

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

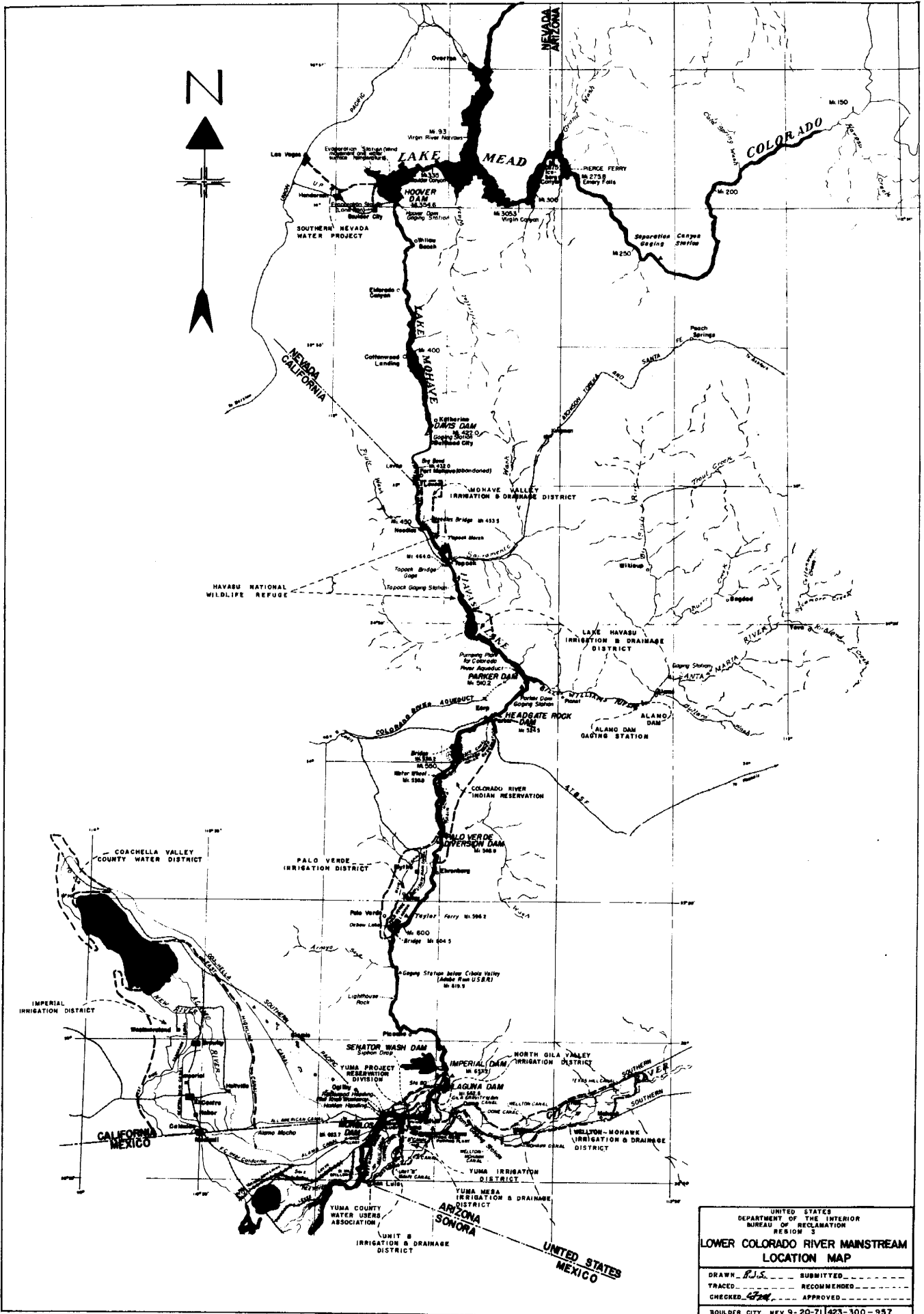
COMPILATION OF RECORDS IN  
ACCORDANCE WITH ARTICLE V OF THE  
DECREE OF THE SUPREME COURT OF  
THE UNITED STATES IN  
ARIZONA v. CALIFORNIA DATED MARCH 9, 1964  
CALENDAR YEAR 1979

Division of Water and Land Operations  
Boulder City, Nevada

December 1, 1980

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UNITED STATES  
 DEPARTMENT OF THE INTERIOR  
 BUREAU OF RECLAMATION  
 REGION 2

**LOWER COLORADO RIVER MAINSTREAM  
 LOCATION MAP**

DRAWN *P.J.S.* SUBMITTED \_\_\_\_\_  
 TRACED \_\_\_\_\_ RECOMMENDED \_\_\_\_\_  
 CHECKED *W.M.* APPROVED \_\_\_\_\_

BOULDER CITY, NEV. 9-20-71 423-300-997

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 1979

The following tabulations for calendar year 1979 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

(A)

CALENDAR YEAR 1979

(ACRE - FEET)

WATER USER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Hoover Dam	217,700	291,400	618,000	703,300	1,010,000	865,300	657,700	875,900	702,900	530,300	542,900	505,300	7,721,000
Davis Dam	178,100	380,300	623,100	875,400	916,400	918,400	1,041,000	922,700	796,800	573,400	420,000	394,600	8,040,000
Parker Dam	151,800	336,800	575,800	776,100	782,900	849,700	960,600	829,800	709,400	505,200	367,900	346,700	7,195,000
Headgate Rock Dam <sup>1/</sup>	147,500	306,600	524,800	715,800	719,600	772,900	873,200	754,200	653,800	474,600	346,700	324,300	6,614,000
Palo Verde Dam <sup>2/</sup>	135,100	247,500	411,000	546,300	572,500	617,700	709,100	630,700	544,400	425,700	305,600	277,100	5,423,000
Imperial Dam <sup>3/</sup>	28,020	10,510	19,500	23,530	24,270	22,060	22,470	28,360	27,770	24,820	20,330	20,750	272,400
Laguna Dam	26,610	10,530	20,450	25,990	22,950	20,650	24,290	29,340	27,320	24,340	21,800	21,970	278,200

<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 diversion to Mitty 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 1979

The following tabulations for calendar year 1979 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 1979 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 and orthophotomaps 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.

(VIB)

DIVERSIONS FROM MAINSTREAM — AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1979

STATE OF ARIZONA

(ACRE- FEET) Sheet 1 of 4

WATER USER	1979												TOTALS	
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER		
Lake Mead National Recreation Area Diversion from Lake Mohave	7	8	9	19	27	34	34	33	25	17	15	10	238	✓
Davis Dam and Government Camp Diversion at Davis Dam	6	7	7	16	22	28	28	27	21	14	12	8	196	✓
Mohave Valley Irrigation and Drainage District pumped from wells and inlet channel to Havasu National Wildlife Refuge	501	913	1,267	3,356	2,840	2,982	3,033	2,972	1,561	1,134	827	1,375	22,761	✓
Fort Mohave Indian Reservation Pumped from 9 pumps and wells in the flood plain	522	738	1,101	2,426	1,573	1,812	1,816	2,248	1,855	973	730	422	16,216	✓
Havasu National Wildlife Refuge Inlet - NW 1/4 NW 1/4, Sec. 33 T. 9 N., R. 23 E., 58W	158	2,099	4,752	4,392	2,799	5,286	5,999	3,680	3,242	5,212	2,640	1,561	41,820	
	0	0	0	0	0	0	0	0	0	0	7,081	0	7,081	
	158	2,099	4,752	4,392	2,799	5,286	5,999	3,680	3,242	5,212	44,441	1,561	34,739	
Lake Havasu Irrigation and Drainage District pumped from wells	405	401	476	787	847	968	1,029	970	920	870	535	476	8,684	✓
Graham Water Utilities Inc. Pumped from wells	7	6	7	9	11	11	12	11	11	9	8	7	108	✓
Holiday Harbor Utilities Inc. Pumped from wells	1	1	1	1	2	2	2	2	2	2	1	1	18	✓
Town of Parker 1 well - NW 1/4 NW 1/4, Sec. 7, T. 9 N., R. 19 W., G&SRW	44	47	58	76	90	120	141	117	101	84	61	51	990	✓



DIVERSIONS FROM MAINSTREAM — AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1979  
STATE OF ARIZONA

V(B)

(ACRE - FEET) Sheet 3 of 4

WATER USER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Wellton-Mohawk Irrigation and Drainage District													
Diversion at Imperial Dam	3,879	16,255	21,064	30,374	33,707	41,359	41,190	34,057	35,890	20,757	15,393	13,633	304,568
Return	12,524	12,153	14,964	14,652	16,534	15,237	15,085	15,055	14,363	15,723	15,933	17,157	179,380 3/
Consumptive Use	-8,645	4,102	6,100	15,722	17,173	26,122	26,105	19,002	18,527	5,044	-540	-3,524	125,188
Yuma Irrigation District													
Diversion at Imperial Dam	1,319	5,137	3,936	5,811	6,823	6,633	6,722	6,384	4,576	4,740	4,251	3,123	59,455
Pumped from Private wells	621	579	635	991	1,019	1,327	1,241	1,324	1,131	840	614	726	11,048 1/
Consumptive Use													
Yuma Mesa I. & D. D.													
Diversion at Imperial Dam	6,954	10,520	12,871	19,675	26,951	29,433	29,456	24,529	23,699	17,032	13,756	9,426	224,302 5/
Return													
Consumptive Use													
Unit "B" I. & D. D.													
Diversion at Imperial Dam	660	1,735	1,904	3,142	4,348	4,552	4,596	4,619	3,512	3,352	2,505	1,719	36,644 6/
Return													
Consumptive Use													
Return from South Gila Valley	2,463	1,264	4,127	5,464	5,984	5,297	6,099	5,638	5,385	4,918	4,273	4,006	54,918
City of Yuma													
Diversion at Imperial Dam	737	778	944	1,171	1,318	1,609	1,526	1,250	1,389	1,172	952	926	13,772
Return	544	387	562	466	478	487	476	518	463	464	452	493	5,790
Consumptive Use	193	391	382	705	840	1,122	1,050	732	926	708	500	433	7,982
Returns													
Yuma County Meter Users Association													
Diversion at Imperial Dam	8,443	17,306	27,007	30,820	29,794	34,429	36,360	26,316	22,608	21,006	13,488	12,865	280,412 7/
Pumped from wells	836	675	758	682	757	764	886	681	752	766	597	661	8,615
Return	5,811	5,803	7,071	7,156	7,338	7,648	8,004	8,196	7,620	8,471	7,875	7,488	88,451
Consumptive Use	3,438	12,178	20,694	24,376	23,213	27,545	29,242	18,801	15,740	13,301	6,210	6,038	200,776
Cocopah Indian Reservation													
Diversion at Imperial Dam	0	0	169	142	104	162	141	129	0	0	11	74	932
Pumped from wells	0	0	6	4	3	5	4	4	0	0	1	5	32 1/
Return													
Consumptive Use													
Projected and Regulatory Pumping Unit	13	20	5	0	11	21	43	0	0	50	0	0	163 8/
Return													
Consumptive Use													
Yuma Mesa Outlet Drain	1,214	0	1,212	2,516	0	1,407	1,190	1,678	2,043	1,997	2,095	2,406	17,758 8/

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

CALENDAR YEAR 1979

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 S&SFWA, Sec. 35, T. 10 S., R. 25 W., G&SFM	24	22	10	0	0	0	0	0	0	0	0	0	56 <sup>1/</sup>
Other users pumping from Colorado River and wells in flood plain Davis Dam to International Boundary	1,738	3,670	7,999	10,329	10,101	9,306	9,618	8,880	8,819	6,710	5,237	4,089	86,456 <sup>1/</sup>
Arizona Totals	33,408	95,359	142,073	181,992	194,457	225,163	239,064	199,884	168,565	121,201	88,136	80,463	1,770,040 <sup>12/</sup>
	35,238	30,794	47,654	82,729	57,215	54,205	60,840	61,883	57,437	55,230	57,072	48,890	619,187
	-1,830	64,565	94,419	159,263	137,242	170,958	178,224	138,001	111,128	65,971	31,064	31,573	1,150,853 <sup>12/</sup>

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/ This figure may include some Gila River water. No effort has been made in this or past reports to segregate the Gila River component from the Colorado River component in the Wellton-Mohawk drainage as no methodology has yet been developed therefor. Such an effort will be made in future years, as deemed appropriate, since Wellton-Mohawk is not entitled to return flow credit for Gila River water. This figure includes 177,990 acre-feet of Wellton-Mohawk drainage delivered to Mexico in excess of minimum Treaty requirements pursuant to provisions of Minute No. 242.  
 4/ Pumped from underground and unassigned to district as returns include quantities of drainage from Yuma Mesa as well from South Gila Valley.  
 5/ Includes deliveries to the following water users who have contracts with the United States:  
 Contractor  
 City of Yuma  
 Desert Lawn Memorial  
 Southern Pacific Company  
 Southern Pacific Company  
 Yuma Mesa Fruit Growers Association  
 County of Yuma, Arizona  
 Marine Corps Air Station, Department of the Navy  
 TOTAL  
 6/ Includes deliveries to the following water users who have contracts with the United States.  
 University of Arizona  
 Camille Alec, Jr.  
 7/ Includes deliveries to the following water users who have contracts with the United States.  
 Yuma Union High School District  
 City of Yuma - Smucker 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 monthly distribution of other users in immediate area.  
 11/ Monthly distribution not available.  
 12/ The total is 275 acre-feet greater than the sum of monthly totals because of nonavailable monthly distribution of diversion by Imperial National Wildlife Refuge.

Point of Delivery (acre-feet)

B3-7 Lateral	6
B3-7 Lateral	137
B3-7 Lateral	12
After bay of Yuma Mesa Pumping Plant	49
B3-7 W. Lateral	12
B3-8 Lateral	12
B Canal and B-5.5 W Lateral	1,580
	1,808
B Main Canal	902
B-8 Lateral	96
Yuma Main Canal	245
Yuma Main Canal	73

DIVERIONS FROM MAINSTREAM — AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1979

(B)

STATE OF ARIZONA

(ACRE FEET) Sheet 1 of 5

WATER USER	ACRE FEET												TOTALS 1/
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
Wayne Burges 2 wells SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> , Sec. 34, T. 4 N., R. 22 W., G&SRM	140	77	457	749	1,223	519	515	630	401	196	128	391	5,426 2/
Arkelian Farms 2 pumps SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> , Sec. 16, T. 1 N., R. 23 W., G&SRM													2,526
Sprawl (A. Towery) 1 pump SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> , Sec. 21, T. 1 N., R. 23 W., G&SRM													3,192
Cibola Valley Irrigation and Drainage District 3 pumps SE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> , Sec. 20, T. 1 N., R. 23 W., G&SRM	405	647	2,223	2,666	2,435	1,649	1,661	1,430	1,654	1,385	1,008	852	18,015 2/
Swan, Ron 1 pump SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> , Sec. 2, T. 15 N., R. 24 W., G&SRM													720
Bishop, Louis 1 pump NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> , Sec. 31, T. 1 S., R. 23 W., G&SRM													990
Martinez, Sam 2 pumps NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> , Sec. 1, T. 2 S., R. 24 W., G&SRM													2,592 5/
BLM Permittees Davis Dam to Imperial Dam													66
Subtotals - Davis Dam to Imperial Dam	545 235	724 312	2,680 1,153	3,415 1,469	3,658 1,574	2,168 933	2,176 936	2,060 886	2,055 884	1,581 680	1,136 489	1,243 535	23,441 10,086

DIVERIONS FROM MAINSTREAM — AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1979

V(B)

STATE OF ARIZONA

(ACRE - FEET) Sheet 2 of 5

WATER USER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS 1/
Pratt, Loren													
1 well													228
SWAMP#1, Sec. 14, T. 7 S., R. 22 W., GASRM													
1 pump													222
SE#1SW#1, Sec. 14, T. 7 S., R. 22 W., GASRM													
Dalin, Arlin													
1 well	0	176	143	31	75	158	161	175	126	138	152	20	1,355 2/
SWAMP#1, Sec. 8, T. 8 S., R. 22 W., GASRM													
1 well	0	0	114	24	76	71	226	247	178	31	0	0	967 2/
SE#1SW#1, Sec. 7, T. 8 S., R. 22 W., GASRM													
Sturges, Steve													
9 wells	397	1,189	1,551	2,164	1,952	2,328	2,286	2,011	1,983	1,124	1,257	1,032	19,214 2/
Sec. 18 T. 8 S., R. 21 W., and Sec.'s 13 & 14, T. 8 S., R. 22 W., GASRM													
Yowelman, R.													
1 well													720
NW#1SW#1, Sec. 17, T. 8 S., R. 22 W., GASRM													
Auza, Pete													
1 well	2	0	156	96	44	159	305	304	255	0	0	0	1,321 2/
SE#1SW#1, Sec. 18, T. 8 S., R. 22 W., GASRM													
1 pump													1,590
SE#1SW#1, Sec. 24, T. 8 S., R. 23 W., GASRM													
1 well													1,590
SE#1SW#1, Sec. 18, T. 8 S., R. 22 W., GASRM													
Ott, Judd													
1 well	0	63	34	73	60	95	52	49	8	16	0	42	492 2/
NW#1SW#1, Sec. 30, T. 8 S., R. 22 W., GASRM													
1 well	42	45	33	28	32	57	42	53	42	24	24	39	461 2/
SE#1SW#1, Sec. 19, T. 8 S., R. 22 W., GASRM													
Cameron Brothers													
1 well	54	25	149	135	124	209	285	278	242	0	137	41	1,679 2/
SE#1SW#1, Sec. 24, T. 8 S., R. 22 W., GASRM													
Harp, R.													
1 well													1,458
SE#1SW#1, Sec. 13, T. 8 S., R. 23 W., GASRM													

DIVERSIONS FROM MAINSTREAM — AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1979  
STATE OF ARIZONA

V(8)

(ACRE - FEET) Sheet 3 of 5

WATER USER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS 1/
<b>Vukasovich</b>													
1 well	0	0	0	0	1	0	0	0	0	21	25	28	75 2/
SE 1/4 SW 1/4, Sec. 24, T. 8 S., R. 22 W., G&SRM													
1 well	30	28	55	67	71	95	74	63	90	49	23	50	695 2/
SW 1/4 SW 1/4, Sec. 24, T. 8 S., R. 23 W., G&SRM													
<b>Sunkist of Yuma</b>													
1 well	0	2	2	6	7	12	7	5	8	4	5	4	62 2/
NE 1/4 SE 1/4, Sec. 23, T. 8 S., R. 23 W., G&SRM													
<b>Yucca Power Plant</b>													
1 well													883
NE 1/4 NW 1/4, Sec. 36, T. 16 S., R. 21 E., SEM													
<b>Runnaley ( G. Russell)</b>													
1 well	2	2	8	51	4	38	58	57	38	16	2	2	278 2/
NE 1/4 SE 1/4, Sec. 28, T. 16 S., R. 22 E., SEM													
<b>Power, Bill</b>													
1 pump													1,980
SW 1/4 NE 1/4, Sec. 30, T. 16 S., R. 22 E., SEM													
<b>Power, R. E. (P. Power)</b>													
1 pump													1,920
SW 1/4 NE 1/4, Sec. 30, T. 16 S., R. 22 E., SEM													
<b>Hall, Ansil</b>													
1 pump													480
NW 1/4 SW 1/4, Sec. 36, T. 16 S., R. 21 E., SEM													
<b>Burrell</b>													
1 well													192
NW 1/4 NE 1/4, Sec. 33, T. 8 S., R. 24 W., G&SRM													
<b>Ranch 220 Trust 284</b>													
1 well	0	14	64	135	110	128	95	165	176	159	74	63	1,183 2/
SE 1/4 NE 1/4, Sec. 19 T. 9 S., R. 24 W., G&SRM													
1 well	0	10	37	78	63	74	60	94	100	90	43	37	686 2/
NW 1/4 SE 1/4, Sec. 19 T. 9 S., R. 24 W., G&SRM													
1 well	0	8	34	71	58	68	56	87	92	83	39	33	629 2/
NE 1/4 SE 1/4, Sec. 19, T. 9 S., R. 24 W., G&SRM													



DIVERIONS FROM MAINSTREAM — AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1979  
STATE OF ARIZONA

V(B)

WATER USER	(ACRE - FEET)												TOTALS 1/
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
Consoul, Lee 1 well	84	135	253	266	256	281	334	284	279	596	376	127	3,251 2/
NEWMAN, Sec. 31, T. 9 S., R. 24 W., GASRM													
1 well	54	91	172	177	167	217	243	177	126	403	256	84	2,167 2/
NEWMAN, Sec. 36, T. 9 S., R. 25 W., GASRM													
Brand, W. - Donnelly, D. 1 well													840
NEWMAN, Sec. 35, T. 9 S., R. 25 W., GASRM													
Sibley, Phil 1 well	25	55	28	183	124	137	270	140	113	67	76	31	1,249 2/
NEWMAN, Sec. 1, T. 10 S., R. 25 W., GASRM													
1 well													1,086
NEWMAN, Sec. 2, T. 10 S., R. 25 W., GASRM													
1 well	0	0	0	89	0	42	50	34	19	2	90	0	326 2/
NEWMAN, Sec. 14, T. 10 S., R. 25 W., GASRM													
Daniel, A. T. (Cummings) 1 well													360
NEWMAN, Sec. 26, T. 10 S., R. 25 W., GASRM													
1 well													960
Cummings, C. & J. 1 well													
NEWMAN, Sec. 26, T. 10 S., R. 25 W., GASRM													
1 well													360
Barkley, J. 1 well													
NEWMAN, Sec. 35, T. 10 S., R. 25 W., GASRM													
1 well	0	18	80	33	62	54	119	57	52	64	16	32	987 2/
Moore, Marlin P. 1 well													
NEWMAN, Sec. 2, T. 11 S., R. 25 W., GASRM													
1 well													1,383 2/
Hughes, Earl 1 well													
SWANSON, Sec. 3, T. 11 S., R. 25 W., GASRM													
Arizona Subtotals Imperial Dam to International Boundary	690	1,897	2,971	3,909	3,507	4,460	4,672	4,260	4,226	3,201	2,602	1,665	38,060
Arizona Totals	268	737	1,155	1,536	1,362	1,745	1,834	1,674	1,654	1,248	1,010	646	14,869
	1,738	3,670	7,959	10,329	10,101	9,306	9,618	8,880	8,819	6,710	5,237	4,089	86,456

DIVERSIONS FROM MAINSTREAM — AVAILABLE RETURN FLOW  
 AND CONSUMPTIVE USE OF SUCH WATER  
 CALENDAR YEAR 1979  
 STATE OF ARIZONA

V(B)

(ACRE FEET) Sheet 5 of 5

WATER USER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
<p>1/ Calculated by assuming an annual diversion of 6 acre-feet per irrigated acre unless otherwise noted.</p> <p>2/ Calculated from monthly power records and power-discharge measurements where available, and where power-discharge measurements were not available calculated from power-discharge rate.</p> <p>3/ Total of items for which monthly distribution is shown.</p> <p>4/ Total of items for which monthly distribution is not shown. Distributed according to monthly distribution of other users in immediate area.</p> <p>5/ Contract farming for Arizona Department of Game &amp; Fish.</p>													

DIVERIONS FROM MAINSTREAM - AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1979

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STATE OF CALIFORNIA

(ACRE FEET) Sheet 1 of 2

WATER USER	STATE OF CALIFORNIA												TOTALS
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
Fort Mohave Indian Reservation Pumped from wells	379	536	799	1,761	1,142	1,315	1,318	1,632	1,347	706	530	307	11,772
													1/
City of Needles 4 wells NW1/4SW1/4, Sec. 29, T. 9 N., R. 23 E., SRM	78	84	128	192	229	337	416	379	358	267	145	100	2,713
	31	31	45	47	65	76	83	84	80	57	45	32	676
	47	53	83	145	164	261	333	295	278	210	100	68	2,037
San Bernardino County 1 well	1	1	1	1	1	2	2	2	1	1	1	1	15
													1/
Metropolitan Water District of Southern California Diversion from Lake Havasu	49,048	39,414	51,804	75,002	86,305	81,950	81,790	81,845	60,692	69,237	67,183	66,368	812,608
	354	314	351	308	301	300	296	321	310	325	324	347	3,651
	48,694	39,100	51,453	74,694	86,004	81,650	81,494	81,494	60,382	68,912	66,859	68,021	808,757
Parker Dam and Government Camp Diversion at Parker Dam	14	15	18	24	28	38	45	37	32	27	19	16	313
	1	1	1	2	3	3	4	3	3	2	1	1	25
	13	14	17	22	25	35	41	34	29	25	18	15	288
Colorado River Indian Reservation 6/ Pumped from 11 pumps 1 well - Big River	331	253	444	1,092	1,582	843	902	804	1,166	362	321	344	8,444
	0	1	1	1	1	1	2	2	2	1	1	1	14
													1/
Palo Verde Irrigation District Diversion from Palo Verde Dam	30,102	53,475	81,609	105,879	107,150	107,823	113,813	99,968	94,772	57,226	50,200	49,740	951,757
	35,866	29,036	36,598	41,645	45,530	43,738	46,304	48,852	45,322	42,197	39,207	37,852	492,147
	-5,764	24,439	45,011	64,234	61,620	64,085	67,509	51,116	49,450	15,029	10,993	11,888	459,610
Yuma Project Reservation Division Indian Unit Diversion at Imperial Dam	727	2,156	4,597	4,634	3,999	6,218	6,988	3,931	2,181	1,739	1,188	900	39,258
													1/
Yuma Project Reservation Division Bard Unit Diversion at Imperial Dam	1,071	3,620	3,501	3,709	5,313	7,486	7,220	5,682	2,673	3,484	2,792	2,359	48,910
													1/

DIVERSIONS FROM MAINSTREAM - AVAILABLE RETURN FLOW

AND CONSUMPTIVE USE OF SUCH WATER

CALENDAR YEAR 1979

STATE OF CALIFORNIA

V(B)

(ACRE - FEET) Sheet 2 of 2

WATER USER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Returns from Yuma Project	1,880	1,488	2,243	2,108	2,221	2,290	2,508	2,461	1,596	1,868	1,863	1,683	24,209
Reservoir Division Returns	78,077	163,044	258,863	394,318	310,910	283,508	311,491	301,207	286,264	228,235	177,964	150,354	2,884,235 <sup>1/</sup>
Imperial Irrigation District													
Diversion at Imperial Dam													
Consumptive Use													
Coachella Valley Water District													
Diversion at Imperial Dam	22,917	29,272	39,133	55,602	56,623	58,371	58,247	55,456	55,656	41,685	30,739	27,032	530,733 <sup>1/</sup>
Consumptive Use													
City of Winterhaven													
1 well													
SE 3/4 Sec. 27, T. 16 S., R. 22 E.,													
Return													
Consumptive Use													110 <sup>3/4</sup>
Other Users pumping from Colorado River													
and wells in flood plain													
Nevada-California state line to													
International Boundary <sup>4/</sup>													
(18 miles south of Davis Dam to the													
International Boundary)													
California Totals	183,114	292,068	443,126	603,724	574,743	550,604	585,528	554,621	507,179	403,404	311,321	299,789	5,309,331 <sup>5/</sup>
Diversion	38,132	30,870	39,238	44,110	48,120	46,407	49,195	51,721	47,311	44,449	41,440	39,915	520,908
Return	144,982	261,198	403,888	559,614	526,623	504,197	536,333	502,900	459,868	358,955	269,881	259,874	4,788,423 <sup>5/</sup>
Consumptive Use													

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.

<sup>1/</sup> No surface returns.

<sup>2/</sup> Returns unassigned include unknown quantities of drainage from the Indian Unit and the Bard Unit in the Reservation Division but exclude seepage from the All-American Canal.

<sup>3/</sup> Monthly distribution not available.

<sup>4/</sup> Details on California Supplemental Sheets 1-3.

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

<sup>6/</sup> 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.

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

<sup>8/</sup> Total of items for which monthly distribution is not shown. Distributed according to monthly distribution of other users in immediate area.

DIVERIONS FROM MAINSTREAM — AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1979

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STATE OF CALIFORNIA

(ACRE - FEET) Sheet 1 of 3

WATER USER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
<b>Soto Brothers</b>													
1 well SW1/4SE1/4, Sec. 36, T. 11 N., R. 21 E., SEM													840
Diversion													
<b>Deason, Richard (Tri-State)</b>													
1 well NW1/4SW1/4, Sec. 31, T. 11 N., R. 22 E., SEM													1,200
Diversion													
1 well SE1/4SW1/4, Sec. 36, T. 11 N., R. 21 E., SEM													720
Diversion													
<b>R. L. Lyle</b>													
1 well SE1/4SW1/4, Sec. 16, T. 1 S., R. 24 E., SEM													66
Diversion													
<b>RIM Permittees</b>													
Subtotals - Davis Dam to Imperial Dam	60	33	359	243	235	437	531	597	328	70	39	44	2,976
Diversion													150
<b>Cole (R. Land)</b>													
1 well SW1/4SW1/4, Sec. 35, T. 15 S., R. 23 E., SEM													636
Diversion													
<b>Berryman</b>													
1 well NW1/4SW1/4, Sec. 2, T. 16 E., R. 23 E., SEM	1	0	112	0	15	43	97	93	21	0	0	0	382 2/
Diversion													
<b>Duke (P. Power)</b>													
1 pump NW1/4SW1/4, Sec. 14, T. 16 S., R. 23 E., SEM													1,992
Diversion													
<b>H. Mitchell</b>													
1 well SE1/4SW1/4, Sec. 22, T. 16 S., R. 23 E., SEM	5	56	36	70	74	60	68	79	53	3	3	0	507 2/
Diversion													
<b>Perez F. (Slade)</b>													
1 well NE1/4SW1/4, Sec. 6, T. 8 S., R. 22 W., G&SRM	84	0	225	26	67	150	167	214	13	0	0	0	946 2/
Diversion													
<b>Barrett (R. Harp)</b>													
1 well SE1/4SW1/4, Sec. 6, T. 8 S., R. 22 W., G&SRM													858
Diversion													
<b>Spencer M.</b>													
1 well SW1/4SW1/4, Sec. 9, T. 16 S., R. 23 E., G&SRM	0	15	91	0	0	109	90	132	0	0	0	0	437 2/
Diversion													

DIVERSIONS FROM MAINSTREAM — AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1979

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STATE OF CALIFORNIA

(ACRE - FEET) Sheet 2 of 3

WATER USER	1979												TOTALS 1/		
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER			
Martin M. (A. Dees)															
1 pump NE1/4SW1/4, Sec. 1, T. 8 S., R. 23 W., GASRM	0	2	0	0	0	18	0	0	0	0	0	0	0	0	20 2/
1 pump SE1/4NW1/4, Sec. 1, T. 8 S., R. 23 W., GASRM	0	0	75	24	21	69	165	69	51	0	0	0	0	0	474 2/
Schaffer, F. (R. Harp)															
1 well SW1/4NE1/4, Sec. 2, T. 8 S., R. 23 W., GASRM	0	0	139	0	17	68	194	244	80	0	0	0	0	0	742 2/
Coley M.															
1 well SE1/4SW1/4, Sec. 18, T. 16 S., R. 23 E., SEM	0	0	0	47	0	53	49	60	53	0	0	0	0	0	262 2/
Taylor Brothers															
1 well NE1/4SE1/4, Sec. 2, T. 8 S., R. 23 W., GASRM	1	0	100	26	107	128	150	135	104	19	1	0	0	0	771 2/
Wilson (R. Harp)															
1 well NE1/4NW1/4, Sec. 12, T. 8 S., R. 23 W., GASRM	14	3	47	30	36	68	93	101	63	19	19	25	0	0	518 2/
Easterday, Anne															
1 well SW1/4SE1/4, Sec. 1, T. 8 S., R. 23 W., GASRM	2	0	4	120	0	41	75	104	14	0	0	0	0	0	360 2/
Dees, John															
1 well SE1/4SE1/4, Sec. 1, T. 8 S., R. 23 W., GASRM	106	6	123	193	264	323	303	320	269	189	78	50	0	0	2,224 2/
Evans E. (R. Harp)															
1 well SE1/4NE1/4, Sec. 12, T. 8 S., R. 23 W., GASRM	1	2	2	37	0	24	0	156	2	0	0	3	0	0	227 2/
Harp P.															
1 well SW1/4SE1/4, Sec. 12, T. 8 S., R. 23 W., GASRM															882
Easterday, Kenneth															
1 well NW1/4SW1/4, Sec. 12, T. 8 S., R. 23 W., GASRM	8	12	90	214	43	145	136	136	332	12	7	60	0	0	1,195 2/
Smith F. (P. Power)															
1 well NE1/4SW1/4, Sec. 11, T. 8 S., R. 23 W., GASRM	0	10	69	74	95	68	117	132	59	10	35	22	0	0	691 2/

DIVERIONS FROM MAINSTREAM — AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1979

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STATE OF CALIFORNIA

(ACRE - FEET) Sheet 3 of 3

WATER USER	DIVERSION	CALENDAR YEAR 1979												TOTALS 1/			
		JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER				
Musgrave (Barkley Company)																	
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., SEM	Diversion	0	0	0	30	0	25	31	34	15	0	0	0	0	0	0	135 2/
Slade W. 1 pump SW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> , Sec. 29, T. 16 S., R. 22 E., SEM	Diversion	0	2	54	0	27	26	60	26	0	0	0	0	0	0	0	195 2/
Hudson C. A. 1 pump NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> , Sec. 29, T. 16 S., R. 22 E., SEM	Diversion	0	0	155	6	110	200	174	196	64	0	0	0	0	0	0	905 2/
Cloud 1 well NW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> , Sec. 29, T. 16 S., R. 22 E., SEM	Diversion	0	10	19	12	3	15	14	0	32	9	0	0	0	0	0	114 2/
Subtotals - Imperial Dam to Boundary	Diversion 3/ Diversion 4/	222 87	118 46	1,341 528	909 397	879 346	1,633 642	1,983 780	2,231 878	1,225 482	261 103	143 56	160 63	11,105 4,368			
Total California	Diversion	369	197	2,228	1,509	1,460	2,712	3,294	3,706	2,035	434	238	267	18,449			

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.

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DIVERIONS FROM MAINSTREAM — AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1979  
STATE OF NEVADA

WATER USER	(ACRE - FEET) Sheet 1 of 3												
	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	28 94	37 104	47 152	53 282	66 386	95 479	97 521	90 393	82 421	52 373	49 212	43 165	739 3,582 <sup>2/</sup>
Lake Mead National Recreation Area Diversion at Lake Mead Diversion at Saddle Island, Lake Mead	31 1	27 1	43 2	88 6	84 7	99 10	111 10	103 6	93 7	86 5	72 4	53 3	890 62 <sup>2/</sup>
Basic Management Inc. Diversion at Saddle Island, Lake Mead	530	478	594	598	610	970	1,043	1,018	1,036	773	606	749	8,965 <sup>2/</sup>
City of Henderson Diversion at Lake Mead Diversion at Saddle Island, Lake Mead	13 296	12 322	29 399	97 604	331 540	437 640	614 575	502 481	477 514	353 484	56 487	58 389	2,979 5,731 <sup>2/</sup>
Las Vegas Valley Water District Diversion at Saddle Island, Lake Mead	3,510	3,056	3,606	5,567	6,888	7,625	9,270	9,063	9,623	8,857	7,235	5,863	80,163 <sup>2/</sup>
Nevada State Department of Fish and Game Diversion at Saddle Island, Lake Mead	390 390 0	346 345 1	383 383 0	338 337 1	383 383 0	357 357 0	359 358 1	356 355 1	346 345 1	348 348 0	364 363 1	375 375 0	4,345 4,339 6
Pacific Coast Building Products, Inc. Diversion at Gypsum Wash	40	47	51	50	52	56	48	31	48	42	45	93	563 <sup>2/</sup>
City of North Las Vegas Diversion at Saddle Island, Lake Mead	66	130	315	653	999	1,360	1,338	1,023	986	733	324	359	8,286 <sup>2/</sup>



DIVERSIONS FROM MAINSTREAM -- AVAILABLE RETURN FLOW  
AND CONSUMPTIVE USE OF SUCH WATER  
CALENDAR YEAR 1979

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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	95	94	159	196	257	293	298	235	222	182	107	89	2,227 <sup>2/</sup>
	Diversion Return Consumptive Use												
Ranelli, William C. Lot No. 3, Sec. 13, T. 32 S., R. 66 E., MDBEM													3 <sup>1/2/</sup>
	Diversion Return Consumptive Use												
Southern California Edison Company Diversion at Pumping Plant in Sec. 24, T. 32 S., R. 66 E., MDBEM	771	989	645	988	876	843	1,345	1,414	856	1,458	1,103	646	11,934 <sup>2/</sup>
	Diversion Return Consumptive Use												
Wiebke, Armin T. Lot No. 1, Sec. 33, T. 32 S., R. 66 E., MDBEM (except W. 500' & E. 630')													5 <sup>1/2/</sup>
	Diversion Return Consumptive Use												
Fortenier, Warren E. W <sup>1/2</sup> , Lot No. 1, Sec. 33, T. 32 S., R. 66 E., MDBEM													42 <sup>1/2/</sup>
	Diversion Return Consumptive Use												
Welles, John C. 1 pump E <sup>1/2</sup> , Lot No. 2, Sec. 33, T. 32 S., R. 66 E., MDBEM													8 <sup>1/2/</sup>
	Diversion Return Consumptive Use												
Cavanaugh, Milton E. 1 pump W <sup>1/2</sup> , Lot No. 2, Sec. 33, T. 32 S., R. 66 E., MDBEM													8 <sup>1/2/</sup>
	Diversion Return Consumptive Use												
LAS VEGAS WASH RETURN FLOWS	3,741	2,459	3,040	4,635	5,781	6,803	7,892	7,402	7,724	6,837	5,296	4,509	66,119
	Returns												
Nevada Totals	5,865	5,643	6,385	9,520	11,479	13,264	15,229	14,715	14,711	13,746	10,664	8,845	130,532 <sup>2/</sup>
	Diversion Return Consumptive Use												
	4,131	2,804	3,423	4,972	6,164	7,160	8,250	7,757	8,069	7,185	5,659	4,884	70,458 <sup>6/</sup>
	Diversion Return Consumptive Use												
	1,734	2,839	2,962	4,548	5,315	6,104	7,379	6,958	6,642	6,561	5,005	3,961	60,074 <sup>2/</sup>
	Diversion Return Consumptive Use												

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

CALENDAR YEAR 1979

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STATE OF NEVADA

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
<p>NOTE: The term "Consumptive Use" in this tabulation means measured diversion including underground pumping less measured return flow and less unmeasured return flow to the river.</p> <p>1/ Delivered through the facilities of the Southern Nevada Water Project.</p> <p>2/ No surface return.</p> <p>3/ Delivered through the facilities of Basic Management Inc.</p> <p>4/ Reports annually.</p> <p>5/ The monthly totals do not add to the annual total because of the nonavailability of monthly values footnoted 4/.</p> <p>6/ Estimate based on the percentage of Colorado River water used in the Las Vegas Valley.</p>													

(ACRE - FEET) Sheet 3 of 3

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 1979

The following tabulations for calendar year 1979 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.



V(C)

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 1979  
 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	1,158	672	1,014	282	496	615	714	1,162	365	863	774	409	8,524
Ordered but not Diverted Delivered to Mexico in	0	0	0	0	0	0	0	0	0	0	0	0	0
Satisfaction of Treaty	169	288	81	65	89	286	270	38	192	107	228	278	2,091
Diverted by Others	989	384	753	217	407	329	357	483	173	732	546	131	5,501
Delivered to Storage 2/ Delivered to Mexico in	0	0	180	0	0	0	87	641	0	24	0	0	932
Excess of Treaty	3,338	2,465	2,817	2,317	1,684	2,757	1,686	4,756	1,922	3,191	1,785	1,168	29,886
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 Delivered to Mexico in	81	926	359	958	484	988	698	216	708	375	216	145	6,154
Satisfaction of Treaty	3,257	1,539	2,315	1,359	1,200	1,769	738	978	1,214	2,756	1,569	1,023	19,717
Diverted by Others	0	0	143	0	0	0	250	3,562	0	60	0	0	4,015
Delivered to Storage 2/ Delivered to Mexico in	147	230	161	222	216	411	232	389	361	343	149	119	2,980
Excess of Treaty	0	0	0	0	0	0	0	0	0	0	0	0	0
Unit B I. & D.D. Diversion at Imperial Dam	0	52	0	4	0	95	36	20	210	44	2	4	467
Ordered but not Diverted Delivered to Mexico in	147	178	161	218	216	316	150	161	151	285	147	115	2,245
Satisfaction of Treaty	0	0	0	0	0	0	46	208	0	14	0	0	268
Diverted by Others	44	0	0	0	0	0	217	416	0	22	7	0	706
Delivered to Storage 2/ Delivered to Mexico in	0	0	0	0	0	0	0	0	0	0	0	0	0
Excess of Treaty	12	0	0	0	0	0	152	106	0	5	5	0	280
City of Yuma Diversion at Imperial Dam	32	0	0	0	0	0	32	51	0	16	2	0	133
Ordered but not Diverted Delivered to Mexico in	0	0	0	0	0	0	33	259	0	1	0	0	293
Satisfaction of Treaty	3,257	849	3,536	1,753	3,098	1,951	2,793	4,453	839	2,321	2,496	2,233	29,579
Diverted by Others	0	0	0	0	0	0	0	0	0	0	0	0	0
Delivered to Storage 2/ Delivered to Mexico in	873	555	1,329	1,540	1,453	1,726	1,960	1,129	504	495	1,636	1,451	14,651
Excess of Treaty	2,384	294	1,817	213	1,645	225	415	552	335	1,682	860	782	11,204
Yuma County Water Users' Association Diversion at Imperial Dam	0	0	390	0	0	0	418	2,772	0	144	0	0	3,724

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

AND  
QUANTITY OF SUCH WATER DELIVERED TO MEXICO IN SATISFACTION OF MEXICAN TREATY OR DIVERTED BY OTHERS  
CALENDAR YEAR 1979  
STATE OF ARIZONA

(ACRE - FEET) Sheet 3 of 3

WATER USER	STATE OF ARIZONA												TOTALS	
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER		
Cocopah Indian Reservation Diversion at Imperial Dam	Ordered but not Diverted	0	0	22	8	10	9	11	22	0	0	2	14	98
	Delivered to Mexico in	0	0	0	0	0	0	0	0	0	0	0	0	0
	Satisfaction of Treaty	0	0	8	7	5	8	8	0	0	0	0	1	9
	Diverted by Others	0	0	11	1	5	2	2	3	0	0	1	5	29
	Delivered to Mexico in	0	0	3	0	0	0	1	14	0	0	0	0	18
Arizona Totals	Ordered but not Diverted	15,952	7,111	17,914	8,779	12,034	9,546	14,109	19,832	9,305	13,902	10,860	8,740	148,064
	Delivered to Mexico in	2,111	2,371	2,725	3,486	3,177	4,236	4,205	2,715	3,140	2,110	3,042	3,198	36,516
	Satisfaction of Treaty	13,841	4,740	13,412	5,293	8,857	5,310	6,668	4,909	6,165	11,309	7,818	5,542	93,844
	Diverted by Others	0	0	1,777	0	0	0	3,236	12,208	0	483	0	0	17,704
	Delivered to Mexico in	0	0	0	0	0	0	0	0	0	0	0	0	0

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



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

(VIC)

AND  
QUANTITY OF SUCH WATER DELIVERED TO MEXICO IN SATISFACTION OF MEXICAN TREATY OR DIVERTED BY OTHERS  
CALENDAR YEAR 1979  
STATE OF CALIFORNIA

(ACRE - FEET) Sheet 2 of 2

WATER USER	(ACRE - FEET) Sheet 2 of 2												
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Coachella Valley Water District Diversion at Imperial Dam	1,823	1,111	278	0	278	555	3,055	3,332	972	1,666	0	555	13,625
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	486	815	0	0	244	464	1,654	609	256	165	0	135	4,828
Delivered to Storage 1/	1,337	296	28	0	34	91	306	160	716	1,501	0	420	4,889
Delivered to Mexico in Excess of Treaty	0	0	250	0	0	0	1,095	2,563	0	0	0	0	3,908
California Totals	22,749	2,813	13,890	2,530	4,154	3,356	15,876	16,121	2,554	14,337	3,854	2,615	104,849
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	1,827	1,722	2,515	1,416	1,514	870	2,946	1,672	1,274	1,086	0	1,904	19,427
Delivered to Storage 1/	20,922	1,091	2,451	1,114	2,640	2,486	2,688	1,358	1,280	9,002	1,950	1,934	48,916
Delivered to Mexico in Excess of Treaty	0	0	8,924	0	0	0	10,242	13,091	0	4,249	0	0	36,506

1/ Available for future use.

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 1979  
STATE OF CALIFORNIA

(ACRE - FEET) Sheet 1 of 2

WATER USER	STATE OF CALIFORNIA												TOTALS			
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER				
Metropolitan Water District Diversion at Lake Havasu	Ordered but not Diverted	5,512	0	0	0	0	1,320	650	25	0	0	0	0	0	0	7,507
	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	0	0	0	0	0	0	0	0	0	0	0
	Diverted by Others	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Delivered to Storage <u>1/</u>	5,512	0	0	0	0	1,320	650	25	0	0	0	0	0	0	7,507
Palo Verde Irrigation District Diversion at Palo Verde Dam	Delivered to Mexico in	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Excess of Treaty	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Ordered but not Diverted	722	708	1,466	1,400	1,208	1,261	2,325	944	553	367	2,892	1,271	15,117		
	Delivered to Mexico in	0	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	0	0
Yuma Project Reservation Division Bard Unit Diversion at Imperial Dam	Diverted by Others	250	458	746	391	375	208	516	109	167	296	1,236	165	4,459		
	Delivered to Storage <u>1/</u>	722	458	678	1,009	833	1,053	1,482	252	386	71	1,656	1,106	9,706		
	Delivered to Mexico in	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Excess of Treaty	0	0	0	42	0	0	327	583	0	0	0	0	0	952	
	Ordered but not Diverted	1,179	634	1,188	417	814	119	495	1,289	542	627	647	557	8,508		
Yuma Project Reservation Division Indian Unit Diversion at Imperial Dam	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	0	0	0	0	0	0	0	0	0	0	0
	Diverted by Others	676	419	562	370	343	107	198	526	448	131	449	269	4,498		
	Delivered to Storage <u>1/</u>	503	215	403	47	471	12	126	227	94	423	198	288	3,007		
	Delivered to Mexico in	0	0	0	223	0	0	171	536	0	73	0	0	1,003		
Yuma Project Reservation Division Indian Unit Diversion at Imperial Dam	Excess of Treaty	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Ordered but not Diverted	925	360	1,503	515	616	101	487	976	487	359	315	232	6,876		
	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	0	0	0	0	0	0	0	0	0	0	0
	Diverted by Others	530	238	711	457	260	91	195	398	403	75	219	112	3,689		
Imperial Irrigation District Diversion at Imperial Dam	Delivered to Storage <u>1/</u>	395	122	509	58	396	10	124	172	84	242	96	120	2,288		
	Delivered to Mexico in	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Excess of Treaty	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Ordered but not Diverted	12,588	0	9,455	198	1,238	0	8,864	9,555	0	11,318	0	0	53,216		
	Delivered to Mexico in	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Imperial Irrigation District Diversion at Imperial Dam	Satisfaction of Treaty	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Diverted by Others	135	0	496	198	292	0	383	30	0	419	0	0	1,953		
	Delivered to Storage <u>1/</u>	12,453	0	833	0	946	0	522	522	0	6,765	0	0	21,519		
	Delivered to Mexico in	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Excess of Treaty	0	0	0	8,126	0	0	8,481	9,003	0	4,134	0	0	29,744		

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 1979

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

V(D)

CALENDAR YEAR 1979

(ACRE - FEET)

WATER USER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Deliveries to Mexico in Satisfaction of Treaty	80,936	76,350	175,721	226,912	110,144	151,626	229,995	234,640	141,518	88,683	56,750	126,725	1,700,000 <sup>2/</sup>
Passing to Mexico in Excess of Treaty requirements	21,659	35,616	38,300	14,673	205,908	176,011	182,139	183,143	188,745	220,073	225,947	153,199	1,645,413 <sup>1/</sup> <sup>2/</sup>

1/ Includes 177,990 acre-feet delivered pursuant to Minute 242.  
 2/ Includes 200,000 acre-feet scheduled under Paragraph (E), Article 15, of the 1944 Treaty with Mexico.  
 3/ Includes Painted Rock flood control releases and anticipatory flood control releases from Hoover Dam.

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 1979

