

Eighty Second Annual Report

# Distribution of Waters of The Gila River

BY THE  
GILA WATER COMMISSIONER  
Patricia A. Doyle

TO THE  
UNITED STATES DISTRICT COURT  
In and For the District of Arizona

## 2017



# **EIGHTY SECOND ANNUAL REPORT**

**2017**

DISTRIBUTION OF WATERS OF THE GILA RIVER

By the

**GILA WATER COMMISSIONER**

Patricia A. Doyle

To the

UNITED STATES DISTRICT COURT

Safford, Arizona  
December 7<sup>th</sup> 2018

Honorable Susan R. Bolton  
Judge of the United States District Court  
Phoenix, Arizona

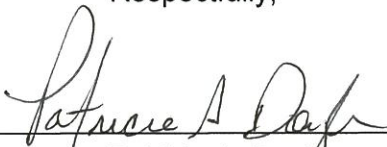
No. CV 31-0059-TUC-SRB  
aka Globe Equity No. 59

Re: United States of America  
vs.  
Gila Valley Irrigation District, et al.

Dear Judge Bolton:

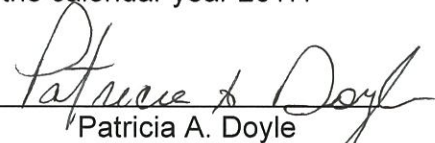
I submit herewith the Eighty-Second Annual Report in the above-entitled cause on distribution of waters of the Gila River, tabulation of hydro logic data, and analysis of expenditures and collections for the calendar year 2017.

Respectfully,

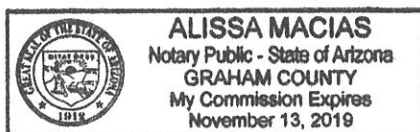
  
\_\_\_\_\_  
Patricia A. Doyle  
Gila Water Commissioner

State of Arizona        )  
                                  ) ss:  
County of Graham     )

I, Patricia A. Doyle, Gila Water Commissioner, hereby certify that the following is a true and correct record of distribution of waters of the Gila River for the calendar year 2017, to the best of my knowledge and belief. Furthermore, that the Financial Statement submitted herein is a true and accurate record of all receipts and disbursements for the calendar year 2017.

  
\_\_\_\_\_  
Patricia A. Doyle  
Gila Water Commissioner

Subscribed and sworn to before me this 7th day of December, 2018.



  
Notary Public

My commission expires: 11/13/19

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## Office Of The Gila Water Commissioner

207 W 5TH (HWY 70)  
Safford, Arizona 85546  
928-428-3220

### PERSONNEL

Patricia A. Doyle, Gila Water Commissioner	Safford, Arizona
B. Paul Curtis, Assistant Water Commissioner	Pima, Arizona
Casey L. Windsor, Water Specialist II	Safford, Arizona
Alissa Macias, Water Specialist II	Safford, Arizona

### SOURCES OF DATA

Stream flow data of the Gila River, its tributaries, and the San Carlos Reservoir data, (except evaporation and rainfall at San Carlos Reservoir), are provided by the United States Geological Survey, Arizona Water Science Center. James Leenhouts is the Acting Water Science Center Director.

Evaporation and rainfall recorded at San Carlos Reservoir are provided by San Carlos Irrigation Project. Ed Begay is the Project Manager.

Records of diversions of water in the Gila River System are provided by the following agencies: "Upper Valleys" - Gila Water Commissioner; San Carlos Indian Reservation - San Carlos Agency; Winkelman Valley - ASARCO Inc. and the Town of Kearny; San Carlos Irrigation Project.

The Gila Water Commissioner also provides information on the Internet, which includes text of the Gila Decree and the last 30 days of daily Call System Reports. The Home Page Address is <http://www.gilawater.org>

The vicinity of Cospers Crossing, in Duncan Valley, Arizona, is monitored daily, during periods that the Gila River is at low flow. The observer of Cospers Crossing is Robert Lunt, or designated aide.

### ACCURACY OF DATA AND COMPUTED RESULTS

The tables of canal diversions and river station discharges are rated in regards to general accuracy of the records. "Excellent" indicates that, in general, the daily records are accurate within 5 percent; "Good" within 10 percent; "Fair" within 15 percent. Records that do not meet that criteria are rated "Poor".

All U.S.G.S. data herein, are provisional and subject to revision. Other data herein, are not routinely revised unless significant errors must be resolved after publication.

Computer rounding was adopted on January 1, 1996, with general accuracy rated "excellent".

The data compiled in the Gila Water Commissioner's Monthly and Annual Reports may not coincide with values used in the computations of the Daily Call System. The Reports are based on mean daily values whereas; the Call System is calculated on instantaneous values.

## GRAPHICAL DIVISIONS

Administration of the Decree, follows the natural geographical divisions of the Gila Valley.

Decreed acreage for each is as follows:

Duncan-Virden division, known as **Franklin Valley** consists of 7,941.45 decreed acres; with lands in Hidalgo County, New Mexico and Greenlee County, Arizona. **Safford Valley**, 31,570.19 decreed acres, comprising lands in Graham County, Arizona, outside of the San Carlos Reservation. **San Carlos Agency**, 1,000 decreed acres, located above the San Carlos Reservoir. **Winkelman Valley**, located in Gila and Pinal Counties, Arizona, totaling 1,335.16 decreed acres are divided into 440.43 decreed acres with diversion rights from the Gila River, and 894.73 decreed acres are designated as pumping rights for industrial, municipal, and domestic use.

**San Carlos Project**, in Pinal County, Arizona, with water rights in the name of the United States of America aggregating 102,090.50 decreed acres as follows:

<u>San Carlos Project</u>	<u>Acres</u>
San Carlos Irrigation & Drainage District	50,000.00
Indian Lands	50,000.00
Natural Flow Lands	1,544.50
Federal Agencies	546.00
	102,090.50

The **Gila Crossing District**, under the Pima Agency at Sacaton, Arizona, has return flow rights for 2,992.50 acres.

The Total acreage under the Decree amounts to 146,929.79 acres.

## DISTRIBUTION OF WATERS

Total Capacity of San Carlos Reservoir	861,540 ac-ft
January 1, 2016, Stored water in the San Carlos Reservoir:	46,200 ac-ft
December 31, 2016 Stored water in San Carlos Reservoir:	57,625 ac-ft
Percent of total capacity.	6.69% ac-ft

Apportioned to the Upper Valleys, (Franklin and Safford Valley), 6.77 ac-ft

A total of 6.77 acre-feet of water was allocated for each acre then being irrigated.

The Total of San Carlos Irrigation Project apportioned acre-feet

of pumped and stored water for each acre. 2.48 ac-ft

The gravity diversions of both natural flow and stored water are shown on Plate 28.

The total water diverted from the Gila River under the Decree for the year: 316,151 ac-ft

Mean daily diversions of apportioned and priority water for each canal in the Duncan, Safford, Determination of when priority water was available is shown on plate 29.

## 2017 WATER SUPPLY

Total flow of the Gila River, as recorded at Gila River at Head of Safford Valley Near Solomon:	369,448 ac-ft
Total Inflow into the San Carlos Reservoir from the Gila River and the San Carlos River	366,919 ac-ft
Total water spilled and sluiced at Ahsurt-Hayden Dam:	34,025 ac-ft

### COSPER CROSSING

When the Gila River in the vicinity of Cosper Crossing was observed to be flowing the Duncan and Safford Valleys canal diversions were regulated on the same Date (year) of Priority. When the Gila River was observed to not be flowing or dry in the vicinity, the total Gila River flow in the Duncan Valley was issued to the Duncan/Virden Canals.

Date	Vicinity Condition	Verification		Date	Vicinity Condition	Verification
07/31/16	WET	REPORTED				
06/28/17	DRY	REPORTED				
07/22/17	WET	REPORTED				

### CONSUMPTIVE USE

The acre-feet consumptive use of water for the "Upper Valleys" as determined by the method set forth in Article VIII of the Decree is as follows:

2017	Gila River below Blue Creek (good)*	San Francisco River at Clifton (good)*	Total	Gila at Calva (poor)*	Consumptive use	Accumulated Consumptive use
Jan.	66,872	32,920	99,792	92,445	7,347	7,347
Feb.	85,170	48,397	133,567	137,814	-4,247	3,100
Mar.	30,556	23,169	53,725	48,358	5,367	8,467
Apr.	12,204	8,444	20,648	11,877	8,771	17,238
May	4,881	3,213	8,094	3,612	4,482	21,720
Jun.	1,808	1,150	2,958	1,115	1,843	23,563
Jul.	5,362	6,701	12,063	10,763	1,300	24,863
Aug.	9,663	15,454	25,117	17,018	8,099	32,962
Sep.	2,425	2,920	5,345	1,583	3,762	36,724
Oct.	2,204	2,670	4,874	2,959	1,915	38,639
Nov.	3,350	2,403	5,753	4,070	1,683	40,322
Dec.	4,878	2,881	7,759	7,568	191	40,513
<b>TOTALS</b>	<b>229,373</b>	<b>150,322</b>	<b>379,695</b>	<b>339,182</b>	<b>40,513</b>	<b>40,513</b>

# UPPER VALLEYS 2017 CONSUMPTIVE USE TRACKING

When Cumulative FLOW BALANCE during January, February and March is less than 7,000 acre-feet, it is recommended to regulate diversions during March, April and May, such that Consumptive Use is limited to 75,000 Ac-ft before the end of May; and 90,000 Ac-ft before the end of August. Flow Balance is shown ONLY as an indicator of potential consumptive use.

THIS TRACKING METHOD HAS NOT BEEN ADOPTED AS THE ONLY INDICATOR OR GUIDELINE IN PROJECTING  
ACTUAL CONSUMPTIVE USE under the Gila Decree

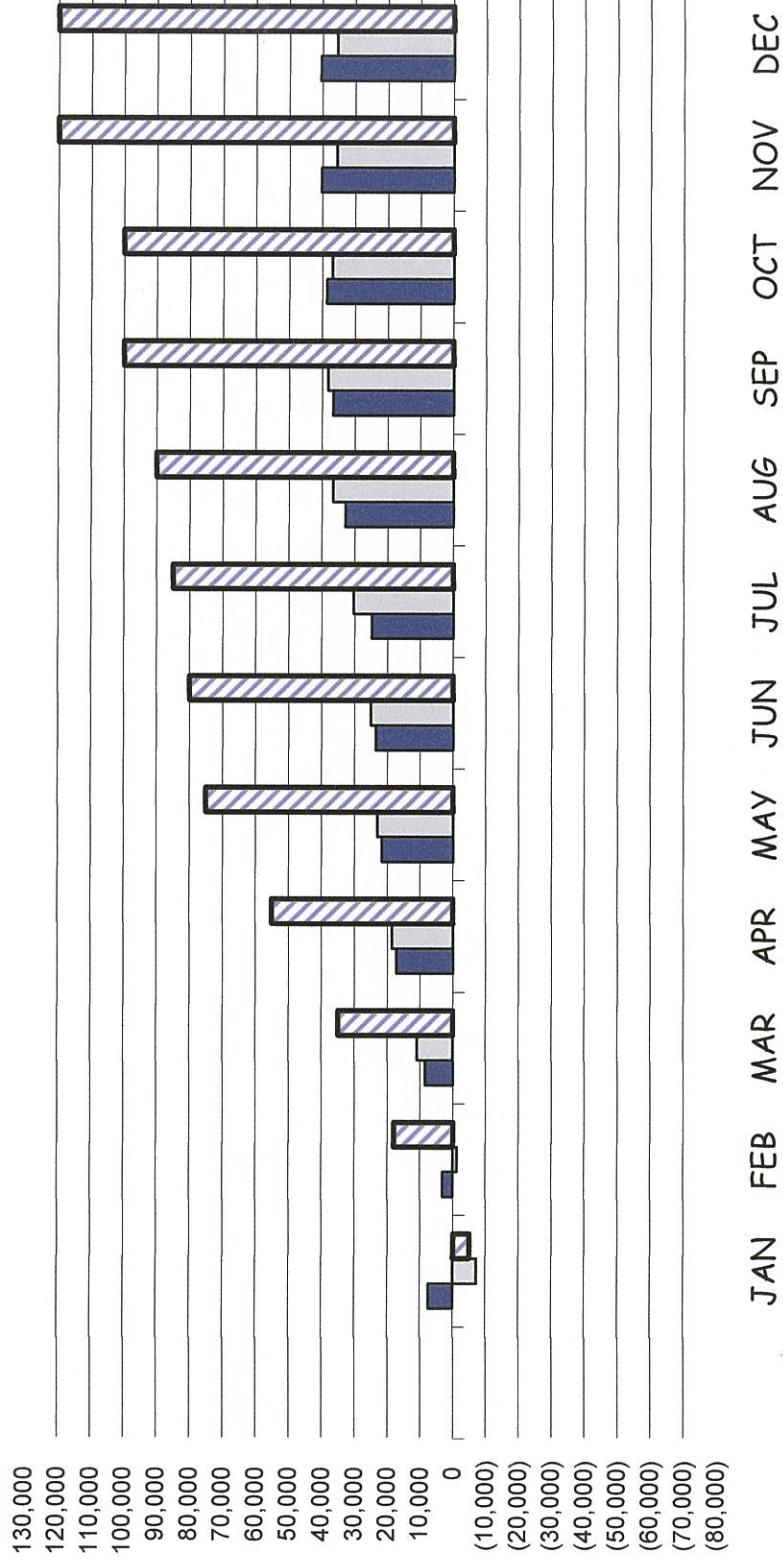
Input data rounded to USGS standards - IN ACRE-FEET

2017 MONTH	CONSUMPTIVE USE		UPPER VALLEYS and San Carlos Apache Tribe	HEAD OF SAFFORD VALLEY		FLOW BALANCE					ACCUM. FLOW BALANCE	TOTAL INFLOW Gila + SF	MAXIMUM CONSUMPTIVE USE RECOMMENDED	
	RESULT	ACCUM. RESULT		DIVERSIONS	ACCUM DIVS	GILA RIVER FLOW	GILA R. ACCUM FLOW	FLOW BALANCE	GILA CALVA	GILA VIRDEN				SAN FRANCISCO CLIFTON
JAN	7,347	7,347	138	138	90,781	90,781	(7,209)	92,445	66,872	32,920	138	-7,209	99,792	75,000
FEB	-4,247	3,100	1,656	1,794	132,795	223,576	5,903	137,814	85,170	48,397	1,656	-1,306	133,567	75,000
MAR	5,367	8,467	17,577	19,371	52,914	276,490	12,210	48,358	30,556	23,169	17,577	10,904	53,725	75,000
APR	8,771	17,238	16,514	35,885	20,004	296,494	7,743	11,877	12,204	8,444	16,514	18,647	20,648	75,000
MAY	4,482	21,720	8,958	44,843	7,418	303,912	4,476	3,612	4,881	3,213	8,958	23,123	8,094	75,000
JUN	1,843	23,563	3,886	48,729	3,164	307,076	2,043	1,115	1,808	1,150	3,886	25,166	2,958	80,000
JUL	1,300	24,863	6,507	55,236	12,314	319,390	5,207	10,763	5,362	6,701	6,507	30,373	12,063	85,000
AUG	8,099	32,962	14,416	69,652	24,149	343,539	6,317	17,018	9,663	15,454	14,416	36,690	25,117	90,000
SEP	3,762	36,724	5,319	74,971	5,732	349,271	1,557	1,583	2,425	2,920	5,319	38,247	5,345	100,000
OCT	1,915	38,639	693	75,664	5,108	354,379	(1,222)	2,959	2,204	2,670	693	37,025	4,874	100,000
NOV	1,683	40,322	311	75,975	6,113	360,492	(1,372)	4,070	3,350	2,403	311	35,653	5,753	120,000
DEC	191	40,513	120	76,095	8,957	369,449	(71)	7,568	4,878	2,881	120	35,562	7,759	120,000
<b>TOTALS</b>	<b>40,513</b>		<b>76,095</b>		<b>369,449</b>		<b>35,562</b>	<b>339,182</b>	<b>229,373</b>	<b>150,322</b>	<b>76,095</b>		<b>379,695</b>	
Graph	→ Consum. Use		Diversions								Flow Bal		River Flow	Max Cons Use

GRAPH: See graphic display on next page (4-2).



2017  
**CONSUMPTIVE USE RECOMMENDATIONS Vs CUMULATIVE FLOW  
 BALANCE**



■ Consum. Use   □ Flow Balance   ▨ Max Cons Use

# 2017

## MONTHLY RIVER FLOWS AND DIVERSIONS, GILA RIVER SYSTEM

Quantities in Acre-feet

	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Total
Gila Blue	66872	85170	30556	12204	4881	1808	5362	9663	2425	2203	3350	4878	229371
Duncan Valley Diversions	0	254	1771	2514	1778	598	797	1839	1055	693	311	67	11678
Gila River near Clifton	57238	80070	28190	10098	3314	1561	7175	8764	2268	2071	3242	5328	209318
San Fran. River @ Clifton	32920	48397	23169	8444	3213	1150	6701	15454	2919	2670	2403	2881	150321
Gila Solomon	90781	132795	52914	20004	7418	3164	12314	24149	5732	5108	6113	8957	369448
Safford Valley Diversions	138	1354	15740	13900	7110	3290	5708	12577	4264	0	0	0	64081
San Carlos Agency Divs.	0	48	65	100	70	0	0	0	0	0	0	53	337
Gila Calva	92445	137814	48358	11877	3612	1115	10763	17018	1583	2959	4070	7568	339182
San Carlos R. @ Peridot	23102	3227	618	60	0	0	698	0	0	0	0	0	27704
Stored Water	0	0	563	15057	23465	33803	29019	13652	21444	12211	7567	3166	159946
Gila Below Coolidge Dam	2664	8636	25573	27005	27077	34922	34547	23122	23030	15170	11643	8336	241725
Winkelman Divs. (Indust)	588	587	671	731	772	833	870	878	656	763	713	776	8838
Winkelman Divs. (Ag.)	0	0	0	0	0	0	0	0	0	0	0	0	0
Gila River @ Kelvin	20368	10749	23641	24429	24911	31809	42433	30119	25377	14184	10949	9019	268009
A-H Diversions	7821	9263	23106	24871	25158	29699	33120	25753	20778	13149	10249	8251	231218
A-H Spilled	21261	188	159	99	0	714	8420	2737	0	0	0	387	33965
A-H Sluiced	0	0	0	0	0	60	0	0	0	0	0	0	60
A-H Total	29082	9451	23265	24970	25158	30473	41540	28490	20778	13149	10249	8638	265243
Loss Kelvin to A-H	8694	-1298	-376	541	247	-1336	-893	-1629	-4599	-1035	-700	-381	-2766
Sacaton Diversions													0

### SUMMARY OF THE GILA RIVER SYSTEM

Quantities in Acre-feet

#### NATURAL FLOW FROM THE GILA RIVER AND TRIBUTARIES

**2017**

Gila River Below Blue Creek .....	229,371
San Francisco River at Clifton .....	150,321
San Carlos River near Peridot .....	27,704
Gain from Gila Below Coolidge Dam to Gila at Kelvin .....	26,284

#### INFLOWS, SAN CARLOS RESERVOIR

Gila River at Calva plus San Carlos River near Peridot .....	366,886
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#### GILA RIVER BELOW COOLIDGE DAM

241,725

#### CONTENTS IN STORAGE, SAN CARLOS RESERVOIR

Available contents January 1, 2017 .....	46,200
Available contents December 31, 2017.....	57,625

#### WATER DIVERTED FROM THE GILA RIVER

Duncan-Virden Valley canal diversions .....	11,678
Safford Valley canal diversions .....	64,081
San Carlos Apache Tribe .....	337
Winkelman Valley Agricultural diversions .....	0
<b>Winkelman Valley industrial and municipal pumps</b>	
ASARCO Incorporated .....	8,583
Town of Kearny .....	255
<b>San Carlos Project</b>	
Natural flow Ashurst-Hayden Dam .....	91,915
Stored water Ashurst-Hayden Dam .....	139,303
Natural flow Sacaton Dam .....	0
<b>TOTAL DIVERSIONS .....</b>	<b>316,151</b>

#### SPILLED AND SLUICED ASHURT- HAYDEN DAM

34,025

# SAN CARLOS RESERVOIR (SCR)

January 1, 2017 available stored water in the SCR acre-feet. (Plate 48)	47,689	ac-ft
Maximum storage for the year was March 27, 2017 (Plate 48)	243,151	ac-ft
Computed evaporation from the surface of the SCR (Plate 49)	37,486	ac-ft
Computed annual rainfall on SCR (Plate 50)	5,160	ac-ft
Computed bank storage for SCR (Plate 44).	82,771	ac-ft

In previous years, small flows recorded at Gila River below Coolidge Dam (Plate 40), when no water was being released were disregarded and are not shown on Determination of Priority (Plate 29), Natural Flow Releases (Plate 41), Stored Water Releases (Plate 42).

## APPORTIONMENTS MADE DURING 2017

Article VIII (2) of the Decree entered on June 29, 1935 provides that on the first day of January of each calendar year, or as soon thereafter as there is water stored in San Carlos Reservoir [the "Reservoir"], which is available for release from Coolidge Dam for conveyance to and diversion on the lands of the San Carlos Project, the Gila Water Commissioner shall apportion for the ensuing irrigation year to the Upper Valley Defendants [UVDs] an amount of water equal to the available storage [after appropriate deductions for losses] and shall permit the diversion of said amount of water from the natural flow of the Gila River for irrigation of the lands of the UVDs in disregard of the prior rights of the plaintiff but within the duty of water limitations of the Decree [6 acre-feet per acre during each irrigation season] and subject to the actual consumptive use limitation of Article VIII (2). Said Article VIII (2) further provides that the Commissioner shall make additional apportionments from time to time if and when water shall flow into the Reservoir and shall be stored there and become added to the available stored water in the Reservoir, which apportionments shall be made and calculated in the same manner as the first apportionment. [Articles IX and X of the Decree provide that when, under the rule and method of apportionment stated in Article VIII, there is apportioned to the UVDs amounts of water from the natural flow of the Gila River, there also shall be apportioned to the parties named in Articles IX and X, for the purposes therein specified, an amount of water per acre corresponding with the amount per acre apportioned to the UVDs under Article VIII.]

The Court has ordered that only lands then being irrigated [TBI] may receive natural flow of the Gila River. Therefore, in allocating the apportionments made in pursuant to Article VIII (2), the Commissioner allocates the water apportioned to the lands of the UVDs to the lands reported as TBI. Because the amount of acreage reported as TBI may change from time to time, when the TBI acreage changes, it is necessary and appropriate for the Commissioner to re-allocate the amount of water apportioned under Article VIII (2). However, the total amount of water calculated and apportioned pursuant to Article VIII (2) does not change unless there has also been an additional apportionment because of added stored water available for release in the Reservoir.

Notwithstanding the foregoing, diversions from the natural flow of the Gila River shall not exceed the duty of water limitations of the Decree or the limitations otherwise specified in Articles IX and X of the Decree.

Apportionments continued:

Apportionment	Effective	Reservoir Available	Adjusted T.B.I.	Apportionment	Re-Allocation	Accumulated
1	01/06/17	39,582	11,255.78	3.52		3.52
Reallocation No. 1 of 1	03/01/17	39,582	25,181.17		1.57	
2	03/01/17	131,066	25,181.17	5.2		6.77

The following apportionments of stored and pumped water, were made by the **San Carlos Irrigation Project**, based on a total of 100,546.00 decreed acres. TBI is not used by SCIP in its apportionments.

Number	Date	Decreed Acres	Acre-feet per Acre	Accumulated Apportionment	TBI Acreage	TBI Acre-feet per Acre
1	02/01/17	100,546.00	0.76	0.76	30,754.57	2.48
<b>TOTAL</b>						2.48

## SAN CARLOS RESERVOIR MINIMUM POOL

The Court filed an order on August 20, 1997, stipulating that a portion of the stored water in the San Carlos Reservoir would be retained in the reservoir in exchange for delivery of an equal amount of Central Arizona Project ("CAP") water to the San Carlos Irrigation Project. The retained water would accumulate concurrently with the amount of CAP water delivered to SCIP on a daily basis, less losses for evaporation & seepage. The retained water would not be available for apportionments to the Upper Valleys, and in case of spill from the San Carlos Reservoir, would be the first water to spill. The following chart tracks the accumulation of the minimum pool by the month. Daily figures were reported on the Daily Call System, and are available in the Commissioner's office:

Date	Acre-feet
January 1, 2017	8
January 31, 2017	8
February 28, 2017	8
March 31, 2017	8
April 30, 2017	8
May 31, 2017	7
June 30, 2017	7
July 31, 2017	7
August 31, 2017	6
September 30, 2017	6
October 31, 2017	6
November 30, 2017	6
December 31, 2017	6

## FREEPORT-McMORAN MORENCI, INCORPORATED

Freeport-McMoRan Corporation show the following information with quantities in acre-feet:

2017	NET BLACK RIVER WATER PUMPED	NET UPPER EAGLE CREEK WATER PUMPED	TOTAL IMPORTED WATER PUMPED	TOTAL FMI PUMPING FROM S. F. RIVER & EAGLE CREEK BASIN	TOTAL GILA WATERS PUMPED BY FREEPORT McMORAN
January	630	261	891	1,782	891
February	692	469	1,161	1,667	506
March	1,317		1,317	1,871	554
April	1,267	579	1,846	1,797	
May	1,243	1,067	2,310	2,018	
June	747	1,483	2,230	1,788	
July	468	1,969	2,437	2,421	
August	952	1,060	2,012	2,045	33
September	805	1,345	2,150	1,941	
October	427	1,719	2,146	1,895	
November	943	1,254	2,197	2,318	121
December	814	471	1,285	1,640	355
<b>TOTALS</b>	<b>10,305</b>	<b>11,677</b>	<b>21,982</b>	<b>23,183</b>	<b>2,460</b>
By-pass					
<b>TOTAL</b>					<b>2,460</b>

## **SAN CARLOS APACHE TRIBE FARMING REPORTS**

The Court, in its Water Quality Injunction, filed June 6, 1996, stipulated that the San Carlos Apache Tribe would report to the Water Commissioner on a monthly basis, the crops planted, dates of irrigation, the amount and source of water applied to the lands, the crop yield, the use of crops for grazing and any unusual problems occurring. The above-mentioned data for 2017 have been supplied to the Water Commissioner and summarized on Plate 5 of the 2017 yearly report.

## **LAND USE AUDITS, VIOLATIONS AND PENALTIES**

The Court, in its **Phase IV Memorandum and Order** dated March 25, 1996, directed the Water Commissioner to adopt a scheme for reporting and auditing lands "**then being irrigated**" and for correcting and penalizing violations. The Commissioner, as instructed, presented to the Court a reporting scheme and procedure to audit lands then being irrigated. On June 3, 1996, in its **Order on Water Quality Injunction and Related Matters**, the reporting scheme and auditing procedures were adopted by the Court.

Audits of lands being irrigated were made throughout the year of 2017. A summary of those audits can be found on Plate 2. Any actions taken and penalties consented to for violations of the TBI regulations can be found on Page 11.

## **GERONIMO STATION 2017**

The Seasonal Average Salinity on October 31, 2017 was **2,631** uS/cm. Daily data in support of the above figures can be found in the Water Commissioner's 2017 monthly reports or can be seen at the office of the Gila Water Commissioner.

OFFICE OF THE  
**GILA WATER COMMISSIONER**

P.O. Box 152  
SAFFORD ARIZONA 85548

Patricia A. Doyle  
GILA WATER COMMISSIONER  
Phone: (928) 428-3220

UNITED STATES DISTRICT COURT  
vs.  
GILA VALLEY IRRIGATION DISTRICT et al.  
Case No. CV31-59-TUC-SRB  
(a/k/a Globe Equity No. 59.)

**GILA RIVER @ GERONIMO STATION  
WATER QUALITY DATA  
2017**

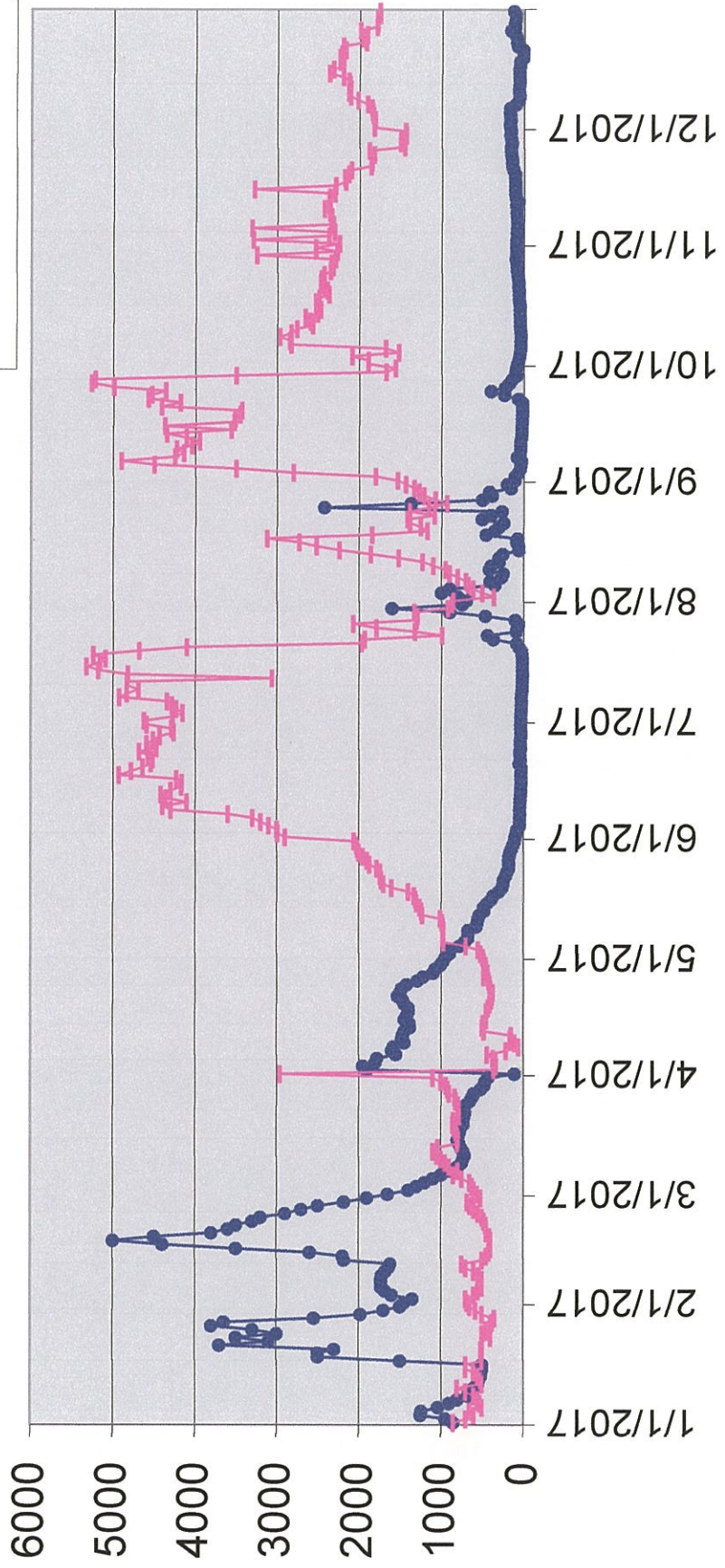
The following table for the year 2017 show daily flows and salinity at Geronimo Station

Any inconsistencies in the EC (uS/cm) readings may happen after sudden freshet occur in the Gila River. These sudden freshets dilute the salts in the river, causing the EC (uS/cm) readings to drop substantially low. The EC readings will remain low for a short period of time thereafter during the following low flows.





# WATER QUALITY DATA @ GERONIMO STATION



## WATER QUALITY ACTIONS TAKEN BY G.V.I.D.

To facilitate the monitoring of the salinity and flows at the Geronimo Station on a monthly basis the “**Water Quality Injunction**” dated June 3, 1996, instructed the Gila Valley Irrigation District to report, to the Water Commissioner, any steps taken to improve the water quality in the Gila River. The **Injunction** instructed the Water Commissioner to report, in her yearly report, any actions reported by the Gila Valley Irrigation District.

The Commissioner’s Office has not received letters for the months of January through December 2017, informing the Commissioner that no actions, other than the monitoring of the salinity at the head of the San Jose Canal and at the Geronimo Station were taken by the G.V.I.D to improve the water quality in the Gila River during the year 2017.

## SMALL PARCELS AND NON-AGRICULTURAL USES

The Court’s Final Memorandum and Order filed on September 18, 1992, and the Phase IV Memorandum and Order filed April 14, 1995, ordered that a set of Rules and Regulations be adopted in regards to lands then being irrigated. The Rules and Regulations (**Regulations for Reporting and Auditing Lands “Then Being Irrigated”**) were adopted by the Court in its Order dated June 3, 1996, and was implemented on April 1, 1997.

Section 5.1 (e) SMALL PARCELS and NON-AGRICULTURAL USES (less than two (2) acres), with in the Regulations for Reporting and Auditing Lands “Then Being Irrigated,” requires the Commissioner to summarize and report the acres involved, as soon as can be done in a monthly report (January 2017), and in the annual report filed with the Court.

The following is a summary of the acres taken from the forms that were submitted for small parcel lands “TBI” in 2017.

Location	Decreed Acres	Multiple use Acreage (lawns, trees, gardens, orchards & pastures) TBI	Yards Acres TBI	Garden Acres TBI	Orchard Acres TBI	Pasture Acres TBI	Commercial Acres TBI	TOTAL ACRES TBI
Duncan/Virden Valley	36.64	4.84	12.10	0.00	0.00	0.00	0.00	16.94
Safford Valley	430.99	187.88	0.50	1.09	13.27	25.22	1.90	229.86
Lower Valley SCIDD	19.20	14.08	0.00	0.00	0.00	1.00	0.00	15.08
<b>TOTAL</b>	<b>486.83</b>	<b>206.80</b>	<b>12.60</b>	<b>1.09</b>	<b>13.27</b>	<b>26.22</b>	<b>1.90</b>	<b>261.88</b>

The percent of Small Parcel TBI decreed lands irrigated in 2017 was 53.7 percent of the total Small Parcel decreed lands submitted to the Commissioner’s Office in 2017.

1 Patricia A. Doyle  
2 GILA WATER COMMISSIONER  
3 P.O. Box 152  
4 Safford, AZ 85548  
5 Telephone (928) 428-3220

6 UNITED STATES DISTRICT COURT  
7 FOR THE DISTRICT OF ARIZONA

8  
9 UNITED STATES OF AMERICA, )  
10 Plaintiff, and )  
11 GILA RIVER INDIAN COMMUNITY, )  
12 Plaintiff in Intervention and )  
13 SAN CARLOS APACHE TRIBE, )  
14 Plaintiff in Intervention, )  
15 vs. )  
16 GILA VALLEY IRRIGATION )  
17 DISTRICT, et al., )  
18 Defendants. )

Case No.: CV31-59-TUC-SRB  
(a/k/a Globe Equity No. 59)  
(Assigned to Hon. Susan R. Bolton)

REPORT OF GILA WATER  
COMMISSIONER OF ACTIONS  
TAKEN TO RESOLVE VIOLATIONS  
OF "THEN BEING IRRIGATED" (TBI)  
REGULATIONS IN CALENDAR  
YEAR 2017

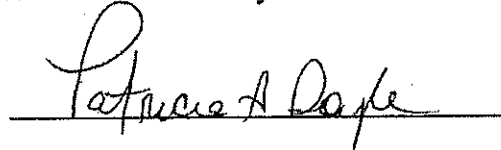
19  
20  
21 The Court in its Final Memorandum and Order dated September 18, 1992 and  
22 Phase IV Memorandum and Order dated April 14, 1995, ordered that TBI regulations be  
23 adopted. The TBI Regulations were approved and adopted by the court by order dated  
24 June 3, 1996. These Regulations require the Gila Water Commissioner to conduct  
25 periodic audits of lands under the Gila Decree to determine if any violations of the

1 Regulations have occurred. The Commissioner is authorized by the regulations to  
2 informally resolve violations as outlined in Section 4.1 of the Regulations. Pursuant to  
3 the Regulations the Commissioner shall file with the Court a written summation of the  
4 actions taken by the Commissioner to resolve such violations and the penalty assessed  
5 and consented to and shall include the summation in the Monthly Report next filed with  
6 the Court and in the Annual Report filed with the Court.

7 Pursuant to the Commissioner's audit of lands under the Gila Decree, violations of the  
8 TBI regulations in calendar year 2017 were determined and resolved as follows:

9 SEE ATTACHMENT "A" FOR SUMMATION OF VIOLATIONS AND  
10 RESOLUTIONS THEREOF:

11 Respectfully submitted this 6th day of June 2018.

12  
13 

14 Patricia A. Doyle  
15 Gila Water Commissioner  
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25

**Attachment "A"**

Pursuant to the Gila Water Commissioner's TBI audit procedure, the following is a summary of the results of the audit and investigation by the Gila Water Commissioner's Office of the apparent violations and the findings and action taken by the Commissioner for 2017:

**Franklin Valley Irrigation District (FID):**

2017 Decreed acreage reported:	6,744.75
2017 TBI acreage reported:	4,224.24
TBI acreage audited:	944.0
Percentage of TBI acreage audited for 2016:	22.35%
Crop Audit conducted twice annually	100%

Audit resulted in 0.00 acres in possible violation.

**Gila Valley Irrigation District (GVID):**

2017 Decreed acreage reported:	31,570.19
2017 TBI acreage reported:	22,560.28
TBI acreage audited:	3,490.55
Percentage of TBI acreage audited for 2017:	15.47%
Crop Audit conducted twice annually	100%

Audit resulted in 0.00 acres in possible violation.

Well data has been provided to the Commissioner for 2017 audited registered TBI hot lands. See attachment.

**San Carlos Irrigation & Drainage District (SCIDD):**

2017 Decreed acreage reported:	50,000.00
2017 TBI Acreage reported:	19,694.57
TBI acreage audited:	2,674.33
Percentage of TBI acreage audited for 2016:	13.58%

Audit resulted in 0.00 acres in possible violation.

**Gila River Indian community (GRIC):**

2016 Decreed acreage reported:	50,546.00
2016 TBI acreage reported:	18,361.17
TBI acreage audited:	4,537.85
Percentage of TBI acreage audited for 2016:	24.71%

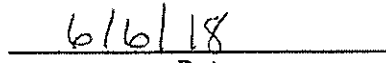
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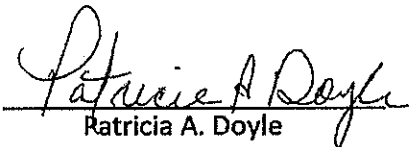
**San Carlos Apache Tribe (SCAR):**

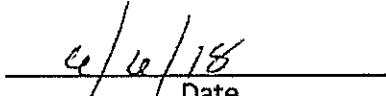
2016 Decreed acreage reported:	1,000.00
2016 TBI acreage reported:	285.20
TBI acreage audited:	285.20
Percentage of TBI acreage audited for 2016:	100%

Audit resulted in 0.00 acres in possible violation.

  
\_\_\_\_\_  
Alissa Macias  
Water Specialist II

  
\_\_\_\_\_  
Date

  
\_\_\_\_\_  
Patricia A. Doyle  
Water Commissioner

  
\_\_\_\_\_  
Date

Name	TWP	RNG	SEC	Total Decree AC	Total TBI AC	Total Non Decreed AC	Canal Company	Pump*
City of Safford	7	27	18	51.95	41	5.1	San Jose	GVID 4002
Larson, Marilyn P.	7	27	17	147.5	123.7	1.4	San Jose	GVID 4002
Claridge, Kenneth	7	27	17	192.3	166	19.9	San Jose	GVID 4002
Lines, Ruskin R.	7	25	10	44.1	38.6	1.4	Highline	GVID 4002
Platt, Rodney	7	25	12	126.5	120.65	2	Highline	GVID 4002
Householder, J.D. JDH Investment	7	25	13	75.8	73.2	2.3	Highline	GVID 4002
Howard, Ronald G. & Janice	6	25	29	84.8	75.6	0.8	Union	GVID 4002
Remo LLC	6	25	32	37.9	36.8	1	Union	GVID 4002
Layton and son	6	25	34	96	92.9	5.8	Union	GVID 4002
Church of Latter day saints	7	25	12	91.14	82.8	0.7	Union	GVID 4002
Claridge, Kenneth	7	26	15	114.1	106.6	23.1	Union	GVID 4002
Claridge, Edward and Kay	7	26	15	114.1	106.6	3.7	Union	GVID 4002
Mattice Land Company	7	26	15	133.14	122.1	22.4	Union	GVID 4002
YL Farms/ Justin Layton	6	24	13	46.4	38.2	0.9	Dodge	GVID 4002

\*See attached sheets for pump usage detail



GVID 4002 San Jose Canal  
 Lat 32.85847444  
 Long -109.54190809

Pump On	Pump Off	Days
3/14/2017 7:01	4/7/2017 9:46	24.114595
4/7/2017 9:51	4/7/2017 9:51	0.000162
4/7/2017 9:53	4/27/2017 5:42	19.826053
6/5/2017 5:12	7/9/2017 19:54	34.612778
7/9/2017 19:54	7/14/2017 15:49	4.829861
7/14/2017 15:50	7/15/2017 18:12	1.099063
7/15/2017 18:13	7/23/2017 16:05	7.911678
7/23/2017 16:06	7/23/2017 16:19	0.009306
7/23/2017 20:56	7/24/2017 13:56	0.708056
7/24/2017 14:39	7/24/2017 15:20	0.028391
8/6/2017 7:55	8/6/2017 7:56	0.000081
8/13/2017 5:33	8/16/2017 5:44	3.007847
9/2/2017 6:00	9/14/2017 10:59	12.207766

Totals Days 108.36

Totals GPM 1,050.00  
 In Gallons 163,833,722.50  
 In Acre Feet 502.79

**2017**

**SIGNIFICANT COURT ORDERS**

**Note: For a complete list of court orders, parties should access the Court for Case No. CV-31-0059-TUC-SRB which can be found at <http://www.azd.uscourts.gov/>**

**Date of Order**

**Order**

- |            |  |
|------------|--|
| 11/9/2017  | The court orders the following briefing schedule for the forfeiture counterclaims on remand from the Ninth Circuit for Applications 2008-115, 138, 147, 150, 151, 162.   |
| 12/12/2017 | The Court approves the 2018 General Operating Budget and the 2018 Settlement Budget and authorizes the included assessments.   |
| 12/20/17   | Applicants S&R Daley and Ronald G. and Janice A. Howard are granted a two-week extension of time up to and including January 18, 2018 to file their responses to the Counterclaims in Objections to Change of use Application numbers 2014-01 and 2014-02. |

**2017**  
**FINANCIAL STATEMENT**  
**WATER COMMISSIONER'S ACCOUNT**  
**RECEIPTS**

<u>Plaintiffs</u>	General	Settlement	Totals	
San Carlos Irrigation Project	\$499,222.55	\$82,693.31	\$581,915.86	
San Carlos Agency	\$4,890.00		\$4,890.00	
Gila Crossing	\$14,633.33	\$2,423.93	\$17,057.26	
	<u>\$ 518,745.88</u>	<u>\$ 85,117.24</u>	<u>\$ 603,863.12</u>	\$603,863.12
<u>Defendants</u>				
Gila Valley Irrigation District	\$154,378.23	\$25,571.85	\$179,950.08	
Franklin Irrigation District	\$18,995.94	\$3,146.57	\$22,142.51	
Sunset Ditch Company	\$11,950.67	\$1,979.56	\$13,930.23	
Model Canal Company	\$2,035.22	\$337.12	\$2,372.34	
ASARCO	\$19,124.15		\$19,124.15	
Town of Kearny	\$497.46		\$497.46	
York Valley & Winkelman Valley	\$1,792.72		\$1,792.72	
	<u>\$208,774.39</u>	<u>\$31,035.10</u>	<u>\$239,809.49</u>	\$239,809.49
Miscellaneous Receipts	\$0.00		\$0.00	
Interest Income	\$618.55		\$618.55	
Supplemental Reports	\$125.00		\$125.00	
Transfer Additional Fees	\$0.00		\$0.00	
	<u>\$743.55</u>		<u>\$743.55</u>	\$743.55
		<u>Total Receipts</u>		<u>\$844,416.16</u>

DISBURSEMENTS

	General	Settlement	Totals	
<u>Personnel</u>				
Patricia A. Doyle	\$93,081.00	\$6,000.00	\$99,081.00	
Paul Curtis	\$66,241.00	\$10,000.00	\$76,241.00	
Alissa Macias	\$47,104.00	\$6,000.00	\$53,104.00	
Casey Windsor	\$53,446.00	\$10,000.00	\$63,446.00	\$291,872.00
<u>Employer taxes and contributions</u>				
F. I. C. A.	\$18,697.59		\$18,697.59	
Medicare	\$4,372.83		\$4,372.83	
Federal Unemployment Tax	\$1,680.00		\$1,680.00	\$24,750.42
<u>Overtime Weekend</u>				
Casey Windsor	\$3,307.99		\$3,307.99	
Alissa Macias	\$2,530.97		\$2,530.97	
	<u>5,838.96</u>		<u>\$5,838.96</u>	\$5,838.96
<u>Employee Benefit Plan</u>				
Retirement	\$17,512.32		\$17,512.32	
Medical Insurance	\$38,102.05		\$38,102.05	
Copper Point Workman's comp	\$8,087.91		\$8,087.91	
Yearly Pension Plan Administration	1,450.00		\$1,450.00	
Charles Whetstone	66.00		\$66.00	
	<u>\$65,218.28</u>	<u>\$0.00</u>	<u>\$65,218.28</u>	\$65,218.28
<u>Travel plus Allowance</u>				
Patricia A. Doyle	\$2,706.12	\$1,330.67	\$4,036.79	
Paul Curtis	\$1,816.94	\$70.20	\$1,887.14	
Casey Windsor	\$2,586.83	\$0.00	\$2,586.83	
Alissa Macias	\$1,674.38	\$115.86	\$1,790.24	
	<u>\$8,784.27</u>	<u>\$1,516.73</u>	<u>\$10,301.00</u>	\$10,301.00
<u>Attorney Fees</u>				
2016 4th Quarter	\$68,520.00	\$0.00	\$68,520.00	
2017 Brent F. Moody	\$214,483.41	\$7,200.00	\$221,683.41	\$290,203.41
<u>Geronimo Station expenses</u>				
	\$21,779.63		\$21,779.63	
<u>Joint Funding (Stream flow records)</u>				
	\$116,540.00		\$116,540.00	
<u>Univeristy of Arizona</u>				
		\$2,600.00	\$2,600.00	\$140,919.63
<u>Capital Purchases</u>				
Computer and Software	\$839.50		\$839.50	
Database	\$3,989.41	\$12,938.49	\$16,927.90	
	<u>\$4,828.91</u>		<u>\$17,767.40</u>	\$17,767.40
<u>Expenses</u>				
Communications	\$1,200.00		\$1,200.00	
Insurance & Bonds	\$4,327.00		\$4,327.00	
Office Expenses	\$22,104.05	\$370.00	\$22,474.05	
Field Expenses	\$3,411.62	\$0.00	\$3,411.62	
Rent and Utilities	\$16,013.49		\$16,013.49	
Contingency Fund	\$0.00		\$0.00	
	<u>\$47,056.16</u>	<u>\$370.00</u>	<u>\$47,426.16</u>	\$47,426.16

<u>Total Disbursements</u>	\$894,297.26
<u>Total Receipts</u>	\$844,416.16
<u>Total Remaining</u>	(\$49,881.10)

## Land Use Audits 2017

### Attachment "A"

Pursuant to the Gila Water Commissioner's TBI audit procedure, the following is a summary of the results of the audit and investigation by the Gila Water Commissioner's Office of the apparent violations and the findings and action taken by the Commissioner for 2017:

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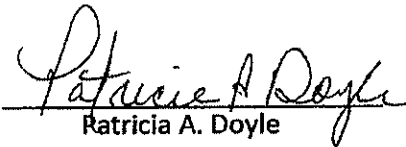
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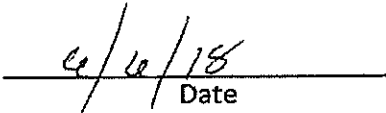
Alissa Macias  
Water Specialist II



Date



Patricia A. Doyle  
Water Commissioner



Date

# CALENDAR YEAR 2017

## GILA RIVER DECREED ACREAGES AND DIVERSIONS

<u>DUNCAN VALLEY CANALS</u>	<u>Acres</u>	<u>TBI Acres</u>	<u>Acre-feet</u>	<u>TBI a-f/a</u>
Sunset	2,759.90	2,037.50	6,380	3.13
New Model Valley	2,597.65	1,452.64	3,774	2.60
Colmenero	1,387.20	734.10	1,524	2.08
Sexton	441.00	0.00	0	0.00
R. Sexton	137.90	0.00	0	0.00
York	144.10	0.00	0	0.00
Albert	315.10	0.00	0	0.00
F E Ross	8.80	0.00	0	0.00
R K Davis	11.60	0.00	0	0.00
J H Brown	26.30	0.00	0	0.00
York Cattle	25.60	0.00	0	0.00
Laura Short	49.80	0.00	0	0.00
	36.50	0.00	0	0.00
<b>Totals</b>	<b>7,941.45</b>	<b>4,224.24</b>	<b>11,678</b>	<b>2.76</b>

Monthly modification of T.B.I. Acres are shown on diversion plates.

### SAFFORD VALLEY DIVERSIONS

Consolidated Brown	1,326.90	813.54	2,522	3.10
Fourness	210.70	161.40	367	2.27
San Jose	4,131.22	3,236.64	10,358	3.20
Montezuma	4,715.78	3,260.47	9,471	2.90
Union	7,220.84	4,808.09	12,935	2.69
Graham	4,217.68	3,445.15	7,373	2.14
Smithville	2,428.63	1,978.44	5,838	2.95
Dodge-Nevada	2,516.54	2,007.60	4,463	2.22
Curtis	1,971.70	1,595.34	6,926	4.34
Fort Thomas	2,624.30	1,253.61	3,828	3.05
Colvin-Jones	205.90	0.00	0	0.00
<b>Totals</b>	<b>31,570.19</b>	<b>22,560.28</b>	<b>64,081</b>	<b>2.84</b>

Monthly modification of T.B.I. Acres are shown on diversion plates.

### SAN CARLOS APACHE RESERVATION

Black Point	73.40	35.20	0	0.00
Bylas (Navajo Point)	152.20	179.00	25	0.14
Anderson Flat	85.80	71.00	311	4.39
Non-designated lands	688.60	0.00	0	0.00
<b>Totals</b>	<b>1,000.00</b>	<b>285.20</b>	<b>337</b>	<b>4.53</b>

Monthly modification of T.B.I. Acres are shown on diversion plates.

### WINKELMAN VALLEY

Industrial/Municipal (ASARCO) <sup>[1]</sup>	793.00	793.00	8,583	
Domestic/Municipal (Kearny, Arizona)	101.73	101.73	255	2.51
Farmlands	244.16	0.00	0	
J J Anderson	196.27	0.00	0	
<b>Totals</b>	<b>1,335.16</b>	<b>894.73</b>	<b>8,838</b>	<b>2.51</b>

Monthly modification of T.B.I. Acres are shown on diversion plates.

<u>UNITED STATES OF AMERICA</u>	<u>Acres</u>	<u>TBI Acres</u>		<u>Decreed</u>	<u>TBI</u>	
				<u>Duty a-f/a</u>	<u>Duty a-f/a</u>	
Indian lands (Alloted/Tribal):	50,000.00	18,361.17	Nat. flow	40,300	0.81	2.19
Federal Agencies	546.00	0.00	Stored	48,935	0.96	2.67
	50,546.00	18,361.17		89,235	1.77	4.86
<b>White Lands:</b>						
San Carlos Irrigation & Drainage Dist.	50,000.00	19,166.57	Nat. flow	33,032	0.66	1.72
			Stored	77,362	1.55	4.04
	50,000.00	19,166.57		110,394	2.21	5.76
<b>Natural Flow Lands</b>	1,544.50	528.00		251	0.16	0.48
	51,544.50	19,694.57		110,645	2.15	5.62
<b>Totals</b>	<b>102,090.50</b>	<b>38,055.74</b>		<b>199,880</b>	<b>1.96</b>	<b>5.25</b>
	102,090.50	38,055.74	Nat. flow	73,583	0.72	1.93
	100,546.00	38,055.74	Stored	126,297	1.24	3.32

Monthly modification of T.B.I. Acres are shown on diversions plates.

Diversions from Piaccho Reservoir are reflected above.

<sup>[1]</sup> Entitled to annual diversion of 16,221 acre-feet. (Article IX, et al 59)



**SAN CARLOS APACHE TRIBE FARM REPORT  
2017**

Anderson Flat

This annual farm report by the GWC is pursuant to the Courts Water Quality Injunction filed on June 3, 1998.  
All data reported is supplied by the San Carlos Apache Tribe unless shown otherwise.

Month	Field No	Crop	Date Planted	Acres Planted (TBI)	Dates Irrigated (From-To)	Gila River Diversions (ac-ft)	Average Water Quality (uS/cm)	Tribal Wells (ac-ft)	Water Quality (uS/cm)	Combined River & Wells	Comments or Unusual Problems
Jan	1047	None		0.00							No Water Activity 1/1-31/2017
	1048	None		0.00							No Water Activity 1/1-31/2017
	1049	None		0.00							No Water Activity 1/1-31/2017
	1050	None		0.00							No Water Activity 1/1-31/2017
Feb	1047	None		0.00							No Water Activity 2/1-28/2017
	1048	None		0.00							No Water Activity 2/1-28/2017
	1049	None		0.00							No Water Activity 2/1-28/2017
	1050	None		0.00							No Water Activity 2/1-28/2017
Mar	1047	None		41.40	3/11-20/17						No water activity from 3/1-10, 21-31/17
	1048	None		0.00							No Water Activity 3/1-31/2017
	1049	None		0.00	3/1-9/17						No water activity from 3/10-31/17
	1050	None		0.00							No Water Activity 3/1-31/2017
Apr	1047	None		27.20	4/1-17/17						No water activity from 4/18-30/17
	1048	None		0.00							No Water Activity 4/1-30/2017
	1049	None		0.00							No Water Activity 4/1-30/2017
	1050	None		0.00							No Water Activity 4/1-30/2017
May	1047	None		0.00							No Water Activity 5/1-31/2017
	1048	None		0.00							No Water Activity 5/1-31/2017
	1049	None		0.00							No Water Activity 5/1-31/2017
	1050	None		0.00							No Water Activity 5/1-31/2017
June	1047	None		0.00							No Water Activity 6/1-30/2017
	1048	None		0.00							No Water Activity 6/1-30/2017
	1049	None		0.00							No Water Activity 6/1-30/2017
	1050	None		0.00							No Water Activity 6/1-30/2017
July	1047	None		0.00							No Water Activity 7/1-31/2017
	1048	None		0.00							No Water Activity 7/1-31/2017
	1049	None		0.00							No Water Activity 7/1-31/2017
	1050	None		0.00							No Water Activity 7/1-31/2017
Aug	1047	None		0.00							No Water Activity 8/1-31/2017
	1048	None		0.00							No Water Activity 8/1-31/2017
	1049	None		0.00							No Water Activity 8/1-31/2017
	1050	None		0.00							No Water Activity 8/1-31/2017
Sept	1047	None		0.00							No Water Activity 9/1-30/2017
	1048	None		0.00							No Water Activity 9/1-30/2017
	1049	None		0.00							No Water Activity 9/1-30/2017
	1050	None		0.00							No Water Activity 9/1-30/2017
Oct	1047	None		0.00							No Water Activity 10/1-31/2017
	1048	None		0.00							No Water Activity 10/1-31/2017
	1049	None		0.00							No Water Activity 10/1-31/2017
	1050	None		0.00							No Water Activity 10/1-31/2017
Nov	1047	None		0.00							No Water Activity 11/1-30/2017
	1048	None		0.00							No Water Activity 11/1-30/2017
	1049	None		0.00							No Water Activity 11/1-30/2017
	1050	None		0.00							No Water Activity 11/1-30/2017
Dec	1047	None		0.00							No Water Activity 12/1-31/2017
	1048	None		0.00							No Water Activity 12/1-31/2017
	1049	None		0.00							No Water Activity 12/1-31/2017
	1050	None		0.00							No Water Activity 12/1-31/2017



**SAN CARLOS APACHE TRIBE FARM REPORT  
2017**

**Navajo Point**

This annual farm report by the GWC is pursuant to the Courts Water Quality Injection filed on June 3, 1988.  
All data reported is supplied by the San Carlos Apache Tribe unless shown otherwise.

Month	Field No	Crop	Date Planted	Acres Planted (TBI)	Dates Irrigated (From-To)	Gila River Diversions (ac-ft)	Water Quality (uS/cm)	Tribal Wells (ac-ft)	Water Quality (uS/cm)	Combined River & Wells	Comments or Unusual Problems
Jan	1041	None		0.00							No Water Activity 1/1-31/2017
	1043	None		0.00							No Water Activity 1/1-31/2017
	1044	None		0.00							No Water Activity 1/1-31/2017
	1046	None		0.00							No Water Activity 1/1-31/2017
Feb	1041	None		0.00							No Water Activity 2/1-28/2017
	1043	None		0.00							No Water Activity 2/1-28/2017
	1044	None		0.00							No Water Activity 2/1-28/2017
	1046	None		0.00							No Water Activity 2/1-28/2017
Mar	1041	None		0.00							No Water Activity 3/1-31/2017
	1043	None		0.00							No Water Activity 3/1-31/2017
	1044	None		0.00							No Water Activity 3/1-31/2017
	1046	None		0.00							No Water Activity 3/1-31/2017
April	1041	None		0.00	4/1-6/2017						No Water Activity 4/1-30/2017
	1043	None		0.00							No Water Activity 4/1-30/2017
	1044	None		0.00							No Water Activity 4/1-30/2017
	1046	None		0.00							No Water Activity 4/1-30/2017
May	1041	None		0.00							No Water Activity 5/1-31/2017
	1043	None		0.00							No Water Activity 5/1-31/2017
	1044	None		0.00							No Water Activity 5/1-31/2017
	1046	None		0.00							No Water Activity 5/1-31/2017
Jun	1041	None		0.00							No Water Activity 6/1-30/2017
	1043	None		0.00							No Water Activity 6/1-30/2017
	1044	None		0.00							No Water Activity 6/1-30/2017
	1046	None		0.00							No Water Activity 6/1-30/2017
July	1041	None		0.00							No Water Activity 7/1-31/2017
	1043	None		0.00							No Water Activity 7/1-31/2017
	1044	None		0.00							No Water Activity 7/1-31/2017
	1046	None		0.00							No Water Activity 7/1-31/2017
Aug	1041	None		0.00							No Water Activity 8/1-31/2017
	1043	None		0.00							No Water Activity 8/1-31/2017
	1044	None		0.00							No Water Activity 8/1-31/2017
	1046	None		0.00							No Water Activity 8/1-31/2017
Sept	1041	None		0.00							No water activity 9/1-30/2017
	1043	None		0.00							No water activity 9/1-30/2017
	1044	None		0.00							No water activity 9/1-30/2017
	1046	None		0.00							No water activity 9/1-30/2017
Oct.	1041	None		0.00							No water activity 10/1-31/2017
	1043	None		0.00							No water activity 10/1-31/2017
	1044	None		0.00							No water activity 10/1-31/2017
	1046	None		0.00							No water activity 10/1-31/2017
Nov	1041	None		0.00							No water activity 11/1-30/2017
	1043	None		0.00							No water activity 11/1-30/2017
	1044	None		0.00							No water activity 11/1-30/2017
	1046	None		0.00							No water activity 11/1-30/2017
Dec	1041	None		0.00							No water activity 12/1-31/2017
	1043	None		0.00							No water activity 12/1-31/2017
	1044	None		0.00							No water activity 12/1-31/2017
	1046	None		0.00							No water activity 12/1-31/2017

**SAN CARLOS APACHE TRIBE FARM REPORT  
2017**

Black Point

This annual farm report by the GWC is pursuant to the Courts Water Quality Injunction filed on June 3, 1998.  
All data reported is supplied by the San Carlos Apache Tribe unless shown otherwise.

Month	Field No	Crop	Date Planted	Acres Planted (TBI)	Dates Irrigated (From-To)	Gila River Diversions (ac-ft)	Water Quality (uS/cm)	Tribal Wells (ac-ft)	Water Quality (uS/cm)	Combined River & Wells	Comments or Unusual Problems
Jan	1021E	None		0.00							No Water Activity 1/1-31/2017
	1021W	None		0.00							No Water Activity 1/1-31/2017
	1022E	None		0.00							No Water Activity 1/1-31/2017
	1022W	None		0.00							No Water Activity 1/1-31/2017
Feb	1021E	None		0.00							No Water Activity 2/1-29/2017
	1021W	None		0.00							No Water Activity 2/1-29/2017
	1022E	None		0.00							No Water Activity 2/1-29/2017
	1022W	None		0.00							No Water Activity 2/1-29/2017
Mar	1021E	None		0.00							No Water Activity 3/1-31/2017
	1021W	None		0.00							No Water Activity 3/1-31/2017
	1022E	None		0.00							No Water Activity 3/1-31/2017
	1022W	None		0.00							No Water Activity 3/1-31/2017
Apr	1021E	None		0.00							No Water Activity 4/1-30/2017
	1021W	None		0.00							No Water Activity 4/1-30/2017
	1022E	None		0.00							No Water Activity 4/1-30/2017
	1022W	None		0.00							No Water Activity 4/1-30/2017
May	1021E	None		0.00							No Water Activity 5/1-31/2017
	1021W	None		0.00							No Water Activity 5/1-31/2017
	1022E	None		0.00							No Water Activity 5/1-31/2017
	1022W	None		0.00							No Water Activity 5/1-31/2017
June	1021E	None		0.00							No Water Activity 6/1-30/2017
	1021W	None		0.00							No Water Activity 6/1-30/2017
	1022E	None		0.00							No Water Activity 6/1-30/2017
	1022W	None		0.00							No Water Activity 6/1-30/2017
July	1021E	None		0.00							No water activity 7/1-31/2017
	1021W	None		0.00							No water activity 7/1-31/2017
	1022E	None		0.00							No water activity 7/1-31/2017
	1022W	None		0.00							No water activity 7/1-31/2017
Aug	1021E	None		0.00							No water activity 8/1-31/2017
	1021W	None		0.00							No water activity 8/1-31/2017
	1022E	None		0.00							No water activity 8/1-31/2017
	1022W	None		0.00							No water activity 8/1-31/2017
Sept	1021E	None		0.00							No water activity 9/1-30/2017
	1021W	None		0.00							No water activity 9/1-30/2017
	1022E	None		0.00							No water activity 9/1-30/2017
	1022W	None		0.00							No water activity 9/1-30/2017
Oct	1021E	None		0.00							No water activity 10/1-31/2017
	1021W	None		0.00							No water activity 10/1-31/2017
	1022E	None		0.00							No water activity 10/1-31/2017
	1022W	None		0.00							No water activity 10/1-31/2017
Nov	1021E	None		0.00							No water activity 11/1-30/2017
	1021W	None		0.00							No water activity 11/1-30/2017
	1022E	None		0.00							No water activity 11/1-30/2017
	1022W	None		0.00							No water activity 11/1-30/2017
Dec	1021E	None		0.00							No water activity 12/1-31/2017
	1021W	None		0.00							No water activity 12/1-31/2017
	1022E	None		0.00							No water activity 12/1-31/2017
	1022W	None		0.00							No water activity 12/1-31/2017



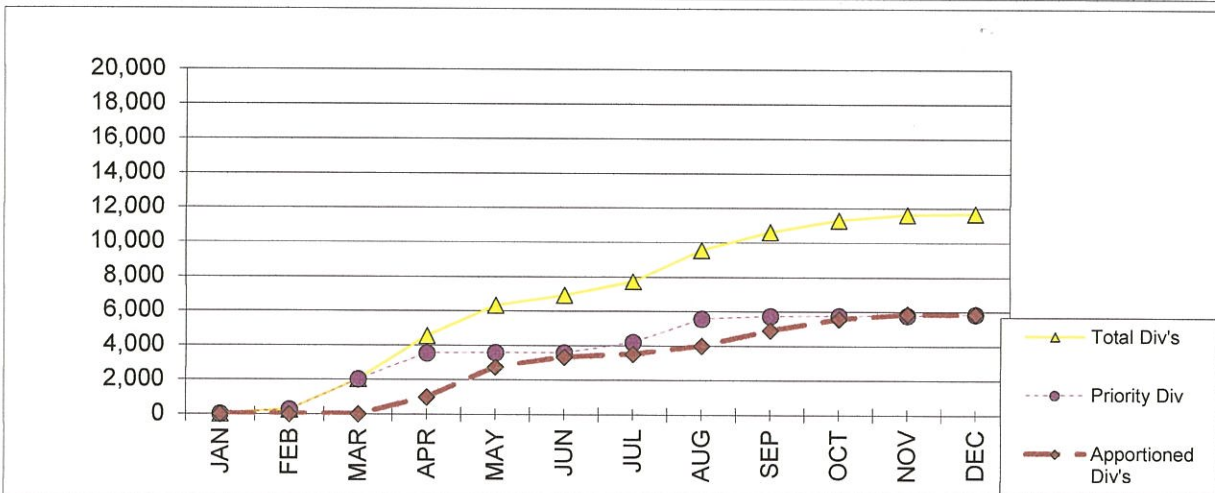
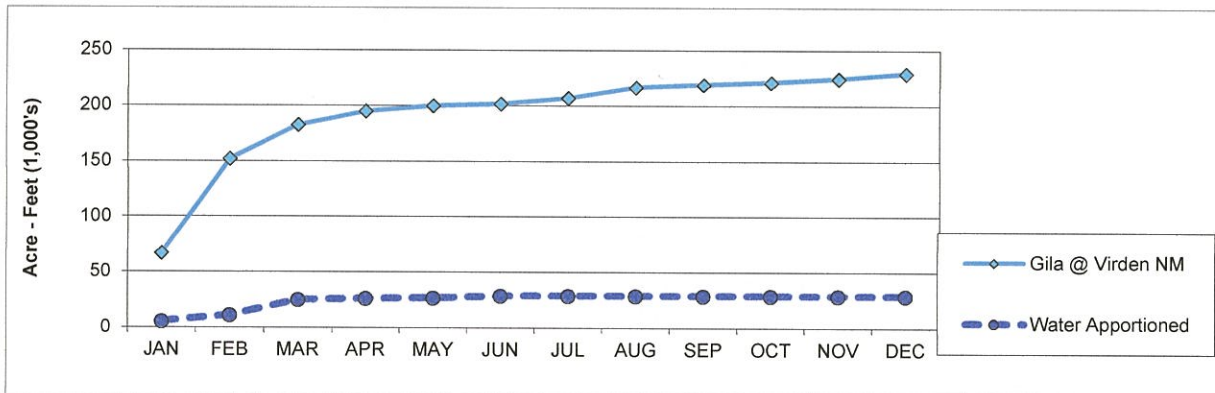
# 2017

## MASS DIAGRAM OF DUNCAN VALLEY DIVERSIONS, APPORTIONMENTS, & RIVER FLOWS

In Acre-Feet

Month	Monthly Gila River Below Blue Creek	Accumulated				Water AppORTioned
		Gila River Below Blue Creek	Total Diversions	Priority Diversions	AppORTioned Diversions	
JAN	66,872	66,872	0	0	0	5,337
FEB	85,170	152,042	254	254	0	11,019
MAR	30,556	182,598	2,025	2,024	1	24,887
APR	12,204	194,802	4,538	3,546	992	25,960
MAY	4,881	199,683	6,317	3,582	2,735	26,495
JUN	1,808	201,491	6,915	3,582	3,333	28,561
JUL	5,362	206,853	7,713	4,196	3,517	28,598
AUG	9,663	216,516	9,552	5,554	3,998	28,598
SEP	2,425	218,941	10,607	5,714	4,893	28,598
OCT	2,204	221,145	11,300	5,737	5,563	28,598
NOV	3,350	224,495	11,611	5,768	5,843	28,598
DEC	4,878	229,373	11,678	5,835	5,843	28,598

Graph: Gila near Virden, NM    Total Diversions    Priority Div's    AppORTion'd Div's    AppORTionments











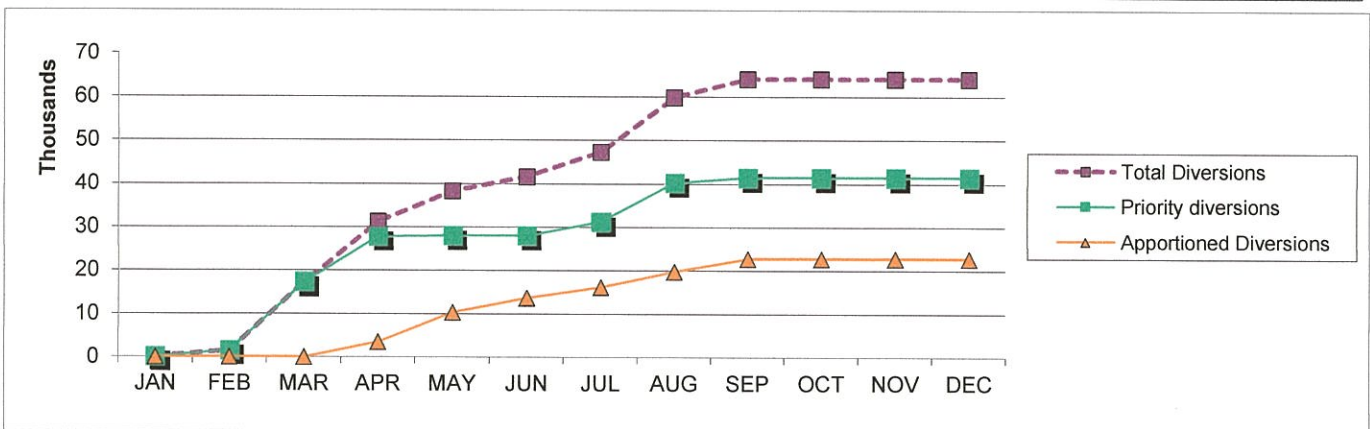
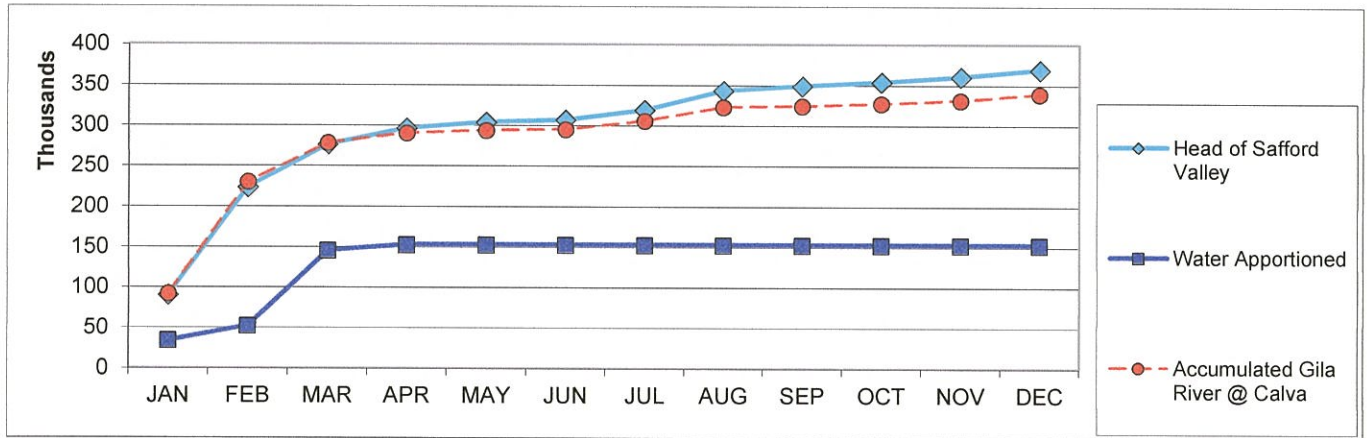


# 2017

## MASS DIAGRAM OF SAFFORD VALLEY DIVERSIONS, APPORTIONMENTS, & RIVER FLOWS

In Acre-Feet

Month	Monthly Gila River, Head of Safford Valley	Accumulated			Water Apportioned	Accumulated Gila River at Calva	Monthly Gila River at Calva
		Gila River, Head of Safford Valley	Total Diversions	Priority Diversions			
JAN	90,781	90,781	138	138		92,445	92,445
FEB	132,795	223,576	1,492	1,492		230,259	137,814
MAR	52,914	276,490	17,232	17,232		278,617	48,358
APR	20,004	296,494	31,133	27,731	3,402	290,494	11,877
MAY	7,418	303,912	38,243	27,927	10,316	294,106	3,612
JUN	3,164	307,076	41,531	27,927	13,604	295,221	1,115
JUL	12,314	319,390	47,240	31,151	16,089	305,984	10,763
AUG	24,149	343,539	59,817	40,171	19,646	323,002	17,018
SEP	5,732	349,271	64,081	41,408	22,673	324,585	1,583
OCT	5,108	354,379	64,081	41,408	22,673	327,544	2,959
NOV	6,113	360,492	64,081	41,408	22,673	331,614	4,070
DEC	8,957	369,449	64,081	41,408	22,673	339,182	7,568
Graph:	Gila at Head	Total Diversions	Priority Div's	Apportn'd Div's	Apportionments	Gila Calva	







2017

**FOURNESS CANAL: 210.70 Acres**

Mean daily diversions, cubic feet per second

DAY	JAN			FEB			MAR			APR			MAY			JUN		
	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport
1							1.9	1.9		2.0	2.0		2.0		2.0			
2							1.9	1.9		2.0	2.0		2.0		2.0			
3							1.9	1.9		2.0	2.0		2.0		2.0			
4							1.9	1.9		2.0	2.0		2.0		2.0			
5							1.9	1.9		2.0	2.0		2.0		2.0			
6							1.9	1.9		2.0	2.0		2.0		2.0			
7							1.9	1.9		2.0	2.0		2.0		2.0			
8							1.9	1.9		2.0	2.0		2.0		2.0			
9							1.9	1.9		2.0	2.0		2.0		2.0			
10							1.9	1.9		2.0	2.0		2.0		2.0			
11							1.9	1.9		2.0	2.0		2.0		2.0			
12							1.9	1.9		2.0	2.0		2.0		2.0			
13							1.9	1.9		2.0	2.0		2.0		2.0			
14							1.9	1.9		2.0	2.0		2.0		2.0			
15							1.9	1.9		2.0	2.0		2.0		2.0			
16							1.9	1.9		2.0	2.0		2.0		2.0			
17							1.9	1.9		2.0	2.0		2.0		2.0			
18							1.9	1.9		2.0		2.0	2.0		2.0			
19							1.9	1.9		2.0	2.0		2.0		2.0			
20							1.9	1.9		2.0		2.0	2.0		2.0			
21							1.9	1.9		2.0	1.9		2.0	0.8		0.8		
22							1.9	1.9		2.0		2.0						
23							1.9	1.9		2.0		2.0						
24				1.9	1.9		1.9	1.9		2.0		2.0						
25				1.9	1.9		1.9	1.9		2.0		2.0						
26				1.9	1.9		1.9	1.9		2.0		2.0						
27				1.9	1.9		1.9	1.9		2.0		2.0						
28				1.9	1.9		1.9	1.9		2.0		2.0						
29							1.9	1.9		2.0		2.0						
30							1.9	1.9		2.0		2.0						
31							1.9	1.9		2.0		2.0						
<b>Total</b>				9.5	9.5		58.9	58.9		60.0	36.0	24.0	40.8		40.8			
Acre-feet					19			117			119			81				
Priority Diverted					19			117			71							
Apport Diverted											48			81				
Appor diverted to date											48			129				129
TBI acreage	153.60			153.60			153.60			161.40			161.40			161.40		161.40
Apportioned	541			541			1,040			1,093			1,093			1,093		1,093
Duty					0.12			0.76			0.74			0.50				

DAY	JUL			AUG			SEP			OCT			NOV			DEC			Totals
	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport	
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22		1.0	1.0																
23		2.0		2.0															
24		2.0	2.0																
25		2.0	2.0																
26		2.0	2.0																
27		2.0	2.0																
28		2.0	2.0																
29		2.0	2.0																
30		0.5	0.5																
31																			
<b>Total</b>	15.5	13.5	2.0																
Acre-feet		31																	367
Priority Diverted		27																	234
Apport Diverted		4																	133
Appor diverted to date		133			133			133			133			133			133		133
TBI acreage	161.40			161.40			161.40			161.40			161.40			161.40			161.40
Apportioned	1,093			1,093			1,093			1,093			1,093			1,093			1093
Duty		0.19																	2.27











# 2017

## DODGE-NEVADA CANAL: 2,516.54 Acres

Mean daily diversions, cubic feet per second

DAY	JAN			FEB			MAR			APR			MAY			JUN		
	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport
1							24.5	24.5		18.1	18.1							
2							24.5	24.5		18.1	18.1							
3							24.5	24.5		18.1	18.1							
4							24.5	24.5		18.1	18.1							
5							24.5	24.5		18.1	18.1							
6							24.5	24.5		18.1	14.2	3.9	13.1		13.1			
7							24.5	24.5		18.1	18.1		16.5		16.5			
8							24.5	24.5		21.8	12.8	9.0	15.5		15.5			
9							23.0	23.0		23.6	22.1	1.5	12.9		12.9			
10							22.1	22.1		23.6	19.9	3.7	12.9		12.9			
11							22.1	22.1		23.6	12.8	10.8	12.9		12.9			
12							22.1	22.1		21.9	12.8	9.1	12.9		12.9			
13							22.1	22.1		21.0	12.6	8.4	12.9		12.9			
14							22.1	22.1		21.0	11.7	9.3	12.9		12.9			
15							22.1	22.1		21.0	14.2	6.8	12.9		12.9			
16							22.1	22.1		21.0	12.8	8.2	12.9		12.9			
17							22.1	22.1		21.0	11.9	9.1	7.0		7.0			
18							21.1	21.1		21.0	9.7	11.3						
19							18.1	18.1		21.0	11.2	9.8						
20							18.1	18.1		21.0	7.1	13.9						
21							18.1	18.1		21.0	6.2	14.8						
22							18.1	18.1		21.0	5.3	15.7						
23				15.6	15.6		18.1	18.1		21.0	9.7	11.3						
24				24.5	24.5		18.1	18.1		21.0	4.4	16.6						
25				24.5	24.5		18.1	18.1		21.0	7.1	13.9						
26				24.5	24.5		18.1	18.1		21.0	2.6	18.4						
27				24.5	24.5		18.1	18.1		21.0	1.0	20.0						
28				24.5	24.5		18.1	18.1		11.4	4.4	7.0						
29							18.1	18.1										
30							18.1	18.1										
31							18.1	18.1										
Total				138.1	138.1		652.2	652.2		567.6	335.1	232.5	157.3		157.3			
Acre-feet				274			1,294			1,126			312					
Priority Diverted				274			1,294			665								
Apport Diverted										461			312					
Appor diverted to date										461			773			773		
TBI acreage	1,526.70			1,960.90			1,996.60			2,007.60			2,007.60			2,007.60		
Apportioned	5,374			6,902			13,517			13,591			13,591			13,591		
Duty				0.14			0.65			0.56			0.16					

DAY	JUL			AUG			SEP			OCT			NOV			DEC			Totals
	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport	
1				15.0	15.0		15.0	6.2	8.8										
2				15.0	15.0		15.0		15.0										
3				15.0	15.0		15.0	4.4	10.6										
4				15.0	15.0		15.0	4.4	10.6										
5				15.0	15.0		12.0	4.4	7.6										
6				15.0	15.0		3.9	3.9											
7				15.0	11.7	3.3	3.9	1.0	2.9										
8				15.0	11.7	3.3	3.9		3.9										
9				15.0	8.9	6.1	3.9	3.5	0.4										
10				15.0	11.5	3.5	3.9	0.8	3.1										
11				15.0	11.5	3.5	3.9	1.5	2.4										
12				15.0	11.5	3.5	1.3	1.3											
13				15.0	15.0														
14				15.0	15.0														
15				15.0	15.0														
16				15.0	15.0														
17	2.3		2.3	15.0	15.0														
18	4.6		4.6	15.0	15.0														
19	6.4		6.4	15.0	11.2	3.8													
20	8.2	4.4	3.8	15.0	6.2	8.8													
21	9.7		9.7	15.0	12.6	2.4													
22	11.3	11.3		15.0	11.5	3.5													
23	11.5	7.1	4.4	15.0	10.7	4.3													
24	13.7	13.7		15.0	8.0	7.0													
25	15.0	15.0		15.0	15.0														
26	15.0	15.0		15.0		15.0													
27	15.0	15.0		15.0		15.0													
28	15.0	15.0		15.0	4.4	10.6													
29	15.0	15.0		15.0	5.3	9.7													
30	15.0	15.0		15.0	7.1	7.9													
31	15.0	15.0		15.0	15.0														
Total	172.7	141.5	31.2	465.0	338.8	126.2	96.7	31.4	65.3										
Acre-feet	343			922			192						4,463			4,463			
Priority Diverted	281			672			62						3,248			3,248			
Apport Diverted	62			250			130						1,215			1,215			
Appor diverted to date	835			1,085			1,215			1,215			1,215			1,215			
TBI acreage	2,007.60			2,007.60			2,007.60			2,007.60			2,007.60			2,007.60			
Apportioned	13,591			13,591			13,591			13,591			13,591			13,591			
Duty				0.46			0.10												

2017

CURTIS CANAL: 1,971.70 Acres

Mean daily diversions, cubic feet per second

DAY	JAN			FEB			MAR			APR			MAY			JUN		
	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport
1	7.8	7.8					15.1	15.1		18.4	18.4		17.9		17.9	8.4		8.4
2	5.2	5.2					17.7	17.7		19.0	19.0		17.6	0.3	17.3	8.8		8.8
3							17.7	17.7		19.1	19.1		17.9		17.9	8.6		8.6
4							17.6	17.6		19.1	19.1		19.2		19.2	8.6		8.6
5							17.9	17.9		18.8	18.8		17.2		17.2	8.6		8.6
6							18.0	18.0		19.7	19.4	0.3	17.4		17.4	7.8		7.8
7							19.0	19.0		19.8	19.8		18.3		18.3	7.0		7.0
8							18.7	18.7		21.0	18.9	2.1	18.5		18.5	10.3		10.3
9							18.5	18.5		19.2	19.2		18.8		18.8	10.3		10.3
10							19.8	19.8		19.3	19.3		18.9		18.9	15.9		15.9
11							18.3	18.3		20.4	19.3	1.1	18.8		18.8	16.0		16.0
12							15.3	15.3		19.6	19.3	0.3	18.8		18.8	15.6		15.6
13							15.6	15.6		18.3	18.3		18.4		18.4	14.2		14.2
14							16.6	16.5		19.8	16.5	3.3	17.8		17.8	13.3		13.3
15							17.8	17.8		20.2	19.4	0.8	18.1		18.1	13.7		13.7
16							18.1	18.1		19.2	18.9	0.3	17.8		17.8	13.6		13.6
17							17.4	17.4		19.2	16.6	2.6	17.2		17.2	13.1		13.1
18							17.7	17.7		19.0	18.2	2.8	16.9		16.9	12.5		12.5
19							17.1	17.1		19.3	16.5	2.8	16.2		16.2	10.8		10.8
20							16.6	16.6		19.1	13.8	5.5	15.8		15.8	8.4		8.4
21							17.5	17.5		19.0	12.5	6.5	15.2		15.2	6.1		6.1
22							17.8	17.8		18.7	10.4	8.3	14.7		14.7	5.6		5.6
23							17.5	17.5		18.7	16.2	2.5	9.6		9.6	4.3		4.3
24							17.0	17.0		18.8	3.9	14.7	9.8		9.8	2.4		2.4
25							18.7	18.7		18.8	13.6	5.2	9.5		9.5	8.1		8.1
26							24.1	24.1		19.2	0.3	18.9	9.8		9.8	10.4		10.4
27				9.5	9.5		18.4	18.4		18.8		18.8	9.5		9.5	11.7		11.7
28				15.7	15.7		16.7	16.7		18.5	3.9	14.6	9.5		9.5	11.0		11.0
29							17.3	17.3		18.3	10.4	7.9	9.7		9.7	10.8		10.8
30							17.0	17.0		18.4		18.4	9.5		9.5	10.3		10.3
31							17.7	17.7					9.0		9.0			
Total	13.0	13.0		25.2	25.2		550.1	550.1		574.5	436.8	137.7	473.3	0.3	473.0	305.2		305.2
Acre-feet		26			50			1,091			1,140			939		607		
Priority Diverted		26			50			1,091			866			1				
Apport Diverted											273			938		607		
Apport diverted to date											273			1,211		1,815		
TBI acreage		1,287.84			1,287.84			1,531.64			1,595.34			1,595.34		1,595.34		
Apportioned		4,533			4,533			10,369			10,800			10,800		10,800		
Duty		0.02			0.04			0.71			0.71			0.59		0.38		

DAY	JUL			AUG			SEP			OCT			NOV			DEC			Totals
	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport	
1	9.8		9.8	29.3	29.3		18.3	12.5	5.8										
2	9.4		9.4	29.3	29.3		17.4		17.4										
3	8.5		8.5	29.5	29.5		17.7	3.9	13.8										
4	7.4		7.4	28.2	28.2		19.3	3.9	15.4										
5	10.7		10.7	26.7	26.7		16.9	3.9	13.0										
6	14.6		14.6	25.4	25.4		15.1	3.9	11.2										
7	15.7		15.7	24.3	16.5	7.8	13.8		13.8										
8	16.1		16.1	27.3	16.5	10.8	15.6		15.6										
9	15.6		15.6	29.3	15.2	14.1	14.8	1.1	13.7										
10	17.0		17.0	30.1	18.5	13.8	17.3		17.3										
11	14.5		14.5	28.3	16.5	11.8	16.2		16.2										
12	10.1		10.1	30.2	15.5	13.7	14.7	0.3	14.4										
13	9.6		9.6	31.0	31.0		12.5		12.5										
14	8.2		8.2	29.6	29.6		11.0		11.0										
15	8.8		8.8	27.8	27.8														
16	10.1		10.1	26.0	26.0														
17	16.3		16.3	27.9	27.9														
18	15.5		15.5	30.4	19.4	11.0													
19	15.2		15.2	30.5	16.5	14.0													
20	15.5	3.9	11.6	29.9	12.5	17.4													
21	18.3		18.3	29.7	18.9	10.8													
22	19.1	19.1		29.5	16.5	13.0													
23	18.1	13.6	4.5	28.6	16.5	12.1													
24	18.1	18.1		27.3	14.7	12.6													
25	18.0	18.0		27.5	19.4	8.1													
26	18.8	18.8		27.3		27.3													
27	18.2	18.2		24.6		24.6													
28	19.7	19.7		27.2	3.9	23.3													
29	18.8	18.8		30.1	10.4	19.7													
30	16.9	16.9		30.0	13.6	16.4													
31	14.6	14.6		29.2		29.2													
Total	447.2	179.7	287.5	882.0	570.7	311.3	220.6	29.5	191.1										
Acre-feet		887			1,740			438											6,926
Priority Diverted		356			1,132			59											3,581
Apport Diverted		531			617			379											3,345
Apport diverted to date		2,349			2,966			3,345			3,345			3,345		3,345			3,345
TBI acreage		1,595.34			1,595.34			1,595.34			1,595.34			1,595.34		1,595.34			1,595.34
Apportioned		10,800			10,800			10,800			10,800			10,800		10,800			10,800
Duty		0.56			1.10			0.27											4.34

Diversions from North side of Gila River in SW 1/4 SW 1/4, Sec. 7, T. 6S, R. 28E. Water-stage recorder and 6 ft Parshall flume located in NW 1/4 SE 1/4, Sec. 12, T. 6S, R. 24E.

Record Good

# 2017

## FT. THOMAS CANAL: 2,624.30 Acres

Mean daily diversions, cubic feet per second

DAY	JAN			FEB			MAR			APR			MAY			JUN		
	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport
1	5.9	5.9					14.4	14.4		15.0	14.7	0.3	9.4	0.5	8.9	5.4	5.4	5.4
2	2.9	2.9					15.2	15.2		14.3	14.3		9.4	0.5	8.9	5.2	5.2	5.2
3							15.3	15.3		13.9	13.6	0.3	9.4		9.4	5.4	5.4	5.4
4							15.6	15.6		13.9	13.0		9.4		9.4	5.3	5.3	5.3
5							15.6	15.6		13.9	13.9		9.1		9.1	5.1	5.1	5.1
6							15.6	15.6		13.9	12.9	1.0	8.7		8.7	5.2	5.2	5.2
7							15.6	15.6		13.8	13.8		8.4		8.4	5.3	5.3	5.3
8							15.6	15.6		13.7	11.1	2.6	8.6		8.6	5.5	5.5	5.5
9							15.6	15.6		13.7	13.7		11.7		11.7	5.1	5.1	5.1
10							15.6	15.6		13.6	13.6		13.0		13.0	4.6	4.6	4.6
11							15.6	15.6		13.7	11.4	2.3	12.7		12.7	4.5	4.5	4.5
12							15.6	15.6		13.6	11.2	2.4	11.8		11.8	4.3	4.3	4.3
13							15.6	15.6		13.6	11.1	2.5	11.3		11.3	4.5	4.5	4.5
14							15.3	15.3		13.6	6.2	7.4	11.6		11.6	4.3	4.3	4.3
15							15.3	15.3		13.6	12.9	0.7	12.9		12.9	3.5	3.5	3.5
16							15.6	15.6		13.9	11.1	2.8	14.2	0.2	14.0	3.1	3.1	3.1
17							15.8	15.8		13.8	9.4	4.4	11.9		11.9	3.1	3.1	3.1
18							15.8	15.8		13.9	2.8	11.1	9.2		9.2	1.4	1.4	1.4
19							16.0	16.0		13.8	2.8	11.0	9.1		9.1			
20							15.5	15.5		13.8	2.4	11.4	7.8		7.8			
21							15.0	15.0		13.8	1.9	11.9	6.6		6.6			
22							15.0	15.0		13.7	1.9	11.8	4.2		4.2	3.6	3.6	3.6
23							15.2	15.2		13.8	2.8	11.0	1.5		1.5	5.9	5.9	5.9
24							6.7	6.7		14.0	1.2	12.8	1.5		1.5	6.2	6.2	6.2
25							10.8	10.8		13.9	2.4	11.5	1.4		1.4	6.4	6.4	6.4
26							10.8	10.8		14.6	14.6		13.8	0.5	13.3	1.8	1.8	1.8
27							13.5	13.5		15.1	15.1		13.6	0.5	13.1	2.2	2.2	2.2
28							14.6	14.6		15.0	15.0		11.1	1.2	9.9	2.2	2.2	2.2
29										15.0	15.0		9.6	1.9	7.7	2.2	2.2	2.2
30										15.0	15.0		9.5	0.5	9.0	2.2	2.2	2.2
31										15.0	15.0		4.5		4.5	5.4	5.4	5.4
<b>Total</b>	<b>8.8</b>	<b>8.8</b>	<b></b>	<b>56.4</b>	<b>56.4</b>	<b></b>	<b>475.8</b>	<b>475.8</b>	<b></b>	<b>403.8</b>	<b>231.6</b>	<b>172.2</b>	<b>239.9</b>	<b>1.2</b>	<b>238.7</b>	<b>132.1</b>	<b></b>	<b>132.1</b>
Acre-feet		17			112			944			801			476			262	
Priority Diverted		17			112			944			459			2				
Apport Diverted											342			473			262	
Appor diverted to date											342			815			1077	
TBI acreage		931.94			1174.64			1243.51			1247.51			1253.61			1253.61	
Apportioned		3280			4135			8419			8446			8487			8487	
Duty		0.02			0.10			0.76			0.64			0.38			0.21	

DAY	JUL			AUG			SEP			OCT			NOV			DEC			Totals
	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport	
1	5.1		5.1	7.0	7.0		11.1	1.9	9.2										
2	5.3		5.3	7.2	7.2		11.1		11.1										
3	4.8		4.8	8.2	8.2		11.1	1.2	9.9										
4	4.1		4.1	9.1	9.1		11.1	1.2	9.9										
5	2.8		2.8	9.6	9.6		11.1	1.2	9.9										
6	2.4		2.4	9.9	9.9		10.7	1.2	9.5										
7	2.1		2.1	9.9	6.3	3.6	10.7	0.5	10.2										
8	2.0		2.0	9.7	6.3	3.4	10.7		10.7										
9	2.0		2.0	9.6	2.5	7.1	10.7	0.7	10.0										
10	2.0		2.0	9.6	4.1	5.5	10.7	0.5	10.2										
11	1.0		1.0	9.4	3.9	5.5	10.6	0.5	10.1										
12				9.4	4.1	5.3	10.6	0.5	10.1										
13				9.4	9.4		10.0		10.0										
14				9.4	9.4		8.2		8.2										
15				9.4	9.4		5.9		5.9										
16	0.3		0.3	9.4	9.4														
17	7.3		7.3	9.4	9.4														
18	6.3		6.3	9.2	9.2														
19	6.3		6.3	9.6	2.8	6.8													
20	5.9	1.2	4.7	10.0	1.9	8.1													
21	2.4		2.4	10.2	10.2														
22	7.6	7.6		10.6	3.9	6.7													
23	9.2	2.4	6.8	10.8	2.8	8.0													
24	9.9	9.9		10.8	2.4	8.4													
25	13.4	13.4		10.8	10.8														
26	11.9	11.9		10.8		10.6													
27	10.3	10.3		10.9		10.9													
28	9.4	9.4		10.9	1.2	9.7													
29	8.0	8.0		11.1	1.9	9.2													
30	7.1	7.1		11.1	2.4	8.7													
31	7.0	7.0		11.1		11.1													
<b>Total</b>	<b>155.9</b>	<b>88.2</b>	<b>67.7</b>	<b>303.5</b>	<b>174.7</b>	<b>128.8</b>	<b>154.3</b>	<b>9.4</b>	<b>144.9</b>	<b></b>	<b></b>	<b></b>	<b></b>	<b></b>	<b></b>	<b></b>	<b></b>	<b></b>	<b></b>
Acre-feet		309			602			306											3,828
Priority Diverted		175			347			19											2,075
Apport Diverted		134			255			287											1,753
Appor diverted to date		1211			1486			1753											1,753
TBI acreage		1253.61			1253.61			1253.61			1753			1753					1,753
Apportioned		8487			8487			8487			8487			8487					8,487
Duty		0.25			0.48			0.24											3.05

Diversions from South side of Gila River in NE 1/4 NW 1/4, Sec. 4, T. 6S, R. 24E. Water-stage recorder and 8 ft. flume located in SE 1/4 SW 1/4, Sec. 32, T. 6S, R. 24E.

Record Good

2017

**COLVIN-JONES CANAL: 205.90 Acres**

Mean daily diversions, cubic feet per second

DAY	JAN			FEB			MAR			APR			MAY			JUN		
	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30																		
31																		
Total																		
Acre-feet																		
Priority Diverted																		
Apport Diverted																		
Apport diverted to date																		
TBI acreage																		
Apportioned																		
Duty																		

DAY	JUL			AUG			SEP			OCT			NOV			DEC			Totals
	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport	
1																			
2																			
3																			
4																			
5																			
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7																			
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25																			
26																			
27																			
28																			
29																			
30																			
31																			
Total																			
Acre-feet																			
Priority Diverted																			
Apport Diverted																			
Apport diverted to date																			
TBI acreage																			
Apportioned																			
Duty																			

Diversions from North side of Gila River in SE 1/4 SW 1/4, Sec. 28, T. 4S, R. 23E. Water-stage recorder and 2 ft Parshall flume located in SE 1/4 SW 1/4, Sec. 28, T. 4S, R. 23E.  
Record Good

# 2017

## SAN CARLOS APACHE TRIBE: 1,000 acres

Mean daily diversions, cubic feet per second

DAY	JAN				FEB				MAR				APR				MAY				JUN			
	Total	Black Point	Navajo Point	Anderson Flat	Total	Black Point	Navajo Point	Anderson Flat	Total	Black Point	Navajo Point	Anderson Flat	Total	Black Point	Navajo Point	Anderson Flat	Total	Black Point	Navajo Point	Anderson Flat	Total	Black Point	Navajo Point	Anderson Flat
1																								
2												3.0		1.1										
3												2.0		0.6										
4												3.3		1.3										
5												3.4		2.9										
6												3.5		3.2										
7												2.8		3.3										
8												3.0		2.2										
9												3.5		1.9										
10												3.6		1.9										
11												1.5		1.9										
12														1.9										
13														1.9										
14														1.9										
15														1.9			1.7		0.8		0.9			
16					3.2			3.2						1.9			1.9	3.3		0.8		2.5		
17					3.5			3.5						1.9			1.9	3.3		0.8		2.5		
18					3.4			3.4						1.9			1.9	3.9		0.8		3.1		
19					3.3			3.3						1.9			1.9	3.7				3.7		
20					2.5			2.5						1.9			1.9	3.7				3.7		
21					2.5			2.5						1.9			1.9	3.7				3.7		
22					2.5			2.5						1.9			1.9	3.6				3.6		
23					2.5			2.5						1.4			1.4	3.5				3.5		
24					1.0			1.0									3.5				3.5			
25																	1.3				1.3			
26																								
27																								
28																								
29																								
30												2.6		1.1										
31												3.7		1.2										
<b>Total</b>					<b>24.4</b>				<b>24.4</b>	<b>32.9</b>			<b>2.3</b>	<b>30.6</b>	<b>50.5</b>			<b>7.3</b>	<b>43.2</b>	<b>35.2</b>			<b>3.2</b>	<b>32.0</b>
Acre-feet Diverted to date					48			48	85	5		61	100	14	86	70	6	63	284	25	258	284	25	258
TBI Acreage	285.2	179.0	35.2	71.0	285.2	35.2	179.0	71.0	285.2	35.2	179.0	71.0	285.2	35.2	179.0	71.0	285.2	35.2	179.0	71.0	285.2	35.2	179.0	71.0
Duty					0.17			0.68	0.40	0.03		0.88	0.75	0.08	1.21	0.99	0.03	0.69	0.99	0.03	0.69	0.99	0.03	0.69

DAY	JUL				AUG				SEP				OCT				NOV				DEC				Totals			
	Total	Black Point	Navajo Point	Anderson Flat	Total	Black Point	Navajo Point	Anderson Flat	Total	Black Point	Navajo Point	Anderson Flat	Total	Black Point	Navajo Point	Anderson Flat	Total	Black Point	Navajo Point	Anderson Flat	Total	Black Point	Navajo Point	Anderson Flat				
1																												
2																												
3																												
4																												
5																												
6																												
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17																												
18																												
19																												
20																												
21																												
22																						2.3		2.3				
23																						5.3		5.3				
24																						4.6		4.6				
25																						4.8		4.8				
26																						5.0		5.0				
27																						4.8		4.8				
28																												
29																												
30																												
31																												
<b>Total</b>																									<b>26.8</b>			<b>26.8</b>
Acre-feet Diverted to date																									53		53	337
TBI Acreage	285.2	35.2	179.0	71.0	285.2	35.2	179.0	71.0	285.2	35.2	179.0	71.0	285.2	35.2	179.0	71.0	285.2	35.2	179.0	71.0	285.2	35.2	179.0	71.0	285.2			
Duty					0.99			0.99	0.99	0.99		0.99	0.99	0.99	0.99		1.18		0.99		1.18			0.75	1.18			

# 2017

## ASARCO INCORPORATED

Pumping for Industrial, Domestic, and related beneficial purposes  
Mean daily diversions, cubic feet per second

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	6.2	10.8	12.6	11.0	11.7	10.8	15.1	9.5	13.4	12.8	11.3	14.8
2	6.2	9.5	13.7	11.7	11.5	13.8	14.7	11.1	13.0	9.7	12.8	15.0
3	8.4	11.5	13.2	12.3	11.4	11.9	14.9	10.1	13.5	8.6	10.5	14.9
4	6.3	9.9	13.3	13.0	11.5	11.8	15.6	9.5	13.2	5.2	11.4	15.0
5	6.2	9.4	8.6	13.1	12.7	12.3	14.9	17.3	13.3	4.7	14.2	15.0
6	11.3	9.9	10.1	12.6	13.1	12.2	13.4	17.5	13.4	12.2	14.0	15.0
7	9.7	11.6	11.2	13.2	13.0	12.5	13.4	17.2	13.0	12.5	12.8	14.4
8	10.6	11.0	9.8	13.1	13.3	11.7	13.0	17.2	12.2	15.7	9.0	12.6
9	10.3	10.7	9.8	12.4	11.6	9.4	12.5	16.8	12.3	16.4	13.4	11.6
10	8.9	10.9	10.3	8.3	10.2	12.0	14.9	15.3	12.0	11.2	11.3	13.0
11	8.4	10.5	9.0	9.0	10.9	13.4	14.7	15.6	11.9	12.9	13.3	9.9
12	8.7	10.5	8.3	6.6	11.3	14.3	14.9	12.1	12.2	10.8	14.1	8.7
13	11.9	9.6	9.2	9.5	12.6	14.2	14.3	13.0	10.8	11.4	11.5	8.3
14	10.9	6.9	7.9	12.6	13.5	13.9	13.1	17.1	8.2	9.5	11.8	10.0
15	8.6	10.2	8.7	12.8	11.2	15.5	14.9	16.3	8.0	14.0	15.0	13.3
16	11.2	9.9	8.4	13.5	11.5	16.5	14.8	3.8	7.9	15.3	14.5	13.0
17	11.5	11.7	8.3	12.8	12.0	14.1	12.2	9.0	12.3	13.7	13.0	15.1
18	10.8	11.2	8.6	13.8	11.6	16.3	16.1	17.7	9.2	11.1	9.3	14.2
19	11.7	9.4	9.7	13.6	12.2	15.0	15.1	16.7	9.2	10.5	7.3	14.4
20	11.7	9.6	13.4	13.6	11.3	15.0	15.8	16.9	10.1	13.2	7.8	15.9
21	10.4	10.8	14.1	13.5	11.4	14.9	16.1	17.1	11.3	12.4	4.5	15.3
22	10.6	12.2	9.1	13.1	12.4	15.5	13.8	12.6	8.9	12.0	8.0	13.4
23	6.5	11.8	12.0	13.7	10.8	13.5	10.1	13.5	6.9	11.3	7.8	12.1
24	2.8	7.4	8.7	10.3	10.5	13.8	9.1	13.5	6.8	12.9	11.0	14.5
25	3.3	10.7	11.3	10.2	15.0	14.5	12.7	13.2	7.7	14.0	10.7	12.2
26	10.6	11.2	11.8	10.5	13.6	12.8	12.6	13.2	9.5	11.3	17.0	10.1
27	11.4	11.4	11.7	12.2	14.0	11.4	13.9	13.4	6.8	12.6	18.1	11.7
28	11.7	11.4	11.6	12.0	13.8	11.9	13.9	13.8	9.3	15.0	15.3	8.3
29	11.2		11.5	10.9	13.4	11.8	14.0	12.7	11.9	15.1	15.3	8.0
30	11.6		11.1	11.3	11.5	14.7	10.6	13.3	9.6	13.1	15.5	8.1
31	11.2		12.0		9.9		9.0	13.4		11.3		9.5
<b>Total CFS</b>	290.8	291.6	329.0	356.2	374.4		424.1	429.4	317.8	372.4	352.2	387.3
<b>Total Acre-Feet</b>	577	578	653	707	743	796	841	852	630	739	699	768
<b><u>ASARCO Reported Ac-ft.</u></b>												
Reported	577	579	652	706	743	796	841	852	631	739	717	768
Reported Year-to-Date	577	1,156	1,808	2,514	3,257	4,053	4,894	5,746	6,377	7,116	7,833	8,601
<b><u>Tabulations in Ac-ft</u></b>												
Allocation diverted	577	578	653	707	743	796	841	852	630	739	699	768
Previous Alloc. Div		577	1,155	1,808	2,515	3,258	4,054	4,895	5,747	6,377	7,116	7,815
Alloc. Div to date	577	1,155	1,808	2,515	3,258	4,054	4,895	5,747	6,377	7,116	7,815	8,583
Article IX Allocation	16,221	16,221	16,221	16,221	16,221	16,221	16,221	16,221	16,221	16,221	16,221	16,221
Allocation Remaining	15,644	15,066	14,413	13,706	12,963	12,167	11,326	10,474	9,844	9,105	8,408	7,638

NOTE: ASARCO Industrial & Municipal diversions are Under ARTICLE IX (not apportioned)

2017

Kearny Arizona: 101.73 acres

Mean daily diversions, cubic feet per second

DAY	JAN			FEB			MAR			APR			MAY			JUN		
	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.
1	0.17	0.17		0.16	0.16		0.29	0.29		0.40	0.40		0.47	0.47		0.62		0.62
2	0.17	0.17		0.16	0.16		0.29	0.29		0.40	0.40		0.47	0.30	0.17	0.62		0.62
3	0.17	0.17		0.16	0.16		0.29	0.29		0.40	0.40		0.47	0.10	0.37	0.62		0.62
4	0.17	0.17		0.16	0.16		0.29	0.29		0.40	0.40		0.47	0.30	0.17	0.62		0.62
5	0.17	0.17		0.16	0.16		0.29	0.29		0.40	0.40		0.47		0.47	0.62		0.62
6	0.17	0.17		0.16	0.16		0.29	0.29		0.40	0.40		0.47		0.47	0.62		0.62
7	0.17	0.17		0.16	0.16		0.29	0.29		0.40	0.40		0.47		0.47	0.62		0.62
8	0.17	0.17		0.16	0.16		0.29	0.29		0.40	0.40		0.47		0.47	0.62		0.62
9	0.17	0.17		0.17	0.17		0.29	0.29		0.40	0.40		0.47		0.47	0.62		0.62
10	0.17	0.17		0.17	0.17		0.29	0.29		0.40	0.40		0.47		0.47	0.62		0.62
11	0.17	0.17		0.17	0.17		0.29	0.29		0.40	0.40		0.47		0.47	0.62		0.62
12	0.17	0.17		0.17	0.17		0.29	0.29		0.40	0.40		0.47		0.47	0.62		0.62
13	0.17	0.17		0.17	0.17		0.29	0.29		0.40	0.40		0.47		0.47	0.62		0.62
14	0.17	0.17		0.17	0.17		0.29	0.29		0.40	0.40		0.47		0.47	0.62		0.62
15	0.17	0.17		0.17	0.17		0.29	0.29		0.40	0.40		0.47		0.47	0.62		0.62
16	0.17	0.17		0.17	0.17		0.29	0.29		0.40	0.40		0.47		0.47	0.62		0.62
17	0.17	0.17		0.17	0.17		0.29	0.29		0.40	0.40		0.47		0.47	0.62		0.62
18	0.17	0.17		0.17	0.17		0.29	0.29		0.40	0.40		0.47		0.47	0.62		0.62
19	0.17	0.17		0.17	0.17		0.29	0.29		0.40	0.40		0.47		0.47	0.62		0.62
20	0.18	0.18		0.17	0.17		0.29	0.29		0.40	0.40		0.47		0.47	0.62		0.62
21	0.18	0.18		0.17	0.17		0.29	0.29		0.41	0.41		0.47		0.47	0.63		0.63
22	0.18	0.18		0.17	0.17		0.29	0.29		0.41	0.41		0.47		0.47	0.63		0.63
23	0.18	0.18		0.17	0.17		0.29	0.29		0.41	0.41		0.47		0.47	0.63		0.63
24	0.18	0.18		0.17	0.17		0.28	0.28		0.41	0.41		0.47		0.47	0.63		0.63
25	0.18	0.18		0.17	0.17		0.28	0.28		0.41	0.41		0.48		0.48	0.63		0.63
26	0.18	0.18		0.17	0.17		0.28	0.28		0.41	0.30	0.11	0.48		0.48	0.63		0.63
27	0.18	0.18		0.17	0.17		0.28	0.28		0.41	0.41		0.48		0.48	0.63		0.63
28	0.18	0.18		0.17	0.17		0.28	0.28		0.41	0.30	0.11	0.48		0.48	0.63		0.63
29	0.18	0.18					0.28	0.28		0.41	0.10	0.31	0.48		0.48	0.63		0.63
30	0.18	0.18					0.28	0.28		0.41	0.30	0.11	0.48		0.48	0.63		0.63
31	0.18	0.18					0.28	0.28		0.41	0.30	0.11	0.48		0.48	0.63		0.63
Total	5.4	5.4		4.7	4.7		8.9	8.9		12.1	11.5	0.6	14.6	1.2	13.5	18.7		18.7
Acre-feet		11			9			18			24			29				37
Priority Diverted		11			9			18			23			2				
Apport Diverted											1			27				37
Appor Diverted to date											1			28				65
TBI Acreage		101.73			101.73			101.73			101.73			101.73				101.73
Apportioned		358			358			689			689			689				689
Duty		0.11			0.09			0.18			0.24			0.29				0.36

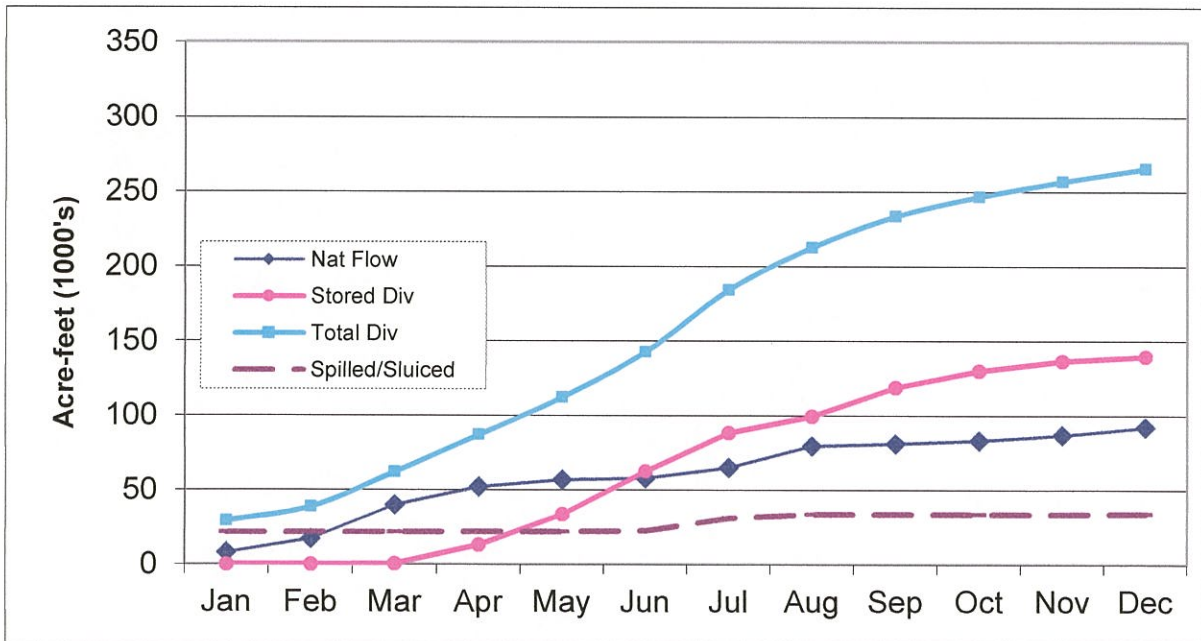
DAY	JUL			AUG			SEP			OCT			NOV			DEC			Totals
	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	
1	0.46		0.46	0.42	0.42		0.43	0.43		0.39		0.39	0.24		0.24	0.13	0.13		
2	0.46		0.46	0.42	0.42		0.43		0.43	0.39		0.39	0.24		0.24	0.13	0.13		
3	0.46		0.46	0.42	0.42		0.43	0.43		0.39		0.39	0.24		0.24	0.13	0.13		
4	0.46		0.46	0.42	0.42		0.43		0.43	0.39		0.39	0.24		0.24	0.13	0.13		
5	0.46		0.46	0.42	0.42		0.43	0.30	0.13	0.39		0.39	0.24		0.24	0.13	0.13		
6	0.46		0.46	0.42	0.42		0.43	0.30	0.13	0.39		0.39	0.24		0.24	0.13	0.13		
7	0.47		0.47	0.42	0.42		0.43	0.30	0.13	0.39		0.39	0.24		0.24	0.13	0.13		
8	0.47		0.47	0.42	0.42		0.43	0.30	0.13	0.39		0.39	0.24		0.24	0.13	0.13		
9	0.47		0.47	0.42	0.42		0.43	0.10	0.33	0.39	0.39		0.24		0.24	0.12	0.12		
10	0.47		0.47	0.42	0.42		0.43		0.43	0.39		0.39	0.24		0.24	0.12	0.12		
11	0.47		0.47	0.42	0.42		0.43	0.30	0.13	0.39		0.39	0.24	0.24		0.12	0.12		
12	0.47		0.47	0.42	0.42		0.43	0.10	0.33	0.39		0.39	0.24		0.24	0.12	0.12		
13	0.47		0.47	0.42	0.42		0.43	0.30	0.13	0.39		0.39	0.24		0.24	0.12	0.12		
14	0.47		0.47	0.42	0.42		0.43	0.30	0.13	0.39		0.39	0.24	0.24		0.12	0.12		
15	0.47		0.47	0.42	0.42		0.43		0.43	0.39		0.39	0.24	0.24		0.12	0.12		
16	0.47		0.47	0.42	0.42		0.43		0.43	0.39		0.39	0.24		0.24	0.12	0.12		
17	0.47		0.47	0.42	0.42		0.43		0.43	0.39		0.39	0.24		0.24	0.12	0.12		
18	0.47		0.47	0.42	0.42		0.43		0.43	0.39		0.39	0.24		0.24	0.12	0.12		
19	0.47		0.47	0.42	0.42		0.43		0.43	0.39		0.39	0.24		0.24	0.12	0.12		
20	0.47		0.47	0.42	0.42		0.43		0.43	0.39		0.39	0.24		0.24	0.12	0.12		
21	0.47		0.47	0.42	0.42		0.43		0.43	0.40		0.40	0.24	0.10	0.14	0.12	0.12		
22	0.47	0.30	0.17	0.42	0.42		0.43		0.43	0.40		0.40	0.24	0.24		0.12	0.12		
23	0.47		0.47	0.42	0.42		0.43		0.43	0.40		0.40	0.24	0.24		0.12	0.12		
24	0.47	0.47		0.43	0.43		0.43		0.43	0.40		0.40	0.24	0.24		0.12	0.12		
25	0.47	0.47		0.43	0.43		0.43		0.43	0.40		0.40	0.24	0.24		0.12	0.12		
26	0.47	0.47		0.43	0.43		0.43		0.43	0.40		0.40	0.24	0.24		0.12	0.12		
27	0.47	0.47		0.43	0.43		0.43		0.43	0.40		0.40	0.24	0.24		0.12	0.12		
28	0.47	0.47		0.43		0.43	0.43		0.43	0.40		0.40	0.24	0.24		0.12	0.12		
29	0.47	0.47		0.43		0.43	0.43		0.43	0.40		0.40	0.25	0.25		0.12	0.12		
30	0.47	0.47		0.43	0.30	0.13	0.43		0.43	0.40		0.40	0.25	0.25		0.12	0.12		
31	0.47	0.47		0.43	0.43		0.43		0.43	0.40		0.40	0.25	0.25		0.12	0.12		
Total	14.5	4.1	10.5	13.1	12.1	1.0	12.9	3.2	9.7	12.2	0.4	11.8	7.2	2.5	4.7	3.8			
Acre-feet		29			26			26			24			14				8	
Priority Diverted		8			24			5			1			5				8	
Apport Diverted		21			2			19			23			9				139	
Appor diverted to date		86			88			107			130			139				139	
TBI Acreage		101.73			101.73			101.73			101.73			101.73				101.73	
Apportioned		689			689			689			689			689				689	
Duty		0.29			0.26			0.26			0.24			0.14				0.68	

# 2017

## MASS DIAGRAM OF SAN CARLOS PROJECT DIVERSIONS AT ASHURT-HAYDEN DAM

In Acre-Feet

Month	Accumulated		Monthly Total Diversions	Accumulated	
	Natural Flow Diversions	Stored Water Diversions		Total Diversions	Spilled and Sluiced
Jan	7,821		7,821	29,082	21,261
Feb	17,084		17,084	38,533	21,449
Mar	39,851	339	40,190	61,798	21,608
Apr	51,962	13,099	65,061	86,768	21,707
May	56,597	33,622	90,219	111,926	21,707
Jun	57,749	62,169	119,918	142,399	22,481
Jul	64,804	88,234	153,038	183,939	30,901
Aug	79,416	99,375	178,791	212,429	33,638
Sep	80,916	118,653	199,569	233,207	33,638
Oct	83,092	129,626	212,718	246,356	33,638
Nov	86,621	136,346	222,967	256,605	33,638
Dec	91,915	139,303	231,218	265,243	34,025
Graph:	Nat Flow Div	Stored Div		Total Div	Spill/Sluice





# 2017

## SAN CARLOS IRRIGATION PROJECT DIVERSIONS at ASHURST-HAYDEN DAM

Original Decreed 102,090.50 Acres

Mean daily diversions - cubic feet per second

JANUARY

T. B. I. 30,754.57 Acres

FEBRUARY

T. B. I. 32,960.75 Acres

MARCH

T. B. I. 36,917.01 Acres

2017	Diversed		Natural		Passing Dam	
	Total	Stored	Flow	Sluice	Spill	Sluice
1	160		160			
2	156		156			
3	104		104			
4	12		12	135		
5	12		12	70		
6	12		12	50		
7	12		12	45		
8	11		11	40		
9	11		11	25		
10	24		24			
11	53		53			
12	124		124	2		
13	119		119	2		
14	97		97			
15	98		98			
16	109		109			
17	183		183			
18	196		196			
19	143		143			
20	141		141			
21	215		215	1800		
22	207		207	2000		
23	172		172	460		
24	230		230	3000		
25	205		205	2000		
26	249		249	1000		
27	218		218	50		
28	198		198	25		
29	173		173	15		
30	156		156			
31	143		143			
Total	3943		3943	10719		
Ac-Ft	7821		7821	21261		
To Date	7821		7821	21261		
Duty	0.25					

2017	Diversed		Natural		Passing Dam	
	Total	Stored	Flow	Sluice	Spill	Sluice
1	132		132			
2	119		119			
3	110		110			
4	124		124			
5	147		147			
6	159		159			
7	154		154			
8	148		148			
9	144		144			
10	143		143			
11	151		151			
12	152		152			
13	151		151			
14	149		149			
15	147		147			
16	150		150			
17	160		160			
18	171		171			
19	177		177			
20	194		194			
21	219		219			
22	213		213			
23	173		173			
24	197		197	95		
25	226		226			
26	222		222			
27	219		219			
28	219		219			
29	219		219			
30	219		219			
31	4670		4670	95		
Total	9263		9263	188		
Ac-Ft	17084		17084	21449		
To Date	0.52					

2017	Diversed		Natural		Passing Dam	
	Total	Stored	Flow	Sluice	Spill	Sluice
1	219		219			
2	220		220			
3	234		234			
4	246		246			
5	292		292			
6	307		307			
7	299		299	50		
8	322		322			
9	330		330			
10	330		330			
11	331		331			
12	364		364			
13	403		403			
14	404		404			
15	408		408			
16	408		408			
17	409		409			
18	409		409			
19	410		410			
20	410		410			
21	411		411			
22	411		411			
23	436		436			
24	448		448			
25	448		448			
26	447		447			
27	440		440			
28	452		452			
29	470	25	445	10		
30	472	61	411	10		
31	459	85	374	10		
Total	11649	171	11478	80		
Ac-Ft	23106	339	22767	159		
To Date	40190	339	39851	21608		
Duty	1.09					

Diversions from South side of Gila River at A-H Dam, in Sec 8, T 4S, R 11E, 10 miles NE of Florence, AZ  
 Water-stage recorder and Parshall flume near China Wash, 3 miles below A-H Dam  
 Water passing dam estimated by San Carlos Irrigation Project...

# 2017

## SAN CARLOS IRRIGATION PROJECT DIVERSIONS at ASHURST-HAYDEN DAM Original Decreed 102,090.50 Acres

Mean daily diversions - cubic feet per second

APRIL

T. B. I. 41,661.94 Acres

2017	Diverted			Passing Dam		
	Total	Stored	Natural Flow	Spill	Sluice	
1	452	79	373	10		
2	427	86	341	10		
3	422	113	309	10		
4	417	122	295	20		
5	429	131	298			
6	407	108	299			
7	374	99	275			
8	391	120	271			
9	395	143	252			
10	389	155	234			
11	384	166	218			
12	382	171	211			
13	381	177	204			
14	380	184	196			
15	382	198	184			
16	402	235	167			
17	417	253	164			
18	423	266	157			
19	446	282	164			
20	446	286	160			
21	445	290	155			
22	440	293	147			
23	440	295	145			
24	439	303	136			
25	438	303	135			
26	438	305	133			
27	439	311	128			
28	438	315	123			
29	438	320	118			
30	438	324	114			
31						
Total	12539	6433	6106	50		
Ac-Ft To Date	24871	12760	12111	99		
Duty	65061	13099	51962	21707		
	1.56					

MAY

T. B. I. 39,713.15 Acres

2017	Diverted			Passing Dam		
	Total	Stored	Natural Flow	Spill	Sluice	
1	437	326	111			
2	424	308	116			
3	411	311	100			
4	421	321	100			
5	418	324	94			
6	418	322	96			
7	438	364	74			
8	459	379	80			
9	453	378	75			
10	444	358	86			
11	431	341	90			
12	429	340	89			
13	425	338	87			
14	422	338	84			
15	421	343	78			
16	418	346	72			
17	403	320	83			
18	376	302	74			
19	373	305	68			
20	372	306	66			
21	369	304	65			
22	376	323	53			
23	397	338	59			
24	396	340	56			
25	394	338	56			
26	392	329	63			
27	392	330	62			
28	393	334	59			
29	392	337	55			
30	390	339	51			
31	400	365	35			
Total	12684	10347	2337			
Ac-Ft To Date	25158	20523	4635			
Duty	90219	33622	56597	21707		
	2.27					

JUNE

T. B. I. 39,548.14 Acres

2017	Diverted			Passing Dam		
	Total	Stored	Natural Flow	Spill	Sluice	
1	437	389	48			
2	439	388	51			
3	441	388	53			
4	441	392	49			
5	440	392	48			
6	439	394	45			
7	438	395	43			
8	452	434	18			
9	488	488				
10	477	477				
11	411	411				
12	385	385				
13	435	435				
14	416	305	111			
15	306	306				
16	523	523				
17	535	524	11			
18	540	526	14			
19	543	525	18			
20	547	526	21			
21	547	525	22			
22	557	557				
23	589	589				
24	594	593	1			
25	596	593	3			
26	595	593	2			
27	598	592	6			
28	589	589				
29	592	582	10			
30	583	576	7			
31						
Total	14973	14392	581	360		30
Ac-Ft To Date	29699	28547	1152	714		60
Duty	119918	62169	57749	22421		60
	3.03					

Water passing dam estimated by San Carlos Irrigation Project...

# 2017

## SAN CARLOS IRRIGATION PROJECT DIVERSIONS at ASHURST-HAYDEN DAM

Original Decreed 102,090.50 Acres

Mean daily diversions - cubic feet per second

### JULY

T. B. I. 39,598.14 Acres

2017	Diverted			Passing Dam		
	Total	Stored	Natural Flow	Spill	Sluice	
1	582	576	6			
2	583	576	7			
3	583	576	7			
4	584	576	8			
5	583	576	7			
6	581	576	5			
7	575	575				
8	588	583	5			
9	593	590	3			
10	582	582				
11	585	585				
12	604	588	16			
13	598	588	10			
14	608	588	20			
15	627	580	47			
16	478	478		235		
17	465	465		365		
18	511	511		350		
19	522	487	35	300		
20	517	517		200		
21	540	428	112	175		
22	535	428	107	200		
23	543	491	52	250		
24	571	414	157	400		
25	533		533	800		
26	434		434	70		
27	381		381	60		
28	403	42	361	45		
29	421	165	256	45		
30	466		466	400		
31	522		522	350		
Total	16698	13141	3557	4245		
Ac-Ft	33120	26065	7055	8420		60
To Date	153038	88234	64804	30841		60
Duty	3.86					

### AUGUST

T. B. I. 39,598.14 Acres

2017	Diverted			Passing Dam		
	Total	Stored	Natural Flow	Spill	Sluice	
1	545		545	400		
2	424		424			
3	514		514	150		
4	466		466	300		
5	465		465	100		
6	394		394	50		
7	406	19	387	30		
8	403	102	301	20		
9	413	153	260			
10	377	151	226			
11	324	148	176			
12	376	158	218			
13	414	172	242			
14	362	151	211	150		
15	327		327	160		
16	338	42	296	20		
17	315	46	269			
18	307	19	288			
19	302	66	236			
20	299	125	174			
21	297	167	130			
22	295	190	105			
23	368	327	41			
24	519	434	85			
25	554	468	86			
26	540	484	56			
27	542	483	59			
28	541	473	68			
29	541	453	188			
30	521	425	96			
31	495	431	64			
Total	12984	5617	7367	1380		
Ac-Ft	25753	11141	14612	2737		60
To Date	178791	99375	79416	33578		60
Duty	4.52					

### SEPTEMBER

T. B. I. 38,055.74 Acres

2017	Diverted			Passing Dam		
	Total	Stored	Natural Flow	Spill	Sluice	
1	486	437	49			
2	465	323	142			
3	437	335	102			
4	432	361	71			
5	430	376	54			
6	418	378	40			
7	392	366	26			
8	389	369	20			
9	390	369	21			
10	391	370	21			
11	384	370	14			
12	382	371	11			
13	367	352	15			
14	351	343	8			
15	347	344	3			
16	348	343	5			
17	348	344	4			
18	345	344	1			
19	332	320	12			
20	312	304	8			
21	310	303	7			
22	308	303	5			
23	293	275	18			
24	275	263	12			
25	276	263	13			
26	266	248	18			
27	252	238	14			
28	251	237	14			
29	249	235	14			
30	249	235	14			
31						
Total	10475	9719	756			
Ac-Ft	20778	19278	1500			60
To Date	199569	118653	80916	33578		60
Duty	5.24					

Water passing dam estimated by San Carlos Irrigation Project...

# 2017

## SAN CARLOS IRRIGATION PROJECT DIVERSIONS at ASHURST-HAYDEN DAM

Original Decreed 102,090.50 Acres

Mean daily diversions - cubic feet per second

### OCTOBER

T. B. I. 38,055.74 Acres

### NOVEMBER

T. B. I. 38,055.74 Acres

### DECEMBER

T. B. I. 38,055.74 Acres

2017	Diverted			Passing Dam		
	Total	Stored	Natural Flow	Spilled	Sluice	
1	246	234	12			
2	246	233	13			
3	238	211	27			
4	224	200	24			
5	223	201	22			
6	219	202	17			
7	218	152	66			
8	217	133	84			
9	220	146	74			
10	216	161	55			
11	217	169	48			
12	218	174	44			
13	217	179	38			
14	217	180	37			
15	217	181	36			
16	216	185	31			
17	216	188	28			
18	217	190	27			
19	217	189	28			
20	218	188	30			
21	217	189	28			
22	217	189	28			
23	218	191	27			
24	218	190	28			
25	213	190	23			
26	215	190	25			
27	217	189	28			
28	200	148	52			
29	161	121	40			
30	158	120	38			
31	158	119	39			
<b>Total</b>	6629	5532	1097			
<b>Ac-Ft To Date</b>	13149	10973	2176			60
<b>Duty</b>	212718	129626	83092	33578		

2017	Diverted			Passing Dam		
	Total	Stored	Natural Flow	Spilled	Sluice	
1	157	118	39			
2	156	118	38			
3	158	121	37			
4	169	130	39			
5	171	129	42			
6	171	128	43			
7	172	127	45			
8	173	126	47			
9	172	126	46			
10	171	123	48			
11	171	122	49			
12	172	121	51			
13	172	118	54			
14	172	116	56			
15	172	116	56			
16	173	114	59			
17	173	113	60			
18	174	112	62			
19	174	112	62			
20	174	111	63			
21	176	110	66			
22	176	108	68			
23	175	106	69			
24	176	103	73			
25	177	99	78			
26	177	97	80			
27	177	93	84			
28	178	92	86			
29	179	91	88			
30	179	88	91			
<b>Total</b>	5167	3388	1779			
<b>Ac-Ft To Date</b>	10249	6720	3529			60
<b>Duty</b>	222967	136346	86621	33578		

2017	Diverted			Passing Dam		
	Total	Stored	Natural Flow	Spilled	Sluice	
1	180	87	93			
2	180	86	94			
3	180	84	96			
4	181	87	94			
5	181	87	94			
6	178	91	87			
7	161	65	96			
8	161	59	102			
9	163	57	106			
10	169	75	94			
11	191	87	104			
12	190	83	107			
13	191	77	114			
14	191	76	115			
15	186	55	131			
16	182	47	115			
17	176	54	122			
18	178	52	126			
19	177	49	128			
20	177	45	132			
21	177	44	133			
22	177	44	133			
23	159		159			
24	48.3		48.3			
25	15.3		15.3			45
26	14.3		14.3			30
27	11.7		11.7			30
28	4.26		4.26			25
29	0.18		0.18			25
30						20
31						20
<b>Total</b>	4160	1491	2669			195
<b>Ac-Ft To Date</b>	8251	2957	5294			387
<b>Duty</b>	231218	139303	91915	33965		60

Water passing dam estimated by San Carlos Irrigation Project...

# DETERMINATION OF PRIORITY WATER

## JANUARY 2017

Mean daily discharge - cubic feet per second

2017	SAN CARLOS RESERVOIR				ASHURST-HAYDEN DAM				DAILY CALL SYSTEM				Version 7.08		
	RELEASES		STORAGE		Sluiced and/or Spilled		Natural Flow		Duncan Virden		Safford			COMPUTED PRIORITY YEAR	
	River Inflow	Total	Natural Flow	Stored	Inflow Minus Outflow	Ac-ft change S C Res.	JAN	Diverted	Stored	Natural Flow	Gain/Loss Nat. Flow	Nat. Flow Available to Project		JAN	Winkelman
DEC 31	869				869	1431	1	160	160	160	160	1029	1	1924	1924
JAN 1	904				904	1489	2	156	156	156	1060	2	"	"	"
2	1233				1233	1141	3	104	104	104	1337	3	"	"	"
3	1155				1155	1738	4	135	12	12	147	4	"	"	"
4	1219				1219	1806	5	70	12	12	82	5	"	"	"
5	1139				1139	1980	6	50	12	12	62	6	"	"	"
6	954				954	1682	7	45	12	12	57	7	"	"	"
7	818				818	1516	8	40	11	11	51	8	"	"	"
8	728				728	1128	9	25	11	11	36	9	"	"	"
9	668	44	44		624	1281	10	24	24	24	-20	10	"	"	"
10	615	85	85		530	847	11	53	53	53	-32	11	"	"	"
11	575	75	75		500	814	12	2	124	124	51	12	"	"	"
12	547	75	75		472	892	13	2	119	119	46	13	"	"	"
13	531	75	75		456	784	14	97	97	97	22	14	"	"	"
14	513	75	75		438	862	15	98	98	98	23	15	"	"	"
15	505	76	76		429	828	16	109	109	109	33	16	"	"	"
16	585	76	76		509	756	17	183	183	183	107	17	"	"	"
17	1125	63	63		1062	835	18	196	196	196	133	18	"	"	"
18	1682	40	40		1642	2064	19	143	143	143	103	19	"	"	"
19	2203	75	75		2128	2707	20	141	141	141	66	20	"	"	"
20	2131	41	41		2090	3579	21	1800	215	215	1974	21	"	"	"
21	5720	34	34		5686	7597	22	2000	207	207	2173	22	"	"	"
22	3870	22	22		3848	7065	23	460	172	172	610	23	"	"	"
23	3374	20	20		3354	4895	24	3000	230	230	3210	24	"	"	"
24	5850	21	21		5829	8434	25	2000	205	205	2184	25	"	"	"
25	3505	44	44		3461	6735	26	1000	249	249	1205	26	"	"	"
26	3542	56	56		3486	5018	27	50	218	218	212	27	"	"	"
27	3787	68	68		3719	5447	28	25	198	198	155	28	"	"	"
28	3188	69	69		3119	5165	29	15	173	173	119	29	"	"	"
29	2244	68	68		2176	3796	30	156	156	156	88	30	"	"	"
30	1794	70	70		1724	2612	31	143	143	143	73	31	"	"	"
31	1550	71	71		1479	2398									

24 hour lag allowed between Coolidge/Ashurst-Hayden Dams. 12% transit loss on daily Stored releases...

# DETERMINATION OF PRIORITY WATER

## FEBRUARY 2017

Mean daily discharge - cubic feet per second

2017	SAN CARLOS RESERVOIR				ASHURST-HAYDEN DAM				DAILY CALL SYSTEM				VERSION 7.08			
	RELEASES		STORAGE		Sluiced and/or Spilled		Natural Flow		COMPUTED PRIORITY YEAR		COMPUTED PRIORITY YEAR		VERSION 7.08			
	River Inflow	Total	Natural Flow	Inflow Minus Outflow	Ac-ft S C Res.	FEB	Diverted	Stored	Natural Flow	Gain/Loss Nat. Flow to Project	Nat. Flow Available to Project	FEB	Duncan Viridan	Safford	Winkelman	Ashurst-Hayden
JAN 31	1550	71	71	1479	2398	1	132	132	132	61	1611	1	1924	1924	1924	1924
FEB 1	1425	70	70	1355	2296	2	119	119	119	49	1474	2	"	"	"	"
FEB 2	1407	70	70	1337	2252	3	110	110	110	40	1447	3	"	"	"	"
FEB 3	1479	88	88	1391	2266	4	124	124	124	36	1515	4	"	"	"	"
FEB 4	1597	126	126	1471	2159	5	147	147	147	21	1618	5	"	"	"	"
FEB 5	1679	132	132	1547	2293	6	159	159	159	27	1706	6	"	"	"	"
FEB 6	1712	126	126	1586	2612	7	154	154	154	28	1740	7	"	"	"	"
FEB 7	1704	122	122	1582	1405	8	148	148	148	26	1730	8	"	"	"	"
FEB 8	1689	122	122	1567	2578	9	144	144	144	22	1711	9	"	"	"	"
FEB 9	1668	132	132	1536	2224	10	143	143	143	11	1679	10	"	"	"	"
FEB 10	1630	143	143	1487	2361	11	151	151	151	8	1638	11	"	"	"	"
FEB 11	1682	142	142	1540	2250	12	152	152	152	10	1692	12	"	"	"	"
FEB 12	1848	142	142	1706	2515	13	151	151	151	9	1857	13	"	"	"	"
FEB 13	2055	142	142	1913	2911	14	149	149	149	7	2062	14	"	"	"	"
FEB 14	2259	142	142	2117	2996	15	147	147	147	5	2264	15	"	"	"	"
FEB 15	2759	157	157	2602	2824	16	150	150	150	-7	2752	16	"	"	"	"
FEB 16	3695	165	165	3530	4728	17	160	160	160	-5	3690	17	"	"	"	"
FEB 17	4522	165	165	4357	5507	18	171	171	171	6	4528	18	"	"	"	"
FEB 18	4939	166	166	4773	6351	19	177	177	177	11	4950	19	"	"	"	"
FEB 19	4286	191	191	4095	5804	20	194	194	194	3	4289	20	"	"	"	"
FEB 20	3637	202	202	3435	4376	21	219	219	219	17	3654	21	"	"	"	"
FEB 21	3537	200	200	3337	4865	22	213	213	213	13	3550	22	"	"	"	"
FEB 22	3453	198	198	3255	4580	23	173	173	173	-25	3428	23	"	"	"	"
FEB 23	3271	201	201	3070	3406	24	197	197	197	91	3362	24	"	"	"	"
FEB 24	3112	205	205	2907	4398	25	226	226	226	21	3133	25	"	"	"	"
FEB 25	2886	205	205	2681	3634	26	222	222	222	17	2903	26	"	"	"	"
FEB 26	2681	205	205	2476	3597	27	219	219	219	14	2695	27	"	"	"	"
FEB 27	2408	205	205	2203	3177	28	219	219	219	14	2422	28	"	"	"	"
FEB 28	2087	190	190	1897	2899					-190	1897					

24 hour lag allowed between Coolidge/Ashurst-Hayden Dams.

12% transit loss on daily Stored releases...

# DETERMINATION OF PRIORITY WATER

## MARCH 2017

Mean daily discharge - cubic feet per second

2017		SAN CARLOS RESERVOIR					ASHURST-HAYDEN DAM					DAILY CALL SYSTEM					VERSION 7.08	
		RELEASES		STORAGE			Sluiced and/or Spilled		Natural Flow			Duncan Virden		COMPUTED PRIORITY YEAR			YEAR	
		River Inflow	Total	Natural Flow	Inflow Minus Outflow	Ac-ft S C Res.	MAR	Diverted	Stored	Natural Flow	Gain/Loss Nat. Flow	Nat. Flow Available to Project	1924	Safford	Winkelman	1924	Ashurst-Hayden	
FEB 29	2087	190	190	1897	2899	1	219	219	219	29	2116	1	1924	1924	1924	"		
MAR 1	1822	230	230	1592	2151	2	220	220	220	-10	1812	2	"	"	"	"		
MAR 2	1577	244	244	1333	2241	3	234	234	234	-10	1567	3	"	"	"	"		
MAR 3	1388	276	276	1112	1475	4	246	246	246	-30	1358	4	"	"	"	"		
MAR 4	1223	320	320	903	1247	5	292	292	292	-28	1195	5	"	"	"	"		
MAR 5	1102	327	327	775	1251	6	307	307	307	-20	1082	6	"	"	"	"		
MAR 6	991	333	333	658	862	7	50	299	299	16	1007	7	"	"	"	"		
MAR 7	881	344	344	537	550	8	322	322	322	-22	859	8	"	"	"	"		
MAR 8	794	349	349	445	787	9	330	330	330	-19	775	9	"	"	"	"		
MAR 9	743	350	350	393	236	10	330	330	330	-20	723	10	"	"	"	"		
MAR 10	704	350	350	354	236	11	331	331	331	-19	685	11	"	"	"	"		
MAR 11	688	409	409	279	790	12	364	364	364	-45	643	12	"	"	"	"		
MAR 12	679	435	435	244	316	13	403	403	403	-32	647	13	"	"	"	"		
MAR 13	684	435	435	249	237	14	404	404	404	-31	653	14	"	"	"	"		
MAR 14	706	435	435	271	158	15	408	408	408	-27	679	15	"	"	"	"		
MAR 15	741	436	436	305	159	16	408	408	408	-28	713	16	"	"	"	"		
MAR 16	770	437	437	333	554	17	409	409	409	-28	742	17	"	"	"	"		
MAR 17	721	438	438	283	159	18	409	409	409	-29	692	18	"	"	"	"		
MAR 18	727	440	440	287	635	19	410	410	410	-30	697	19	"	"	"	"		
MAR 19	711	440	440	271	159	20	410	410	410	-30	681	20	"	"	"	"		
MAR 20	697	441	441	256	477	21	411	411	411	-30	667	21	"	"	"	"		
MAR 21	679	443	443	236	638	22	411	411	411	-32	647	22	"	"	"	"		
MAR 22	674	463	463	211	211	23	436	436	436	-27	647	23	"	"	"	"		
MAR 23	680	476	476	204	79	24	448	448	448	-28	652	24	"	"	"	"		
MAR 24	678	477	477	201	160	25	448	448	448	-29	649	25	"	"	"	"		
MAR 25	654	477	477	177	79	26	447	447	447	-30	624	26	"	"	"	"		
MAR 26	612	479	479	133	80	27	440	440	440	-39	573	27	"	"	"	"		
MAR 27	551	510	510	41	80	28	452	452	452	-58	493	28	"	"	"	"		
MAR 28	502	530	502	28	-160	29	470	25	445	-47	455	29	"	"	"	"		
MAR 29	462	531	462	69	-637	30	472	61	411	-41	421	30	"	"	"	"		
MAR 30	434	531	434	97	-239	31	459	85	374	-50	384	31	1917	1924	"	"		
MAR 31	417	507	417	90	-636													

24 hour lag allowed between Coolidge/Ashurst-Hayden Dams.

12% transit loss on daily Stored releases...

# DETERMINATION OF PRIORITY WATER

## APRIL 2017

Mean daily discharge - cubic feet per second

2017	SAN CARLOS RESERVOIR				ASHURST-HAYDEN DAM				DAILY CALL SYSTEM				VERSION 7.08				
	RELEASES		STORAGE		Sluiced and/or Spilled		Natural Flow		COMPUTED PRIORITY YEAR		COMPUTED PRIORITY YEAR						
	River Inflow	Total	Natural Flow	Inflow Minus Outflow	Ac-ft change S C Res.	APR	Diverted	Stored	Natural Flow	APR	Gain/Loss Nat. Flow to Project	Nat. Flow Available to Project		APR	Duncan Virden	Safford	Winkelman
MAR 31	417	507	417	90	-90	-636	10	452	78	373	-34	383	1	1921	1917	1921	1921
APR 1	385	483	385	98	-98	-159	10	427	86	341	-34	351	2	1914	1921	1924	1924
2	356	484	356	128	-128	-318	10	422	113	309	-37	319	3	1916	1914	1917	1917
3	333	472	333	139	-139	-317	20	417	122	295	-18	315	4	1915	1916	1921	1921
4	315	464	315	149	-149	-397		429	131	288	-17	298	5	1912	1915	1914	1914
5	295	418	295	123	-123	-158	6	407	108	299	4	289	6	1921	1912	1916	1916
6	280	393	280	113	-113	-158	7	374	99	275	-5	275	7	1906	1921	1915	1915
7	266	402	266	136	-136	-475	8	391	120	271	5	271	8	1915	1906	1912	1912
8	249	411	249	162	-162	-395	9	395	143	252	3	252	9	1914	1915	1921	1921
9	235	411	235	176	-176	-553	10	389	155	234	-1	234	10	1908	1914	1906	1906
10	222	411	222	189	-189	-788	11	384	166	218	-4	218	11	1907	1908	1915	1915
11	215	409	215	194	-194	-157	12	382	171	211	-4	211	12	1904b	1907	1914	1914
12	208	409	208	201	-201	-393	13	381	177	204	-4	204	13	1897	1904b	1908	1908
13	200	409	200	209	-209	-629	14	380	184	196	-4	196	14	1911	1897	1907	1907
14	191	416	191	225	-225	-549	15	382	198	184	-7	184	15	1906	1911	1904b	1904b
15	180	447	180	267	-267	-826	16	402	235	167	-13	167	16	1900	1906	1897	1897
16	173	461	173	288	-288	-938	17	417	253	164	-9	164	17	1889	1900	1911	1911
17	169	471	169	302	-302	-546	18	423	266	157	-12	157	18	1891	1889	1906	1906
18	162	483	162	321	-321	-934	19	446	282	164	2	164	19	1886	1891	1900	1900
19	158	483	158	325	-325	-622	20	446	286	160	2	160	20	1885	1886	1889	1889
20	153	483	153	330	-330	-1085	21	445	290	155	2	155	21	1884	1885	1891	1891
21	150	483	150	333	-333	-619	22	440	293	147	-3	147	22	1889	1884	1886	1886
22	145	480	145	335	-335	-849	23	440	295	145	145	145	23	1883	1889	1885	1885
23	136	480	136	344	-344	-1231	24	439	303	136		136	24	1886	1883	1884	1884
24	137	481	137	344	-344	-461	25	438	303	135	-2	135	25	1881	1886	1889	1889
25	133	480	133	347	-347	-1456	26	438	305	133		133	26	1889	1881	1883	1883
26	126	479	126	353	-353	-534	27	439	311	128	2	128	27	1883	1879	1886	1886
27	121	479	121	358	-358	-1144	28	438	315	123	2	123	28	1884	1883	1881	1881
28	115	479	115	364	-364	-912	29	438	320	118	3	118	29	1880	1884	1879	1879
29	110	478	110	368	-368	-834	30	438	324	114	4	114	30	1878	1880	1883	1883
30	106	476	106	370	-370	-907											

24 hour lag allowed between Coolidge/Ashurst-Hayden Dams.

12% transit loss on daily Stored releases...



# DETERMINATION OF PRIORITY WATER

**MAY 2017**

Mean daily discharge - cubic feet per second

2017	SAN CARLOS RESERVOIR				ASHURST-HAYDEN DAM				DAILY CALL SYSTEM				VERSION 7.08			
	RELEASES		STORAGE		Sluiced and/or Spilled		Natural Flow		Gain/Loss		COMPUTED PRIORITY YEAR		YEAR			
	River Inflow	Total	Natural Flow	Inflow Minus Outflow	Ac-ft S C Res.	MAY	Diverted	Stored	Natural Flow	Nat. Flow Available	Nat. Flow to Project	MAY	Duncan	Safford	Winkelman	Ashurst-Hayden
APR 30	106	476	106	370	-370	-907	437	326	111	5	111	1	1881	1878	1884	1884
MAY 1	104	454	104	350	-350	-755	424	308	116	12	116	2	1874	1881	1880	1880
2	98	451	98	353	-353	-979	411	311	100	2	100	3	Immem	1874	1878	1878
3	91	456	91	365	-365	-675	421	321	100	9	100	4	"	Immem	1881	1881
4	88	456	88	368	-368	-1049	418	324	94	6	94	5	"	"	1874	1874
5	89	455	89	366	-366	-822	418	322	96	7	96	6	"	"	Immem	Immem
6	81	495	81	414	-414	-1118	438	364	74	-7	74	7	"	"	"	"
7	76	507	76	431	-431	-1188	459	379	80	4	80	8	"	"	"	"
8	75	504	75	429	-429	-1111	453	378	75	5	75	9	1869	"	"	"
9	74	481	74	407	-407	-959	444	358	86	12	86	10	Immem	1869	"	"
10	68	455	68	387	-387	-883	431	341	90	22	90	11	"	Immem	"	"
11	67	453	67	386	-386	-955	429	340	89	22	89	12	"	"	1869	1869
12	67	451	67	384	-384	-866	425	338	87	20	87	13	"	"	Immem	Immem
13	66	450	66	384	-384	-1314	422	338	84	18	84	14	"	"	"	"
14	59	449	59	390	-390	-1092	421	343	78	19	78	15	1876	"	"	"
15	55	448	55	393	-393	-1087	418	346	72	17	72	16	Immem	1876	"	"
16	53	417	53	364	-364	-796	403	320	83	30	83	17	"	Immem	"	"
17	51	394	51	343	-343	-1082	376	302	74	23	74	18	1873	"	1876	1876
18	46	393	46	347	-347	-1078	373	305	68	22	68	19	1868	1873	Immem	Immem
19	45	393	45	348	-348	-717	372	306	66	21	66	20	1869	1868	"	"
20	46	392	46	346	-346	-1001	369	304	65	19	65	21	1846	1869	1873	1873
21	42	409	42	367	-367	-713	376	323	53	11	53	22	1868	1846	1868	1868
22	38	422	38	384	-384	-1137	397	338	59	21	59	23	Immem	1868	1869	1869
23	36	422	36	386	-386	-921	396	340	56	20	56	24	"	Immem	1846	1846
24	38	422	38	384	-384	-1130	394	338	56	18	56	25	"	"	1868	1868
25	47	421	47	374	-374	-845	392	329	63	16	63	26	"	"	Immem	Immem
26	46	421	46	375	-375	-1263	392	330	62	16	62	27	"	"	"	"
27	40	420	40	380	-380	-979	393	334	59	19	59	28	"	"	"	"
28	36	419	36	383	-383	-767	392	337	55	19	55	29	"	"	"	"
29	34	419	34	385	-385	-1250	390	339	51	17	51	30	"	"	"	"
30	33	448	33	415	-415	-831	400	365	35	2	35	31	"	"	"	"
31	32	474	32	442	-442	-1105										

24 hour lag allowed between Coolidge/Ashurst-Hayden Dams. 12% transit loss on daily Stored releases...

# DETERMINATION OF PRIORITY WATER

## JUNE 2017

Mean daily discharge - cubic feet per second

2017	SAN CARLOS RESERVOIR				ASHURST-HAYDEN DAM				DAILY CALL SYSTEM				VERSION 7.08				
	RELEASES		STORAGE		Sluiced and/or Spilled		Natural Flow		Duncan		Safford			Winkelman	Immem		
	River Inflow	Total	Natural Flow	Stored	Inflow Minus Outflow	Ac-ft S C Res.	JUN	Nat. Flow Available to Project	Gain/Loss Nat. Flow	Immem	Immem	Immem					
MAY 31	32	474	32	442	-442	-1105	1	48	437	389	48	16	1	1	1	1	1
JUN 1	32	473	32	441	-441	-963	2	51	439	388	51	19	2	2	2	2	2
JUN 2	31	472	31	441	-441	-1097	3	53	441	388	53	22	3	3	3	3	3
JUN 3	29	474	29	445	-445	-1297	4	49	441	392	49	20	4	4	4	4	4
JUN 4	29	475	29	446	-446	-1087	5	48	440	392	48	19	5	5	5	5	5
JUN 5	27	475	27	448	-448	-1152	6	45	439	394	45	18	6	6	6	6	6
JUN 6	26	475	26	449	-449	-1147	7	43	438	395	43	17	7	7	7	7	7
JUN 7	25	518	25	493	-493	-941	8	18	452	434	18	-7	8	8	8	8	8
JUN 8	24	593	24	569	-569	-1605	9	488	488	488	488	-24	9	9	9	9	9
JUN 9	25	606	25	581	-581	-1132	10	30	477	477	30	5	10	10	10	10	10
JUN 10	24	575	24	551	-551	-1524	11	98	411	411	98	74	11	11	11	11	11
JUN 11	23	589	23	566	-566	-1450	12	124	385	385	124	101	12	12	12	12	12
JUN 12	21	621	21	600	-600	-1509	13	73	435	435	73	52	13	13	13	13	13
JUN 13	22	369	22	347	-347	-655	14	35	416	305	111	124	14	14	14	14	14
JUN 14	20	446	20	426	-426	-1175	15	306	306	306	306	-20	15	15	15	15	15
JUN 15	20	615	20	595	-595	-1368	16	523	523	523	523	-20	16	16	16	16	16
JUN 16	19	614	19	595	-595	-1557	17	535	524	524	11	-8	17	17	17	17	17
JUN 17	16	614	16	598	-598	-1552	18	540	526	526	14	-2	18	18	18	18	18
JUN 18	17	614	17	597	-597	-1353	19	543	525	525	18	1	19	19	19	19	19
JUN 19	15	613	15	598	-598	-836	20	547	526	526	21	6	20	20	20	20	20
JUN 20	15	612	15	597	-597	-1602	21	547	525	525	22	7	21	21	21	21	21
JUN 21	14	662	14	648	-648	-1660	22	557	557	557	22	-14	22	22	22	22	22
JUN 22	13	687	13	674	-674	-1590	23	589	589	589	23	-13	23	23	23	23	23
JUN 23	12	686	12	674	-674	-1267	24	594	593	593	1	-11	24	24	24	24	24
JUN 24	11	685	11	674	-674	-1831	25	596	593	593	3	-8	25	25	25	25	25
JUN 25	11	685	11	674	-674	-1508	26	595	593	593	2	-9	26	26	26	26	26
JUN 26	11	684	11	673	-673	-1566	27	598	592	592	6	-5	27	27	27	27	27
JUN 27	10	683	10	673	-673	-1497	28	589	589	589	-10	-10	28	28	28	28	28
JUN 28	9	670	9	661	-661	-1802	29	582	582	582	10	31	29	29	29	29	29
JUN 29	7	661	7	654	-654	-1485	30	583	576	576	7	7	30	30	30	30	30
JUN 30	6	660	6	654	-654	-1418											

24 hour lag allowed between Coolidge/Ashurst-Hayden Dams.

12% transit loss on daily Stored releases...

# DETERMINATION OF PRIORITY WATER

## JULY 2017

Mean daily discharge - cubic feet per second

2017	SAN CARLOS RESERVOIR					ASHURST-HAYDEN DAM					DAILY CALL SYSTEM					VERSION 7.08
	RELEASES		STORAGE			Sluiced and/or Spilled		Nat. Flow Available			COMPUTED PRIORITY YEAR					
	River Inflow	Total	Natural Flow	Inflow Minus Outflow	Ac-ft S C Res.	JUL	Diverted	Stored	Natural Flow	Gain/Loss Nat. Flow	Nat. Flow Available to Project	JUL	Duncan Virden	Safford Immen	Winkelman Immen	
30	6	660	6	654	-654	-1418	1	582	576	6	6	1	"	"	"	"
1	6	660	6	654	-654	-1473	2	583	576	7	7	1	"	"	"	"
2	5	659	5	654	-654	-1713	3	583	576	7	3	2	"	"	"	"
3	5	659	5	654	-654	-1522	4	584	576	8	4	3	"	"	"	"
4	4	658	4	654	-654	-1456	5	583	576	7	5	3	"	"	"	"
5	4	658	4	654	-654	-1389	6	581	576	5	6	1	"	"	"	"
6	4	657	4	653	-653	-1625	7	575	575	4	7	-4	"	"	"	"
7	3	666	3	663	-663	-1498	8	588	583	5	8	2	"	"	"	"
8	3	674	3	671	-671	-1492	9	593	590	3	9	3	"	"	"	"
9	3	673	3	670	-670	-1782	10	582	582	-3	10	-3	"	"	"	"
10	8	673	8	665	-665	-1361	11	585	585	-8	11	-8	"	"	"	"
11	4	672	4	668	-668	-1355	12	604	588	16	12	12	"	"	"	"
12	4	672	4	668	-668	-1116	13	598	588	10	13	6	"	"	"	"
13	4	672	4	668	-668	-1287	14	608	588	20	14	16	"	"	"	"
14	3	662	3	659	-659	-1632	15	627	580	47	15	44	"	"	"	"
15	3	656	3	653	-653	-1566	16	478	478	232	16	232	"	"	"	"
16	3	656	3	653	-653	-1443	17	365	465	362	17	362	"	"	"	"
17	21	656	21	635	-635	-576	18	350	511	329	18	329	"	"	"	"
18	45	598	45	553	-553	-747	19	300	522	290	19	290	"	"	"	"
19	12	656	12	644	-644	-1432	20	200	517	188	20	188	1868	1868	1845	1845
20	169	655	169	486	-486	-1198	21	175	540	112	21	112	1875	1863	1845	1845
21	168	654	168	486	-486	-512	22	200	535	107	22	107	1886	1915	1868	1868
22	96	654	96	558	-558	-1079	23	250	543	491	23	491	1886	1915	1875	1875
23	187	658	187	471	-471	-1188	24	400	571	414	24	414	1886	1915	1875	1875
24	892	459	459	433	433	452	25	800	533	533	25	533	1886	1915	1875	1875
25	867	157	157	710	1246	1246	26	70	434	347	26	347	1886	1915	1875	1875
26	387	314	314	73	512	512	27	60	381	127	27	127	1886	1915	1875	1875
27	302	350	302	48	-48	-228	28	45	403	104	28	104	1886	1915	1875	1875
28	174	362	174	188	-188	285	29	45	421	165	29	165	1886	1915	1875	1875
29	598	348	348	250	250	-171	30	400	466	466	30	466	1886	1915	1875	1875
30	756	148	148	608	608	1139	31	350	522	522	31	522	1886	1915	1875	1875
31	1040	121	121	919	919	1314										

24 hour lag allowed between Coolidge/Ashurst-Hayden Dams.

12% transit loss on daily Stored releases...

# DETERMINATION OF PRIORITY WATER

## AUGUST 2017

Mean daily discharge - cubic feet per second

2017	SAN CARLOS RESERVOIR				ASHURST-HAYDEN DAM				DAILY CALL SYSTEM				VERSION 7.08				
	RELEASES		STORAGE		Sluiced and/or Spilled		Natural Flow		COMPUTED		PRIORITY YEAR						
	River Inflow	Total	Natural Flow	Stored	Inflow Minus Outflow	Ac-ft S C Res.	AUG	Diverted	Stored	Natural Flow	Gain/Loss Nat. Flow	Nat. Flow Available to Project		AUG	Duncan Virden	Safford	Winkelman
31	1040	121	121	919	1314	1	400	545	545	545	824	1864	1	1924	1924	1924	1924
AUG 1	868	224	224	644	745	2	150	424	424	424	200	1068	2	"	"	"	"
2	1190	278	278	912	977	3	300	514	514	514	386	1576	3	"	"	"	"
3	1430	279	279	1151	1442	4	100	466	466	466	487	1917	4	1921	1921	1921	1921
4	1050	309	309	741	1157	5	50	485	485	485	256	1306	5	1897	1897	1897	1897
5	490	320	320	170	58	6	30	394	394	394	124	614	6	1897	1897	1897	1897
6	296	318	296	22	-347	7	20	406	406	406	121	417	7	1888	1888	1888	1888
7	200	316	200	116	-116	8	150	403	403	403	121	321	8	1895	1895	1895	1895
8	141	315	141	174	-174	9	160	413	413	413	126	260	9	1894	1894	1894	1894
9	100	272	100	172	-172	10	20	377	377	377	126	226	10	1895	1895	1895	1895
10	74	242	74	168	-168	11	20	324	324	324	102	176	11	1895	1895	1895	1895
11	62	242	62	180	-180	12	20	376	376	376	156	218	12	1895	1895	1895	1895
12	46	241	46	195	-195	13	150	414	414	414	196	242	13	1924	1924	1924	1924
13	68	240	68	172	-172	14	160	362	362	362	293	361	14	"	"	"	"
14	428	239	239	189	-114	15	20	327	327	327	248	676	15	"	"	"	"
15	279	327	279	48	-48	16	20	338	338	338	37	316	16	"	"	"	"
16	293	345	293	52	-52	17	20	315	315	315	-24	269	17	1915	1915	1915	1915
17	296	318	296	22	-22	18	20	307	307	307	-8	288	18	1891	1891	1891	1891
18	243	318	243	75	-75	19	150	302	302	302	-7	236	19	1885	1885	1885	1885
19	176	318	176	142	-142	20	160	299	299	299	-2	174	20	1904b	1904b	1904b	1904b
20	128	318	128	190	-190	21	20	297	297	297	2	130	21	1894	1894	1894	1894
21	102	318	102	216	-216	22	20	295	295	295	3	105	22	1890	1890	1890	1890
22	87	459	87	372	-372	23	20	368	368	368	-46	41	23	1887	1887	1887	1887
23	87	580	87	493	-493	24	20	519	519	519	-2	85	24	1915	1915	1915	1915
24	52	584	52	532	-532	25	20	554	554	554	34	86	25	1873	1873	1873	1873
25	34	584	34	550	-550	26	20	540	540	540	22	56	26	1846	1846	1846	1846
26	34	583	34	549	-549	27	20	542	542	542	25	59	27	1883	1883	1883	1883
27	44	582	44	538	-538	28	20	541	541	541	24	68	28	1884	1884	1884	1884
28	146	581	146	435	-435	29	20	541	541	541	12	158	29	1886	1886	1886	1886
29	66	549	66	483	-483	30	20	521	521	521	30	96	30	1875	1875	1875	1875
30	39	529	39	490	-490	31	20	495	495	495	25	64	31	1885	1885	1885	1885
31	32	529	32	497	-497												

24 hour lag allowed between Coolidge/Ashurst-Hayden Dams. 12% transit loss on daily Stored releases...

# DETERMINATION OF PRIORITY WATER

## SEPTEMBER 2017

Mean daily discharge - cubic feet per second

2017	SAN CARLOS RESERVOIR				ASHURST-HAYDEN DAM				DAILY CALL SYSTEM				VERSION 7.08				
	RELEASES		STORAGE		Sluiced and/or Spilled		Natural Flow		COMPUTED PRIORITY YEAR		PRIORITY YEAR						
	River Inflow	Total	Natural Flow	Stored	Inflow Minus Outflow	Ac-ft S C Res.	SEP	Diverged	Stored	Natural Flow	Gain/Loss	Nat. Flow Available to Project		SEP	Duncan	Safford	Winkelman
AUG 31	32	529	32	497	-497	-940	1	486	437	49	17	49	1	1869	1885	1886	1886
SEP 1	132	499	132	367	-367	-1211	2	465	323	142	10	142	2	1883	1869	1875	1875
2	93	474	93	381	-381	-1095	3	437	335	102	9	102	3	"	1883	1885	1885
3	63	473	63	410	-410	-1135	4	432	361	71	8	71	4	"	"	1869	1869
4	46	473	46	427	-427	-1174	5	430	376	54	8	54	5	"	"	1883	1883
5	29	458	29	429	-429	-2260	6	418	378	40	11	40	6	1879	"	"	"
6	18	434	18	416	-416	-940	7	392	366	26	8	26	7	1875	1879	"	"
7	15	434	15	419	-419	-1077	8	389	369	20	5	20	8	1882	1875	"	"
8	15	434	15	419	-419	-1114	9	390	369	21	6	21	9	1878	1882	1879	1879
9	14	434	14	420	-420	-862	10	391	370	21	7	21	10	1880	1878	1875	1875
10	14	434	14	420	-420	-997	11	384	370	14	14	14	11	1881	1880	1882	1882
11	12	434	12	422	-422	-1079	12	382	371	11	-1	11	12	1875	1881	1878	1878
12	12	412	12	400	-400	-835	13	367	352	15	3	15	13	1868	1875	1880	1880
13	11	401	11	390	-390	-1011	14	351	343	8	-3	8	14	1846	1868	1881	1881
14	11	402	11	391	-391	-999	15	347	344	3	-8	3	15	Immem	1846	1875	1875
15	11	401	11	390	-390	-853	16	348	343	5	-6	5	16	"	Immem	1868	1868
16	11	402	11	391	-391	-933	17	348	344	4	-7	4	17	"	"	1846	1846
17	11	402	11	391	-391	-1098	18	345	344	1	-10	1	18	"	"	Immem	Immem
18	14	378	14	364	-364	-654	19	332	320	12	-2	12	19	"	"	"	"
19	19	364	19	345	-345	-826	20	312	304	8	-11	8	20	"	"	"	"
20	20	364	20	344	-344	-866	21	310	303	7	-13	7	21	"	"	"	"
21	21	365	21	344	-344	-906	22	308	303	5	-16	5	22	"	"	"	"
22	22	334	22	312	-312	-772	23	293	275	18	-4	18	23	"	"	"	"
23	21	320	21	299	-299	-684	24	275	263	12	-9	12	24	"	"	"	"
24	21	320	21	299	-299	-767	25	276	263	13	-8	13	25	"	"	"	"
25	22	304	22	282	-282	-128	26	266	248	18	-4	18	26	"	"	"	"
26	23	293	23	270	-270	-551	27	252	238	14	-9	14	27	"	"	"	"
27	24	293	24	269	-269	-1267	28	251	237	14	-10	14	28	"	"	"	"
28	25	292	25	267	-267	-504	29	249	235	14	-11	14	29	"	"	"	"
29	25	292	25	267	-267	-84	30	249	235	14	-11	14	30	"	"	"	"
30	25	291	25	266	-266	-586		249	235	14	-11	14					

24 hour lag allowed between Coolidge/Ashurst-Hayden Dams. 12% transit loss on daily Stored releases...

# DETERMINATION OF PRIORITY WATER

## OCTOBER 2017

Mean daily discharge - cubic feet per second

2017	SAN CARLOS RESERVOIR										ASHURST-HAYDEN DAM					DAILY CALL SYSTEM					VERSION 7.08
	RELEASES					STORAGE					Sluiced and/or Spilled					COMPUTED PRIORITY YEAR					
	River Inflow	Total	Natural Flow	Stored	Inflow Minus Outflow	Ac-ft change S C Res.	OCT	Diverted	Stored	Natural Flow	Gain/Loss Nat. Flow	Nat. Flow Available to Project	OCT	Duncan Virden	Safford	Winkelman	Ashurst-Hayden				
SEP 30	25	291	25	266	-266	-586	1	246	234	12	-13	12	1	Immem	Immem	Immem	Immem				
OCT 1	26	291	26	265	-265	-627	2	246	233	13	-13	13	2	"	"	"	"				
2	31	271	31	240	-240	-541	3	238	211	27	-4	27	3	"	"	"	"				
3	31	258	31	227	-227	-1159	4	224	200	24	-7	24	4	"	"	"	"				
4	30	258	30	228	-228	82	5	223	201	22	-8	22	5	1873	"	"	"				
5	29	258	29	229	-229	-495	6	219	202	17	-12	17	6	1896	1873	"	"				
6	85	258	85	173	-173	-575	7	218	152	66	-19	66	7	Immem	1896	"	"				
7	106	257	106	151	-151	-370	8	217	133	84	-22	84	8	"	Immem	1873	1873				
8	91	257	91	166	-166	-491	9	220	146	74	-17	74	9	"	"	1896	1896				
9	74	257	74	183	-183	-449	10	216	161	55	-19	55	10	"	"	Immem	Immem				
10	65	257	65	192	-192	-447	11	217	169	48	-17	48	11	"	"	"	"				
11	59	257	59	198	-198	-447	12	218	174	44	-15	44	12	"	"	"	"				
12	54	257	54	203	-203	-445	13	217	179	38	-16	38	13	"	"	"	"				
13	51	256	51	205	-205	-445	14	217	180	37	-14	37	14	"	"	"	"				
14	50	256	50	206	-206	-523	15	217	181	36	-14	36	15	"	"	"	"				
15	46	256	46	210	-210	-442	16	216	185	31	-15	31	16	"	"	"	"				
16	42	256	42	214	-214	-601	17	216	188	28	-14	28	17	"	"	"	"				
17	40	256	40	216	-216	-797	18	217	190	27	-13	27	18	"	"	"	"				
18	41	256	41	215	-215	-437	19	217	189	28	-13	28	19	"	"	"	"				
19	41	255	41	214	-214	-476	20	218	188	30	-11	30	20	"	"	"	"				
20	41	256	41	215	-215	-553	21	217	189	28	-13	28	21	"	"	"	"				
21	40	255	40	215	-215	-669	22	217	189	28	-12	28	22	"	"	"	"				
22	38	255	38	217	-217	-275	23	218	191	27	-11	27	23	"	"	"	"				
23	39	255	39	216	-216	-509	24	218	190	28	-11	28	24	"	"	"	"				
24	39	255	39	216	-216	-429	25	213	190	23	-16	23	25	"	"	"	"				
25	39	255	39	216	-216	-740	26	215	190	25	-14	25	26	"	"	"	"				
26	41	255	41	214	-214	-621	27	217	189	28	-13	28	27	"	"	"	"				
27	42	211	42	169	-169	-232	28	200	148	52	10	52	28	"	"	"	"				
28	44	181	44	138	-138	-116	29	161	121	40	-4	40	29	1846	"	"	"				
29	44	181	44	137	-137	-387	30	158	120	38	-6	38	30	1869	1846	"	"				
30	46	181	46	135	-135	-385	31	158	119	39	-7	39	31	Immem	1869	"	"				
31	47	181	47	134	-134	-501															

24 hour lag allowed between Coolidge/Ashurst-Hayden Dams. 12% transit loss on daily stored releases...

# DETERMINATION OF PRIORITY WATER

## NOVEMBER 2017

Mean daily discharge - cubic feet per second

2017	SAN CARLOS RESERVOIR				ASHURST-HAYDEN DAM				DAILY CALL SYSTEM				VERSION 7.08				
	RELEASES		STORAGE		Sluiced and/or Spilled		Natural Flow		COMPUTED PRIORITY YEAR								
	River Inflow	Total	Natural Flow	Stored	Inflow Minus Outflow	Ac-ft change S C Res.	NOV	Diverted	Stored	Natural Flow	Gain/Loss Nat. Flow to Project	Nat. Flow Available to Project		NOV	Duncan Virden	Safford	Winkelman
31	47	181	47	134	-134	-501	1	157	118	39	-8	39	1	Immem	Immem	1846	1846
1	47	181	47	134	-134	-346	2	156	118	38	-9	38	2	1846	"	1869	1869
2	49	187	49	138	-138	-115	3	158	121	37	-12	37	3	Immem	1846	Immem	Immem
3	50	198	50	148	-148	-363	4	169	130	39	-11	39	4	"	Immem	"	"
4	51	198	51	147	-147	-268	5	171	129	42	-9	42	5	"	"	1846	1846
5	53	198	53	145	-145	-458	6	171	128	43	-10	43	6	"	"	Immem	Immem
6	54	198	54	144	-144	-191	7	172	127	45	-9	45	7	1869	"	"	"
7	55	198	55	143	-143	-418	8	173	126	47	-8	47	8	1893	1869	"	"
8	55	198	55	143	-143	-342	9	172	126	46	-9	46	9	Immem	1893	"	"
9	57	197	57	140	-140	-380	10	171	123	48	-9	48	10	1846	Immem	1869	1869
10	58	197	58	139	-139	-227	11	171	122	49	-9	49	11	1895	1846	1893	1893
11	60	197	60	137	-137	-453	12	172	121	51	-9	51	12	Immem	1895	Immem	Immem
12	63	197	63	134	-134	-227	13	172	118	54	-9	54	13	1846	Immem	1846	1846
13	65	197	65	132	-132	-301	14	172	116	56	-9	56	14	Immem	1846	1895	1895
14	65	197	65	132	-132	-377	15	172	116	56	-9	56	15	1868	Immem	Immem	Immem
15	66	196	66	130	-130	-225	16	173	114	59	-7	59	16	1869	1868	1846	1846
16	68	196	68	128	-128	-263	17	173	113	60	-8	60	17	"	1869	Immem	Immem
17	69	196	69	127	-127	-262	18	174	112	62	-7	62	18	1878	"	1868	1868
18	69	196	69	127	-127	-449	19	174	112	62	-7	62	19	1875	1878	1869	1869
19	70	196	70	126	-126	-224	20	174	111	63	-7	63	20	1869	1875	"	"
20	71	195	71	125	-125	-372	21	176	110	66	-5	66	21	1890	1869	1878	1878
21	73	196	73	123	-123	-186	22	176	108	68	-5	68	22	1892	1890	1875	1875
22	75	196	75	121	-121	-409	23	175	106	69	-6	69	23	1890	1892	1889	1889
23	79	196	79	117	-117	-223	24	176	103	73	-6	73	24	1892	1890	1890	1890
24	83	196	83	113	-113	-148	25	177	99	78	-5	78	25	1890	1892	1892	1892
25	86	196	86	110	-110	-407	26	177	97	80	-6	80	26	1894	1890	1890	1890
26	89	195	89	106	-106	-222	27	177	93	84	-5	84	27	1907	1894	1892	1892
27	91	195	91	104	-104	-406	28	178	92	86	-5	86	28	1911	1907	1890	1890
28	93	196	93	103	-103	-73	29	179	91	88	-5	88	29	1895	1911	1894	1894
29	95	195	95	100	-100	-295	30	179	88	91	-4	91	30	1907	1895	1907	1907
30	96	195	96	99	-99	-220											

24 hour lag allowed between Coolidge/Ashurst-Hayden Dams. 12% transit loss on daily Stored releases...

# DETERMINATION OF PRIORITY WATER

## DECEMBER 2017

Mean daily discharge - cubic feet per second

2017	SAN CARLOS RESERVOIR										ASHURST-HAYDEN DAM					DAILY CALL SYSTEM					VERISON 7.08
	RELEASES					STORAGE					COMPUTED PRIORITY YEAR										
	River Inflow	Total	Natural Flow	Stored	Inflow Minus Outflow	Ac-ft change S C Res.	DEC	Sluiced and/or Spilled	Diverted	Stored	Natural Flow	Gain/Loss Nat. Flow	Nat. Flow Available to Project	DEC	Duncan Virden	Safford	Winkelman	Ashurst-Hayden			
NOV 30	96	195	96	99	-99	-220	1	180	87	93	-3	93	1	1907	1907	1911	1911				
DEC 1	99	197	99	98	-98	-257	2	180	86	94	-5	94	2	"	"	1895	1895				
DEC 2	101	197	101	96	-96	-183	3	180	84	96	-5	96	3	1915	"	1907	1907				
DEC 3	98	197	98	99	-99	-476	4	181	87	94	-4	94	4	1912	1915	"	"				
DEC 4	95	194	95	99	-99	-183	5	181	87	94	-1	94	5	"	1912	"	"				
DEC 5	94	197	94	103	-103	-291	6	178	91	87	-7	87	6	1915	"	1915	1915				
DEC 6	97	171	97	74	-74	-146	7	161	65	96	-1	96	7	"	1915	1912	1912				
DEC 7	101	168	101	67	-67	-255	8	161	59	102	1	102	8	"	"	"	"				
DEC 8	103	168	103	65	-65	-254	9	163	57	106	3	106	9	"	"	1915	1915				
DEC 9	105	190	105	85	-85	-218	10	169	75	94	-11	94	10	"	"	"	"				
DEC 10	106	205	106	99	-99	-181	11	191	87	104	-2	104	11	"	"	"	"				
DEC 11	111	205	111	94	-94	-254	12	190	83	107	-4	107	12	"	"	"	"				
DEC 12	117	205	117	88	-88	-217	13	191	77	114	-3	114	13	"	"	"	"				
DEC 13	120	206	120	86	-86	-181	14	191	76	115	-5	115	14	"	"	"	"				
DEC 14	121	184	121	63	-63	-180	15	186	55	131	10	131	15	1921	"	"	"				
DEC 15	124	177	124	53	-53	-144	16	162	47	115	-9	115	16	1915	1921	"	"				
DEC 16	127	188	127	61	-61	-180	17	176	54	122	-5	122	17	1921	1915	"	"				
DEC 17	129	188	129	59	-59	-72	18	178	52	126	-3	126	18	"	1921	1921	1921				
DEC 18	132	188	132	56	-56	-144	19	177	49	128	-4	128	19	1921	"	1915	1915				
DEC 19	138	189	138	51	-51	-108	20	177	45	132	-6	132	20	"	"	1921	1921				
DEC 20	139	189	139	50	-50	-144	21	177	44	133	-6	133	21	"	"	"	"				
DEC 21	139	189	139	50	-50	-359	22	177	44	133	-6	133	22	"	"	"	"				
DEC 22	140	74	74	67	67	36	23	159	48	133	86	226	23	"	"	"	"				
DEC 23	141	74	74	141	141	323	24	48	48	133	48	189	24	1915	"	"	"				
DEC 24	142	74	74	142	142	288	25	15	15	133	60	202	25	1924	1924	1924	1924				
DEC 25	142	74	74	142	142	432	26	30	14	133	44	186	26	"	"	"	"				
DEC 26	142	74	74	142	142	180	27	30	12	133	42	184	27	"	"	1915	1915				
DEC 27	145	74	74	145	145	181	28	25	4	133	4	174	28	"	"	1921	1921				
DEC 28	143	74	74	143	143	72	29	25	0	133	0	117	29	"	"	1924	1924				
DEC 29	141	74	74	141	141	253	30	20	20	133	-23	119	30	"	"	"	"				
DEC 30	139	74	74	139	139	218	31	20	20	133	20	159	31	"	"	"	"				
DEC 31	144	74	74	144	144	181															

24 hour lag allowed between Coolidge/Ashurst-Hayden Dams.

12% transit loss on daily Stored releases...



**RELATIVE DIVERSION RIGHT BASED ON DIVERSION RIGHT  
OF ONE CUBIC FOOT PER SECOND FOR EACH EIGHTY ACRES**

THEN BEING IRRIGATED

Year of Prior.	Duncan Valley		Safford Valley		Total Upper Valleys		San Carlos Indian Reserve		Wineman Valley		Total USA TBI	Year or of Prior.									
	Decred	TBI 2017	Decred	TBI 2017	Decred	TBI 2017	Decred	TBI 2017	ASARCO Ind.*	KEARNY Ind.*			AG LANDS	TBI 2017	GRIC Decred	GRIC TBI	SCIDD Decred	SCIDD TBI	Total Decred	Total TBI	
1846														437.5	437.5			437.5	229.5	229.5	Immem. Rights
1868														449.5	449.5			449.5	233.1	233.1	1846
1869														480.2	480.2			480.2	237.8	237.8	1868
1872														467.7	467.7			467.7	242.0	242.0	1869
1873														483.2	483.2			483.2	245.3	245.3	1872
1874	6.3	4.7												489.9	489.9			489.9	242.2	242.2	1873
1875														483.2	483.2			483.2	246.5	246.5	1874
1876														483.2	483.2			483.2	246.5	246.5	1875
1877														483.2	483.2			483.2	246.5	246.5	1876
1878														483.2	483.2			483.2	246.5	246.5	1877
1879														483.2	483.2			483.2	246.5	246.5	1878
1880	12.1	8.9												483.2	483.2			483.2	246.5	246.5	1879
1881	13.2	8.7												483.2	483.2			483.2	246.5	246.5	1880
1882														483.2	483.2			483.2	246.5	246.5	1881
1883														483.2	483.2			483.2	246.5	246.5	1882
1884	13.7	9.9												483.2	483.2			483.2	246.5	246.5	1883
1885	19.3	13.1												483.2	483.2			483.2	246.5	246.5	1884
1886	22.2	14.7												483.2	483.2			483.2	246.5	246.5	1885
1887	22.9	15.3												483.2	483.2			483.2	246.5	246.5	1886
1888	30.5	19.3												483.2	483.2			483.2	246.5	246.5	1887
1889	31.8	20.1												483.2	483.2			483.2	246.5	246.5	1888
1890														483.2	483.2			483.2	246.5	246.5	1889
1891														483.2	483.2			483.2	246.5	246.5	1890
1892														483.2	483.2			483.2	246.5	246.5	1891
1893														483.2	483.2			483.2	246.5	246.5	1892
1894														483.2	483.2			483.2	246.5	246.5	1893
1895														483.2	483.2			483.2	246.5	246.5	1894
1896														483.2	483.2			483.2	246.5	246.5	1895
1897														483.2	483.2			483.2	246.5	246.5	1896
1898														483.2	483.2			483.2	246.5	246.5	1897
1899														483.2	483.2			483.2	246.5	246.5	1898
1900														483.2	483.2			483.2	246.5	246.5	1899
1901														483.2	483.2			483.2	246.5	246.5	1900
1902														483.2	483.2			483.2	246.5	246.5	1901
1903														483.2	483.2			483.2	246.5	246.5	1902
1904														483.2	483.2			483.2	246.5	246.5	1903
1905														483.2	483.2			483.2	246.5	246.5	1904
1906														483.2	483.2			483.2	246.5	246.5	1905
1907														483.2	483.2			483.2	246.5	246.5	1906
1908														483.2	483.2			483.2	246.5	246.5	1907
1909														483.2	483.2			483.2	246.5	246.5	1908
1910														483.2	483.2			483.2	246.5	246.5	1909
1911														483.2	483.2			483.2	246.5	246.5	1910
1912														483.2	483.2			483.2	246.5	246.5	1911
1913														483.2	483.2			483.2	246.5	246.5	1912
1914														483.2	483.2			483.2	246.5	246.5	1913
1915														483.2	483.2			483.2	246.5	246.5	1914
1916														483.2	483.2			483.2	246.5	246.5	1915
1917														483.2	483.2			483.2	246.5	246.5	1916
1918														483.2	483.2			483.2	246.5	246.5	1917
1919														483.2	483.2			483.2	246.5	246.5	1918
1920														483.2	483.2			483.2	246.5	246.5	1919
1921														483.2	483.2			483.2	246.5	246.5	1920
1924														483.2	483.2			483.2	246.5	246.5	1921
1926														483.2	483.2			483.2	246.5	246.5	1924
1929														483.2	483.2			483.2	246.5	246.5	1926
Total	180.6	52.9	384.6	281.9	507.0	334.8	12.5	3.6	22.2	1.3	5.5	0.0	1256.5	437.5	229.5	246.2	1793.2	837.5	475.7	475.7	Immem. Rights
TBI ACRES	4,224.24	2,660.28	26,744.82	26,744.82	26,744.82	26,744.82	265.20	71.48%	101.73	0.00%	50,546.00	ALL IRRIGATED	18,361.17	47,844%	19,854.37	65,227.19	65,227.19	65,227.19	65,227.19	65,227.19	TOTAL ACRES
% REDUCTION	47.48%	29.26%	33.96%	33.96%	33.96%	33.96%	28.52%	5.77%	5.77%	0.00%	100.00%	GRIC BASED ON 35,000 ACRES IMMEMORIAL	47.844%	62.46%	60.95%	62.46%	62.46%	62.46%	62.46%	62.46%	% REDUCTION
% ACRES TBI	52.92%	70.74%	86.04%	86.04%	86.04%	86.04%	28.52%	5.77%	5.77%	0.00%	100.00%	GRIC BASED ON 35,000 ACRES IMMEMORIAL	62.46%	62.46%	60.95%	62.46%	62.46%	62.46%	62.46%	62.46%	% ACRES TBI

Note: \* Industrial and Municipal use. Modified effective August 1, 2014 in accordance with Court Order.



### RELATIVE DIVERSION RIGHT FOR SAFFORD VALLEY

Based on one cubic foot per second for each eighty acres

THEN BEING IRRIGATED

Year	Consolidated Brown		Fourness		San Jose		Montezuma		Union-Sunflower		Graham		Smithville		Dodge-Neavada		Curtis		Fort Thomas		Coville-Jones		Total	
	Decreed	TBI	Decreed	TBI	Decreed	TBI	Decreed	TBI	Decreed	TBI	Decreed	TBI	Decreed	TBI	Decreed	TBI	Decreed	TBI	Decreed	TBI	Decreed	TBI	Decreed	TBI
1872							0.4	0.3															0.4	0.3
1873							1.0	0.7															1.0	0.7
1874	0.5	0.3			1.2	0.9	2.8	1.9	3.4	2.3												3.4	2.3	
1875	1.0	0.6			3.8	3.0	6.1	4.2	4.7	3.1	0.4	0.3										4.7	3.1	
1876	1.2	0.7			7.5	5.9	7.3	5.0	6.4	4.3	0.6	0.5										6.4	4.3	
1877	2.1	1.3			10.0	7.8	11.3	7.8	7.9	5.3	0.8	0.7			0.9	0.7						7.9	5.3	
1878	2.8	1.5			11.2	8.8	13.8	9.5	11.1	7.4	0.9	0.9			1.0	0.8						11.1	7.4	
1879	3.0	1.8			13.8	10.8	17.6	12.2	11.2	7.5	1.1	0.9			1.2	1.0						11.2	7.5	
1880	3.6	2.2			15.0	11.8	18.7	12.9	13.5	9.0	1.8	1.5			3.6	1.5						13.5	9.0	
1881	4.0	2.5			16.2	12.7	19.0	13.1	15.4	10.9	2.1	1.7			6.6	3.2						15.4	10.9	
1882	4.8	2.9			18.8	14.7	20.2	14.0	17.7	11.8	3.3	2.7			8.1	4.4						17.7	11.8	
1883	5.2	3.2			20.0	15.7	20.8	14.4	25.1	16.7	5.0	4.1			10.7	5.5						25.1	16.7	
1884	5.9	3.6			22.5	17.6	21.3	14.7	30.7	20.4	5.1	4.2			11.9	6.6						30.7	20.4	
1885	6.4	3.9			23.8	18.6	23.8	15.1	37.9	25.2	6.5	5.3			12.4	7.8						37.9	25.2	
1886	6.8	4.2			25.8	19.6	25.8	15.8	46.2	30.8	9.9	8.1			13.2	8.9						46.2	30.8	
1887	8.4	5.2			28.0	21.6	28.0	16.5	50.3	33.5	10.9	8.9			13.9	10.0						50.3	33.5	
1888	8.6	5.3			25.0	19.6	24.3	16.8	52.4	34.9	11.8	9.5			15.3	11.1						52.4	34.9	
1889	8.7	5.3			25.6	20.1	25.0	17.3	58.3	38.8	13.4	10.9			12.2	9.7						58.3	38.8	
1890	9.3	5.7			28.4	22.3	29.3	17.8	64.3	42.8	14.5	11.8			16.3	13.4						64.3	42.8	
1891	11.5	7.1	2.0	2.0	26.7	20.9	26.6	19.4	66.9	44.5	17.4	14.2			14.0	11.2						66.9	44.5	
1892	12.1	7.4			27.7	21.7	27.3	19.9	68.5	45.6	19.4	15.8			16.5	14.4						68.5	45.6	
1893	13.1	8.0			28.4	23.3	28.8	19.9	69.9	46.5	20.0	16.3			20.6	18.7						69.9	46.5	
1894	13.2	8.1			29.6	23.2	29.3	20.3	70.5	46.9	22.9	18.7			17.4	14.7						70.5	46.9	
1895	14.8	9.1			29.6	23.2	30.8	21.3	70.6	47.0	24.0	19.6			21.4	17.4						70.6	47.0	
1896	14.8	9.1			29.6	23.2	30.8	21.3	70.6	47.0	24.0	19.6			21.4	17.4						70.6	47.0	
1897	15.4	9.4			29.6	23.2	32.1	22.2	70.7	47.1	24.6	20.1			17.7	14.9						70.7	47.1	
1898	15.4	9.4			30.3	23.7	35.6	24.6	70.8	47.1	25.3	21.5			20.6	16.8						70.8	47.1	
1900	15.9	9.7			31.7	24.8	39.3	27.2	71.1	47.1	27.1	22.1			18.2	15.6						71.1	47.1	
1901	15.9	9.7			33.0	25.9	40.4	27.9	70.9	47.2	27.6	22.5			18.2	15.6						70.9	47.2	
1902					34.4	27.0	44.0	30.4	71.0	47.3	28.1	23.0			17.7	14.9						71.0	47.3	
1903					35.5	27.8	45.2	31.3	71.0	47.3	28.1	23.0			17.7	14.9						71.0	47.3	
1904					39.6	31.0	45.4	31.4	72.0	47.9	34.5	28.2			20.4	18.2						72.0	47.9	
1905					41.3	32.4	57.3	39.6	72.2	48.1	35.7	29.2			19.0	16.8						72.2	48.1	
1906					42.4	33.2	62.4	42.4	73.0	48.6	37.5	30.6			20.4	18.2						73.0	48.6	
1907					43.3	33.9	57.4	39.7	73.0	48.6	37.5	30.6			20.4	18.2						73.0	48.6	
1908					48.2	37.8	57.5	39.8	86.1	57.3	38.8	31.7			22.2	17.8						86.1	57.3	
1909					48.4	37.9	57.5	39.8	86.2	57.4	38.8	31.7			22.2	17.8						86.2	57.4	
1910					49.3	38.6	57.5	39.8	86.2	57.4	38.8	31.7			22.2	17.8						86.2	57.4	
1911					50.2	39.3	57.5	39.8	86.9	57.9	42.2	34.5			23.9	17.8						86.9	57.9	
1912					50.8	39.8	57.5	39.8	86.9	57.9	42.2	34.5			23.9	17.8						86.9	57.9	
1913																								
1914																								
1915																								
1916																								
1917																								
1918																								
1919																								
1920																								
Total	16.5	10.2	2.6	2.0	51.6	40.4	56.5	40.7	90.3	60.1	52.7	43.0			24.8	31.5	24.5				90.3	60.1	394.8	281.9
DECREED ACRES	1,326.90	210.70			4,131.21		4,715.78		7,220.84		4,272.88		2,428.63		2,516.64		1,971.70		2,634.30			2,634.30		31,570.18
TBI ACRES	813.54	151.40			2,236.64		3,445.15		4,800.09		3,445.15		1,978.44		2,007.60		1,595.34		1,263.50			1,263.50		22,560.38
% REDUCTION	38.69%	23.40%			21.65%		30.86%		18.32%		18.32%		18.56%		20.22%		19.08%		52.23%			52.23%		28.54%
% ACRES TBI	61.31%	76.60%			78.35%		69.14%		81.68%		81.68%		81.44%		79.78%		80.92%		47.77%			47.77%		71.46%

Note: For blank spaces use first figure above. Modified effective August 1, 2014 in accordance with Court Order.

# 2017

## COMPARISON OF U.S.G.S. 2015 DATA TO FINAL DATA

Negative number means revised down from original data.

STATION	JAN REVISED AC-FT	FEB REVISED AC-FT	MAR REVISED AC-FT	APR REVISED AC-FT	MAY REVISED AC-FT	JUN REVISED AC-FT	JUL REVISED AC-FT	AUG REVISED AC-FT	SEP REVISED AC-FT	OCT REVISED AC-FT	NOV REVISED AC-FT	DEC REVISED AC-FT	TOTAL REVISED AC-FT
Gila Below Blue Creek	-1404	1026	64	-186	-6	-35	87	-62	-4	-4	-6	75	-454
Gila River Near Clifton	8787	-4593	514	26	-6	-3	-15	-18	-4	-2	-5	-7	4675
San Francisco River @ Clifton	-2989	4495	1136	-7	-5	-2	-11	-28	-6	7	8	27	2625
Head of Safford Valley	58	-7644	-3260	-448	-18	-5	-29	-138	57	14	145	-8	-11275
Gila @ Calva	-162	-273	-91	-24	-33	-32	637	-35	-4	-37	-7	-16	-77
San Carlos River @ Peridot	-30	-133	-7	0	11	0	-1	1	0	0	0	0	-158
Gila Below Coolidge Dam	46	654	-46	-46	-28	-67	-170	3085	-33	-29	-16	-142	3208
Gila @ Kelvin	-40	-151	-38	-48	261	205	-1428	-695	-3279	58	-15	-20	-5191
Florence Casa Grande Canal	-303	66	-47	-15	406	342	-77	-261	-37	-22	-20	-125	-93

# 2017

## Gila River Below Blue Creek Near Virden, New Mexico

Mean daily diversions, cubic feet per second

2017 DAY	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	570	837	808	308	138	34	21	178	72	31	45	47
2	734	897	716	298	127	37	19	370	64	32	45	54
3	788	944	625	289	117	36	16	317	59	30	41	63
4	694	945	570	280	107	37	16	256	48	31	37	66
5	612	947	521	258	104	38	12	193	47	32	38	63
6	560	944	490	240	96	35	9.5	149	45	34	39	56
7	529	991	477	228	96	33	7.9	119	47	35	43	54
8	508	945	478	226	95	33	6.6	102	43	38	54	69
9	477	977	488	220	96	33	5.7	87	42	39	55	79
10	466	1120	488	212	94	36	5.3	82	48	35	54	83
11	447	1280	498	213	89	36	4.3	78	43	31	54	82
12	429	1400	513	215	82	34	10	93	40	31	53	82
13	419	1600	528	216	79	34	18	116	40	29	53	84
14	406	3660	535	218	80	31	6.7	270	35	32	55	89
15	659	3840	531	213	80	30	68	287	32	37	53	92
16	2050	2940	527	204	82	27	74	240	33	41	53	90
17	2390	2300	524	197	80	23	31	196	38	43	51	92
18	1830	1930	510	183	81	21	36	167	39	40	52	93
19	1400	1730	499	178	76	19	56	134	37	37	56	92
20	1120	1710	499	178	72	19	75	154	34	33	62	94
21	1980	1700	493	170	70	17	226	109	32	42	66	93
22	1910	1640	487	172	70	16	121	108	27	42	71	88
23	1460	1600	473	176	64	15	132	103	27	40	77	91
24	1980	1550	470	182	59	15	234	184	30	37	78	88
25	2460	1390	463	148	56	15	144	119	42	32	75	80
26	1770	1190	423	140	57	21	103	99	45	35	74	77
27	1310	1020	386	150	53	56	128	120	38	34	72	74
28	1070	912	372	148	46	73	207	120	34	33	71	85
29	945		354	145	41	34	346	156	32	40	63	88
30	880		339	148	38	24	381	90	31	43	53	86
31	861		320		36		183	75		43		88
<b>Total</b>	33,714	42,939	15,405	6,153	2,461	911	2,703.2	4,872	1,223	1,111	1,689	2,459
<b>Ac-ft</b>	66,872	85,170	30,556	12,204	4,881	1,808	5,362	9,663	2,425	2,203	3,350	4,878

Total for the Year: 229,371 ac-ft

Drainage area - 3,203 sq. mi., excluding Animas River Basin

# 2017

## GILA RIVER NEAR CLIFTON, ARIZONA

Mean daily diversions, cubic feet per second

2017 DAY	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	489	839	755	270	101	30	32	379	85	24	35	70
2	619	899	680	263	97	29	29	214	77	24	37	63
3	787	992	615	259	94	28	28	310	69	23	40	61
4	752	1,040	567	251	86	28	28	241	57	90	41	64
5	647	1,060	524	242	80	27	28	196	48	193	43	66
6	567	1,070	484	232	74	27	28	138	41	35	43	66
7	488	1,060	451	224	70	27	29	105	38	27	45	66
8	451	1,050	438	213	67	27	28	86	35	26	47	69
9	425	1,020	434	201	65	27	29	77	33	25	47	73
10	395	1,120	438	191	64	26	30	66	38	25	48	81
11	375	1,300	441	185	62	25	29	62	46	25	49	85
12	353	1,440	448	182	60	25	31	111	42	25	47	88
13	344	1,520	469	177	57	24	33	93	39	24	48	90
14	330	1,870	485	171	53	24	35	92	36	23	50	92
15	346	2,910	489	165	49	24	35	193	37	22	51	94
16	965	2,960	486	158	47	24	62	189	39	24	52	96
17	1,970	2,290	487	155	47	24	80	155	34	24	53	101
18	1,740	1,900	471	150	46	23	51	132	32	25	53	101
19	1,380	1,690	458	142	44	24	113	120	31	26	51	100
20	1,150	1,630	450	132	41	24	192	127	29	26	53	100
21	1,280	1,610	445	127	39	25	91	131	29	25	59	100
22	1,940	1,570	438	122	38	24	292	104	28	25	64	100
23	1,430	1,500	430	119	36	23	131	94	27	26	66	99
24	1,380	1,450	413	118	35	23	172	110	26	26	69	100
25	1,990	1,380	413	120	34	23	228	162	26	28	72	100
26	1,780	1,220	393	112	33	23	131	169	25	28	73	97
27	1,290	1,060	365	107	32	39	96	131	25	28	74	92
28	997	918	342	103	31	30	241	100	25	29	77	90
29	832		316	103	30	29	481	101	24	30	75	93
30	710		300	97	30	32	461	129	24	31	74	96
31	655		287		29		344	103		33		97
<b>Total</b>	<b>28,857</b>	<b>40,368</b>	<b>14,212</b>	<b>5,091</b>	<b>1,671</b>	<b>787</b>	<b>3,617</b>	<b>4,419</b>	<b>1,143</b>	<b>1,044</b>	<b>1,635</b>	<b>2,686</b>
<b>Ac-ft</b>	<b>57,238</b>	<b>80,070</b>	<b>28,190</b>	<b>10,098</b>	<b>3,314</b>	<b>1,561</b>	<b>7,175</b>	<b>8,764</b>	<b>2,268</b>	<b>2,071</b>	<b>3,242</b>	<b>5,328</b>

Total for the Year: 209,318 ac-ft

Drainage area - 4,010 sq. mi.

# 2017

## SAN FRANCISCO RIVER AT CLIFTON, ARIZONA

Mean daily diversions, cubic feet per second

2017 DAY	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	340	420	528	234	83	36	12	529	118	43	39	42
2	589	460	472	222	78	38	12	1,070	100	40	40	41
3	463	490	428	199	72	38	12	598	87	38	38	41
4	364	489	395	180	68	36	13	353	74	38	37	41
5	319	509	367	175	67	30	14	219	67	72	35	43
6	289	517	353	159	63	27	15	153	60	96	34	45
7	292	537	340	157	61	25	12	112	56	69	37	43
8	276	519	336	160	59	21	10	85	52	61	35	41
9	262	517	330	159	60	19	11	75	41	52	41	41
10	283	593	330	162	62	18	11	69	41	48	43	43
11	294	685	349	157	63	18	13	64	41	46	44	41
12	287	745	380	154	62	18	16	333	39	46	43	42
13	277	1,400	408	151	59	19	18	803	39	38	41	43
14	267	2,230	418	151	55	16	21	460	39	38	41	46
15	280	2,000	432	152	52	14	66	401	37	36	41	43
16	488	1,380	445	149	52	14	42	417	35	40	38	43
17	533	1,100	456	141	52	14	54	300	36	40	39	48
18	503	911	450	135	48	13	85	215	40	40	40	52
19	485	1,140	447	125	47	13	107	165	39	33	40	52
20	438	1,200	446	122	46	14	74	135	34	33	42	52
21	1,200	1,110	443	121	46	13	128	121	30	36	43	52
22	1,160	1,020	438	119	45	13	73	102	33	31	44	52
23	1,010	968	427	109	42	13	233	85	32	36	42	52
24	1,690	859	394	103	39	15	193	77	32	36	44	52
25	1,330	739	344	101	37	15	168	84	39	37	41	52
26	762	684	302	99	31	14	105	79	41	35	42	52
27	548	612	272	94	34	15	104	94	39	37	41	53
28	444	566	252	90	34	14	490	76	41	36	40	50
29	380		246	89	35	14	286	72	55	37	40	51
30	362		232	88	34	13	507	282	56	41	44	52
31	382		221		34		476	164		39		52
<b>Total</b>	16,597	24,400	11,681	4,257	1,620	580	3,378	7,791	1,472	1,346	1,211	1,452
<b>Ac-ft</b>	32,920	48,397	23,169	8,444	3,213	1,150	6,701	15,454	2,919	2,670	2,403	2,881

Total for the Year: 150,321 ac-ft

Drainage area - 2,766 sq. mi.

# 2017

## GILA RIVER AT HEAD OF SAFFORD VALLEY, NEAR SOLOMON, ARIZONA

Mean daily diversions, cubic feet per second

2017 DAY	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	736	1,250	1,500	496	205	73	41	914	222	87	81	127
2	1,000	1,360	1,340	485	196	75	39	1,600	191	80	82	121
3	1,200	1,500	1,200	469	187	75	38	947	170	77	85	117
4	1,130	1,560	1,070	445	176	73	37	631	150	75	86	116
5	968	1,580	1,010	433	168	70	38	454	131	245	89	121
6	845	1,560	948	421	158	66	38	326	117	142	87	124
7	760	1,560	883	410	150	64	38	251	106	111	88	123
8	682	1,530	829	395	146	63	36	202	100	98	93	126
9	626	1,500	730	382	146	59	35	173	96	90	94	129
10	579	1,620	735	379	145	57	42	158	86	81	99	136
11	547	1,830	733	375	144	55	38	145	93	77	101	142
12	524	2,020	749	373	139	54	36	249	87	78	101	142
13	499	2,360	786	358	132	53	39	714	83	75	100	144
14	476	3,900	820	353	125	52	42	513	79	71	101	146
15	451	5,350	834	344	118	50	50	515	78	67	102	148
16	865	5,610	844	333	114	48	66	531	78	67	103	149
17	1,910	4,150	856	323	113	47	88	454	77	68	102	156
18	2,180	3,250	849	313	109	46	86	355	75	69	103	162
19	1,830	2,870	834	299	103	45	127	293	75	67	102	162
20	1,560	2,870	825	284	99	46	210	263	72	66	103	161
21	2,020	2,690	826	275	94	46	155	252	69	66	108	164
22	3,500	2,570	826	269	89	44	246	218	68	67	113	163
23	2,640	2,440	825	257	86	42	330	191	69	66	116	163
24	3,060	2,350	834	247	81	41	297	186	67	69	117	163
25	3,910	2,210	828	244	79	42	494	220	70	70	120	163
26	3,250	2,010	796	239	76	42	280	208	72	72	120	162
27	2,240	1,810	746	227	72	44	210	253	73	72	121	158
28	1,770	1,640	703	221	73	45	545	189	73	73	122	154
29	1,480		664	221	72	40	548	181	78	74	122	154
30	1,300		642	215	72	39	1,110	267	87	77	123	159
31	1,230		612		73		831	322		80		161
<b>Total</b>	45,768	66,950	26,677	10,085	3,740	1,595	6,208	12,175	2,890	2,575	3,082	4,516
<b>Ac-ft</b>	90,781	132,795	52,914	20,004	7,418	3,164	12,314	24,149	5,732	5,108	6,113	8,957

Total for the Year: 369,448 ac-ft

Drainage area - 7,896 sq. mi.



# 2017

## GILA RIVER AT CALVA, ARIZONA

Mean daily diversions, cubic feet per second

2017 DAY	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	860	1,320	1,800	383	104	32	6.4	868	132	26	47	99
2	930	1,300	1,550	354	98	31	5.4	1,190	93	31	49	101
3	944	1,380	1,360	331	91	29	4.6	1,430	63	31	50	98
4	1,130	1,510	1,200	313	88	29	4.4	1,050	46	30	51	95
5	1,090	1,600	1,080	293	89	27	4.1	490	29	29	53	94
6	921	1,640	972	278	81	26	3.6	296	18	85	54	97
7	793	1,640	865	265	76	25	2.8	200	15	106	55	101
8	706	1,630	779	248	75	24	2.8	141	15	91	55	103
9	648	1,610	730	234	74	25	2.8	100	14	74	57	105
10	599	1,570	692	221	68	24	3.5	74	14	65	58	106
11	561	1,620	677	214	67	23	4.0	62	12	59	60	111
12	535	1,790	669	207	67	21	3.9	46	12	54	63	117
13	520	2,000	675	199	66	22	3.5	68	11	51	65	120
14	502	2,210	698	190	59	20	2.9	428	11	50	65	121
15	494	2,710	733	179	55	20	2.9	279	11	46	66	124
16	574	3,650	763	172	53	19	2.9	293	11	42	68	127
17	1,020	4,480	715	168	51	16	13	296	11	40	69	129
18	1,520	4,900	721	161	46	17	42	243	14	41	69	132
19	2,110	4,250	705	157	45	15	12	176	19	41	70	138
20	2,060	3,590	692	152	46	15	169	128	20	41	71	139
21	2,000	3,460	674	149	42	14	164	102	21	40	73	139
22	2,300	3,390	670	144	38	13	96	87	22	38	75	140
23	2,880	3,220	676	135	36	12	186	87	21	39	79	141
24	3,110	3,070	674	136	38	11	858	52	21	39	83	142
25	2,720	2,850	650	132	47	11	783	34	22	39	86	142
26	3,210	2,650	609	125	46	11	322	34	23	41	89	142
27	3,570	2,380	548	120	40	9.9	185	44	24	42	91	145
28	3,030	2,060	499	114	36	9.0	148	146	25	44	93	143
29	2,130		459	109	34	6.8	593	66	25	44	95	141
30	1,690		431	105	33	5.9	755	39	25	46	96	139
31	1,450		414		32		1,040	32		47		144
<b>Total</b>	<b>46,607</b>	<b>69,480</b>	<b>24,380</b>	<b>5,988</b>	<b>1,821</b>	<b>562</b>	<b>5,426.5</b>	<b>8,580</b>	<b>798</b>	<b>1,492</b>	<b>2,052</b>	<b>3,816</b>
<b>Ac-ft</b>	<b>92,445</b>	<b>137,814</b>	<b>48,358</b>	<b>11,877</b>	<b>3,612</b>	<b>1,115</b>	<b>10,763</b>	<b>17,018</b>	<b>1,583</b>	<b>2,959</b>	<b>4,070</b>	<b>7,568</b>

Total for the Year: 339,182 ac-ft

Drainage area - 11,470 sq. mi.

# 2017

## SAN CARLOS RIVER NEAR PERIDOT, ARIZONA

Mean daily diversions, cubic feet per second

2017 DAY	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	44	105	22	2.4								
2	303	107	27	2.0								
3	211	99	28	1.9								
4	89	87	23	1.8								
5	49	79	22	1.6								
6	33	72	19	1.5								
7	25	64	16	1.3								
8	22	59	15	1.2								
9	20	58	13	1.0								
10	16	60	12	0.9			4.1					
11	14	62	11	0.9								
12	12	58	9.6	0.8								
13	11	55	9.0	0.8								
14	11	49	8.3	0.8								
15	11	49	7.6	0.9								
16	11	45	7.3	0.8								
17	105	42	6.3	0.8			8.9					
18	162	39	6.0	0.7			2.7					
19	93	36	5.6	0.7								
20	71	47	5.2	0.8								
21	3,720	77	4.9	0.8			4.2					
22	1,570	63	4.3	0.8								
23	494	51	4.1	0.6			1.2					
24	2,740	42	3.8	0.6			34					
25	785	36	3.6	0.7			84					
26	332	31	3.4	0.6			65					
27	217	28	3.1	0.6			117					
28	158	27	3.0	0.6			26					
29	114		2.8	0.6			4.5					
30	104		2.8	0.6			1.1					
31	100		2.7				0.2					
<b>Total</b>	11,647	1,627	311.4	30.1			351.7					
<b>Ac-ft</b>	23,102	3,227	618	60			698					

Total for the Year: 27,704 ac-ft

Drainage area - 1,026 sq. mi.

# 2017

## GILA RIVER BELOW COOLIDGE DAM, ARIZONA

Mean daily diversions, cubic feet per second

2017 DAY	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1		70	230	483	454	473	660	224	499	291	181	197
2		70	244	484	451	472	659	278	474	271	187	197
3		88	276	472	456	474	659	279	473	258	198	197
4		126	320	464	456	475	658	309	473	258	198	194
5		132	327	418	455	475	658	320	458	258	198	197
6		126	333	393	495	475	657	318	434	258	198	171
7		122	344	402	507	518	666	316	434	257	198	168
8		122	349	411	504	593	674	315	434	257	198	168
9	44	132	350	411	481	606	673	272	434	257	197	190
10	85	143	350	411	455	575	673	242	434	257	197	205
11	75	142	409	409	453	589	672	242	434	257	197	205
12	75	142	435	409	451	621	672	241	412	257	197	205
13	75	142	435	409	450	369	672	240	401	256	197	206
14	75	142	435	416	449	446	662	239	402	256	197	184
15	76	157	436	447	448	615	656	327	401	256	196	177
16	76	165	437	461	417	614	656	345	402	256	196	188
17	63	165	438	471	394	614	656	318	402	256	196	188
18	40	166	440	483	393	614	598	318	378	256	196	188
19	75	191	440	483	393	613	656	318	364	255	196	189
20	41	202	441	483	392	612	655	318	364	256	196	189
21	34	200	443	483	409	662	654	318	365	255	196	189
22	22	198	463	480	422	687	654	459	334	255	196	74
23	20	201	476	480	422	686	658	580	320	255	196	6
24	21	205	477	481	422	685	459	584	320	255	196	6
25	44	205	477	480	421	685	157	584	304	255	196	6
26	56	205	479	479	421	684	314	583	293	255	195	6
27	68	205	510	479	420	683	350	582	293	211	195	6
28	69	190	530	479	419	670	362	581	292	181	196	52
29	68		531	478	419	661	348	549	292	181	195	43
30	70		531	476	448	660	148	529	291	181	195	6
31	71		507		474		121	529		181		6
<b>Total</b>	<b>1,343</b>	<b>4,354</b>	<b>12,893</b>	<b>13,615</b>	<b>13,651</b>	<b>17,606</b>	<b>17,417</b>	<b>11,657</b>	<b>11,611</b>	<b>7,648</b>	<b>5,870</b>	<b>4,203</b>
<b>Ac-ft</b>	<b>2,664</b>	<b>8,636</b>	<b>25,573</b>	<b>27,005</b>	<b>27,077</b>	<b>34,922</b>	<b>34,547</b>	<b>23,122</b>	<b>23,030</b>	<b>15,170</b>	<b>11,643</b>	<b>8,336</b>

Total for the Year: 241,725 ac-ft

Drainage area - 12,886 sq. mi.

# 2017

## NATURAL FLOW RELEASED AT COOLIDGE DAM

Mean daily diversions, cubic feet per second

2017 DAY	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1		70	230	385	104	32	6	224	132	26	47	99
2		70	244	356	98	31	5	278	93	31	49	101
3		88	276	333	91	29	5	279	63	31	50	98
4		126	320	315	88	29	4	309	46	30	51	95
5		132	327	295	89	27	4	320	29	29	53	94
6		126	333	280	81	26	4	296	18	85	54	97
7		122	344	266	76	25	3	200	15	106	55	101
8		122	349	249	75	24	3	141	15	91	55	103
9	44	132	350	235	74	25	3	100	14	74	57	105
10	85	143	350	222	68	24	8	74	14	65	58	106
11	75	142	409	215	67	23	4	62	12	59	60	111
12	75	142	435	208	67	21	4	46	12	54	63	117
13	75	142	435	200	66	22	4	68	11	51	65	120
14	75	142	435	191	59	20	3	239	11	50	65	121
15	76	157	436	180	55	20	3	279	11	46	66	124
16	76	165	437	173	53	19	3	293	11	42	68	127
17	63	165	438	169	51	16	21	296	11	40	69	129
18	40	166	440	162	46	17	45	243	14	41	69	132
19	75	191	440	158	45	15	12	176	19	41	70	138
20	41	202	441	153	46	15	169	128	20	41	71	139
21	34	200	443	150	42	14	168	102	21	40	73	139
22	22	198	463	145	38	13	96	87	22	38	75	74
23	20	201	476	136	36	12	187	87	21	39	79	
24	21	205	477	137	38	11	459	52	21	39	83	
25	44	205	477	133	47	11	157	34	22	39	86	
26	56	205	479	126	46	11	314	34	23	41	89	
27	68	205	510	121	40	10	302	44	24	42	91	
28	69	190	502	115	36	9	174	146	25	44	93	52
29	68		462	110	34	7	348	66	25	44	95	43
30	70		434	106	33	6	148	39	25	46	96	
31	71		417		32		121	32		47		
<b>Total</b>	1,343	4,354	12,609	6,024	1,821	564	2,787	4,774	800	1,492	2,055	2,564
<b>Ac-ft</b>	2,664	8,636	25,010	11,949	3,612	1,119	5,528	9,469	1,587	2,959	4,076	5,085

Total for the Year: 81,693 ac-ft

# 2017

## STORED WATER RELEASED AT COOLIDGE DAM

Mean daily diversions, cubic feet per second

2017 DAY	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1				98	350	441	654		367	265	134	98
2				128	353	441	654		381	240	138	96
3				139	365	445	654		410	227	148	99
4				149	368	446	654		427	228	147	99
5				123	366	448	654		429	229	145	103
6				113	414	449	653	22	416	173	144	74
7				136	431	493	663	116	419	151	143	67
8				162	429	569	671	174	419	166	143	65
9				176	407	581	670	172	420	183	140	85
10				189	387	551	665	168	420	192	139	99
11				194	386	566	668	180	422	198	137	94
12				201	384	600	668	195	400	203	134	88
13				209	384	347	668	172	390	205	132	86
14				225	390	426	659		391	206	132	63
15				267	393	595	653	48	390	210	130	53
16				288	364	595	653	52	391	214	128	61
17				302	343	598	635	22	391	216	127	59
18				321	347	597	553	75	364	215	127	56
19				325	348	598	644	142	345	214	126	51
20				330	346	597	486	190	344	215	125	50
21				333	367	648	486	216	344	215	123	50
22				335	384	674	558	372	312	217	121	
23				344	386	674	471	493	299	216	117	
24				344	384	674		532	299	216	113	
25				347	374	674		550	282	216	110	
26				353	375	673		549	270	214.4	106	
27				358	380	673	48	538	269	168.6	104	
28			28	364	383	661	188	435	267	137.5	103	
29			69	368	385	654		483	267	136.9	100	
30			97	370	415	654		490	266	135.3	99	
31			90		442			497		133.7		
Total			284	7,591	11,830	17,042	14,630	6,883	10,811	6,156	3,815	1,596
Ac-ft			563	15,057	23,465	33,803	29,019	13,652	21,444	12,211	7,567	3,166

Total for the Year: 159,946 ac-ft

# 2017

## GILA RIVER AT KELVIN ARIZONA

Mean daily diversions, cubic feet per second

2017 DAY	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	207	111	210	463	440	457	610	639	591	284	155	194
2	415	102	220	448	408	457	611	555	549	283	155	194
3	193	104	222	446	412	457	610	573	534	253	165	194
4	118	120	263	430	416	457	610	646	530	242	178	194
5	72	170	322	425	415	454	609	519	530	240	179	195
6	53	175	324	358	413	453	610	463	504	237	180	180
7	45	167	325	337	460	452	612	456	485	235	182	164
8	38	162	333	365	475	488	619	457	485	236	184	166
9	26	159	328	363	484	549	624	458	494	235	183	168
10	22	165	320	361	452	556	625	355	490	234	183	193
11	105	174	313	357	433	528	626	343	487	236	183	207
12	134	175	393	356	428	555	626	443	487	236	184	210
13	115	177	413	355	424	579	625	678	453	235	184	210
14	102	174	415	355	421	287	665	620	443	236	184	211
15	106	171	413	369	419	460	635	453	440	236	185	183
16	149	186	413	411	418	542	639	338	441	234	187	178
17	229	195	414	421	376	549	753	305	440	236	187	192
18	176	203	414	430	352	552	990	301	440	237	187	191
19	107	209	412	442	350	545	649	298	401	237	188	190
20	258	264	412	442	351	549	776	298	385	240	190	191
21	2290	284	410	441	349	552	767	298	383	238	191	192
22	1640	271	412	440	374	593	769	297	384	238	191	193
23	546	256	447	439	387	615	1000	511	332	240	190	115
24	1470	259	454	436	386	626	1070	632	321	239	191	40
25	629	256	451	435	384	627	1170	625	323	238	192	26
26	266	249	451	436	382	626	418	621	296	239	192	20
27	209	243	450	437	383	627	395	622	287	240	192	21
28	170	238	484	437	385	623	404	618	287	182	192	23
29	143		495	440	382	613	550	616	287	152	193	23
30	128		495	441	379	609	876	579	285	151	193	54
31	118		491		421		850	568		152		36
<b>Total</b>	10,279	5,419	11,919	12,316	12,559	16,037	21,393	15,185	12,794	7,151	5,520	4,547
<b>Ac-ft</b>	20,388	10,749	23,641	24,429	24,911	31,809	42,433	30,119	25,377	14,184	10,949	9,019

**Total for the Year: 268,009 ac-ft**

Drainage area - 18,011 sq. mi. of which 5,125 sq. mi. is below Coolidge Dam

# 2017

## OPERATION OF SAN CARLOS RESERVOIR

Quantities in Acre-Feet

2017 Month	Storage			Inflow				Releases			Bank	
	Beginning Storage	Ending Storage	Gain or Loss	Calva	Peridot	Rain	Total	Gila Below Coolidge Dam	Outflow Evap	Total	Storage	Release
JAN	46200	134091	87891	92445	23102	696	116243	2664	854	3518	24834	
FEB	134091	227355	93264	137814	3227	696	141737	8636	854	9490	38983	
MAR	227355	241479	14124	48358	618	7	48983	25573	3427	29000	5859	
APR	241479	222335	-19144	11877	60		11937	27005	4551	31556		-475
MAY	222335	192147	-30188	3612		136	3748	27077	5223	32300	1636	
JUN	192147	151521	-40626	1115		1387	2502	34922	6379	41301	1827	
JUL	151521	125628	-25893	10763	698	2374	13835	34547	4522	39069	659	
AUG	125628	111128	-14500	17018		138	17156	23122	4162	27284	4372	
SEP	111128	83860	-27268	1583		29	1612	23030	2984	26014	2866	
OCT	83860	68758	-15102	2959			2959	15170	2118	17288	773	
NOV	68758	59888	-8870	4070			4070	11643	1209	12852	88	
DEC	59888	57625	-2263	7568		108	7676	8336	729	9065	874	
<b>Totals</b>			<b>11425</b>	<b>339182</b>	<b>27705</b>	<b>5571</b>	<b>372458</b>	<b>241725</b>	<b>37012</b>	<b>278737</b>	<b>82771</b>	<b>-475</b>

# 2017

In Acre-Feet

2017 Month	Storage		Accumulated					Monthly Bank Result
	Contents	Contents	Inflow	Releases	Bank		Net Result	
	End of Month	Gain or Loss	Including Rain	Including Evap	Storage	Release		
Begin	46200							
JAN	134091	87891	116243	3518	24834	0	24834	24834
FEB	227355	93264	257980	13008	38983	0	63817	38983
MAR	241479	14124	306963	42008	5859	0	69676	5859
APR	222335	-19144	318900	73564	0	-475	69201	-475
MAY	192147	-30188	322648	105864	1636	0	70837	1636
JUN	151521	-40626	325150	147165	1827	0	72664	1827
JUL	125628	-25893	338985	186234	659	0	73323	659
AUG	111128	-14500	356141	213518	4372	0	77695	4372
SEP	83860	-27268	357753	239532	2866	0	80561	2866
OCT	68758	-15102	360712	256820	773	0	81334	773
NOV	59888	-8870	364782	269672	88	0	81422	88
DEC	57625	-2263	372458	278737	874	0	82296	874
Graph:	STORAGE		INFLOW	RELEASES	BANK STOR/REL			



# 2017

## WATER SURFACE ELEVATIONS, SAN CARLOS RESERVOIR

Elevation in Feet

2017 DAY	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	2423.30	2443.23	2457.13	2458.64	2456.09	2451.87	2445.50	2441.51	2438.54	2432.74	2429.03	2426.69
2	2423.64	2443.61	2457.42	2458.60	2455.96	2451.71	2445.22	2441.68	2438.33	2432.61	2429.00	2426.64
3	2424.15	2443.99	2457.61	2458.56	2455.87	2451.52	2444.97	2441.93	2438.11	2432.33	2428.90	2426.51
4	2424.67	2444.35	2457.77	2458.51	2455.73	2451.36	2444.73	2442.13	2437.88	2432.35	2428.83	2426.46
5	2425.23	2444.73	2457.93	2458.49	2455.62	2451.19	2444.50	2442.14	2437.43	2432.23	2428.71	2426.38
6	2425.70	2445.16	2458.04	2458.47	2455.47	2451.02	2444.23	2442.08	2437.24	2432.09	2428.66	2426.34
7	2426.12	2445.39	2458.11	2458.41	2455.31	2450.88	2443.98	2441.98	2437.02	2432.00	2428.55	2426.27
8	2426.43	2445.81	2458.21	2458.36	2455.16	2450.64	2443.73	2441.86	2436.79	2431.88	2428.46	2426.20
9	2426.78	2446.17	2458.24	2458.29	2455.03	2450.47	2443.43	2441.76	2436.61	2431.77	2428.36	2426.14
10	2427.01	2446.55	2458.27	2458.19	2454.91	2450.24	2443.20	2441.59	2436.40	2431.66	2428.30	2426.09
11	2427.23	2446.91	2458.37	2458.17	2454.78	2450.02	2442.97	2441.49	2436.17	2431.55	2428.18	2426.02
12	2427.47	2447.31	2458.41	2458.12	2454.70	2449.79	2442.78	2441.36	2435.98	2431.44	2428.12	2425.96
13	2427.68	2447.77	2458.44	2458.04	2454.52	2449.69	2442.56	2441.22	2435.77	2431.33	2428.04	2425.91
14	2427.91	2448.24	2458.46	2457.97	2454.52	2449.51	2442.28	2441.20	2435.55	2431.20	2427.94	2425.86
15	2428.13	2448.68	2458.48	2457.89	2454.22	2449.30	2442.01	2441.17	2435.36	2431.09	2427.88	2425.82
16	2428.33	2449.41	2458.55	2457.77	2454.11	2449.06	2441.76	2441.16	2435.15	2430.94	2427.81	2425.77
17	2428.55	2450.25	2458.57	2457.70	2453.96	2448.82	2441.66	2441.13	2434.90	2430.74	2427.74	2425.75
18	2429.09	2451.20	2458.65	2457.58	2453.81	2448.61	2441.53	2441.05	2434.75	2430.63	2427.62	2425.71
19	2429.79	2452.05	2458.67	2457.50	2453.71	2448.48	2441.28	2441.00	2434.56	2430.51	2427.56	2425.68
20	2430.70	2452.68	2458.73	2457.36	2453.57	2448.23	2441.07	2440.91	2434.36	2430.37	2427.46	2425.64
21	2432.57	2453.37	2458.81	2457.28	2453.47	2447.97	2440.98	2440.80	2434.15	2430.20	2427.41	2425.54
22	2434.24	2454.01	2458.81	2457.17	2453.31	2447.72	2440.79	2440.64	2433.97	2430.13	2427.30	2425.55
23	2435.36	2454.48	2458.82	2457.01	2453.18	2447.52	2440.58	2440.40	2433.81	2430.00	2427.24	2425.64
24	2437.16	2455.08	2458.84	2456.95	2453.02	2447.23	2440.66	2440.18	2433.63	2429.89	2427.20	2425.72
25	2438.49	2455.57	2458.85	2456.76	2452.90	2446.99	2440.88	2439.92	2433.60	2429.70	2427.09	2425.84
26	2439.43	2456.05	2458.86	2456.69	2452.72	2446.74	2440.97	2439.70	2433.47	2429.54	2427.03	2425.89
27	2440.41	2456.47	2458.87	2456.54	2452.58	2446.50	2440.93	2439.48	2433.17	2429.48	2426.92	2425.94
28	2441.32	2456.85	2458.85	2456.42	2452.47	2446.21	2440.98	2439.28	2433.05	2429.45	2426.90	2425.96
29	2441.98		2458.77	2456.31	2452.29	2445.97	2440.95	2438.99	2433.03	2429.35	2426.82	2426.03
30	2442.43		2458.74	2456.19	2452.17	2445.74	2441.15	2438.77	2432.89	2429.25	2426.76	2426.09
31	2442.84		2458.66		2452.01		2441.38	2438.77		2429.12		2426.14

# 2017

## WATER SURFACE AREAS, SAN CARLOS RESERVOIR

Area in Acres

2017 DAY	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	3335	5907	7704	7944	7538	6867	6129	5738	5237	4167	3838	3668
2	3377	5944	7750	7937	7518	6842	6102	5755	5186	4155	3836	3664
3	3440	5981	7780	7931	7503	6812	6077	5779	5135	4129	3828	3655
4	3504	6016	7805	7923	7481	6786	6054	5799	5077	4131	3823	3651
5	3561	6054	7831	7920	7464	6759	6031	5800	4969	4119	3815	3645
6	3596	6096	7848	7917	7440	6732	6005	5794	4923	4106	3811	3642
7	3626	6118	7859	7907	7414	6710	5980	5784	4869	4097	3803	3637
8	3649	6159	7875	7899	7390	6672	5956	5772	4814	4086	3796	3632
9	3674	6195	7880	7888	7370	6645	5926	5762	4770	4076	3789	3628
10	3691	6332	7885	7872	7351	6608	5904	5746	4719	4065	3775	3624
11	3707	6267	7901	7869	7330	6573	5881	5736	4664	4055	3776	3619
12	3724	6306	7907	7861	7317	6549	5862	5723	4620	4045	3772	3615
13	3740	6351	7912	7848	7289	6540	5841	5710	4567	4034	3766	3611
14	3756	6398	7915	7837	7265	6522	5813	5708	4514	4022	3759	3607
15	3772	6441	7918	7825	7241	6501	5787	5705	4468	4011	3754	3604
16	3787	6512	7929	7805	7223	6478	5762	5704	4417	3997	3749	3601
17	3803	6610	7929	7794	7200	6356	5753	5709	4371	3978	3744	3599
18	3842	6761	7945	7775	7176	6434	5740	5693	4357	3968	3735	3596
19	3893	6896	7949	7763	7160	6421	5715	5688	4339	3957	3731	3594
20	3975	6996	7958	7740	7138	6397	5695	5679	4320	3943	3724	3591
21	4151	7106	7971	7728	7122	6371	5686	5668	4301	3927	3720	3584
22	4309	7208	7971	7710	7096	6347	5667	5653	4284	3921	3712	3585
23	4468	7282	7972	7685	7076	6327	5647	5629	4268	3908	3708	3591
24	4903	7378	7976	7675	7050	6299	5655	5608	4251	3900	3705	3597
25	5225	7456	7977	7645	7031	6275	5676	5571	4249	3887	3697	3606
26	5452	7532	7979	7634	7002	6251	5685	5517	4236	3875	3684	3609
27	5630	7599	7980	7610	6980	6227	5681	5464	4208	3871	3684	3613
28	5719	7659	7977	7591	6963	6199	5686	5416	4197	3868	3683	3615
29	5784		7964	7573	6934	6175	5683	5346	4195	3861	3677	3620
30	5828		7960	7554	6915	6153	5703	5293	4182	3854	3673	3624
31	5868		7947		6890		5725	5293		3844		3628

# 2017

## AVAILABLE STORED WATER, SAN CARLOS RESERVOIR

Storage in Acre-feet

2017 DAY	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	47689	136387	229506	241320	221580	191184	150048	126373	109917	83233	68412	59631
2	48830	138639	231747	241002	220601	190087	148335	127350	108822	82692	68297	59448
3	50568	140905	233222	240685	219926	188790	146813	128792	107687	81533	67914	58972
4	52374	143064	234469	240288	218877	187703	145357	129949	106513	81615	67646	58789
5	54354	145357	235720	240130	218055	186551	143968	130007	104253	81120	67188	58498
6	56036	147969	236582	239972	216937	185404	142343	129660	103313	80545	66997	58352
7	57552	149374	237132	239497	215749	184463	140845	129081	102236	80175	66579	58097
8	58680	151952	237919	239102	214638	182858	139353	128387	101122	79684	66237	57843
9	59961	154176	238155	238549	213679	181726	137571	127811	100260	79235	65857	57625
10	60808	156537	238391	237761	212796	180202	136210	126832	99263	78788	65630	57444
11	61622	158787	239181	237604	211841	178752	134855	126258	98184	78341	65177	57190
12	62514	161302	239497	237211	211255	177243	133739	125513	97349	77896	64950	56973
13	63298	164213	239734	236582	209941	176588	132452	124713	96338	77451	64649	56792
14	64160	167209	239892	236033	208849	175413	130820	124599	95339	76928	64272	56612
15	64988	170033	240051	235407	207762	174045	129254	124428	94486	76486	64047	56468
16	65744	174761	240605	234469	206966	172488	127811	124371	93553	75885	63784	56288
17	66579	180268	240764	233923	205884	170936	127235	124200	92455	75088	63522	56216
18	68643	186619	241399	232989	204806	169583	126488	123744	91801	74651	63073	56072
19	71350	192423	241558	232367	204089	168747	125056	123459	90975	74175	62849	55964
20	74929	196799	242035	231282	203088	167145	123858	122948	90109	73622	62477	55820
21	82526	201664	242673	230663	202375	165485	123346	122324	89203	72953	62291	55461
22	89591	206244	242673	229814	201238	163895	122267	121418	88431	72678	61882	55497
23	94486	209650	242752	228583	200317	162628	121079	120064	87747	72169	61659	55820
24	102920	214048	242912	228122	199187	160797	121531	118828	86980	71740	61511	56108
25	109655	217682	242991	226666	198342	159289	122777	117374	86852	71000	61104	56540
26	114673	221279	243071	226132	197079	157723	123289	116154	86301	70379	60882	56720
27	120120	224456	243151	224988	196100	156226	123061	114946	85034	70147	60476	56901
28	125285	227355	242991	224076	195333	154424	123346	113858	84530	70031	60403	56973
29	129081		242354	223242	194083	152939	123175	112298	84446	69644	60108	57226
30	131693		242115	222335	193252	151521	124314	111128	83860	69259	59888	57444
31	134091		241479		192147		125628	111128		68758		57625

# 2017

## DAILY EVAPORATION, SAN CARLOS RESERVOIR

Acre-feet

2017 DAY	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	11	29	60	73	169	191	209	59	130	81	38	29
2	11	33	91	113	195	174	223	151	138	84	51	24
3	7	28	67	157	176	210	200	101	121	79	43	24
4	22	31	70	136	190	218	243	127	102	78	37	41
5	28	32	72	134	208	230	223	153	99	72	48	20
6	25	30	96	133	240	214	207	133	128	121	43	38
7	20	56	72	142	162	188	216	164	110	65	34	42
8	5	43	82	166	118	220	223	129	84	83	44	26
9	11	43	99	149	110	228	142	160	81	82	42	28
10	21	42	100	128	89	235	108	144	117	72	42	37
11	21	16	108	127	154	221	128	154	101	58	46	22
12	17	80	121	157	174	207	171	114	116	72	33	36
13	10	40	111	143	210	215	128	118	140	70	36	25
14	18	51	115	163	159	214	149	126	114	82	51	31
15	34	61	108	158	134	198	161	155	96	77	39	31
16	13	49	129	148	20	226	169	143	89	60	44	14
17	10	49	109	172	184	211	144	137	89	54	50	13
18	19	19	132	160	54	193	70	157	98	74	54	10
19	7	20	121	170	88	198	148	156	110	41	40	18
20	253	45	131	143	176	232	109	181	114	76	38	15
21	9	62	145	175	184	234	78	101	92	61	41	30
22	5	91	150	190	223	259	86	153	98	49	42	16
23	22	95	95	180	198	227	109	121	82	68	29	13
24	16	75	120	209	235	217	46	122	75	74	47	16
25	22	82	117	160	219	189	109	127	91	61	32	14
26	19	52	134	161	219	209	144	135	64	62	40	20
27	45	51	123	169	190	204	94	122	84	68	42	19
28	29	23	101	127	183	207	192	123	68	50	35	27
29	45		129	153	202	217	109	136	75	43	31	18
30	37		101	155	178	193	60	131	78	47	17	18
31	42		218		182		124	129		54		14
<b>Total</b>	854	1,328	3,427	4,551	5,223	6,379	4,522	4,162	2,984	2,118	1,209	729

Total for the Year: 37,486 acre-feet

# 2017

## DAILY RAINFALL, SAN CARLOS RESERVOIR

Acre-feet

2017 DAY	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	69											
2								86				
3												
4												
5												
6						770						
7												
8					136							
9												
10							49					
11												
12		52						33				
13												
14	37											
15	75											
16							144					84
17		11					585					24
18		56										
19	81	40					224					
20	52						62	19				
21	200											
22							298		29			
23	182		7				151					
24							325					
25												
26						167						
27		126					24					
28						450	512					
29												
30												
31												
<b>Total</b>	696	285	7		136	1,387	2,374	138	29			108

Total for the Year: 5,160 ac-ft

# 2017

## RAINFALL AT COOLIDGE DAM

Elevation approximately 2,550 feet

Inches

2017 DAY	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.25											
2								0.18				
3												
4												
5												
6						1.37						
7												
8					0.22							
9												
10							0.10					
11												
12		0.10						0.07				
13												
14	0.12											
15	0.24											
16							0.30					0.28
17		0.02					1.22					0.08
18		0.10										
19	0.25	0.07					0.47					
20	0.16						0.13	0.04				
21	0.59											
22							0.63		0.08			
23	0.50		0.01				0.32					
24							0.69					
25												
26						0.32						
27		0.20					0.05					
28						0.87	1.08					
29												
30												
31												
<b>Total</b>	2.11	0.49	0.01		0.22	2.56	4.99	0.29	0.08			0.36

Note: T-Trace

Total for Year : 11.11 inches

# 1956-2017

## MONTHLY RAINFALL AT COOLIDGE DAM

Inches

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1956	2.20	0.82		0.47		0.11	1.51	1.36		0.60		0.09	7.16
1957	3.90	0.60	1.16	0.30	0.74	0.42	1.65	1.64	0.07	4.28	1.01	0.66	16.43
1958		3.26	4.18	1.12	0.02	0.67	1.38	1.38	1.91	2.25	1.03	0.11	17.31
1959	0.42	1.25		0.19		0.31	2.98	3.20		3.76	0.67	3.42	16.20
1960	2.66	1.16	0.28	0.03	0.76		0.92	0.51	1.19	2.83	0.36	0.97	11.67
1961	1.21	0.08	0.83				1.14	2.79	0.81	1.07	1.13	3.04	12.10
1962	1.71	0.82	0.98			0.27	1.75	0.34	2.23	0.91	0.91	1.88	11.80
1963	1.87	3.02	0.70	0.48			0.27	4.27	0.56	0.77	1.09	0.19	13.22
1964	0.27		0.96	0.22			4.10	2.75	2.57	0.58	1.13	1.26	13.84
1965	2.34	2.18	1.12	1.13		0.53	1.35	1.67	0.71	0.15	3.25	8.53	22.96
1966	1.11	1.99	0.37	T		0.73	2.21	5.51	3.32	0.88	0.63	1.14	17.89
1967	0.43	0.21	1.31	0.51	0.66	0.14	4.68	1.74	1.01	0.81	1.05	6.44	18.99
1968	1.05	2.36	1.69	0.21	0.22	T	0.31	2.50	0.01	0.24	1.78	2.64	13.01
1969	1.66	0.68	0.81	0.06	0.93	T	0.65	2.41	1.45	0.58	2.49	0.84	12.56
1970	0.02	0.28	3.91	0.50	0.01	T	0.62	1.76	3.03	0.31	0.21	0.63	11.28
1971	0.29	0.88	0.17	0.32			1.85	3.05	1.15	4.24	0.68	2.41	15.04
1972	0.05				0.31	1.30	0.85	1.69	2.07	5.96	1.16	1.91	15.30
1973	0.44	2.54	3.71	0.03	1.42	0.62	1.73	0.24	0.03		0.93		11.69
1974	2.00	0.11	0.95	0.11			1.17	1.21	1.69	2.63	0.37	0.56	10.80
1975	0.70	1.42	2.48	1.24	T		2.65	0.72	2.68	0.06	1.44	0.91	14.30
1976	0.20	2.08	0.42	1.85	0.98		1.14	2.28	1.77	1.14	0.49	0.01	12.36
1977	1.79	0.08	1.22	0.14	0.13	0.11	1.94	1.80	0.83	2.89	0.31	0.75	11.99
1978	4.12	2.59	3.29	0.33	0.78	0.25	2.13	1.04	0.87	1.83	5.40	6.18	28.81
1979	4.59	1.76	2.15	0.61	0.96	1.50	0.57	1.88	0.13	0.29	0.39	1.16	15.99
1980	4.02	4.69	2.08	0.05	0.03		0.77	1.33	1.14	0.59	0.29	0.28	15.27
1981	1.39	0.96	3.09	0.33	0.33	0.02	2.50	0.37	0.45	0.27	1.56		11.27
1982	2.68	2.15	1.92	0.04	0.63		2.68	2.05	1.49		1.84	2.75	18.23
1983	2.36	1.93	4.68	0.36	0.04		0.69	4.26	3.46	5.42	1.97	2.19	27.36
1984	0.69			0.80		0.10	2.56	1.29	0.98	1.38	1.47	5.06	14.33
1985	2.52	1.39	1.22	0.94	T	0.03	0.49	2.65	2.90	0.66	2.97	0.26	16.03
1986	0.19	2.44	4.06	0.22	T	0.31	1.98	2.59	1.29	1.64	1.24	2.89	18.85
1987	1.55	2.21	1.03	0.21	0.30	T	0.69	1.93	1.48	0.56	1.45	1.96	13.37
1988	1.21	0.76		2.60		0.36	2.93	5.16	0.81	0.81	1.00	0.50	16.14
1989	2.36	0.20	1.03		0.10		2.15	3.14	0.05	1.60	T	0.55	11.18
1990	0.80	1.54	0.91	0.56	0.10	0.14	2.26	4.66	1.21	0.87	0.84	4.77	18.66
1991	1.28	1.00	5.03			0.15	0.36	0.98	2.10	0.45	1.45	2.76	15.56
1992	2.24	3.26	2.69	0.27	2.67	0.30	1.64	4.06	1.45	0.98	0.10	6.17	25.83
1993	10.57	3.90	1.50		2.11		0.52	2.51	0.75	1.49	1.74	0.85	25.94
1994	0.12	3.17	1.79	0.48	0.74	0.03	0.63	1.82	2.55	1.55	2.39	2.10	17.37
1995	4.22	1.88	1.94	0.69	0.49			2.52	1.25		0.88	0.74	14.61
1996	0.04	2.82	0.78	0.16		0.74	2.35	1.37	2.98	0.31	1.02		12.57
1997	3.21	2.38	0.35	0.25	0.39	0.12	0.42	1.56	1.54	1.25	1.24	3.25	15.96
1998	0.71	4.73	2.05	0.46		0.13	1.62	2.75	0.31	1.66	1.48	0.63	16.53
1999	0.16	0.13	0.27	2.27			3.82	2.07	1.06				9.78
2000	0.40	0.72	0.87	0.04		0.81	0.28	2.97	0.54	5.32	1.90	0.12	13.97
2001	2.64	1.39	0.34	1.48	0.44	0.06	1.93	2.10	0.56	0.84	0.13	1.16	13.07
2002	0.10		0.35	0.18			1.32	1.20	0.60	0.17	0.22	1.12	5.26
2003	0.63	3.99	0.63	0.38	0.02		2.01	0.58	1.60	0.42	0.86	0.54	11.66
2004	1.65	0.76	2.29	1.39	0.00	0.38	0.35	1.78	0.40	1.09	0.72	2.44	13.25
2005	3.20	4.79	1.22	0.50	0.10	0.88	2.59	1.33	1.90	0.32	0.00	0.06	16.89
2006	0.06	0.00	1.70	0.36	0.00	0.12	4.66	1.71	0.63	2.87	0.11	0.33	12.55

# 1956-2017

## MONTHLY RAINFALL AT COOLIDGE DAM

Inches

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
2007	1.45	0.85	1.08	0.05	0.00	0.00	2.11	2.09	0.24	0.15	2.70	2.67	13.39
2008	2.60	1.89	0.70	0.00	1.41	0.00	2.49	3.80	0.10	0.06	0.91	2.23	16.19
2009	1.72	1.34	0.30	0.63	0.84	0.32	2.98	0.03	0.57		0.14	1.88	10.75
2010	5.99	2.05	1.30	0.20	0.00	0.05	2.92	1.17	0.47	0.82	0.05	2.10	17.12
2011	0.00	0.54	0.26	0.42	0.11	0.06	3.07	2.07	1.44	0.27	0.67	2.85	11.76
2012	0.85	0.17	0.72	0.38	0.00	0.00	4.05	1.69	2.49	0.00	0.57	2.59	13.51
2013	1.76	0.72	0.80	0.37	0.00	0.18	2.15	1.31	1.18	0.20	1.41	0.24	10.32
2014	0.00	0.11	0.96	0.06	0.00	0.00	2.08	1.93	2.77	1.21	0.00	2.12	11.24
2015	1.88	0.05	0.69	0.60	0.48	0.75	1.54	2.59	1.96	2.70	1.75	1.43	16.42
2016	2.52	0.00	0.01	0.55	0.25	0.71	1.20	1.31	1.75	0.84	2.79	3.07	15.00
2017	2.11	0.49	0.01	0.00	0.22	2.56	4.99	0.29	0.08	0.00	0.00	0.36	11.11



**BROWN & BROWN LAW OFFICES, P.C.**

A PROFESSIONAL CORPORATION  
OF ATTORNEYS

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DAVID A. BROWN  
DOUGLAS E. BROWN  
J ALBERT BROWN  
AMY BROWN

February 13, 2018

**VIA CERTIFIED MAIL,**  
**RETURN RECEIPT REQUESTED**

Secretary of the Interior  
Department of the Interior  
1849 C Street NW  
Washington, D.C. 20240

Regional Director  
Bureau of Reclamation  
Lower Colorado Region  
P.O. Box 427  
Boulder City, NV 89005

Department of Interior  
Bureau of Indian Affairs  
2600 N. Central Ave., 4<sup>th</sup> Floor  
Phoenix, AZ 85004

Linus Everling, Acting General  
Counsel  
Gila River Indian Community  
P.O. Box 97  
Sacaton, AZ 85747

General Manager and General  
Counsel  
San Carlos Irrigation and Drainage  
District  
P.O. Box 218  
Coolidge, AZ 85228

Lawrence Marquez  
Arizona Water Settlements  
Bureau of Reclamation  
Phoenix Area Office  
6150 West Thunderbird Road  
Glendale, AZ 85306-4001

Governor  
Gila River Indian Community  
P.O. Box 97  
Sacaton, AZ 85747

Patricia A. Doyle  
Gila Water Commissioner  
P.O. Box 152  
Safford, AZ 85548

Re: 2017 annual report  
February 13, 2018  
Page 2

Re: 2017 annual report

Dear Sir or Madam:

Pursuant to subparagraph 6.4 of the UV Forbearance Agreement, enclosed please find a copy of a report prepared on behalf of the Gila Valley and Franklin Irrigation Districts entitled "Arizona Irrigation Districts Provisional Annual Total Water Use 2017."

Sincerely,



David A. Brown

J A. Brown

BROWN & BROWN LAW OFFICES, P.C.

DAB:lv  
Enclosure

cc: Lorraine Hollingsworth  
Brent Moody

# Arizona Irrigation Districts

## Provisional Annual Total Water Use 2017

<b>Franklin Irrigation District</b>		<b>Gila Valley Irrigation District</b>	
TBI (acres)	2,577.30	TBI (acres)	22,562.38
Surface Water (AF)		Surface Water (AF)	
JAN	0.00	JAN	138.00
FEB	161.62	FEB	1,354.00
MAR	880.67	MAR	16,040.00
APR	1,106.13	APR	13,901.00
MAY	768.02	MAY	6,988.00
JUN	182.96	JUN	3,288.00
JUL	355.77	JUL	5,709.00
AUG	903.80	AUG	12,576.00
SEP	404.79	SEP	4,265.00
OCT	334.76	OCT	0.00
NOV	245.92	NOV	0.00
DEC	60.00	DEC	0.00
FID Total SW	5,404.44	GVID Total SW	64,259.00
Pumped Water (AF)		Pumped Water (AF)	
Quarter I	496.50	Quarter I	13,910.08
II	3,762.08	II	32,660.57
III	2,794.40	III	30,696.47
IV	1,160.80	IV	646.34
FID Total PW	8,213.78	GVID Total PW	77,913.46
FID Total Water (AF)	13,618.22	GVID Total Water (AF)	142,172.46
FID Water Duty (AF/A)	5.28	GVID Water Duty (AF/A)	6.30

### Arizona Irrigation Districts Totals

TBI (acres)	25,139.68
Surface Water (AF)	69,663.44
Pumped Water (AF)	86,127.24
Total Water (AF)	155,790.68
Water Duty (AF/A)	6.20

Sunset Ditch Company  
110 Richmond Ave. Box 4  
Virden, New Mexico 88045  
575-358-2594

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January 26, 2018

Secretary of the Interior  
Department of the Interior  
1849 C Street NW  
Washington, DC 20240

Regional Director  
Bureau of Reclamation  
Lower Colorado Region  
PO Box 427  
Boulder City, NV 89005

Department of Interior  
Bureau of Indian Affairs  
2600 N. Central Avenue, 4<sup>th</sup> Floor  
Phoenix, AZ 85004

Linus Everling, Acting General Counsel  
Gila River Indian Community  
PO Box 97  
Sacaton, AZ 85747

General Manager and General Counsel  
San Carlos Irrigation & Drainage District  
PO Box 218  
Coolidge, AZ 85228

Lawrence Marquez  
Arizona Water Settlements  
Bureau of Reclamation  
Phoenix Area Office  
6150 West Thunderbird Road  
Glendale, AZ 85306-4001

Governor  
Gila River Indian Community  
PO box 97  
Sacaton, AZ 85747

RE: New Mexico Canals 2017 Annual Water Use Report

Dear Sir or Madam:

Enclosed please find a copy of the 2017 Annual Water Use Report for Sunset Ditch Company and New Mexico New Model.

Sincerely,

Sunset Ditch Company

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Hollie Jones, Secretary

Encl.

Sunset Ditch Company  
110 Richmond Ave. Box 4  
Virden, NM 88045  
575-358-2594

---

cc: L. Anthony Fines via email  
David Brown via email  
Brent Moody via email  
Patricia Doyle, Acting Water Commissioner, via email  
Clients via email

Sunset Ditch Company  
 110 Richmond Ave. Box 4  
 Virden, NM 88045  
 575-358-2594

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New Mexico Canals Provisional Adjusted Total Water Use 2017

Sunset Canal		New Model Canal New Mexico	
Sunset Subjugated Acres	Not determined by STC	New Model NM Subjugated Acres	Not determined by STC
Sunset TBI Eligible Acres	Not determined by STC	New Model NM Eligible Acres	Not determined by STC
Sunset TBI (acres) (Just NM side)	1,866.50	New Model NM TBI (acres) (Just NM side)	152.44
Sunset Surface Water (AF)	5,842.15	New Model NM Surface Water (AF)	396.34
Sunset Pumped Water (AF)		New Model NM Pumped Water (AF)	405.49
Less Pump Only acres that are limited to 3 acre/feet	5,660.86 <u>-423.90</u> 5,236.96		
Sunset Total Use for Fallowing (AF)	0.00	New Model NM Total Use for Fallowing (AF)	0.00
Sunset Total Water (AF)	11,079.11	New Model NM Total Water (AF)	801.83

New Mexico Canals Totals

Subjugated Acres                      Not determined by STC  
 TBI Eligible Acres                    Not determined by STC  
 TBI (Acres)    2,018.94  
 Surface Water (AF)    6,238.49  
 Pumped Water (AF)    5,642.45  
 Total Use for Fallowing  
 Total Water (AF)    11,880.94 = 5.88 ac/ft.

Reports used:	December 2017 Summary of TBI Acres:	Gila Water Commissioner
	December 2017 Well Report:	NM State Engineer
	December 2017 Monthly Surface Water:	Gila Water Commissioner