

Eighty Third 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

## 2018



# **EIGHTY THIRD ANNUAL REPORT**

**2018**

DISTRIBUTION OF WATERS OF THE GILA RIVER

By the

**GILA WATER COMMISSIONER**

Patricia A. Doyle

To the

UNITED STATES DISTRICT COURT

Safford, Arizona  
December 2, 2019

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

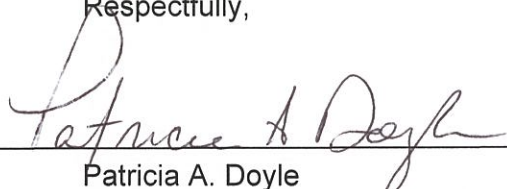
No. CV 31-0059-TUC-SRB  
aka Globe Equity No. 59

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

Dear Judge Bolton:

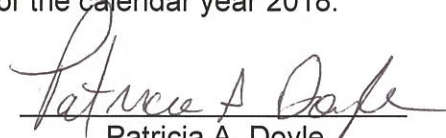
I submit herewith the Eighty-Third Annual Report in the above-entitled cause on distribution of waters of the Gila River, tabulation of hydro logic data, and analysis of expenditures and collections for the calendar year 2018.

Respectfully,

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

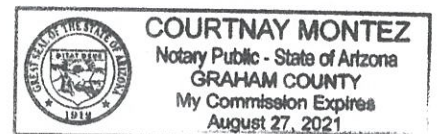
State of Arizona     )  
                                  ) ss:  
County of Graham    )

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 2018, 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 2018.

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

Subscribed and sworn to before me this 2 day of December, 2019.

Notary Public



My commission expires: Aug 21, 2021

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## Office Of The Gila Water Commissioner

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

### PERSONNEL

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

### 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 7,941.10 decreed acres; with lands in Hidalgo County, New Mexico and Greenlee County, Arizona. **Safford Valley**, 31,509.93 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, 2018, Stored water in the San Carlos Reservoir:	57,625	ac-ft
December 31, 2018 Stored water in San Carlos Reservoir:	19,415	ac-ft
Percent of total capacity.	2.25%	ac-ft

Apportioned to the Upper Valleys, (Franklin and Safford Valley), 1.95 ac-ft

A total of 1.95 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. 2.72 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: 136,364 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.

## 2018 WATER SUPPLY

Total flow of the Gila River, as recorded at Gila River at Head of Safford Valley Near Solomon: 102,527 ac-ft  
 Total Inflow into the San Carlos Reservoir from the Gila River and the San Carlos River 65,017 ac-ft  
 Total water spilled and sluiced at Ahsurt-Hayden Dam: 11,750 ac-ft

## COSPER CROSSING

When the Gila River in the vicinity of Coper 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
07/22/17	WET	REPORTED				
04/26/18	DRY	REPORTED				
07/11/18	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:

2018	Gila River below Blue Creek (good)*	San Francisco River at Clifton (good)*	Total	Gila at Calva (poor)*	Consumptive use	Accumulated Consumptive use
Jan.	4,668	3,342	8,010	8,113	-103	-103
Feb.	8,971	4,141	13,112	10,693	2,419	2,316
Mar.	6,883	3,804	10,687	3,355	7,332	9,648
Apr.	4,157	2,565	6,722	1,312	5,410	15,058
May	1,194	1,363	2,557	653	1,904	16,962
Jun.	156	613	769	185	584	17,546
Jul.	4,241	3,376	7,617	2,714	4,903	22,449
Aug.	3,939	4,460	8,399	6,123	2,276	24,725
Sep.	3,023	3,830	6,853	10,454	-3,601	21,124
Oct.	5,034	5,605	10,639	7,203	3,436	24,560
Nov.	5,743	3,578	9,321	6,764	2,557	27,117
Dec.	5,372	3,625	8,997	6,331	2,666	29,783
<b>TOTALS</b>	<b>53,381</b>	<b>40,302</b>	<b>93,683</b>	<b>63,900</b>	<b>29,783</b>	<b>29,783</b>

# UPPER VALLEYS 2018 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

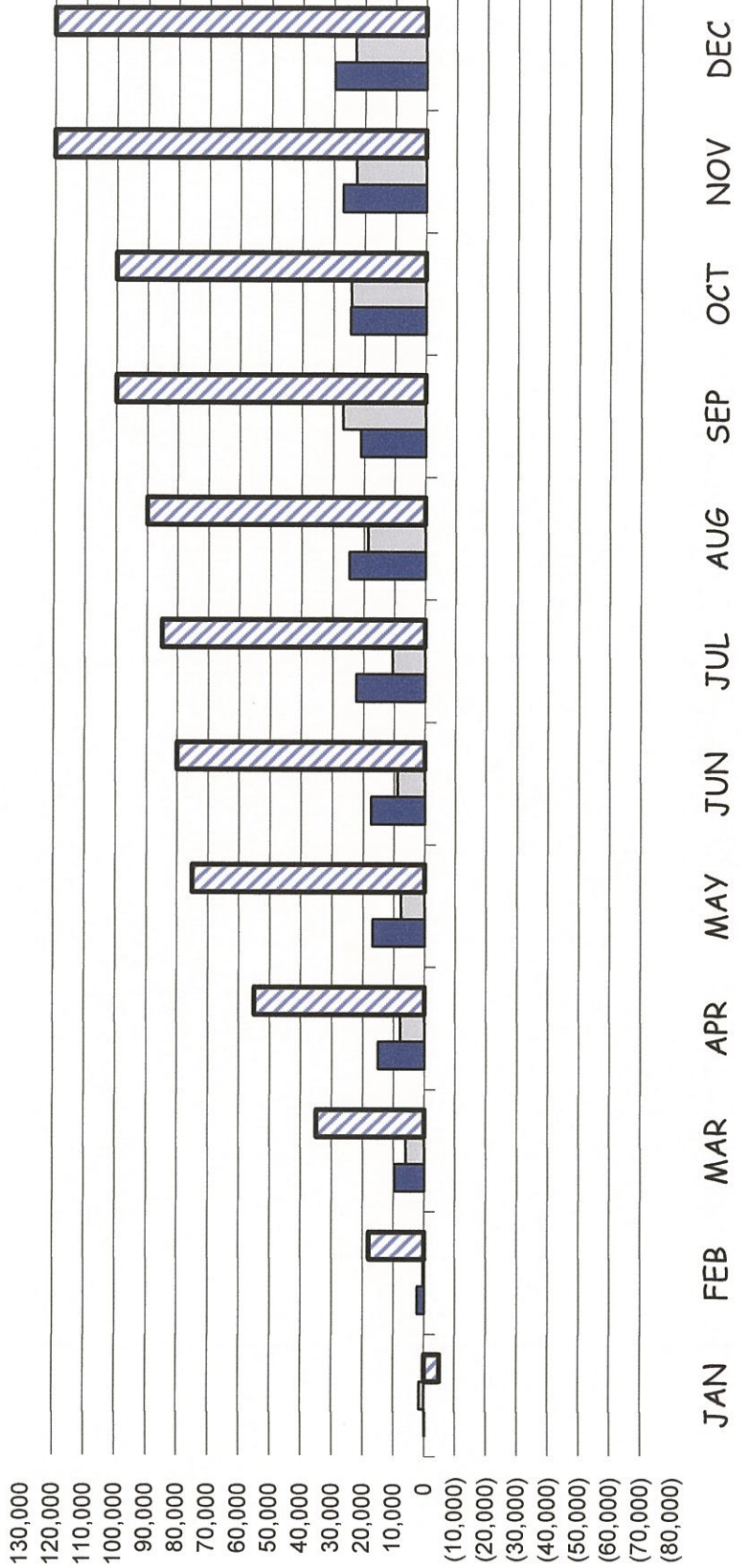
Input data rounded to USGS standards - IN ACRE-FEET

2018	CONSUMPTIVE USE		UPPER VALLEYS and San Carlos Apache Tribe		HEAD OF SAFFORD VALLEY		FLOW BALANCE					TOTAL INFLOW Gila + SF	MAXIMUM CONSUMPTIVE USE RECOMMENDED	
	RESULT	ACCUM. RESULT	DIVERSIONS	ACCUM DIV'S	GILA RIVER FLOW	GILA R. ACCUM FLOW	FLOW BALANCE	GILA CALVA	GILA VIRDEN	SAN FRANCISCO CLIFTON	DIVS			
JAN	-103	-103	1,411	1,411	9,753	9,753	1,514	8,113	4,668	3,342	1,411	8,010	75,000	
FEB	2,419	2,316	1,316	2,727	11,933	21,686	(1,103)	10,693	8,971	4,141	1,316	13,112	75,000	
MAR	7,332	9,648	12,963	15,690	10,334	32,020	5,631	3,355	6,883	3,804	12,963	10,687	75,000	
APR	5,410	15,058	7,209	22,899	5,506	37,526	1,799	1,312	4,157	2,565	7,209	6,722	75,000	
MAY	1,904	16,962	1,720	24,619	2,588	40,114	(184)	653	1,194	1,363	1,720	2,557	75,000	
JUN	584	17,546	1,792	26,411	1,515	41,629	1,208	185	156	613	1,792	769	80,000	
JUL	4,903	22,449	6,690	33,101	7,674	49,303	1,787	2,714	4,241	3,376	6,690	7,617	85,000	
AUG	2,276	24,725	10,273	43,374	11,429	60,732	7,997	6,123	3,939	4,460	10,273	8,399	90,000	
SEP	-3,601	21,124	4,624	47,998	12,427	73,159	8,225	10,454	3,023	3,830	4,624	6,853	100,000	
OCT	3,436	24,560	833	48,831	11,221	84,380	(2,603)	7,203	5,034	5,605	833	10,639	100,000	
NOV	2,557	27,117	978	49,809	8,805	93,185	(1,579)	6,764	5,743	3,578	978	9,321	120,000	
DEC	2,666	29,783	2,937	52,746	9,342	102,527	271	6,331	5,372	3,625	2,937	8,997	120,000	
<b>TOTALS</b>	<b>29,783</b>		<b>52,746</b>		<b>102,527</b>		<b>22,963</b>	<b>63,900</b>	<b>53,381</b>	<b>40,302</b>	<b>52,746</b>	<b>93,683</b>		
Graph	Consum. Use →		Diversions		Graph							Flow Bal	River Flow	Max Cons Use

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



# 2018 CONSUMPTIVE USE RECOMMENDATIONS Vs CUMULATIVE FLOW BALANCE



Consum. Use  
  Flow Balance  
  Max Cons Use

# 2018

## 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	4668	8971	6883	4158	1195	157	4241	3939	3023	5035	5743	5372	53383
Duncan Valley Diversions	232	429	1449	847	536	0	667	1074	633	289	269	187	6615
Gila River near Clifton	5428	7343	5556	2375	1229	1041	4963	5945	7158	5922	4647	4986	56592
San Fran. River @ Clifton	3342	4141	3804	2564	1362	613	3376	4460	3830	5605	3578	3625	40299
Gila Solomon	9753	11933	10334	5507	2588	1515	7674	11429	12427	11220	8805	9342	102527
Safford Valley Diversions	1178	888	11512	6362	1184	1792	6022	9199	3991	543	709	2748	46131
San Carlos Agency Divs.	0	0	0	0	0	0	0	0	0	0	0	0	0
Gila Calva	8113	10693	3355	1312	653	185	2714	6123	10454	7203	6764	6331	63899
San Carlos R. @ Peridot	0	0	82	14	0	0	2	872	84	51	0	0	1103
Stored Water	853	2932	9467	18516	20172	15315	266	285	32	0	0	0	67838
Gila Below Coolidge Dam	2849	8931	12768	19845	20829	15612	575	1539	1224	932	1493	716	87315
Winkelman Divs. (Indust)	705	611	698	870	933	999	975	900	697	696	841	749	9674
Winkelman Divs. (Ag.)	0	0	0	0	0	0	0	0	0	0	0	0	0
Gila River @ Kelvin	2513	9194	11893	18587	19299	15452	585	4202	4794	2745	1853	1631	92749
A-H Diversions	910	8567	10694	17364	17308	14569	708	2389	1435	0	0	0	73944
A-H Spilled	1190	238	4	0	0	0	0	0	3223	5052	1131	912	11750
A-H Sluiced	0	0	0	0	0	0	0	0	0	0	0	0	0
A-H Total	2100	8805	10698	17364	17308	14569	708	2389	4658	5052	1131	912	85694
Loss Kelvin to A-H	-413	-389	-1195	-1223	-1991	-883	123	-1813	-136	2307	-722	-719	-7055
Sacaton Diversions													0

### SUMMARY OF THE GILA RIVER SYSTEM

Quantities in Acre-feet

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

**2018**

Gila River Below Blue Creek .....	53,383
San Francisco River at Clifton .....	40,299
San Carlos River near Peridot .....	1,103
Gain from Gila Below Coolidge Dam to Gila at Kelvin .....	5,434

#### INFLOWS, SAN CARLOS RESERVOIR

Gila River at Calva plus San Carlos River near Peridot .....	65,003
--	--------

#### GILA RIVER BELOW COOLIDGE DAM

87,315

#### CONTENTS IN STORAGE, SAN CARLOS RESERVOIR

Available contents January 1, 2018 .....	57,625
Available contents December 31, 2018.....	19,415

#### WATER DIVERTED FROM THE GILA RIVER

Duncan-Virden Valley canal diversions .....	6,615
Safford Valley canal diversions .....	46,131
San Carlos Apache Tribe .....	0
Winkelman Valley Agricultural diversions .....	0
<b>Winkelman Valley industrial and municipal pumps</b>	
ASARCO Incorporated .....	9,503
Town of Kearny .....	171
<b>San Carlos Project</b>	
Natural flow Ashurst-Hayden Dam .....	15,475
Stored water Ashurst-Hayden Dam .....	58,469
Natural flow Sacaton Dam .....	0
<b>TOTAL DIVERSIONS .....</b>	<b>136,364</b>

#### SPILLED AND SLUICED ASHURT- HAYDEN DAM

11,750

# SAN CARLOS RESERVOIR (SCR)

January 1, 2018 available stored water in the SCR acre-feet. (Plate 48)	57,988	ac-ft
Maximum storage for the year was March 3, 2018 (Plate 48)	63,934	ac-ft
Computed evaporation from the surface of the SCR (Plate 49)	10,241	ac-ft
Computed annual rainfall on SCR (Plate 50)	1,701	ac-ft
Computed bank storage for SCR (Plate 44).	13,515	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 2018

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	01/01/18	57,625	22,217.67	2.13		2.13
Reallocation No. 1 of 1	02/01/18	57,625	24,977.87		0.24	1.89
2	02/01/18	63,477	24,977.89	0.06		1.95

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	02/01/18	100,546.00	0.51	0.51	18,838.65	2.72
<b>TOTAL</b>						2.72

## 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, 2018	6
January 31, 2018	6
February 28, 2018	6
March 31, 2018	5
April 30, 2018	5
May 31, 2018	5
June 30, 2018	3
July 31, 2018	2
August 31, 2018	1
September 30, 2018	1
October 31, 2018	1
November 30, 2018	1
December 31, 2018	1

## FREEPORT-McMORAN MORENCI, INCORPORATED

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

2018	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	662	861	1,523	1,620	97
February	818	731	1,549	1,730	181
March	1,148	382	1,530	1,811	281
April	917	1,007	1,924	1,953	29
May	235	1,547	1,782	1,836	54
June		1,592	1,592	1,650	58
July	180	1,916	2,096	1,940	
August	930	1,337	2,267	2,269	2
September	979	1,013	1,992	1,938	
October	961	922	1,883	1,944	61
November	1,091	880	1,971	1,898	
December	1,131	803	1,934	1,925	
<b>TOTALS</b>	<b>9,052</b>	<b>12,991</b>	<b>22,043</b>	<b>22,514</b>	<b>763</b>
By-pass					
<b>TOTAL</b>					<b>763</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 2018 have been supplied to the Water Commissioner and summarized on Plate 5 of the 2018 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 2018. 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 2018**

The Seasonal Average Salinity on October 31, 2018 was **2,704** uS/cm. Daily data in support of the above figures can be found in the Water Commissioner's 2018 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  
2018**

The following table for the year 2018 show daily flows and salinity at Geronimo Station

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



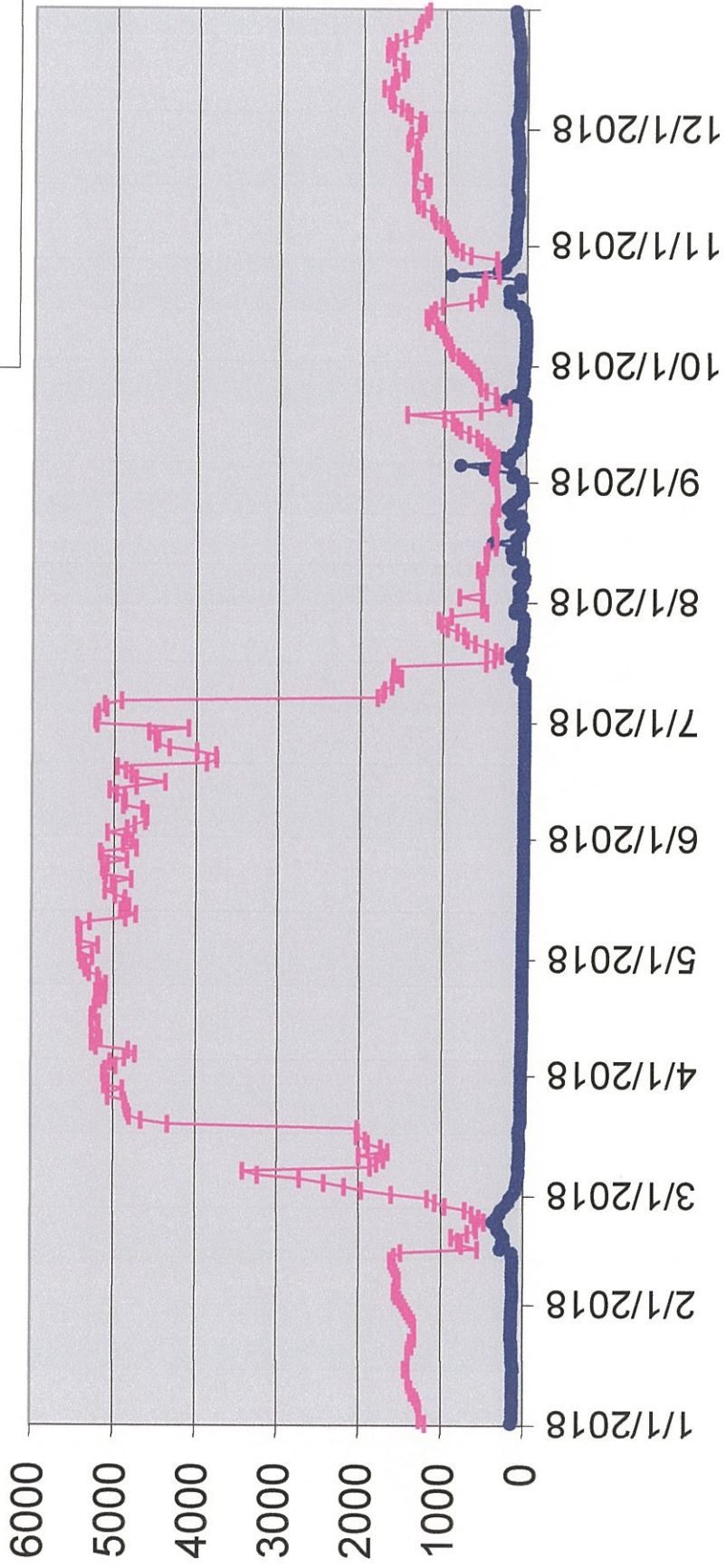
**GERONIMO STATION WATER QUALITY REPORT  
COMPARISON OF ELECTRIC CONDUCTIVITY TO FLOW  
DAILY AVERAGE**

Date:	Flow	EC	Date:	Flow	EC	Date:	Flow	EC	Date:	Flow	EC
	Cfs	MicroS-cm		Cfs	MicroS-cm		Cfs	MicroS-cm		Cfs	MicroS-cm
1-Jan	149	1189	1-Apr	35	5122	1-Jul	1	5232	1-Oct	20	736
2-Jan	135	1263	2-Apr	35	5100	2-Jul	1	5226	2-Oct	15	779
3-Jan	133	1257	3-Apr	31	4966	3-Jul	1	5191	3-Oct	18	835
4-Jan	135	1250	4-Apr	31	5037	4-Jul	1	5091	4-Oct	16	903
5-Jan	133	1259	5-Apr	32	4861	5-Jul	1	5116	5-Oct	12	928
6-Jan	130	1277	6-Apr	33	4734	6-Jul	1	4912	6-Oct	10	936
7-Jan	130	1290	7-Apr	30	4820	7-Jul	1	1789	7-Oct	10	974
8-Jan	132	1317	8-Apr	27	5210	8-Jul	1	1725	8-Oct	10	999
9-Jan	130	1360	9-Apr	26	5268	9-Jul	4	1704	9-Oct	10	1012
10-Jan	130	1362	10-Apr	27	5153	10-Jul	2	1618	10-Oct	10	1047
11-Jan	130	1389	11-Apr	26	5195	11-Jul	2	1613	11-Oct	12	1097
12-Jan	130	1398	12-Apr	26	5265	12-Jul	70	1500	12-Oct	14	1200
13-Jan	130	1401	13-Apr	22	5193	13-Jul	68	1550	13-Oct	25	1227
14-Jan	130	1391	14-Apr	25	5175	14-Jul	90	1600	14-Oct	50	1165
15-Jan	120	1442	15-Apr	24	5271	15-Jul	55	1600	15-Oct	45	1120
16-Jan	127	1392	16-Apr	21	5267	16-Jul	58	474	16-Oct	90	1029
17-Jan	132	1395	17-Apr	23	5228	17-Jul	38	373	17-Oct	210	682
18-Jan	132	1395	18-Apr	23	5233	18-Jul	170	290	18-Oct	200	552
19-Jan	135	1400	19-Apr	22	5220	19-Jul	120	357	19-Oct	210	578
20-Jan	135	1387	20-Apr	22	5162	20-Jul	50	474	20-Oct	215	503
21-Jan	138	1348	21-Apr	22	5102	21-Jul	30	609	21-Oct	85	511
22-Jan	138	1371	22-Apr	21	5217	22-Jul	25	705	22-Oct	80	530
23-Jan	146	1316	23-Apr	23	5151	23-Jul	20	744	23-Oct	75	509
24-Jan	148	1316	24-Apr	20	5091	24-Jul	20	831	24-Oct	920	341
25-Jan	145	1314	25-Apr	21	5168	25-Jul	15	949	25-Oct	350	340
26-Jan	145	1313	26-Apr	20	5191	26-Jul	13	1017	26-Oct	270	361
27-Jan	140	1329	27-Apr	20	5297	27-Jul	12	1057	27-Oct	250	369
28-Jan	145	1356	28-Apr	19	5344	28-Jul	30	900	28-Oct	200	369
29-Jan	140	1385	29-Apr	18	5351	29-Jul	130	471	29-Oct	165	690
30-Jan	139	1417	30-Apr	18	5393	30-Jul	125	528	30-Oct	150	793
31-Jan	137	1441	1-May	17	5258	31-Jul	60	514	31-Oct	150	869
1-Feb	137	1471	2-May	17	5418	1-Aug	80	523	1-Nov	145	908
2-Feb	133	1499	3-May	17	5410	2-Aug	40	800	2-Nov	140	933
3-Feb	130	1549	4-May	16	5186	3-Aug	75	521	3-Nov	145	965
4-Feb	130	1568	5-May	16	5414	4-Aug	80	516	4-Nov	145	963
5-Feb	134	1553	6-May	15	5427	5-Aug	40	511	5-Nov	140	991
6-Feb	134	1525	7-May	15	5399	6-Aug	20	536	6-Nov	135	1058
7-Feb	138	1505	8-May	14	5404	7-Aug	10	531	7-Nov	130	1122
8-Feb	136	1525	9-May	14	5436	8-Aug	90	520	8-Nov	125	1139
9-Feb	136	1547	10-May	13	5291	9-Aug	30	580	9-Nov	110	1167
10-Feb	134	1573	11-May	13	4853	10-Aug	28	479	10-Nov	110	1271
11-Feb	132	1589	12-May	14	4727	11-Aug	40	470	11-Nov	108	1338
12-Feb	130	1614	13-May	14	4916	12-Aug	160	480	12-Nov	109	1335
13-Feb	134	1567	14-May	14	4813	13-Aug	130	490	13-Nov	105	1354
14-Feb	142	1487	15-May	14	4872	14-Aug	175	458	14-Nov	115	1389
15-Feb	280	553	16-May	14	4861	15-Aug	120	362	15-Nov	125	1215
16-Feb	230	750	17-May	12	4985	16-Aug	400	359	16-Nov	120	1189
17-Feb	250	791	18-May	13	5110	17-Aug	120	353	17-Nov	120	1242
18-Feb	240	873	19-May	13	4985	18-Aug	70	349	18-Nov	115	1380
19-Feb	270	674	20-May	12	5022	19-Aug	50	362	19-Nov	110	1374
20-Feb	310	570	21-May	12	4786	20-Aug	30	400	20-Nov	110	1357
21-Feb	315	585	22-May	11	5097	21-Aug	190	385	21-Nov	110	1390
22-Feb	370	474	23-May	11	5120	22-Aug	130	386	22-Nov	100	1317
23-Feb	320	538	24-May	9	5141	23-Aug	60	407	23-Nov	100	1313
24-Feb	290	626	25-May	9	5077	24-Aug	180	378	24-Nov	110	1359
25-Feb	270	708	26-May	8	4840	25-Aug	220	332	25-Nov	110	1332
26-Feb	220	953	27-May	9	5144	26-Aug	170	336	26-Nov	111	1352
27-Feb	182	1073	28-May	8	5165	27-Aug	110	353	27-Nov	113	1460
28-Feb	170	1169	29-May	8	4725	28-Aug	60	343	28-Nov	113	1439
1-Mar	130	1606	30-May	8	4888	29-Aug	35	345	29-Nov	119	1420
2-Mar	100	1967	31-May	7	4776	30-Aug	40	348	30-Nov	126	1319
3-Mar	90	2179	1-Jun	6	4855	31-Aug	40	359	1-Dec	123	1298
4-Mar	84	2424	2-Jun	6	5079	1-Sep	45	355	2-Dec	133	1258
5-Mar	73	2724	3-Jun	7	4838	2-Sep	160	394	3-Dec	130	1306
6-Mar	62	3240	4-Jun	7	4746	3-Sep	150	426	4-Dec	111	1426
7-Mar	60	3418	5-Jun	7	4619	4-Sep	500	410	5-Dec	106	1475
8-Mar	70	1862	6-Jun	7	4597	5-Sep	800	354	6-Dec	101	1546
9-Mar	60	1786	7-Jun	5	4598	6-Sep	210	340	7-Dec	100	1636
10-Mar	58	1699	8-Jun	5	4648	7-Sep	300	341	8-Dec	100	1677
11-Mar	55	2001	9-Jun	5	4885	8-Sep	170	400	9-Dec	93	1688
12-Mar	54	1647	10-Jun	6	4857	9-Sep	110	450	10-Dec	96	1653
13-Mar	52	1733	11-Jun	6	4870	10-Sep	75	480	11-Dec	96	1760
14-Mar	53	1888	12-Jun	5	4967	11-Sep	55	550	12-Dec	96	1659
15-Mar	55	1921	13-Jun	4	5053	12-Sep	60	600	13-Dec	100	1599
16-Mar	58	2030	14-Jun	4	4724	13-Sep	45	700	14-Dec	100	1623
17-Mar	58	2006	15-Jun	4	4373	14-Sep	35	800	15-Dec	105	1517
18-Mar	55	2018	16-Jun	4	4724	15-Sep	30	850	16-Dec	109	1478
19-Mar	40	4336	17-Jun	4	4785	16-Sep	15	900	17-Dec	109	1528
20-Mar	35	4659	18-Jun	4	4856	17-Sep	15	1005	18-Dec	106	1526
21-Mar	35	4800	19-Jun	3	4959	18-Sep	13	1454	19-Dec	99	1638
22-Mar	35	4819	20-Jun	3	3868	19-Sep	14	558	20-Dec	95	1717
23-Mar	37	4839	21-Jun	4	3748	20-Sep	12	204	21-Dec	95	1673
24-Mar	35	4850	22-Jun	4	3757	21-Sep	13	349	22-Dec	97	1706
25-Mar	35	4860	23-Jun	3	3992	22-Sep	240	369	23-Dec	100	1610
26-Mar	35	5064	24-Jun	2	4327	23-Sep	145	375	24-Dec	105	1503
27-Mar	36	5064	25-Jun	2	4495	24-Sep	60	491	25-Dec	119	1375
28-Mar	35	4885	26-Jun	2	4460	25-Sep	45	558	26-Dec	120	1331
29-Mar	33	5108	27-Jun	2	4502	26-Sep	35	567	27-Dec	130	1324
30-Mar	35	5059	28-Jun	2	4577	27-Sep	30	573	28-Dec	135	1300
31-Mar	32	5095	29-Jun	2	4093	28-Sep	40	601	29-Dec	137	1230
			30-Jun	2	5213	29-Sep	35	654	30-Dec	148	1240
						30-Sep	35	687	31-Dec	148	1203

# WATER QUALITY DATA @ GERONIMO STATION

● RIVER FLOW CFS

— EC = us/cm



## 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 2018, 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 2018.

## 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 2018), 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 2018.

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	21.09	5.78	0.90	0.00	0.00	0.00	27.77
Safford Valley	430.99	202.03	3.76	2.94	16.92	44.01	4.60	274.26
Lower Valley SCIDD	19.20	11.47	0.00	0.00	0.00	1.00	0.00	12.47
<b>TOTAL</b>	<b>486.83</b>	<b>234.59</b>	<b>9.54</b>	<b>3.84</b>	<b>16.92</b>	<b>45.01</b>	<b>4.60</b>	<b>314.50</b>

The percent of Small Parcel TBI decreed lands irrigated in 2018 was 64.6 percent of the total Small Parcel decreed lands submitted to the Commissioner’s Office in 2018.

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**

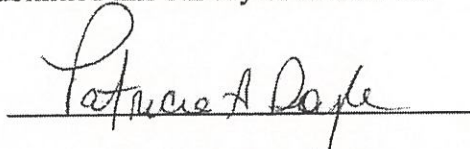
19  
20  
21 The Court in its Final Memorandum and Order dated September 18, 1992 and  
22 Phase IV Memorandum and Order dated April 14, 1995, ordered that TBI regulations be  
23 adopted. The TBI Regulations were approved and adopted by the court by order dated  
24 June 3, 1996. These Regulations require 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  
16  
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24  
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### 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%

Audit resulted in 0.00 acres in possible violation.

**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  
Alissa Macias  
Water Specialist II

6/6/18  
Date

Patricia A. Doyle  
Patricia A. Doyle  
Water Commissioner

6/6/18  
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
	GPM	1,050.00
Totals	In Gallons	163,833,722.50
	In Acre Feet	502.79

# 2018

## SIGNIFICANT COURT ORDERS

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

<u>Date of Order</u>	<u>Order</u>
2/12/2018	Order Granting Motion of Transfer Doc 8022 in CV31-00059 and Coc 29 in CV17-00626
4/23/2018	Order on Motion to Withdraw as Counsel of Record
5/10/2018	Order Continuing the Hearing on the Motion to Dismiss Second Amended Complaint
6/11/2018	Order to Adopt the Globe Equity Water Rights Database
7/5/2018	Order Community Objection to 2014-02
7/17/2018	Order Granting objectors Motion for Summary and Proposed Abandonment on Freeport Applications
7/20/2018	Order Denying to Dismiss Second Amendment Case Doc 46
8/10/2018	Order Howards Motion to Abanon Decree Rights 2014-01
9/18/2018	Order of Forfeited and Extiguishing Water Rights - Freeport Minerals Coporation Applications
10/10/2018	Order Granting Extension of Time Howard 2014-01
10/25/2018	Order Directing Parties to Propose Discover Schedule Howard 2014-01
10/25/2018	Order Amend Case Management S&R Daley 2014-02
10/29/2018	Order Approving Cynthia Hancock Johnson
10/29/2018	Order Amend Deadline S&R Daley 2014-02
11/7/2018	Order Substitution of Lauren J. Caster and Kevin J. Bonner as counsel for S&R Daley LP 2014-02
11/8/2018	Order Substitution of Lauren J. Caster and Kevin J. Bonner as counsel for Howard Living Trust 2014-01
11/14/2018	Order of Abandonment Gila River Indian Community and Glenbar Investment Group Inc.
11/14/2018	Order Case Management Order to govern the Litigation in Howard Living Trust No. 2014-01
11/15/2018	Order Substituting Lauren J Caster and Kevin J. Bonner as Counsel for Howard Living Trust 2014-01
11/15/2018	Order Substituting Lauren J Caster and Kevin J. Bonner as Counsel for S&R Daley LP 2014-02

**2018**

**SIGNIFICANT COURT ORDERS**

**Date of Order**

**Order**

11/26/2018 Order Granting San Carlos Apache Tribes Motion Amend Objections S&R Daley 2014-02

11/26/2018 Order Granting Motion to Amend Objection and Counterclaim S&R Daley Application 2014-02

11/26/2018 Order Granting Motion to Amend S&T 2014-02

11/26/2018 Order S&R Daley LP S&T 2014-02 Supplemented Revised Descriptions

12/6/2018 Order Second Amended Case Management Order to Govern the Litigation S&R Daley LP 2014-02

12/7/2018 Order Setting Date for Objections GWC petition of 2019 Budget

12/12/2018 Order Approval of Stipulation from Gila River Indian Community and Freeport Minerals Corporation

**2018**  
**FINANCIAL STATEMENT**  
**WATER COMMISSIONER'S ACCOUNT**  
RECEIPTS

<u>Plaintiffs</u>	General	Settlement	Totals	
San Carlos Irrigation Project	\$502,285.26	\$80,651.26	\$582,936.52	
San Carlos Agency	\$4,920.00		\$4,920.00	
Gila Crossing	\$14,723.10	\$2,364.08	\$17,087.18	
	<u>\$ 521,928.36</u>	<u>\$ 83,015.34</u>	<u>\$ 604,943.70</u>	\$604,943.70
<u>Defendants</u>				
Gila Valley Irrigation District	\$155,325.33	\$24,940.45	\$180,265.78	
Franklin Irrigation District	\$19,112.48	\$3,068.87	\$22,181.35	
Sunset Ditch Company	\$12,023.99	\$1,930.68	\$13,954.67	
Model Canal Company	\$2,047.70	\$328.80	\$2,376.50	
ASARCO	\$19,241.48		\$19,241.48	
Town of Kearny	\$500.51		\$500.51	
York Valley & Winkelman Valley	\$1,826.34		\$1,826.34	
	<u>\$210,077.83</u>	<u>\$30,268.80</u>	<u>\$240,346.63</u>	\$240,346.63
Miscellaneous Receipts	\$797.53		\$797.53	
Interest Income	\$615.35		\$615.35	
Supplemental Reports	\$0.00		\$0.00	
Transfer Additional Fees	\$0.00		\$0.00	
	<u>\$1,412.88</u>		<u>\$1,412.88</u>	\$1,412.88
		<u>Total Receipts</u>		<u>\$846,703.21</u>

DISBURSEMENTS

<u>Personnel</u>	General	Settlement	Totals	
Patricia A. Doyle	\$94,012.00	\$8,000.00	\$102,012.00	
Paul Curtis	\$68,995.00	\$12,000.00	\$80,995.00	
Casey Windsor	\$55,750.00	\$10,000.00	\$65,750.00	
Alissa Macias	\$49,019.00	\$6,000.00	\$55,019.00	\$303,776.00
<u>Employer taxes and contributions</u>				
Federal Withholding	\$26,778.00		\$26,778.00	
Medicare	\$4,500.42		\$4,500.42	
Social Security	\$19,243.21		\$19,243.21	
Federal Unemployment Tax	\$1,680.00		\$1,680.00	
Arizona Withholding	\$9,104.56		\$9,104.56	\$61,306.19
<u>Overtime Weekend</u>				
Casey Windsor	\$3,534.74		\$3,534.74	
Alissa Macias	\$3,159.18		\$3,159.18	
	<u>6,693.92</u>		<u>6,693.92</u>	\$6,693.92
<u>Employee Benefit Plan</u>				
Retirement	\$18,216.00		\$18,216.00	
Medical Insurance	\$63,347.33		\$63,347.33	
Copper Point Workman's comp	\$8,011.84		\$8,011.84	
Yearly Pension Plan Administration	1,500.00		\$1,500.00	
Charles Whetstine	435.00		\$435.00	
	<u>\$91,510.17</u>	<u>\$0.00</u>	<u>\$91,510.17</u>	\$91,510.17
<u>Travel plus Allowance</u>				
Patricia A. Doyle	\$2,198.14	\$315.35	\$2,513.49	
Paul Curtis	\$438.46	\$0.00	\$438.46	
Casey Windsor	\$2,409.54	\$260.82	\$2,670.36	
Alissa Macias	\$361.15	\$315.75	\$676.90	
	<u>\$5,407.29</u>	<u>\$891.92</u>	<u>\$6,299.21</u>	\$6,299.21
<u>Attorney Fees</u>				
2017 4th Quarter	\$88,380.00	\$0.00	\$88,380.00	
2018 Brent F. Moody	\$222,920.00	\$6,450.00	\$229,370.00	\$317,750.00
<u>Geronimo Station expenses</u>				
	\$0.00		\$0.00	
<u>Joint Funding (Stream flow records)</u>				
	\$119,500.00		\$119,500.00	
<u>Univeristy of Arizona</u>				
		\$5,200.00	\$5,200.00	\$124,700.00
<u>Capital Purchases</u>				
Computer and Software	\$383.00		\$383.00	
Database	\$477.96	\$4,364.00	\$4,841.96	
	<u>\$860.96</u>		<u>\$5,224.96</u>	\$5,224.96
<u>Expenses</u>				
Communications	\$1,200.00		\$1,200.00	
Insurance & Bonds	\$8,320.48		\$8,320.48	
Office Expenses	\$14,000.67	\$261.13	\$14,261.80	
Field Expenses	\$272.80	\$18.53	\$291.33	
Rent and Utilities	\$16,051.78		\$16,051.78	
Contingency Fund	\$0.00		\$0.00	
	<u>\$39,845.73</u>	<u>\$279.66</u>	<u>\$40,125.39</u>	\$40,125.39

<u>Total Disbursements</u>	\$957,385.84
<u>Total Receipts</u>	\$846,703.21
<u>Total Remaining</u>	(\$110,682.63)

# Land Use Audits 2018

## 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):

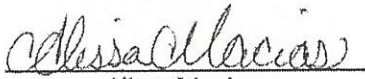
2016 Decreed acreage reported:	50,546.00
2016 TBI acreage reported:	18,361.17
TBI acreage audited:	4,537.85
Percentage of TBI acreage audited for 2016:	24.71%

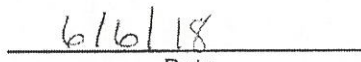
Audit resulted in 0.00 acres in possible violation.

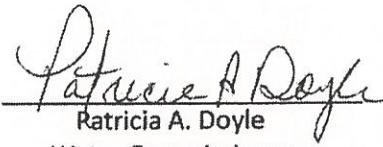
**San Carlos Apache Tribe (SCAR):**

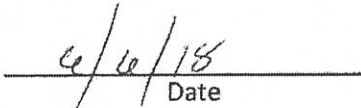
2016 Decreed acreage reported:	1,000.00
2016 TBI acreage reported:	285.20
TBI acreage audited:	285.20
Percentage of TBI acreage audited for 2016:	100%

Audit resulted in 0.00 acres in possible violation.

  
Alissa Macias  
Water Specialist II

  
Date

  
Patricia A. Doyle  
Water Commissioner

  
Date

# CALENDAR YEAR 2018

## GILA RIVER DECREED ACREAGES AND DIVERSIONS

<u>DUNCAN VALLEY CANALS</u>	<u>Acreages</u>	<u>TBI Acres</u>	<u>Acre-feet</u>	<u>TBI a-f/a</u>
Sunset	2,759.90	2,158.51	4,883	2.26
New Model Valley	2,597.65	1,477.29	1,479	1.00
Colmenero	1,386.85	655.90	253	0.39
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>7,941.10</b>	<b>4,291.70</b>	<b>6,615</b>	<b>1.54</b>

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

### SAFFORD VALLEY DIVERSIONS

Consolidated Brown	1,311.28	822.24	2,158	2.62
Fourness	210.70	161.40	332	2.06
San Jose	4,119.58	3,247.98	7,324	2.25
Montezuma	4,715.78	3,236.55	5,735	1.77
Union	7,220.84	5,010.34	11,305	2.26
Graham	4,217.68	3,395.05	4,194	1.24
Smithville	2,395.63	1,987.69	2,733	1.37
Dodge-Nevada	2,516.54	2,115.79	3,455	1.63
Curtis	1,971.70	1,601.54	5,078	3.17
Fort Thomas	2,624.30	1,254.14	3,817	3.04
Colvin-Jones	205.90	0.00	0	0.00
<b>Totals</b>	<b>31,509.93</b>	<b>22,832.72</b>	<b>46,131</b>	<b>2.02</b>

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

### SAN CARLOS APACHE RESERVATION

Black Point	73.40	0.00	0	#DIV/0!
Bylas (Navajo Point)	152.20	0.00	0	#DIV/0!
Anderson Flat	85.80	0.00	0	#DIV/0!
Non-designated lands	688.60	0.00	0	0.00
<b>Totals</b>	<b>1,000.00</b>	<b>0.00</b>	<b>0</b>	<b>#DIV/0!</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	9,503	
Domestic/Municipal (Kearny, Arizona)	101.73	101.73	171	1.68
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>9,674</b>	<b>1.68</b>

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

<u>UNITED STATES OF AMERICA</u>	<u>Acreages</u>	<u>TBI Acres</u>		<u>Acre-feet</u>	<u>Decreed Duty a-f/a</u>	<u>TBI Duty a-f/a</u>
Indian lands (Alloted/Tribal):	50,000.00	17,851.34	Nat. flow	4,892	0.1	0.27
Federal Agencies	546.00	0.00	Stored	26,344	0.52	1.48
	50,546.00	17,851.34		31,236	0.62	1.75
<b>White Lands:</b>						
San Carlos Irrigation & Drainage Dist.	50,000.00	1,401.32	Nat. flow	6,434	0.13	
			Stored	30,203	0.6	21.55
	50,000.00	1,401.32		36,637	0.73	26.14
Natural Flow Lands	1,544.50	528.00		0	0	0.00
	51,544.50	1,929.32		36,637	0.71	18.99
<b>Totals</b>	<b>102,090.50</b>	<b>19,780.66</b>		<b>67,872</b>	<b>0.66</b>	<b>3.43</b>
	102,090.50	19,780.66	Nat. flow	11,326	0.11	0.57
	100,546.00	19,780.66	Stored	56,547	0.55	2.86

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

Diversions from Picacho 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  
2018**

**Anderson Flat**

This annual farm report by the GWC is pursuant to the Courts Water Quality Injunction 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)	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 Farm Reports Received for 2018
	1048	None		0.00							
	1049	None		0.00							
Feb	1050	None		0.00							No Farm Reports Received for 2018
	1047	None		0.00							
	1048	None		0.00							
Mar	1049	None		0.00							No Farm Reports Received for 2018
	1050	None		0.00							
	1047	None		0.00							
Apr	1048	None		0.00							No Farm Reports Received for 2018
	1049	None		0.00							
	1050	None		0.00							
May	1047	None		0.00							No Farm Reports Received for 2018
	1048	None		0.00							
	1049	None		0.00							
June	1050	None		0.00							No Farm Reports Received for 2018
	1047	None		0.00							
	1048	None		0.00							
July	1049	None		0.00							No Farm Reports Received for 2018
	1050	None		0.00							
	1047	None		0.00							
Aug	1048	None		0.00							No Farm Reports Received for 2018
	1049	None		0.00							
	1050	None		0.00							
Sept	1047	None		0.00							No Farm Reports Received for 2018
	1048	None		0.00							
	1049	None		0.00							
Oct	1050	None		0.00							No Farm Reports Received for 2018
	1047	None		0.00							
	1048	None		0.00							
Nov	1049	None		0.00							No Farm Reports Received for 2018
	1050	None		0.00							
	1047	None		0.00							
Dec	1048	None		0.00							No Farm Reports Received for 2018
	1049	None		0.00							
	1050	None		0.00							

**SAN CARLOS APACHE TRIBE FARM REPORT  
2018**

**Navajo 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 Diversion s (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 Farm Reports Received for 2018
	1043	None		0.00							
	1044	None		0.00							
	1045	None		0.00							
Feb	1046	None		0.00							No Farm Reports Received for 2018
	1041	None		0.00							
	1043	None		0.00							
	1044	None		0.00							
Mar	1045	None		0.00							No Farm Reports Received for 2018
	1046	None		0.00							
	1041	None		0.00							
	1043	None		0.00							
April	1044	None		0.00							No Farm Reports Received for 2018
	1045	None		0.00							
	1046	None		0.00							
	1041	None		0.00							
May	1043	None		0.00							No Farm Reports Received for 2018
	1044	None		0.00							
	1045	None		0.00							
	1046	None		0.00							
Jun	1041	None		0.00							No Farm Reports Received for 2018
	1043	None		0.00							
	1044	None		0.00							
	1045	None		0.00							
July	1046	None		0.00							No Farm Reports Received for 2018
	1041	None		0.00							
	1043	None		0.00							
	1044	None		0.00							
Aug	1045	None		0.00							No Farm Reports Received for 2018
	1046	None		0.00							
	1041	None		0.00							
	1043	None		0.00							
Sept	1044	None		0.00							No Farm Reports Received for 2018
	1045	None		0.00							
	1046	None		0.00							
	1041	None		0.00							
Oct.	1043	None		0.00							No Farm Reports Received for 2018
	1044	None		0.00							
	1045	None		0.00							
	1046	None		0.00							
Nov	1041	None		0.00							No Farm Reports Received for 2018
	1043	None		0.00							
	1044	None		0.00							
	1045	None		0.00							
Dec	1046	None		0.00							No Farm Reports Received for 2018
	1041	None		0.00							
	1043	None		0.00							
	1044	None		0.00							

SAN CARLOS APACHE TRIBE FARM REPORT  
2018

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 Farm Reports Received for 2018
	1021W	None		0.00							
	1022E	None		0.00							
Feb	1022W	None		0.00							No Farm Reports Received for 2018
	1021E	None		0.00							
	1021W	None		0.00							
Mar	1022E	None		0.00							No Farm Reports Received for 2018
	1022W	None		0.00							
	1021E	None		0.00							
Apr	1021W	None		0.00							No Farm Reports Received for 2018
	1022E	None		0.00							
	1022W	None		0.00							
May	1021E	None		0.00							No Farm Reports Received for 2018
	1021W	None		0.00							
	1022E	None		0.00							
June	1022W	None		0.00							No Farm Reports Received for 2018
	1021E	None		0.00							
	1021W	None		0.00							
July	1022E	None		0.00							No Farm Reports Received for 2018
	1022W	None		0.00							
	1021E	None		0.00							
Aug	1021W	None		0.00							No Farm Reports Received for 2018
	1022E	None		0.00							
	1022W	None		0.00							
Sept	1021E	None		0.00							No Farm Reports Received for 2018
	1021W	None		0.00							
	1022E	None		0.00							
Oct	1022W	None		0.00							No Farm Reports Received for 2018
	1021E	None		0.00							
	1021W	None		0.00							
Nov	1022E	None		0.00							No Farm Reports Received for 2018
	1022W	None		0.00							
	1021E	None		0.00							
Dec	1021W	None		0.00							No Farm Reports Received for 2018
	1022E	None		0.00							
	1022W	None		0.00							



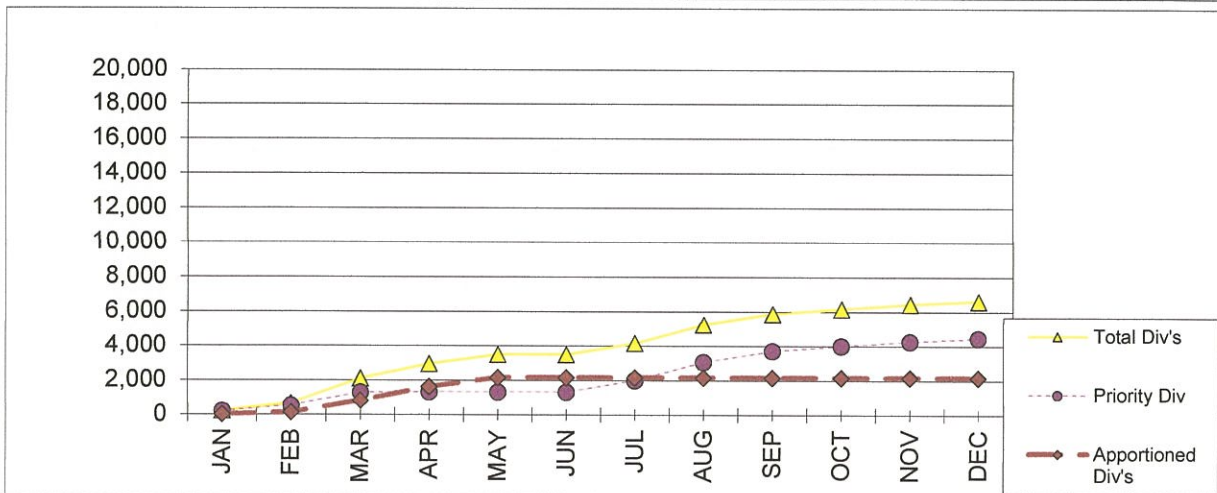
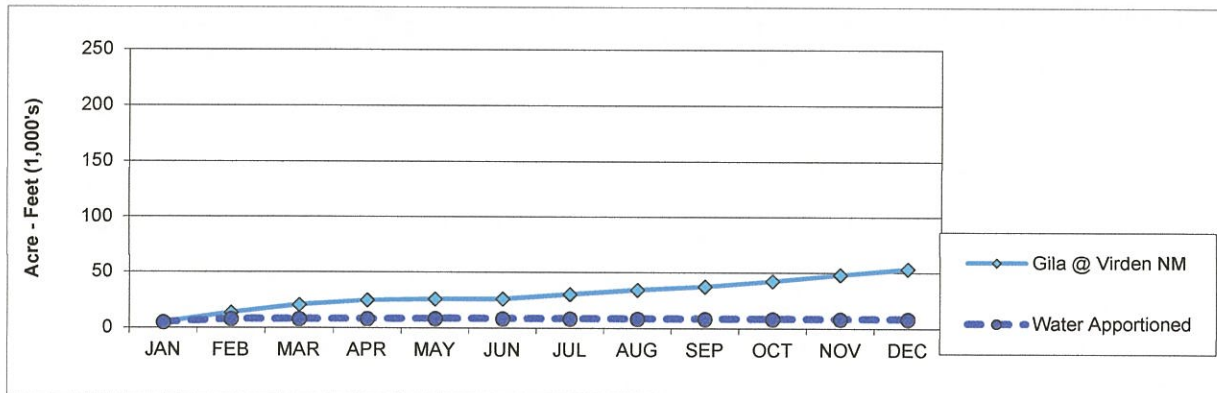
# 2018

## 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	4,668	4,668	232	213	19	4,667
FEB	8,971	13,639	661	529	132	7,654
MAR	6,883	20,522	2,111	1,291	820	7,782
APR	4,157	24,679	2,958	1,329	1,629	7,973
MAY	1,194	25,873	3,494	1,329	2,165	8,230
JUN	156	26,029	3,494	1,329	2,165	8,281
JUL	4,241	30,270	4,161	1,996	2,165	8,369
AUG	3,939	34,209	5,235	3,070	2,165	8,369
SEP	3,023	37,232	5,868	3,703	2,165	8,369
OCT	5,034	42,266	6,158	3,993	2,165	8,369
NOV	5,743	48,009	6,427	4,262	2,165	8,369
DEC	5,372	53,381	6,615	4,450	2,165	8,369

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







# 2018

## VALLEY CANAL: 1,387.20 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										3.2		3.2						
2										3.2		3.2						
3										3.2		3.2						
4										3.0		3.0						
5							2.4	2.4										
6							3.4	3.4										
7							3.0	3.0										
8							3.4	3.4										
9							3.8	3.8										
10							3.6	3.6										
11							3.6	3.4	0.2									
12							3.6	3.6										
13							3.6	3.4	0.2									
14							3.6	3.4	0.2									
15							3.7	0.5	3.2									
16							3.5	3.4	0.1									
17							3.5	0.9	2.6									
18							3.5	3.4	0.1									
19							3.4	3.4										
20							3.2	0.9	2.3									
21							3.5		3.5									
22							3.4		3.4									
23							3.2		3.2									
24							3.0		3.0									
25							2.4		2.4									
26							1.9		1.9									
27							2.8		2.8									
28							3.8		3.8									
29							3.8		3.8									
30							3.6		3.6									
31							3.5		3.5									
<b>Total</b>							89.7	45.9	43.8	12.6		12.6						
Acre-feet									178			25						
Priority Diverted									91									
Apport Diverted									87			25						
Apport diverted to date									87			112			112			112
TBI acreage		548.60			655.90				655.90			655.90			655.90			655.90
Apportioned		1,169			1,279				1,279			1,279			1,279			1,279
Duty									0.27			0.04						

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													1.4	1.4						
15													3.2	3.2						
16													3.1	3.1						
17													3.1	3.1						
18		0.7	0.7										1.7	1.7						
19		2.8	2.8																	
20		2.0	2.0																	
21		2.1	2.1																	
22		1.6	1.6																	
23		1.2	1.2																	
24		1.8	1.8																	
25		0.5	0.5																	
26																				
27																				
28																				
29																				
30																				
31																				
<b>Total</b>		12.7	12.7										12.5	12.5						
Acre-feet			25											25					253	
Priority Diverted			25											25					141	
Apport Diverted																			112	
Apport diverted to date			112		112				112			112		112			112		112	
TBI acreage		655.90			655.90				655.90			655.90		655.90			655.90		655.90	
Apportioned		1,279			1,279				1,279			1,279		1,279			1,279		1,279	
Duty			0.04											0.04					0.39	

Diversions on North side of Gila River in NE 1/4 NW 1/4, Sec. 4, T. 19S, R. 21W, NMPM. Water-stage recorder and 6 ft. Parshall flume located in NW 1/4 SE 1/4, Sec. 34, T. 8S, R. 32E.



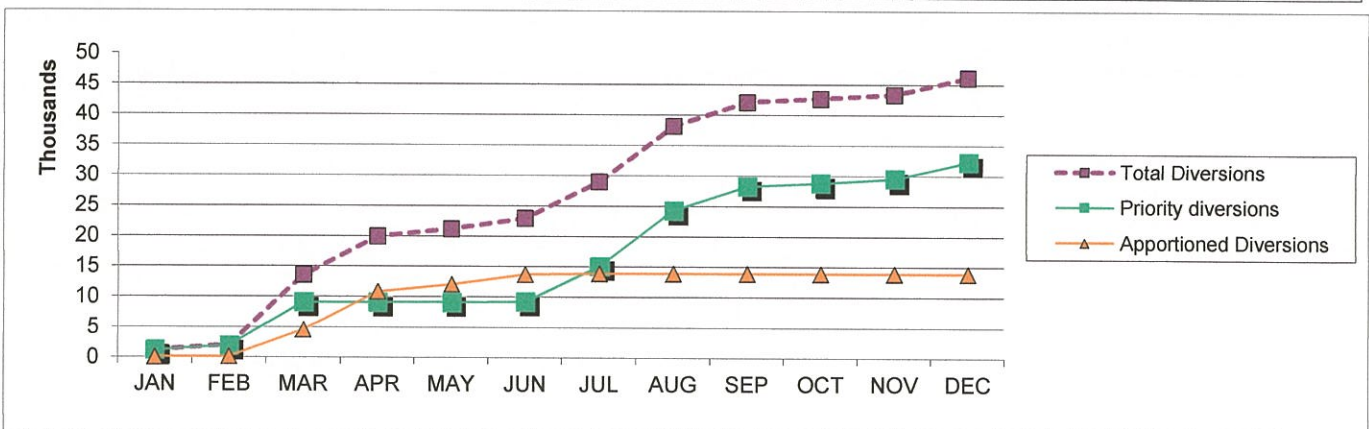
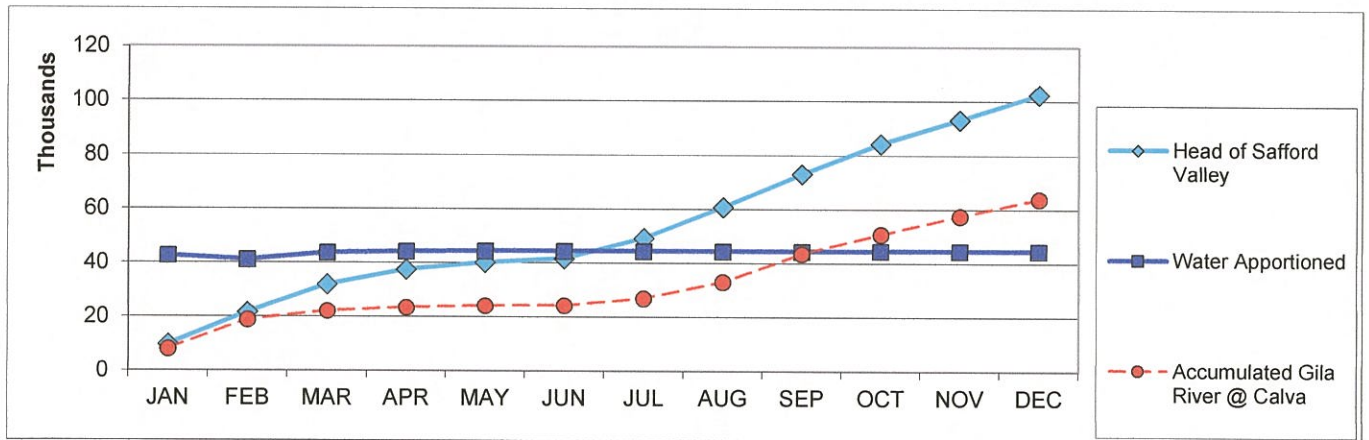


# 2018

## 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	9,753	9,753	1,179	1,148	31	42,657	8,113
FEB	11,933	21,686	2,066	1,938	128	41,053	10,693
MAR	10,334	32,020	13,579	9,032	4,547	43,691	3,355
APR	5,506	37,526	19,941	9,101	10,840	44,127	1,312
MAY	2,588	40,114	21,125	9,101	12,024	44,336	653
JUN	1,515	41,629	22,917	9,204	13,713	44,331	185
JUL	7,674	49,303	28,940	15,062	13,878	44,345	2,714
AUG	11,429	60,732	38,139	24,261	13,878	44,345	6,123
SEP	12,427	73,159	42,130	28,252	13,878	44,345	10,454
OCT	11,221	84,380	42,673	28,795	13,878	44,524	7,203
NOV	8,805	93,185	43,382	29,504	13,878	44,524	6,764
DEC	9,342	102,527	46,131	32,253	13,878	44,524	6,331
Graph:	Gila at Head	Total Diversions	Priority Div's	Apportn'd Div's	Apportionments	Gila Calva	







# 2018

## 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							2.0	2.0		2.0		2.0						
2							2.0	2.0		2.0		2.0						
3							2.0	2.0		2.0		2.0						
4							2.0	2.0		2.0		2.0						
5							2.0	2.0		2.0		2.0						
6							2.0	2.0		2.0		2.0						
7							2.0	2.0		2.0		2.0						
8							2.0		2.0	2.0		2.0						
9							2.0	2.0		0.8		0.8						
10							2.0	2.0										
11							2.0	2.0										
12							2.0		2.0									
13							2.0	2.0										
14							2.0		2.0									
15							2.0		2.0									
16							2.0		2.0									
17							2.0		2.0									
18							2.0		2.0									
19							2.0	2.0										
20							2.0		2.0									
21							2.0		2.0									
22							2.0		2.0									
23							2.0		2.0									
24							2.0		2.0									
25							2.0		2.0									
26				1.4	1.4		2.0		2.0									
27				2.0	2.0		2.0		2.0									
28				2.0	2.0		2.0		2.0									
29							2.0		2.0									
30							2.0		2.0									
31							2.0		2.0									
<b>Total</b>				5.4	5.4		62.0	24.0	38.0	16.8		16.8						
Acre-feet					11			123			33							
Priority Diverted					11			48										
Apport Diverted								75			33							
Apport diverted to date								75			108			108			108	
TBI acreage	161.40			161.40			161.40		161.40	161.40		161.40			161.40		161.40	
Apportioned	344			315			315		315	315		315			315		315	
Duty				0.07			0.76		0.20									

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								1.5	1.5										
6								2.0	2.0										
7				1.3	1.3			2.0	2.0										
8				2.0	2.0			2.0	2.0										
9				2.0	2.0			2.0	2.0										
10				2.0	2.0			2.0	2.0										
11				0.8	0.8			2.0	2.0										
12								2.0	2.0										
13	0.5	0.5		1.2	1.2			2.0	2.0										
14	1.2	1.2		2.0	2.0			2.0	2.0										
15	2.0	2.0		2.0	2.0			2.0	2.0										
16	2.0	2.0		2.0	2.0			2.0	2.0										
17	2.0	2.0		2.0	2.0			0.8	0.8										
18	2.0	2.0		2.0	2.0														
19	2.0	2.0		2.0	2.0														
20	2.0	2.0		2.0	2.0														
21	2.0	2.0		0.8	0.8														
22	2.0	2.0																	
23	0.8	0.8																	
24	1.2	1.2		1.3	1.3														
25	0.8	0.8		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				2.0	2.0														
31				0.8	0.8														
<b>Total</b>	20.5	20.5		38.2	38.2		24.3	24.3											
Acre-feet		41			76			48											332
Priority Diverted		41			76			48											224
Apport Diverted																			108
Apport diverted to date		108			108			108		108		108			108			108	108
TBI acreage	161.40			161.40			161.40		161.40	161.40		161.40		161.40		161.40		161.40	161.40
Apportioned	315			315			315		315	315		315		315		315		315	315
Duty		0.25			0.47			0.30											2.06

2018

**MONTEZUMA CANAL: 4,715.78 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							22.0	22.0		19.3		19.3	9.5		9.5	12.4		12.4
2							24.8	24.8		18.8	1.9	16.9	9.3		9.3	10.3		10.3
3							24.9	24.9		18.6	0.7	17.9	9.3		9.3	9.7		9.7
4							24.9	24.9		18.8		18.8	3.6		3.6	8.9		8.9
5							25.1	25.1		17.8		17.8				7.8		7.8
6							24.9	24.9		17.0		17.0				8.8		8.8
7							24.9	24.9		15.4		15.4				9.6		9.6
8							25.4	17.3	8.1	13.3		13.3				9.0		9.0
9							34.9	34.9		15.8		15.8				6.9		6.9
10							36.5	36.5		15.8		15.8				9.0		9.0
11							38.9	38.4	0.5	15.1		15.1				9.1		9.1
12							39.4	17.3	22.1	14.7		14.7				8.2		8.2
13							31.0	23.9	7.1	13.7		13.7				6.9		6.9
14							25.1	16.8	8.3	13.7		13.7				4.3		4.3
15							25.7	17.3	8.4	13.6	0.7	12.9				5.1		5.1
16							25.2	14.6	10.6	13.3		13.3				9.1		9.1
17							25.3	16.3	9.0	13.6		13.6				11.4		11.4
18							25.1	16.0	9.1	13.0		13.0				11.9		11.9
19							25.2	17.8	7.4	14.6	4.2	10.4				11.7		11.7
20							25.0	16.3	8.7	14.9	4.2	10.7				9.4		9.4
21							25.2	16.0	9.2	13.3		13.3				10.4		10.4
22							25.4	13.6	11.8	13.4	1.9	11.5				8.4		8.4
23							26.3	11.8	14.5	12.4		12.4				4.4		4.4
24							25.4	12.5	12.9	14.5		14.5				5.6		5.6
25							23.9	7.6	16.3	14.8		14.8				5.0		5.0
26				22.2	22.2		21.4	12.7	8.7	14.5		14.5				4.9		4.9
27				27.1	27.1		19.9	9.3	10.6	11.4		11.4				4.5		4.5
28				26.5	26.5		20.7	4.9	15.8	10.3		10.3				3.7	3.7	
29							20.1	1.9	18.2	10.3		10.3				5.0	5.0	
30							19.7		19.7	10.3		10.3	8.1		8.1	5.9	5.9	
31							19.6	4.1	15.5				9.0		9.0			
<b>Total</b>				75.8	75.8		801.8	549.3	252.5	436.0	13.6	422.4	48.8		48.8	237.3	14.6	222.7
Acre-feet					150			1,590				865			97		471	
Priority Diverted					150			1,090				27					29	
Apport Diverted								501				838					442	
Apport diverted to date								501				1,339			1,436		1,878	
TBI acreage	2,937.35			2,940.45			3,164.25			3,214.75		3,236.55			3,236.55		3,236.55	
Apportioned	6,257			5,734			6,170			6,269		6,311			6,311		6,311	
Duty				0.05			0.50			0.27		0.03			0.15		0.15	

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	6.5	6.5		15.6	15.6		15.5	15.5											
2	5.2	5.2		15.9	15.9		17.3	17.3											
3	4.1	4.1		15.9	15.9		15.8	15.8								1.7	1.7		
4	4.5	4.5		16.4	16.4		13.7	13.7								8.4	8.4		
5	4.1	4.1		16.3	16.3		12.2	12.2								9.8	9.8		
6	4.6	4.6		13.2	13.2		16.4	16.4								9.9	9.9		
7	5.5	5.5		16.9	16.9											10.1	10.1		
8	6.5	6.5		20.0	20.0		8.7	8.7								11.1	11.1		
9	6.7	6.7		19.9	19.9		13.3	13.3								10.7	10.7		
10	7.2	7.2		17.8	17.8		13.0	13.0								10.9	10.9		
11	13.9	13.9		16.7	16.7		15.0	15.0								11.2	11.2		
12				18.2	18.2		17.5	17.5								11.2	11.2		
13	16.0	16.0		17.5	17.5		20.1	20.1								2.2	2.2		
14	15.4	15.4		19.6	19.6		19.5	19.5											
15	17.1	17.1		17.9	17.9		17.7	17.7											
16	16.8	16.8		19.2	19.2		18.1	18.1											
17	8.0	8.0		17.3	17.3		17.4	17.4											
18	12.0	12.0		17.3	17.3		16.1	16.1											
19	16.3	16.3		15.8	15.8		9.5	9.5											
20	15.2	15.2		10.9	10.9														
21	21.0	21.0		12.0	12.0														
22	17.3	17.3		17.1	17.1														
23	15.8	15.8		16.9	16.9														
24	14.6	14.6		11.9	11.9														
25	13.5	13.5		26.0	26.0														
26	14.3	14.3		33.0	33.0														
27	15.8	15.8		29.0	29.0														
28	15.2	15.2		26.5	26.5														
29	14.4	14.4		20.8	20.8														
30	13.1	13.1		15.7	15.7														
31	14.5	14.5		15.1	15.1														
<b>Total</b>	355.1	355.1		562.3	562.3		276.8	276.8								97.2	97.2		
Acre-feet		704			1,115			549									193		5,735
Priority Diverted		704			1,115			549									193		3,857
Apport Diverted																			1,878
Apport diverted to date		1,878			1,878			1,878			1,878		1,878				1,878		1,878
TBI acreage	3,236.55			3,236.55			3,236.55			3,236.55		3,236.55				3,236.55			3,236.55
Apportioned	6,311			6,311			6,311			6,311		6,311				6,311			6,311
Duty		0.22			0.34			0.17									0.06		1.77

**2018**

**UNION CANAL: 7,220.84 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							59.6	59.6		46.3		46.3	21.2		21.2	6.3		6.3
2							59.6	59.5	0.1	45.9	2.3	43.6	8.0		8.0	6.9		6.9
3							59.6	58.9	0.7	45.9		45.9				7.7		7.7
4							59.6	59.3	0.3	45.9		45.9				7.7		7.7
5							59.6	48.0	11.6	45.9		45.9				7.7		7.7
6							59.6	48.0	11.6	45.9		45.9				6.4		6.4
7							59.6	58.9	0.7	46.0		46.0				5.5		5.5
8							59.6	42.9	16.7	46.1		46.1				6.9		6.9
9							58.6	48.0	10.6	39.9		39.9				7.7		7.7
10							52.1	48.7	3.4	36.1		36.1				6.1		6.1
11							48.0	48.0		36.1		36.1				5.5		5.5
12							48.0	42.9	5.1	36.1		36.1				5.5		5.5
13							47.6	47.2	0.4	30.1		30.1				5.5		5.5
14							47.3	38.9	8.4	26.1		26.1				5.5		5.5
15							47.3	42.9	4.4	26.1		26.1				5.5		5.5
16							47.3	25.3	22.0	26.1		26.1				5.5		5.5
17							47.3	34.9	12.4	26.1		26.1				6.9		6.9
18							47.3	33.5	13.8	26.1		26.1				7.8		7.8
19							47.3	44.6	2.7	26.1	3.3	22.8				7.8		7.8
20							47.3	34.9	12.4	26.1	3.3	22.8				7.8		7.8
21							47.3	33.5	13.8	26.1		26.1				7.7		7.7
22							47.3	11.8	35.5	23.2	2.3	20.9				7.7		7.7
23							47.3	7.5	39.8	21.2		21.2				7.7		7.7
24							47.3	9.0	38.3	21.2		21.2				5.8		5.8
25							47.3	5.3	42.0	21.2		21.2				5.2		5.2
26				41.0	41.0		46.9	10.9	36.0	21.2		21.2				5.2		5.2
27				59.6	59.0	0.6	46.9	7.4	39.5	21.2		21.2				5.2		5.2
28				59.6	59.6		47.1	4.3	42.8	20.6		20.6				5.2	5.2	
29							47.1	2.2	44.9	19.5		19.5				4.6	4.6	
30							47.1		47.1	19.5		19.5				4.4	4.4	
31							47.1	3.2	43.9				5.9		5.9			
Total				160.2	159.6	0.6	1580.9	1020.0	560.9	943.8	11.2	932.6	35.1		35.1	190.9	14.2	176.7
Acre-feet						318			3,136			1,872		70			379	
Priority Diverted						317			2,023			22					28	
Apport Diverted						1			1,113			1,850		70			350	
Apport diverted to date						1			1,114			2,964		3,034			3,384	
TBI acreage	4,758.90			4,770.00			4,812.60			4,976.80			5,009.90			5,010.50		
Apportioned	10,136			9,302			9,385			9,705			9,769			9,770		
Duty				0.07			0.65			0.38			0.01			0.08		

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	4.4	4.4		46.3	46.3		34.9	34.9											
2	4.4	4.4		46.3	46.3		34.9	34.9											
3	4.4	4.4		46.3	46.3		34.9	34.9											
4	4.4	4.4		46.3	46.3		34.9	34.9											
5	4.4	4.4		46.3	46.3		34.9	34.9											
6	4.4	4.4		46.3	46.3		27.9	27.9											
7	4.4	4.4		48.1	48.1		18.0	18.0											
8	4.4	4.4		49.1	49.1		22.0	22.0											
9	5.1	5.1		49.1	49.1		16.0	16.0											
10	5.5	5.5		47.5	47.5		13.8	13.8											
11	7.9	7.9		42.7	42.7		13.8	13.8											
12	50.4	50.4		44.7	44.7		13.8	13.8											
13	31.6	31.6		48.4	48.4		18.8	18.8											
14	43.1	43.1		49.0	49.0		22.0	22.0											
15	46.4	46.4		49.0	49.0		22.0	22.0											
16	46.4	46.4		49.0	49.0		22.0	22.0											
17	46.4	46.4		49.0	49.0		21.6	21.6											
18	47.2	47.2		49.0	49.0		17.7	17.7											
19	47.8	47.8		47.5	47.5		16.5	16.5											
20	47.8	47.8		46.4	46.4														
21	47.8	47.8		40.6	40.6														
22	47.8	47.8		36.4	36.4														
23	34.4	34.4		36.4	36.4														
24	38.0	38.0		44.3	44.3														
25	34.2	34.2		57.5	57.5														
26	26.2	26.2		62.6	62.6														
27	26.2	26.2		62.6	62.6														
28	26.2	26.2		62.6	62.6														
29	34.2	34.2		52.5	52.5														
30	40.5	40.5		46.4	46.4														
31	44.1	44.1		39.2	39.2														
Total	860.4	860.4		1487.4	1487.4		440.4	440.4											
Acre-feet		1,707			2,950			874											
Priority Diverted		1,707			2,950			874											
Apport Diverted																			
Apport diverted to date		3,384			3,384			3,384		3,384				3,384				3,384	
TBI acreage	5,010.34			5,010.34			5,010.34			5,010.34			5,010.34			5,010.34			5,010.34
Apportioned		9,770			9,770					9,770				9,770				9,770	
Duty		0.34			0.59			0.17											2.26

# 2018

## GRAHAM CANAL: 4,217.68 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							15.3	15.3		17.6		17.6						
2							15.7	15.7		17.0		17.0						
3							15.4	15.4		16.4		16.4						
4							15.0	15.0		16.2		16.2						
5							22.9	22.9		16.1		16.1						
6							25.0	25.0		15.9		15.9						
7							24.4	24.4		14.9		14.9						
8							32.5	11.7	20.8	14.0		14.0						
9							30.2	27.8	2.4	11.1		11.1						
10							26.6	26.6		9.5		9.5						
11							28.9	27.8	1.1	9.4		9.4						
12							27.0	11.7	15.3	9.3		9.3						
13							25.0	21.2	3.8	6.9		6.9						
14							22.8	10.8	12.0	5.3		5.3						
15							22.1	11.7	10.4	5.3		5.3						
16							22.1	5.2	16.9	5.3		5.3						
17							22.1	9.3	12.8	5.2		5.2						
18							22.1	8.8	13.3	5.3		5.3						
19							22.6	14.0	8.6	5.2	0.3	4.9						
20							22.5	9.3	13.2	5.4	0.3	5.1						
21							22.1	8.8	13.3	5.5		5.5						
22							22.2	2.7	19.5	4.5		4.5						
23							22.7	0.9	21.8	3.8		3.8						
24							22.6	1.4	21.2	3.6		3.6						
25							22.2	0.6	21.6	3.6		3.6						
26				7.9	7.9		18.5	1.7	16.8	3.7		3.7						
27				15.7	15.7		18.3	0.7	17.6	3.8		3.8	0.4		0.4			
28				15.3	15.3		19.5	0.5	19.0	3.8		3.8	12.2		12.2			
29							19.5		19.5	2.9		2.9	16.9		16.9			
30							19.5		19.5				12.4		12.4			
31							19.3	0.3	19.0				3.4		3.4			
Total				38.9	38.9		686.6	347.2	339.4	246.5	0.6	245.9	45.3		45.3			
Acre-feet					77			1362				489		90				
Priority Diverted					77			689				1						
Apport Diverted								673				488		90				
Appor diverted to date								673				1161		1251				1251
TBI acreage	3271.85			3281.95			3392.55			3392.55		3392.55		3392.55				3392.55
Apportioned	6969			6400			6615			6615		6615		6615				6615
Duty				0.02			0.40			0.14		0.03						

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				12.1	12.1		9.2	9.2											
2				13.2	13.2		9.6	9.6											
3	0.7	0.7		14.5	14.5		16.4	16.4											
4	0.1	0.1		14.5	14.5		19.6	19.6											
5	0.2	0.2		14.1	14.1		20.1	20.1											
6				14.8	14.8		32.8	32.8											
7				17.8	17.8		42.5	42.5											
8				19.6	19.6		37.7	37.7											
9				19.5	19.5		17.2	17.2											
10				16.7	16.7		10.6	10.6											
11	7.4	7.4		12.8	12.8														
12	20.3	20.3		15.1	15.1										9.1		9.1		
13	13.4	13.4		18.2	18.2										16.5		16.5		
14	11.1	11.1		19.4	19.4										16.5		16.5		
15	13.5	13.5													16.5		16.5		
16	14.0	14.0													16.5		16.5		
17	14.3	14.3													16.6		16.6		
18	15.6	15.6													16.9		16.9		
19	16.0	16.0		16.2	16.2										17.3		17.3		
20	16.1	16.1		14.5	14.5										17.3		17.3		
21	16.9	16.9		12.5	12.5										17.3		17.3		
22	15.6	15.6		9.5	9.5										23.7		23.7		
23	7.2	7.2		9.6	9.6										15.1		15.1		
24	12.1	12.1		16.2	16.2										6.2		6.2		
25	9.9	9.9		20.7	20.7														
26	5.3	5.3		20.8	20.8														
27	5.6	5.6		20.3	20.3														
28	5.4	5.4		19.3	19.3														
29	8.2	8.2		13.3	13.3														
30	11.5	11.5		15.5	15.5														
31	12.8	12.8		11.8	11.8														
Total	253.2	253.2		422.5	422.5		215.7	215.7							205.5		205.5		
Acre-feet		502			838			428									408		4194
Priority Diverted		502			838			428									408		2943
Apport Diverted																			1251
Appor diverted to date		1251			1251			1251			1251		1251				1251		1251
TBI acreage	3395.05			3395.05			3395.05			3395.05		3395.05		3395.05			3395.05		3,395.05
Apportioned	6620			6620			6620			6620		6620		6620			6620		6620
Duty		0.15			0.25			0.13									0.12		1.24

Diversion from North side of Gila River in NW 1/4 NE 1/4, Sec. 9, T. 7S, R. 26E. Water-stage recorder and 8 ft Parshall flume located in SW 1/4 SW 1/4, Sec. 4, T. 7S, R. 26E.

Record Good



# 2018

## SMITHVILLE CANAL: 2,428.63 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							12.2	12.2		7.9		7.9						
2							19.2	19.2		10.3		10.3						
3							17.9	17.9		10.1		10.1						
4							16.9	16.9		12.3		12.3						
5							18.8	18.8		11.5		11.5						
6							23.3	20.4	2.9	8.6		8.6						
7							23.7	23.7		8.0		8.0						
8							20.4	16.4	4.0	7.1		7.1						
9							15.1	15.1										
10							11.5	11.5		3.9		3.9						
11							19.7	19.7		7.1		7.1						
12							15.1	15.1		3.2		3.2						
13							13.7	13.7		0.5		0.5						
14							24.7	15.4	9.3	2.2		2.2						
15							20.1	16.4	3.7	6.9		6.9						
16							18.0	12.4	5.6	11.6		11.6						
17							16.3	15.4	0.9	12.3		12.3						
18							15.7	14.0	1.7	12.6		12.6						
19							17.3	16.4	0.9	12.9		12.9						
20							18.7	15.4	3.3	10.5		10.5						
21							17.7	14.0	3.7	5.0		5.0						
22							16.1	9.2	6.9									
23							16.2		16.2	1.9		1.9						
24							16.2	3.6	12.6	3.5		3.5						
25							14.6		14.6	8.5		8.5						
26							10.2	6.6	3.6	8.1		8.1						
27							17.3		17.3	8.8		8.8						
28							16.7		16.7	12.3		12.3						
29							16.7		16.7	4.6		4.6						
30							13.8		13.8									
31							8.3		8.3									
Total							522.1	359.4	162.7	212.2		212.2						
Acre-feet										1036		421						
Priority Diverted										713								
Apport Diverted										323		421						
Apport diverted to date										323		744		744			744	
TBI acreage		1273.19			1291.39				1986.49		1986.49		1987.69		1987.69		1987.69	
Apportioned		2712			2518				3874		3874		3876		3876		3876	
Duty									0.52		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				15.7	15.7		12.5	12.5											
2				15.4	15.4		17.2	17.2											
3				15.7	15.7		17.1	17.1											
4				15.5	15.5		17.1	17.1											
5				13.0	13.0		15.4	15.4											
6				8.2	8.2		4.3	4.3											
7				9.3	9.3		4.5	4.5											
8				12.4	12.4														
9				7.9	7.9														
10	1.1	1.1		6.0	6.0														
11	6.1	6.1		7.5	7.5														
12	11.6	11.6		13.3	13.3														
13	14.2	14.2		13.8	13.8														
14	14.7	14.7		13.5	13.5														
15	14.4	14.4		4.8	4.8														
16	14.4	14.4		3.1	3.1														
17	14.5	14.5		11.5	11.5														
18	14.8	14.8		11.0	11.0														
19	14.9	14.9		10.8	10.8														
20	14.7	14.7		9.3	9.3														
21	14.1	14.1		12.2	12.2														
22	9.2	9.2		14.5	14.5														
23				14.0	14.0														
24	12.7	12.7		12.8	12.8														
25	10.5	10.5		7.6	7.6														
26	11.6	11.6																	
27	11.1	11.1																	
28	12.3	12.3																	
29	16.4	16.4		1.4	1.4														
30	14.9	14.9		8.2	8.2														
31	14.8	14.8		3.4	3.4														
Total	263.0	263.0		291.8	291.8		88.1	88.1											
Acre-feet										175									2,733
Priority Diverted		522			579					175									1,989
Apport Diverted																			744
Apport diverted to date		744			744					744		744		744			744		744
TBI acreage		1987.69			1987.69				1987.69		1987.69		1987.69		1987.69		1987.69		1,987.69
Apportioned		3876			3876				3876		3876		3876		3876		3876		3876
Duty		0.26			0.29				0.09										1.37

Diversion from South side of Gila River in NE 1/4 NW 1/4, Sec. 1, T. 7S, R. 25E. Water-stage recorder and 8 ft Parshall flume located in NW 1/4 SW 1/4, Sec. 36, T 6S, R. 25E, which measures combined flow of Smithville and Dodge-Nevada Canals.  
Segregation

Record Good

# 2018

## 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							15.8	15.8		12.5		12.5						
2	14.5	14.5					25.3	22.3	3.0	12.5		12.5						
3	19.7	19.7					25.3	14.3	11.0	12.5		12.5						
4	19.7	19.7					25.3	19.5	5.8	12.5		12.5						
5	19.7	19.7					25.3	12.7	12.6	12.5		12.5						
6	19.7	19.7					24.7	12.7	12.0	12.5		12.5						
7	18.9	18.9					23.4	14.3	9.1	12.5		12.5						
8	18.7	18.7					22.6	10.8	11.8	12.5		12.5						
9	19.8	19.8					17.4	12.7	4.7	7.9		7.9						
10	20.2	20.2					8.2	8.2		12.5		12.5						
11	20.3	20.3					9.9	9.9		12.5		12.5						
12	20.1	20.1					11.8	10.8	1.0	12.5		12.5						
13	20.1	20.1					9.4	9.4		12.5		12.5						
14	19.8	19.8					10.3	9.8	0.5	12.5		12.5						
15	19.7	19.7					12.9	10.8	2.1	8.6		8.6						
16	19.7	19.7					12.5	6.3	6.2	6.3		6.3						
17	20.1	20.1					12.5	8.9	3.6	6.3		6.3						
18	20.6	20.6					12.5	8.0	4.5	6.3		6.3						
19	20.6	20.6					12.5	11.3	1.2	6.3		6.3						
20	20.6	20.6					12.5	8.9	3.6	6.3		6.3						
21	20.6	20.6					12.5	8.0	4.5	6.3		6.3						
22	15.9	15.9					12.5	3.5	9.0	5.5		5.5						
23							12.5	1.0	11.5	6.3		6.3						
24							12.5	1.5	11.0	4.8		4.8						
25							12.5	0.7	11.8	3.7		3.7						
26							12.5	2.6	9.9	3.7		3.7						
27							12.5	0.8	11.7	3.7		3.7						
28							12.5		12.5	3.7		3.7						
29							12.5		12.5	4.3		4.3						
30							12.5		12.5	2.2		2.2						
31							12.5		12.5									
<b>Total</b>	<b>409.0</b>	<b>409.0</b>					<b>467.6</b>	<b>255.5</b>	<b>212.1</b>	<b>254.7</b>		<b>254.7</b>						
Acre-feet		811							927		505							
Priority Diverted		811							507									
Apport Diverted									421		505							
Appor diverted to date									421		926		926				926	
TBI acreage		2,022.70			2,022.70			2,023.50		2,029.80		2,027.10		2,023.90				
Apportioned		4,308			3,944			3,946		3,958		3,953		3,947				
Duty		0.40						0.46		0.25								

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				11.3	11.3		10.6	10.6											
2				11.3	11.3		8.9	8.9											
3				11.3	11.3		8.5	8.5											
4				11.3	11.3		8.5	8.5											
5				11.3	11.3		12.6	12.6											
6				11.3	11.3		15.0	15.0											
7				11.4	11.4		5.9	5.9											
8				11.8	11.8														
9				11.8	11.8														
10	1.1	1.1		11.8	11.8														
11	2.8	2.8		9.9	9.9														
12	11.7	11.7		5.6	5.6														
13	15.0	15.0		9.0	9.0														
14	13.6	13.6		11.8	11.8														
15	10.6	10.6		11.8	11.8														
16	10.6	10.6		11.8	11.8														
17	10.6	10.6		11.8	11.8														
18	11.1	11.1		11.8	11.8														
19	11.6	11.6		11.8	11.8														
20	11.6	11.6		8.6	8.6														
21	11.6	11.6		5.5	5.5														
22	10.8	10.8		8.8	8.8														
23	11.5	11.5		8.8	8.8														
24	9.7	9.7		8.8	8.8														
25	9.6	9.6		10.1	10.1														
26	6.3	6.3		11.7	11.7														
27	6.3	6.3		11.5	11.5														
28	6.3	6.3		11.4	11.4														
29	7.1	7.1		12.0	12.0														
30	9.8	9.8		12.0	12.0														
31	10.1	10.1		12.0	12.0														
<b>Total</b>	<b>209.4</b>	<b>209.4</b>		<b>331.1</b>	<b>331.1</b>		<b>70.0</b>	<b>70.0</b>											
Acre-feet		415			657			139											3,455
Priority Diverted		415			657			139											2,529
Apport Diverted																			926
Appor diverted to date					926			926		926		926		926					926
TBI acreage		2,023.90			2,023.90			2,023.90		2,115.79		2,115.79		2,115.79					2,115.79
Apportioned		3,947			3,947			3,947		4,126		4,126		4,126					4,126
Duty		0.21			0.32			0.07											1.63





# 2018

## 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																				
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																				

Diversions from North side of Gila River in SE 1/4 SW 1/4, Sec. 26, T. 4S, R. 23E. Water-stage recorder and 2 ft Parshall flume located in SE 1/4 SW 1/4, Sec. 26, T. 4S, R. 23E.  
Record Good

# 2018

**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																								
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 Diverted to date																								
TBI Acreage Duty									272.5	35.2	166.3	71.0	272.5	35.2	166.3	71.0	272.5	35.2	166.3	71.0	272.5	35.2	166.3	71.0

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																									
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 Diverted to date																									
TBI Acreage Duty	272.5	35.2	166.3	71.0	272.5	35.2	166.3	71.0	207.9	35.2	101.7	71.0													

# 2018

## 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	9.5	11.3	11.5	11.9	14.4	17.7	17.4	13.2	15.9	12.1	16.6	10.5
2	12.5	10.0	8.5	11.4	5.7	18.5	14.8	15.4	15.6	5.7	16.7	9.7
3	15.9	8.6	9.9	12.6	13.2	18.0	14.7	15.5	14.8	6.1	16.8	11.6
4	10.0	9.9	8.4	11.7	16.8	13.2	16.6	14.1	12.9	10.8	14.9	13.9
5	12.8	10.4	11.5	11.5	12.5	13.9	15.2	14.7	14.1	6.9	15.4	12.5
6	12.2	14.1	11.5	11.9	11.9	14.2	15.0	14.8	15.4	7.2	15.6	13.4
7	12.3	12.5	12.0	12.5	14.6	10.4	17.3	15.2	15.0	4.3	15.5	10.8
8	13.8	13.7	13.4	13.7	12.0	17.1	17.4	15.3	14.9	1.8	13.9	8.9
9	13.8	14.3	13.9	13.6	13.4	18.3	17.6	14.9	15.3	11.7	12.2	10.0
10	13.3	9.3	7.6	15.5	17.6	18.0	16.8	16.3	15.2	7.4	11.9	11.9
11	16.8	8.5	9.8	14.6	12.7	18.1	17.3	12.9	15.4	11.1	13.7	10.9
12	8.0	8.9	13.7	12.7	11.7	18.2	14.0	12.6	15.3	14.0	14.0	10.2
13	8.0	9.6	14.1	16.1	15.8	18.4	14.1	14.1	16.0	11.6	12.1	11.9
14	7.8	13.8	10.9	20.4	16.6	16.5	14.4	13.5	16.2	14.5	11.4	12.6
15	8.4	14.2	9.9	19.4	9.7	9.5	13.6	13.8	16.3	11.8	12.7	13.1
16	7.7	14.5	12.3	17.0	9.8	11.6	15.5	14.9	14.5	9.6	12.5	13.6
17	9.9	8.8	13.7	11.8	11.7	12.6	15.6	13.9	9.7	10.5	12.3	13.2
18	10.4	7.8	10.9	12.7	17.0	13.6	16.1	15.9	9.8	11.3	12.1	7.5
19	12.9	9.4	10.6	13.7	17.4	17.2	16.2	14.7	3.6	13.3	12.5	7.5
20	10.0	9.3	10.3	16.7	16.6	19.2	16.5	14.5	2.6	12.5	10.6	10.7
21	13.0	7.3	10.4	14.6	17.3	18.5	15.8	12.7	4.2	15.8	13.2	14.0
22	11.3	12.1	11.9	15.1	18.6	18.9	14.7	11.6	8.1	17.6	14.1	15.9
23	10.2	9.6	17.9	12.8	18.0	18.7	16.1	15.0	3.0	10.0	14.9	11.0
24	11.8	8.5	15.0	14.2	17.1	18.9	16.0	14.7	7.5	8.6	14.1	11.1
25	11.8	8.9	14.4	16.7	17.5	17.9	15.7	14.1	10.0	12.6	15.2	9.5
26	11.5	11.7	15.8	13.0	16.5	14.2	15.7	12.4	7.4	14.3	14.2	12.0
27	10.6	12.4	3.7	14.0	16.9	17.7	16.0	13.4	6.4	13.8	15.0	12.2
28	11.5	14.6	4.7	14.0	14.6	16.0	11.8	15.0	9.6	14.0	15.2	15.0
29	11.4		9.3	16.4	16.2	17.4	14.5	15.3	14.9	13.9	14.9	15.8
30	11.2		9.0	17.7	16.1	17.4	15.0	15.6	5.4	15.0	13.5	15.8
31	11.2		11.1		18.7		13.9	16.4		16.7		16.1
<b>Total CFS</b>	351.5	304.0	347.6	429.9	458.6	489.8	481.3	446.4	345.0	346.5	417.7	372.8
<b>Total Acre-Feet</b>	697	603	689	853	910	972	955	885	684	687	829	739
<b><u>ASARCO Reported Ac-ft.</u></b>												
<b>Reported</b>	698	603	689	852	910	973	955	886	684	687	828	739
<b>Reported Year-to-Date</b>	698	1,301	1,990	2,842	3,752	4,725	5,680	6,566	7,250	7,937	8,765	9,504
<b><u>Tabulations in Ac-ft</u></b>												
Allocation diverted	697	603	689	853	910	972	955	885	684	687	829	739
Previous Alloc. Div		697	1,300	1,989	2,842	3,752	4,724	5,679	6,564	7,248	7,935	8,764
Alloc. Div to date	697	1,300	1,989	2,842	3,752	4,724	5,679	6,564	7,248	7,935	8,764	9,503
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	15,524	14,921	14,232	13,379	12,469	11,497	10,542	9,657	8,973	8,286	7,457	6,718

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



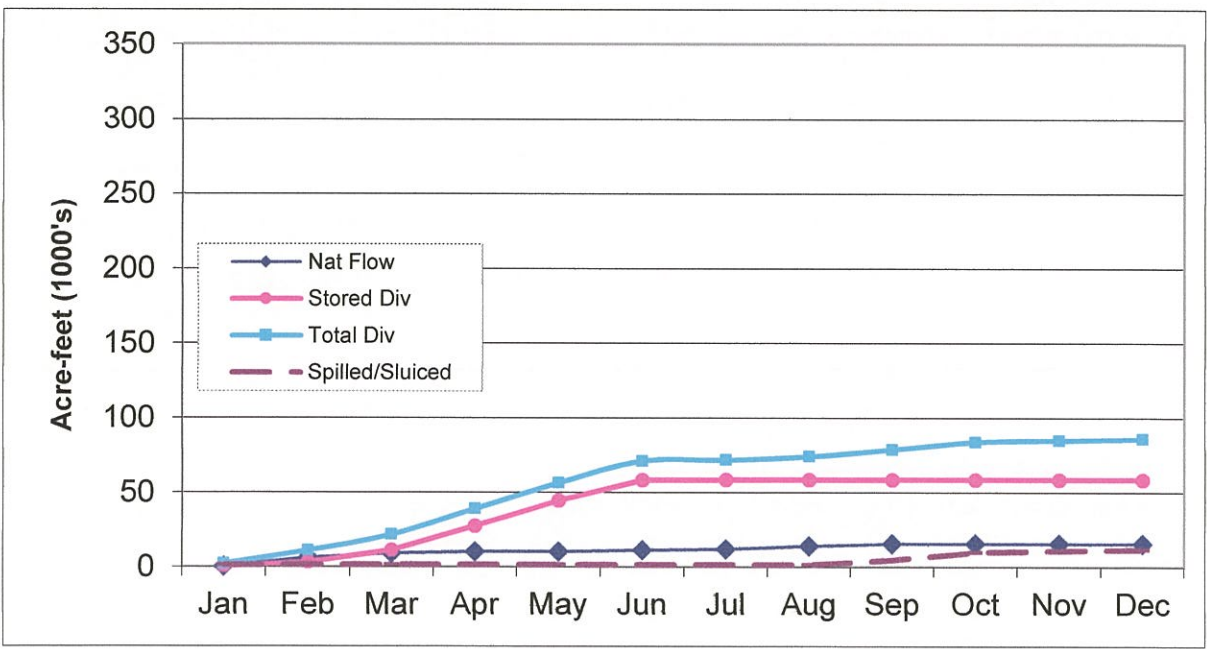


# 2018

## 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	422	488	910	2,100	1,190
Feb	6,184	3,293	9,477	10,905	1,428
Mar	9,097	11,074	20,171	21,603	1,432
Apr	10,161	27,374	37,535	38,967	1,432
May	10,306	44,537	54,843	56,275	1,432
Jun	11,185	58,227	69,412	70,844	1,432
Jul	11,822	58,298	70,120	71,552	1,432
Aug	14,098	58,411	72,509	73,941	1,432
Sep	15,475	58,469	73,944	78,599	4,655
Oct	15,475	58,469	73,944	83,651	9,707
Nov	15,475	58,469	73,944	84,782	10,838
Dec	15,475	58,469	73,944	85,694	11,750
Graph:	Nat Flow Div	Stored Div		Total Div	Spill/Sluice



# 2018

## 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

2018	Diverted		Passing Dam	
	Total	Natural Flow	Spill	Sluice
1			30	
2			30	
3			30	
4			30	
5			30	
6			60	
7			40	
8			30	
9			30	
10			30	
11			25	
12			25	
13			25	
14			15	
15			15	
16			15	
17			15	
18			10	
19			10	
20			30	
21			20	
22			10	
23			10	
24			10	
25			10	
26			10	
27				
28	11	11		
29	107	47	60	
30	149	83	66	
31	192	105	87	
Total	459	246	213	600
Ac-Ft	910	488	422	1190
To Date	910	488	422	1190
Duty	0.05			

### FEBRUARY

T. B. I. 32,960.75 Acres

	Diverted		Passing Dam	
	Total	Natural Flow	Spill	Sluice
	200	114	86	10
	225	122	103	10
	212	111	101	10
	222	117	105	10
	225	118	107	10
	226	119	107	
	228	115	113	
	228	114	114	
	221	95	126	
	204	84	120	
	204	85	119	
	204	87	117	
	196	68	128	10
	171	39	132	10
	170	26	144	10
	156	156	10	
	98	98	5	
	85	85	5	
	81	81	5	
	78	78	5	
	75	75	5	
	75	75	5	
	74	74		
	73	73		
	94	94		
	97	97		
	98	98		
	100	100		
	4319	1414	2905	120
	8567	2805	5762	238
	9477	3293	6184	1428
	0.26			

### MARCH

T. B. I. 36,917.01 Acres

	Diverted		Passing Dam	
	Total	Natural Flow	Spill	Sluice
	99	99		
	99	99		
	98	98		
	97	6	91	
	97	14	83	
	97	22	75	
	97	31	66	
	100	40	60	
	98	42	56	
	97	37	60	
	108	78	30	
	144	99	45	
	151	105	46	
	153	102	51	
	154	102	52	
	152	104	48	
	153	106	47	
	153	107	46	2
	157	108	49	
	157	109	48	
	172	169	3	
	240	225	15	
	254	240	14	
	271	250	21	
	275	250	25	
	276	251	25	
	277	251	26	
	279	253	26	
	290	269	21	
	298	277	21	
	299	276	23	
	5392	3923	1469	2
	10694	7781	2913	4
	20171	11074	9097	1432
	0.48			

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...

# 2018

## 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

2018	Diverted		Passing Dam	
	Total	Stored	Natural Flow	Spill Sluice
1	300	275	25	
2	300	278	22	
3	299	276	23	
4	299	275	24	
5	300	279	21	
6	300	278	22	
7	299	276	23	
8	299	276	23	
9	298	277	21	
10	297	279	18	
11	297	278	19	
12	293	276	17	
13	294	278	16	
14	301	277	24	
15	320	307	13	
16	337	326	11	
17	308	274	34	
18	268	244	24	
19	265	244	21	
20	263	245	18	
21	263	244	19	
22	266	253	13	
23	291	280	11	
24	293	279	14	
25	291	279	12	
26	292	281	11	
27	288	273	15	
28	281	270	11	
29	277	270	7	
30	275	271	4	
31				
<b>Total</b>	8754	8218	536	
<b>Ac-Ft To Date</b>	17364	16300	1064	1432
<b>Duty</b>	37535	27374	10161	
	0.88			

MAY

T. B. I. 39,713.15 Acres

	Diverted		Passing Dam	
	Total	Stored	Natural Flow	Spill Sluice
	282	271	11	
	284	273	11	
	281	274	7	
	279	271	8	
	270	251	19	
	243	236	7	
	241	236	5	
	240	237	3	
	239	237	2	
	237	237		
	235	235		
	230	230		
	240	240		
	256	256		
	257	257		
	274	274		
	299	299		
	300	300		
	301	301		
	302	302		
	302	302		
	300	300		
	301	301		
	307	307		
	319	319		
	320	320		
	321	321		
	322	322		
	320	320		
	315	315		
	309	309		
<b>Total</b>	8726	8653	73	
<b>Ac-Ft To Date</b>	17308	17163	145	1432
<b>Duty</b>	54843	44537	10306	
	1.51			

JUNE

T. B. I. 39,548.14 Acres

	Diverted		Passing Dam	
	Total	Stored	Natural Flow	Spill Sluice
	310	310		
	310	310		
	309	309		
	308	308		
	307	307		
	307	307		
	316	316		
	329	329		
	337	337		
	362	362		
	363	363		
	363	363		
	363	363		
	363	363		
	362	362		
	384	383	1	
	397	385	12	
	385	383	2	
	379	379		
	354	280	74	
	149	78	71	
	88	5	83	
	51		51	
	37		37	
	29		29	
	23		23	
	18		18	
	15		15	
	14		14	
	13		13	
<b>Total</b>	7345	6902	443	
<b>Ac-Ft To Date</b>	14569	13690	879	1432
<b>Duty</b>	69412	58227	11185	
	1.91			

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

# 2018

## 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

**AUGUST**

T. B. I. 39,598.14 Acres

**SEPTEMBER**

T. B. I. 38,055.74 Acres

2018	Diverted			Passing Dam	
	Total	Stored	Natural Flow	Spill	Sluice
1	13		13		
2	12		12		
3	12		12		
4	11		11		
5	11		11		
6	11		11		
7	10		10		
8	8		8		
9	7		7		
10	7		7		
11	7		7		
12	7		7		
13	6		6		
14	6		6		
15	5		5		
16	5		5		
17	12		12		
18	11		11		
19	11		11		
20	11		11		
21	11		11		
22	10		10		
23	10		10		
24	9		9		
25	9		9		
26	8		8		
27	8	8			
28	8	8			
29	9	9			
30	68	11	57		
31	25		25		
<b>Total</b>	357	36	321		
<b>Ac-Ft</b>	708	71	637		
<b>To Date Duty</b>	70120	58298	11822	1432	

	Diverted			Passing Dam	
	Total	Stored	Natural Flow	Spill	Sluice
	44		44		
	47		47		
	19		19		
	3		3		
	91	24	67		
	87		87		
	45		45		
	73		73		
	54		54		
	108		108		
	33		33		
	32		32		
	38		38		
	38		38		
	21		21		
	15		15		
	14		14		
	21		21		
	39		39		
	48		48		
	78		78		
	63		63		
	98		98		
	24		24		
	21		21		
	17		17		
	9	9	0		
	26	24	2		
<b>Total</b>	1205	57	1148		
<b>Ac-Ft</b>	2389	113	2276		
<b>To Date Duty</b>	72509	58411	14098	1432	

	Diverted		Natural Flow	Passing Dam	
	Total	Stored		Spill	Sluice
	28	28			
	94		94		
	287		287	400	
	119		119	20	
	76		76		
	20		20		
	10		10		
	7		7		
	4		4		
	2		2		
	18		18		
	31		31		
	18		18		
	2		2		
	1		1	10	
	1		1	5	
	0		0		
	0		0		
	0		0		
	0		0	1000	
	0		0	25	
	0		0	20	
	0		0	10	
	0		0	15	
	1		1	25	
	1	1		25	
	1	1		25	
	1		1	15	
	1		1	5	
<b>Total</b>	724	29	694	1625	
<b>Ac-Ft</b>	1435	58	1377	3223	
<b>To Date Duty</b>	73944	58469	15475	4655	

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

# 2018

## 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

2018	Diverted		Passing Dam		Diverted		Passing Dam		Diverted		Passing Dam				
	Total	Stored	Natural Flow	Spilled	Sluice	Total	Stored	Natural Flow	Spilled	Sluice	Total	Stored	Natural Flow	Spilled	Sluice
1			5												
2			20												
3			5												
4															
5															
6			10												
7			10												
8			10												
9			10												
10			5												
11			5												
12			2												
13			5												
14			50												
15			1000												
16			200												
17			200												
18			100												
19			100												
20			80												
21			80												
22			35												
23			40												
24			50												
25			45												
26			290												
27			75												
28			45												
29			20												
30			30												
31			20												
<b>Total</b>			2547												
<b>Ac-Ft To Date</b>	73944	58469	15475			73944	58469	15475			73944	58469	15475		
<b>Duty</b>	3.74		9707			3.74		10838			3.74		11750		

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

# DETERMINATION OF PRIORITY WATER

## JANUARY 2018

Mean daily discharge - cubic feet per second

2018	SAN CARLOS RESERVOIR				ASHURST-HAYDEN DAM				DAILY CALL SYSTEM				Version 7.08				
	RELEASES		STORAGE		ASHURST-HAYDEN DAM		COMPUTED PRIORITY YEAR		COMPUTED PRIORITY YEAR		COMPUTED PRIORITY YEAR						
	River Inflow	Total	Natural Flow	Stored	Inflow Minus Outflow	Ac-ft change S C Res.	Sluiced and/or Spilled	Diverted	Stored	Natural Flow	Gain/Loss Nat. Flow	Nat. Flow Available to Project		JAN	Duncan Virden	Safford	Winkelman
DEC 31	144	144	181		144	181	30				30	174	1	1924	1924	1924	1924
JAN 1	145	145	363		145	363	30				30	175	2	"	"	"	"
JAN 2	143	143	327		143	327	30				30	173	3	"	"	"	"
JAN 3	132	42	90	42	90	110	30				-12	120	4	"	"	"	"
JAN 4	130	42	88	42	88	328	30				-12	118	5	"	"	"	"
JAN 5	132	132	256		132	256	60				60	192	6	"	"	"	"
JAN 6	132	132	256		132	256	40				40	172	7	"	"	"	"
JAN 7	130	130	293		130	293	30				30	160	8	"	"	"	"
JAN 8	129	129	146		129	146	30				30	159	9	"	"	"	"
JAN 9	129	42	87	42	87	221	30				-12	117	10	"	"	"	"
JAN 10	126	37	89	37	89	331	25				-12	114	11	"	"	"	"
JAN 11	125	125	220		125	220	25				25	150	12	"	"	"	"
JAN 12	125	125	148		125	148	25				25	150	13	"	"	"	"
JAN 13	124	124	148		124	148	20				20	140	14	"	"	"	"
JAN 14	125	125	295		125	295	15				15	140	15	"	"	"	"
JAN 15	126	126	296		126	296	15				15	141	16	"	"	"	"
JAN 16	119	119	185		119	185	15				15	134	17	"	"	"	"
JAN 17	125	30	95	30	95	222	10				-20	105	18	"	"	"	"
JAN 18	130	45	85	45	85	111	10				-35	95	19	"	"	"	"
JAN 19	129	129	186		129	186	30				30	159	20	"	"	"	"
JAN 20	130	130	223		130	223	20				20	150	21	"	"	"	"
JAN 21	130	130	260		130	260	10				10	140	22	"	"	"	"
JAN 22	133	133	186		133	186	10				10	143	23	"	"	"	"
JAN 23	135	135	261		135	261	10				10	145	24	"	"	"	"
JAN 24	141	141	336		141	336	10				10	151	25	"	"	"	"
JAN 25	142	142	113		142	113	10				10	152	26	"	"	"	"
JAN 26	141	68	73	68	73	149	10				-68	73	27	"	"	"	"
JAN 27	140	174	34	140	34	-112	11	11			-140	28	28	"	"	"	"
JAN 28	139	192	53	139	53	-75	107	47	60		-79	60	29	Immem			
JAN 29	137	231	94	137	94	-299	149	83	66		-71	66	30	Immem	Immem		
JAN 30	134	253	134	119	-119	-298	192	105	87		-47	87	31	Immem	1892		
JAN 31	132	262	130	130	-130	-186											

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

12% transit loss on daily Stored releases...

# DETERMINATION OF PRIORITY WATER

## FEBRUARY 2018

Mean daily discharge - cubic feet per second

		SAN CARLOS RESERVOIR				ASHURST-HAYDEN DAM				DAILY CALL SYSTEM				COMPUTED PRIORITY YEAR		VERSION 7.08	
		RELEASES		STORAGE		Sluiced and/or Spilled		Natural Flow		Gain/Loss Nat. Flow		Nat. Flow Available to Project		Duncan Virden		Safford Winkelman	
2018	River Inflow	Total	Natural Flow	Stored	Inflow Minus Outflow	Ac-ft change S C Res.	FEB	Diverted	Stored	Natural Flow	Nat. Flow	Gain/Loss Nat. Flow	Nat. Flow Available to Project	FEB	Duncan Virden	Safford Winkelman	Ashurst-Hayden
JAN 31	132	262	132	130	-130	-186	1	10	114	86	-36	96	1	1868	1845	1845	1845
FEB 1	130	269	130	139	-139	-372	2	10	225	103	-17	113	2	1911	1868	1892	1892
2	129	255	129	126	-126	-372	3	10	212	101	-18	111	3	1845	1911	1845	1845
3	128	261	128	133	-133	-333	4	10	222	105	-13	115	4	1884	1845	1868	1868
4	127	261	127	134	-134	-185	5	10	225	107	-10	117	5	1880	1884	1911	1911
5	126	261	126	135	-135	-259	6	10	226	107	-19	107	6	"	1880	1845	1845
6	129	260	129	131	-131	-480	7	228	115	113	-16	113	7	1890	"	1884	1884
7	130	260	130	130	-130	-257	8	228	114	114	-16	114	8	1888	1890	1880	1880
8	131	239	131	108	-108	-221	9	221	95	126	-5	126	9	1880	1888	"	"
9	131	227	131	96	-96	-294	10	204	84	120	-11	120	10	1884	1880	1890	1890
10	130	227	130	97	-97	-183	11	204	85	119	-11	119	11	1912	1884	1888	1888
11	128	227	128	99	-99	-293	12	204	87	117	-11	117	12	1900	1912	1880	1880
12	126	203	126	77	-77	-183	13	10	196	128	12	138	13	1915	1900	1884	1884
13	125	169	125	44	-44	-183	14	10	171	132	17	142	14	1908	1915	1912	1912
14	130	159	130	29	-29	37	15	10	170	144	24	154	15	1924	1908	1900	1900
15	140	99	99	41	41	402	16	10	156	156	67	207	16	"	1924	1915	1915
16	260	69	69	191	191	220	17	5	98	98	34	294	17	"	"	1908	1908
17	231	71	71	160	160	330	18	5	85	85	19	250	18	"	"	1924	1924
18	224	72	72	152	152	441	19	5	81	81	14	238	19	"	"	"	"
19	216	72	72	144	144	184	20	5	78	78	11	227	20	"	"	"	"
20	278	72	72	206	206	517	21	5	75	75	8	286	21	"	"	"	"
21	296	73	73	223	223	296	22	5	75	75	7	303	22	"	"	"	"
22	333	72	72	261	261	407	23	74	74	74	2	335	23	"	"	"	"
23	352	93	93	259	259	446	24	73	73	73	-19	333	24	"	"	"	"
24	314	106	106	208	208	446	25	94	94	94	-13	302	25	1915	"	"	"
25	285	106	106	179	179	373	26	97	97	97	-9	276	26	"	1915	"	"
26	263	107	107	156	156	337	27	98	98	98	-9	254	27	1924	"	"	"
27	214	107	107	107	107	262	28	100	100	100	-7	207	28	"	1924	1915	1915
28	185	107	107	78	78	112											

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

12% transit loss on daily Stored releases...

# DETERMINATION OF PRIORITY WATER

## MARCH 2018

Mean daily discharge - cubic feet per second

2018 FEB 29 MAR	SAN CARLOS RESERVOIR				ASHURST-HAYDEN DAM				DAILY CALL SYSTEM				VERSION 7.08 COMPUTED PRIORITY YEAR
	River Inflow	RELEASES		STORAGE		Sluiced and/or Spilled	ASHURST-HAYDEN DAM		Duncan Viriden	Safford	Winkelman	Ashurst- Hayden	
		Total	Natural Flow	Stored	Inflow Minus Outflow		Ac-ft change S C Res.	Diverted					
1	185	107	107	78	112	1	99	99	99	1915	1924	1915	1915
2	163	107	107	56	225	2	99	99	99	1912	1915	1924	1924
3	121	107	107	14	37	3	98	98	98	1913	1912	1924	1924
4	100	107	100	-7		4	97	6	91	1904b	1913	1915	1915
5	91	107	91	-16	-225	5	97	14	83	"	1904b	1912	1912
6	82	107	82	-25		6	97	22	75	1912	"	1913	1913
7	72	107	72	-35	-37	7	97	31	66	1890	1912	1904b	1904b
8	62	107	62	-45	-112	8	100	31	60	1904b	1890	"	"
9	59	107	59	-48	-75	9	98	42	56	1906	1904b	1912	1912
10	66	108	66	-42	-150	10	97	37	60	1904b	1906	1890	1890
11	60	149	60	-89	-262	11	108	78	30	1890	1904b	1904b	1904b
12	57	169	57	-112	-224	12	144	99	45	1899	1890	1906	1906
13	53	172	53	-119	-223	13	151	105	46	1889	1899	1904b	1904b
14	56	172	56	-116	-224	14	153	102	51	1890	1899	1890	1890
15	56	172	56	-116	-335	15	154	102	52	1885	1890	1899	1899
16	55	173	55	-118	-408	16	152	104	48	1888	1885	1889	1889
17	51	172	51	-121	-333	17	153	106	47	1887	1888	1890	1890
18	50	172	50	-122	-185	18	153	107	46	1891	1887	1885	1885
19	50	173	50	-123	-296	19	157	108	49	1888	1891	1888	1888
20	49	173	49	-124	-332	20	157	109	48	1887	1888	1887	1887
21	36	228	36	-192	-294	21	172	169	3	1882	1887	1891	1891
22	32	288	32	-256	-625	22	240	225	15	1879	1882	1888	1888
23	32	305	32	-273	-512	23	254	240	14	1880	1879	1887	1887
24	32	316	32	-284	-584	24	271	250	21	1877	1880	1882	1882
25	32	316	32	-284	-764	25	275	250	25	1881	1877	1879	1879
26	31	316	31	-285	-544	26	276	251	25	1878	1881	1880	1880
27	31	316	31	-285	-722	27	277	251	26	1876	1887	1887	1887
28	32	320	32	-288	-540	28	279	253	26	1874	1876	1881	1881
29	32	338	32	-306	-717	29	290	269	21	1846	1874	1878	1878
30	30	345	30	-315	-786	30	298	277	21	1875	1846	1876	1876
31	30	344	30	-314	-534	31	299	276	23	1869	1875	1874	1874
31	31	344	31	-313	-708								

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

12% transit loss on daily Stored releases...



# DETERMINATION OF PRIORITY WATER

## APRIL 2018

Mean daily discharge - cubic feet per second

2018	SAN CARLOS RESERVOIR				ASHURST-HAYDEN DAM				DAILY CALL SYSTEM				VERSION 7.08			
	River Inflow	RELEASES		STORAGE	Sluiced and/or Spilled	ASHSURST-HAYDEN DAM		Gain/Loss Nat. Flow	Nat. Flow Available to Project	COMPUTED PRIORITY YEAR						
		Total	Natural Flow	Stored		Ac-ft change Res. S C	Diverted			Stored	Natural Flow	APR		Duncan Virden	Safford	Winkelman
MAR 31	31	344	31	313	-313	-708	1	300	275	25	-6	25	1874	1869	1846	1846
APR 1	29	345	29	316	-316	-669	2	300	278	22	-7	22	1873	1874	1875	1875
2	30	344	30	314	-314	-700	3	299	276	23	-7	23	1869	1873	1869	1869
3	31	344	31	313	-313	-659	4	299	275	24	-7	24	Immem	1869	1874	1874
4	27	344	27	317	-317	-690	5	300	279	21	-6	21	"	Immem	1873	1873
5	27	343	27	316	-316	-651	6	300	278	22	-5	22	1868	"	1869	1869
6	28	342	28	314	-314	-646	7	299	276	23	-5	23	"	1868	Immem	Immem
7	28	342	28	314	-314	-608	8	299	276	23	-5	23	1846	"	"	"
8	25	340	25	315	-315	-738	9	298	277	21	-4	21	"	1846	1868	1868
9	23	340	23	317	-317	-665	10	297	279	18	-5	18	Immem	"	"	"
10	23	339	23	316	-316	-694	11	297	278	19	-4	19	"	Immem	1846	1846
11	23	337	23	314	-314	-590	12	293	276	17	-6	17	"	"	"	"
12	21	337	21	316	-316	-878	13	294	278	16	-5	16	"	"	Immem	Immem
13	21	336	21	315	-315	-676	14	301	277	24	3	24	1873	"	"	"
14	22	371	22	349	-349	-799	15	320	307	13	-9	13	Immem	1873	"	"
15	22	392	22	370	-370	-664	16	337	326	11	-11	11	"	Immem	"	"
16	21	332	21	311	-311	-691	17	308	274	34	13	34	1868	"	1873	1873
17	21	298	21	277	-277	-622	18	268	244	24	3	24	1875	1868	Immem	Immem
18	21	298	21	277	-277	-618	19	265	244	21	"	21	"	1875	"	"
19	20	298	20	278	-278	-704	20	263	245	18	-2	18	1869	"	1868	1868
20	19	296	19	277	-277	-607	21	263	244	19	"	19	1874	1869	1875	1875
21	20	308	20	288	-288	-602	22	266	253	13	-7	13	Immem	1874	"	"
22	21	339	21	318	-318	-627	23	291	280	11	-10	11	"	Immem	1869	1869
23	21	338	21	317	-317	-709	24	293	279	14	-7	14	"	"	1874	1874
24	21	338	21	317	-317	-616	25	291	279	12	-9	12	"	"	Immem	Immem
25	19	338	19	319	-319	-667	26	292	281	11	-8	11	"	"	"	"
26	19	329	19	310	-310	-662	27	288	273	15	-4	15	"	"	"	"
27	18	325	18	307	-307	-683	28	281	270	11	-7	11	"	"	"	"
28	17	324	17	307	-307	-705	29	277	270	7	-10	7	"	"	"	"
29	16	324	16	308	-308	-641	30	275	271	4	-12	4	"	"	"	"
30	16	324	16	308	-308	-663										

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

12% transit loss on daily Stored releases...

# DETERMINATION OF PRIORITY WATER

## MAY 2018

Mean daily discharge - cubic feet per second

2018	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	Natural Stored	Inflow Minus Outflow	Ac-ft change S C Res.	MAY	Diverted	Stored	Natural Flow	Gain/Loss Nat. Flow	Nat. Flow Available to Project	MAY	Viridan	Safford	Winkelman	Ashurst-Hayden				
APR 30	16	324	16	308	-308	-663	1	282	271	11	-5	11	1								
MAY 1	15	325	15	310	-310	-683	2	284	273	11	-4	11	2								
2	15	326	15	311	-311	-675	3	281	274	7	-8	7	3								
3	15	323	15	308	-308	-688	4	279	271	8	-7	8	4								
4	15	300	15	285	-285	-683	5	270	251	19	4	19	5								
5	14	282	14	268	-268	-602	6	243	236	7	-7	7	6								
6	14	282	14	268	-268	-619	7	241	236	5	-9	5	7								
7	13	282	13	269	-269	-591	8	240	237	3	-10	3	8								
8	13	282	13	269	-269	-559	9	239	237	2	-11	2	9								
9	13	282	13	269	-269	-553	10	237	237	2	-13	2	10								
10	12	282	12	270	-270	-523	11	235	235	2	-12	2	11								
11	12	282	12	270	-270	-665	12	230	230	2	-12	2	12								
12	12	301	12	289	-289	-559	13	240	240	2	-12	2	13								
13	13	312	13	299	-299	-648	14	256	256	2	-13	2	14								
14	13	313	13	300	-300	-592	15	257	257	2	-13	2	15								
15	13	347	13	334	-334	-817	16	274	274	2	-13	2	16								
16	12	366	12	354	-354	-688	17	299	299	2	-12	2	17								
17	11	365	11	354	-354	-742	18	300	300	2	-11	2	18								
18	10	364	10	354	-354	-729	19	301	301	2	-10	2	19								
19	9	364	9	355	-355	-737	20	302	302	2	-9	2	20								
20	9	364	9	355	-355	-574	21	302	302	2	-9	2	21								
21	8	364	8	356	-356	-792	22	300	300	2	-8	2	22								
22	8	363	8	355	-355	-632	23	301	301	2	-8	2	23								
23	7	379	7	372	-372	-758	24	307	307	2	-7	2	24								
24	7	388	7	381	-381	-682	25	319	319	2	-7	2	25								
25	7	388	7	381	-381	-722	26	320	320	2	-7	2	26								
26	7	387	7	380	-380	-649	27	321	321	2	-7	2	27								
27	7	386	7	379	-379	-651	28	322	322	2	-7	2	28								
28	6	385	6	379	-379	-738	29	320	320	2	-6	2	29								
29	7	376	7	369	-369	-716	30	315	315	2	-7	2	30								
30	7	371	7	364	-364	-615	31	309	309	2	-7	2	31								
31	7	370	7	363	-363	-638															

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

12% transit loss on daily Stored releases...

# DETERMINATION OF PRIORITY WATER

## JUNE 2018

Mean daily discharge - cubic feet per second

2018 MAY 31 JUN 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	SAN CARLOS RESERVOIR				ASHURST-HAYDEN DAM				DAILY CALL SYSTEM				VERSION 7.08 COMPUTED PRIORITY YEAR				
	RELEASES		STORAGE		Sluiced and/or Spilled		Natural Flow		Duncan		Safford			Winkelman			
	River Inflow	Total	Natural Flow	Stored	Inflow Minus Outflow	Ac-ft change S C Res.	JUN	Diverted	Stored	Natural Flow	Gain/Loss Nat. Flow	Nat. Flow Available to Project		JUN	Virden	Immem	Immem
	7	370	7	363	-363	-538	1	310	310	-7		1	1	Immem			
	6	368	6	362	-362	-607	2	310	310	-6		2	2	"			
	5	367	5	362	-362	-611	3	309	309	-5		3	3	"			
	5	367	5	362	-362	-732	4	308	308	-5		4	4	"			
	6	367	6	361	-361	-507	5	307	307	-6		5	5	"			
	5	365	5	360	-360	-725	6	307	307	-5		6	6	"			
	5	386	5	381	-381	-801	7	316	316	-5		7	7	"			
	5	395	5	390	-390	-517	8	329	329	-5		8	8	"			
	4	413	4	409	-409	-804	9	337	337	-4		9	9	"			
	3	436	3	433	-433	-408	10	362	362	-3		10	10	"			
	3	435	3	432	-432	-763	11	363	363	-3		11	11	"			
	3	433	3	430	-430	-640	12	363	363	-3		12	12	"			
	2	432	2	430	-430	-731	13	363	363	-2		13	13	"			
	2	431	2	429	-429	-540	14	363	363	-2		14	14	"			
	2	429	2	427	-427	-788	15	362	362	-2		15	15	"			
	3	438	3	435	-435	-641	16	384	383	-2	1	16	16	"			
	3	441	3	438	-438	-663	17	397	385	12	9	17	17	"			
	3	438	3	435	-435	-699	18	385	383	2	-1	18	18	"			
	3	435	3	432	-432	-804	19	379	379	-3	-3	19	19	"			
	3	321	3	318	-318	-550	20	354	280	74	71	20	20	"			
	3	92	3	89	-89	-150	21	149	78	71	68	21	21	"			
	4	10	4	6	-6	6	22	88	5	83	79	22	22	"			
	4		4	4	4		23	51	51	51	55	23	23	"			
	3		3	3	3	-8	24	37	37	37	40	24	24	"			
	2		2	2	2	8	25	29	29	29	29	25	25	"			
	2		2	2	2	-1	26	23	23	23	25	26	26	"			
	1		1	1	1	1	27	18	18	18	18	27	27	1880			
	1		1	1	1	-1	28	15	15	15	15	28	28	1881			
	1		1	1	1	-4	29	14	14	14	14	29	29	1880			
	1		1	1	1	-3	30	13	13	13	13	30	30	1880			1880

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

# DETERMINATION OF PRIORITY WATER

## JULY 2018

Mean daily discharge - cubic feet per second

2018	SAN CARLOS RESERVOIR				ASHURST-HAYDEN DAM				DAILY CALL SYSTEM				VERSION 7.08	
	River Inflow	RELEASES		STORAGE	Sluiced and/or Spilled	Diverted	Stored	Natural Flow	Gain/Loss Nat. Flow to Project	Nat. Flow Available to Project	COMPUTED PRIORITY YEAR			
		Total	Natural Flow	Inflow Minus Outflow							Ac-ft change S C Res.	JUL		Duncan Virden
JUN 30				3										
JUL 1				-3							1885	1880	1881	1881
JUL 2				-2							1880	1885	1880	1880
JUL 3				-4							1879	1880	"	"
JUL 4	1		1	6							1880	1879	1885	1885
JUL 5	1		1	8							1880	"	1880	1880
JUL 6				-5							1881	"	1879	1879
JUL 7				4							1880	1881	1880	1880
JUL 8				3							"	1880	"	"
JUL 9	26		26	2							1881	"	1881	1881
JUL 10	6		6	3							1924	1924	1880	1880
JUL 11	3		3	-2							"	"	1924	Imm
JUL 12	4		4	11							"	"	"	"
JUL 13	124		124	7							"	"	"	"
JUL 14	90		90	9							"	"	"	"
JUL 15	129		129	-5							"	"	"	"
JUL 16	67		67	11							"	"	"	"
JUL 17	70		70	27							"	"	"	"
JUL 18	250		250	43							"	"	"	"
JUL 19	174		174	99							"	"	"	"
JUL 20	85		85	181							"	"	"	"
JUL 21	31		31	87							"	"	"	"
JUL 22	19		19	46							"	"	"	"
JUL 23	18		18	-14							"	"	"	"
JUL 24	13		13	9							"	"	"	"
JUL 25	9		9	22							"	"	"	"
JUL 26	8	42	34	-88							"	"	"	"
JUL 27	10	55	45	-94							"	"	"	"
JUL 28	9	52	43	-89							"	"	"	"
JUL 29	38	51	13	-77							"	"	"	"
JUL 30	123	51	51	-80							"	"	"	"
JUL 31	63	22	22	41							"	"	"	"

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

12% transit loss on daily Stored releases...

# DETERMINATION OF PRIORITY WATER

## AUGUST 2018

Mean daily discharge - cubic feet per second

2018 JUL AUG	SAN CARLOS RESERVOIR					ASHURST-HAYDEN DAM					DAILY CALL SYSTEM				VERSION 7.08 PRIORITY YEAR
	RELEASES		STORAGE			Sluiced and/or Spilled	ASHURST-HAYDEN DAM		Gain/Loss Nat. Flow	Nat. Flow Available to Project	COMPUTED		Winkelman Immem	Ashurst- Hayden Immem	
	Total	Natural Flow	Natural Flow	Stored	Inflow Minus Outflow		Ac-ft change S C Res.	Diverted			Stored	Natural Flow			
River Inflow														AUG	
31	63	22	22	41	48	1	44	44	22	85	1	Duncan	Ashurst- Hayden	1	
1	63			63	150	2	47	47	47	110	2	"	"	2	
2	158			158	142	3	19	19	19	177	3	"	"	3	
3	68			68	143	4	3	3	3	71	4	"	"	4	
4	58	32	32	26	4	5			-32	26	5	"	"	5	
5	43	51	43	-8	-26	6			-43		6	"	"	6	
6	18	51	18	33	-66	7			-18		7	"	"	7	
7	24	52	24	28	-62	8	91	24	43	67	8	"	"	8	
8	204	52	52	152	10	9	87		35	239	9	"	"	9	
9	75	19	19	56	35	10	45		26	101	10	"	"	10	
10	35			35	113	11	73		73	108	11	"	"	11	
11	25			25	23	12	54		54	79	12	"	"	12	
12	26			26	12	13	108		108	134	13	"	"	13	
13	146			146	11	14	33		33	179	14	"	"	14	
14	110			110	89	15	32		32	142	15	"	"	15	
15	492			492	116	16	38		38	530	16	"	"	16	
16	163			163	314	17	38		38	201	17	"	"	17	
17	277	35	35	242	125	18	21		-14	263	18	"	"	18	
18	110	53	53	57	165	19	15		-39	71	19	"	"	19	
19	60	54	54	6	28	20	14		-40	20	20	"	"	20	
20	87	53	53	34	-40	21	21		-32	55	21	"	"	21	
21	130	54	54	76	-11	22	39		-15	115	22	"	"	22	
22	194	20	20	174	23	23	48		28	222	23	"	"	23	
23	100			100	155	24	78		78	178	24	"	"	24	
24	175			175	114	25	63		63	238	25	"	"	25	
25	189			189	207	26	98		98	287	26	"	"	26	
26	178			178	185	27	24		24	202	27	"	"	27	
27	150	32	32	118	152	28	21		-12	138	28	"	"	28	
28	86	52	52	34	85	29	17		-35	51	29	"	"	29	
29	42	52	42	-10		30	9		-42		30	"	"	30	
30	25	52	25	27	-43	31	26		-23	2	31	"	"	31	
31	14	52	14	38	-77							"	"		

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

12% transit loss on daily Stored releases...

# DETERMINATION OF PRIORITY WATER

## SEPTEMBER 2018

Mean daily discharge - cubic feet per second

2018	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	Stored	Inflow Minus Outflow	Ac-ft change S C Res.	SEP	Diverged	Stored	Natural Flow	Duncan Virden	Safford		Winkelman
AUG 31	14	52	14	38	-38	-77	1	28	28	-14	1924	1924	1924	1924
SEP 1	24	21	21		3	35	2	94	94	73	"	"	"	"
2	59				59	-7	3	400	287	687	"	"	"	"
3	229				229	56	4	20	119	139	"	"	1884	1884
4	335				335	212	5		76	76	"	"	1904b	1904b
5	486				486	323	6	20	20	20	"	"	1924	1924
6	677				677	482	7	10	10	10	"	"	"	"
7	179	36	36		143	530	8	7	7	-30	"	"	"	"
8	234	52	52		182	161	9	4	4	-48	"	"	"	"
9	122	53	53		70	213	10	2	2	-50	"	"	"	"
10	89	53	53		36	49	11	18	18	-35	"	"	Immem	Immem
11	58	53	53		5	10	12	31	31	-22	"	"	1924	1924
12	52	21	21		31	20	13	18	18	-3	"	"	Immem	Immem
13	50				50	39	14	2	2	2	"	"	"	"
14	36				36	40	15	10	1	11	"	"	1892	1892
15	29				29	20	16	5	1	6	"	"	1924	1924
16	21				21	10	17	0	0	0	"	"	Immem	Immem
17	14				14	10	18	0	0	0	"	"	"	"
18	12				12	-10	19	0	0	0	"	"	"	"
19	11				11	10	20	1000	0	1000	"	"	1924	1924
20	383				383	61	21	25	0	25	"	"	1898	1898
21	1060				1060	372	22	20	0	20	"	"	1905	1905
22	683	34	34		650	927	23	10	0	-23	"	"	1924	1924
23	199	54	54		145	556	24	15	0	-39	"	"	"	"
24	104	55	55		49	220	25	25	1	-29	"	"	"	"
25	54	55	54	1	-1	24	26	25	1	-29	"	"	"	"
26	40	55	40	15	-15	-24	27	25	1	-15	"	"	"	"
27	27	21	21		6	12	28	25	1	4	"	"	"	"
28	18				18	25	29	15	1	16	"	"	"	"
29	15				15	15	30	5	1	6	"	"	"	"
30	13				13	-13					"	"	"	"

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

12% transit loss on daily Stored releases...

# DETERMINATION OF PRIORITY WATER

## OCTOBER 2018

Mean daily discharge - cubic feet per second

2018	SAN CARLOS RESERVOIR				ASHURST-HAYDEN DAM				DAILY CALL SYSTEM				Ashurst-Hayden 1924	
	RELEASES		STORAGE		Sluiced and/or Spilled		Natural Flow		Duncan Virden		Safford Winkelman			OCT
	Total	Natural Flow	Inflow Minus Outflow	Ac-ft change S C Res.	Diverted	Stored	Natural Flow	Nat. Flow to Project	1924	1924	1924	1924		
SEP 30	13		13	-13	1	5	5	5	5	18	18	1		
OCT 1	16		16	13	2	20	20	20	20	36	36	2		
2	15		15	37	3	5	5	5	5	20	20	3		
3	15		15		4					15	15	4		
4	17		17		5					17	17	5		
5	15		15	-12	6	10	10	10	10	25	25	6		
6	13		13		7	10	10	10	10	23	23	7		
7	12		12	37	8	10	10	10	10	22	22	8		
8	12		12	12	9	10	10	10	10	22	22	9		
9	12		12		10	5	5	5	5	17	17	10		
10	11		11	-25	11	5	5	5	5	16	16	11		
11	12		12		12	2	2	2	2	14	14	12		
12	13		13	25	13	5	5	5	5	18	18	13		
13	15		15	100	14	50	50	50	50	65	65	14		
14	46		46	251	15	1000	1000	1000	1000	1046	1046	15		
15	50		50		16	200	200	200	200	250	250	16		
16	51		51	89	17	200	200	200	200	251	251	17		
17	103		103	25	18	100	100	100	100	203	203	18		
18	199		199	283	19	100	100	100	100	299	299	19		
19	158		158	300	20	80	80	80	80	238	238	20		
20	123		123	264	21	80	80	80	80	203	203	21		
21	103		103	148	22	35	35	35	35	138	138	22		
22	97	34	34	94	23	40	40	40	40	103	103	23		
23	92	54	54	38	24	50	50	50	50	88	88	24		
24	136	54	54	82	25	45	45	45	45	127	127	25		
25	947	53	53	894	26	290	290	290	290	1184	1184	26		
26	368	54	54	315	27	75	75	75	75	390	390	27		
27	250	20	20	230	28	45	45	45	45	275	275	28		
28	225			225	29	20	20	20	20	245	245	29		
29	204	34	34	170	30	30	30	30	30	200	200	30		
30	173	54	54	119	31	20	20	20	20	139	139	31		
31	154	55	55	99										

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

12% transit loss on daily Stored releases...

# DETERMINATION OF PRIORITY WATER

## NOVEMBER 2018

Mean daily discharge - cubic feet per second

2018	SAN CARLOS RESERVOIR										ASHURST-HAYDEN DAM					DAILY CALL SYSTEM				VERSION 7.08
	RELEASES					STORAGE					ASHURST-HAYDEN DAM					COMPUTED PRIORITY YEAR				
	River Inflow	Total	Natural Flow	Stored	Inflow Minus Outflow	Ac-ft change S C Res.	NOV	Sluiced and/or Spilled	Diverted	Stored	Natural Flow	Gain/Loss Nat. Flow	Nat. Flow Available to Project	Duncan Virden	Safford	Winkelman	Ashurst-Hayden			
OCT 31	154	55	55	99	166	1	20				-35	119	1924			1924				
NOV 1	145	55	55	90	122	2	20				-35	110	"			"				
2	141	55	55	86	138	3	20				-35	106	"			"				
3	140	17	17	123	169	4	20				3	143	"			"				
4	141			141	201	5	20				20	161	"			"				
5	135			135	187	6	20				20	155	"			"				
6	130			130	204	7	20				20	150	"			"				
7	125	25	25	101	142	8	20				-5	121	"			"				
8	120	54	54	66	80	9	15				-39	81	"			"				
9	114	54	54	60	63	10	15				-39	75	"			"				
10	109	54	54	55	64	11	10				-44	65	"			"				
11	104	54	54	50	32	12	20				-34	70	"			"				
12	102	19	19	83	96	13	20				1	103	"			"				
13	103			103	128	14	20				20	123	"			"				
14	103			103	113	15	15				15	118	"			"				
15	107			107	162	16	15				15	122	"			"				
16	118			118	163	17	15				15	133	"			"				
17	116	36	36	80	98	18	5				-31	85	"			"				
18	112	58	58	55	99	19	5				-53	60	"			"				
19	105	58	58	48	49	20	5				-53	53	"			"				
20	104	58	58	47	50	21	5				-53	52	"			"				
21	104	58	58	47	149	22	40				-18	87	"			"				
22	104	22	22	82	33	23	40				18	122	"			"				
23	102			102	150	24	40				40	142	"			"				
24	101			101	167	25	30				30	131	"			"				
25	102			102	117	26	10				10	112	"			"				
26	101	34	34	67	85	27	15				-19	82	"			"				
27	103	29	29	74	101	28	10				-19	84	"			"				
28	104			104	154	29	40				40	144	"			"				
29	105			105	154	30	20				20	125	"			"				
30	110			110	242															

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

12% transit loss on daily Stored releases. ...



# DETERMINATION OF PRIORITY WATER

## DECEMBER 2018

Mean daily discharge - cubic feet per second

2018	SAN CARLOS RESERVOIR				ASHURST-HAYDEN DAM				DAILY CALL SYSTEM				VERISON 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.	DEC	Diverted	Stored	Natural Flow	Gain/Loss Nat. Flow	Nat. Flow Available to Project	DEC	Duncan Virden		Safford	Winkelman
NOV 30	110	110	242		1	20			20	130	1	1924	1924	1924	1924
DEC 1	116	116	139		2	10			10	126	2	"	"	"	"
2	118	118	229		3	10			10	128	3	"	"	"	"
3	126	126	159		4	10			10	136	4	"	"	"	"
4	115	115	179		5	10			10	125	5	"	"	"	"
5	101	101	179		6	10			10	111	6	"	"	"	"
6	97	97	181		7	10			10	107	7	"	"	"	"
7	93	93	201		8	10			10	103	8	"	"	"	"
8	88	88	146		9	10			10	98	9	"	"	"	"
9	85	85	111		10	10			10	95	10	"	"	"	"
10	85	85	111		11	10			10	95	11	"	"	"	"
11	87	87	149		12	10			10	97	12	"	"	"	"
12	85	85	112		13	10			10	95	13	"	"	"	"
13	88	88	188		14	5			5	93	14	"	"	"	"
14	91	91	171		15	5			5	96	15	"	"	"	"
15	93	93	114		16	5			5	98	16	"	"	"	"
16	102	102	57		17	5			5	107	17	"	"	"	"
17	101	101	211		18	5			5	106	18	"	"	"	"
18	99	99	116		19	5			5	104	19	"	"	"	"
19	99	99	135		20	5			5	104	20	"	"	"	"
20	90	90	156		21	5			5	95	21	"	"	"	"
21	88	36	78		22	5			-31	57	22	"	"	"	"
22	91	56	39		23	5			-51	40	23	"	"	"	"
23	90	57	20		24	10			-47	43	24	"	"	"	"
24	94	58	39		25	70			-58	37	25	"	"	"	"
25	103	57	46		26	70			13	116	26	"	"	"	"
26	115	22	93		27	70			48	163	27	"	"	"	"
27	122		122		28	50			50	172	28	"	"	"	"
28	125		125		29	30			30	155	29	"	"	"	"
29	131		131		30	20			20	151	30	"	"	"	"
30	135		135		31	20			20	155	31	"	"	"	"
31	141		141												

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

12% transit loss on daily Stored releases....



## RELATIVE DIVERSION RIGHT FOR DUNCAN VALLEY

Based on one cubic foot per second for each eighty acres

THEN BEING IRRIGATED

Year	Sunset		New Model		Valley		Laura Short		Albert		Total	
	Decreased	TBI 2018	Decreased	TBI 2018	Decreased	TBI 2018	Decreased	TBI 2018	Decreased	TBI 2018	Decreased	Modified
1874	6.3	4.9									6.3	4.9
1881	12.1	9.5									12.1	9.5
1882	13.2	10.3									13.2	10.3
1884		0.4										
1885	15.5	12.1	2.1	1.2	1.0	0.5					18.7	13.8
1886			4.0	2.3	2.0	0.9					21.6	15.3
1887	16.1	12.6	4.1	2.3							22.3	15.8
1888			6.5	3.7	7.2	3.4					29.9	19.7
1889			7.8	4.4							31.2	20.4
1891	16.5	12.9	7.9	4.5							31.7	20.8
1892			8.0	4.5							32.9	21.7
1893	17.8	13.9	8.7	4.9							33.8	22.2
1894			11.0	6.3	8.2	3.9					37.1	24.1
1895	19.8	15.5	11.9	6.8	9.6	4.5					41.4	26.8
1896	21.0	16.4	14.0	8.0							44.8	28.9
1897	21.1	16.5	22.1	12.6	13.7	6.5					58.3	35.6
1898	24.4	19.1	28.2	16.0	14.4	6.8					68.4	41.9
1900	27.6	21.6	29.3	16.7	14.6	6.9					72.9	45.2
1901				16.7								
1902												
1903												
1904												
1905	28.5	22.3										
1906			29.9	17.0	15.1	7.1					74.3	46.1
1907			30.1	17.1	15.2	7.2					75.0	46.5
1908			30.2	17.2								
1909												
1910												
1911	29.1	22.8	31.1	17.7								
1912			31.3	17.8								
1913			30.9	17.6	16.6	7.9					77.4	47.8
1914			30.9	17.6								
1915			31.1	17.7								
1916			31.1	17.7								
1917			31.3	17.8								
1918			31.4	17.9								
1919	29.4	23.0	31.7	18.0								
1920			31.8	18.1	17.0	8.0						
1921					17.1	8.1						
1926			33.6	18.1	17.2	8.1						
1929			34.4	18.1	17.3	8.2						
Total	34.5	27.0	32.5	18.5	17.3	8.2					85.8	55.1

DECREED ACRES	2,759.90	2,597.65	1,386.85	441.00	137.90	144.10	315.10	11.60	49.80	25.60	26.30	36.50	0.00	8.80	7,941.10
TBI ACRES	2,158.51	1,477.29	655.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4,291.70
% REDUCTION	21.79%	43.13%	52.71%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	45.96%
% ACRES TBI	78.21%	56.87%	47.29%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	54.04%

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



# 2018

## 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	67	71	-16	-2	-5	-5	131	-8	6624	-12	254	339	7440
Gila River Near Clifton	-82	188	-13	-4	-33	-2	-187	6	80	-110	22	-9	-143
San Francisco River @ Clifton	-28	-9	74	47	-2	-2	-4	-11	-6	-217	-39	-7	-203
Head of Safford Valley	-19	-27	-18	-23	-5	-3	-14	-133	-589	-25	-22	-17	-895
Gila @ Calva	-22	-22	-1	5	-2	-2	-31	18	50	124	39	25	182
San Carlos River @ Peridot	0	0	-1	11	0	0	0	-3	0	0	0	0	9
Gila Below Coolidge Dam	-45	-16	-20	-5	-41	-193	-15	-3	-98	-98	-52	-151	-739
Gila @ Kelvin	24	-16	-20	237	-31	-33	-1	-4	-8	-31	-209	-405	-498
Florence Casa Grande Canal	0	-36	258	467	187	30	-472	-164	-18	0	0	0	252

# 2018

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

Mean daily diversions, cubic feet per second

2018 DAY	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	91	53	157	115	38	4.4	1.7	34	31	23	140	88
2	90	58	149	121	37	3.9	1.5	61	102	26	138	91
3	91	75	142	112	37	3.3	1.4	43	212	25	132	91
4	86	81	133	90	35	3.5	1.4	48	140	25	126	89
5	84	82	127	78	32	3.2	1.4	66	94	25	128	80
6	85	78	125	77	30	3.1	1.5	58	107	25	126	77
7	84	74	119	76	28	3.1	1.4	53	76	27	114	75
8	81	71	116	79	26	2.9	1.5	54	70	31	104	82
9	76	70	106	89	23	2.9	1.9	37	74	31	100	77
10	75	60	103	90	21	2.9	1230	83	52	31	97	76
11	75	58	102	78	21	2.6	14	157	43	28	99	78
12	76	57	102	69	22	2.3	49	96	36	29	100	88
13	78	60	110	71	22	2.3	15	70	28	40	99	88
14	74	63	107	73	21	2.2	19	132	20	44	97	88
15	83	79	96	74	19	2.4	15	82	15	45	93	89
16	79	122	104	72	18	3.2	15	53	13	53	83	89
17	73	225	106	63	16	3.8	98	46	12	58	80	88
18	70	301	115	60	15	3.2	33	52	13	61	85	89
19	72	291	117	57	17	2.7	30	43	105	63	83	89
20	72	416	114	53	16	2.2	40	38	38	61	75	88
21	75	434	112	53	14	2.2	38	35	32	58	76	90
22	83	359	105	55	14	2.2	31	36	24	64	78	91
23	87	299	98	59	13	2.1	29	72	20	277	76	90
24	87	264	99	55	12	2.0	31	35	20	285	78	89
25	83	232	108	51	11	1.9	36	134	18	186	83	90
26	76	207	100	45	10	1.8	39	94	26	184	84	90
27	71	185	99	44	8.6	1.7	41	70	31	180	82	90
28	56	170	90	46	7.4	1.6	39	68	28	148	82	97
29	49		95	47	6.6	1.6	126	52	23	137	78	94
30	48		111	42	6.0	1.9	86	46	22	134	81	94
31	47		102		5.3		54	40		136		94
<b>Total</b>	2,353	4,523	3,470	2,096	602	79	2,138	1,986	1,524	2,538	2,896	2,708
<b>Ac-ft</b>	4,668	8,971	6,883	4,158	1,195	157	4,241	3,939	3,023	5,035	5,743	5,372

Total for the Year: 53,383 ac-ft

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

# 2018

## GILA RIVER NEAR CLIFTON, ARIZONA

Mean daily diversions, cubic feet per second

2018 DAY	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	98	72	159	64	22	18	13	58	37	12	105	68
2	98	68	153	65	22	19	12	229	34	12	110	71
3	99	68	143	67	21	19	12	64	66	12	111	73
4	100	72	133	67	21	19	11	55	135	12	111	76
5	100	78	125	61	22	19	12	44	95	12	108	72
6	98	80	116	57	21	20	11	99	121	12	105	66
7	97	80	111	54	22	21	12	395	306	12	101	61
8	91	78	104	49	22	20	13	46	115	13	93	62
9	89	76	97	46	21	20	14	40	94	13	84	63
10	88	75	92	47	21	20	35	32	78	13	78	64
11	85	70	89	50	21	19	402	122	72	14	75	66
12	84	68	86	45	20	19	211	140	60	16	74	69
13	83	70	83	40	20	18	158	76	45	17	74	76
14	83	70	83	41	19	17	83	64	34	17	74	81
15	83	81	83	41	19	18	74	151	31	16	74	85
16	87	89	80	39	19	20	79	342	25	30	72	87
17	87	102	80	39	19	20	469	49	24	57	68	89
18	85	167	77	35	19	18	82	31	23	42	62	88
19	85	233	79	31	19	17	67	25	648	45	68	88
20	84	234	80	28	19	17	49	23	1,370	49	65	88
21	84	332	79	26	19	17	42	64	56	48	61	90
22	84	309	75	25	19	16	38	46	27	58	60	90
23	88	255	72	24	19	16	31	205	20	718	61	91
24	90	217	69	24	19	16	21	127	17	714	59	91
25	91	194	66	24	19	15	20	148	15	226	63	92
26	92	171	66	22	20	14	16	79	14	157	69	93
27	89	156	69	22	20	14	112	64	13	148	68	93
28	85	139	65	22	20	14	162	49	12	143	67	94
29	81		63	22	20	13	55	49	12	122	64	93
30	76		62	22	20	14	110	43	12	113	60	96
31	74		63		20		78	39		113		99
<b>Total</b>	2,737	3,702	2,801	1,198	620	525	2,502	2,997	3,609	2,986	2,343	2,514
<b>Ac-ft</b>	5,428	7,343	5,556	2,375	1,229	1,041	4,963	5,945	7,158	5,922	4,647	4,986

Total for the Year: 56,592 ac-ft

Drainage area - 4,010 sq. mi.

# 2018

## SAN FRANCISCO RIVER AT CLIFTON, ARIZONA

Mean daily diversions, cubic feet per second

2018 DAY	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	53	59	71	58	29	14	3.9	54	64	36	79	60
2	53	58	69	56	28	14	5.2	58	142	35	77	60
3	53	55	66	51	32	11	3.5	57	271	34	72	59
4	53	55	65	49	32	9.9	4.3	57	134	33	70	58
5	51	54	63	49	30	10	5.2	48	105	31	69	59
6	49	53	61	49	28	11	7.2	45	81	29	67	58
7	50	53	62	50	31	10	7.5	65	61	32	63	59
8	49	53	64	49	30	10	8.4	71	63	35	60	59
9	49	53	64	49	29	11	12	88	58	33	59	59
10	51	53	60	47	26	11	14	77	53	36	60	58
11	53	54	60	41	26	9.8	18	90	47	35	60	57
12	55	53	61	42	20	8.2	42	160	42	41	56	58
13	55	53	61	42	20	8.4	86	106	40	45	58	56
14	55	55	62	46	20	7.2	97	69	35	46	56	56
15	55	77	64	46	22	7.5	177	61	34	56	55	58
16	55	116	61	45	21	14	96	55	30	165	55	58
17	53	116	62	45	21	19	182	77	28	248	57	59
18	53	118	62	45	21	20	122	87	28	140	57	61
19	55	102	62	46	21	17	69	67	57	109	56	60
20	55	109	60	39	21	15	61	50	74	91	53	59
21	56	122	60	38	19	13	48	46	85	80	54	59
22	56	107	59	39	19	10	41	37	68	87	54	59
23	57	92	58	38	16	6.8	68	49	57	118	55	57
24	57	84	57	37	15	7.2	67	103	48	334	56	58
25	56	77	58	33	15	7.6	50	168	38	210	57	59
26	56	69	60	34	14	7.2	47	119	41	176	56	61
27	56	68	62	34	15	5.8	47	82	39	138	56	61
28	56	70	63	32	17	5.5	75	67	37	113	59	63
29	56		63	32	17	5.4	98	55	36	95	58	62
30	60		60	30	17	4.2	69	45	34	86	59	60
31	64		59		15		71	37		81		58
<b>Total</b>	1,685	2,088	1,918	1,293	687	309	1,702	2,248	1,931	2,826	1,804	1,828
<b>Ac-ft</b>	3,342	4,141	3,804	2,564	1,362	613	3,376	4,460	3,830	5,605	3,578	3,625

Total for the Year: 40,299 ac-ft

Drainage area - 2,766 sq. mi.



# 2018

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

Mean daily diversions, cubic feet per second

2018 DAY	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	162	149	238	135	56	29	22	139	100	69	188	149
2	162	147	229	133	55	28	22	255	151	70	188	156
3	162	145	220	132	55	27	21	168	309	69	189	153
4	163	145	209	129	56	26	21	141	352	68	180	149
5	163	148	200	123	55	25	21	118	276	66	176	146
6	160	150	193	117	52	25	21	109	205	65	171	141
7	159	150	189	114	52	26	21	425	356	65	166	136
8	156	148	186	110	52	25	22	157	267	68	158	134
9	152	147	179	105	49	25	23	141	188	70	151	136
10	154	146	173	104	48	25	26	134	156	69	145	140
11	152	144	170	102	46	24	289	178	150	71	143	137
12	153	141	165	99	43	24	205	251	128	75	141	139
13	152	141	163	93	41	23	200	216	107	86	141	140
14	154	143	161	93	41	22	137	154	90	91	145	152
15	154	160	163	95	40	23	165	161	80	95	152	153
16	155	198	160	92	40	27	111	400	76	103	148	153
17	156	217	158	88	39	31	543	169	73	273	140	155
18	154	248	155	88	39	32	282	175	66	190	136	157
19	159	308	155	84	39	31	181	131	70	157	134	156
20	165	317	156	80	39	29	128	104	2,060	143	132	155
21	165	385	155	75	38	28	119	88	209	134	130	156
22	160	401	152	73	37	26	98	128	138	135	127	156
23	162	352	154	72	36	25	64	228	110	293	128	156
24	164	317	146	69	34	24	106	214	97	1,270	128	156
25	165	294	142	67	33	23	80	382	85	424	127	157
26	165	272	141	64	33	23	78	269	79	314	132	161
27	164	256	146	63	32	23	144	210	75	269	131	162
28	161	247	144	61	32	22	201	159	73	246	136	167
29	158		140	59	32	22	169	139	71	218	138	167
30	154		135	58	31	23	158	116	70	200	138	168
31	152		133		30		192	103		191		167
<b>Total</b>	<b>4,917</b>	<b>6,016</b>	<b>5,210</b>	<b>2,776</b>	<b>1,305</b>	<b>764</b>	<b>3,869</b>	<b>5,762</b>	<b>6,265</b>	<b>5,657</b>	<b>4,439</b>	<b>4,710</b>
<b>Ac-ft</b>	<b>9,753</b>	<b>11,933</b>	<b>10,334</b>	<b>5,507</b>	<b>2,588</b>	<b>1,515</b>	<b>7,674</b>	<b>11,429</b>	<b>12,427</b>	<b>11,220</b>	<b>8,805</b>	<b>9,342</b>

Total for the Year: 102,527 ac-ft

Drainage area - 7,896 sq. mi.

# 2018

## GILA RIVER AT CALVA, ARIZONA

Mean daily diversions, cubic feet per second

2018 DAY	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	145	130	163	28	15	6.0	0.4	63	24	16	145	116
2	143	129	121	29	15	5.4	0.2	153	59	15	141	118
3	132	128	99	30	15	5.1	0.4	66	213	15	140	126
4	130	127	90	26	15	5.7	1.0	55	309	17	141	115
5	132	126	82	27	14	5.4	0.7	43	486	15	135	101
6	132	129	71	28	14	5.3	0.3	18	677	13	130	97
7	130	130	61	28	13	4.8	0.1	9.5	179	12	125	93
8	129	131	58	25	13	3.7	0.1	123	234	12	120	88
9	129	131	64	23	13	3.3	26	59	122	12	114	85
10	126	130	59	23	12	2.9	5.8	23	89	11	109	85
11	125	128	55	23	12	2.7	2.7	16	58	12	104	87
12	125	126	52	21	12	2.4	3.7	26	52	13	102	85
13	124	125	54	21	13	2.2	124	127	50	15	103	88
14	125	130	54	22	13	2.2	90	109	36	30	103	91
15	126	140	53	22	13	2.5	129	450	29	49	107	93
16	119	260	50	21	12	3.0	67	153	21	48	118	102
17	125	231	49	21	11	3.1	70	249	14	103	116	101
18	130	224	48	21	10	3.0	250	107	12	199	112	99
19	129	216	47	20	9.3	2.6	174	59	11	158	105	99
20	130	278	34	19	9.0	2.8	85	36	383	123	104	90
21	130	296	30	20	8.1	4.0	31	29	1,060	102	104	88
22	133	333	30	21	7.7	3.9	19	188	683	94	104	91
23	135	352	30	21	7.2	3.3	18	97	199	92	102	90
24	141	314	30	21	7.0	2.3	13	167	104	136	101	94
25	142	285	30	19	6.9	1.5	8.6	181	54	947	102	103
26	141	263	30	19	6.7	1.3	7.8	171	40	368	101	115
27	140	214	30	18	6.5	1.1	10	146	27	250	103	122
28	139	185	30	17	6.3	0.8	8.5	84	18	225	104	125
29	137		29	16	6.8	0.5	38	42	15	204	105	131
30	134		29	16	6.7	0.3	122	25	13	173	110	135
31	132		30		7.2		63	14		154		141
<b>Total</b>	<b>4,090</b>	<b>5,391</b>	<b>1,692</b>	<b>661</b>	<b>329</b>	<b>93</b>	<b>1,368</b>	<b>3,087</b>	<b>5,271</b>	<b>3,632</b>	<b>3,410</b>	<b>3,192</b>
<b>Ac-ft</b>	<b>8,113</b>	<b>10,693</b>	<b>3,355</b>	<b>1,312</b>	<b>653</b>	<b>185</b>	<b>2,714</b>	<b>6,123</b>	<b>10,454</b>	<b>7,203</b>	<b>6,764</b>	<b>6,331</b>

Total for the Year: 63,899 ac-ft

Drainage area - 11,470 sq. mi.

# 2018

## SAN CARLOS RIVER NEAR PERIDOT, ARIZONA

Mean daily diversions, cubic feet per second

2018 DAY	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1				1.2								
2			0.2	1.2				4.5				
3			0.5	1.1				2.0	16			
4			0.6	0.8				3.4	26			
5			0.7	0.6								
6			0.9	0.6								
7			1.0	0.5				15				
8			1.0	0.5				81				
9			1.2	0.5				15				
10			1.3					13				
11			1.3					9.7				
12			1.6									
13			1.9					19				
14			2.0					0.8		17		
15			1.6					42		1.2		
16			1.4					10		3.5		
17			1.4					28				
18			1.5					3.1				
19			1.6					0.7				
20			2.0					52				
21			2.0					101		1.0		
22			1.9					5.8		3.2		
23			1.7					3.6				
24			1.5					8.1				
25			1.6					8.1				
26			1.7					7.4				
27			1.4					4.4				
28			1.5					1.9				
29			1.5					0.5				
30			1.4				1.0					
31			1.3									
Total			41	7			1	440	42	26		
Ac-ft			82	14			2	872	84	51		

Total for the Year: 1,103 ac-ft

Drainage area - 1,026 sq. mi.

# 2018

## GILA RIVER BELOW COOLIDGE DAM, ARIZONA

Mean daily diversions, cubic feet per second

2018 DAY	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1.1	269	107	345	325	368	0.7	0.7	21	3.0	55	3.0
2	1.1	255	107	344	326	367	0.7	0.7	3.9	2.7	55	3.0
3	42	261	107	344	323	367	0.7	0.7	3.9	2.6	17	3.0
4	42	261	107	344	300	367	0.7	32	3.9	2.6	0.7	3.0
5	1.1	261	107	343	282	365	0.7	51	3.9	2.6	0.7	3.0
6	1.1	260	107	342	282	386	0.7	51	3.9	2.6	0.7	3.0
7	1.1	260	107	342	282	395	0.7	52	36	2.6	25	3.0
8	1.1	239	107	340	282	413	0.7	52	52	2.6	54	3.0
9	42	227	108	340	282	436	0.7	19	53	2.6	54	3.0
10	37	227	149	339	282	435	0.7	0.7	53	2.6	54	3.0
11	0.9	227	169	337	282	433	0.7	0.7	53	2.6	54	3.0
12	0.9	203	172	337	301	432	0.7	0.7	21	2.6	19	3.0
13	0.9	169	172	336	312	431	0.7	0.7	3.4	2.6	0.7	3.0
14	0.9	159	172	371	313	429	0.7	0.7	3.4	2.6	0.7	3.0
15	0.9	99	173	392	347	438	0.7	0.7	3.2	2.6	0.7	3.0
16	0.9	69	172	332	366	441	0.7	0.7	3.0	2.6	0.7	3.0
17	30	71	172	298	365	438	0.7	35	3.0	2.6	36	3.0
18	45	72	173	298	364	435	0.7	53	3.0	2.6	58	3.0
19	0.9	72	173	298	364	321	0.7	54	2.9	2.6	58	3.0
20	0.9	72	228	296	364	92	0.7	53	2.6	2.6	58	3.0
21	0.9	73	288	308	364	10	0.7	54	2.6	2.6	58	36
22	0.9	72	305	339	363	9.4	0.7	20	34	34	22	56
23	0.9	93	316	338	379	9.0	0.7	0.7	54	54	0.7	57
24	0.9	106	316	338	388	9.0	0.7	0.7	55	54	0.7	58
25	0.9	106	316	338	388	9.0	0.7	0.7	55	53	0.7	57
26	68	107	316	329	387	8.6	42	0.7	55	54	34	22
27	174	107	320	325	386	7.5	55	32	21	20	29	3.0
28	192	107	338	324	385	6.7	52	52	3.0	3.0	3.0	3.0
29	231		345	324	376	6.6	51	52	3.0	34	3.0	3.0
30	253		344	324	371	6.1	51	52	3.0	54	3.0	3.0
31	262		344		370		22	52		55		3.0
<b>Total</b>	1,437	4,503	6,437	10,005	10,501	7,871	290	776	617	470	753	361
<b>Ac-ft</b>	2,849	8,931	12,768	19,845	20,829	15,612	575	1,539	1,224	932	1,493	716

Total for the Year: 87,315 ac-ft

Drainage area - 12,886 sq. mi.

# 2018

## NATURAL FLOW RELEASED AT COOLIDGE DAM

Mean daily diversions, cubic feet per second

2018 DAY	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1		130	107	29	15	6			21		55	
2		129	107	30	15	5					55	
3	42	128	100	31	15	5					17	
4	42	127	91	27	15	6		32				
5		126	82	27	14	5		43				
6		129	72	28	14	5		18				
7		130	62	28	13	5		24	36		25	
8		131	59	25	13	4		52	52		54	
9	42	131	66	23	13	3		19	53		54	
10	37	130	60	23	12	3			53		54	
11		128	57	23	12	3			53		54	
12		126	53	21	12	2			21		19	
13		125	56	21	13	2						
14		130	56	22	13	2						
15		99	55	22	13	3						
16		69	51	21	12	3						
17	30	71	50	21	11	3		35			36	
18	45	72	50	21	10	3		53			58	
19		72	49	20	9.0	3		54			58	
20		72	36	19	9.0	3		53			58	
21		73	32	20	8.0	4		54			58	36
22		72	32	21	8.0			20	34	34	22	56
23		93	32	21	7.0				54	54		57
24		106	32	21	7.0				55	54		58
25		106	31	19	7.0				54	53		57
26	68	107	31	19	7.0		8		40	54	34	22
27	140	107	32	18	7.0		10	32	21	20	29	
28	139	107	32	17	6.0		9	52				
29	137		30	16	7.0		38	42		34		
30	134		30	16	7.0		51	25		54		
31	132		31		7.0		22	14		55		
<b>Total</b>	989	3,025	1,664	670	331	78	139	623	546	412	737	286
<b>Ac-ft</b>	1,961	6,000	3,301	1,329	657	155	275	1,235	1,083	816	1,462	567

Total for the Year: 18,839 ac-ft

# 2018

## STORED WATER RELEASED AT COOLIDGE DAM

Mean daily diversions, cubic feet per second

2018 DAY	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1		139		316	310	362						
2		126		314	311	362						
3		133	7.0	313	308	362						
4		134	16	317	285	361						
5		135	25	316	268	360		7.5				
6		131	35	314	268	381		33				
7		130	45	314	269	390		28				
8		108	48	315	269	409						
9		96	42	317	269	433						
10		97	89	316	270	432						
11		99	112	314	270	430						
12		77	119	316	289	430						
13		44	116	315	299	429						
14		29	116	349	300	427						
15			118	370	334	435						
16			121	311	354	438						
17			122	277	354	435						
18			123	277	354	432						
19			124	278	355	318						
20			192	277	355	89						
21			256	288	356	6.1						
22			273	318	355							
23			284	317	372							
24			284	317	381							
25			285	319	381				1.0			
26			285	310	380		34		15			
27	34		288	307	379		45					
28	53		306	307	379		43					
29	94		315	308	369		13	10				
30	119		314	308	364			27				
31	130		313		363			38				
<b>Total</b>	430	1,478	4,773	9,335	10,170	7,721	134	144	16			
<b>Ac-ft</b>	853	2,932	9,467	18,516	20,172	15,315	266	285	32			

Total for the Year: 67,838 ac-ft

# 2018

## GILA RIVER AT KELVIN ARIZONA

Mean daily diversions, cubic feet per second

2018 DAY	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	26	253	109	332	306	338	4.3	104	38	18	43	28
2	23	253	108	327	311	337	3.1	31	597	2.8	46	19
3	21	252	107	323	312	336	2.3	8.9	623	2.0	47	17
4	19	257	106	321	311	334	1.6	2.3	96	1.8	45	15
5	41	257	107	321	278	333	1.2	0.3	30	2.1	22	14
6	36	257	107	318	265	332	0.6		4.4	1.6	9.8	13
7	24	256	107	318	263	357	0.5	24	0.6	1.2	4.2	16
8	20	257	107	316	260	364	0.3	232		1.2	1.7	31
9	17	231	106	314	259	387	0.2	64		1.3	3.1	20
10	18	221	104	314	258	404	0.2	98	24	1.4	41	15
11	39	220	137	314	256	403	0.4	100	33	1.6	45	13
12	32	220	159	312	254	402	33	116	34	1.4	46	13
13	21	195	162	313	276	402	8.2	176	35	3.8	46	13
14	17	165	161	316	285	401	1.1	59	17	526	24	12
15	15	177	159	359	286	396	0.3	58	5.9	254	11	12
16	13	124	160	373	326	426	5.2	200	1.3	33	6.0	12
17	13	81	160	305	339	432	0.7	58		13	5.7	12
18	12	76	159	285	340	418		36		5.5	6.4	11
19	26	74	160	282	342	412		7.9	262	2.2	20	11
20	33	74	159	279	342	291	0.7	24	375	0.8	62	12
21	22	75	221	281	341	116	0.5	38	44	0.6	66	12
22	17	75	278	298	338	52	0.4	51	20	3.1	67	13
23	15	75	306	318	337	31	0.3	120	3.5	4.3	66	31
24	14	86	310	315	355	22	0.4	82	1.2	67	39	75
25	13	105	310	314	360	18	0.7	228	27	50	24	79
26	12	106	309	313	359	13	0.5	81	38	214	18	83
27	12	106	306	303	360	11	0.4	17	40	75	16	82
28	115	107	311	298	362	9.3	1.0	25	39	46	27	51
29	155		333	295	360	7.5	126	7.6	20	23	44	35
30	201		335	294	348	5.4	62	33	6.4	10	31	28
31	226		333		341		39	38		17		25
<b>Total</b>	1,267	4,635	5,996	9,371	9,730	7,790	295	2,119	2,417	1,384	934	822
<b>Ac-ft</b>	2,513	9,194	11,893	18,587	19,299	15,452	585	4,202	4,794	2,745	1,853	1,631

Total for the Year: 92,749 ac-ft

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

# 2018

## OPERATION OF SAN CARLOS RESERVOIR

Quantities in Acre-Feet

2018 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	57625	62477	4852	8113		108	8221	2849	684	3533		-164
FEB	62477	63672	1195	10693		108	10801	8931	684	9615		-9
MAR	63672	53183	-10489	3355	82	21	3458	12768	1504	14272		-325
APR	53183	33039	-20144	1312	14		1326	19845	2162	22007		-537
MAY	33039	12919	-20120	653		52	705	20829	1884	22713		-1888
JUN	12919	239	-12680	185		27	212	15612	724	16336		-3444
JUL	239	393	154	2714	2	59	2775	575	194	769	1852	
AUG	393	2469	2076	6123	872	67	7062	1539	343	1882	3104	
SEP	2469	6832	4363	10454	84	33	10571	1224	647	1871	4337	
OCT	6832	11180	4348	7203	51	350	7604	932	391	1323	1933	
NOV	11180	14892	3712	6764		80	6844	1493	399	1892	1240	
DEC	14892	19415	4523	6331		224	6555	716	267	983	1049	
<b>Totals</b>			<b>-38210</b>	<b>63900</b>	<b>1105</b>	<b>1129</b>	<b>66134</b>	<b>87313</b>	<b>9883</b>	<b>97196</b>	<b>13515</b>	<b>-6367</b>



# 2018

In Acre-Feet

2018 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	57625							
JAN	62477	4852	8221	3533	0	-164	-164	-164
FEB	63672	1195	19022	13148	0	-9	-173	-9
MAR	53183	-10489	22480	27420	0	-325	-498	-325
APR	33039	-20144	23806	49427	0	-537	-1035	-537
MAY	12919	-20120	24511	72140	0	-1888	-2923	-1888
JUN	239	-12680	24723	88476	0	-3444	-6367	-3444
JUL	393	154	27498	89245	1852	0	-4515	1852
AUG	2469	2076	34560	91127	3104	0	-1411	3104
SEP	6832	4363	45131	92998	4337	0	2926	4337
OCT	11180	4348	52735	94321	1933	0	4859	1933
NOV	14892	3712	59579	96213	1240	0	6099	1240
DEC	19415	4523	66134	97196	1049	0	7148	1049
Graph:	STORAGE		INFLOW	RELEASES	BANK STOR/REL			

# 2018

## WATER SURFACE ELEVATIONS, SAN CARLOS RESERVOIR

Elevation in Feet

2018 DAY	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	2426.24	2427.36	2427.84	2424.71	2418.23	2408.86	2395.19	2396.53	2400.50	2404.98	2408.21	2410.50
2	2426.33	2427.26	2427.85	2424.51	2417.98	2408.47	2395.18	2396.98	2400.49	2405.01	2408.30	2410.63
3	2426.36	2427.17	2427.85	2424.32	2417.76	2407.99	2395.15	2397.38	2400.57	2405.01	2408.41	2410.72
4	2426.45	2427.12	2427.79	2424.12	2417.54	2407.65	2395.19	2397.39	2400.86	2405.01	2408.54	2410.82
5	2426.52	2427.05	2427.79	2423.93	2417.31	2407.15	2395.24	2397.32	2401.28	2405.00	2408.66	2410.92
6	2426.59	2426.92	2427.78	2423.74	2417.11	2406.58	2395.21	2397.14	2401.86	2405.00	2408.79	2411.02
7	2426.67	2426.85	2427.75	2423.56	2416.88	2406.20	2395.23	2396.96	2402.45	2405.03	2408.88	2411.13
8	2426.71	2426.79	2427.73	2423.34	2416.66	2405.59	2395.25	2396.99	2402.62	2405.04	2408.93	2411.21
9	2426.77	2426.71	2427.69	2423.14	2416.44	2405.27	2395.26	2397.09	2402.84	2405.04	2408.97	2411.27
10	2426.86	2426.66	2427.62	2422.93	2416.23	2404.65	2395.28	2397.40	2402.89	2405.02	2409.01	2411.33
11	2426.92	2426.58	2427.56	2422.75	2415.96	2404.10	2395.27	2397.46	2402.90	2405.02	2409.03	2411.41
12	2426.92	2426.53	2427.50	2422.48	2415.73	2403.43	2395.33	2397.49	2402.92	2405.04	2409.09	2411.47
13	2426.96	2426.48	2427.44	2422.27	2415.46	2402.90	2395.37	2397.52	2402.96	2405.12	2409.17	2411.57
14	2427.04	2426.49	2427.35	2422.02	2415.21	2402.06	2395.42	2397.74	2403.00	2405.32	2409.24	2411.66
15	2427.12	2426.60	2427.24	2421.81	2414.86	2401.30	2395.39	2398.01	2403.02	2405.32	2409.34	2411.72
16	2427.17	2426.66	2427.15	2421.59	2414.56	2400.41	2395.45	2398.67	2403.03	2405.39	2409.44	2411.75
17	2427.23	2426.75	2427.10	2421.39	2414.23	2399.30	2395.59	2398.91	2403.04	2405.41	2409.50	2411.86
18	2427.26	2426.87	2427.02	2421.19	2413.90	2397.66	2395.79	2399.21	2403.03	2405.63	2409.56	2411.92
19	2427.31	2426.92	2426.93	2420.96	2413.56	2395.95	2396.20	2399.26	2403.04	2405.86	2409.59	2411.99
20	2427.37	2427.06	2426.85	2420.76	2413.29	2395.20	2396.82	2399.19	2403.10	2406.06	2409.62	2412.07
21	2427.44	2427.14	2426.68	2420.56	2412.91	2395.24	2397.08	2399.17	2403.46	2406.17	2409.70	2412.11
22	2427.49	2427.25	2426.54	2420.35	2412.60	2395.24	2397.21	2399.21	2404.30	2406.24	2409.74	2412.13
23	2427.56	2427.37	2426.38	2420.11	2412.22	2395.19	2397.17	2399.48	2404.77	2406.30	2409.82	2412.14
24	2427.65	2427.49	2426.17	2419.90	2411.87	2395.24	2397.17	2399.67	2404.95	2406.33	2409.92	2412.16
25	2427.68	2427.59	2426.02	2419.67	2411.49	2395.23	2397.23	2400.00	2404.97	2406.49	2409.99	2412.19
26	2427.72	2427.68	2425.82	2419.44	2411.14	2395.24	2396.98	2400.28	2404.95	2407.07	2410.04	2412.30
27	2427.69	2427.75	2425.67	2419.20	2410.80	2395.23	2396.69	2400.50	2404.96	2407.38	2410.10	2412.33
28	2427.67	2427.78	2425.47	2418.95	2410.36	2395.21	2396.39	2400.62	2404.98	2407.69	2410.19	2412.44
29	2427.59		2425.25	2418.72	2409.94	2395.19	2396.10	2400.62	2404.98	2407.89	2410.28	2412.55
30	2427.51		2425.10	2418.48	2409.57	2395.21	2395.75	2400.56	2404.97	2408.02	2410.42	2412.63
31	2427.46		2424.90		2409.24		2395.97	2400.45		2408.13		2412.81

# 2018

## WATER SURFACE AREAS, SAN CARLOS RESERVOIR

Area in Acres

2018 DAY	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	3635	3716	3751	3509	2717	1582	163	5738	703	1235	1524	1749
2	3641	3709	3752	3484	2687	1547	162	5755	702	1238	1532	1765
3	3644	3703	3752	3461	2660	1505	159	5779	711	1238	1542	1777
4	3650	3699	3748	3436	2634	1474	163	5799	746	1238	1554	1790
5	3655	3694	3748	3413	2606	1429	168	5800	795	1237	1564	1803
6	3660	3684	3747	3389	2582	1379	165	5794	864	1237	1576	1816
7	3666	3679	3745	3367	2555	1345	167	5784	935	1240	1584	1830
8	3669	3675	3743	3340	2528	1250	169	5772	955	1241	1588	1840
9	3673	3669	3740	3316	2502	1262	170	5762	981	1241	1592	1848
10	3680	3665	3735	3290	2477	1196	172	5746	987	1239	1596	1856
11	3684	3660	3731	3268	2445	1131	171	5736	988	1239	1597	1866
12	3684	3656	3727	3234	2417	1051	177	5723	990	1241	1603	1874
13	3687	3652	3722	3208	2385	988	181	5710	995	1248	1610	1887
14	3693	3653	3716	3178	2355	888	186	5708	1000	1266	1616	1898
15	3699	3661	3708	3152	2311	798	183	5705	1002	1266	1625	1906
16	3703	3665	3701	3125	2273	692	189	5704	1003	1272	1634	1910
17	3707	3672	3697	3100	2230	573	202	5709	1005	1274	1639	1924
18	3709	3681	3692	3075	2187	407	222	5693	1003	1294	1645	1932
19	3713	3684	3685	3047	2144	238	262	5688	1005	1314	1647	1941
20	3717	3695	3679	3022	2109	164	323	5679	1012	1332	1650	1951
21	3722	3700	3667	2998	2060	168	349	5668	1055	1342	1657	1956
22	3726	3708	3657	2972	2020	168	362	5653	1154	1348	1661	1959
23	3731	3717	3645	2942	1971	163	358	5629	1210	1354	1668	1960
24	3737	3726	3630	2917	1925	168	358	5608	1232	1356	1677	1963
25	3740	3733	3619	2889	1876	167	364	5571	1234	1371	1683	1967
26	3743	3740	3604	2862	1831	168	338	5517	1232	1422	1689	1981
27	3740	3745	3593	2833	1787	167	310	5464	1197	1450	1697	1985
28	3739	3747	3579	2803	1730	165	281	5416	1235	1478	1709	1999
29	3733		3563	2775	1679	163	252	5346	1235	1496	1720	2013
30	3727		3552	2747	1646	165	218	5293	1234	1507	1738	2024
31	3724		3532		1616		239	5293		1517		2047

# 2018

## AVAILABLE STORED WATER, SAN CARLOS RESERVOIR

Storage in Acre-feet

2018 DAY	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	57988	62105	63897	52514	32356	12312	236	543	2504	6845	11302	15031
2	58315	61733	63934	51814	31681	11701	234	685	2497	6882	11440	15260
3	58425	61400	63934	51155	31093	10969	230	828	2553	6882	11609	15419
4	58753	61215	63709	50465	30510	10462	236	832	2765	6882	11810	15598
5	59009	60956	63709	49814	29908	9737	244	806	3088	6870	11997	15777
6	59265	60476	63672	49168	29389	8936	239	740	3570	6870	12201	15958
7	59558	60219	63560	48560	28798	8419	243	678	4100	6907	12343	16159
8	59704	59998	63485	47822	28239	7615	246	688	4261	6919	12423	16305
9	59925	59704	63335	47157	27686	7207	248	723	4474	6919	12486	16416
10	60256	59521	63073	46463	27163	6444	251	836	4523	6894	12550	16527
11	60476	59228	62849	45873	26498	5804	249	859	4533	6894	12582	16676
12	60476	59045	62626	44995	25939	5073	260	871	4553	6919	12678	16788
13	60624	58862	62402	44319	25291	4533	267	882	4592	7019	12806	16976
14	60919	58899	62067	43520	24699	3745	276	971	4632	7270	12919	17147
15	61215	59301	61659	42856	23882	3104	271	1087	4652	7270	13081	17261
16	61400	59521	61326	42165	23194	2441	282	1401	4662	7359	13244	17318
17	61622	59851	61141	41543	22452	1742	309	1526	4672	7384	13342	17529
18	61733	60292	60845	40925	21723	938	352	1691	4662	7667	13441	17645
19	61919	60476	60513	40221	20986	388	451	1719	4672	7967	13490	17780
20	62142	60993	60219	39614	20412	238	632	1679	4733	8231	13540	17936
21	62402	61289	59594	39012	19620	244	719	1668	5105	8379	13689	18014
22	62588	61696	59082	38385	18988	244	765	1691	6032	8473	13722	18053
23	62849	62142	58498	37676	18230	236	751	1846	6588	8554	13872	18073
24	63185	62588	57734	37060	17548	244	751	1960	6808	8594	14039	18112
25	63298	62961	57190	36393	16826	243	773	2167	6832	8813	14156	18171
26	63447	63298	56468	35731	16177	244	685	2352	6808	9623	14241	18388
27	63335	63560	55928	35048	15526	243	591	2504	6820	10068	14342	18447
28	63260	63672	55211	34343	14788	239	502	2589	6845	10522	14496	18667
29	62961		54425	33702	14072	236	425	2589	6845	10819	14650	18887
30	62663		53891	33039	13457	239	345	2546	6832	11014	14892	19049
31	62477		53183		12919		393	2469		11180		19415

# 2018

## DAILY EVAPORATION, SAN CARLOS RESERVOIR

Acre-feet

2018 DAY	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	19	27	28	40	65	49	5	7	12	10	16	11
2	22	47	48	83	33	43	5	8	15	7	11	9
3	27	44	48	66	51	46	6	7	8	12	19	2
4	25	45	39	60	63	46	4	12	14	19	19	4
5	21	35	59	61	64	43	5	12	18	25	12	6
6	22	44	39	71	62	41	7	11	18	20	15	31
7	26	39	32	93	54	44	4	12	17	12	17	1
8	16	25	47	80	72	42	6	7	21	12	21	2
9		113	59	75	77	42	4	10	20	15	18	12
10		53	36	66	84	43	1	9	23	13	13	8
11	23	42	32	75	90	37	3	9	25	14	18	3
12	17	39	51	102	75	37	4	7	24	8	20	12
13	20	34	33	67	67	32	3	7	28	13	17	12
14	20	18	64	70	67	36	3	9	23	8	12	8
15	18	1	31	63	61	26	3	20	22	3	11	11
16	32	12	60	96	62	10	3	6	23	7	10	1
17	26	17	39	54	71	17	6	13	27	4	9	10
18	23	46	44	71	59	13	5	13	31	11	13	15
19	23	44	50	83	56	10	6	17	9	14	13	3
20	18	29	49	52	62	8	7	17	20	23	9	20
21	23	33	55	62	62	6	10	6	18	10	12	6
22	13	27	39	70	64	6	13	5	26	9	6	7
23	23	36	66	69	53	6	12	12	23	6	9	8
24	24	40	51	78	57	6	11	10	25	4	14	9
25	20	40	67	71	59	7	12	9	28	15	13	8
26	30	32	55	64	46	5	11	11	27	23	13	11
27	25	29	33	80	45	6	8	15	26	12	9	9
28	28	51	62	84	52	6	10	19	28	14	8	9
29	39		59	88	45	5	6	19	25	14	19	6
30	22		66	68	53	6	5	17	23	18	3	8
31	39		63		53		6	7		16		5
<b>Total</b>	684	1,042	1,504	2,162	1,884	724	194	343	647	391	399	267

Total for the Year: 10,241 acre-feet

# 2018

## DAILY RAINFALL, SAN CARLOS RESERVOIR

Acre-feet

2018 DAY	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1					52			5	4	11		4
2										9		
3												
4												
5							3					
6												89
7								12		65		
8							2					
9	92							4				
10			6					12				
11										6		
12							12			16		
13										182		
14		454					1			5		
15		79				15				4		
16		15				12	7	3				
17												
18		70	15									
19		9							29			
20								12				
21	16							1		29		
22												
23								10		23		
24								8				
25							17					
26							6					
27		34										7
28		19					7					
29											54	
30							4				26	
31												124
<b>Total</b>	108	680	21		52	27	59	67	33	350	80	224

Total for the Year: 1,701 ac-ft

# 2018

## RAINFALL AT COOLIDGE DAM

Elevation approximately 2,550 feet

Inches

2018 DAY	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1					0.23			0.23	0.07	0.11		0.03
2										0.09		
3												
4												
5							0.20					
6												0.59
7								0.40		0.63		
8							0.15					
9	0.30							0.13				
10			0.02				0.02	0.38				
11										0.06		
12							0.86			0.15		
13										1.75		
14		1.49					0.07			0.05		
15		0.26				0.22				0.04		
16		0.05				0.19	0.48	0.07				
17												
18		0.23	0.05									
19		0.03							0.35			
20								0.25				
21	0.05							0.02		0.26		
22												
23								0.20		0.20		
24								0.16				
25							0.58					
26							0.19					
27		0.11										0.04
28		0.06					0.28					
29											0.38	
30							0.20				0.18	
31												0.73
<b>Total</b>	0.35	2.23	0.07		0.23	0.41	3.03	1.84	0.42	3.34	0.56	1.39

Note: T-Trace

Total for Year : 13.87 inches

# 1956-2018

## 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



# 1956-2018

## MONTHLY RAINFALL AT COOLIDGE DAM

Inches

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
<b>2007</b>	1.45	0.85	1.08	0.05	0.00	0.00	2.11	2.09	0.24	0.15	2.70	2.67	<b>13.39</b>
<b>2008</b>	2.60	1.89	0.70	0.00	1.41	0.00	2.49	3.80	0.10	0.06	0.91	2.23	<b>16.19</b>
<b>2009</b>	1.72	1.34	0.30	0.63	0.84	0.32	2.98	0.03	0.57		0.14	1.88	<b>10.75</b>
<b>2010</b>	5.99	2.05	1.30	0.20	0.00	0.05	2.92	1.17	0.47	0.82	0.05	2.10	<b>17.12</b>
<b>2011</b>	0.00	0.54	0.26	0.42	0.11	0.06	3.07	2.07	1.44	0.27	0.67	2.85	<b>11.76</b>
<b>2012</b>	0.85	0.17	0.72	0.38	0.00	0.00	4.05	1.69	2.49	0.00	0.57	2.59	<b>13.51</b>
<b>2013</b>	1.76	0.72	0.80	0.37	0.00	0.18	2.15	1.31	1.18	0.20	1.41	0.24	<b>10.32</b>
<b>2014</b>	0.00	0.11	0.96	0.06	0.00	0.00	2.08	1.93	2.77	1.21	0.00	2.12	<b>11.24</b>
<b>2015</b>	1.88	0.05	0.69	0.60	0.48	0.75	1.54	2.59	1.96	2.70	1.75	1.43	<b>16.42</b>
<b>2016</b>	2.52	0.00	0.01	0.55	0.25	0.71	1.20	1.31	1.75	0.84	2.79	3.07	<b>15.00</b>
<b>2017</b>	2.11	0.49	0.01	0.00	0.22	2.56	4.99	0.29	0.08	0.00	0.00	0.36	<b>11.11</b>
<b>2018</b>	0.35	2.23	0.07	0.00	0.23	0.41	3.03	1.84	0.42	3.34	0.56	1.39	<b>13.87</b>

# BROWN & BROWN LAW OFFICES, P.C.

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OF ATTORNEYS

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*of counsel*  
DOUGLAS E. BROWN

February 14, 2019

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

Secretary of Interior  
Department of 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 & General Counsel  
San Carlos Irrigation & 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



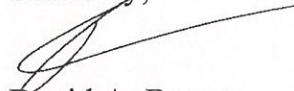
Re: 2018 annual report  
February 14, 2019  
Page 2

Re: 2018 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 2018."

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 2018

### Franklin Irrigation District

TBI (acres)	2,566.70
Surface Water (AF)	
JAN	232.00
FEB	122.96
MAR	530.48
APR	225.00
MAY	98.00
JUN	0.00
JUL	185.00
AUG	305.00
SEP	171.00
OCT	87.00
NOV	121.00
DEC	61.00
FID Total SW	2,138.44
Pumped Water (AF)	
Quarter I	1,319.87
II	5,293.59
III	3,133.72
IV	318.95
FID Total PW	10,066.13
FID Total Water (AF)	12,204.57
FID Water Duty (AF/A)	4.75

### Gila Valley Irrigation District

TBI (acres)	22,729.40
Surface Water (AF)	
JAN	1,179.00
FEB	887.00
MAR	11,512.00
APR	6,362.00
MAY	1,184.00
JUN	1,792.00
JUL	6,023.00
AUG	9,199.00
SEP	3,991.00
OCT	543.00
NOV	709.00
DEC	2,749.00
GVID Total SW	46,130.00
Pumped Water (AF)	
Quarter I	15,137.09
II	35,463.64
III	29,298.47
IV	898.83
GVID Total PW	80,798.03
GVID Total Water (AF)	126,928.03
GVID Water Duty (AF/A)	5.58

### Arizona Irrigation Districts Totals

TBI (acres)	25,296.10
Surface Water (AF)	48,268.44
Pumped Water (AF)	90,864.16
Total Water (AF)	139,132.60
Water Duty (AF/A)	5.50