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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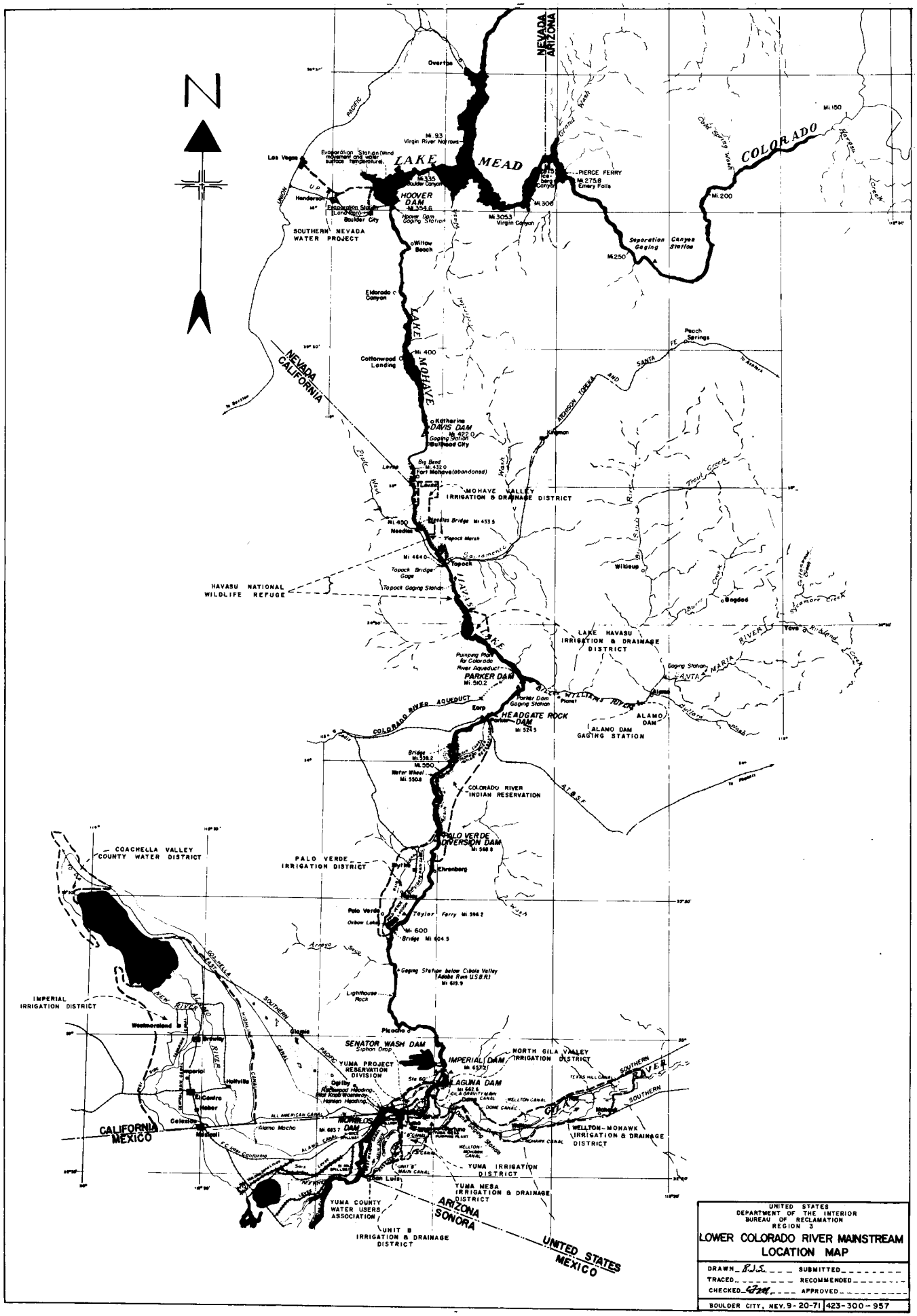

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION
REGION 3

LOWER COLORADO RIVER MAINSTREAM LOCATION MAP

DRAWN R.J.S.	SUBMITTED
TRACED	RECOMMENDED
CHECKED GPM	APPROVED

BOULDER CITY, NEV. 9-20-71 | 423-300-957

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

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 "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

V(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	857,700	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	394,800	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	348,700	7,195,000
Headgate Rock Dam 1/	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 2/	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 3/	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	28,610	10,530	20,450	25,990	22,950	20,650	24,290	29,340	27,320	24,340	21,800	21,970	278,200

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 Mittry Lake.

RECORDS OF DIVERSIONS, RETURN FLOWS, AND CONSUMPTIVE USE

IN ACCORDANCE WITH ARTICLE V(B) OF THE DECREE OF

THE SUPREME COURT OF THE UNITED STATES IN

ARIZONA v. CALIFORNIA

DATED MARCH 9, 1964

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 quanitities are determined, it is anticipated that such amounts will be credited to the affected users and States in making the consumptive use computations.

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

V(B)

(ACRE - FEET) Sheet 1 of 4

WATER USER		JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Lake Mead National Recreation Area														
Diversion from Lake Mohave	Diversion	7	8	9	19	27	34	34	33	25	17	15	10	238 1/
	Return													
	Consumptive Use													
Davis Dam and Government Camp														
Diversion at Davis Dam	Diversion	6	7	7	16	22	28	28	27	21	14	12	8	196 1/
	Return													
	Consumptive Use													
Mohave Valley Irrigation and Drainage														
District pumped from wells and	Diversion	501	913	1,267	3,356	2,840	2,982	3,033	2,972	1,561	1,134	827	1,375	22,761 1/
Inlet channel to Havasu National	Return													
Wildlife Refuge	Consumptive Use													
Fort Mohave Indian Reservation														
Pumped from 9 pumps and wells in	Diversion	522	738	1,101	2,426	1,573	1,812	1,816	2,248	1,855	973	730	422	16,216 1/
the flood plain	Return													
	Consumptive Use													
Havasu National Wildlife Refuge														
Inlet-NW¼NE¼NW¼, Sec. 33 T. 9 N.,	Diversion	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
R. 23 E., SBM	Return	0	0	0	0	0	0	0	0	0	0	7,081	0	7,081
	Consumptive Use	158	2,099	4,752	4,392	2,799	5,286	5,999	3,680	3,242	5,212	-4,441	1,561	34,739
Lake Havasu Irrigation and Drainage														
District pumped from wells	Diversion	405	401	476	787	847	968	1,029	970	920	870	535	476	8,684 1/
	Return													
	Consumptive Use													
Graham Water Utilities Inc.														
Pumped from wells	Diversion	7	6	7	9	11	11	12	11	11	9	8	7	109 1/
	Return													
	Consumptive Use													
Holiday Harbor Utilities Inc.														
Pumped from wells	Diversion	1	1	1	1	2	2	2	2	2	2	1	1	18 1/
	Return													
	Consumptive Use													
Town of Parker														
1 well - NW¼NW¼NW¼, Sec. 7, T. 9 N.,	Diversion	44	47	58	76	90	120	141	117	101	84	61	51	990 1/
R. 19 W., G&SRM	Return													
	Consumptive Use													

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

V(B)

(ACRE - FEET) Sheet 2 of 4

WATER USER		JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Colorado River Indian Reservation														
Diversion at Headgate Rock Dam	Diversion	4,340	30,242	51,010	60,346	63,288	76,809	87,373	75,587	55,611	30,631	21,204	24,389	580,830
Pumped from 2 wells in Parker	Diversion	4	5	6	6	7	9	9	9	8	6	5	4	78
$SW\frac{1}{4}NE\frac{1}{4}SE\frac{1}{4}$, Sec. 2, T. 9 N., R. 21 W., G&SRM														
4 wells in Poston	Diversion	5	6	6	8	10	12	13	13	12	9	7	6	107
$NW\frac{1}{4}$, Sec. 36, T. 8 N., R. 21 W., G&SRM														
3 pumps	Diversion	37	104	174	195	215	195	175	182	181	149	156	130	1,893
$SW\frac{1}{4}SW\frac{1}{4}NE\frac{1}{4}$, Sec. 14, T. 5 N., R. 22 W., G&SRM														
3 pumps	Diversion	178	504	851	946	1,044	946	851	883	883	725	756	630	9,197
$NE\frac{1}{4}SW\frac{1}{4}NW\frac{1}{4}$, Sec. 14, T. 4 N., R. 22 W., G&SRM														
	Return	12,479	11,077	19,504	22,296	26,497	23,597	28,807	29,787	26,949	23,107	18,801	16,749	259,650
	Consumptive Use	-7,915	19,784	32,543	39,205	38,067	54,374	59,614	46,887	29,746	8,413	3,327	8,410	332,455
Cibola National Wildlife Refuge	Diversion	277	380	655	459	517	725	504	307	208	0	540	710	5,282
	Diversion	201	320	1,101	1,320	1,206	817	823	708	819	686	499	422	8,922 10/
	Return	0	0	0	0	0	25	414	218	0	0	0	0	657 1/
	Consumptive Use	478	700	1,756	1,779	1,723	1,517	913	797	1,027	686	1,039	1,132	13,547
Imperial National Wildlife Refuge														
2 wells	Diversion													275 11/
$NW\frac{1}{4}NW\frac{1}{4}NW\frac{1}{4}$, Sec. 13, T. 5 S., R. 22 W., G&SRM	Return													
$SW\frac{1}{4}NE\frac{1}{4}SW\frac{1}{4}$, Sec. 13, T. 5 S., R. 22 W., G&SRM	Consumptive Use													
Yuma Proving Ground														
Diversion at Imperial Dam	Diversion	1	0	0	0	3	0	2	0	0	2	0	0	8
	Return													1/
	Consumptive Use													-
North Gila Valley Irrigation District														
Diversion at Imperial Dam	Diversion	1,533	2,901	3,241	4,428	4,925	4,785	5,406	3,907	3,559	4,069	3,335	3,014	45,103
	Return	190	90	209	209	373	486	722	793	614	500	562	591	5,339
	Consumptive Use	1,343	2,811	3,032	4,219	4,552	4,299	4,684	3,114	2,945	3,569	2,773	2,423	39,764
Warren Act Contractors														
Diversion at Imperial Dam	Diversion	0	0	88	61	106	43	74	55	170	224	0	0	821
	Return													1/
	Consumptive Use													

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	Diversion	3,879	16,255	21,064	30,374	33,707	41,359	41,190	34,057	32,890	20,767	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	Diversion	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	Diversion	621	579	635	991	1,019	1,327	1,241	1,324	1,131	840	614	726	11,048	
	Return														1/
	Consumptive Use														
Yuma Mesa I. & D. D.															
Diversion at Imperial Dam	Diversion	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														1/
	Consumptive Use														
Unit "B" I. & D. D.															
Diversion at Imperial Dam	Diversion	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														1/
	Consumptive Use														
Return from South Gila Valley	Returns	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	Diversion	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	193	391	382	705	840	1,122	1,050	732	926	708	500	433	7,982	
Yuma County Water Users Association															
Diversion at Imperial Dam	Diversion	8,413	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	Diversion	836	675	758	682	757	764	886	681	752	766	597	661	8,815	
	Return	5,811	5,803	7,071	7,126	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	Diversion	0	0	169	142	104	162	141	129	0	0	11	74	932	
Pumped from wells	Diversion	0	0	6	4	3	5	4	4	0	0	1	5	32	
	Return														1/
	Consumptive Use														
Projected and Regulatory Pumping Unit	Return	13	20	5	0	11	21	43	0	0	50	0	0	163	8/
Yuma Mesa Outlet Drain	Return	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 V(B)

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 SE¼SE¼NW¼, Sec. 35, T. 10 S., R. 25 W., G&SRM	Diversion Return Consumptive Use	24	22	10	0	0	0	0	0	0	0	0	0	56 1/
Other users pumping from Colorado River and wells in flood plain Davis Dam to International Boundary	Diversion 9/	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 1/
Arizona Totals	Diversion	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 12/
	Return	35,238	30,794	47,654	52,729	57,215	54,205	60,840	61,883	57,437	55,230	57,072	48,890	619,187
	Consumptive Use	-1,830	64,565	94,419	129,263	137,242	170,958	178,224	138,001	111,128	65,971	31,064	31,573	1,150,853 12/

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	Point of Delivery	Annual Delivery (acre-feet)
City of Yuma	B3.7 Lateral	6
Desert Lawn Memorial	B3.7 Lateral	137
Southern Pacific Company	B3.7 Lateral	12
Southern Pacific Company	After bay of Yuma Mesa Pumping Plant	49
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	1,580
TOTAL		1,808

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

University of Arizona	B Main Canal	902
Camille Alec, Jr.	B-8 Lateral	96

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

Yuma Union High School District	Yuma Main Canal	245
City of Yuma - Smucker Park	Yuma Main Canal	73

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.

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

V(B)

(ACRE - FEET) Sheet 1 of 5

WATER USER		JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS 1/
Wayne Burges 2 wells $SW\frac{1}{4}SE\frac{1}{4}SW\frac{1}{4}$, Sec. 34, T. 4 N., R. 22 W., G&SRM	Diversion	140	77	457	749	1,223	519	515	630	401	196	128	391	5,426 2/
Arkelian Farms 2 pumps $SE\frac{1}{4}NW\frac{1}{4}SE\frac{1}{4}$, Sec. 16, T. 1 N., R. 23 W., G&SRM	Diversion													2,526
Sprawl (A. Towery) 1 pump $SE\frac{1}{4}SW\frac{1}{4}NW\frac{1}{4}$, Sec. 21, T. 1 N., R. 23 W., G&SRM	Diversion													3,192
Cibola Valley Irrigation and Drainage District 3 pumps $SE\frac{1}{4}SE\frac{1}{4}NE\frac{1}{4}$, Sec. 20, T. 1 N., R. 23 W., G&SRM	Diversion	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 $SW\frac{1}{4}NW\frac{1}{4}NE\frac{1}{4}$, Sec. 2, T. 15 N., R. 24 W., G&SRM	Diversion													720
Bishop, Louis 1 pump $NW\frac{1}{4}SW\frac{1}{4}SW\frac{1}{4}$, Sec. 31, T. 1 S., R. 23 W., G&SRM	Diversion													990
Martinez, Sam 2 pumps $NW\frac{1}{4}NW\frac{1}{4}SW\frac{1}{4}$, Sec. 1, T. 2 S., R. 24 W., G&SRM	Diversion													2,592 5/
BLM Permitees Davis Dam to Imperial Dam	Diversion													66
Subtotals - Davis Dam to Imperial Dam	Diversion 3/	545	724	2,680	3,415	3,658	2,168	2,176	2,060	2,055	1,581	1,136	1,243	23,441
	Diversion 4/	235	312	1,153	1,469	1,574	933	936	886	884	680	489	535	10,086

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

V(B)

(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 $SW\frac{1}{4}NW\frac{1}{4}NE\frac{1}{4}$, Sec. 14, T. 7 S., R. 22 W., G&SRM	Diversion													228
1 pump $SE\frac{1}{4}SW\frac{1}{4}NW\frac{1}{4}$, Sec. 14, T. 7 S., R. 22 W., G&SRM	Diversion													222
Dulin, Arlin														
1 well $SW\frac{1}{4}NE\frac{1}{4}SE\frac{1}{4}$, Sec. 8, T. 8 S., R. 22 W., G&SRM	Diversion	0	176	143	31	75	158	161	175	126	138	152	20	1,355 2/
1 well $SE\frac{1}{4}SW\frac{1}{4}SW\frac{1}{4}$, Sec. 7, T. 8 S., R. 22 W., G&SRM	Diversion	0	0	114	24	76	71	226	247	178	31	0	0	967 2/
Sturges, Steve														
9 wells Sec. 18 T. 8 S., R. 21 W., and Sec.'s 13 & 14, T. 8 S., R. 22 W., G&SRM	Diversion	397	1,189	1,551	2,164	1,952	2,328	2,226	2,011	1,983	1,124	1,257	1,032	19,214 2/
Yowelman, R.														
1 well $NW\frac{1}{4}SW\frac{1}{4}SW\frac{1}{4}$, Sec. 17, T. 8 S., R. 22 W., G&SRM	Diversion													720
Auza, Pete														
1 well $SE\frac{1}{4}NW\frac{1}{4}SW\frac{1}{4}$, Sec. 18, T. 8 S., R. 22 W., G&SRM	Diversion	2	0	156	96	44	159	305	304	255	0	0	0	1,321 2/
1 pump $SE\frac{1}{4}SE\frac{1}{4}NE\frac{1}{4}$, Sec. 24, T. 8 S., R. 23 W., G&SRM	Diversion													1,590
1 well $SE\frac{1}{4}SE\frac{1}{4}SE\frac{1}{4}$, Sec. 18, T. 8 S., R. 22 W., G&SRM	Diversion													1,590
Ott, Judd														
1 well $NW\frac{1}{4}NE\frac{1}{4}NW\frac{1}{4}$, Sec. 30, T. 8 S., R. 22 W., G&SRM	Diversion	0	63	34	73	60	95	52	49	8	16	0	42	492 2/
1 well $SE\frac{1}{4}SW\frac{1}{4}SW\frac{1}{4}$, Sec. 19, T. 8 S., R. 22 W., G&SRM	Diversion	42	45	33	28	32	57	42	53	42	24	24	39	461 2/
Cameron Brothers														
1 well $SE\frac{1}{4}NE\frac{1}{4}SW\frac{1}{4}$, Sec. 24, T. 8 S., R. 22 W., G&SRM	Diversion	54	25	149	135	124	209	285	278	242	0	137	41	1,679 2/
Harp, R.														
1 well $SE\frac{1}{4}NE\frac{1}{4}NE\frac{1}{4}$, Sec. 13, T. 8 S., R. 23 W., G&SRM	Diversion													1,458

DIVERSIONS FROM MAINSTREAM — AVAILABLE RETURN FLOW
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CALENDAR YEAR 1979
STATE OF ARIZONA

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(ACRE - FEET) Sheet 3 of 5

WATER USER		JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS 1/
Vukasovich														
1 well	Diversion	0	0	0	0	1	0	0	0	0	21	25	28	75 2/
SE¼NE¼SW¼, Sec. 24, T. 8 S., R. 22 W., G&SRM														
1 well	Diversion	30	28	55	67	71	95	74	63	90	49	23	50	695 2/
SW¼SW¼SE¼, Sec. 24, T. 8 S., R. 23 W., G&SRM														
Sunkist of Yuma														
1 well	Diversion	0	2	2	6	7	12	7	5	8	4	5	4	62 2/
NE¼SE¼SW¼, Sec. 23, T. 8 S., R. 23 W., G&SRM														
Yucca Power Plant														
1 well	Diversion													883
NE¼NW¼SW¼, Sec. 36, T. 16 S., R. 21 E., SBM														
Nunnaley (G. Russell)														
1 well	Diversion	2	2	8	51	4	38	58	57	38	16	2	2	278 2/
NE¼SE¼SW¼, Sec. 28, T. 16 S., R. 22 E., SBM														
Power, Bill														
1 pump	Diversion													1,980
SW¼SW¼NE¼, Sec. 30, T. 16 S., R. 22 E., SBM														
Power, R. E. (P. Power)														
1 pump	Diversion													1,920
SW¼SW¼NE¼, Sec. 30, T. 16 S., R. 22 E., SBM														
Hall, Ansil														
1 pump	Diversion													480
NW¼SW¼NW¼, Sec. 36, T. 16 S., R. 21 E., SBM														
Burrell														
1 well	Diversion													192
NW¼NE¼NW¼, Sec. 33, T. 8 S., R. 24 W., G&SRM														
Ranch 220 Trust 284														
1 well	Diversion	0	14	64	135	110	128	95	165	176	159	74	63	1,183 2/
SE¼NE¼NW¼, Sec. 19 T. 9 S., R. 24 W., G&SRM														
1 well	Diversion	0	10	37	78	63	74	60	94	100	90	43	37	686 2/
NW¼SE¼NW¼, Sec. 19 T. 9 S., R. 24 W., G&SRM														
1 well	Diversion	0	8	34	71	58	68	56	87	92	83	39	33	629 2/
NE¼SE¼NW¼, Sec. 19, T. 9 S., R. 24 W., G&SRM														

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WATER USER		JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS 1/
Consoul, Lee														
1 well NE¼NW¼NW¼, Sec. 31, T. 9 S., R. 24 W., G&SRM	Diversion	84	135	253	266	256	281	334	264	279	596	376	127	3,251 2/
1 well NE¼NE¼NE¼, Sec. 36, T. 9 S., R. 25 W., G&SRM	Diversion	54	91	172	177	167	217	243	177	126	403	256	84	2,167 2/
Brand, W. - Donnely, D.														
1 well NE¼NW¼NE¼, Sec. 35, T. 9 S., R. 25 W., G&SRM	Diversion													840
Sibley, Phil														
1 well NE¼NW¼NW¼, Sec. 1, T. 10 S., R. 25 W., G&SRM	Diversion	25	55	28	183	124	137	270	140	113	67	76	31	1,249 2/
1 well NW¼SE¼NE¼, Sec. 2, T. 10 S., R. 25 W., G&SRM	Diversion													1,086
1 well NW¼SE¼NE¼, Sec. 14, T. 10 S., R. 25 W., G&SRM	Diversion	0	0	0	89	0	42	50	34	19	2	90	0	326 2/
Daniel, A. T. (Cummings)														
1 well NW¼NE¼NW¼, Sec. 26, T. 10 S., R. 25 W., G&SRM	Diversion													360
Cummings, C. & J.														
1 well NW¼NE¼NW¼, Sec. 26, T. 10 S., R. 25 W., G&SRM	Diversion													960
Barkley, J.														
1 well NE¼NW¼SW¼, Sec. 35, T. 10 S., R. 25 W., G&SRM	Diversion													360
Moore, Marlin P.														
1 well NE¼NW¼NW¼, Sec. 2, T. 11 S., R. 25 W., G&SRM	Diversion	0	18	80	33	62	54	119	57	52	64	16	32	587 2/
Hughes, Earl														
1 well SW¼NE¼SE¼, Sec. 3, T. 11 S., R. 25 W., G&SRM	Diversion	0	36	58	202	221	237	9	0	299	314	7	0	1,383 2/
Arizona Subtotals	Diversion 3/	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
Imperial Dam to International Boundary	Diversion 4/	268	737	1,155	1,536	1,362	1,745	1,834	1,674	1,654	1,248	1,010	646	14,869
Arizona Totals	Diversion	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
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WATER USER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS

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 power-discharge rate.
3/ Total of items for which monthly distribution is shown.
4/ Total of items for which monthly distribution is not shown. Distributed according to monthly distribution of other users in immediate area.
5/ Contract farming for Arizona Department of Game & Fish.

DIVERSIONS FROM MAINSTREAM - AVAILABLE RETURN FLOW

AND CONSUMPTIVE USE OF SUCH WATER

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(ACRE - FEET) Sheet 1 of 2

WATER USER		JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Fort Mohave Indian Reservation														
Pumped from wells	Diversion 8/	379	536	799	1,761	1,142	1,315	1,318	1,632	1,347	706	530	307	11,772
	Return													1/
	Consumptive Use													
City of Needles														
4 wells	Diversion	78	84	128	192	229	337	416	379	358	267	145	100	2,713
$NW\frac{1}{4}SW\frac{1}{4}$, Sec. 29, T. 9 N., R. 23 E.,	Return	31	31	45	47	65	76	83	84	80	57	45	32	676
SBM	Consumptive Use	47	53	83	145	164	261	333	295	278	210	100	68	2,037
San Bernardino County														
1 well	Diversion	1	1	1	1	1	2	2	2	1	1	1	1	15
	Return													1/
	Consumptive Use													
Metropolitan Water District of Southern California														
Diversion from Lake Havasu	Diversion	49,048	39,414	51,804	75,002	86,305	81,950	81,790	81,845	60,692	69,237	67,183	68,368	812,608
	Return	354	314	351	308	301	300	296	321	310	325	324	347	3,851 7/
	Consumptive Use	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	Diversion 8/	14	15	18	24	28	38	45	37	32	27	19	16	313
	Return	1	1	1	2	3	3	4	3	3	2	1	1	25
	Consumptive Use	13	14	17	22	25	35	41	34	29	25	18	15	288
Colorado River Indian Reservation 6/														
Pumped from 11 pumps	Diversion	331	253	444	1,092	1,582	843	902	804	1,166	362	321	344	8,444
1 well - Big River	Diversion	0	1	1	1	1	1	2	2	2	1	1	1	14
	Return													1/
	Consumptive Use													
Palo Verde Irrigation District														
Diversion from Palo Verde Dam	Diversion	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
	Return	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
	Consumptive Use	-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	727	2,156	4,597	4,634	3,999	6,218	6,988	3,931	2,181	1,739	1,188	900	39,258
Diversion at Imperial Dam	Return													1/
	Consumptive Use													
Yuma Project Reservation Division														
Bard Unit	Diversion	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
Diversion at Imperial Dam	Return													1/
	Consumptive Use													

DIVERSIONS FROM MAINSTREAM - AVAILABLE RETURN FLOW V(B)

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WATER USER		JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Returns from Yuma Project														
Reservation Division Returns	Returns 2/	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
Imperial Irrigation District														
Diversion at Imperial Dam	Diversion	78,077	163,044	258,863	354,318	310,910	283,508	311,491	301,207	286,264	228,235	157,964	150,354	2,884,235
	Return													1/
	Consumptive Use													
Coachella Valley Water District														
Diversion at Imperial Dam	Diversion	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
	Return													1/
	Consumptive Use													
City of Winterhaven														
1 well	Diversion													110 3/
$SE\frac{1}{4}SE\frac{1}{4}NE\frac{1}{4}$, Sec. 27, T. 16 S., R. 22 E., SBM	Return													1/
	Consumptive Use													
Other Users pumping from Colorado River and wells in flood plain Nevada-California stateline to International Boundary 4/ (18 miles south of Davis Dam to the International Boundary)	Diversion 4/	369	197	2,228	1,509	1,460	2,712	3,294	3,706	2,035	434	238	267	18,449
	Return													1/
	Consumptive Use													
California Totals	Diversion	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 5/
	Return	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
	Consumptive Use	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 5/

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.
8/ 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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WATER USER		JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS 1/
Soto Brothers 1 well SW¼NE¼SE¼, Sec. 36, T. 11 N., R. 21 E., SBM	Diversion													840
Deason, Richard (Tri-State) 1 well NW¼NE¼NW¼, Sec. 31, T. 11 N., R. 22 E., SBM	Diversion													1,200
1 well SE¼NE¼SW¼, Sec. 36, T. 11 N., R. 21 E., SBM	Diversion													720
R. L. Lyle 1 well SE¼NE¼NW¼, Sec. 16, T. 1 S., R. 24 E., SBM	Diversion													66
BLM Permittees	Diversion													150
Subtotals - Davis Dam to Imperial Dam	Diversion 4/	60	33	359	243	235	437	531	597	328	70	39	44	2,976
Cole (R. Land) 1 well SW¼SE¼SE¼, Sec. 35, T. 15 S., R. 23 E., SBM	Diversion													636
Berryman 1 well NW¼NW¼NW¼, Sec. 2, T. 16 S., R. 23 E., SBM	Diversion	1	0	112	0	15	43	97	93	21	0	0	0	382 2/
Duke (P. Power) 1 pump NW¼SW¼SW¼, Sec. 14, T. 16 S., R. 23 E., SBM	Diversion													1,992
H. Mitchell 1 well SE¼SE¼NW¼, Sec. 22, T. 16 S., R. 23 E., SBM	Diversion	5	56	36	70	74	60	68	79	53	3	3	0	507 2/
Perez F. (Slade) 1 well NE¼SE¼SW¼, Sec. 6, T. 8 S., R. 22 W., G&SRM	Diversion	84	0	225	26	67	150	167	214	13	0	0	0	946 2/
Barrett (R. Harp) 1 well SE¼SW¼NW¼, Sec 6, T. 8 S., R. 22 W., G&SRM	Diversion													858
Spencer M. 1 well SW¼NE¼SW¼, Sec. 9, T. 16 S., R. 23 E., G&SRM	Diversion	0	15	91	0	0	109	90	132	0	0	0	0	437 2/

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WATER USER		JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS 1/
Martin M. (A. Dees)														
1 pump NE¼NW¼NW¼, Sec. 1, T. 8 S., R. 23 W., G&SRM	Diversion	0	2	0	0	0	18	0	0	0	0	0	0	20 2/
1 pump SE¼NE¼NW¼, Sec. 1, T. 8 S., R. 23 W., G&SRM	Diversion	0	0	75	24	21	69	165	69	51	0	0	0	474 2/
Schaffer, F. (R. Harp)														
1 well SW¼SE¼NE¼, Sec. 2, T. 8 S., R. 23 W., G&SRM	Diversion	0	0	139	0	17	68	194	244	80	0	0	0	742 2/
Coley M.														
1 well SE¼SE¼SW¼, Sec. 18, T. 16 S., R. 23 E., SBM	Diversion	0	0	0	47	0	53	49	60	53	0	0	0	262 2/
Taylor Brothers														
1 well NE¼SE¼SE¼, Sec. 2, T. 8 S., R. 23 W., G&SRM	Diversion	1	0	100	26	107	128	150	135	104	19	1	0	771 2/
Wilson (R. Harp)														
1 well NE¼NW¼NW¼, Sec. 12, T. 8 S., R. 23 W., G&SRM	Diversion	14	3	47	30	36	68	93	101	63	19	19	25	518 2/
Easterday, Anne														
1 well SW¼SW¼SE¼, Sec. 1, T. 8 S., R. 23 W., G&SRM	Diversion	2	0	4	120	0	41	75	104	14	0	0	0	360 2/
Dees, John														
1 well SE¼NE¼SE¼, Sec. 1, T. 8 S., R. 23 W., G&SRM	Diversion	106	6	123	193	264	323	303	320	269	189	78	50	2,224 2/
Evans E. (R. Harp)														
1 well SE¼NE¼NE¼, Sec. 12, T. 8 S., R. 23 W., G&SRM	Diversion	1	2	2	37	0	24	0	156	2	0	0	3	227 2/
Harp P.														
1 well SW¼NE¼SE¼, Sec. 12, T. 8 S., R. 23 W., G&SRM	Diversion													882
Easterday, Kenneth														
1 well NW¼SE¼SW¼, Sec. 12, T. 8 S., R. 23 W., G&SRM	Diversion	8	12	90	214	43	145	136	136	332	12	7	60	1,195 2/
Smith F. (P. Power)														
1 well NE¼SW¼SE¼, Sec. 11, T. 8 S., R. 23 W., G&SRM	Diversion	0	10	69	74	95	68	117	132	59	10	35	22	691 2/

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WATER USER		JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS 1/
Musgrave (Barkley Company) 1 well NE¼SE¼SW¼, Sec. 19, T. 16 S., R. 23 E., SBM	Diversion	0	0	0	30	0	25	31	34	15	0	0	0	135 2/
Slade W. 1 pump SW¼NE¼SE¼, Sec. 29, T. 16 S., R. 22 E., SBM	Diversion	0	2	54	0	27	26	60	26	0	0	0	0	195 2/
Hudson C. A. 1 pump NE¼NW¼SW¼, Sec. 29, T. 16 S., R. 22 E., SBM	Diversion	0	0	155	6	110	200	174	196	64	0	0	0	905 2/
Cloud 1 well NW¼NW¼NW¼, Sec. 29, T. 16 S., R. 22 E., SBM	Diversion	0	10	19	12	3	15	14	0	32	9	0	0	114 2/
Subtotals - Imperial Dam to Boundary	Diversion 3/	222	118	1,341	909	879	1,633	1,983	2,231	1,225	261	143	160	11,105
	Diversion 4/	87	46	528	357	346	642	780	878	482	103	56	63	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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WATER USER		JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Boulder City														
Diversion at Hoover Dam	Diversion	28	37	47	53	66	95	97	90	82	52	49	43	739
Diversion at Saddle Island, Lake Mead	Diversion 1/	94	104	152	282	386	479	521	393	421	373	212	165	3,582
	Return													2/
	Consumptive Use													
Lake Mead National Recreation Area														
Diversion at Lake Mead	Diversion	31	27	43	88	84	99	111	103	93	86	72	53	890
Diversion at Saddle Island, Lake Mead	Diversion 3/	1	1	2	6	7	10	10	6	7	5	4	3	62
	Return													2/
	Consumptive Use													
Basic Management Inc.														
Diversion at Saddle Island, Lake Mead	Diversion	530	478	554	598	610	970	1,043	1,018	1,036	773	606	749	8,965
	Return													2/
	Consumptive Use													
City of Henderson														
Diversion at Lake Mead	Diversion 1/	13	12	29	97	331	437	614	502	477	353	56	58	2,979
Diversion at Saddle Island, Lake Mead	Diversion 3/	296	322	399	604	540	640	575	481	514	484	487	389	5,731
	Return													2/
	Consumptive Use													
Las Vegas Valley Water District														
Diversion at Saddle Island, Lake Mead	Diversion 1/	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
	Return													2/
	Consumptive Use													
Nevada State Department of Fish and Game														
Diversion at Saddle Island, Lake Mead	Diversion 3/	390	346	383	338	383	357	359	356	346	348	364	375	4,345
	Return	390	345	383	337	383	357	358	355	345	348	363	375	4,339
	Consumptive Use	0	1	0	1	0	0	1	1	1	0	1	0	6
Pacific Coast Building Products, Inc.														
Diversion at Gypsum Wash	Diversion	40	47	51	50	52	56	48	31	48	42	45	93	563
	Return													2/
	Consumptive Use													
City of North Las Vegas														
Diversion at Saddle Island, Lake Mead	Diversion 1/	66	130	315	653	999	1,360	1,338	1,023	986	733	324	359	8,286
	Return													2/
	Consumptive Use													

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WATER USER		JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Nellis Air Force Base														
Diversion at Saddle Island, Lake Mead	Diversion	95	94	159	196	257	293	298	235	222	182	107	89	2,227 2/
	Return													
	Consumptive Use													
Ramelli, William C.														
Lot No. 3, Sec. 13, T. 32 S., R. 66 E., MDB&M	Diversion													3 4/ 2/
	Return													
	Consumptive Use													
Southern California Edison Company														
Diversion at Pumping Plant in Sec. 24, T. 32 S., R. 66 E., MDB&M	Diversion	771	989	645	988	876	843	1,345	1,414	856	1,458	1,103	646	11,934 2/
	Return													
	Consumptive Use													
Wiebke, Armin T.														
Lot No. 1, Sec. 33, T. 32 S., R. 66 E., MDB&M (except W. 500' & E. 630')	Diversion													5 4/ 2/
	Return													
	Consumptive Use													
Portenier, Warren E.														
W½, Lot No. 1, Sec. 33, T. 32 S., R. 66 E., MDB&M	Diversion													42 4/ 2/
	Return													
	Consumptive Use													
Welles, John C.														
1 pump	Diversion													8 4/ 2/
E½, Lot No. 2, Sec. 33, T. 32 S., R. 66 E., MDB&M	Return													
	Consumptive Use													
Cavanaugh, Milton E.														
1 pump	Diversion													8 4/ 2/
W½, Lot No. 2, Sec. 33, T. 32 S., R. 66 E., MDB&M	Return													
	Consumptive Use													
LAS VEGAS WASH RETURN FLOWS	Returns	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
Nevada Totals	Diversion	5,865	5,643	6,385	9,520	11,479	13,264	15,629	14,715	14,711	13,746	10,664	8,845	130,532 2/
	Return	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 6/
	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 5/

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

V(B)

(ACRE - FEET)

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

NOTE: The term "Consumptive Use" in this tabulation means measured diversion including underground pumping less measured return flow and less 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 footnoted 4/.
6/ Estimate based on the percentage of Colorado River water used in the 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

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.

RELEASES OF MAINSTREAM WATER PURSUANT TO ORDERS V(C)

BUT NOT DIVERTED BY PARTY ORDERING SAME

AND

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

CALENDAR YEAR 1979

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	Ordered but not Diverted	215	780	895	1,365	1,101	899	1,345	1,075	1,603	438	877	651	11,244
Diversion at Headgate Rock Dam	Delivered to Mexico in Satifaction of Treaty	0	0	0	0	0	0	0	0	0	0	0	0	0
	Diverted by Others	38	161	103	268	258	171	252	637	599	184	83	361	3,115
	Delivered to Storage 2/	177	619	792	1,097	843	728	903	254	1,004	254	794	290	7,755
	Delivered to Mexico in Excess of Treaty	0	0	0	0	0	0	190	184	0	0	0	0	374
Yuma Proving Grounds U.S. Army	Ordered but not Diverted	0	0	0	0	0	0	0	0	0	0	0	0	0
Diversion at Imperial Dam 1/	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/	0	0	0	0	0	0	0	0	0	0	0	0	0
	Delivered to Mexico in Excess of Treaty	0	0	0	0	0	0	0	0	0	0	0	0	0
North Gila Valley Irrigation District	Ordered but not Diverted	1,597	500	434	702	605	710	801	783	670	861	428	982	9,073
Diversion at Imperial Dam	Delivered to Mexico in Satisfaction of Treaty	0	0	0	0	0	0	0	0	0	0	0	0	0
	Diverted by Others	131	143	46	321	63	359	242	389	399	89	145	313	2,640
	Delivered to Storage 2/	1,466	357	388	381	542	351	353	186	271	744	283	669	5,991
	Delivered to Mexico in Excess of Treaty	0	0	0	0	0	0	206	208	0	28	0	0	442
Warren Act Contractors	Ordered but not Diverted	0	0	0	0	0	0	0	0	0	0	0	0	0
Gila Project Districts	Delivered to Mexico in													
Diversion at Imperial Dam 1/	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/	0	0	0	0	0	0	0	0	0	0	0	0	0
	Delivered to Mexico in Excess of Treaty	0	0	0	0	0	0	0	0	0	0	0	0	0
Wellton-Mohawk I. & D.D.	Ordered but not Diverted	6,196	1,615	9,035	2,130	4,804	2,194	6,310	6,776	3,545	5,863	4,342	3,164	55,974
Diversion at Imperial Dam	Delivered to Mexico in Satisfaction of Treaty	0	0	0	0	0	0	0	0	0	0	0	0	0
	Diverted by Others	807	246	799	323	825	603	587	175	528	811	726	637	7,067
	Delivered to Storage 2/	5,389	1,369	7,175	1,807	3,979	1,591	3,718	2,241	3,017	4,840	3,616	2,527	41,269
	Delivered to Mexico in Excess of Treaty	0	0	1,061	0	0	0	2,005	4,360	0	212	0	0	7,638

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

V(C)

CALENDAR YEAR 1979

STATE OF ARIZONA

(ACRE - FEET)

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

AND

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

V(C)

CALENDAR YEAR 1979

STATE OF ARIZONA

(ACRE - FEET) Sheet 3 of 3

WATER USER		JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Cocopah Indian Reservation Diversion at Imperial Dam	Ordered but not Diverted	0	0	22	8	10	9	11	22	0	0	2	14	98
	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	8	7	5	8	8	5	0	0	1	9	51
	Delivered to Storage 2/	0	0	11	1	5	1	2	3	0	0	1	5	29
	Delivered to Mexico in Excess of Treaty	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	12,014	9,546	14,109	19,832	9,305	13,902	10,860	8,740	148,064
	Delivered to Mexico in Satisfaction of Treaty	0	0	0	0	0	0	0	0	0	0	0	0	0
	Diverted by Others	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
	Delivered to Storage 2/	13,841	4,740	13,412	5,293	8,837	5,310	6,668	4,909	6,165	11,309	7,818	5,542	93,844
	Delivered to Mexico in Excess of Treaty	0	0	1,777	0	0	0	3,236	12,208	0	483	0	0	17,704

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

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 CALIFORNIA

V(C)

(ACRE - FEET) Sheet 2 of 2

WATER USER		JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Coachella Valley Water District Diversion at Imperial Dam	Ordered but not Diverted	1,823	1,111	278	0	278	555	3,055	3,332	972	1,666	0	555	13,625
	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	Ordered but not Diverted	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
	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	1,904	681	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

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

V(C)

CALENDAR YEAR 1979

STATE OF CALIFORNIA

(ACRE - FEET) Sheet 1 of 2

WATER USER		JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTALS
Metropolitan Water District Diversion at Lake Havasu	Ordered but not Diverted	5,512	0	0	0	0	1,320	650	25	0	0	0	0	7,507
	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 1/	5,512	0	0	0	0	1,320	650	25	0	0	0	0	7,507
	Delivered to Mexico in Excess of Treaty	0	0	0	0	0	0	0	0	0	0	0	0	0
Palo Verde Irrigation District Diversion at Palo Verde Dam	Ordered but not Diverted	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 Satisfaction of Treaty	0	0	0	0	0	0	0	0	0	0	0	0	0
	Diverted by Others	0	250	746	391	375	208	516	109	167	296	1,236	165	4,459
	Delivered to Storage 1/	722	458	678	1,009	833	1,053	1,482	252	386	71	1,656	1,106	9,706
	Delivered to Mexico in Excess of Treaty	0	0	42	0	0	0	327	583	0	0	0	0	952
Yuma Project Reservation Division Bard Unit Diversion at Imperial Dam	Ordered but not Diverted	1,179	634	1,188	417	814	119	495	1,289	542	627	647	557	8,508
	Delivered to Mexico in Satisfaction of Treaty	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 1/	503	215	403	47	471	12	126	227	94	423	198	288	3,007
	Delivered to Mexico in Excess of Treaty	0	0	223	0	0	0	171	536	0	73	0	0	1,003
Yuma Project Reservation Division Indian Unit Diversion at Imperial Dam	Ordered but not Diverted	925	360	1,503	515	616	101	487	976	487	359	315	232	6,876
	Delivered to Mexico in Satisfaction of Treaty	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
	Delivered to Storage 1/	395	122	509	58	356	10	124	172	84	242	96	120	2,288
	Delivered to Mexico in Excess of Treaty	0	0	283	0	0	0	168	406	0	42	0	0	899
Imperial Irrigation District Diversion at Imperial Dam	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 Satisfaction of Treaty	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 1/	12,453	0	833	0	946	0	0	522	0	6,765	0	0	21,519
	Delivered to Mexico in Excess of Treaty	0	0	8,126	0	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

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 2/
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 1/ 3/

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

CALENDAR YEAR 1979

V(E)

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 1979

(ACRE - FEET)

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