2</sup>
1 well														1,086
NE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> , Sec. 2, T. 10 S., R. 25 W., G&SRM	Diversion													
1 well														
NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> , Sec. 14, T. 10 S., R. 25 W., G&SRM	Diversion	0	91	0	0	32	55	46	55	15	0	0	0	294 <sup>2</sup>
Daniel, A.T. (Cummings)														
1 pump														
SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> , Sec. 23, T. 10 S., R. 25 W., G&SRM	Diversion													360
Cummings, C. & J.														
1 well														
NW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> , Sec. 26, T. 10 S., R. 25 W., G&SRM	Diversion													960
Barkley, J.														
1 well														
NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> , Sec. 35, T. 10 S., R. 25 W., G&SRM	Diversion													360
Moore, Marlin P.														
1 well														
NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> , Sec. 2, T. 11 S., R. 25 W., G&SRM	Diversion	0	192	15	48	78	40	82	69	56	89	32	28	729 <sup>2</sup>
Hughes, Earl														
1 well														
SW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> , Sec. 3, T. 11 S., R. 25 W., G&SRM	Diversion	0	72	22	49	222	223	150	182	222	210	43	44	1,439 <sup>2</sup>
Arizona Subtotals	Diversion <sup>3/</sup>	794	2,547	2,307	3,841	3,671	4,120	4,062	3,957	2,769	2,597	2,014	1,454	34,133
Imperial Dam to International Boundary	Diversion <sup>4/</sup>	379	1,217	1,102	1,835	1,754	1,968	1,941	1,890	1,323	1,241	962	695	16,307
Arizona Totals	Diversion	2,837	3,889	5,024	8,639	8,597	9,845	10,572	9,157	8,194	6,204	4,256	3,414	80,628

<sup>1/</sup> Calculated by assuming an annual diversion of 6 acre-feet per irrigated acre unless otherwise noted.

<sup>2/</sup> Calculated from monthly power records and power-discharge measurements where available, and where power-discharge measurements were not available calculated from power-discharge rate.

<sup>3/</sup> Total of items for which monthly distribution is shown.

<sup>4/</sup> Total of items for which monthly distribution is not shown. Distributed according to monthly distribution of other users in immediate area.

<sup>5/</sup> Contract farming for Arizona Department of Game & Fish.

DIVERSIONS FROM MAINSTREAM - AVAILABLE RETURN FLOW

V(B)

AND CONSUMPTIVE USE OF SUCH WATER

CALENDAR YEAR 1977

STATE OF ARIZONA

REVISION

(ACRE - 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	Diversion	6,748	47,249	58,212	57,230	58,930	76,702	83,704	74,465	53,781	32,280	25,064	20,800	595,165
Pumped from 2 wells at Parker	Diversion	2	3	4	5	5	6	7	7	6	3	4	2	54
SW $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$ , Sec. 2, T. 9 N., R. 21 W., G&SRM														
4 wells in Poston														
NW $\frac{1}{4}$ , Sec. 36, T. 8 N., R. 21 W., G&SRM	Diversion	3	4	4	5	6	7	8	8	7	6	4	3	65
3 pumps														
SW $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ , Sec. 14, T. 5 N., R. 22 W., G&SRM	Diversion	217	3,129	864	706	1,673	1,760	2,528	1,564	936	672	41	623	14,713
3 pumps														
NE $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ , Sec. 14, T. 4 N., R. 22 W., G&SRM	Diversion	250	388	689	684	824	541	536	431	634	674	682	449	6,782
1 well Hatch Center														
	Diversion	1	1	1	1	2	2	2	2	2	1	1	1	17
	Return	14,867	16,952	23,067	24,949	25,473	24,325	27,558	29,085	27,653	21,927	19,824	18,054	273,734
	Consumptive Use	-7,646	33,822	36,707	33,682	35,967	54,693	59,227	47,392	27,713	11,709	5,972	3,824	343,062

DIVERSIONS FROM MAINSTREAM - AVAILABLE RETURN FLOW

V(B)

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CALENDAR YEAR 1978

STATE OF CALIFORNIA

(ACRE - FEET) Sheet 1 of 2

WATER USER		JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Fort Mohave Indian Reservation Pumped from wells	Diversion Return Consumptive Use	211	180	1,050	1,374	1,069	1,302	2,514	2,205	1,322	664	554	161	12,606 1/
City of Needles 4 wells NW 1/4 SW 1/4, Sec. 29, T. 9 N., R. 23 E., SEM	Diversion Return Consumptive Use	163 36 127	70 32 38	106 0 106	176 39 137	242 61 181	362 80 282	409 92 317	379 89 290	371 86 285	213 46 167	155 40 115	122 34 88	2,768 635 2,133
San Bernardino County 1 well	Diversion Return Consumptive Use	1	1	1	1	1	2	2	2	1	1	1	1	15 1/
Metropolitan Water District of Southern California Diversion from Lake Havasu	Diversion Return Consumptive Use	71,435 354 71,081	44,390 393 43,997	64,680 343 64,337	63,462 322 63,140	42,444 311 42,133	62,690 296 62,394	61,898 300 61,598	66,411 313 66,098	63,428 302 63,126	63,514 325 63,189	52,021 340 51,681	57,443 358 57,085	713,816 3,957 709,859
Parker Dam and Government Camp Diversion at Parker Dam	Diversion Return Consumptive Use	12 1 11	14 1 13	18 2 16	21 2 19	22 3 19	29 3 26	32 3 29	30 3 27	25 3 22	21 2 19	15 1 14	12 1 11	251 25 226
Colorado River Indian Reservation 6/ Pumped from 11 pumps 1 well - Big River	Diversion Return Consumptive Use	6 1	183 1	1,899 1	576 1	1,697 1	2,584 1	2,166 1	1,720 2	320 1	276 1	327 1	60 1	11,814 13 1/
Palo Verde Irrigation District Diversion at Palo Verde Dam	Diversion Return Consumptive Use	20,398 30,344 -9,946	50,506 27,935 22,570	79,995 35,535 44,460	108,894 40,357 68,537	96,121 45,210 50,911	106,673 42,764 63,909	122,203 44,032 78,171	96,536 47,893 48,743	72,201 41,056 31,145	50,980 39,766 11,214	47,074 36,236 10,838	36,098 35,825 273	887,779 466,954 420,825
City of Blythe 10 wells in Secs. 29, 32, and 33 T. 65 S., R. 23 E., SEM	Diversion Return Consumptive Use	94	115	183	213	292	410	531	337	391	207	126	122	3,021 1/
East Blythe County Water District Pumped for domestic use from 23 wells 1 well NE 1/4 SW 1/4, others NE 1/4 SW 1/4 of Sec. 33, T. 6 S., R. 23 E., SEM	Diversion	23	19	24	42	41	58	72	58	54	49	29	26	495 1/

DIVERSIONS FROM MAINSTREAM - AVAILABLE RETURN FLOW

V(B)

AND CONSUMPTIVE USE OF SUCH WATER

CALENDAR YEAR 1978

STATE OF CALIFORNIA

(ACRE - FEET) Sheet 2 of 2

WATER USER		JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Yuma Project Reservation Division Indian Unit Diversion at Imperial Dam	Diversion Return Consumptive Use	343	2,075	4,754	3,374	3,186	6,757	6,070	3,445	2,098	1,334	2,031	634	36,103 <u>1/</u>
Yuma Project Reservation Division Bard Unit Diversion at Imperial Dam	Diversion Return Consumptive Use	510	2,981	4,291	3,568	5,093	7,174	7,463	4,703	3,177	2,149	1,643	1,333	44,185 <u>1/</u>
Returns from Yuma Project Reservation Division Drains	Returns <u>2/</u>	1,378	1,244	1,815	1,823	1,861	1,783	2,012	2,146	2,381	1,750	1,891	1,708	21,792
Imperial Irrigation District Diversion at Imperial Dam	Diversion Return Consumptive Use	57,304	160,689	256,714	340,039	306,762	277,222	320,646	312,052	271,207	194,484	148,586	111,494	2,757,199 <u>1/</u>
Coachella Valley County Water District Diversion at Imperial Dam	Diversion Return Consumptive Use	15,925	23,400	33,996	45,448	55,313	59,755	60,130	63,680	50,529	41,069	31,655	28,591	509,491 <u>1/</u>
City of Winterhaven 1 well SE 1/4, Sec. 27, T. 16 S., R. 22 E., SEM	Diversion Return Consumptive Use													110 <u>3/</u>
Other Users Pumping from Colorado River and wells in flood plain Davis Dam to International Boundary <u>4/</u>	Diversion Return Consumptive Use	459	646	811	2,986	1,681	2,753	2,575	2,119	2,160	502	259	86	17,037 <u>1/</u>
California Totals	Diversion Return Consumptive Use	166,885	285,270	446,523	570,275	513,967	527,772	586,712	553,779	467,285	355,464	284,477	236,184	4,996,703 <u>5/</u>
		32,113	29,606	37,695	42,543	47,446	44,926	46,439	50,444	43,828	41,889	38,508	37,926	493,363
		134,772	255,664	410,828	527,732	466,521	482,846	540,273	503,335	423,457	313,575	245,969	198,258	4,503,340 <u>5/</u>

NOTE: The term "Consumptive Use" in this tabulation means measured diversions including underground pumping, less measured return flow and less current estimated unmeasured return flow to 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 the All-American Canal.

3/ Monthly distribution not available.

4/ Details on California Supplemental Sheets 1-3.

5/ The total is 110 acre-feet greater than the sum of monthly totals because of nonavailable monthly distribution of diversion by City of Winterhaven.

6/ Calculated from monthly power records and power-discharge measurement where available, and where power-discharge measurements were not available calculated from average power-discharge rate.

7/ Estimate based on measured regulatory reservoirs seepage returns less an estimated amount of phreatophyte use.

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(ACRE FEET) Sheet 1 of 3

WATER USER		JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS <u>1/</u>
Soto Brothers 1 well NW <sup>1</sup> NE <sup>1</sup> Sec. 36, T. 11 N., R. 21 E., SEM	Diversion													834
Deason, Richard (Tri-State) 1 well NW <sup>1</sup> NE <sup>1</sup> Sec. 31, T. 11 N., R. 22 E., SEM	Diversion													1,200
1 well SE <sup>1</sup> NE <sup>1</sup> Sec. 36, T. 11 N., R. 21 E., SEM	Diversion													360
R. L. Lye 1 well SE <sup>1</sup> NE <sup>1</sup> Sec. 16, T. 1 S., R. 24 E., SEM	Diversion													66
BIM Permittees Pumped for domestic use	Diversion													146
Subtotals - Davis Dam to Imperial Dam	Diversion <u>4/</u>	70	99	124	457	257	421	394	324	330	77	40	13	2,606
Cole (R. Land) 1 well SW <sup>1</sup> SE <sup>1</sup> Sec. 35, T. 15 S., R. 23 E., SEM	Diversion													636
Gertz, (Cranford) 1 well SW <sup>1</sup> SE <sup>1</sup> Sec. 35., T. 15 S., R. 23 E., SEM	Diversion													6
Duke (Pete Power) 2 wells NE <sup>1</sup> NE <sup>1</sup> Sec. 15, T. 16 S., R. 23 E., SEM NW <sup>1</sup> SW <sup>1</sup> Sec. 14, T. 15 S., R. 23 E., SEM	Diversion													1,992
Perez F. (Slade) 1 well NE <sup>1</sup> SE <sup>1</sup> Sec. 6, T. 8 S., R. 22 W., G&SRM	Diversion	0	98	51	166	90	0	0	0	0	0	0	0	405 <u>2/</u>
Barrett (R. Harp) 1 well SE <sup>1</sup> SW <sup>1</sup> Sec. 6, T. 8 S., R. 22 W., G&SRM	Diversion													858
Spencer M. 1 well SW <sup>1</sup> NE <sup>1</sup> Sec. 9, T. 16 S., R. 23 E., SEM	Diversion	0	0	81	0	14	96	0	0	236	0	0	0	427 <u>2/</u>

DIVERSIONS FROM MAINSTREAM - AVAILABLE RETURN FLOW

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WATER USER		JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Coley M. 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., SBM	Diversion	0	0	0	276	96	204	181	125	0	0	0	0	882 <u>2/</u>
Martin M. (A. Dees) 1 pump NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> , Sec. 1, T. 8 S., R. 23 W., G&SRM	Diversion	11	0	0	11	0	0	0	0	0	23	0	0	45 <u>2/</u>
1 pump SE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> , Sec. 1, T. 8 S., R. 23 W., G&SRM	Diversion	64	38	23	120	72	71	68	75	49	0	0	0	580 <u>2/</u>
Easterday, Anne 1 well SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> , Sec. 1, T. 8 S., R. 23 W., G&SRM	Diversion	0	2	33	57	7	88	111	78	66	7	7	4	460 <u>2/</u>
Harp, Robert 1 well SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> , Sec. 2, T. 8 S., R. 23 W., G&SRM	Diversion	0	0	0	122	45	74	73	80	58	0	0	0	452 <u>2/</u>
1 well SW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> , Sec. 12, T. 8 S., R. 23 W., G&SRM	Diversion													882
1 well NE <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> , Sec. 12, T. 8 S., R. 23 W., G&SRM	Diversion	20	0	5	42	5	52	74	74	52	40	37	7	408 <u>2/</u>
1 well SE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> , Sec. 12, T. 8 S., R. 23 W., G&SRM	Diversion													106
Taylor Brothers 1 well NE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> , Sec. 2, T. 8 S., R. 23 W., G&SRM	Diversion	23	2	43	111	125	225	190	142	179	42	2	2	1,086 <u>2/</u>
Dees, John 1 well SE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> , Sec. 1, T. 8 S., R. 23 W., G&SRM	Diversion	67	4	60	181	183	321	177	224	239	171	78	11	1,716 <u>2/</u>
Easterday, Kenneth 1 well NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> , Sec. 12, T. 8 S., R. 23 W., G&SRM	Diversion	50	52	55	139	91	273	144	226	134	9	23	25	1,221 <u>2/</u>
Smith, F. (P. Power) 1 well NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> , Sec. 11, T. 8 S., R. 23 W., G&SRM	Diversion	14	47	69	176	112	102	204	181	126	0	0	0	1,031 <u>2/</u>
Musgrave (Barkley Co.) 1 well NE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> , Sec. 19, T. 16 S., R. 23 E., SBM	Diversion	0	0	0	0	0	0	34	21	22	1	4	0	82 <u>2/</u>
Hutchenson, John 1 pump SE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> , Sec. 27, T. 16 S., R. 22 E., SBM	Diversion	19	4	10	38	2	1	0	0	0	0	0	1	75 <u>2/</u>

DIVERSIONS FROM MAINSTREAM - AVAILABLE RETURN FLOW

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STATE OF CALIFORNIA

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WATER USER		JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Slade, William														
1 pump SW $\frac{1}{2}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$ , Sec. 29, T. 16 S., R. 22 E., SEM	Diversion	0	130	44	54	48	0	0	0	0	0	0	0	276
Hudson, C.A.														
1 pump NE $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$ , Sec. 29, T. 16 S., R. 22 E., SEM	Diversion	0	0	0	251	81	78	248	0	95	0	0	0	753
G & L Farms (Cloud)														
1 well NW $\frac{1}{4}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ , Sec. 29, T. 16 S., R. 22 E., SEM	Diversion	0	0	0	0	11	23	0	12	6	0	0	0	52
Subtotals - Imperial Dam to Boundary	Diversion $\frac{3}{4}$	268	377	474	1,744	982	1,608	1,504	1,238	1,262	293	151	50	9,951
	Diversion $\frac{4}{4}$	<u>121</u>	<u>170</u>	<u>213</u>	<u>785</u>	<u>442</u>	<u>724</u>	<u>677</u>	<u>557</u>	<u>568</u>	<u>132</u>	<u>68</u>	<u>23</u>	4,480
Total California	Diversion	<u>389</u> 459	<u>547</u> 646	<u>687</u> 811	<u>2,529</u> 2,986	<u>7424</u> 1,681	<u>2,332</u> 2,753	<u>2,181</u> 2,575	<u>1,795</u> 2,119	<u>1,830</u> 2,160	<u>475</u> 502	<u>219</u> 259	<u>73</u> 86	17,037

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$\frac{1}{4}$  Calculated by assuming an annual diversion of 6 acre-feet per irrigated acre unless otherwise noted.

$\frac{2}{4}$  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.

$\frac{3}{4}$  Total of items which monthly distribution is shown.

$\frac{4}{4}$  Total of items for which monthly distribution is not shown. Distributed according to monthly distribution of other users in immediate area.

DIVERSIONS FROM MAINSTREAM - AVAILABLE RETURN FLOW

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STATE OF NEVADA

(ACRE - FEET) Sheet 1 of 3

WATER USER		JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
<b>Boulder City</b>														
Diversion at Hoover Dam	Diversion	51	32	35	54	81	79	122	86	63	68	44	37	752
Diversion at Saddle Island, Lake Mead	Diversion 1/	64	101	118	202	287	472	436	453	369	302	157	113	3,074
	Return													2/
	Consumptive Use													
<b>Lake Mead Recreation Area</b>														
Diversion from Lake Mead	Diversion	36	37	48	48	70	93	116	120	89	86	54	36	833
Diversion at Saddle Island, Lake Mead	Diversion 3/	1	2	2	5	5	9	9	7	6	5	4	2	57
	Return													2/
	Consumptive Use													
<b>Basic Management Inc.</b>														
Diversion at Saddle Island, Lake Mead	Diversion	572	488	511	529	536	763	886	907	727	572	594	579	7,664
	Return													2/
	Consumptive Use													
<b>City of Henderson</b>														
Diversion at Saddle Island, Lake Mead	Diversion 1/	7	8	13	17	263	417	530	435	309	217	85	17	2,318
Diversion at Saddle Island, Lake Mead	Diversion 3/	277	268	331	533	527	607	670	641	560	476	411	346	5,647
	Return													2/
	Consumptive Use													
<b>Las Vegas Valley Water District</b>														
Diversion at Saddle Island, Lake Mead	Diversion 1/	2,846	2,940	3,750	4,765	6,432	7,885	8,268	8,082	7,224	7,017	5,227	3,388	67,824
	Return													2/
	Consumptive Use													
<b>Nevada State Department of Fish and Game</b>														
Diversion at Saddle Island, Lake Mead	Diversion 3/	369	331	365	357	352	324	344	368	371	367	357	379	4,284
	Return	369	330	364	357	352	324	343	367	370	367	356	379	4,278
	Consumptive Use	0	1	1	0	0	0	1	1	1	0	1	0	6
<b>Pacific Coast Building Products, Inc.</b>														
Diversion at Gypsum Wash	Diversion	44	45	39	44	43	45	38	45	45	40	43	28	499
	Return													2/
	Consumptive Use													
<b>City of North Las Vegas</b>														
Diversion at Saddle Island, Lake Mead	Diversion 1/	152	171	266	422	870	897	834	877	695	599	262	104	6,149
	Return													2/
	Consumptive Use													



DIVERSIONS FROM MAINSTREAM - AVAILABLE RETURN FLOW

V(B)

AND CONSUMPTIVE USE OF SUCH WATER

CALENDAR YEAR 1978

STATE OF NEVADA

(ACRE - FEET) Sheet 2 of 3

WATER USER		JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Nellis Air Force Base Diversion at Saddle Island, Lake Mead	Diversion <u>1/</u> Return Consumptive Use	105	110	156	231	255	299	351	328	254	228	139	93	2,549 <u>2/</u>
Ramelli, William O. Lot No. 3, Sec. 13, T. 32 S., R. 66 E., MDB&M	Diversion Return Consumptive Use													3 <u>1/2/</u>
Southern California Edison Company Diversion at Pumping Plant in Sec. 24, T. 32 S., R. 66 E., MDB&M	Diversion Return Consumptive Use	575	658	600	559	694	860	1,024	910	909	984	661	619	9,053 <u>2/</u>
Wiebke, Armin T. Lot No. 1, Sec. 33, T. 32 S., R. 66 E., MDB&M (except W. 500' & E. 630')	Diversion Return Consumptive Use													5 <u>1/2/</u>
Portenier, Warren E. E <sub>2</sub> , Lot No. 2, Sec. 33, T. 32 S., R. 66 E., MDB&M	Diversion Return Consumptive Use													42 <u>1/2/</u>
Welles, John C. 1 pump E <sub>2</sub> , Lot No. 2, Sec. 33, T. 32 S., R. 66 E., MDB&M	Diversion Return Consumptive Use													8 <u>1/2/</u>
Cavanaugh, Milton E. 1 pump W <sub>2</sub> Lot 2, Sec. 33, T. 32 S., R. 66 E., MDB&M	Diversion Return Consumptive Use													8 <u>1/2/</u>
LAS VEGAS WASH RETURN FLOWS	Returns	3,802	3,169	3,534	2,708	2,628	2,160	2,138	2,314	2,690	3,249	3,198	3,608	35,198 <u>6/</u>
Nevada Totals	Diversion Return Consumptive Use	5,099 4,171 928	5,191 3,499 1,692	6,234 3,898 2,336	7,766 3,065 4,701	10,415 2,980 7,435	12,750 2,484 10,266	13,628 2,481 11,147	13,259 2,681 10,578	11,621 3,060 8,561	10,961 3,616 7,345	8,038 3,554 4,484	5,741 3,987 1,754	110,769 39,476 71,293 <u>5/</u>

DIVERSIONS FROM MAINSTREAM - AVAILABLE RETURN FLOW

V(B)

AND CONSUMPTIVE USE OF SUCH WATER

CALENDAR YEAR 1978

STATE OF NEVADA

(ACRE - FEET) Sheet 3 of 3

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

NOTE: The term "Consumptive Use" in this tabulation means measured diversion including underground pumping less measured return flow and less estimated unmeasured return flow to the river.

- 1/ Delivered through the facilities of the Southern Nevada Water Project.
- 2/ No surface return.
- 3/ Delivered through the facilities of Basic Management Inc.
- 4/ Reports annually.
- 5/ The monthly totals do not add to the annual total because of the nonavailability of monthly values of items footnoted 4/.
- 6/ Estimate based on the percentage of Colorado River water used in Las Vegas Valley.

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 1978

The following tabulations for calendar year 1978 show records of releases of mainstream water pursuant to orders therefore but not diverted by the party ordering the same, and the quantity of such water delivered to Mexico in satisfaction of the Mexican Treaty or diverted by others in satisfaction of decreed rights. Also shown are quantities of such rejected water delivered to Mexico in excess of Treaty requirements and quantities delivered to storage. The quantities delivered to storage were available to release for future use.

Water ordered but not diverted was analyzed daily for each diverter as the positive difference between the finally approved daily order and the mean daily delivery requested on the day the diversion was made. The monthly quantities shown on the tabulations are the sum of the daily positive quantities. Final approval of daily orders was given in advance of the delivery date by the amount of traveltime involved in conveying the water from the storage point to the diversion point on the mainstream. To the extent possible "water ordered but not diverted" was delivered to others in satisfaction of their rights. The quantities of such deliveries are shown on the tabulation.

Deliveries of water to Mexico in satisfaction of the Mexican Treaty were scheduled based on Mexico's daily orders. Releases from storage were scheduled in sufficient quantities which, when added to return

flows, would meet Mexico's daily orders. Deliveries of water to Mexico in satisfaction of the Treaty, therefore, were considered to have been made entirely from releases from storage and from return flows scheduled for that purpose and not from water ordered but not diverted by other Colorado River water users. Therefore, the tabulations show no "water ordered but not diverted" as being delivered to Mexico in satisfaction of the Treaty.

To date, no orders are received for diversions from the Colorado River in Nevada so no sheet is included in Nevada. The storage capacity of Lake Mead is so large in relation to the present daily diversions from the reservoir by Nevada that any "water ordered but not diverted" would be retained for future use and would have no significant effect on scheduling of daily operations of the reservoir.

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 1978  
 STATE OF ARIZONA

(VIC)

(ACRE - FEET) Sheet 1 of 3

WATER USER		JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Colorado River Indian Reservation Diversion at Headgate Rock Dam	Ordered but not Diverted	1,513	1,126	2,319	647	1,365	1,002	2,680	1,357	1,230	1,621	1,615	1,089	17,564
	Delivered to Mexico in Satisfaction of Treaty	0	0	0	0	0	0	0	0	0	0	0	0	0
	Diverted By Others	81	345	934	353	619	298	220	286	240	470	296	4	4,146
	Delivered to Storage <sup>2/</sup>	1,432	706	1,020	294	740	704	2,460	1,071	990	1,119	1,319	1,085	12,946
	Delivered to Mexico in Excess of Treaty	0	75	365	0	0	0	0	0	0	32	0	0	472
Yuma Proving Ground U.S. Army Diversion at Imperial Dam <sup>1/</sup>	Ordered but not Diverted	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
	Diverted by Others	0	0	0	0	0	0	0	0	0	0	0	0	0
	Delivered to Storage <sup>2/</sup>	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
North Gila Valley Irrigation District Diversion at Imperial Dam	Ordered but not Diverted	966	619	1,202	367	922	952	391	678	702	855	696	649	8,999
	Delivered to Mexico in Satisfaction of Treaty	0	0	0	0	0	0	0	0	0	0	0	0	0
	Diverted by Others	101	234	430	194	395	508	298	450	625	69	303	36	3,643
	Delivered to Storage <sup>2/</sup>	865	385	530	173	527	444	93	228	77	655	393	532	4,902
	Delivered to Mexico in Excess of Treaty	0	0	242	0	0	0	0	0	0	131	0	81	454
Warren Act Contractors Gila Project Districts Diversion at Imperial Dam <sup>1/</sup>	Ordered but not Diverted	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
	Diverted by Others	0	0	0	0	0	0	0	0	0	0	0	0	0
	Delivered to Storage <sup>2/</sup>	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
Wellton-Mohawk I. & D.D. Diversion at Imperial Dam	Ordered but not Diverted	6,196	2,731	5,778	1,367	2,428	1,359	1,813	1,256	1,081	9,739	4,679	8,638	47,065
	Delivered to Mexico in Satisfaction of Treaty	0	0	0	0	0	0	0	0	0	0	0	0	0
	Diverted by Others	200	268	581	422	752	254	464	129	351	1,152	895	476	5,944
	Delivered to Storage <sup>2/</sup>	5,996	2,463	3,618	945	1,676	1,105	1,349	1,127	730	7,022	3,784	7,444	37,259
	Delivered to Mexico in Excess of Treaty	0	0	1,579	0	0	0	0	0	0	1,565	0	718	3,862

RELEASES OF MAINSTREAM WATER PURSUANT TO ORDERS

(C)

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 1978

STATE OF ARIZONA

(ACRE - FEET) Sheet 2 of 3

WATER USER		JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Yuma Irrigation District Diversion at Imperial Dam	Ordered but not Diverted	807	1,190	1,075	639	411	585	353	514	317	922	361	887	8,061
	Delivered to Mexico in Satisfaction of Treaty	0	0	0	0	0	0	0	0	0	0	0	0	0
	Diverted by Others	155	460	369	262	117	194	266	397	192	89	190	60	2,751
	Delivered to Storage <u>2/</u>	652	730	418	377	294	391	87	117	125	668	171	700	4,730
	Delivered to Mexico in Excess of Treaty	0	0	288	0	0	0	0	0	0	165	0	127	580
Yuma Mesa I. & D.D. Diversion at Imperial Dam	Ordered but not Diverted	1,787	1,942	2,323	1,619	1,075	1,008	1,039	1,198	1,648	3,136	1,053	5,712	23,540
	Delivered to Mexico in Satisfaction of Treaty	0	0	0	0	0	0	0	0	0	0	0	0	0
	Diverted by Others	153	373	540	522	371	282	803	805	1,275	188	270	361	5,943
	Delivered to Storage <u>2/</u>	1,634	1,569	1,226	1,097	704	726	236	393	373	2,042	783	4,740	15,523
	Delivered to Mexico in Excess of Treaty	0	0	557	0	0	0	0	0	0	906	0	611	2,074
Unit B I. & D.D. Diversion at Imperial Dam	Ordered but not Diverted	149	216	214	272	248	180	214	147	454	401	85	696	3,276
	Delivered to Mexico in Satisfaction of Treaty	0	0	0	0	0	0	0	0	0	0	0	0	0
	Diverted by Others	14	42	8	38	69	81	159	24	190	26	10	18	679
	Delivered to Storage <u>2/</u>	135	174	188	234	179	99	55	123	264	274	75	529	2,329
	Delivered to Mexico in Excess of Treaty	0	0	18	0	0	0	0	0	0	101	0	149	268
City of Yuma Diversion at Imperial Dam	Ordered but not Diverted	135	10	0	0	0	0	0	0	0	47	84	0	276
	Delivered to Mexico in Satisfaction of Treaty	0	0	0	0	0	0	0	0	0	0	0	0	0
	Diverted by Others	15	2	0	0	0	0	0	0	0	20	57	0	94
	Delivered to Storage <u>2/</u>	120	8	0	0	0	0	0	0	0	21	27	0	176
	Delivered to Mexico in Excess of Treaty	0	0	0	0	0	0	0	0	0	6	0	0	6
Yuma County Water Users' Association Diversion at Imperial Dam	Ordered but not Diverted	1,829	1,630	3,536	3,657	3,415	3,079	2,008	5,266	706	2,297	3,262	2,464	33,149
	Delivered to Mexico in Satisfaction of Treaty	0	0	0	0	0	0	0	0	0	0	0	0	0
	Diverted by Others	207	408	996	2,144	2,651	2,430	753	2,220	265	980	2,208	1,283	16,545
	Delivered to Storage <u>2/</u>	1,622	1,222	1,630	1,513	764	649	1,255	3,046	441	1,002	1,054	903	15,301
	Delivered to Mexico in Excess of Treaty	0	0	910	0	0	0	0	0	0	315	0	278	1,503

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

(V(C))

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

CALENDAR YEAR 1978

STATE OF ARIZONA

(ACRE - FEET) Sheet 3 of 3

WATER USER		JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Cocopah Indian Reservation Diversion at Imperial Dam	Ordered but not Diverted	0	0	0	17	4	13	9	22	2	0	0	0	67
	Delivered to Mexico in Satisfaction of Treaty	0	0	0	0	0	0	0	0	0	0	0	0	0
	Diverted by Others	0	0	0	10	3	10	3	9	1	0	0	0	36
	Delivered to Storage <u>2/</u>	0	0	0	7	1	3	6	13	1	0	0	0	31
	Delivered to Mexico in Excess of Treaty	0	0	0	0	0	0	0	0	0	0	0	0	0
Arizona Totals	Ordered but not Diverted	13,382	9,464	16,447	8,585	9,868	8,178	8,507	10,438	6,140	19,018	11,835	20,135	141,997
	Delivered to Mexico in Satisfaction of Treaty	0	0	0	0	0	0	0	0	0	0	0	0	0
	Diverted by Others	926	2,132	3,858	3,945	4,977	4,057	2,966	4,320	3,139	2,994	4,229	2,238	39,781
	Delivered to Storage <u>2/</u>	12,456	7,257	8,630	4,640	4,891	4,121	5,541	6,118	3,001	12,803	7,606	15,933	92,997
	Delivered to Mexico in Excess of Treaty	0	75	3,959	0	0	0	0	0	0	3,221	0	1,964	9,219

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



RELEASES OF MAINSTREAM WATER PURSUANT TO ORDERS

V(C)

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 1978  
STATE OF CALIFORNIA

(ACRE - FEET) Sheet 1 of 2

WATER USER		JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Metropolitan Water District Diversion at Lake Havasu	Ordered but not Diverted	22,343	0	5,818	894	1,425	2,484	5,453	1,244	4,452	963	611	3,149	48,836
	Delivered to Mexico in Satisfaction of Treaty	0	0	0	0	0	0	0	0	0	0	0	0	0
	Diverted by Others	0	0	0	0	0	0	0	0	0	0	0	0	0
	Delivered to Storage <u>1/</u>	22,343	0	5,818	894	1,425	2,484	5,453	1,244	4,452	963	611	3,149	48,836
	Delivered to Mexico in Excess of Treaty	0	0	0	0	0	0	0	0	0	0	0	0	0
Palo Verde Irrigation District Diversion at Palo Verde Dam	Ordered but not Diverted	2,172	1,621	2,870	2,792	5,219	1,706	2,352	3,868	2,343	3,664	6,070	5,036	39,713
	Delivered to Mexico in Satisfaction of Treaty	0	0	0	0	0	0	0	0	0	0	0	0	0
	Diverted by Others	12	153	561	805	877	373	266	450	480	708	534	934	6,133
	Delivered to Storage <u>1/</u>	2,160	1,244	1,795	1,987	4,362	1,333	2,086	3,418	1,863	2,397	5,536	3,406	31,587
	Delivered to Mexico in Excess of Treaty	0	224	514	0	0	0	0	0	0	559	0	696	1,993
Yuma Project Reservation Division Bard Unit Diversion at Imperial Dam	Ordered but not Diverted	1,113	331	450	666	439	162	692	970	441	704	524	1,466	7,958
	Delivered to Mexico in Satisfaction of Treaty	0	0	0	0	0	0	0	0	0	0	0	0	0
	Diverted by Others	470	302	290	383	341	118	388	529	235	298	272	883	4,509
	Delivered to Storage <u>1/</u>	643	29	91	283	98	44	304	441	206	292	252	455	3,138
	Delivered to Mexico in Excess of Treaty	0	0	69	0	0	0	0	0	0	114	0	128	311
Yuma Project Reservation Division Indian Unit Diversion at Imperial Dam	Ordered but not Diverted	954	248	498	653	289	157	562	692	331	490	706	704	6,284
	Delivered to Mexico in Satisfaction of Treaty	0	0	0	0	0	0	0	0	0	0	0	0	0
	Diverted by Others	403	227	321	375	224	114	314	377	176	208	367	424	3,530
	Delivered to Storage <u>1/</u>	551	21	101	278	65	43	248	315	155	202	339	218	2,536
	Delivered to Mexico in Excess of Treaty	0	0	76	0	0	0	0	0	0	80	0	62	218
Imperial Irrigation District Diversion at Imperial Dam	Ordered but not Diverted	3,400	4,205	11,141	0	1,823	0	0	0	0	11,183	10,538	8,694	50,984
	Delivered to Mexico in Satisfaction of Treaty	0	0	0	0	0	0	0	0	0	0	0	0	0
	Diverted by Others	0	494	280	0	601	0	0	0	0	36	415	200	2,026
	Delivered to Storage <u>1/</u>	3,400	3,711	6,745	0	1,222	0	0	0	0	8,352	10,123	7,074	40,627
	Delivered to Mexico in Excess of Treaty	0	0	4,116	0	0	0	0	0	0	2,795	0	1,420	8,331

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

(C)

AND

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

CALENDAR YEAR 1978

STATE OF CALIFORNIA

(ACRE - FEET) Sheet 2 of 2

WATER USER		JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Coachella Valley County Water District Diversion at Imperial Dam	Ordered but not Diverted	972	694	4,443	833	0	0	833	0	2,083	2,301	1,111	555	13,825
	Delivered to Mexico in Satisfaction of Treaty	0	0	0	0	0	0	0	0	0	0	0	0	0
	Diverted by Others	236	226	1,813	278	0	0	0	0	998	89	555	91	4,286
	Delivered to Storage <u>1/</u>	736	468	1,902	555	0	0	833	0	1,085	1,633	556	323	8,091
	Delivered to Mexico in Excess of Treaty	0	0	728	0	0	0	0	0	0	579	0	141	1,448
California Totals	Ordered but not Diverted	30,954	7,099	25,220	5,838	9,195	4,509	9,892	6,774	9,650	19,305	19,560	19,604	167,600
	Delivered to Mexico in Satisfaction of Treaty	0	0	0	0	0	0	0	0	0	0	0	0	0
	Diverted by Others	1,121	1,402	3,265	1,841	2,023	605	968	1,356	1,889	1,339	2,143	2,532	20,484
	Delivered to Storage <u>1/</u>	29,833	5,473	16,452	3,997	7,172	3,904	8,924	5,418	7,761	13,839	17,417	14,625	134,815
	Delivered to Mexico in Excess of Treaty	0	224	5,503	0	0	0	0	0	0	4,127	0	2,447	12,301

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 1978

DELIVERIES TO MEXICO IN SATISFACTION OF PART III OF 1944 TREATY  
 AND  
 WATER PASSING TO MEXICO IN EXCESS OF TREATY REQUIREMENTS  
 CALENDAR YEAR 1978

V(D)

(ACRE - FEET)

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Deliveries to Mexico in Satisfaction of Treaty	76,639	111,067	180,788	226,999	94,853	115,931	183,220	176,734	91,610	57,560	56,750	125,849	1,500,000
Passing to Mexico in Excess of Treaty requirements	42,160	15,401	26,114	16,878	16,184	15,294	14,220	14,960	13,555	22,248	14,233	15,786	227,033 <sup>1/</sup>

<sup>1/</sup> Includes 182,036 acre-feet delivered pursuant to Minute 242.

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 1978

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 1978

(E)

(ACRE - FEET)

WATER USER		JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Gila River	Diversion													0
	Consumptive Use													0
San Francisco River	Diversion													0
	Consumptive Use													0