

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

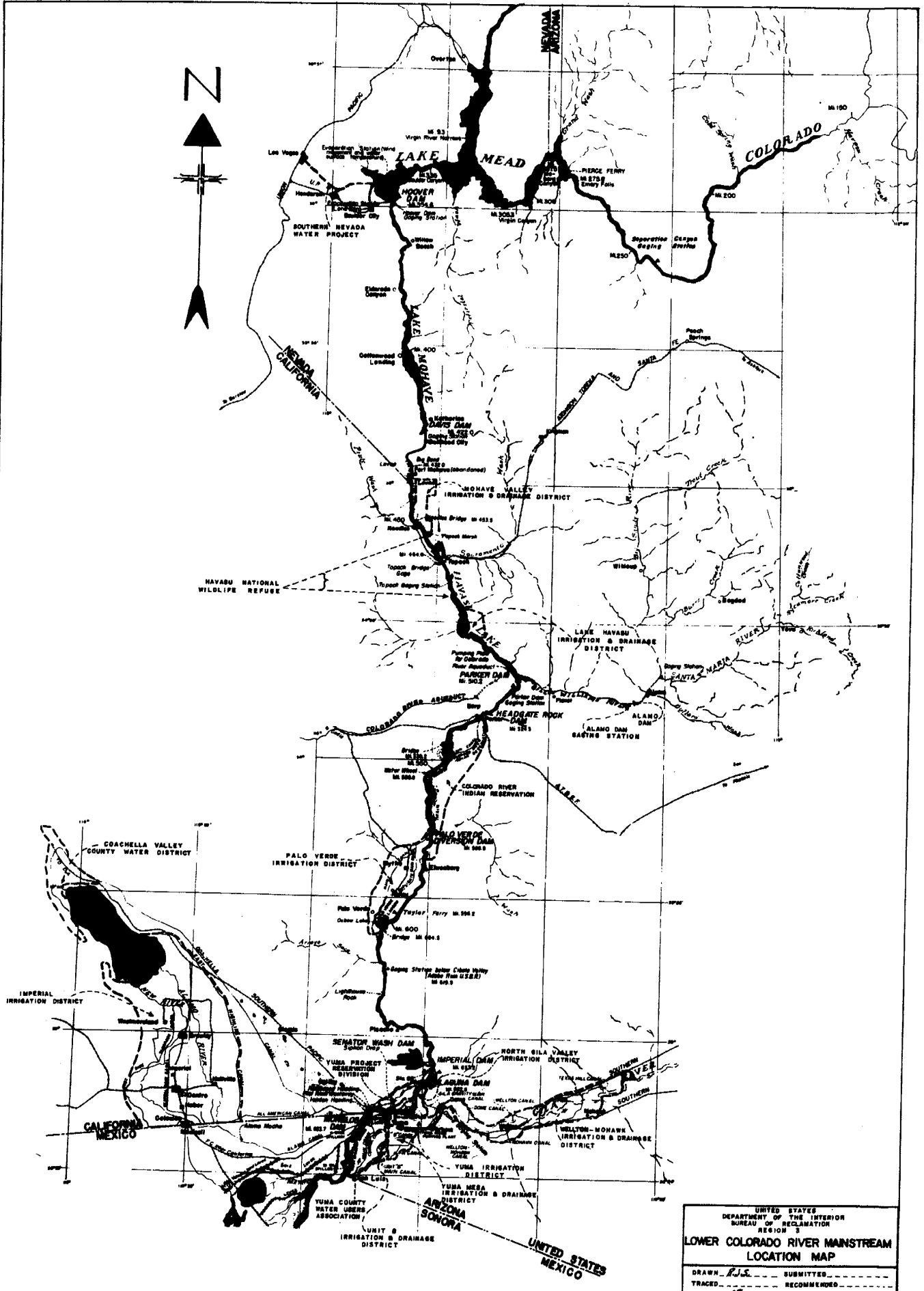
COMPILATION OF RECORDS IN  
ACCORDANCE WITH ARTICLE V OF THE  
DECREE OF THE SUPREME COURT OF  
THE UNITED STATES IN  
ARIZONA v. CALIFORNIA DATED MARCH 9, 1964  
CALENDAR YEAR 1978

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 2  
**LOWER COLORADO RIVER MAINSTREAM  
 LOCATION MAP**  
 DRAWN *R.S.* SUBMITTER  
 TRACED \_\_\_\_\_ RECOMMENDED

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 "Diversions 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	CALENDAR YEAR 1978												TOTALS
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
Hoover Dam	234,900	429,200	740,400	901,700	879,900	694,000	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	687,000	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	6,689,000
Headgate Rock Dam 1/	130,200	305,200	647,100	778,400	614,600	683,300	819,800	704,900	515,300	333,100	292,600	294,700	6,119,200
Palo Verde Dam 2/	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 3/	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	76,980	23,510	37,690	20,590	46,160	21,120	23,880	21,890	49,890	32,470	25,890	28,340	407,800

1/ Colorado River below Parker Dam less diversions at Headgate Rock Dam.  
 2/ Measured through river gates at Palo Verde Dam.  
 3/ Includes diversion to Hittory 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.

DIVERIONS FROM MAINSTREAM - AVAILABLE RETURN FLOW  
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		
	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		31	
Lake Mead National Recreation Area Diversions from Lake Mohave	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	239	
Diversions																											
Return																											
Consumptive Use																											
Davis Dam and Government Camp Diversions at Davis Dam	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	284	
Diversions																											
Return																											
Consumptive Use																											
Mohave Valley Irrigation and Drainage District pumped from wells and Diket channel to Havasu National Wildlife Refuge	188	287	790	2,112	2,145	2,858	3,547	3,451	1,931	698	491	177	19,075														
Diversions																											
Return																											
Consumptive Use																											
Port 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	298	20,108														
Diversions																											
Return																											
Consumptive Use																											
Havasu National Wildlife Refuge District, Sec. 33, T. 9 N., R. 23 E., SEM	38	0	6,077	1,207	3,954	6,237	3,488	6,735	4,048	1,845	1,221	1,531	36,321														
Diversions																											
Return																											
Consumptive Use																											
Lake Mohave Irrigation and Drainage District pumped from wells	384	332	449	575	716	874	922	1,079	797	743	522	438	7,771														
Diversions																											
Return																											
Consumptive Use																											
Graham Water Utilities Inc. Pumped from river and wells	6	5	8	7	10	11	12	11	11	106	8	8	106														
Diversions																											
Return																											
Consumptive Use																											
Holiday Harbor Utilities Inc. Pumped from wells	0	0	1	1	1	1	1	1	2	1	1	1	11														
Diversions																											
Return																											
Consumptive Use																											
Tom of Parker 1 well - unproduced, Sec. 7, T. 9 N., R. 19 W., GASH	38	34	50	63	84	103	114	112	94	75	49	41	877														
Diversions																											
Return																											
Consumptive Use																											



V(B)

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

CALENDAR YEAR 1978  
STATE OF ARIZONA

WATER USER	(ACRE - FEET) Sheet 3 of 4												
	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	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	12,378	17,298	16,930	16,686	15,898	14,208	14,850	13,613	15,152	14,347	13,133	185,027 3/4
Consumptive Use	-10,563	8,273	20,956	29,691	32,215	45,458	47,105	39,225	30,463	12,407	5,980	3,139	264,269 1/2
<b>Yuma Irrigation District</b>													
Diversion at Imperial Dam	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	337	455	478	1,079	792	1,098	1,157	1,056	779	526	410	420	8,507 1/2
Consumptive Use													
<b>Yuma Mesa I. &amp; D.D.</b>													
Diversion at Imperial Dam	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 3/4
Return													
Consumptive Use													
<b>Unit B I. &amp; D.D.</b>													
Diversion at Imperial Dam	187	1,805	2,144	3,093	4,310	4,985	5,163	5,397	3,540	2,922	1,790	1,563	36,799 6/8
Return													
Consumptive Use													
<b>Return from South Gila Valley</b>													
City of Yuma	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 1/2
Diversion at Imperial Dam	629	599	832	1,118	1,397	1,460	1,869	1,727	1,586	1,104	986	847	14,244
Return	420	351	413	432	447	384	392	395	475	302	485	495	5,188
Consumptive Use	209	248	419	686	950	1,076	1,480	1,332	1,111	692	501	352	9,096
<b>Yuma County Water Users Association</b>													
Diversion at Imperial Dam	4,285	20,831	23,930	25,729	29,451	36,920	40,897	27,050	25,969	19,253	13,232	10,671	278,938 1/2
Pump from wells	734	850	697	683	779	620	605	737	862	866	758	765	8,776
Return	5,888	5,913	7,205	7,032	7,007	6,746	7,048	7,231	7,680	7,346	6,712	6,395	81,303
Consumptive Use	-839	15,568	17,422	19,380	23,223	30,794	34,454	20,596	19,751	13,693	7,298	5,111	206,411
<b>Cocopah Indian Reservation</b>													
Diversion at Imperial Dam	0	0	0	159	48	209	188	111	91	0	0	0	806
Pump from wells	0	0	88	121	67	136	190	249	75	0	0	0	968
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	31,598 8/8

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

CALENDAR YEAR 1978

STATE OF ARIZONA

WATER USER	CALENDAR YEAR 1978												TOTALS	
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER		
Arizona Department of Game & Fish Wildlife Enhancement under Title 1 Mitigation 1 well SMB-304W, Sec. 35, T. 10 S., R. 25 W., Return GASFM	0	0	0	0	8,639	8,597	9,845	10,572	9,157	8,194	6,204	4,256	3,414	80,628
Other users pumping from Colorado River and wells in flood plain Davis Dam to International Boundary	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	1/
Arizona Totals	27,802	83,272	148,260	192,697	205,038	248,034	265,073	243,043	185,768	115,024	77,956	67,868	1,859,835	
	41,495	40,119	48,919	59,346	59,888	58,158	60,662	61,749	55,183	53,421	43,287	42,705	624,893	
	-13,653	43,153	99,341	133,351	145,150	189,876	204,411	181,294	130,585	61,603	34,669	25,162	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 Melton-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	Arter 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.  
 B Main Canal 786  
 B-8 Lateral 92  
 Yuma Main Canal 938  
 Yuma Main Canal 96  
 7/ Includes deliveries to the following water users who have contracts with the United States.  
 Yuma Union High School District  
 City of Yuma - Saucker Park  
 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 other users in immediate area.

V(B)

DIVERSIONS FROM MAINSTREAM - AVAILABLE RETURN FLOW  
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 1/
Ralph Clayton 2 pumps SW <sup>1/4</sup> Sec. 34, T. 4 N., R. 22 W., GASRM	10	26	87	68	20	25	99	85	69	35	1	33	598 2/
1 pump SW <sup>1/4</sup> Sec. 34, T. 4 N., R. 22 W., GASRM	0	0	0	0	0	11	11	0	0	55	0	0	77 2/
Arbuckle Farms 2 pumps SW <sup>1/4</sup> Sec. 16, T. 3 N., R. 22 W., GASRM													2,400 2/
1 pump SW <sup>1/4</sup> Sec. 16, T. 3 N., R. 22 W., GASRM													
Sprall (A. Towery) 1 pump SW <sup>1/4</sup> Sec. 21, T. 1 N., R. 23 W., GASRM													3,572
Cibola Valley Irrigation and Drainage District 3 pumps SW <sup>1/4</sup> Sec. 20, T. 1 N., R. 23 W., GASRM	1,113	58	1,003	1,932	2,121	2,500	2,974	2,149	2,700	1,507	863	821	19,741 2/
Swan, Ben 1 pump SW <sup>1/4</sup> Sec. 2, T. 15 N., R. 24 W., GASRM													240
1 pump SW <sup>1/4</sup> Sec. 31, T. 1 S., R. 23 W., GASRM													1,200
Mariner, Sam 2 pumps SW <sup>1/4</sup> Sec. 1, T. 2 S., R. 24 W., GASRM													2,534 2/
MEM Permitttees Davis Dam to Imperial Dam													66
Subtotal-Davis Dam to Imperial Dam	1,123	84	1,090	2,000	2,141	2,536	3,084	2,234	2,769	1,597	864	864	20,376
Pratt, Loren 1 well SW <sup>1/4</sup> Sec. 14, T. 7 S., R. 22 W., GASRM	541	41	525	963	1,031	1,221	1,405	1,076	1,333	769	436	411	9,612
1 pump SW <sup>1/4</sup> Sec. 14, T. 7 S., R. 22 W., GASRM													228
Dolan, Arlin 2 wells SW <sup>1/4</sup> Sec. 8, T. 8 S., R. 22 W., GASRM													222
Dolan, Arlin 2 wells SW <sup>1/4</sup> Sec. 8, T. 8 S., R. 22 W., GASRM	0	179	41	153	119	955	371	536	226	2	0	3	2,185 2/

V(8)

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

CALENDAR YEAR 1976  
STATE OF ARIZONA

(ACRE FEET) Sheet 2 of 4

WATER USER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS 2/
Sturges, Steve 9 wells Sec. 16, T. 8 S., R. 21 W., and Sec.'s 13 & 14, T. 8 S., R. 22 W., GASHIM	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/
Yowelmas, R. 1 well Sagehen, Sec. 17, T. 8 S., R. 22 W., GASHIM													720
Anza, Pete 1 well Sagehen, Sec. 16, T. 8 S., R. 22 W., GASHIM	43	36	66	84	159	183	0	323	205	146	69	6	1,321 2/
1 pump Sagehen, Sec. 24, T. 8 S., R. 22 W., GASHIM													1,990
1 well Sagehen, Sec. 16, T. 8 S., R. 22 W., GASHIM													1,990
Ott, Judd T. 1 well Sagehen, Sec. 30, T. 8 S., R. 22 W., GASHIM	8	26	40	85	95	132	97	53	83	94	28	28	729 2/
1 well Sagehen, Sec. 19, T. 8 S., R. 22 W., GASHIM	40	40	32	41	46	67	73	56	52	37	29	45	558 2/
Cameron Bros. 1 well Sagehen, Sec. 24, T. 8 S., R. 22 W., GASHIM	18	33	70	164	244	266	199	435	180	143	72	0	1,824 2/
Harp, Robert 1 well Sagehen, Sec. 13, T. 8 S., R. 23 W., GASHIM													1,458
Vukosovich 1 well Sagehen, Sec. 24, T. 8 S., R. 23 W., GASHIM	6	26	25	56	54	84	36	99	26	42	42	22	518 2/
Stanford, Robert L. 1 well Sagehen, Sec. 22, T. 8 S., R. 23 W., GASHIM													480
Sunkist of Yuma 1 well Sagehen, Sec. 23, T. 8 S., R. 23 W., GASHIM													63





V (8)

DIVERSIONS FROM MAINSTREAM - AVAILABLE RETURN FLOW

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	0	144	118	173	134	91	119	91	92	49	17	56	1,004 <sup>2/</sup>
Imperial Dam, Sec. 2, T. 10 S., R. 25 W., GADSDEN													
1 well													1,086
Imperial Dam, Sec. 2, T. 10 S., R. 25 W., GADSDEN													
1 well	0	91	0	0	32	55	46	55	15	0	0	0	294 <sup>2/</sup>
Imperial Dam, Sec. 14, T. 10 S., R. 25 W., GADSDEN													
Daniel, A.T. (Cumings)													360
1 pump													
Imperial Dam, Sec. 23, T. 10 S., R. 25 W., GADSDEN													
Cummings, C. & J.													960
1 well													
Imperial Dam, Sec. 26, T. 10 S., R. 25 W., GADSDEN													
Bartley, J.													360
1 well													
Imperial Dam, Sec. 35, T. 10 S., R. 25 W., GADSDEN													
Moore, Marlin F.													759 <sup>2/</sup>
1 well	0	192	15	48	78	40	82	69	56	89	32	28	
Imperial Dam, Sec. 2, T. 11 S., R. 25 W., GADSDEN													
Hughes, Earl													1,499 <sup>2/</sup>
1 well	0	72	22	49	222	223	150	182	222	210	43	44	
Imperial Dam, Sec. 3, T. 11 S., R. 25 W., GADSDEN													
Arizona Subtotals	794	2,547	2,307	3,841	3,671	4,120	4,062	3,977	2,769	2,597	2,014	1,454	34,133
Imperial Dam to Interseasonal Boundary	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	2,837	3,889	5,024	8,639	8,597	9,845	10,372	9,157	8,194	6,204	4,256	3,144	80,688

<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.

V(3)

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

CALENDAR YEAR 1977  
STATE OF ARIZONA

WATER USER	(ACRE - FEET)												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Colorado River Indian Reservation													
Diversion at Hoadgate Rock Dam	6,748	47,249	58,212	57,230	58,930	76,702	83,704	74,465	53,781	38,280	25,064	20,800	595,165
Passed from 2 wells at Farber	2	3	4	5	5	6	7	7	6	3	4	2	54
Engelhardt, Sec. 2, T. 9 N., R. 21 W., GADSDEN													
4 wells in Poston	3	4	4	5	6	7	8	8	7	6	4	3	65
Wells, Sec. 36, T. 6 N., R. 21 W., GADSDEN													
3 pumps	217	3,129	864	706	1,673	1,760	2,288	1,264	936	672	41	623	14,713
Engelhardt, Sec. 14, T. 5 N., R. 22 W., GADSDEN													
3 pumps	250	388	689	684	824	541	536	431	634	674	682	449	6,782
Engelhardt, Sec. 14, T. 4 N., R. 22 W., GADSDEN													
1 well Hatch Center	14,867	16,992	23,067	24,949	25,473	24,325	27,558	29,085	27,653	21,927	19,884	18,054	273,734
	-7,646	33,822	36,707	33,682	35,587	54,693	59,227	47,392	27,713	11,709	5,972	3,884	343,062
Consumptive Use													

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

CALENDAR YEAR 1978  
STATE OF CALIFORNIA

WATER USER	(ACRE FEET) Sheet 1 of 2												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Fort Mohave Indian Reservation Pumped from wells	211	180	1,050	1,374	1,069	1,302	2,514	2,205	1,322	664	554	161	12,606 <sup>1/2</sup>
City of Needles 4 wells Wright, Sec. 29, T. 9 N., R. 23 E., SEM	163	70	106	176	242	362	409	379	371	213	155	122	2,768
San Bernardino County 1 well	127	32	0	39	61	80	92	89	86	46	40	34	635
Metropolitan Water District of Southern California Diversion from Lake Havasu	71,835	44,390	64,680	63,462	42,444	62,690	61,898	66,411	63,828	63,514	52,021	57,443	713,816
Parker Dam and Government Camp Diversion at Parker Dam	354	393	343	322	311	296	300	313	302	325	340	358	3,527 <sup>1/2</sup>
Colorado River Indian Reservation <sup>5/</sup> Pumped from 11 pumps 1 well - Big River	71,081	43,997	64,337	63,140	42,133	62,394	61,598	66,098	63,126	63,189	51,681	57,085	709,899
Palo Verde Irrigation District Diversion at Palo Verde Dam	12	14	18	21	22	29	32	30	25	21	15	12	271
City of Rhythe 10 wells in Secs. 29, 32, and 33 T. 6 S., R. 23 E., SEM	1	1	2	2	3	3	3	3	3	2	1	1	25
East Rhythe County Water District Pumped for domestic use from 23 wells 1 well near Rhythe, others throughout of Sec. 33, T. 6 S., R. 23 E., SEM	11	13	16	19	19	26	29	27	22	19	14	11	226
	6	183	1,899	576	1,597	2,584	2,166	1,720	320	276	327	60	11,814 <sup>1/2</sup>
	1	1	1	1	1	1	1	2	1	1	1	1	13 <sup>1/2</sup>
	20,398	50,506	79,995	108,894	96,121	106,673	122,203	96,536	72,201	50,980	47,074	36,098	887,779
	30,344	27,996	35,535	40,357	45,210	42,764	44,032	47,893	41,056	39,766	36,236	35,895	466,954
	-9,946	22,570	44,460	68,537	90,911	63,909	78,171	48,743	31,145	11,214	10,838	273	420,825
	94	115	183	213	292	410	531	337	391	207	126	122	3,021 <sup>1/2</sup>
	23	19	24	42	41	58	72	58	54	49	29	26	495 <sup>1/2</sup>

DIVERSIONS FROM MAINSTREAM - AVAILABLE RETURN FLOW  
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
<b>YUMA PROJECT RESERVATION DIVISION</b>													
Indian Unit													
Diversion at Imperial Dam	343	2,075	4,754	3,374	3,188	6,757	6,070	3,445	2,098	1,334	2,031	634	36,103 1/2
Diversion Return													
Consumptive Use													
Yuma Project Reservation Division													
Bard Unit													
Diversion at Imperial Dam	510	2,981	4,291	3,668	5,093	7,174	7,463	4,703	3,177	2,149	1,643	1,333	44,285 1/2
Diversion Return													
Consumptive Use													
Returns from Yuma Project													
Reservation Division Drains	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	57,304	160,689	256,714	340,039	306,762	277,222	320,646	312,092	274,207	194,484	148,986	111,494	2,757,199 1/2
Diversion Return													
Consumptive Use													
Coachella Valley County Water District													
Diversion at Imperial Dam	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 1/2
Diversion Return													
Consumptive Use													
City of Winterhaven													
1 well													
SEASIDE, Sec. 27, T. 16 S., R. 22 E., S8M													110 3/4
Diversion Return													
Consumptive Use													
Other Users Pumping from Colorado River													
and wells in flood plain													
Davis Dam to International Boundary 1/2	459	646	811	2,986	1,681	2,753	2,575	2,119	2,160	502	259	86	17,037 1/2
Diversion Return													
Consumptive Use													
California Totals	166,885	285,270	446,523	570,275	513,967	527,772	586,712	523,779	467,285	355,464	284,477	236,184	4,956,703 1/2
Diversion Return	32,113	29,606	37,695	42,943	47,446	44,926	46,439	50,444	43,828	41,889	38,508	37,926	493,363
Consumptive Use	134,772	255,664	410,828	527,332	466,521	482,846	540,273	503,335	423,457	313,575	245,969	198,258	4,503,340 1/2

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.

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

CALENDAR YEAR 1978  
STATE OF CALIFORNIA

V(B)

WATER USER	(ACRE - FEET) Sheet 1 of 3												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS 1/
Soto Brothers 1 well N42W1/4, Sec. 36, T. 11 N., R. 21 E., S1/4M													834
Deason, Richard (Tri-State) 1 well N42W1/4, Sec. 31, T. 11 N., R. 22 E., S1/4M													1,200
1 well S42W1/4, Sec. 36, T. 11 N., R. 21 E., S1/4M													360
R. L. Ivey 1 well S42W1/4, Sec. 15, T. 16 S., R. 24 E., S1/4M													66
SEM Permittees Pumped for domestic use													146
Subtotals - Davis Dam to Imperial Dam	70	99	124	457	257	421	394	324	330	77	40	13	2,606
Cole (R. Land) 1 well S42W1/4, Sec. 35, T. 15 S., R. 23 E., S1/4M													636
Gertz, (Cranford) 1 well S42W1/4, Sec. 35, T. 15 S., R. 23 E., S1/4M													6
Duke (Pete Power) 2 wells N42W1/4, Sec. 15, T. 16 S., R. 23 E., S1/4M													1,992
1 well N42W1/4, Sec. 14, T. 15 S., R. 23 E., S1/4M													
Perez F. (Slade) 1 well N42W1/4, Sec. 6, T. 6 S., R. 22 W., G4S1/4M	0	98	51	166	90	0	0	0	0	0	0	0	405 2/
Barrett (R. Hart) 1 well S42W1/4, Sec. 6, T. 8 S., R. 22 W., G4S1/4M													858
Spencer M. 1 well S42W1/4, Sec. 9, T. 16 S., R. 23 E., S1/4M	0	0	81	0	34	96	0	0	236	0	0	0	427 2/

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

CALENDAR YEAR 1978  
 STATE OF CALIFORNIA

(ACRE FEET) Sheet 2 of 3

WATER USER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS 1/
Colley M. 1 well S14E34SW1/4, Sec. 18, T. 16 S., R. 23 E., S1M	0	0	0	276	96	204	182	125	0	0	0	0	882 2/
Martin M. (A. Dees) 1 pump NE1/4SW1/4, Sec. 1, T. 8 S., R. 23 W., GASRM	11	0	0	11	0	0	0	0	0	23	0	0	45 2/
1 pump SE1/4SW1/4, Sec. 1, T. 8 S., R. 23 W., GASRM	64	36	23	120	72	71	68	75	49	0	0	0	580 2/
Easterday, Anne 1 well S14E34SW1/4, Sec. 1, T. 8 S., R. 23 W., GASRM	0	2	33	57	7	88	111	78	66	7	7	4	460 2/
Harp, Robert 1 well S14E34SW1/4, Sec. 2, T. 8 S., R. 23 W., GASRM	0	0	0	122	45	74	73	80	58	0	0	0	452 2/
1 well S14E34SW1/4, Sec. 12, T. 8 S., R. 23 W., GASRM	20	0	5	42	5	52	74	74	52	40	37	7	408 2/
1 well S14E34SW1/4, Sec. 12, T. 8 S., R. 23 W., GASRM	0	0	0	0	0	0	0	0	0	0	0	0	0
1 well S14E34SW1/4, Sec. 12, T. 8 S., R. 23 W., GASRM	23	2	43	111	125	225	190	142	179	42	2	2	1,086 2/
Taylor Brothers 1 well NE1/4SW1/4, Sec. 2, T. 8 S., R. 23 W., GASRM	67	4	60	181	183	321	177	224	239	171	78	11	1,716 2/
Dees, John 1 well S14E34SW1/4, Sec. 1, T. 8 S., R. 23 W., GASRM	50	52	55	139	91	273	144	226	134	9	23	25	1,221 2/
Easterday, Kenneth 1 well NE1/4SW1/4, Sec. 12, T. 8 S., R. 23 W., GASRM	14	47	69	176	112	102	204	181	126	0	0	0	1,031 2/
Smith, F. (P. Power) 1 well NE1/4SW1/4, Sec. 11, T. 8 S., R. 23 W., GASRM	0	0	0	0	0	0	34	21	22	1	4	0	82 2/
Maugrave (Bardley Co.) 1 well NE1/4SW1/4, Sec. 19, T. 16 S., R. 23 E., S1M	19	4	10	38	2	1	0	0	0	0	0	1	75 2/
Hatchemason, John 1 pump S14E34SW1/4, Sec. 27, T. 16 S., R. 22 E., S1M													

V(B)  
DIVERSIONS FROM MAINSTREAM - AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER

CALENDAR YEAR 1976

STATE OF CALIFORNIA

(ACRE - FEET) Sheet 3 of 3

WATER USER	(ACRE - FEET)												TOTALS
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
Slade, William 1 pump SHAWNEE, Sec. 29, T. 16 S., R. 22 E., SEM	0	130	44	54	48	0	0	0	0	0	0	0	276 2/
Hudson, C.A. 1 pump NEHAPS, Sec. 29, T. 16 S., R. 22 E., SEM	0	0	0	251	81	78	248	0	95	0	0	0	753 2/
G & L Farms (Clowd) 1 well NEHAPS, Sec. 29, T. 16 S., R. 22 E., SEM	0	0	0	0	11	23	0	12	6	0	0	0	52 2/
Subtotals - Imperial Dam to Boundary	268	377	474	1,714	982	1,608	1,504	1,238	1,962	293	151	50	9,921
Total California	124	170	213	785	442	784	677	557	568	132	68	23	4,480
	159	547	697	2,524	1,424	2,332	2,187	1,795	2,530	425	219	73	17,037

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

V (B)

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

CALENDAR YEAR 1976  
STATE OF NEVADA

(ACRE - FEET) Sheet 1 of 3

WATER USER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Boulder City Diversion at Hoover Dam Diversion at Saddle Island, Lake Mead	51 64	32 101	35 118	54 202	81 287	79 472	122 436	86 453	63 369	68 302	44 157	37 113	752 3,074 2/
Lake Mead Recreation Area Diversion from Lake Mead Diversion at Saddle Island, Lake Mead	36 1	37 2	48 2	48 5	70 5	93 9	116 9	120 7	89 6	86 5	54 4	36 2	833 57 2/
Basic Management Inc. Diversion at Saddle Island, Lake Mead	572	488	511	529	536	763	886	907	727	572	594	579	7,664 2/
City of Henderson Diversion at Saddle Island, Lake Mead Diversion at Saddle Island, Lake Mead	7 277	8 268	13 331	17 533	263 527	417 607	530 670	435 641	309 560	217 476	85 411	17 346	2,318 5,647 2/
Las Vegas Valley Water District Diversion at Saddle Island, Lake Mead	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 2/
Nevada State Department of Fish and Game Diversion at Saddle Island, Lake Mead	369 369 0	331 330 1	365 364 1	377 377 0	392 392 0	324 324 0	344 343 1	368 367 1	371 370 1	367 367 0	357 356 1	379 379 0	4,284 4,278 6
Pacific Coast Building Products, Inc. Diversion at Oryson Wash	44	45	39	44	43	45	38	45	45	40	43	28	499 2/
City of North Las Vegas Diversion at Saddle Island, Lake Mead	152	171	266	422	870	897	834	877	695	599	262	104	6,149 2/



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

CALENDAR YEAR 1978  
STATE OF NEVADA

(ACRE FEET) Sheet 2 of 3

WATER USER	ACRE FEET												TOTALS	
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER		
Bellis Air Force Base Diversion at Saddle Island, Lake Mead	105	110	156	231	255	299	351	328	294	228	139	93	2,549	2/
Russell, William O. Lot No. 3, Sec. 13, T. 32 S., R. 66 E., MDMAM														3 4/2/
Southern California Edison Company Diversion at Pumping Plant in Sec. 24, T. 32 S., R. 66 E., MDMAM	575	658	600	559	694	860	1,024	910	909	984	661	619	9,093	2/
Wibbe, Armin T. Lot No. 1, Sec. 33, T. 32 S., R. 66 E., MDMAM (except N. 500' & E. 630')														5 4/2/
Portenier, Warren E. S $\frac{1}{2}$ Lot No. 2, Sec. 33, T. 32 S., R. 66 E., MDMAM														4 4/2/
Welles, John C. 1 pump S $\frac{1}{2}$ Lot No. 2, Sec. 33, T. 32 S., R. 66 E., MDMAM														8 4/2/
Cavanaugh, Milton E. 1 pump W $\frac{1}{2}$ Lot 2, Sec. 33, T. 32 S., R. 66 E., MDMAM														8 4/2/
LAS VEGAS WASH RETURN FLOWS	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	6/
Nevada Totals	5,099 4,171 968	5,191 3,499 1,692	6,234 3,098 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 3,907 1,754	110,769	5/
														1,754
														71,293

V(B)

DIVERSIONS FROM MAINSTREAM - AVAILABLE RETURN FLOW  
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 b/.
- 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  
VIC)

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 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 Back Dam	1,513	1,126	2,319	647	1,365	1,002	2,680	1,337	1,230	1,621	1,615	1,089	17,564
Ordered but not Diverted Delivered to Mexico in Satisfaction of Treaty	0	0	0	0	0	0	0	0	0	0	0	0	0
Diverted by Others	81	345	934	353	619	208	220	266	240	470	296	4	4,146
Delivered to Storage 2/ Delivered to Mexico in Excess of Treaty	1,432	705	1,080	294	740	704	2,460	1,071	990	1,151	1,319	1,085	12,946
Yuma Proving Ground U.S. Army Diversion at Imperial Dam 1/	0	75	365	0	0	0	0	0	0	32	0	0	472
Ordered but not Diverted Delivered to Mexico in Satisfaction of Treaty	0	0	0	0	0	0	0	0	0	0	0	0	0
Diverted by Others	0	0	0	0	0	0	0	0	0	0	0	0	0
Delivered to Storage 2/ Delivered to Mexico in Excess of Treaty	0	0	0	0	0	0	0	0	0	0	0	0	0
North Gila Valley Irrigation District Diversion at Imperial Dam	966	619	1,202	367	922	932	391	678	702	875	696	649	8,999
Ordered but not Diverted Delivered to Mexico in Satisfaction of Treaty	0	0	0	0	0	0	0	0	0	0	0	0	0
Diverted by Others	101	234	430	194	395	508	298	450	625	69	303	36	3,643
Delivered to Storage 2/ Delivered to Mexico in Excess of Treaty	865	385	530	173	527	424	93	228	77	695	393	932	4,908
Warren Act Contractors Gila Project Districts Diversion at Imperial Dam 1/	0	0	242	0	0	0	0	0	0	131	0	81	434
Ordered but not Diverted Delivered to Mexico in Satisfaction of Treaty	0	0	0	0	0	0	0	0	0	0	0	0	0
Diverted by Others	0	0	0	0	0	0	0	0	0	0	0	0	0
Delivered to Storage 2/ Delivered to Mexico in Excess of Treaty	0	0	0	0	0	0	0	0	0	0	0	0	0
Wellton-Mohawk I. & D.D. Diversion at Imperial Dam	6,196	2,731	5,778	1,367	2,428	1,359	1,813	1,236	1,021	9,739	4,679	8,638	47,065
Ordered but not Diverted Delivered to Mexico in Satisfaction of Treaty	0	0	0	0	0	0	0	0	0	0	0	0	0
Diverted by Others	200	268	581	422	732	294	464	129	351	1,182	895	476	5,944
Delivered to Storage 2/ Delivered to Mexico in Excess of Treaty	5,996	2,463	3,638	945	1,676	1,105	1,349	1,127	730	7,022	3,704	7,444	37,899
Ordered but not Diverted Delivered to Mexico in Satisfaction of Treaty	0	0	1,579	0	0	0	0	0	0	1,265	0	718	3,862

(VIC)

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 1976

STATE OF ARIZONA

(ACRE - FEET) Sheet 2 of 3

WATER USER	(ACRE - FEET)												TOTALS
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
Yuma Irrigation District Diversion at Imperial Dam	807	1,190	1,075	639	411	585	353	514	317	922	361	887	8,061
	0	0	0	0	0	0	0	0	0	0	0	0	0
Ordered but not Diverted	155	460	369	262	117	194	266	397	192	89	190	60	2,751
Delivered to Mexico in	652	730	418	377	294	391	87	117	125	668	171	700	4,730
Satisfaction of Treaty	0	0	288	0	0	0	0	0	0	165	0	127	580
Excess of Treaty	1,787	1,942	2,323	1,619	1,075	1,008	1,039	1,198	1,648	3,136	1,053	5,712	23,740
Yuma Mesa I. & D.D. Diversion at Imperial Dam	0	0	0	0	0	0	0	0	0	0	0	0	0
Ordered but not Diverted	153	373	540	522	371	282	803	805	1,275	188	270	361	5,943
Delivered to Mexico in	1,634	1,969	1,226	1,097	704	726	236	393	373	2,042	783	4,740	15,323
Satisfaction of Treaty	0	0	557	0	0	0	0	0	0	906	0	611	2,074
Excess of Treaty	149	216	214	272	248	180	214	147	434	401	85	696	3,276
Urbt B I. & D.D. Diversion at Imperial Dam	0	0	0	0	0	0	0	0	0	0	0	0	0
Ordered but not Diverted	14	42	8	38	69	81	199	24	190	26	10	18	679
Delivered to Mexico in	135	174	188	234	179	99	55	123	284	274	75	389	2,369
Satisfaction of Treaty	0	0	18	0	0	0	0	0	0	101	0	149	268
Excess of Treaty	135	10	0	0	0	0	0	0	0	47	84	0	276
City of Yuma Diversion at Imperial Dam	0	0	0	0	0	0	0	0	0	0	0	0	0
Ordered but not Diverted	15	2	0	0	0	0	0	0	0	20	57	0	94
Delivered to Mexico in	120	8	0	0	0	0	0	0	0	21	27	0	176
Satisfaction of Treaty	0	0	0	0	0	0	0	0	0	6	0	0	6
Excess of Treaty	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
Yuma County Water Users' Association Diversion at Imperial Dam	0	0	0	0	0	0	0	0	0	0	0	0	0
Ordered but not Diverted	207	408	996	2,144	2,651	2,430	753	2,220	965	980	2,208	1,283	16,945
Delivered to Mexico in	1,622	1,222	1,630	1,513	764	649	1,255	3,046	441	1,002	1,054	903	15,101
Satisfaction of Treaty	0	0	910	0	0	0	0	0	0	315	0	278	1,503
Excess of Treaty	0	0	0	0	0	0	0	0	0	0	0	0	0

VIC)

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 1976  
STATE OF ARIZONA

(ACME - FEET) Sheet 3 of 3

WATER USER	(ACME - FEET) Sheet 3 of 3												TOTALS		
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER			
Cocoyah Indian Reservation Diversion at Imperial Dam	0	0	0	0	17	4	13	9	22	2	0	0	0	0	67
Ordered but not Diverted															
Delivered to Mexico in	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Satisfaction of Treaty	0	0	0	0	10	3	10	3	9	1	0	0	0	0	36
Diverted by Others	0	0	0	0	7	1	3	6	13	1	0	0	0	0	31
Delivered to Storage <sup>2/</sup>															
Delivered to Mexico in	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Excess of Treaty															
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	0	0
Diverted by Others	926	2,132	3,858	3,945	4,977	4,057	2,965	4,320	3,139	2,994	4,229	2,238	39,781		
Delivered to Storage <sup>2/</sup>	12,456	7,257	8,630	4,640	4,891	4,121	5,541	6,118	3,001	12,803	7,606	15,933	92,597		
Delivered to Mexico in															
Excess of Treaty	0	0	75	3,979	0	0	0	0	0	3,221	0	1,964	9,219		
Arizona Totals															

<sup>1/</sup> No orders received.  
<sup>2/</sup> Available for future use.



(VC)

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 1976  
STATE OF CALIFORNIA

Sheet 1 of 2  
(ACRE - FEET)

WATER USER	TOTALS												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
Metropolitan Water District Diversion at Lake Havasu	22,343	0	5,818	894	1,423	2,404	5,453	1,244	4,492	963	611	3,149	48,896
Ordered but not Diverted													
Delivered to Mexico in	0	0	0	0	0	0	0	0	0	0	0	0	0
Satisfaction of Treaty	0	0	0	0	0	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 1/	22,343	0	5,818	894	1,423	2,404	5,453	1,244	4,492	963	611	3,149	48,896
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	2,172	1,621	2,870	2,792	5,219	1,706	2,352	3,868	2,343	3,664	6,070	5,086	39,713
Ordered but not Diverted													
Delivered to Mexico in	0	0	0	0	0	0	0	0	0	0	0	0	0
Satisfaction of Treaty	12	153	561	805	877	373	266	450	480	708	574	924	6,133
Diverted by Others	2,160	1,468	1,795	1,987	4,342	1,333	2,086	3,418	1,863	2,957	5,536	3,166	31,587
Delivered to Storage 1/													
Delivered to Mexico in	0	224	514	0	0	0	0	0	0	599	0	696	1,993
Excess of Treaty	1,113	331	450	666	439	162	692	970	441	704	294	1,466	7,958
Yum Project Reservation Division Bard Unit Diversion at Imperial Dam	470	302	290	383	341	118	388	289	225	298	272	883	4,509
Ordered but not Diverted													
Delivered to Mexico in	0	0	0	0	0	0	0	0	0	0	0	0	0
Satisfaction of Treaty	643	29	91	283	98	44	304	441	208	292	292	475	3,138
Diverted by Others	0	0	0	0	0	0	0	0	0	0	0	0	0
Delivered to Storage 1/													
Delivered to Mexico in	0	0	69	0	0	0	0	0	0	114	0	128	311
Excess of Treaty	994	248	498	653	289	157	562	692	331	490	706	704	6,884
Yum Project Reservation Division Indian Unit Diversion at Imperial Dam	403	227	321	375	224	114	314	377	176	208	367	424	3,530
Ordered but not Diverted													
Delivered to Mexico in	551	21	101	278	65	43	248	315	155	202	339	218	2,536
Satisfaction of Treaty	0	0	76	0	0	0	0	0	0	80	0	62	218
Diverted by Others	3,400	4,205	11,141	0	1,823	0	0	0	0	11,183	10,538	8,694	50,984
Delivered to Storage 1/													
Delivered to Mexico in	0	0	0	0	0	0	0	0	0	0	0	0	0
Satisfaction of Treaty	0	494	280	0	601	0	0	0	0	36	415	200	2,086
Diverted by Others	3,400	3,711	6,745	0	1,222	0	0	0	0	8,352	10,123	7,074	40,687
Delivered to Storage 1/													
Delivered to Mexico in	0	0	4,116	0	0	0	0	0	0	2,795	0	1,420	8,331
Excess of Treaty													

(ACFE - FEET) Sheet 2 of 2

(VIC)

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 CALIFORNIA

WATER USER	(ACFE - FEET)												TOTALS
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
Conchella Valley County Water District Diversion at Imperial Dam	972	694	4,443	833	0	0	833	0	2,083	2,301	1,111	555	13,825
Ordered but not Diverted Delivered to Mexico in Satisfaction of Treaty	0	0	0	0	0	0	0	0	0	0	0	0	0
Diverted by Others	236	226	1,813	276	0	0	0	0	958	89	555	91	4,266
Delivered to Storage $\frac{1}{2}$	736	468	1,902	555	0	0	833	0	1,089	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	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
Ordered but not Diverted Delivered to Mexico in Satisfaction of Treaty	0	0	0	0	0	0	0	0	0	0	0	0	0
Diverted by Others	1,121	1,402	3,265	1,841	2,023	605	968	1,356	1,889	1,339	2,143	2,532	20,494
Delivered to Storage $\frac{1}{2}$	29,833	5,697	16,952	3,997	7,172	3,904	8,924	5,418	7,761	13,969	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

$\frac{1}{2}$  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

V(D)  
 DELIVERIES TO MEXICO IN SATISFACTION OF PART III OF 1944 TREATY  
 AND  
 WATER PASSING TO MEXICO IN EXCESS OF TREATY REQUIREMENTS

CALENDAR YEAR 1978

(ACRE - FEET)

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Deliveries to Mexico in Satisfaction of Treaty	76,639	111,057	180,788	286,999	94,893	115,951	183,220	176,734	91,610	57,560	56,790	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 1/2

1/2 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

(VIE)

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

(ACRE - FEET)

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

WATER USER

Gila River

San Francisco River

Diversion  
Consumptive Use

Diversion  
Consumptive Use

0  
0  
0  
0