

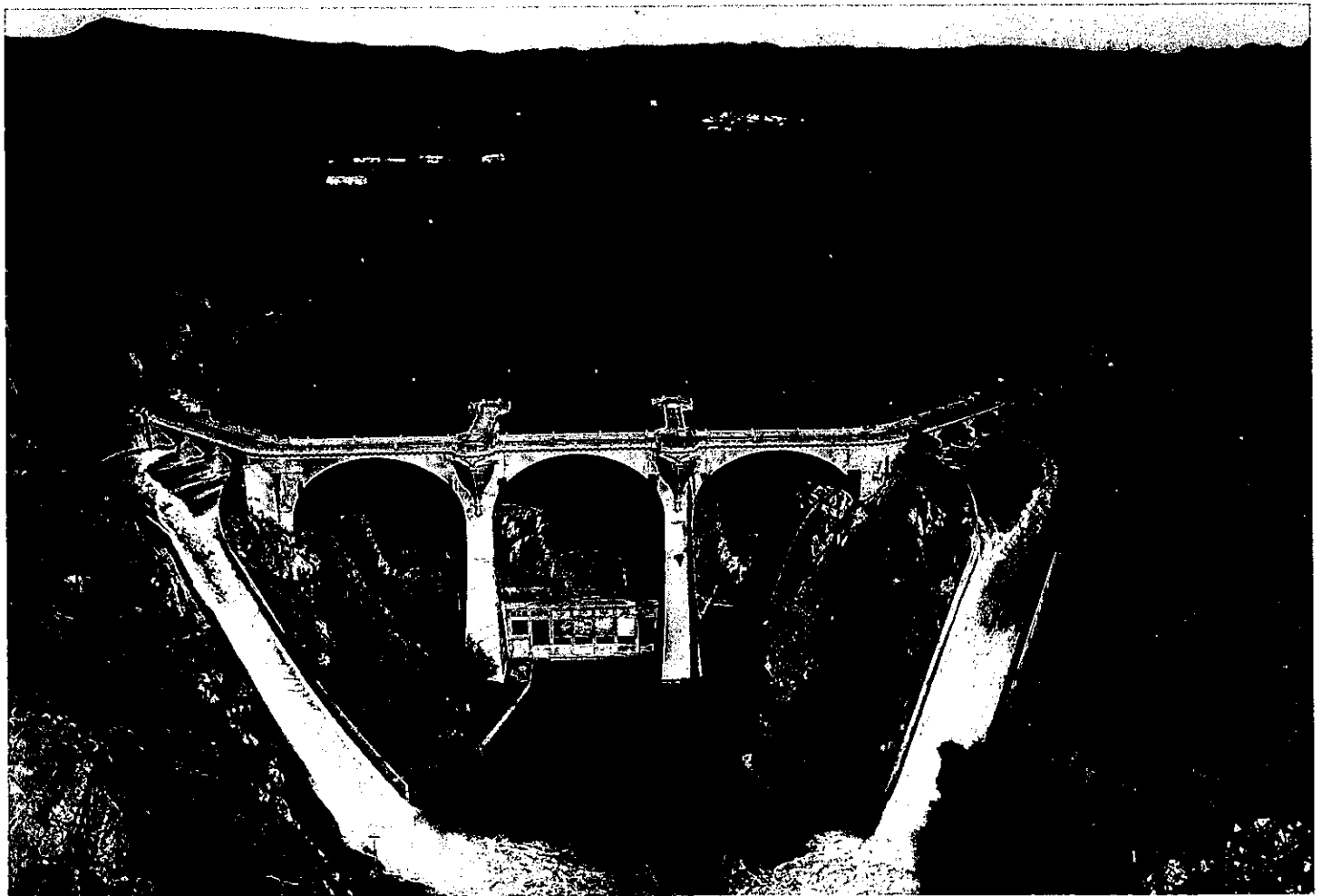
Sixty - Third Annual Report

Distribution of Waters of The Gila River

BY THE
GILA WATER COMMISSIONER
DON L. WEESNER

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

1998



SIXTY-THIRD ANNUAL REPORT

1998

DISTRIBUTION OF WATERS OF THE GILA RIVER

by the

GILA WATER COMMISSIONER

D.L. WEESNER

to the

UNITED STATES DISTRICT COURT

Phoenix, Arizona
June 6, 1999

Honorable John C. Coughenour
Judge of the United States District Court
Tucson, Arizona

No. E-59 Globe
Re: United States of America
vs.
Gila Valley Irrigation District, et al.

Dear Judge Coughenour:

I submit herewith the **Sixty-Third Annual Report** in the above-entitled cause on distribution of waters of the Gila River, tabulation of hydrologic data, and analysis of expenditures and collections for the calendar year 1998.

Very Truly yours,

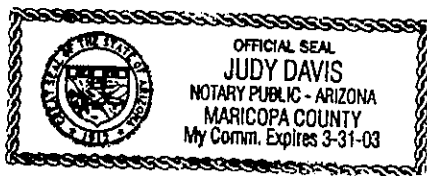

Don L. Weesner
Gila Water Commissioner

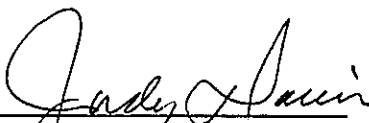
State of Arizona)
) ss:
County of Maricopa)

I, Don L. Weesner, 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 1998, 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 1998.


Don L. Weesner
Gila Water Commissioner

Subscribed and sworn to before me this 9th day of June, 1999.




Notary Public

My commission expires:

OFFICE OF THE
GILA WATER COMMISSIONER

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PHOENIX, ARIZONA 85028

DON L. WEESNER
COMMISSIONER

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UNITED STATES OF AMERICA
vs.
GILA VALLEY IRRIGATION DISTRICT
ET. AL E-59 GLOBE

**GILA WATER COMMISSIONER'S SUMMARY
AND COMMENTS FOR 1998**

Surface water flows for 1998 were below normal for the year. Available storage on January 1, 1997, at San Carlos Reservoir was 92,793 acre-feet and ended on December 31, 1998, with storage at 77,178 less the minimum pool of 12,110 for a total of 65,060 acre-feet available for apportionment.

On August 20, 1997, the Court issued an Order titled "**Water Available as a Basis of Apportionment.**" This Order created a minimum pool in the San Carlos Reservoir. The minimum pool water stored **will not** be considered in future apportionments to the UVD'S. This pool was established by using "Exchange Waters" from the CAP water in the lower Valleys. The minimum pool maximum storage was on October 5, 1997, at 16,556 acre-feet.

The minimum pool storage on December 31, 1998, was 12,110 acre-feet.

The peak flows of the Gila River recorded by the USGS in 1998 at Safford, Arizona, occurred on March 28, 1998, at a flow rate of 3,160 cfs.

The total recorded sluice and spill for 1998 at Ashurst-Hayden Dam were estimated by SCIP at 8,858 acre-feet.

Consumptive use, as defined by the Gila Decree, was at 60,272 acre-feet on December 31, 1998.

The Office of the Gila Water Commissioner implemented phase V of the water measurement and telemetry system for the Upper Valleys' and ASARCO in the Winkelman Valley during 1998.

The telemetry system allows the Commissioner's Office to interrogate the recorders at any time for instantaneous flows at these sites for verification of quantity of water being diverted. This will be an ongoing six (6) year program to install thirteen (13) sites. As of this date, twelve (12) stations have been installed and are operational. During 1998 the Commissioner's office installed telemetry (Satellite) at Colvin Jones canal company and the Dodge Nevada (Radio) canal companies.

The Commissioner requested in 1997 that ASARCO install telemetry at its pumping sites at Kearny Arizona as the Commissioner was unable to receive direct readings on the diversions by ASARCO. ASARCO complied during 1998 and the installations at five (5) sites were completed in December of this year. The ASARCO sites utilize telemetry via satellite communications (ORB COM) furnished by the Salt River Project (SPATIA) such that the Commissioner's Office can receive hourly diversion data on a daily basis directly from the sites.

During the November 1994 trial, Judge Coughenour ordered the implementation of a "CALL SYSTEM" to begin on January 1, 1995. This system was formally instituted and made operational on January 1, 1995. The first status report by the Commissioner on the operation of the "Call System" was submitted to the Court on September 25, 1995. The second status report by the Commissioner on the operation of the "Call System" was submitted to the Court on March 27, 1996. The third status report by the Commissioner on the operation of the "Call System" was submitted to the Court on November 21, 1996. The fourth and final status report by the Commissioner on the operation of the "Call System" was submitted to the Court on September 12, 1997. This report was submitted as a notice of the ***"Gila Water Commissioner's decision to adopt Call System version 5.21."*** This was followed by a complaint filed by the Gila River Indian Community and a motion for a hearing was filed by the United States.

The call system proposals and issues related thereto were heard by the Federal Court on October 5, through October 7, 1998 in Tucson, Arizona. The Court's decision was filed on March 15, 1999.

The problems of the USGS gaging stations being unavailable or out of service has continued throughout 1998 as was the case since 1994. This continuing problem has an impact on the "Call System." The Commissioner is continuing to meet and work with the USGS in an attempt to remedy this problem.

Pursuant to the Phase IV Memorandum and Order entered on April 14, 1995, the Court issued a Water Quality Injunction filed on June 3, 1996, to ensure that the San Carlos Apache Tribe receives quality water to take effect on March 1, 1997. The Commissioner was directed to establish a water quality and flow measuring station at a location as close as possible to the San Carlos Apache Tribe's eastern Reservation

boundary. This was implemented on March 1, 1997, by taking readings by hand until July 12, 1997, when the construction of the Geronimo Station was completed and put on line.

Throughout the 1998 year the Commissioner did not receive complete and timely monthly farm reports from the Apache Tribe. Several letters were sent to the tribe requesting that they comply with the water quality injunction and the call system as prescribed by the Court. The Commissioner filed a petition to the Court in January, 1999, requesting guidance from the Court.

The Commissioner found several violations of the "then being irrigated" (TBI) requirements within the upper and lower valleys that fall under the Gila Decree. These violations and resolutions will be covered in a separate section of this 1998 annual report.



Don L. Weesner
Gila Water Commissioner

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ok

PERSONNEL

Don L. Weesner, Gila Water Commissioner	Phoenix, Arizona
Jon W. Allred, Assistant Water Commissioner	Safford, Arizona
James W. Pavlacky, Water Specialist	Safford, Arizona
Waylon D. West, Water Specialist	Thatcher, Arizona

SOURCES OF DATA

Stream flow data of the Gila River and tributaries, and the San Carlos Reservoir data, except evaporation and rainfall at San Carlos Reservoir, are provided by the United States Geological Survey, Water Resources Division. Nick B. Melcher is the District Chief.

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.zekes.com/~water/>

Evaporation and rainfall recorded at San Carlos Reservoir are provided by San Carlos Irrigation Project. Ralph Esquerra is the Project Engineer.

Robert Carolin Actin

The vicinity of Coper Crossing, in Duncan Valley, Arizona, is monitored daily, during periods that the Gila River is not flowing. The observer of that location is Ray Tyler, or his 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, by necessity, follows the natural geographical divisions of the Gila Valley. Decreed acreage for each is as follows:

Duncan-Virden division, known as **Duncan Valley**, includes lands in Hidalgo County, New Mexico and Greenlee County, Arizona, to the extent of 8,061.35 acres;

Safford Valley, comprises lands in Graham County, Arizona, outside of the San Carlos Reservation, to the extent of 32,512.4 acres; **San Carlos Agency**, above the San Carlos Reservoir boundary with 1,000 acres of rights; **Winkelman Valley**, in Gila and Pinal Counties, Arizona, consists of 1,335.16 decreed acres, of which 440.43 acres have diversion rights from the Gila River, and 894.73 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 102,090.5 acres as follows:

<u>San Carlos Project</u>	<u>Acres</u>
San Carlos Irrigation & Drainage District	50,000
Indian Lands	50,000
Natural Flow Lands	1,544.5
Federal Agencies	546
	102,090.5

The **Gila Crossing District**, under the Pima Agency at Sacaton, Arizona, has return flow rights for 2,992.5 acres.

The Total acreage under the Decree amounts to 147,991.91 acres.

DISTRIBUTION OF WATERS

January 1, 1998⁹ the stored water in the San Carlos Reservoir amounted to 92,970^{11,178} acre-feet of the 877,697 acre-feet total capacity. December 31, 1998⁹, there was 77,340^{72,760} acre-feet available stored water, at ~~87~~⁸¹ percent of total capacity.

There was apportioned to the **Upper Valleys** for the year 1998, a total of 5.94^{2.31} acre-feet of water for each acre then being irrigated.

The **San Carlos Irrigation Project** apportioned a total of 1.66 acre-feet of pumped and stored water for each acre. The gravity diversions of both natural flow and stored water are shown on Plate ~~30~~³¹.

The total water diverted from the Gila River under the Decree for the year amounted to 473,419^{247,626} acre-feet.

Mean daily diversions of apportioned and priority water for each canal in the Duncan, Safford, Winkelman Valleys, and industrial diversions by ASARCO Incorporated are shown on plates ~~7~~^{6 to 29} to ~~28~~.

Determination of when priority water was available is shown on plate ~~31~~³².

WATER SUPPLY

^{205,309} The flow of the Gila River, as recorded at **Gila River at Head of Safford Valley Near Solomon**, was ~~339,566~~ ^{314,338} acre-feet. Inflow into the San Carlos Reservoir from the Gila River and the San Carlos River totaled ~~314,338~~ ^{139,750} acre-feet.

For the year 1998, there was a total of ~~8,858~~ ⁷⁴⁶ acre-feet of water spilled and sluiced at **Ashurst-Hayden Dam**.

COSPER CROSSING

The Gila River was found to be dry in the vicinity of Cosper Crossing between June 24 and October 30, 1998 on three different occasions. During these dry periods of time, the total flow of the Gila River above Cosper Crossing was issued to the Virden - Duncan Valley water users.

Date	Vicinity Status	Verification
6/24	DRY	OBSERVED
7/11	FLOW	REPORTED
7/20	DRY	OBSERVED
7/23	FLOW	OBSERVED
10/06	DRY	REPORTED
10/30	FLOW	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:

1998	Gila River below Blue Creek (good)*	San Francisco River at Clifton (good)*	Total	Gila at Calva (poor)*	Consumptive use	Accumulated Consumptive use
Jan.	11,522	8,182	19,704	22,247	-2,543	-2,543
Feb.	17,988	12,155	30,143	28,558	1,585	-958
Mar.	52,345	48,346	100,691	81,320	19,371	18,412
Apr.	40,463	32,212	72,675	71,694	981	19,394
May	16,925	15,971	32,896	28,923	3,973	23,367
Jun.	5,839	3,695	9,534	6,859	2,675	26,042
Jul.	8,388	7,539	15,927	6,891	9,036	35,078
Aug.	7,916	6,272	14,188	5,883	8,305	43,383
Sept.	3,911	3,697	7,608	1,845	5,763	49,146
Oct.	4,495	3,838	8,333	1,855	6,478	55,624
Nov.	6,903	4,905	11,808	7,950	3,858	59,482
Dec.	7,394	5,716	13,110	12,320	790	60,272
Totals	184,089	152,528	336,617	376,345	60,272	60,272

1998

**UPPER VALLEYS
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.

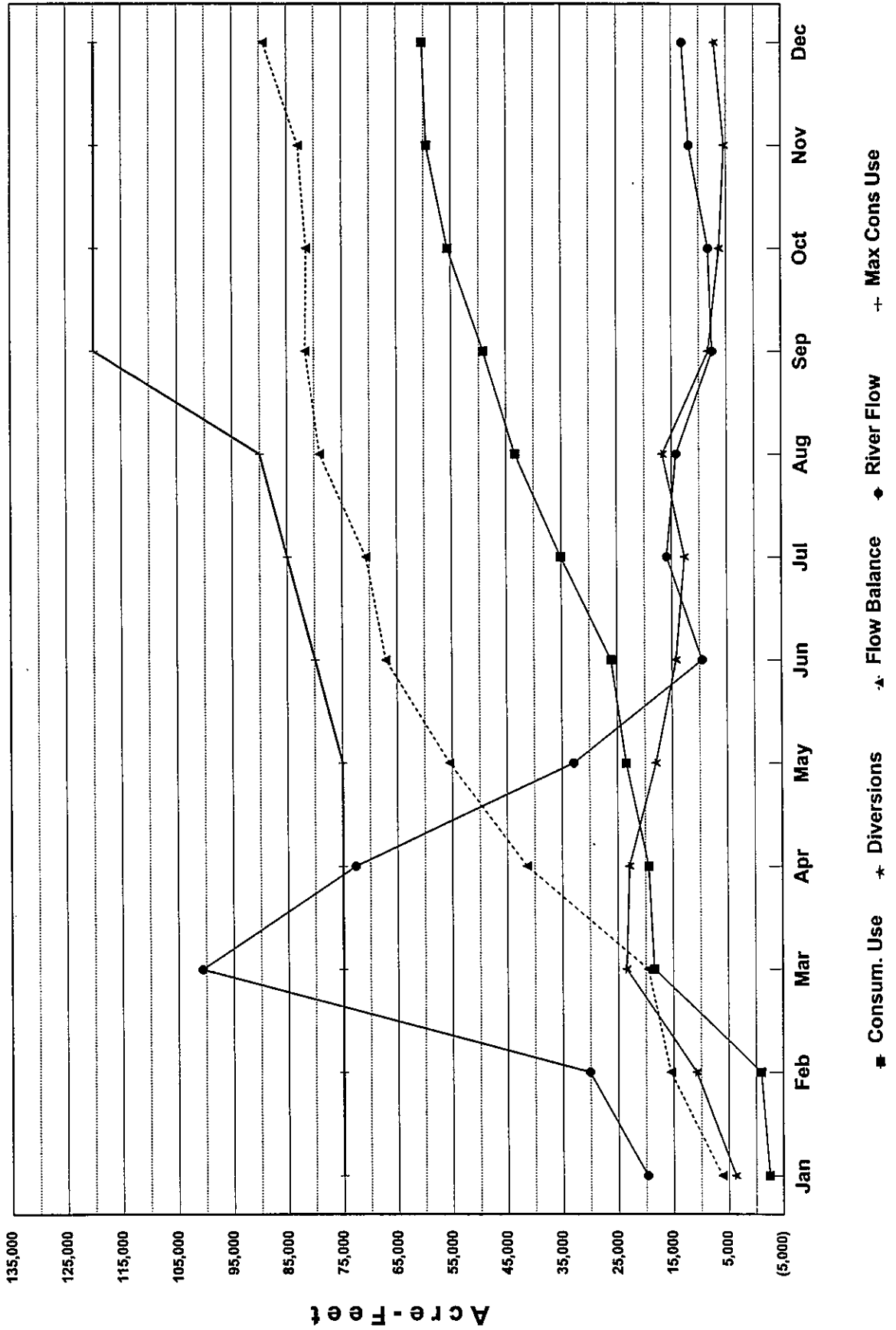
Input data rounded to USGS standards - IN ACRE-FEET

1998 MONTH	CONSUMPTIVE USE		UPPER VALLEYS AND SAN CARLOS APACHE TRIBE		HEAD OF SAFFORD VALLEY		FLOW BALANCE					ACCUM. FLOW BALANCE	TOTAL INFLOW G + SF	MAXIMUM CONSUMPTIVE USE RECOMMENDED
	RESULT	ACCUM. RESULT	DIV'S	ACCUM. DIV'S	GILA RIVER FLOW	GILA R. ACCUM. FLOW	FLOW BALANCE	GILA CALVA	GILA VIRDEN	SAN FRANCISCO CLIFTON	DIV'S			
JAN	(2,550)	(2,550)	3,700	3,700	24,230	24,230	6,250	22,250	11,520	8,180	3,700	6,250	19,700	75,000
FEB	1,580	(970)	10,810	14,510	35,490	59,720	9,230	28,560	17,990	12,150	10,810	15,480	30,140	75,000
MAR	19,370	18,410	23,420	37,930	102,880	162,600	4,050	81,320	52,340	48,350	23,420	19,530	100,690	75,000
APR	980	19,390	22,880	60,810	66,280	228,880	21,900	71,690	40,460	32,210	22,880	41,430	72,670	75,000
MAY	3,980	23,370	18,000	78,810	27,160	256,040	14,020	28,920	16,930	15,970	18,000	55,450	32,900	75,000
JUN	2,680	26,040	14,270	93,080	7,540	263,580	11,590	6,860	5,840	3,700	14,270	67,040	9,540	80,000
JUL	9,040	35,080	12,640	105,720	20,970	284,550	3,600	6,890	8,390	7,540	12,640	70,640	15,930	85,000
AUG	8,310	43,380	16,680	122,410	14,530	299,080	5,860	5,860	7,920	6,270	16,680	79,010	14,190	90,000
SEP	6,760	49,140	8,340	130,750	6,510	305,590	2,580	1,850	3,910	3,700	8,340	81,590	7,610	120,000
OCT	6,480	55,620	6,270	137,020	7,090	312,680	(210)	1,850	4,490	3,840	6,270	81,380	8,330	120,000
NOV	3,860	59,480	5,370	142,400	11,790	324,480	1,510	7,950	6,900	4,910	5,370	82,890	11,810	120,000
DEC	790	60,270	7,160	149,550	15,090	339,570	6,370	12,320	7,390	5,720	7,160	89,260	13,110	120,000
TOTALS	50,270		149,550		339,570		89,260	276,340	184,090	152,530	149,550		336,620	
Graph			Diversions							Graph		Flow Bal	River Flo	Max Cons Use

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

1998

Consumptive Use Accum vs. Diversions vs. River Flow



1998
MONTHLY RIVER FLOWS AND DIVERSIONS, GILA RIVER SYSTEM
 Quantities in Acre-feet

	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	TOTAL
Gila Blue	11522	17988	52345	40463	16925	5839	8388	7916	3911	4495	6903	7394	184089
Duncan Valley Diversions	88	721	3094	3985	4158	2492	1422	1472	1087	1964	1633	1225	23592
Gila River near Clifton	12528	16673	55851	40418	14926	4185	10265	8862	3184	3049	7958	8771	188670
San Fran. River @ Clifton	8182	12155	48346	32212	15971	3695	7539	6272	3697	3838	4905	5716	152528
Gila Solomon	24228	35491	102878	66285	27160	7537	20974	14529	6514	7093	11788	15088	339565
Safford Valley Diversions	3613	10085	20328	18911	13822	11764	11217	14937	7253	4293	3714	5917	125856
San Carlos Agency Divs.			2	1	22	19	1	4	4	10	28	14	105
Gila Calva	22247	28558	81320	71694	28923	6859	6891	5883	1845	1855	7950	12320	276345
San Carlos River @ Peridot	2188	16546	8107	5978	1144	510	329	873	414	403	531	962	37985
Stored Water	114600	161200	221300	270600	257900	215400	167400	113800	85790	77690	83380	77340	
Gila Below Coolidge Dam	5834	1354	27012	22509	37825	41120	50887	54374	25972	8722	2416	18617	296642
Winkelman Divs. (Indust)	832	774	789	929	1159	1237	1346	1106	826	861	1064	911	11834
Winkelman Divs. (Ag.)	5	23	72	93	85								320
Gila River @ Kelvin	7492	20414	33097	30044	37585	42772	54152	59590	26702	9370	3493	20198	344909
A-H Diversions	7039	14940	32049	24340	33904	38258	49808	57254	26757	7494	675	19194	311712
A-H Spilled		4743						331		2263	1069	83	8489
A-H Sluiced							369						369
A-H Total	7039	19683	32049	24340	33904	38258	50177	57585	26757	9757	1744	19277	320570
Loss Kelvin to A-H	453	731	1048	5704	3681	4514	3975	2005	-55	-387	1749	921	24339
Sacaton Diversions													0

SUMMARY OF THE GILA RIVER SYSTEM

Quantities in Acre-feet

NATURAL FLOW FROM THE GILA RIVER AND TRIBUTARIES

Gila River Below Blue Creek	90,702	184,089
San Francisco River at Clifton	105,387	152,528
San Carlos River near Peridot	11,953	37,985
Gain from Gila Below Coolidge Dam to Gila at Kelvin	19,243	48,267

INFLOWS, SAN CARLOS RESERVOIR

Gila River at Calva plus San Carlos River near Peridot	139,780	314,330
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GILA RIVER BELOW COOLIDGE DAM

	105,588	296,642
--	---------	---------

CONTENTS IN STORAGE, SAN CARLOS RESERVOIR

Available contents January 1, 1998	77,340	92,970
Available contents December 31, 1998	107,600	77,340

WATER DIVERTED FROM THE GILA RIVER

Duncan-Virden Valley canal diversions	23,774	23,592
Safford Valley canal diversions	104,549	125,856
San Carlos Apache Tribe	623	105
Winkelman Valley Agricultural diversions	451	320
Winkelman Valley industrial and municipal pumps		
ASARCO Incorporated	11,826	11,426
Town of Kearny	378	408
San Carlos Project		
Natural flow Ashurst-Hayden Dam	65,358	159,942
Stored water Ashurst-Hayden Dam	41,667	151,770
Natural flow Sacaton Dam	0	0
TOTAL DIVERSIONS	247,426	473,419

SPILLED AND SLUICED ASHURST-HAYDEN DAM

	746	8,858
--	-----	-------

SAN CARLOS RESERVOIR

The available stored water in the **San Carlos Reservoir** on January 1, 1998, was ⁹⁹ ~~92,970~~ ^{77,340} acre-feet. The maximum storage for the year was on ~~May 3~~ ^{Feb 5,} with ~~271,300~~ ^{24,730} acre-feet (Plate ~~50~~ ⁴³).

Small flows recorded at **Gila River below Coolidge Dam** (Plate ~~42~~ ⁴⁵), when no water is being released are disregarded and are not shown on Determination of Priority (Plate ~~31~~ ³²), Natural Flow Releases (Plate ~~43~~ ⁴⁴), Stored Water Releases (Plate ~~44~~ ⁴⁷), and Mass Diagram of Storage Factors (Plate ~~47~~ ⁴⁸).

The computed evaporation from the surface of the **San Carlos Reservoir** was ~~34,402~~ ^{40,9130} acre-feet (Plate ~~51~~ ⁵²). Computed rainfall on the lake was ~~7,709~~ ^{2,775} acre-feet (Plate ~~52~~ ⁵³). There was a bank storage of ~~6,925~~ ^{23,944} acre-feet for the year (Plate ~~46~~ ⁴⁷).

APPORTIONMENTS MADE DURING 1998

The following apportionments were made to the "**Upper Valleys**" under authority contained in Article VIII of the decree, and to the Winkelman Valley under authority contained in article IX and X of the Decree:

	Date	TBI Acreage	Acre-feet per acre	Accumulated apportionment	Re-Allocation
1	1/1/98	25,307.23	2.50	2.50	0.00
2	2/1/98	32,696.03	.03	2.53	0.00
3	3/1/98	33,460.80	1.03	3.56	0.00
4	4/1/98	34,059.57	1.09	4.65	0.00
5	5/4/98	34,169.51	1.30	5.95	0.00
5 Re-allocated	6/1/98	34,212.99			-0.01
TOTALS					5.94

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	02/11/98	100,546.00	0.80	0.80	45,565.53	1.765
2	03/09/98	100,546.00	0.43	1.23	51,185.00	2.416
3	04/22/98	100,546.00	0.25	1.66	56,308.99	2.964
TOTALS				1.66	57,933.07	2.881

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 are available in Commissioners office:

Date	Acre-feet
January 1, 1998	15,771 ac-ft
January 31, 1998	15,596 ac-ft
February 28, 1998	15,425 ac-ft
March 31, 1998	15,185 ac-ft
April 30, 1998	14,903 ac-ft
May 31, 1998	14,527 ac-ft
June 30, 1998	14,080 ac-ft
July 31, 1998	13,641 ac-ft
August 31, 1998	13,186 ac-ft
September 30, 1998	12,777 ac-ft
October 31, 1998	12,443 ac-ft
November 30, 1998	12,261 ac-ft
December 31, 1998	12,110 ac-ft

PHELPS DODGE MORENCI, INCORPORATED

Provisional records of pumped flow from Black River and Eagle Creek wells by the Phelps Dodge Corporation as compiled by the United States Geological Survey show the following information with quantities given in acre-feet.

1998	NET BLACK RIVER WATER PUMPED	NET UPPER EAGLE CREEK WATER PUMPED	TOTAL IMPORTED WATER PUMPED	TOTAL P. D. PUMPING FROM S.F. RIVER & EAGLE CREEK BASIN	TOTAL GILA WATERS PUMPED BY PHELPS DODGE
January	719	484	1,203	1,798	595
February	648	567	915	1,660	745
March	697	427	1,124	1,665	541
April	979	446	1,425	1,450	25
May	888	622	1,510	1,568	58
June	767	711	1,478	1,529	51
July	515	1,470	1,985	1,944	
August	884	914	1,798	1,862	64
September	613	1,188	1,801	1,821	20
October	285	1,200	1,485	1,554	69
November	670	598	1,268	1,518	250
December	681	688	1,369	1,839	470
TOTALS	8,346	9,015	1,7361	2,0209	2,888
Bypass					0
TOTAL					2,888

Note: There was a slight difference between the data furnished by P. D. and the data furnished by U.S.G.S.

This shows that **2,888 acre-feet** of water in excess of that brought in from Black River and Eagle Creek wells was pumped by Phelps Dodge Morenci from the tributary drainage of the Gila River.

GERONIMO STATION 1997

As stipulated by the Court in its Injunction filed June 6, 1996, the Commissioner's office on March 7, 1997 began taking water quality samples and making stream flow estimates at the site selected for the Geronimo Station. During the month of May 1997 construction on the Geronimo Station commenced and on July 11, 1997 was placed into service. Daily water quality sampling and flow measurements were begun at this time. During the irrigation season of March 1 through October 31, 1997, the final seasonal average salinity at the Geronimo Station was computed to be **2,236 uS/cm** (microsiemens per centimeter).

The commissioner was also instructed to make a comparison between the water quality and stream flow at the Geronimo Station to the water quality and stream flow at the Eastern Boundary of the San Carlos Reservation. This comparison was made and the Commissioner has concluded that the water quality and stream flows are comparable. His conclusion was based on the following data:

Geronimo Station EC Average	=	2,283.4 uS/cm
Reservation boundary EC Average	=	2,272.4 uS/cm
EC @ reservation Boundary	=	0.48% lower than Geronimo
Geronimo Station flow average	=	288.9 cfs
Reservation Boundary flow average	=	284.3 cfs
Flow @ Reservation	=	1.59% less than Geronimo

Daily data in support of the above figures can be found published in the Water Commissioner's 1997 monthly reports or can be seen at the office of the Gila Water Commissioner.

GERONIMO STATION 1998

The Seasonal Average Salinity on October 31, 1998 was **2,110 uS/cm**. Daily data in support of the above figures can be found published in the Water Commissioner's 1998 monthly reports or can be seen at the office of the Gila Water Commissioner

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 1998 have been supplied to the Water Commissioner and summarized on **Plate 6** of the 1998 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 though out the year of 1998. A summary of those audits can be found on **Plate 3** of the 1998 yearly report. Any actions taken and penalties consented to for violations of the TBI regulations can be found on **Page 10** of the 1998 annual report.

FILED _____ LODGED _____
RECEIVED _____ COPY _____
OCT 22 1998
CLERK U S DISTRICT COURT
DISTRICT OF ARIZONA
BY _____ DEPUTY

1 GILA WATER COMMISSIONER
2 Donald L. Weesner
3 2338 E. Cheryl Dr.
4 Phoenix, AZ 85028
5 Telephone (602) 867-1074

6 UNITED STATES DISTRICT COURT
7 DISTRICT OF ARIZONA

8 UNITED STATES OF AMERICA,
9 Plaintiff,
10 and
11 GILA RIVER INDIAN COMMUNITY,
12 Plaintiff in
13 Intervention,
14 and
15 SAN CARLOS APACHE TRIBE,
16 Plaintiff in
17 Intervention,
18 Vs.
19 GILA VALLEY IRRIGATION
20 DISTRICT, ET AL.,
21 Defendants.

GLOBE EQUITY NO. 59 (JCC)
WRITTEN SUMMATION OF ACTION
TAKEN BY THE GILA WATER
COMMISSIONER AND THE PENALTIES
CONSENTED TO BY LAND OWNERS
IN VIOLATION OF THE REGULATIONS FOR
REPORTING LANDS THEN BEING
IRRIGATED (TBI)
(Assigned to the Honorable
John C. Coughenour)

21 The Court entered the Final Memorandum and Order, in this matter on September 18,
22 1992 and a Phase IV Memorandum and Order on April 14, 1995 which ordered that TBI
23 regulations be adopted. These regulations were approved by the Court by its order dated
24 June 3, 1996. These regulations require the Commissioner to make periodic audits of lands
25 to determine if any reporting violations have occurred. The Commissioner is authorized and
26 empowered by these regulations to informally resolve violations as outlined in §4.2 of the
27 Regulations.
28

1 A written summation of the action taken by the Commissioner and the penalty
 2 consented to shall be filed with the Court within sixty (60) days thereof and shall be included
 3 in the monthly report next published by the Commissioner after such sixty (60) days has
 4 elapsed and in the annual report filed with the Court. A copy of the cease and desist order
 5 and consent thereto shall be kept in the records of the Commissioner for three (3) years from
 6 the date of filing with the Court. Pursuant to the Commissioner's audit of lands within the San
 7 Carlos Irrigation and Drainage District (SCIDD) violations of the TBI regulations were
 8 determined and resolved as set forth below.

9 The following is a summary of violations that have been resolved and the penalties agreed
 10 upon:

11 **SUMMARY**

12 1. Date of Informal Resolution Meeting @ the Office of SCIDD was September 15, 1998
 13 @ 9:00 am.

14	ERICA, INC.	Mr. Max Nichols Tenant
15	ACCOUNT #	6636-3
16	VIOLATION	41.8 Acres
17	N.F. DUTY for this Account	0.13 AcFt/Ac
18	PAYBACK	5.4 Ac-Ft
19	PENALTY	2.7 Ac-Ft
20	TOTAL PAYBACK & PENALTY	8.1 Ac-Ft

21 The payback and penalty will commence on the next irrigation using **natural flow** (N.F.)
 22 either in 1998 or 1999. A Cease and Desist Order was signed and a supplemental form was
 23 also submitted to the Gila Water Commissioner removing the lands not TBI.

24 2. Date of Informal Resolution Meeting @ the Office of SCIDD was September 15, 1998
 25 @ 9:45 am.

26	Mr. Charles Lawrence	Landowner
27	ACCOUNT #	764-34
28	VIOLATION	57.3 Acres
	N.F. DUTY for this Account	0.27 AcFt/Ac
	PAYBACK	15.5 Ac-Ft
	PENALTY	7.8 Ac-Ft
	TOTAL PAYBACK & PENALTY	23.3 Ac-Ft

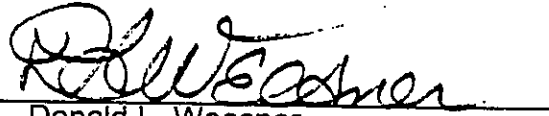
1 The payback and penalty will commence on the next irrigation using **natural flow** (N.F.)
2 either in 1998 or 1999. A Cease and Desist Order was signed and a supplemental form was
3 also submitted to the Gila Water Commissioner removing the lands not TBI.

4 3. Date of **Informal Resolution Meeting** @ the Office of SCIDD was September 15, 1998
5 @ 10:30 am.

6	Ms. Eldora Curry	Mr. Paul Ollerton Tenant
7	ACCOUNT #	6726-2
8	VIOLATION	5.4 Acres
9	N.F. DUTY for this Account	0.32 AcFt/Ac
	PAYBACK	1.7 Ac-Ft
	PENALTY	0.9 Ac-Ft
	TOTAL PAYBACK & PENALTY	2.6 Ac-Ft

10 The payback and penalty will commence on the next irrigation using **natural flow** (N.F.)
11 either in 1998 or 1999. A Cease and Desist Order was signed and a supplemental form was
12 also submitted to the Gila Water Commissioner removing the lands not TBI.

13 Respectfully submitted this 21st day of October, 1998.

14
15 
16 _____
17 Donald L. Weesner
18 Gila Water Commissioner

19 **ORIGINAL and one copy** of the
20 foregoing mailed this 21st day
21 of October, 1998, to:

22 William M. McCool
23 Chief Deputy Clerk
24 United States District Court
25 44 East Broadway
26 Tucson, Arizona 85701

27 **TWO COPIES** of the foregoing
28 mailed via First Class Mail

this 21st day of October, 1998 to:

The Honorable John C. Coughenour
609 Federal Courthouse
1010 Fifth Avenue
Seattle, WA. 98104

C:\wpwin61\Docs\court\98Audit1 scc

1 GILA WATER COMMISSIONER
Donald L. Weesner
2 2338 E. Cheryl Dr.
Phoenix, AZ 85028
3 Telephone (602) 867-1074
4
5

FILED _____ LODGED _____
RECEIVED _____ COPY _____
MAR 22 1999
CLERK U S DISTRICT COURT.
DISTRICT OF ARIZONA
BY _____ DEPUTY

6 UNITED STATES DISTRICT COURT
7 DISTRICT OF ARIZONA

8 UNITED STATES OF AMERICA,
9 Plaintiff,

10 and

11 GILA RIVER INDIAN COMMUNITY,
12 Plaintiff in
Intervention,

13 and

14 SAN CARLOS APACHE TRIBE,
15 Plaintiff in
Intervention,

16 Vs.

17 GILA VALLEY IRRIGATION
18 DISTRICT, ET AL.,

19 Defendants.
20

GLOBE EQUITY NO. 59 (JCC)

REPORT NUMBER 2 - 98 OF
ACTIONS TAKEN BY THE GILA WATER
COMMISSIONER AND THE PENALTIES
CONSENTED TO BY LAND OWNERS
IN VIOLATION OF THE REGULATIONS
FOR REPORTING LANDS THEN BEING
IRRIGATED (TBI) 1998

(Assigned to the Honorable
John C. Coughenour)

21 The Court entered the Final Memorandum and Order in this matter on September 18,
22 1992 and a Phase IV Memorandum and Order on April 14, 1995 which ordered that TBI
23 regulations be adopted. These regulations were approved by the Court by its order dated
24 June 3, 1996. These Regulations require the Commissioner to make periodic audits of lands
25 to determine if any reporting violations have occurred. The Commissioner is authorized and
26 empowered by these regulations to informally resolve violations as outlined in §4.2 of the
27 Regulations.
28

1 A written summary of the action taken by the Commissioner and the penalty consented
2 to shall be filed with the Court within sixty (60) days thereof and shall be included in the
3 monthly report next published by the Commissioner after such sixty (60) days has elapsed and
4 in the annual report filed with the Court. A copy of the notification to the landowners and the
5 cease and desist orders and consents thereto shall be kept in the records of the
6 Commissioner for three (3) years from the date of filing with the Court. Pursuant to the
7 Commissioner's audit of lands within the Decreed Lands, violations of the TBI regulations
8 were determined and resolved as set forth below.

9 The following is a summary of violations that have been resolved and the penalties
10 agreed upon: **SUMMARY**

11 1. Date of **Informal Resolution Meeting** @ the Office of Snell & Wilmer on November
12 2, 1998 @ 10:00 am.

13	BHP Copper Inc.	Terry Bro's Farms, Tenant
14	ACCOUNT #	4927-33 & 4934-21
15	VIOLATION	17.6 Acres
16	N.F. DUTY for this Account	1.61 Ac-Ft/Ac
17	PAYBACK	28.3 Ac-Ft
18	PENALTY	<u>14.2 Ac-Ft</u>
19	TOTAL PAYBACK & PENALTY	42.5 Ac-Ft

20 The payback and penalty will commence on the next irrigation using **natural flow** (N.F.)
21 in 1999. A Cease and Desist Order was issued by the Gila Water Commissioner and
22 consented to by the landowner.

23 2. Date of **Informal Resolution Meeting** @ the Office of SCIDD on November 18, 1998
24 @ 8:30 am.

25	D. Riggs, Landowner	N. Hiscox, Tenant
26	ACCOUNT #	5813-4
27	VIOLATION	Under reporting Acres
28	N.F. DUTY for this Account	N/A
29	PAYBACK	None
30	PENALTY	<u>None</u>
31	TOTAL PAYBACK & PENALTY	None

32 The owner under reported the lands TBI and penalized himself by not receiving his full

1 entitlement of natural flow waters. He has subsequently submitted a supplemental form to
2 the Gila Water Commissioner adding the under reported acres being farmed to increase the
3 acres to the actual acres TBI. Based on the above the Commissioner has determined that
4 no violation has taken place in 1998.

5 3. Date of Informal Resolution Meeting @ the Office of SCIDD on November 18, 1998
6 @ 9:30 am.

7	Mr. Delbert Lewis, Landowner	D. Bagnol, Tenant
8	ACCOUNT #	41031-21
9	VIOLATION	9.2 Acres
10	N.F. DUTY for this Account	0.16 Ac-Ft/Ac
11	PAYBACK	1.5 Ac-Ft
12	PENALTY	<u>0.8 Ac-Ft</u>
13	TOTAL PAYBACK & PENALTY	2.3 Ac-Ft

14 The payback and penalty will commence on the next irrigation using **natural flow** (N.F.)
15 in 1999. A Cease and Desist Order was issued by the Gila Water Commissioner and
16 consented to by the landowner.

17 4. Date of Informal Resolution Meeting @ the Office of SCIDD on November 18, 1998
18 @ 10:00 am.

19	Mr. James Bechtel, Landowner	Eagle Farms
20	ACCOUNT #	5817-1
21	VIOLATION	13.6 Acres
22	N.F. DUTY for this Account	0.47 Ac-Ft/Ac
23	PAYBACK	6.4 Ac-Ft
24	PENALTY	<u>3.2 Ac-Ft</u>
25	TOTAL PAYBACK & PENALTY	9.6 Ac-Ft

26 The payback and penalty will commence on the next irrigation using **natural flow** (N.F.)
27 in 1999. A Cease and Desist Order was issued by the Gila Water Commissioner and
28 consented to by the landowner.

29 5. No Informal Resolution Meeting held. A letter by the Commissioner dated November
30 16, 1998 was sent to the Apache Tribe in care of Ms. M. Titla resolving the following potential
violation.

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San Carlos Apache Tribe	
ACCOUNT #	Anderson Flat
VIOLATION	90.31 Acres
N.F. DUTY for this Account	0.52 Ac-Ft/Ac
PAYBACK	0.0 Ac-Ft
PENALTY	0.0 Ac-Ft
TOTAL PAYBACK & PENALTY	0.0 Ac-Ft

Anderson Flat was not planted and farmed in 1998 according to audits of these TBI lands. However, Article VI (2) of the Decree provides that Gila River water may be used on lands within the San Carlos Reservation for the "reclamation and irrigation" of such lands. According to the records of the Commissioner's office the Apache Tribe diverted 47.6 AF of water onto the Anderson Flat lands through November 1998 for the purpose of leaching the lands of salts. The Tribe has provided a pumping report for Anderson Flat. Therefore, the Commissioner has concluded that no violation of the TBI Regulation has occurred during 1998 because of the language of Article VI (2) of the Decree.

However, the Tribe has failed to provide a monthly farm report for Anderson Flat in 1998 as of this date as required by the Courts "Water Quality Injunction". This will be covered in the 1998 annual report by the Commissioner.

6. Date of Informal Resolution Meeting @ the Office of the Pima Agency (GRIC) on November 18, 1998 @ 11:00 am.

Gila River Indian Community (GRIC)	Pima Agency (BIA)
ACCOUNT #N/A	GRIC Decreed lands
VIOLATION	605.87 Acres
N.F. DUTY for this Account	N/A Ac-Ft/Ac
PAYBACK	0.0 Ac-Ft
PENALTY	0.0 Ac-Ft
TOTAL PAYBACK & PENALTY	0.0 Ac-Ft

The Pima Agency, being the responsible Agency for reporting to the Commissioner the TBI lands for GRIC, under reported on 638.54 acres of lands farmed as audited in 1998. The Pima Agency also over reported TBI acreage in the amount of 605.87 acres as audited in 1998. The Commissioner is regarding this as an off-setting occurrence and therefore is not assessing any penalty on these Tribal lands for 1998.

1 However the Pima Agency was notified in a letter to the Agency by the Commissioner
2 dated December 16, 1998 that this will not be allowed in 1999 and both cases will be viewed
3 as violations if they reoccur.

4 7. No Informal Resolution Meeting held. A letter by the Commissioner dated January
5 15, 1999 was sent to Mr. Wilbur Lunt resolving the following potential violation.

Mr. Wilbur Lunt, Landowner & Tenant	
PARCEL #	500-32-002 & 005
VIOLATION	2.4 Acres
N.F. DUTY for this Account	3.51 Ac-Ft/Ac
PAYBACK	8.4 Ac-Ft
PENALTY	<u>4.2 Ac-Ft</u>
TOTAL PAYBACK & PENALTY	12.6 Ac-Ft

10 The payback and penalty will commence on the next irrigation using **natural flow** (N.F.)
11 In 1999. A Cease and Desist Order was issued by the Gila Water Commissioner and
12 consented to by the landowner.

13 The following lands were audited and notices of apparent violations sent to the
14 landowners but lands were subsequently planted and were determined not to be in violation:

15 8. No Informal Resolution Meeting held.

R. McBride	J. Daley Farms, Tenant
PARCEL #	109-73-005
VIOLATION	29.4 Acres
N.F. DUTY for Union Canal Co.	4.31 Ac-Ft/Ac
PAYBACK	126.7 Ac-Ft
PENALTY	<u>63.4 Ac-Ft</u>
TOTAL PAYBACK & PENALTY	190.1 Ac-Ft

20 Upon notification of this potential violation in the Commissioner's letter of notification
21 to Mr. McBride dated December 15, 1998, Mr. McBride responded in writing on December 17,
22 1998 and stated that these lands were currently being planted to barley and will be irrigated
23 in 1998. Upon receipt of this letter the Commissioner's Office field verified that these lands
24 were actually planted and irrigated. Based on this information the Commissioner determined
25 that no violation has taken place in 1998.

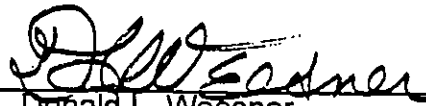
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9. No Informal Resolution Meeting held.

L. Skinner	Vince Kieffer Farms, Tenant
PARCEL #	109-76-006
VIOLATION	39.67 Acres
N.F. DUTY for Union Canal Co.	4.31 Ac-Ft/Ac
PAYBACK	171.0 Ac-Ft
PENALTY	<u>85.5 Ac-Ft</u>
TOTAL PAYBACK & PENALTY	256.5 Ac-Ft

Upon notification of this potential violation in the Commissioner's letter of notification to Mr. Skinner dated December 15, 1998, Mr. Skinner responded on December 28, 1998 and stated that these lands were currently being planted to barley and will be irrigated in 1998. Upon receipt of this letter the Commissioner's Office field verified that this land was actually planted and irrigated. Based on this information the Commissioner determined that no violation has taken place in 1998.

Respectfully submitted this 19th day of MARCH, 1999.



Donald L. Weesner
Gila Water Commissioner

ORIGINAL and one copy of the foregoing mailed this 19th day of March, 1999, to:

William M. McCool
Chief Deputy Clerk
United States District Court
44 East Broadway
Tucson, Arizona 85701

TWO COPIES of the foregoing mailed via First Class Mail this 19th day of March, 1999 to:

The Honorable John C. Coughenour
609 Federal Courthouse
1010 Fifth Avenue
Seattle, WA. 98104

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 his yearly report, any actions reported by the Gila Valley Irrigation District.

For the year 1998, the Commissioner's Office did not receive notification of any actions taken by the G.V.I.D's to improve the water quality in the Gila River.

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), within 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 (July 1998) 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 1998.

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/ Viriden Valley	46.53	26.31	4.38	0.00	1.49	3.85	0.00	36.03
Safford Valley	372.89	234.04	5.03	4.22	14.96	38.81	8.05	305.11
Lower valley SCIDD	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	419.42	260.35	9.41	4.22	16.45	42.66	8.05	341.14

The percent of SMALL PARCELS decreed lands irrigated in 1998 was 81 percent.

1998

COURT ORDERS

<u>Date of Order</u>	<u>Order</u>
January 9, 1998	Order Approving Attorney Fees 3rd Quarter 1997
January 9, 1998	Order Granting Protective Order
February 13, 1998	Minute Order setting Evidentiary Hearing regarding Commissioner's Decision to Adopt Call System
February 17, 1998	Order Setting time for Objections to 4th Quarter 1997 Attorney Fees
February 17, 1998	Order Approving Letter to Ground Water Pumpers on Discovery
March 30, 1998	Order Approving Attorney Fees 4th Quarter 1997
April 6, 1998	Order Approving Withdrawal of Council (Charlotte Benson)
April 6, 1998	Minute Order Granting Additional Attorney Fees
May 22, 1998	Order Setting time for Objections to 1st Quarter 1998 Attorney Fees
June 4, 1998	Order Granting GVID an Extension of Time to File Reply to its Underlying Motion to Modify Injunction
June 30, 1998	Order Approving Attorney Fees 1st Quarter 1998
July 27, 1998	Order Setting Date to file Response to SCIDD Motion To Enforce Pooling Provisions of Decree
August 3, 1998	Order Setting time for Objections to 2 nd Quarter 1998 Attorney Fees

August 3, 1998

Order Denying GVID Petition to Modify Injunction or Set Briefing Schedule

August 3, 1998

Order Modifying Reporting Requirement for Small Parcels

August 21, 1998

Order denying Enforcement of Pooling Provisions of Decree

September 4, 1998

Order setting date of notification parties and date of filing objections to Water Commissioner's 99 Budget

September 4, 1998

Order Granting Leave to Appear as Additional Counsel

September 21, 1998

Order approving 2nd quarter Attorney fees

October 5, 1998

Order for Substitution of Counsel

October 6, 1998

Order Approving Water Commissioner's 1999 Budget

November 23, 1998

Order Setting Date for Objections to Water Commissioner's 3rd Quarter Legal Fees and for Authorization to Pay a Portion of 1998 Fees from 1999 Budget

1998
FINANCIAL STATEMENT
WATER COMMISSIONER'S ACCOUNT
RECEIPTS

Plaintiffs			
San Carlos Irrigation Project	\$308,073.91		
SCIP 99 assessment pre-paid (98 Interest)	3,081.67		
San Carlos Agency	<u>2,950.00</u>		
		\$314,105.58	
Defendants			
Gila Valley Irrigation District	95,911.58		
Franklin Irrigation District	13,972.23		
Sunset Ditch Company	7,180.01		
New Model Canal Company	1,257.29		
ASARCO	11,560.97		
York Valley	1,021.95		
		130,904.03	
Miscellaneous Receipts		2,436.87	
Supplemental Reports (TBI)		1,527.50	
Logger Payments		6,500.00	
Transfer from recorder account		122.54	
Interest Income		14,293.95	
Voided lost checks No. 13818 & 13864 (Brent)		<u>234.21</u>	
Total Receipts			\$470,124.68
Balance Forward 1997			337,178.11
			<u>\$807,302.79</u>

DISBURSEMENTS

Personnel			
Don L. Weesner	\$67,854.98		
Jon W. Allred	40,290.96		
James W. Paviacky	33,297.84		
Waylon D. West	33,066.52		
F. I. C. A.	10,819.44		
Medicare	2,530.56		
Federal Unemployment Tax	<u>1,736.00</u>		
		\$189,598.28	
Employee Benefit Plan			
Retirement	8,486.64		
Medical Insurance	<u>7,883.51</u>		
		16,370.15	
George E. Greiner (Consulting Fee)		6,000.00	
Travel			
Don L. Weesner	2,214.74		
Jon W. Allred	2,084.31		
James W. Paviacky	2,104.59		
Waylon D. West	<u>1,950.65</u>		
		8,354.29	
1997 Attorney Fees			
Brent F. Moody	24739.68		
Charles W. Whetstone	<u>220.27</u>		
		24,959.95	
1998 Attorney Fees			
Brent F. Moody	28,103.99		
Charles W. Whetstone	<u>427.50</u>		
		28,531.49	
1997 Carry-over Expenses			
		961.79	
Geronimo Station expenses			
		856.16	
Geronimo Station Carry-over expenses			
		5,546.50	
Joint Funding (Stream flow records)			
		82,680.00	
Capital Purchases			
Telemetry	3,443.27		
GSI Monitoring	16,679.00		
Monitor	212.30		
Access Rd. (Reservoir Boundry)	<u>924.41</u>		
		21,258.98	
Other expenses			
Annual Audit	1,100.00		
Communications	6,201.39		
Computer	1,773.73		
Insurance & Bonds	2,227.00		
Office Expenses	4,377.91		
Rent and Utilities	7,065.95		
Warrenty Extension	1,075.00		
Tower Rental	911.25		
Workmen's Compensation	1,495.44		
Miscellaneous	369.32		
Water Quality Expendures	379.08		
Contingency Expenses	<u>1,586.77</u>		
		28,562.84	
Total Disbursements			\$413,678.43
Balance on hand 1/1/99			393,624.36
			<u>\$807,302.79</u>
Note:			
U.S.G.S. Billing for 98 not received to date.	\$82,680.00		
Attorney Fees due for 1998	\$21,563.89		
Geronimo Reserve Fund:	\$20,275.20		

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Colby & Company

CERTIFIED PUBLIC ACCOUNTANTS

1415 East Guadalupe #104
Tempe, Arizona 85283

TEL (602) 897-1743
FAX (602) 820-9959

David M. Colby, C.P.A.
Scott T. Powell, C.P.A.

INDEPENDENT AUDITORS' REPORT

To the Gila Water Commissioner
Safford, Arizona

We have audited the accompanying financial statements of the Gila Water Commissioner as of and for the year ended December 31, 1998, as listed in the table of contents. These financial statements are the responsibility of the Gila Water Commissioner's management. Our responsibility is to express an opinion on these financial statements based on our audit.

We conducted our audit in accordance with generally accepted auditing standards. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audit provides a reasonable basis for our opinion.

As described in Note 1, these financial statements were prepared on the cash basis, which is a comprehensive basis of accounting other than generally accepted accounting principles.

In our opinion, the financial statements referred to above present fairly, in all material respects, the cash balances of the Gila Water Commissioner as of December 31, 1998, and the revenues it received and expenditures it paid for the year ended on the basis of accounting described in Note 1.

Colby & Company

February 19, 1999

1998
FINANCIAL STATEMENT
RECORDER ACCOUNT

Account	Credit from 1997	Deposits in 1998	Total Credit	Charges for 1998	Balance Forward
Consolidated Brown Canal Co.	0.00		0.00		0.00
Colvin-Jones Canal	44.12		44.12	44.12	0.00
Curtis Canal Co.	0.00		0.00		0.00
Dodge-Nevada Canal Co	0.00		0.00		0.00
Fort Thomas Canal Co.	0.00		0.00		0.00
Graham Canal Co.	0.00		0.00		0.00
Highline Canal Co.	50.00		50.00	50.00	0.00
Montezuma Canal Co.	0.00		0.00		0.00
New Model Canal Co.	0.00		0.00		0.00
San Jose Canal Co.	0.00		0.00		0.00
Sunset Ditch Company	0.00		0.00		0.00
Sexton Canal Co.*	23.95		23.95	23.95	0.00
R. Sexton Canal Co.*	3.64		3.64	3.64	0.00
Smithville Canal Co.	0.00		0.00		0.00
Union Canal Co.	0.00		0.00		0.00
Valley Canal Co.	0.00		0.00		0.00
Don Curtis	0.83		0.83	0.83	0.00
Totals	\$122.54	\$0.00	\$122.54	\$122.54	\$0.00

* Discontinued

RECAPITULATION

Credit January 1, 1998
 Deposits

\$122.54
 0.00
\$122.54

Distribution \$122.54
 Credit 1-1-99 0.00
\$122.54

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1998
SUMMARY OF AUDITS

FRANKLIN IRRIGATION DISTRICT

PARCEL/OWNER NO.	TWP.	RNG.	SEC.	1/4-1/4	DECEED ACRES	TBI ACRES	RESULTS OF AUDIT	RESULTS OF INFORMAL RESOLUTION	PAYBACK & PENALTY
500-32-002 & 005	8S	32E	20	SWNW	39.05	39.05	36.65 ac. Planted, 2.4 ac Violation	Owner Agreed to Payback & Penalty	12.6 Ac-Ft
500-33-001 & 009	8S	32E	20	SW 1/4	47.00	47.00	47.0 ac. Planted, No Violation	NA	NA
12278	19S	20E	18	NE 1/4	109.65	85.50	85.5 ac. Planted, No Violation	NA	NA
NA	19S	21E	11	SE N 1/2	55.70	55.70	55.7 ac. Planted, No Violation	NA	NA
NA	19S	21E	13	NE 1/4	47.20	47.20	47.2 ac. Planted, No Violation	NA	NA
NA	19S	21E	3	NWNW	19.70	17.00	17.0 ac. Planted, No Violation	NA	NA
500-70-003	8S	32E	33	W1/2 SW1/4	40.70	40.70	40.7 ac. Planted, No Violation	NA	NA
600-31-003	9S	32E	4	N1/2 NE1/4	76.40	76.40	76.4 ac. Planted, No Violation	NA	NA
Total Deceered Acres Audited:					435.40				
Total TBI Acres reported By FID:					5805.70				
Percent Audited for 1998:					7.5%				

1998
SUMMARY OF AUDITS
GILA VALLEY IRRIGATION DISTRICT

PARCEL NO.	TWP.	RNG.	SEC.	1/4-1/4	DECEED ACRES	TBI ACRES	RESULTS OF AUDIT	RESULTS OF INFORMAL RESOLUTION	PAYBACK AND PENALTY
109-73-005	6S	24E	23	NWNE	110.00	110.00	110.0 ac. Planted, No Violation	NA	NA
109-64-012	6S	24E	13	W 1/2	79.70	79.30	79.3 ac. Planted, No Violation	NA	NA
109-64-010A	6S	28E	13	E 1/2	166.28	164.40	164.4 ac. Planted, No Violation	NA	NA
109-76-006	6S	24E	24	SENE	39.67	39.67	39.67 ac. Planted, No Violation	NA	NA
109-52-001	6S	24E	1	SENE	27.60	27.60	27.6 ac. Planted, No Violation	NA	NA
105-03-001	6S	25E	7	NWNE	33.90	33.90	33.9 ac. Planted, No Violation	NA	NA
109-54-003A, 4A & 9A	6S	27E	3	S1/2 NE1/4	73.65	44.00	44.0 ac. Planted, No Violation	NA	NA
107-33-011	7S	27E	3	E1/2 SW1/4	191.60	111.60	111.6 ac. Planted, No Violation	NA	NA
108-19-002	4S	23E	27	E1/2 NW1/4	51.50	51.50	51.5 ac. Planted, No Violation	NA	NA
107-29-002	6S	28E	31	W1/2 SE1/4	61.40	61.40	61.4 ac. Planted, No Violation	NA	NA
105-51-018A & 018B	6S	25E	36	NESE	48.70	44.10	44.1 ac. Planted, No Violation	NA	NA
104-28-076	7S	25E	11	NE1/4, NESE	47.90	18.00	18.0 ac. Planted, No Violation	No Penalty Due to Circumstances	0
102-36-025	7S	26E	15	SW 1/4	64.76	59.25	42.1 ac Planted, 17.15 ac Violation	NA	NA
103-16-013 & 014	7S	26E	22	SE 1/2	108.10	108.10	108.1 ac. Planted, No Violation	NA	NA
103-018-003, 004 & 008	7S	26E	24	All	417.10	417.10	417.1 ac. Planted, No Violation	NA	NA
107-49-004	7S	26E	18	W 1/2	108.20	108.20	108.2 ac. Planted, No Violation	NA	NA
102-10-002, 008 & 014	7S	26E	6	NE 1/4	68.80	67.00	67.0 ac. Planted, No Violation	NA	NA
109-25-006	5S	23E	24	NE & SW 1/4	151.70	151.70	151.7 ac. Planted, No Violation	NA	NA
108-15-006A & 006C	4S	23E	20	S 1/2	131.00	6.50	129.8 ac. Planted, No Violation	NA	NA
Total Decreed Acres Audited:					1981.56				
Total TBI Acres reported By GVID:					28353.92				
Percent Audited for 1998:					7.0%				

**1998
SUMMARY OF AUDITS**

ASARCO INC. AGRICULTURAL LANDS (JJ Anderson Lands)

TWP.	RNG.	SEC.	DECREED ACRES	TBI ACRES	RESULTS OF AUDIT	RESULTS OF INFORMAL RESOLUTION	PAYBACK & PENALTY
4S	14E	35	167.07	123.40	123.4 ac. Planted, No Violation	NA	NA
4S	14E	36	47.80	34.60	34.6 ac. Planted, No Violation	NA	NA
Total Decreed Acres Audited:				214.87			
Total TBI Acres reported By ASARCO:				214.87			
Percent Audited for 1998:				100.0%			

**1998
SUMMARY OF AUDITS**

SAN CARLOS APACHE TRIBE

TWP.	RNG.	SEC.	DECREED ACRES	TBI ACRES	RESULTS OF AUDIT	RESULTS OF INFORMAL RESOLUTION	PAYBACK & PENALTY
3S	21E	13	16.19	16.19	0 ac. Planted, 16.19 ac. Violation	See Note Below	0
3S	21E	13	22.67	22.67	0 ac. Planted, 22.67 ac. Violation	See Note Below	0
3S	21E	13	12.51	12.51	0 ac. Planted, 12.51 ac. Violation	See Note Below	0
3S	21E	13	29.18	29.18	0 ac. Planted, 29.18 ac. Violation	See Note Below	0
3S	22E	18	8.83	8.83	0 ac. Planted, 8.83 ac. Violation	See Note Below	0
3S	22E	18	0.93	0.93	0 ac. Planted, 0.93 ac. Violation	See Note Below	0
Total Decreed Acres Aud			90.31				
Total TBI Acres reported			301.53				
Percent Audited for 1998			30.0%				

NOTE: Since Article VI (2) of the Decree provides for Gila River water to be used for "reclamation and irrigation", within SCAR and these acres were irrigated for teaching purposes in 1998, no violation was charged to SCAR for 1998.

**1998
SUMMARY OF AUDITS**

SAN CARLOS IRRIGATION & DRAINAGE DISTRICT

ACCOUNT NO.	TWP.	RNG.	SEC.	1/4-1/4	DECREED ACRES	TBI ACRES	RESULTS OF AUDIT	RESULTS OF INFORMAL RESOLUTION	PAYBACK & PENALTY
5810-41	5S	8	10	N1/2 SE1/4	163.91	127.40	127.4 ac. Planted, No Violation	NA	NA
6636-3	6S	6	36	SW 1/4	160.00	160.00	118.2 ac. Plntd., 41.8 ac Violation	Owner Agreed to Payback & Penalty	8.1 Ac-Ft
6726-2	6S	7E	26	NW 1/4	160.00	160.00	154.6 ac. Plntd., 5.4 ac. Violation	Owner Agreed to Payback & Penalty	2.6 Ac-Ft
764-34	7S	6	4	S 1/2	209.27	200.00	142.7 ac. Plntd., 57.3 ac. Violation	Owner Agreed to Payback & Penalty	23.3 Ac-Ft
6631-1	6S	6	31	NE 1/4	160.00	147.20	147.2 ac. Planted, No Violation	NA	NA
6619-2	6S	6	19	NW 1/4	145.60	145.60	145.6 ac. Planted, No Violation	NA	NA
5817-1	5S	8	17	NE 1/4	160.00	152.00	138.4 ac. Plntd., 13.6 ac. Violation	Owner Agreed to Payback & Penalty	9.6 Ac-Ft
4933-11	4S	9	Sec 28,29,32 & 33	NE 1/4	420.00	55.00	134.4 ac. Plntd., 79.4 ac Violation	Used Pump Water on 79.4 ac.	0
4927-33 & 4934-21	6S	7E	Sec 26,27,34 & 35	NE 1/4	385.00	155.00	137.4 ac Plntd, 17.6 ac. Violation	Owner Agreed to Payback & Penalty	42.5 Ac-Ft
5813-4	5S	8E	13	S 1/2	237.00	137.00	188.5 ac Plntd, 51.5 ac Violation	No Payback Due to Under Reporting	0
41031-21	4S	10	31	NW 1/4	141.54	135.00	125.8 ac Plntd, 9.2 ac Violation	Owner Agreed to Payback & Penalty	2.3 Ac-Ft
5920-3	5S	9	20	SW 1/4	156.67	134.00	134.0 ac. Planted, No Violation.	NA	NA
Total Decreased Acres Audited:					2498.99				
Total TBI Acres reported By SCIDD:					36235.73				
Percent Audited for 1998:					6.9%				

1998
SUMMARY OF AUDITS
GILA RIVER INDIAN COMMUNITY

TWP.	RNG.	SEC.	DECEED ACRES	TBI ACRES	RESULTS OF AUDIT	RESULTS OF INFORMAL RESOLUTION	PAYBACK & PENALTY
3S	4E	23	440.00	85.98	120 ac. Plntd, 34.02 ac Under Reported	See Note Below	0
3S	4E	36	560.00	211.17	265.0 ac Plntd, 53.83 ac Under Reported	See Note Below	0
3S	5E	16	70.00	0.00	30.94 ac. Plntd, 30.94 ac Under Reported	See Note Below	0
4S	4E	1	600.00	146.30	240 ac. Plntd, 93.7 ac Under Reported	See Note Below	0
4S	5E	4	431.01	338.53	82.8 ac. Plntd, 255.73 ac Over Reported	See Note Below	0
4S	5E	5	568.40	415.04	169.5 ac. Plntd, 255.54 ac Over Reported	See Note Below	0
4S	6E	2	170.00	26.77	60 ac. Plntd, 33.23 ac Under Reported	See Note Below	0
4S	6E	8	346.62	166.50	41.9 ac. Plntd, 124.6 ac Over Reported	See Note Below	0
4S	6E	14	306.36	109.17	200 ac. Plntd, 90.83 ac Under Reported	See Note Below	0
4S	7E	34	200.00	0.00	10 ac. Plntd, 10 ac Under Reported	See Note Below	0
4S	8E	36	599.06	213.41	300 ac. Plntd, 86.59 ac Under Reported	See Note Below	0
5S	7E	1	1153.33	445.46	610 ac. Plntd, 164.54 ac Under Reported	See Note Below	0
5S	8E	7	156.67	94.14	135 ac Plntd, 40.86 ac Under Reported	See Note Below	0
Total Deceerd Acres Audited:			5601.45				
Total TBI Acres reported By GRIC:			20009.46				
Percent Audited for 1998:			28.0%				

NOTE: Since the acres under reported and the acres over reported by GRIC balance each other out, no violation was charged to GRIC for 1998.

CALENDAR YEAR 1998

GILA RIVER DECREED ACREAGES AND DIVERSIONS

<u>DUNCAN VALLEY CANALS</u>	<u>Acreages</u>	<u>T B I Acres</u>	<u>Acre-feet</u>	<u>Duty T B I a-f/a</u>
Sunset	2,759.90	2,520.76	11,487	4.56
New Model	2,717.65	2,168.65	7,673	3.54
Valley	1,387.20	1,116.29	4,432	3.97
Colmenero	441.00	0	0	0
Sexton	137.90	0	0	0
R. Sexton	144.10	0	0	0
York	315.10	0	0	0
Albert	8.80	0	0	0
F E Ross	11.60	0	0	0
R K Davis	26.30	0	0	0
J H Brown	25.60	0	0	0
York Cattle	49.80	0	0	0
Laura Short	36.50	0	0	0
Totals	8,061.35	5,805.70	23,592	4.06

Water issued for 5,805.70 T.B.I. acres on 12/01/98. Monthly modification of T.B.I. Acres are shown on diversions plates.

<u>SAFFORD VALLEY DIVERSIONS</u>	<u>Acreages</u>	<u>T B I Acres</u>	<u>Acre-feet</u>	<u>Duty T B I a-f/a</u>
Consolidated Brown	1,326.90	1,048.33	5,326	5.08
Fourness	210.70	189.6	664	3.50
San Jose	4,150.03	3,713.43	17,828	4.80
Montezuma	4,835.96	3,920.22	17,523	4.47
Union	7,371.96	6,117.46	27,589	4.51
Graham	4,217.68	3,890.58	13,417	3.45
Smithville	2,549.33	2,336.66	12,026	5.15
Dodge-Nevada	2,516.54	2,391.44	8,837	3.70
Curtis	1,971.70	1,752.85	8,256	4.71
Fort Thomas	3,155.70	2,827.85	14,048	4.97
Colvin-Jones	205.90	165.50	342	2.07
Totals	32,512.40	28,353.92	125,856	4.44

Water issued for 28,353.92 T.B.I. acres on 12/01/98. Monthly modification of T.B.I. Acres are shown on diversions plates.

<u>SAN CARLOS APACHE RESERVATION</u>	<u>Acreages</u>	<u>T B I Acres</u>	<u>Acre-feet</u>	<u>Duty T B I a-f/a</u>
Black Point	69.88	69.88	43	0.62
Bylas (Navajo Point) ⁽²⁾	141.36	141.36	0	
Anderson Flat	90.31	90.31	62	0.69
Non-designated lands	697.87	0	0	
Totals	1,000.00	302.13	105	0.35

Water issued for 160.19 T.B.I. acres on 12/01/98. Monthly modification of T.B.I. Acres are shown on diversions plates.

<u>WINKELMAN VALLEY</u>	<u>Acreages</u>	<u>T B I Acres</u>	<u>Acre-feet</u>	<u>Duty T B I a-f/a</u>
Industrial/Municipal (ASARCO) ⁽¹⁾	793.00	793.00	11,429	
Domestic/Municipal (Kearny, Arizona)	101.73	101.73	408	4.01
Farmlands	244.16	0	0	
J J Anderson	196.27	158.00	302	2.03
Totals	1,335.16	1,052.73	12,139	

Water issued for 1,052.73 T. B. I. Acres on 12/01/98. Monthly modification of T.B.I. Acres are shown on diversions plates.

<u>UNITED STATES OF AMERICA</u>	<u>Acreages</u>	<u>T B I Acres</u>	<u>Acre-feet</u>	<u>Duty T B I a-f/a</u>	<u>Decreed Duty a-f/a</u>
Indian lands (Allotted/Tribal)	50,000	20,009.46	63,487	3.17	1.26
Federal Agencies	546	0	52,175	2.61	1.03
	50,546	20,009.46	115,662	5.78	2.29
White Lands					
San Carlos Irrigation & Drainage Dist	50,000	36,299.53	67,911	1.87	1.36
			77,275	2.13	1.55
	50,000	36,299.53	145,186	4.00	2.90
Natural Flow Lands ⁽²⁾	1,544.5	0	774		0.50
	51,544.5	36,299.53	145,960	4.02	2.83
Totals	102,090.5	56,308.99	261,662	4.65	2.56
	102,090.5	56,308.99	131,398	2.33	1.29
	100,546	56,308.9	129,450	2.30	1.29

Water issued for 28,353.92 T.B.I. acres on 12/01/98. Monthly modification of T.B.I. Acres are shown on diversions plates.

Diversion from Picacho Reservoir are reflected above.

⁽¹⁾ Entitled to annual diversion of 16,221 acre-feet. (Article IX, et al 59)

⁽²⁾ SCIDD did not register any Natural Flow Lands to be irrigated in 1998. Water diverted to Natural Flow Lands were in violation to TBI regulations. As SCIDD lands were the only injured no penalties were assessed.

⁽³⁾ No diversions made to Navajo Point TBI lands. Those lands were in violation of TBI Regulations. Violation was accidentally over-looked by Water Commissioner and no violations were assessed.

1936-1998

YEARLY RIVER FLOWS & DIVERSIONS, GILA RIVER SYSTEM

Quantities to closest thousand acre-feet

Year	Gila Blue	Duncan Valley Divs.	Gila Clifton	San Fran. Clifton	Gila Solomon + Brown	San Simon	Safford Valley Divs.	Gain Safford Valley	Gila Calva	San Carlos Periodot	Maximum Stored Water	Gila Below Coolidge Dam	Gila Winkelman	Gila Kelvin	A-H Div's	A-H Spilled Sluiced	A-H Total	Loss Kelvin to A-H	Sacaton Div's
1936	90	39	76	88	*217	14	132	51	150	45	193	237	#	306	244	#	#	#	4.6
1937	206	40	180	181	*418	3	161	60	321	46	289	298	#	375	302	24	327	49	2.5
1938	87	23	78	71	*164	5	98	22	94	15	90	152	#	193	156	9	166	27	1.5
1939	94	34	87	70	*172	6	79	16	115	19	30	123	#	176	134	22	156	20	1.3
1940	148	40	131	134	*303	11	100	7	220	52	113	143	#	268	155	49	204	65	2.5
1941	435	34	407	382	918	13	151	120	900	172	775	240	#	458	285	125	420	38	1.4
1942	111	36	99	101	222	8	172	83	141	21	819	373	374	396	372	12	384	11	0.2
1943	71	32	69	57	151	15	122	49	93	29	563	357	360	418	357	34	391	27	0.7
1944	80	27	74	54	151	17	128	56	97	13	284	294	303	339	287	17	304	35	0.6
1945	109	28	101	90	220	11	149	36	118	16	124	193	196	241	200	19	219	22	0.8
1946	53	14	49	52	116	3	70	5	54	16	29	62	71	103	84	8	92	11	0.8
1947	45	10	#	41	100	4	52	-13	39	11	19	55	59	82	68	7	78	6	0.5
1948	86	9	#	69	148	5	40	-33	80	10	15	65	61	87	71	6	77	10	0.1
1949	303	25	289	255	589	15	188	-4	411	22	260	277	275	317	280	24	284	33	0.1
1950	48	13	40	34	87	6	69	5	30	6	94	123	123	156	118	11	127	28	0.1
1951	33	3	32	36	79	7	26	-18	42	17	8	41	53	76	47	10	56	19	0.1
1952	140	20	100	185	324	5	129	-11	189	73	164	228	237	270	226	18	244	26	0.4
1953	48	8	35	40	83	6	39	-12	39	8	18	45	44	69	53	2	56	13	0.1
1954	89	13	80	77	190	28	80	-16	122	43	74	103	127	222	121	97	217	5	1.0
1955	67	13	87	73	170	27	88	22	132	27	109	94	107	228	113	118	231	+5	0.2
1956	24	8	16	28	49	1	43	0	7	12	78	76	79	89	73	2	76	13	0.0
1957	121	11	94	108	225	20	70	-37	138	11	82	74	81	95	78	4	82	13	0.1
1958	205	19	184	260	473	17	147	-42	302	52	228	243	252	315	264	25	289	26	0.0
1959	74	11	66	92	179	10	80	-7	102	31	112	135	149	207	154	31	184	22	0.0
1960	138	15	110	143	285	2	111	-13	183	33	223	252	259	290	241	26	267	23	0.0
1961	73	8	56	98	159	20	38	-34	110	21	70	41	60	88	61	8	69	19	0.0
1962	211	21	173	208	410	4	135	-37	242	22	189	228	237	253	220	7	227	25	0.0
1963	130	20	108	138	273	3	101	-8	167	31	132	167	178	226	186	19	205	21	0.0
1964	89	12	54	89	142	10	70	-4	76	11	66	91	97	157	120	19	139	18	0.0
1965	161	18	137	222	395	8	93	-51	260	110	253	117	134	240	137	163	300	+60	0.0
1966	209	23	181	205	433	4	133	68	371	21	504	251	283	348	298	29	326	22	0.0
1967	115	16	107	158	259	12	90	10	190	38	324	249	273	380	260	88	348	31	0.0
1968	314	26	277	309	656	4	152	23	531	38	679	282	294	345	316	15	331	14	0.0
1969	82	15	50	85	122	3	89	20	56	15	487	315	312	341	306	2	308	33	0.0
1970	53	15	44	57	110	3	86	13	30	14	199	222	231	261	224	9	234	28	0.0
1971	89	5	74	97	181	10	39	-21	131	35	120	38	53	87	70	3	73	24	0.0
1972	265	12	218	254	506	14	67	8	462	43	379	172	180	219	178	118	294	+75	0.0
1973	314	20	292	339	671	1	125	27	575	63	843	298	312	373	324	30	355	19	0.0
1974	59	13	56	49	115	5	80	8	48	11	616	381	354	397	351	11	362	34	0.0
1975	220	16	171	151	342	5	109	-28	209	18	273	342	361	353	328	11	339	13	0.0
1976	68	18	64	87	147	3	94	0.2	56	9	119	195	192	195	181	6	187	9	0.0
1977	66	9	49	52	132	6	31	-43	83	14	21	50	59	99	61	34	95	4	0.0
1978	330	13	298	352	848	4	75	-124	653	165	545	217	293	425	262	144	406	19	0.0
1979	287	16	283	337	750	2	108	19	685	82	1070	407	503	641	422	77	498*	143	0.0
1980	135	23	118	211	445	1	122	10	334	129	1090	526	#	670	477	134W	611	59W	0.0
1981	82	18	65	58	150	8	110	16	63	14	668	471	523	456	15	471	52	0.0	
1982	131	24	108	104	270	118	#	158	59	278	280	280	318	289	12	302	15	0.0	
1983	374	22	353	601	1149	127	#	1164	154	968	459	459	748	273	646	619	+71	0.0	
1984	188	24	192	224	480	135	#	416	77	921	397	397	582	398	184	562	+0.3	0.0	
1985	370	21	334	294	740	134	#	728	51	975	779	779	805	879	458	382	840	39	0.0
1986	166	24	155	136	324	146	#	268	62	908	393	393	422	464	412	30	442	22	0.0
1987	121	26	113	174	354	138	#	263	32	792	439	439	446	465	427	1	428	37	0.0
1988	257	23	220	190	445	138	#	391	30	587	431	431	440	464	420	8	429	35	0.0
1989	86	18	62	62	120	94	#	43	14	458	395	395	384	423	379	3	383	40	0.0
1990	78	10	62	82	170	89	#	58	58	81	44	44	52	95	56	18	74	22	0.0
1991	340	20	291	681	128	#	748	87	511	276	511	276	304	383	297	48	345	19	0.0
1992	377	20	330	801	124	#	1027	88	740	550	550	550	619	646	401	205	606	58	0.0
1993	518	22	572	1558	119	#	1695	286	1080	1682	1682	1682	2203	2374	391	1925	2316	76	0.0
1994	230	23	157	345	108	#	357	28	541	377	377	377	£	489	401	12	413	76	0.0
1995	282	22	208	508	109	#	568	108	879	427	427	427	£	620	423	120	543	62	0.0
1996	117	16	77	194	85	#	109	14	522	439	439	439	465	426	5	431	33	0.0	
1997	210	22	192	103	316	213	#	210	21	211	268	268	286	258	1	258	28	0.0	
1998	184	24	187	153	340	126	#	276	38	271	297	297	345	312	9	321	24	0.0	

* Gila below Bonita
 # No record
 * Flood of Oct. 20, 1972 destroyed gage. Record for Oct. 20, 1972 to Sept. 30, 1974 computed from supplementary gage 6.3 miles upstream.
 * 1979: March and April spill not estimated. Sluice amount unknown.
 * 1980: April spill not estimated.
 # Record discontinued September 30, 1980 through June 30, 1984
 # Record discontinued October 1, 1982
 # Record discontinued September 30, 1989
 ^ Not able to compute
 £ Discontinued September 30, 1994

SAN CARLOS APACHE TRIBE FARM REPORT

1998

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

BLACK POINT Fields 1021W, 1021E, 1022W & 1022E

MONTH	CROP	DATE PLANTED	ACRES TBI	DATES IRRIGATED from - to	SOURCE OF WATER APPLIED				QUANTITY APPLIED ac-ft	USE OF CROP	CROP YIELD tons/acre	UNUSUAL PROBLEMS OR	DATA BY GWC	
					GILA RIVER DIVERSIONS gallons	WATER QUALITY uS/cm	TRIBAL WELLS gallons	WATER QUALITY uS/cm					COMBINED RIVER & WELLS total gallons	DATE
JANUARY	HAY	98-97	88.7	NONE	NA	0	0	0	NA	NA	No water used this month	MAY 28	1484	
FEBRUARY	HAY	98-97	88.7	NONE	NA	0	0	0	NA	NA	No water used this month			
MARCH	HAY	98-97	88.7	NONE	NA	0	0	0	NA	NA	No water used this month			
APRIL	HAY	98-97	88.7	NONE	NA	0	0	0	NA	NA	No water used this month			
MAY	HAY	98-97	88.7	NA	NA	11,200,000	0	18,340,000	NA	NA	Hay harvested prior to irrigation			
JUNE	HAY	98-97	88.7	NONE	NA	0	0	0	NA	NA	No water used this month			
JULY	HAY	98-97	88.7	NONE	NA	0	0	0	NA	NA	No water used this month			
AUGUST	HAY	98-97	88.7	NONE	NA	0	0	0	NA	NA	No water used this month			
SEPTEMBER	HAY	98-97	88.7	NONE	NA	0	0	0	NA	NA	No water used this month			
OCTOBER	HAY	98-97	88.7	NONE	NA	0	0	0	NA	NA	No water used this month			
NOVEMBER	HAY	98-97	88.7	NONE	NA	0	0	0	NA	NA	No water used this month			
DECEMBER	HAY	98-97	88.7	NONE	NA	0	0	0	NA	NA	No water used this month			
TOTALS*					7,140,000	11,200,000	0	18,340,000		1.72		66		

NA: INFORMATION NOT AVAILABLE, FARM REPORT INCOMPLETE.

NOTE: MONTHLY FARM REPORTS WERE RECEIVED FOR JAN-MAY FROM JD COLVIN. MONTHLY FARM REPORTS WERE ALSO RECEIVED FOR MAR-DEC FROM HARRISON TALGO, TRIBAL ADMINISTRATOR.
DATA FROM HARRISON TALGOS MAY REPORT INDICATED NO DIVERSIONS FOR AT BLACK POINT. DATA FROM JD COLVINS MAY REPORT ARE SHOWN ABOVE.

NAVAJO POINT Fields 1041, 1043, 1044, 1045 & 1046

MONTH	CROP	DATE PLANTED	ACRES TBI	DATES IRRIGATED from - to	SOURCE OF WATER APPLIED				QUANTITY APPLIED ac-ft	USE OF CROP	CROP YIELD tons/acre	COMMENTS OR UNUSUAL PROBLEMS	DATA BY GWC	
					GILA RIVER DIVERSIONS gallons	WATER QUALITY uS/cm	TRIBAL WELLS gallons	WATER QUALITY uS/cm					COMBINED RIVER & WELLS total gallons	DATE
JANUARY	HAY	94-97	130.9	NONE	NA	0	0	0	NA	NA	No water used this month	MAR 31	355	
FEBRUARY	HAY	94-97	130.9	NONE	NA	0	0	0	NA	NA	No water used this month			
MARCH	HAY	94-97	130.9	NA	NA	8,400,000	0	8,400,000	NA	0.07	None			
APRIL	HAY	94-97	130.9	NONE	NA	0	0	0	NA	0.35	No water used this month			
MAY	HAY	94-97	130.9	NA	NA	66,850,000	0	66,850,000	NA	0.07	Hay harvested prior to Irr. Lost 10-20%			
JUNE	HAY	94-97	130.9	NONE	NA	0	0	0	NA	NA	Reports indicate no irrigation this month			
JULY	HAY	94-97	130.9	NONE	NA	0	0	0	NA	NA	Reports indicate no irrigation this month			
AUGUST	HAY	94-97	130.9	NONE	NA	0	0	0	NA	NA	Reports indicate no irrigation this month			
SEPTEMBER	HAY	94-97	130.9	NONE	NA	0	0	0	NA	NA	Reports indicate no irrigation this month			
OCTOBER	HAY	94-97	130.9	NONE	NA	0	0	0	NA	NA	Reports indicate no irrigation this month			
NOVEMBER	HAY	94-97	130.9	NONE	NA	0	0	0	NA	NA	Reports indicate no irrigation this month			
DECEMBER	HAY	94-97	130.9	NONE	NA	0	0	0	NA	NA	Reports indicate no irrigation this month			
TOTALS*					0	76,250,000	0	76,250,000		0.48		231		

NA: INFORMATION NOT AVAILABLE, FARM REPORT INCOMPLETE.

NOTE: MONTHLY FARM REPORTS WERE RECEIVED FOR JAN-MAY FROM JD COLVIN. MONTHLY FARM REPORTS WERE ALSO RECEIVED FOR MAR-DEC FROM HARRISON TALGO, TRIBAL ADMINISTRATOR.
DATA FROM HARRISON TALGOS MARCH AND MAY REPORT INDICATED NO DIVERSIONS AT HAVAJO POINT. DATA FROM JD COLVINS REPORTS ARE AS SHOWN ABOVE.

SAN CARLOS APACHE TRIBE FARM REPORT (CONT.)

1998

This annual farm report by the GWC is pursuant to the Court's Water Quality Injunction filed on June 3, 1986
All data reported is supplied by the San Carlos Apache Tribe unless shown otherwise

ANDERSON FLAT Fields 1047, 1048, 1049 & 1050

MONTH	CROP	DATE PLANTED	ACRES TBI	DATES IRRIGATED from - to	SOURCE OF WATER APPLIED				CROP YIELD tons/acre	USE OF CROP	COMMENTS OR UNUSUAL PROBLEMS	DATA BY GWC		
					GILA RIVER DIVERSIONS gallons	WATER QUALITY uS/cm	TRIBAL WELLS gallons	WATER QUALITY uS/cm				COMBINED RIVER & WELLS total gallons	QUANTITY APPLIED acre-feet	DATE
JANUARY	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
FEBRUARY	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
MARCH	NA	NA	18.0	MAR. 30-31	NA	NA	NA	NA	NA	NA				
APRIL	NA	NA	18.0	APR. 1-2	NA	NA	NA	NA	NA	NA				
MAY	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
JUNE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
JULY	NA	NA	NA	NONE	NA	NA	NA	NA	NA	NA				
AUGUST	NA	NA	30.0	AUG. 5-6	NA	NA	NA	NA	NA	NA				
SEPTEMBER	NA	NA	30.0	SEPT. 28-30	NA	NA	NA	NA	NA	NA				
OCTOBER	NA	NA	30.0	OCT. 1-15	NA	NA	NA	NA	NA	NA				
NOVEMBER	NA	NA	30.0	NOV. 4-30	NA	NA	NA	NA	NA	NA				
DECEMBER	NA	NA	18.0	JAN. 1-2 & 8-11	NA	NA	NA	NA	NA	NA				
TOTALS**					NA	NA	NA	NA	NA	NA			OCT. 28	2420

NA: INFORMATION NOT AVAILABLE, NO FARM REPORT OR INCOMPLETE FARM REPORT.

NOTE: MONTHLY FARM REPORTS WERE RECEIVED FOR MAR-DEC FROM HARRISON TALGO, TRIBAL ADMINISTRATOR. NO FARM REPORTS WERE RECEIVED FOR ANDERSON FLAT FOR JAN-FEB.

TOTAL FOR ALL SCAR LANDS 301.53

86,450,000

7,140,000

83,590,000

287

1998

DUNCAN VALLEY: 8061.35 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				16.0	16.0					31.8	31.8		69.0	65.1	3.9	70.5	38.6	31.9	
2				25.8	25.8		10.1	10.1		61.8	61.6		68.8	65.0	3.8	70.0	27.6	42.4	
3				23.1	23.1		22.5	22.5		60.5	60.5		68.1	64.5	3.6	70.9	29.3	41.6	
4				0.1	0.1		33.8	33.8		59.0	59.0		68.5	68.5		71.3	27.1	44.2	
5							41.1	41.1		64.4	64.4		69.0	69.0		67.8	38.6	29.2	
6							42.2	42.2		65.1	68.1		68.8	69.6		63.6	35.8	27.8	
7							42.3	42.3		68.1	68.1		69.3	69.3		63.1	27.1	36.0	
8				7.9	7.9		41.1	41.1		69.2	69.2		67.8	67.8		63.4	19.7	43.7	
9				7.4	7.4		40.0	40.0		67.0	67.0		68.3	68.3		55.6	27.1	28.5	
10							39.2	39.2		66.6	66.6		68.4	68.4		43.4	5.8	37.6	
11				10.7	10.7		45.7	45.7		66.7	66.7		64.0	64.0		39.2	5.8	33.4	
12				16.1	16.1		57.5	57.5		68.2	68.2		55.1	55.1		39.4	11.1	28.3	
13				16.0	16.0		63.9	63.9		68.0	68.0		58.4	54.0	4.4	31.5	5.8	26.7	
14				16.2	16.2		62.5	62.5		68.0	68.0		63.8	59.4	4.4	27.6		27.6	
15				16.3	16.3		63.0	63.0		68.8	68.8		68.4	63.9	4.5	28.3		28.3	
16				21.6	21.6		63.0	63.0		68.5	68.5		66.0	63.5	4.5	27.4	5.8	21.6	
17				24.5	24.5		56.1	56.1		68.2	68.2		68.5	64.0	4.5	27.1		27.1	
18				24.6	24.6		57.2	57.2		67.9	67.9		68.5	64.0	4.5	25.7		25.7	
19				24.6	24.6		60.0	60.0		68.1	68.1		68.4	63.9	4.5	26.0		26.0	
20				24.6	24.6		59.5	59.5		67.8	67.8		67.8	63.5	4.3	28.2		26.2	
21				24.6	24.6		61.7	61.7		68.4	68.4		66.8	63.9	2.9	25.8		25.8	
22				24.4	24.4		62.1	62.1		67.0	67.0		69.3	65.4	3.9	25.6		25.6	
23	1.8	1.8		24.7	24.7		62.4	62.4		68.6	68.6		67.0	63.1	3.9	18.9		18.9	
24	2.7	2.7		14.2	14.2		62.8	62.8		68.7	68.7		63.4	59.9	3.5	13.2		13.2	
25	2.8	2.8		0.1	0.1		62.9	62.9		68.7	68.7		69.6	66.9	2.7	33.1		33.1	
26	2.8	2.8					61.1	61.1		68.4	68.4		69.0	67.0	2.0	44.6		44.6	
27	2.8	2.8					62.1	62.1		68.2	68.2		70.8	58.1	12.7	43.5		43.5	
28	5.4	5.4					58.0	58.0		68.4	68.4		71.5	38.6	32.9	41.7		41.7	
29	8.3	8.3					55.6	55.6		68.9	68.9		70.1	29.3	40.8	37.2		37.2	
30	9.0	9.0					55.2	55.2		68.3	68.3		71.2	27.1	44.1	35.0		35.0	
31	8.7	8.7					57.3	57.3					68.8	27.1	42.7				
Total	44.3	44.3		363.5	363.5		1559.9	1559.9		1989.1	1989.1		2095.2	1857.2	238.0	1256.6	305.2	951.4	
Acres-foot																			
Priority Diverted		88			721			3094			3965			4158				2493	
Apport Diverted		88			721			3094			3965			3884				805	
Apport diverted to data														474				1888	
TBI Acreage														474				2362	
Apportioned		5310.10			5353.76			5358.76			5860.92			5860.92				5860.92	
Duty		13276			13545			19077			27254			34873				34814	
Duty		0.02			0.13			0.58			0.61			0.71				0.43	

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	31.8		31.8	8.0	8.0		53.1	11.1	42.0	11.1		11.1	41.1	41.1		27.5	11.0	16.5	
2	32.9		32.9	10.3	10.3		44.7	12.1	32.6	10.2		10.2	41.1	41.1		27.1	10.6	16.5	
3	35.8		35.8	12.0	12.0		36.9	5.8	31.1	10.7		10.7	41.5	41.5		26.4	26.4		
4	41.7		41.7	12.2	12.2		27.9	5.8	22.1	10.8		10.8	41.5	41.5		27.1	27.1		
5	42.1		42.1	12.4	12.4		20.8	12.1	8.7	10.7		10.7	37.9	37.8		25.2	25.2		
6	39.4		39.4	17.9	14.2	3.7	21.2	5.8	15.4	14.1		14.1	34.3	34.3		23.9	23.9		
7	45.5		45.5	20.6	16.2	4.4	24.6	5.8	18.8	28.4		28.4	33.7	33.7		21.7	21.7		
8	57.8		57.8	27.1	14.2	12.9	21.5	34.1	21.5	34.1		34.1	28.0	28.0		17.2	17.2		
9	62.6	16.8	45.8	40.2	20.5	19.7	18.0		18.0	38.2		38.2	15.0	15.0		13.0	13.0		
10	51.1	16.8	34.3	42.8	15.0	27.8	17.1		17.1	38.1		38.1	14.9	14.9		10.5	10.5		
11	21.3	5.8	15.5	41.8	12.1	29.7	18.6		18.6	38.7		38.7	15.7	15.7		11.6	11.6		
12	23.5		23.5	41.5	12.1	29.4	15.5	5.8	9.7	38.5		38.5	15.6	15.6		13.7	13.7		
13	24.9		24.9	37.1	36.9	0.2	11.1		11.1	38.0		38.0	28.5	28.5		11.4	11.4		
14	24.6		24.6	35.8	12.1	23.7	10.5		10.5	37.5		37.5	29.5	29.5		10.3	10.3		
15	24.6		24.6	33.8	15.8	18.0	13.1		13.1	37.2		37.2	27.5	27.5		15.3	15.3		
16	19.7		19.7	30.6	20.5	10.1	13.5		13.5	36.7	12.5	24.2	24.2	24.2		17.8	17.8		
17	15.7		15.7	23.2	20.5	2.7	12.3		12.3	38.3	35.4	2.9	24.2	24.2		20.1	20.1		
18	16.0		16.0	19.8	12.1	7.7	12.5		12.5	35.2	35.2		24.2	24.2		20.3	20.3		
19	17.0	5.8	11.2	17.7	12.1	5.6	12.6		12.6	34.0	34.0		24.2	24.2		20.0	20.0		
20	23.7		23.7	15.5	5.8	9.7	12.6		12.6	34.8	34.8		23.9	23.9		20.5	20.5		
21	36.4		36.4	21.1	12.1	9.0	12.7		12.7	35.4	35.4		23.9	23.9		21.3	21.3		
22	25.8	5.8	20.0	30.1	26.9	3.2	13.0		13.0	35.4	35.4		23.7	23.7		21.8	21.8		
23				35.7	12.1	23.6	13.2		13.2	35.8	35.8		23.5	23.5		22.3	22.3		
24				30.5	5.8	24.7	13.0		13.0	34.8	34.8		25.3	25.3		21.8	21.8		
25				28.7	12.1	16.6	13.2		13.2	32.2	32.2		26.6	26.6		21.6	21.6		
26				32.8	5.8	27.0	13.5		13.5	32.5	32.5		27.3	27.3		21.9	21.9		
27				25.8	5.8	20.0	13.8		13.8	35.6	35.6		27.1	17.2	9.9	22.0	22.0		
28				25.4	5.8	19.6	12.9		12.9	42.2	42.2		27.1	21.5	5.6	21.6	21.6		
29				40.3	40.3		13.0		13.0	46.8	46.8		27.1	16.6	10.5	21.4	21.4		
30				54.1	38.2	15.9	13.7		13.7	43.7	43.7		27.4	27.4		21.5	21.5		
31				53.5	12.1	41.4				40.6	40.6					19.7	19.7		
Total	717.1	54.2	662.9	878.3	472.0	406.3	547.9	64.3	483.6	990.1	586.7	423.4	823.5	797.5	26.0	617.5	584.5	33.0	
Acres-foot		1422			1742			1087			1964			1634			1224		23592
Priority Diverted		107			936			128			1124			1582			1159		17193
Apport Diverted		1315			806			959			840			52			65		6399
Apport diverted to data		3677			4483			5442			6282			6334			6399		6399
TBI Acreage		5894.82			5805.70			5805.70			5805.70			5805.70			5805.70		5805.70
Apportioned		34837			34488			34488			34488			34488			34488		34488
Duty		0.24			0.33			0.19			0.34			0.28			0.21		4.06

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1998

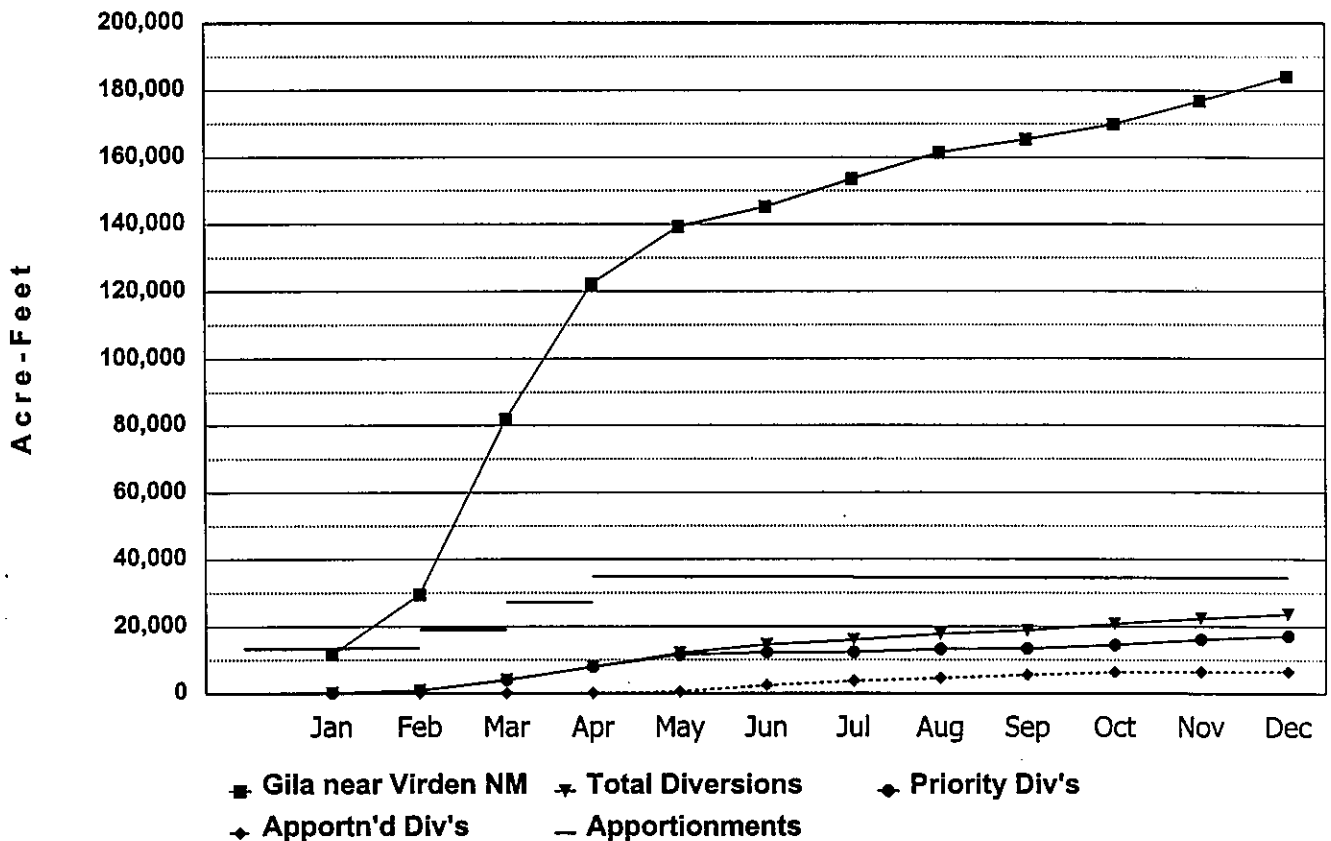
MASS DIAGRAM OF DUNCAN VALLEY

DIVERSIONS, APPORTIONMENTS, & RIVER FLOWS

In Acre-feet

Month	Monthly	Accumulated				Water Apportioned
	Gila River Below Blue Creek	Gila River Below Blue Creek	Total Diversions	Priority Diversions	Apportioned Diversions	
JAN	11,522	11,522	88	88		13,276
FEB	17,988	29,510	809	809		13,545
MAR	52,345	81,855	3,903	3,903		19,077
APR	40,463	122,318	7,868	7,868		27,254
MAY	16,925	139,243	12,026	11,552	474	34,873
JUN	5,839	145,082	14,519	12,157	2,362	34,814
JUL	8,388	153,470	15,941	12,264	3,677	34,837
AUG	7,916	161,386	17,683	13,200	4,483	34,486
SEP	3,911	165,297	18,770	13,328	5,442	34,486
OCT	4,495	169,792	20,734	14,452	6,282	34,486
NOV	6,903	176,695	22,368	16,034	6,334	34,486
DEC	7,394	184,089	23,592	17,193	6,399	34,486

Graph :	Gila near Virden NM	Total Diversions	Priority Div's	Apportn'd Div's	Apportionments
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1998

SUNSET CANAL: 2,759.90 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				7.0	7.0		10.1	10.1		27.8	27.8		30.8	28.9	3.9	30.1	19.2	10.9
2				16.8	16.8		15.5	15.5		31.4	31.4		30.7	28.9	3.8	30.4	15.1	15.3
3				17.0	17.0		20.8	20.8		30.7	30.7		30.5	28.9	3.6	30.9	16.2	14.7
4							24.9	24.9		30.8	30.8		31.0	31.0		31.0	14.7	16.3
5							25.7	25.7		29.9	29.9		31.1	31.1		29.3	19.2	10.1
6							25.7	25.7		31.3	31.3		31.4	31.4		26.0	18.1	7.9
7							25.7	25.7		31.1	31.1		31.2	31.2		26.0	14.7	11.3
8				7.9	7.9		25.3	25.3		30.8	30.8		30.0	30.0		26.0	14.7	11.3
9				7.4	7.4		24.4	24.4		30.4	30.4		30.8	30.8		20.9	14.7	6.2
10							23.7	23.7		30.5	30.5		30.9	30.9		19.3	5.8	13.5
11				10.7	10.7		27.3	27.3		28.8	28.8		30.5	30.5		19.4	5.8	13.6
12				16.1	16.1		30.6	30.6		31.0	31.0		31.0	31.0		19.3	11.1	8.2
13				16.0	16.0		30.5	30.5		31.0	31.0		31.0	26.6	4.4	16.5	5.8	10.7
14				16.2	16.2		30.5	30.5		30.6	30.6		31.3	26.9	4.4	15.0		15.0
15				16.3	16.3		30.5	30.5		30.9	30.9		31.4	26.9	4.5	15.6		15.6
16				16.1	16.1		30.8	30.8		30.6	30.6		31.4	26.9	4.5	15.0	5.8	9.2
17				16.0	16.0		29.7	29.7		30.5	30.5		31.4	26.9	4.5	15.3		15.3
18				16.0	16.0		29.7	29.7		30.1	30.1		31.4	26.9	4.5	14.7		14.7
19				16.0	16.0		30.1	30.1		30.3	30.3		31.4	26.9	4.5	15.4		15.4
20				16.0	16.0		30.1	30.1		30.6	30.6		31.2	26.9	4.3	15.3		15.3
21				16.0	16.0		29.9	29.9		30.6	30.6		29.8	26.9	2.9	14.7		14.7
22				16.0	16.0		30.1	30.1		29.2	29.2		30.8	26.9	3.9	14.3		14.3
23				16.0	16.0		30.1	30.1		30.9	30.9		30.8	26.9	3.9	13.2		13.2
24				9.2	9.2		30.5	30.5		31.3	31.3		30.4	26.9	3.5	12.3		12.3
25							30.5	30.5		31.3	31.3		28.8	26.9	1.9	15.4		15.4
26							29.8	29.8		31.1	31.1		28.4	26.9	1.5	19.1		19.1
27							30.4	30.4		30.8	30.8		31.1	22.3	8.8	19.2		19.2
28							24.3	24.3		29.0	29.0		31.0	19.2	11.8	18.9		18.9
29							23.9	23.9		30.9	30.9		29.5	16.2	13.3	18.7		18.7
30							23.5	23.5		31.0	31.0		30.8	14.7	16.1	17.9		17.9
31							30.4	30.4					30.5	14.7	15.8			
Total				288.7	288.7		809.3	809.3		915.2	915.2		952.3	822.0	130.3	595.1	180.9	414.2
Acres-feet						533		1605		1815		1889			1180			
Priority Diverted					533			1605		1815		1630			359			
Apport Diverted												258			822			
Apport diverted to date												258			1080			
TBI Acreage	2545.50				2480.66			2485.66		2520.76		2520.76		2520.76		2520.76		2520.76
Apportioned	6364				6276			6849		11722		14999		14973		14973		14973
Duty					0.21			0.65		0.71		0.75		0.75		0.47		0.47

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	16.8		16.8	8.0	8.0		19.7	11.1	8.6	11.1		11.1	10.5	10.5		10.6	10.6		
2	17.2		17.2	10.3	10.3		19.5	12.1	7.4	10.2		10.2	10.2	10.2		10.2	10.2		
3	16.3		16.3	12.0	12.0		19.5	5.8	13.7	10.7		10.7	10.0	10.0		9.5	9.5		
4	16.2		16.2	12.2	12.2		17.2	5.8	11.4	10.8		10.8	10.2	10.2		10.2	10.2		
5	15.2		15.2	12.4	12.4		14.7	12.1	2.6	10.7		10.7	10.2	10.2		10.2	10.2		
6	17.7		17.7	17.9	14.2	3.7	15.1	5.8	9.3	11.2		11.2	10.1	10.1		10.2	10.2		
7	19.7		19.7	20.6	16.2	4.4	14.5	5.8	8.7	15.5		15.5	10.2	10.2		10.2	10.2		
8	18.6		18.6	27.1	14.2	12.9	14.9		14.9	18.1		18.1	10.2	10.2		7.1	7.1		
9	24.0	14.2	9.8	30.3	14.7	15.6	14.6		14.6	18.0		18.0	10.2	10.2		2.9	2.9		
10	25.8	14.2	11.6	29.8	14.2	15.6	14.0		14.0	17.8		17.8	10.2	10.2		0.4	0.4		
11	17.0	5.8	11.2	28.5	12.1	16.4	13.9		13.9	18.2		18.2	10.2	10.2					
12	14.5		14.5	28.9	12.1	16.8	13.5	5.8	7.7	18.1		18.1	10.2	10.2					
13	14.1		14.1	25.4	25.2	0.2	10.8		10.8	18.0		18.0	10.2	10.2					
14	14.1		14.1	24.2	12.1	12.1	10.5		10.5	17.9		17.9	10.2	10.2					
15	14.0		14.0	22.2	14.2	8.0	13.1		13.1	17.8		17.8	10.2	10.2					
16	14.1		14.1	20.7	14.7	6.0	13.5		13.5	17.9	12.1	5.8	10.2	10.2					
17	13.9		13.9	17.1	14.7	2.4	12.3		12.3	18.9	18.1	0.8	10.2	10.2					
18	13.8		13.8	14.6	12.1	2.5	12.5		12.5	19.1	19.1		10.2	10.2					
19	14.4	5.8	8.6	14.4	12.1	2.3	12.6		12.6	18.5	18.9		10.2	10.2					
20	14.2		14.2	14.6	5.8	8.8	12.6		12.6	19.1	19.1		10.2	10.2					
21	14.4		14.4	14.4	12.1	2.3	12.7		12.7	18.9	18.9		10.2	10.2					
22	11.3	5.8	5.5	19.9	19.2	0.7	13.0		13.0	19.2	19.2		10.1	10.1		0.2	0.2		
23				25.1	12.1	13.0	13.2		13.2	18.8	18.8		10.1	10.1		0.6	0.6		
24				22.8	5.8	17.0	13.0		13.0	17.4	17.4		10.5	10.5					
25				14.5	12.1	2.4	13.2		13.2	15.2	15.2		10.3	10.3					
26				14.6	5.8	8.8	13.5		13.5	15.3	15.3		10.2	10.2					
27				14.7	5.8	8.9	13.8		13.8	15.3	15.3		10.2	10.2					
28				14.8	5.8	9.0	12.9		12.9	15.4	15.4		10.2	10.2					
29				16.8	16.8		13.0		13.0	15.5	15.5		10.2	10.2					
30				19.9	19.2	0.7	13.7		13.7	12.5	12.5		10.5	10.5					
31				19.8	12.1	7.5				10.5	10.5								
Total	381.5	49.0	312.5	588.3	390.3	198.0	420.8	64.3	356.5	491.7	280.9	230.8	306.5	306.5		82.3	82.3		
Acres-feet			717			1167			835		975		808			163		11487	
Priority Diverted			97			774			128		517		808			163		8229	
Apport Diverted			620			393			707		458							3258	
Apport diverted to date			1700			2093			2800		3258							3258	
TBI Acreage	2520.76				2520.76			2520.76		2520.76		2520.76		2520.76		2520.76		2520.76	
Apportioned	14973				14973			14973		14973		14973		14973		14973		14973	
Duty			0.28			0.46			0.33		0.39		0.24		0.24		0.06		4.56

Diversion on North side of Gila River in SW¼NW¼, Sec. 21, T. 19 S., R. 20 W., NMPM. Water-stage recorder and 6 ft. parshall flume located in SE¼NW¼, Sec. 17, T. 19S., R. 20W.
Record good

1998

NEW MODEL CANAL: 2,717.55 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				9.0	9.0					21.1	21.1		24.1	24.1		26.8	11.3	15.3
2				9.0	9.0					21.1	21.1		24.1	24.1		26.2	6.4	19.8
3				6.1	6.1		7.0	7.0		18.8	18.8		24.1	24.1		26.4	7.0	19.4
4				0.1	0.1		13.0	13.0		17.6	17.6		24.1	24.1		26.3	6.3	20.0
5							16.2	16.2		22.0	22.0		24.1	24.1		25.3	11.3	14.0
6							16.5	16.5		23.7	23.7		24.1	24.1		24.7	9.6	15.1
7							16.6	16.6		24.3	24.3		24.1	24.1		24.2	6.3	17.9
8							15.8	15.8		25.0	25.0		23.9	23.9		24.4	3.3	21.1
9							15.6	15.6		24.1	24.1		23.9	23.9		24.7	6.3	18.4
10							15.5	15.5		24.1	24.1		24.1	24.1		15.8		15.8
11							16.1	16.1		24.0	24.0		24.1	24.1		11.4		11.4
12							18.0	18.0		23.7	23.7		24.1	24.1		11.4		11.4
13							19.0	19.0		23.7	23.7		24.0	24.0		8.0		8.0
14							19.1	19.1		24.2	24.2		23.7	23.7		6.4		6.4
15							19.4	19.4		24.5	24.5		23.7	23.7		6.6		6.6
16				5.5	5.5		19.3	19.3		24.5	24.5		23.5	23.5		6.3		6.3
17				8.5	8.5		14.3	14.3		24.5	24.5		23.3	23.3		6.1		6.1
18				8.6	1.0		15.1	15.1		24.5	24.5		23.3	23.3		5.4		5.4
19				8.6	8.6		16.2	16.2		24.5	24.5		23.3	23.3		4.9		4.9
20				8.6	8.6		15.8	15.8		24.5	24.5		23.3	23.3		5.3		5.3
21				8.6	8.6		19.0	19.0		24.5	24.5		24.0	24.0		5.5		5.5
22				8.4	8.4		19.5	19.5		24.5	24.5		26.1	26.1		5.5		5.5
23	1.8	1.8		8.7	8.7		18.6	18.6		24.5	24.5		23.2	23.2		2.5		2.5
24	2.7	2.7		5.0	5.0		18.5	18.5		24.1	24.1		19.4	19.4		0.9		0.9
25	2.8	2.8		0.1	0.1		18.6	18.6		24.1	24.1		27.2	26.4	0.8	9.5		9.5
26	2.8	2.8					18.6	18.6		24.1	24.1		26.9	26.4	0.5	12.1		12.1
27	2.8	2.8					18.8	18.8		24.1	24.1		26.9	23.8	3.3	11.5		11.5
28	5.4	5.4					19.0	19.0		24.1	24.1		26.8	11.3	15.5	10.8		10.8
29	6.3	6.3					19.0	19.0		24.1	24.1		26.6	7.0	19.6	9.6		9.6
30	9.0	9.0					19.0	19.0		24.1	24.1		26.5	6.3	20.2	8.7		8.7
31	8.7	8.7					20.5	20.5					26.5	6.3	20.2			
Total	44.3	44.3		94.8	87.2		497.6	497.6		708.6	708.6		757.0	676.9	80.1	393.0	67.8	325.2
Acres-foot		88			188			987			1402			1502			780	
Priority Diverted		88			188			987			1402			1343			134	
Apport Diverted														159			645	
Appor diverted to date														159			804	
TBI Acreage		1589.19			1697.69			1697.69			2164.75			2164.75			2164.75	
Apportioned		3973			4295			6044			10068			12880			12859	
Duty		0.08			0.11			0.58			0.49			0.69			0.36	

DAY	JUL			AUG			SEP			OCT			NOV			DEC			Totals		
	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.			
1	8.6		8.6				23.7		23.7				21.1	21.1		16.9	0.4	16.5			
2	9.7		9.7				16.4		16.4				20.8	20.8		16.9	0.4	16.5			
3	11.1		11.1				11.4		11.4				20.8	20.8		16.9	16.9				
4	14.8		14.8				8.0		8.0				20.6	20.6		16.9	16.9				
5	13.0		13.0				6.1		6.1				20.4	20.4		15.0	15.0				
6	9.9		9.9				6.1		6.1	2.9		2.9	18.8	18.8		13.7	13.7				
7	14.8		14.8				6.5		6.5	9.5		9.5	18.0	18.0		11.5	11.5				
8	24.4		24.4				4.4		4.4	9.0		9.0	12.1	12.1		10.1	10.1				
9	24.5	1.8	22.7				2.4		2.4	9.2		9.2				10.1	10.1				
10	15.9	1.8	14.1				2.0		2.0	9.1		9.1				10.1	10.1				
11	3.0		3.0				1.8		1.8	9.1		9.1				6.2	6.2				
12	4.8		4.8				0.8		0.8	8.8		8.8				3.9	3.9				
13	5.6		5.6							8.8		8.8	11.1	11.1		1.5	1.5				
14	5.3		5.3							8.6		8.6	14.0	14.0							
15	5.2		5.2							8.2		8.2	14.0	14.0		2.8	2.8				
16	3.2		3.2							7.9	0.4	7.5	14.0	14.0		4.3	4.3				
17	1.2		1.2							9.7	9.6	0.1	14.0	14.0		7.0	7.0				
18	1.6		1.6							10.4	10.4		14.0	14.0		7.7	7.7				
19	2.0		2.0							10.1	10.1		14.0	14.0		7.1	7.1				
20	3.3		3.3							11.8	11.8		13.7	13.7		7.1	7.1				
21	6.2		6.2							12.1	12.1		13.7	13.7		8.1	8.1				
22	5.9		5.9							11.4	11.4		13.6	13.6		8.6	8.6				
23										11.4	11.4		13.4	13.4		8.6	8.6				
24										11.4	11.4		14.8	14.8		8.6	8.6				
25						9.5		9.5		11.4	11.4		16.3	16.3		8.6	8.6				
26						13.6		13.6		11.5	11.5		17.1	17.1		8.6	8.6				
27						6.4		6.4		13.7	13.7		16.9	7.0	9.9	8.6	8.6				
28						5.7		5.7		19.2	19.2		16.9	11.3	5.6	8.3	8.3				
29						15.0	15.0			21.0	21.0		16.9	6.4	10.5	8.1	8.1				
30						23.3	11.3	12.0		21.1	21.1		16.9	16.9		8.1	8.1				
31						23.5		23.5		21.1	21.1					6.5	6.5				
Total	195.8	3.6	192.2			97.0	26.3	70.7		89.6		89.6	298.4	207.6	90.8	417.9	391.9	26.0	276.4	243.4	33.0
Acres-foot		388			192			178			592			829			548		7873		
Priority Diverted		7			52			178			412			777			483		5873		
Apport Diverted		381			140			178			180			52			65		1800		
Appor diverted to date		1185			1325			1503			1683			1735			1800		1800		
TBI Acreage		2168.65			2168.65			2168.65			2168.65			2168.65			2168.65		2168.65		
Apportioned		12882			12882			12882			12882			12882			12882		12882		
Duty		0.17			0.09			0.08			0.27			0.38			0.25		3.54		

Diversion on South side of Gila River in NE/4NW/4, Sec. 4, T. 19 S., R21 W., NMPM. Water-stage recorder and # 1. Parshall flume located in NW/4SE/4, Sec. 34, T.18 S., R.32 E.

1998

VALLEY CANAL: 1,387.20 acres

Mean daily diversions, cubic feet per second

Table with columns for months JAN through JUN, and rows for DAY (1-31) and Total. Sub-rows include Acre-feet, Priority Diverted, Apport Diverted, Appor diverted to date, TBI Acreage, Apportioned, and Duty.

Table with columns for months JUL through DEC, and rows for DAY (1-31) and Total. Sub-rows include Acre-feet, Priority Diverted, Apport Diverted, Appor diverted to date, TBI Acreage, Apportioned, and Duty.

Diversion on North side of Gila River in NE1/4NW1/4, Sec. 4, T. 19 S., R. 21 W., NMPM; Water stage recorder and # ft. Parshall flume located in NW1/4SE1/4, Sec. 34, T. 19 S., R. 32 E. Record good.

1998

SAFFORD VALLEY: 32,512.40 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	56.9	56.9		41.0	41.0		278.8	278.8		340.9	340.7	0.2	254.9	254.9		244.8	153.8	91.0
2	41.2	41.2		68.8	68.8		285.3	285.3		341.7	341.7		261.0	259.4	1.6	278.3	205.5	72.8
3	33.8	33.8		71.0	71.0		287.0	287.0		340.3	340.3		287.8	264.0	3.8	273.7	187.5	86.2
4	33.5	33.5		68.3	68.3		298.2	298.2		342.7	342.7		251.1	249.9	1.2	283.2	194.4	88.8
5	40.0	40.0		70.7	70.7		303.6	303.6		343.1	343.1		224.6	224.6		291.2	175.8	115.4
6	46.6	46.6		68.0	68.0		319.9	319.9		343.8	343.8		220.0	220.0		263.4	207.6	55.8
7	64.1	64.1		74.0	74.0		335.8	335.8		339.8	339.8		219.7	219.7		260.3	204.0	56.3
8	82.2	82.2		108.1	108.1		338.0	338.0		338.1	338.1		226.8	226.8		258.6	175.7	83.1
9	88.1	88.1		135.2	135.2		338.7	338.7		337.3	337.3		226.5	226.5		234.3	148.6	85.7
10	87.7	87.7		153.2	153.2		335.1	335.1		338.3	338.3		227.1	227.1		231.3	165.3	66.0
11	86.2	86.2		171.9	171.9		338.3	338.3		334.2	334.2		217.4	217.4		232.7	47.6	185.1
12	88.4	88.4		180.8	180.8		336.5	336.5		333.5	333.5		211.5	211.5		233.2	37.4	195.8
13	88.0	88.0		181.2	181.2		336.9	336.9		340.5	340.5		210.4	210.4		216.4	81.1	155.3
14	93.2	93.2		181.1	181.1		340.0	340.0		342.3	342.3		210.4	210.1	0.3	215.1	31.4	183.7
15	95.1	95.1		195.1	195.1		346.3	346.1	0.2	340.2	340.2		192.0	191.9	0.1	210.6	2.5	208.1
16	82.9	82.9		212.2	212.2		345.3	345.3		340.5	340.5		193.1	193.0	0.1	205.4		205.4
17	79.1	79.1		229.2	229.2		340.2	340.2		340.3	339.6	0.7	192.1	192.0	0.1	203.1	6.6	196.5
18	67.4	67.4		244.8	244.8		341.5	341.5		312.3	311.8	0.5	213.4	213.4		180.6		180.6
19	51.1	51.1		240.9	240.9		339.7	339.7		294.4	292.7	1.7	219.6	218.2	1.4	181.0		181.0
20	50.8	50.8		248.9	248.9		338.5	338.5		287.0	287.0		240.7	240.1	0.6	187.6		187.6
21	50.4	50.4		252.4	252.4		336.5	336.5		288.4	288.4		245.6	245.3	0.3	176.6		176.6
22	60.4	60.4		252.7	252.7		333.7	333.7		287.9	287.9		244.8	244.0	0.8	170.0		170.0
23	64.8	64.8		266.7	266.7		336.4	336.4		299.9	299.9		239.0	239.0	0.2	135.0		135.0
24	55.0	55.0		269.9	269.9		340.7	340.7		299.7	299.7		229.7	229.4	0.3	128.9		128.9
25	45.1	45.1		269.8	269.8		344.2	344.2		294.1	294.1		213.6	213.6		131.8		131.8
26	33.8	33.8		280.9	278.8	2.1	342.0	342.0		291.5	291.5		212.4	212.1	0.3	125.6		125.6
27	26.7	26.7		278.6	278.8		341.6	341.6		293.5	293.5		214.0	212.3	1.7	115.7		115.7
28	28.1	28.1		273.2	273.2		341.4	341.4		277.7	277.7		223.4	190.1	33.3	99.9		99.9
29	33.3	33.3					337.0	337.0		271.0	271.0		219.6	185.4	34.2	95.9		95.9
30	34.0	34.0					335.7	335.7		258.8	258.8		222.7	172.3	50.4	88.5		88.5
31	34.1	34.1					341.2	341.0	0.2				223.4	153.0	70.4			
Total	1822.0	1822.0		5084.6	5082.5	2.1	10248.0	10247.6	0.4	9534.5	9531.4	3.1	6968.0	6767.1	200.9	5930.7	2004.6	3926.1
Acre-foot		3813			10085			20328			18911			13822			11764	
Priority Diverted		3613			10081			20328			18905			13423			3975	
Apport Diverted					4						6			398			7788	
Apport diverted to date					4			4			10			408			8196	
TBI acreage	19997.13			27272.98			28102.04			28198.68			28308.60			28352.07		
Apportioned	49993			69001			100043			131124			168435			168411		
Duty	0.18			0.32			0.71			0.67			0.48			0.41		

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	90.0		90.0	292.4	73.5	218.9	270.5	90.3	180.2	71.1		71.1	22.7	22.7	100.3	100.3			
2	91.1		91.1	291.2	218.9	72.3	222.8	62.2	160.6	71.1		71.1	25.3	25.3	107.7	40.4	67.3		
3	90.9		90.9	302.8	242.3	60.5	205.0	90.3	114.7	73.0		73.0	31.7	31.7	118.4	60.3	58.1		
4	97.2		97.2	306.2	286.5	9.7	181.5	13.9	167.6	79.8		79.8	30.2	30.2	128.2	120.6	7.6		
5	100.9		100.9	308.9	199.2	107.7	183.1	29.9	153.2	80.1		80.1	39.5	39.5	128.5	128.5			
6	97.0		97.0	307.8	147.9	159.9	191.3	90.3	101.0	85.2		85.2	57.8	57.8	111.8	111.8			
7	127.9		127.9	312.8	139.0	173.8	196.1	52.8	143.3	80.8		80.8	61.3	61.3	108.5	108.5			
8	166.3		166.3	308.0	199.2	108.8	157.0	13.9	143.1	81.8		81.8	46.8	46.8	85.1	85.1			
9	154.0		154.0	304.9	122.7	182.2	134.1	0.8	133.3	82.4	0.8	81.8	36.4	36.4	67.4	67.4			
10	159.5	122.7	38.8	300.3	155.1	145.2	130.6		130.6	79.0		79.0	37.2	37.2	67.5	67.5			
11	172.0	122.9	49.4	290.6	122.7	167.9	126.7		126.7	80.6	0.8	79.8	32.7	32.7	74.4	74.4			
12	169.6		169.6	282.8	90.3	172.5	103.8		103.8	88.9		88.9	25.3	25.3	75.4	75.4			
13	186.2	109.0	77.2	245.0	109.0	136.0	101.8	20.5	81.3	84.1	0.8	83.3	40.1	40.1	75.3	75.3			
14	169.1	0.8	168.3	208.2	207.9	0.3	107.0		107.0	86.6	0.8	85.8	47.8	47.8	74.9	74.9			
15	181.6		181.6	205.5	90.3	115.2	98.2	0.8	97.4	84.6		84.6	43.8	43.8	78.0	78.0			
16	136.9		136.9	201.2	137.2	64.0	85.4		85.4	81.6		81.6	43.1	43.1	70.6	70.6			
17	124.8		124.8	177.7	159.3	18.4	82.0		82.0	80.8	66.1	14.7	48.8	48.8	69.5	69.5			
18	129.1		129.1	169.3	153.1	16.2	83.5		83.5	84.8	73.5	11.3	56.5	56.5	69.1	69.1			
19	141.7	13.9	127.8	156.4	73.5	82.9	84.1		84.1	89.7	89.7		62.4	62.4	79.5	79.5			
20	144.5		144.5	160.2	73.5	86.7	85.7		85.7	90.5	90.5		64.5	64.5	90.1	90.1			
21	171.4		171.4	211.7	37.1	174.6	80.8		80.8	95.3	95.3		69.0	69.0	92.2	92.2			
22	200.7		200.7	244.8	73.5	171.3	77.2		77.2	74.6	74.6		73.8	73.8	93.4	93.3	0.1		
23	265.8	6.6	259.2	239.0	209.3	29.7	82.6		82.6	54.5	54.5		78.5	78.5	95.3	95.1	0.2		
24	290.2	186.5	103.7	200.5	73.5	127.0	89.0		89.0	52.8	52.8		92.1	92.1	104.1	103.9	0.2		
25	287.6	286.1	1.5	199.7	52.8	146.9	82.7		82.7	49.3	49.3		113.8	113.8	104.8	104.8	0.2		
26	287.1	287.1		199.9	73.5	126.4	83.8		83.8	48.9	48.9		122.9	122.9	105.7	105.5	0.2		
27	283.3	237.3	46.0	188.7	52.8	145.9	84.0		84.0	40.0	40.0		121.8	121.8	113.3	112.9	0.4		
28	286.2	82.2	224.0	180.5	37.1	143.4	86.4		86.4	36.2	36.2		120.5	96.7	23.8	127.5	127.1	0.4	
29	290.6	219.5	71.1	225.0	29.9	195.1	82.8		82.8	27.8	27.8		120.5	101.0	19.5	139.8	139.4	0.4	
30	289.9	29.9	260.0	253.1	249.7	3.4	77.2		77.2	24.5	24.5		105.7	75.4	30.3	138.8	138.3	0.3	
31	291.5	209.7	81.8	287.7	212.7	55.0				24.2	24.2				98.1	98.1			
Total	5854.9	1893.9	3760.9	7530.8	4113.0	3417.8	3658.5	485.7	3190.8	2164.6	851.1	1313.5	1871.7	1798.1	73.6	2983.0	2851.6	131.4	
Acre-foot		11217			14937			7253			4293			3714			5917	125856	
Priority Diverted		3758			8158			824			1688			3587			5657	94077	
Apport Diverted		7481			6780			8329			2605			147			281	31779	
Apport diverted to date																			

1998

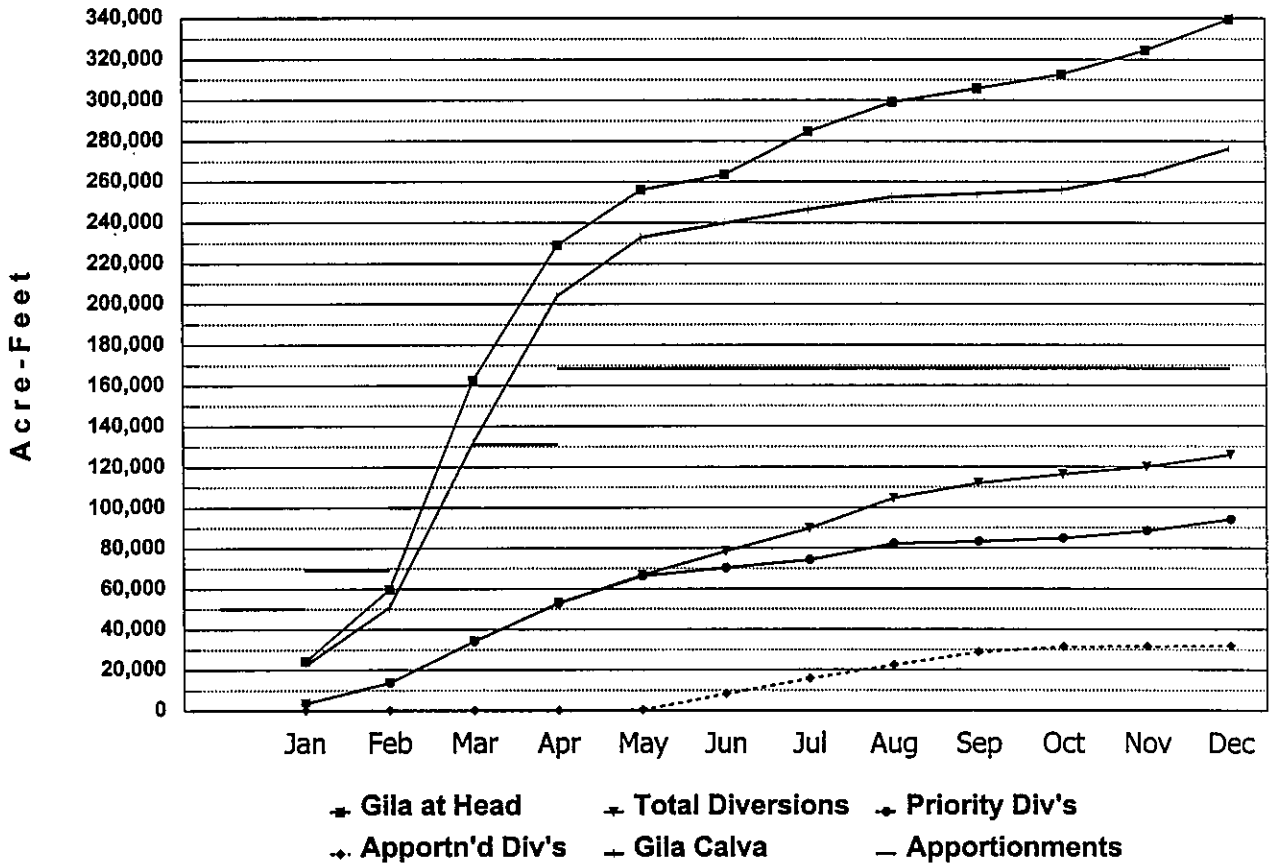
MASS DIAGRAM OF SAFFORD VALLEY

DIVERSIONS, APPORTIONMENTS, & RIVER FLOWS

In Acre-feet

Month	Monthly Gila River at Head of Safford Valley	Gila River at Head of Safford Valley	Accumulated			Water Apportioned	Accumulated Gila River At Calva	Monthly Gila River At Calva
			Total Diversions	Priority Diversions	Apportioned Diversions			
JAN	24,228	24,228	3,613	3,613		49,993	22,247	22,247
FEB	35,491	59,719	13,698	13,694	4	69,001	50,805	28,558
MAR	102,878	162,597	34,026	34,022		100,043	132,125	81,320
APR	66,285	228,882	52,937	52,927	10	131,124	203,819	71,694
MAY	27,160	256,042	66,758	66,350	408	168,435	232,742	28,923
JUN	7,537	263,579	78,521	70,325	8,196	168,411	239,601	6,859
JUL	20,974	284,553	89,740	74,083	15,657	168,422	246,492	6,891
AUG	14,529	299,082	104,678	82,241	22,437	168,422	252,375	5,883
SEP	6,514	305,596	111,931	83,165	28,766	168,422	254,220	1,845
OCT	7,093	312,689	116,224	84,853	31,371	168,422	256,075	1,855
NOV	11,788	324,477	119,938	88,420	31,518	168,422	264,025	7,950
DEC	15,088	339,565	125,856	94,077	31,779	168,422	276,345	12,320

Graph: Gila at Head Total Diversions Priority Div's Apportn'd Div's Apportionments Gila Calva



1998

CONSOLIDATED BROWN CANAL: 1,326.90 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				3.2	3.2		7.3	7.3		12.9	12.9		12.8	12.8		12.5		12.5
2							7.2	7.2		12.8	12.8		12.9	12.8	0.3	11.6	7.3	4.3
3							7.2	7.2		12.9	12.9		13.3	12.6	0.7	11.6	11.6	
4							10.9	10.9		12.8	12.8		12.7	12.6	0.1	11.2	9.1	2.1
5							12.4	12.4		12.8	12.8		12.4	12.4		11.9	10.3	1.6
6							12.5	12.5		12.9	12.9		12.6	12.6		13.1	7.3	5.8
7							12.5	12.5		12.9	12.9		12.7	12.7		11.1	11.7	-0.6
8							12.3	12.3		12.9	12.9		12.7	12.7		11.3	10.4	0.9
9							12.1	12.1		12.9	12.9		12.7	12.7		11.1	7.3	3.8
10							11.9	11.9		12.9	12.9		12.7	12.7		11.5	6.6	4.9
11							12.2	12.2		12.9	12.9		12.7	12.7		11.9	6.9	5.0
12							12.4	12.4		12.8	12.8		12.7	12.7		11.9	2.4	9.5
13							12.5	12.5		12.8	12.8		12.6	12.6		9.8	2.1	7.7
14	5.0	5.0					12.5	12.5		12.8	12.8		12.7	12.6	0.3	8.9	3.2	5.7
15	7.2	7.2					13.1	12.9	0.2	12.8	12.8		12.7	12.6	0.1	8.4	1.7	6.7
16	7.3	7.3					12.7	12.7		12.8	12.8		12.7	12.6	0.1	8.0		8.0
17	9.3	9.3					12.3	12.3		12.8	12.8		12.7	12.6	0.1	8.5	0.4	8.1
18	10.3	10.3					12.3	12.3		12.8	12.8		12.5	12.5		7.4		7.4
19	10.3	10.3					12.2	12.2		12.7	12.7		12.7	12.8	0.1	6.9		6.9
20	10.3	10.3					12.1	12.1		12.9	12.9		12.6	12.6		6.7		6.7
21	10.3	10.3					11.9	11.9		12.9	12.9		12.7	12.8	0.1	6.6		6.6
22	10.3	10.3					12.1	12.1		12.8	12.8		12.7	12.6	0.1	6.6		6.6
23	10.3	10.3		5.3	5.3		12.5	12.5		12.8	12.8		12.8	12.6	0.2	5.3		5.3
24	10.2	10.2		7.1	7.1		12.8	12.8		12.8	12.8		12.9	12.6	0.3	4.7		4.7
25	10.1	10.1		7.2	7.2		12.9	12.9		12.8	12.8		12.6	12.6		4.7		4.7
26	10.1	10.1		7.5	7.5		12.8	12.8		12.8	12.8		12.9	12.6	0.3	4.7		4.7
27	10.1	10.1		7.6	7.6		12.8	12.8		12.4	12.4		12.9	12.6	0.3	4.6		4.6
28	10.1	10.1		7.5	7.5		12.4	12.4		12.7	12.7		12.6	12.0	0.6	3.8		3.8
29	10.1	10.1					12.3	12.3		12.8	12.8		12.5	11.6	0.9	3.3		3.3
30	10.1	10.1					12.4	12.4		12.6	12.6		12.1	10.2	1.9	3.0		3.0
31	10.1	10.1					12.7	12.7		12.7	12.7		12.1	8.8	5.3			
Total	171.5	171.5		45.4	45.4		368.2	368.0	0.2	384.0	384.0		392.9	381.1	11.8	252.6	98.3	154.3
Acre-feet		340			90			730			762			779			501	
Priority Diverted		340			90			730			762			756			195	
Apport Diverted														23			306	
Apport diverted to date														23			329	
TBI acreage		840.23			1029.03			1030.33			1030.33			1036.33			1048.33	
Apportioned		2101			2803			3668			4791			6166			6227	
Duty		0.40			0.01			0.71			0.74			0.74			0.45	

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	3.1			12.6	3.8	8.8	12.3	4.1	8.2	3.3									
2	3.1			12.8	12.2	0.6	11.9	3.2	8.7	3.1									
3	3.0			12.3	12.3		11.1	4.1	7.0	3.0							3.9	3.9	
4	3.3			12.5	12.5		8.3	0.8	7.5	3.1							5.5	5.5	
5	3.9			12.6	10.4	2.2	7.3	1.7	5.6	3.0							5.4	5.4	
6	3.9			12.9	6.6	6.3	7.5	4.1	3.4	3.6							5.4	5.4	
7	4.6			13.1	5.4	7.7	9.1	2.8	6.3	3.7							5.4	5.4	
8	5.1			12.8	10.4	2.4	7.6	0.8	6.8	3.6							5.5	5.5	
9	5.1			12.8	5.1	7.7	6.0		6.0	3.7							5.8	5.8	
10	5.1	5.1		12.2	6.8	5.4	5.1		5.1	4.0							5.8	5.8	
11	5.1	5.1		11.9	5.1	6.8	5.1		5.1	4.1							5.5	5.5	
12	5.9			10.7	4.1	6.6	4.3		4.3	3.8							5.4	5.4	
13	6.7	4.7		10.7	4.7	6.0	3.9	0.9	3.0	3.8				3.2	3.2		5.4	5.4	
14	6.6			12.4	12.4		4.2		4.2	3.8				3.8	4.1	4.1	6.8	6.8	
15	6.8			11.9	4.1	7.8	4.3		4.3	3.8				3.8	0.6	0.6	7.5	7.5	
16	5.8			11.5	5.4	6.1	3.8		3.8	3.6				3.6			7.4	7.4	
17	5.1			9.4	7.3	2.1	3.6		3.6	3.6				3.6			7.4	7.4	
18	5.3			6.4	6.4		2.8		2.8	3.7				3.7			9.8	9.8	
19	5.2	0.8		6.3	3.8	2.5	3.8		3.8	3.4				3.4			12.6	12.6	
20	5.1			5.2	3.8	1.4	4.0		4.0	3.6				3.6			11.5	11.5	
21	6.0			6.3	2.1	6.2	3.8		3.8	4.2				4.2			12.2	12.2	
22	6.8			12.7	3.8	8.9	4.1		4.1	4.4				4.4			12.8	12.7	0.1
23	10.5	0.4		12.1	11.7	0.4	3.8		3.8	4.5				4.5			12.9	12.7	0.2
24	13.3	9.1		9.5	3.8	5.7	3.9		3.9	4.5				4.5			12.9	12.7	0.2
25	13.1	12.7		7.2	2.8	4.4	4.1		4.1	1.4				1.4			12.9	12.7	0.2
26	12.8	12.8		7.1	3.8	3.3	4.0		4.0								12.9	12.7	0.2
27	10.9	10.9		7.3	2.8	4.5	3.5		3.5								13.1	12.7	0.4
28	11.4	3.2		7.3	2.1	5.2	3.8		3.8								13.1	12.7	0.4
29	11.9	11.9		9.9	1.7	8.2	3.7		3.7								13.1	12.7	0.4
30	12.4	1.7		12.3	12.3		3.6		3.6								13.0	12.7	0.3
31	12.4	11.7		12.4	11.7	0.7											8.8	8.8	
Total	219.1	80.1	129.0	329.1	201.2	127.9	164.3	22.5	141.8	90.3	33.3	57.0	7.9	7.9		259.3	256.9	2.4	
Acre-feet		435			653			326			179			16			514		5328
Priority Diverted		179			399			45			66			16			510		4088
Apport Diverted		256			254			281			113						5		1238
Apport diverted to date		585			839			1120			1233			1233			1238		1238
TBI acreage		1048.33			1048.33			1048.33			1048.33			1048.33			1048.33		1048.33
Apportioned		6227			6227			6227			6227			6227			6227		6227
Duty		0.41			0.62			0.31			0.17			0.02			0.49		5.08

Diversion from North side of Gila River in SE¹/₄SE¹/₄, Sec. 30, T.88., R.28E. Water-stage recorder and 3 ft. Parshall flume located in NE¹/₄NE¹/₄, Sec.31, T.88., R.28E. Record good

c:123\saif98

1998

SAN JOSE CANAL: 4,150.03 acres

Mean daily diversions, cubic feet per second

Table with columns for months (JAN, FEB, MAR, APR, MAY, JUN) and rows for days (1-31). Includes sub-totals for Total, Acra-foot, Priority Diverted, Apport Diverted, Appor diverted to date, TBI acreage, Apportioned, and Duty.

Table with columns for months (JUL, AUG, SEP, OCT, NOV, DEC) and rows for days (1-31). Includes sub-totals for Total, Acra-foot, Priority Diverted, Apport Diverted, Appor diverted to date, TBI acreage, Apportioned, and Duty.

Diverion from South side of Gila River in SW/4SW/4, Sec.38, T8 S., R.27 E. Water-stage recorder and 15 ft Parshall flume located in NE/4NE/4, Sec.2, T.7 S., R.27 E., which measures combined flow of San Jose, Fourmes, Montezuma, and Union Canals. Segregation made by Watermaster Record good

c:123\saf98

1998

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		2.4	2.4		2.4	2.4	2.4
2							2.0	2.0		2.0	2.0		2.4	2.4		2.4	2.4	
3							2.0	2.0		2.0	2.0		2.4	2.4		2.4	2.4	
4							2.0	2.0		2.0	2.0		2.4	2.4		2.4	2.4	
5							2.0	2.0		2.0	2.0		2.4	2.4		2.4	2.4	2.4
6							2.0	2.0		2.0	2.0		2.4	2.4		2.3	2.3	
7							2.0	2.0		2.0	2.0		2.4	2.4		2.3	2.3	
8							2.0	2.0		2.0	2.0		2.4	2.4		2.3		2.3
9							2.0	2.0		2.0	2.0		2.4	2.4		2.3		2.3
10							2.0	2.0		2.0	2.0		2.4	2.4		2.3		2.3
11							2.0	2.0		2.0	2.0		2.4	2.4		2.3		2.3
12							2.0	2.0		2.0	2.0		2.4	2.4		2.3		2.3
13							2.0	2.0		2.3	2.3		2.4	2.4		2.3		2.3
14							2.0	2.0		2.4	2.4		2.4	2.4		2.3		2.3
15							2.0	2.0		2.4	2.4		2.4	2.4		0.9		0.9
16							2.0	2.0		2.4	2.4		2.4	2.4				
17							2.0	2.0		2.4	2.4		2.4	2.4				
18							2.0	2.0		2.4	2.4		2.4	2.4				
19							2.0	2.0		2.4	2.4		2.4	2.4				
20							2.0	2.0		2.4	2.4		2.4	2.4				
21							2.0	2.0		2.4	2.4		2.4	2.4				
22							2.0	2.0		2.4	2.4		2.4	2.4				
23				1.4	1.4		2.0	2.0		2.4	2.4		2.4	2.4				
24				2.0	2.0		2.0	2.0		2.4	2.4		2.4	2.4				
25				2.0	2.0		2.0	2.0		2.4	2.4		2.4	2.4				
26				2.0	2.0		2.0	2.0		2.4	2.4		2.4	2.4				
27				2.0	2.0		2.0	2.0		2.4	2.4		2.4	2.4				
28				2.0	2.0		2.0	2.0		2.4	2.4		2.4	2.4				
29				2.0	2.0		2.0	2.0		2.4	2.4		2.4	2.4				
30				2.0	2.0		2.0	2.0		2.4	2.4		2.4	2.4				
31				2.0	2.0		2.0	2.0		2.4	2.4		2.4	2.4	2.4			
Total				11.4	11.4		62.0	62.0		67.1	67.1		74.4	72.0	2.4	33.6	11.8	21.8
Acre-feet					23			123			133			148			67	
Priority Diverted					23			123			133			143			23	
Apport Diverted														5			43	
Appor diverted to date														5			48	
TBI acreage	124.00			176.90			189.60			189.60			189.60			189.60		
Apportioned	310			448			675			882			1126			1126		
Duty				0.13			0.64			0.70			0.76			0.35		

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				2.4		2.4	2.4		2.4										
2				2.4	2.4		2.4		2.4										
3				2.4	2.4		2.4		2.4										
4				2.4	2.4		0.5		0.5										
5				2.4	2.4														
6				2.4		2.4	1.8		1.8										
7				2.4		2.4	2.4		2.4										
8				2.4	2.4		0.8		0.8										
9				2.4		2.4													
10				2.4		2.4													
11				2.4		2.4													
12				2.4		2.4													
13				2.4		2.4													
14				2.4	2.4														
15				2.4		2.4													
16				2.4		2.4													
17				1.1		1.1													
18																			
19																			
20																			
21				1.4		1.4													
22				2.4		2.4													
23	1.4		1.4	2.4	2.4														
24	2.4	2.4		1.0		1.0													
25	2.4	2.4																	
26	2.4	2.4																	
27	2.4	2.4																	
28	2.4		2.4																
29	2.4	2.4		1.4		1.4													
30	2.4		2.4	2.4	2.4														
31	2.4	2.4		2.4	2.4														
Total	20.6	14.4	6.2	52.9	21.6	31.3	12.5		12.5										
Acre-feet		41			105			25											684
Priority Diverted		29			43														517
Apport Diverted		12			62			25											147
Appor diverted to date		60			122			147			147			147			147		147
TBI acreage	189.60			189.60			189.60			189.60			189.60			189.60			189.60
Apportioned	1126			1126			1126			1126			1126			1126			1126
Duty		0.22			0.55			0.13											3.50

1998

MONTEZUMA CANAL: 4,835.96 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	8.7	8.7		8.4	8.4		45.9	45.9		46.7	46.7		31.8	31.8		41.2	21.9	19.3
2	8.8	8.8		12.9	12.9		45.7	45.7		47.1	47.1		33.8	33.8		38.5	25.9	13.6
3	8.8	8.8		12.9	12.9		43.4	43.4		46.8	46.8		34.1	34.1		38.9	22.5	18.4
4	8.8	8.8		14.5	14.5		43.2	43.2		47.2	47.2		34.3	34.3		45.7	23.9	21.8
5	12.3	12.3		15.9	15.9		43.4	43.4		48.1	48.1		31.9	31.9		42.2	21.9	20.3
6	13.8	13.8		16.1	16.1		43.1	43.1		47.8	47.8		31.7	31.7		29.4	25.9	3.5
7	13.7	13.7		16.6	16.6		44.7	44.7		45.5	45.5		32.7	32.7		35.2	24.7	10.5
8	13.7	13.7		12.9	12.9		45.6	45.6		45.9	45.9		32.8	32.8		35.7	21.9	13.8
9	13.7	13.7		14.7	14.7		46.5	46.5		42.5	42.5		32.0	32.0		28.5	20.3	8.2
10	13.7	13.7		15.6	15.6		44.3	44.3		44.2	44.2		33.8	33.8		23.3	21.2	2.1
11	13.7	13.7		20.3	20.3		47.5	47.5		42.2	42.2		34.5	34.5		23.6	15.2	8.4
12	13.7	13.7		22.9	22.9		44.6	44.6		46.3	46.3		34.3	34.3		24.7	12.2	12.5
13	13.7	13.7		22.4	22.4		43.2	43.2		46.6	46.6		34.1	34.1		22.5	16.4	6.1
14	13.7	13.7		22.0	22.0		45.0	45.0		46.3	46.3		33.9	33.9		22.2	10.1	12.1
15	13.7	13.7		29.8	29.8		48.1	48.1		46.2	46.2		33.8	33.8		22.4	0.8	21.6
16	10.3	10.3		32.5	32.5		47.9	47.9		45.5	45.5		33.7	33.7		21.7		21.7
17	8.8	8.8		32.8	32.8		47.1	47.1		44.8	44.8		33.1	33.1		21.6	2.3	19.3
18	8.8	8.8		32.6	32.6		46.6	46.6		31.9	31.9		32.8	32.8		20.8		20.6
19	8.8	8.8		31.5	31.5		45.2	45.2		24.4	24.4		32.0	32.0		19.4		19.4
20	8.8	8.8		39.1	39.1		45.4	45.4		22.5	22.5		31.8	31.8		19.0		19.0
21	8.8	8.8		44.7	44.7		45.6	45.6		24.8	24.8		32.6	32.6		19.5		19.5
22	8.8	8.8		46.0	46.0		43.8	43.8		29.6	29.6		32.1	32.1		18.7		18.7
23	8.8	8.8		43.8	43.8		43.3	43.3		31.9	31.9		32.3	32.3		16.2		16.2
24	8.8	8.8		42.1	42.1		45.2	45.2		34.4	34.4		29.9	29.9		15.0		15.0
25	2.7	2.7		43.3	43.3		47.5	47.5		33.3	33.3		32.5	32.5		13.6		13.6
26				45.6	45.6		45.4	45.4		33.3	33.3		33.2	33.2		14.6		14.6
27				45.2	45.2		45.8	45.8		33.5	33.5		30.9	30.9		14.9		14.9
28				43.8	43.8		46.8	46.8		32.5	32.5		28.1	28.1		16.3		16.3
29							45.0	45.0		31.2	31.2		27.4	25.9	1.5	14.4		14.4
30							44.5	44.5		32.3	32.3		35.4	23.8	11.6	13.6		13.6
31							47.1	47.1					35.8	21.2	14.6			
Total	267.9	267.9		779.9	779.9		1406.2	1406.2		1171.1	1171.1		1012.9	985.2	27.7	734.1	287.1	447.0
Acra-foot		531			1547			2789			2323			2009			1456	
Priority Diverted		531			1547			2789			2323			1954			569	
Apport Diverted														55			887	
Apport diverted to date														55			942	
TBI acreage	2616.95			3699.45			3862.72			3886.77			3908.28			3918.47		
Apportioned	6542			9360			13751			18073			23254			23286		
Duty	0.20			0.38			0.70			0.59			0.50			0.36		

DAY	JUL			AUG			SEP			OCT			NOV			DEC			Totals
	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport	
1	12.5			46.2	17.3	28.9	44.8	17.8	27.0	17.1	10.3	10.3	17.1	10.3	10.3				
2	13.8			45.6	29.8	15.8	31.2	18.4	14.8	16.8		16.8	10.3	10.3		6.3	6.3		
3	13.8			43.6	37.6	6.0	24.0	17.8	6.2	18.8		16.8	10.3	10.3		8.7	8.7		
4	15.7			44.5	44.5		23.4	5.3	18.1	16.9		16.9	10.3	10.3		8.8	8.8		
5	19.0			44.9	24.3	20.6	21.3	10.1	11.2	16.8		16.8	10.3	10.3		8.8	8.8		
6	18.7			45.7	20.3	25.4	21.7	17.8	3.9	17.2		17.2	10.3	10.3		8.8	8.8		
7	12.0			46.4	20.3	26.1	22.1	16.1	6.0	16.4		16.4	10.3	10.3		8.7	8.7		
8	15.6			46.8	24.3	22.5	21.3	5.3	16.0	16.2		16.2	3.1	3.1		8.7	8.7		
9	19.4			44.5	18.6	25.9	19.7	0.8	18.9	18.8	0.8	16.0				8.7	8.7		
10	18.8	18.8		0.2	44.1	20.7	23.4	18.8		18.8	16.7		16.7			8.7	8.7		
11	23.9	18.8		5.3	46.1	18.8	27.5	18.7		18.7	17.4	0.8	16.6			8.7	8.7		
12	23.4			23.4	47.9	17.8	30.1	18.3		18.3	17.6		17.6			8.7	8.7		
13	21.6	18.2		3.4	41.0	18.2	22.8	18.6	6.5	12.1	17.8	0.8	17.0	6.5	6.5	8.7	8.7		
14	20.8	0.8		20.0	33.3	33.3		18.2		18.2	17.5	0.8	16.7	8.8	8.8	8.8	8.8		
15	21.5			21.5	28.3	17.8	10.5	18.3	0.8	17.5	17.5		17.5	8.9	8.9	8.8	8.8		
16	20.0			20.0	26.2	20.3	5.9	16.1		18.1	17.6		17.6	8.8	8.8		2.6	2.6	
17	19.0			19.0	24.1	21.9	2.2	17.9		17.9	17.8		17.8	9.1	9.1				
18	19.0			19.0	21.0	20.7	0.3	17.5		17.5	17.5		17.5	8.8	8.8				
19	17.5	5.3		12.2	18.2	17.3	0.9	17.5		17.5	17.4		17.4	8.8	8.8				
20	16.5			16.5	18.3	17.3	1.0	18.6		18.6	17.5		17.5	8.8	8.8		6.2	6.2	
21	20.1			20.1	28.0	12.2	15.8	17.9		17.9	17.9		17.9	8.8	8.8		8.7	8.7	
22	27.7			27.7	35.5	17.3	18.2	17.5		17.5	13.3		13.3	8.8	8.8		8.7	8.7	
23	46.1	2.3		43.8	34.2	25.9	8.3	17.4		17.4	10.3		10.3	8.8	8.8		8.7	8.7	
24	47.4	22.5		24.9	26.8	17.3	9.5	16.8		16.8	10.3		10.3	8.7	8.7		8.7	8.7	
25	46.0	46.0			21.1	16.1	5.0	16.8		16.8	10.3		10.3	8.7	8.7		8.7	8.7	
26	45.1	45.1		20.8	17.3	3.5	17.3		17.3	10.3	10.3		10.3	8.7	8.7		8.7	8.7	
27	44.9	37.6	7.3	21.6	16.1	5.5	17.5		17.5	10.3	10.3		10.3	8.7	8.7		14.9	14.9	
28	45.5	18.4	29.1	21.4	12.2	9.2	17.6		17.6	10.3	10.3		10.3	8.7	8.7		17.5	17.5	
29	45.5	29.8	15.7	28.8	10.1	18.7	17.1		17.1	10.3	10.3		10.3	8.7	8.7		26.4	26.4	
30	42.9	10.1	32.8	35.7	35.7		17.2		17.2	10.3	10.3		10.3	8.8	2.6		24.8	24.8	
31	45.0	25.9	19.1	40.7	25.9	14.8				10.3	10.3					11.5	11.5		
Total	818.7	297.2	521.5	1073.3	687.0	406.3	603.1	114.7	488.4	467.0	197.1	289.9	224.9	224.9		276.0	276.0		
Acra-foot		1824			2129			1196			926			446			547		17523
Priority Diverted		589			1323			228			391			446			547		13237
Apport Diverted		1034			806			969			535								4286
Apport diverted to date		1976			2782			3751			4286			4286			4286		4286
TBI acreage	3920.22			3920.22			3920.22			3920.22			3920.22			3920.22			3920.22
Apportioned	23286			23286			23286			23286			23286			23286			23286
Duty	0.41			0.54			0.31			0.24			0.11			0.14			4.47

1998

UNION CANAL: 7,371.68 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	20.6	20.6		6.0	6.0		72.8	72.8		74.3	74.3		41.2	41.2		71.1	54.8	16.3
2	4.7	4.7		8.8	8.8		74.3	74.3		74.3	74.3		41.2	41.2		76.4	60.0	16.4
3				8.8	8.8		74.3	74.3		74.3	74.3		41.2	41.2		76.4	56.9	19.5
4				8.8	8.8		74.3	74.3		74.3	74.3		41.2	41.2		76.4	58.6	17.8
5				8.8	8.8		74.3	74.3		74.3	74.3		41.2	41.2		74.6	54.8	19.8
6				8.8	8.8		74.3	74.3		74.3	74.3		41.2	41.2		64.3	60.0	4.3
7				8.8	8.8		74.3	74.3		74.3	74.3		41.2	41.2		60.3	59.9	0.4
8				41.5	41.5		74.3	74.3		74.3	74.3		41.2	41.2		60.3	54.8	5.5
9				55.0	55.0		74.3	74.3		74.3	74.3		41.2	41.2		60.1	43.0	17.1
10				55.0	55.0		74.3	74.3		74.3	74.3		41.2	41.2		60.0	49.7	10.3
11				65.6	65.6		74.3	74.3		74.3	74.3		41.2	41.2		60.0	10.1	49.9
12				70.0	70.0		74.3	74.3		74.3	74.3		41.2	41.2		60.0	10.0	50.0
13				70.0	70.0		74.3	74.3		75.1	75.1		41.2	41.2		57.9	14.4	43.5
14				70.0	70.0		74.3	74.3		75.4	75.4		41.2	41.2		56.9	6.6	50.3
15				70.0	70.0		74.3	74.3		75.4	75.4		41.2	41.2		56.6		56.6
16				70.0	70.0		74.3	74.3		75.4	75.4		41.2	41.2		56.4		56.4
17				70.0	70.0		74.3	74.3		75.4	75.4		41.2	41.2		56.4	2.8	53.6
18				70.0	70.0		74.3	74.3		75.4	75.4		41.2	41.2		48.6		48.6
19				70.0	70.0		74.3	74.3		70.5	70.5		41.2	41.2		44.7		44.7
20				70.0	70.0		74.3	74.3		68.7	68.7		41.2	41.2		44.7		44.7
21				70.0	70.0		74.3	74.3		68.7	68.7		41.2	41.2		44.7		44.7
22				70.0	70.0		74.3	74.3		68.7	68.7		41.2	41.2		44.7		44.7
23				70.0	70.0		74.3	74.3		68.7	68.7		41.2	41.2		33.1		33.1
24				70.0	70.0		74.3	74.3		58.4	58.4		41.2	41.2		26.5		26.5
25				70.0	70.0		74.3	74.3		55.0	55.0		41.2	41.2		26.5		26.5
26				70.0	70.0		74.3	74.3		55.0	55.0		41.2	41.2		26.5		26.5
27				70.0	70.0		74.3	74.3		55.0	55.0		41.2	41.2		23.3		23.3
28				70.0	70.0		74.3	74.3		55.0	55.0		51.3	51.3		16.7		16.7
29							74.3	74.3		55.0	55.0		55.0	55.0		14.4		14.4
30							74.3	74.3		44.7	44.7		55.0	55.0		14.4		14.4
31							74.3	74.3					55.0	49.6	-5.4			
Total	25.3	25.3		1465.9	1465.9		2301.8	2301.8		2067.1	2067.1		1328.7	1323.3	5.4	1492.9	596.4	896.5
Acres-feet			50			2908			4566			4100			2635			2981
Priority Diverted			50			2908			4566			4100			2825			1183
Apport Diverted															11			1778
Apport diverted to date															11			1789
TBI acreage		3818.13			5686.13			5981.25		6038.53			6104.42					6116.76
Apportioned		9545			14386			21293		28079			36321					36334
Duty		0.01			0.51			0.74		0.67			0.41					0.48

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	14.4			14.4	15.5	60.9	61.2	21.7	39.5	14.8						14.2	14.2		
2	14.4			14.4	76.4	60.2	60.4	14.4	46.0	14.4						14.4	14.4		
3	14.4			14.4	76.4	60.3	60.0	21.7	38.3	14.4						14.4	14.4		
4	15.1			15.1	76.4	74.8	1.6	55.9	4.0	51.9	14.4					14.4	14.4		
5	15.5			15.5	76.4	59.4	17.0	54.8	6.6	48.2	14.4					14.4	14.4		
6	15.5			15.5	76.4	43.0	33.4	56.2	21.7	34.5	15.1					15.1	15.1		
7	29.4			29.4	76.4	39.5	36.9	56.9	12.0	44.9	15.5					15.5	15.5		
8	39.5			39.5	76.4	59.4	17.0	47.8	4.0	43.8	15.5					15.5	15.5		
9	39.5			39.5	76.4	32.5	43.9	36.7		36.7	15.5					15.5	15.5		
10	39.5	32.5	7.0	76.4	44.7	31.7	32.5			32.5	15.5					15.5	15.5		
11	39.5	32.5	7.0	76.4	32.5	43.9	32.5			32.5	15.5					15.5	15.5		
12	43.0			43.0	66.4	21.7	44.7	25.5		25.5	15.5					15.5	15.5		
13	44.7	26.5		18.2	60.7	26.5	34.2	21.7	5.4	16.3	15.5					15.5	15.5		
14	44.7			44.7	60.2	60.2		24.6		24.6	15.5					15.5	15.5		
15	44.7			44.7	60.1	21.7	38.4	26.5		26.5	15.5					15.5	15.5		
16	36.8			36.8	60.0	39.5	20.5	19.4		19.4	15.5					15.5	15.5		
17	32.5			32.5	54.5	54.5		15.5		15.5	14.7					14.4	14.4		
18	32.5			32.5	46.7	44.7	2.0	15.5		15.5	14.4					14.4	14.4		
19	32.5	4.0		28.5	41.6	15.5	26.1	15.5		15.5	14.4					14.4	14.4		
20	32.5			32.5	39.5	15.5	24.0	15.5		15.5	14.4					14.4	14.4		
21	40.1			40.1	51.9	10.0	41.9	15.5		15.5	14.4					14.4	14.4		
22	44.7			44.7	60.3	15.5	44.8	15.5		15.5	14.4					14.4	14.4		
23	63.2			60.4	60.3	60.0	0.3	15.5		15.5	14.4					14.4	14.4		
24	76.4	56.9	19.5	57.1	15.5	41.6	15.5			15.5	14.4					14.4	14.4		
25	76.4	75.5	0.9	54.8	12.0	42.8	15.5			15.5	14.4					14.4	14.4		
26	76.4	76.4		54.8	15.5	39.3	15.5			15.5	14.3					12.4	12.4		
27	76.4	60.3	16.1	54.8	12.0	42.8	15.5			15.5	3.9					12.1	12.1		
28	76.4	14.4	62.0	49.1	10.0	39.1	15.5			15.5						12.9	12.9		
29	76.4	60.2	16.2	53.8	6.6	47.2	15.5			15.5						13.2	13.2		
30	76.4	6.6	69.8	60.3	60.3		15.5			15.5						13.9	13.9		
31	76.4	60.0	16.4	60.8	60.0	0.8										18.9	18.9		
Total	1379.8	508.6	871.2	1948.1	1089.0	849.1	889.6	111.5	778.1	390.6	148.1	242.5	85.7	85.7		533.2	533.2		
Acres-feet		2737			3864			1765		775			170					1058	27589
Priority Diverted		1609			2180			221		294			170					1058	20364
Apport Diverted		1728			1684			1543		481									7225
Apport diverted to date		3517			5201			6744		7225			7225					7225	7225
TBI acreage		6117.46			6117.46			6117.46		6117.46			6117.46					6117.46	6117.46
Apportioned		36338			36338			36338		36338			36338					36338	36338
Duty		0.45			0.63			0.29		0.13			0.03					0.17	4.51

1998

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							45.9	45.9		47.2	47.2		28.9	28.9				
2				23.7	23.7		46.0	46.0		47.7	47.7		30.4	30.4		33.7	22.1	11.6
3				30.1	30.1		46.2	46.2		47.2	47.2		30.6	30.6		36.8	16.1	20.7
4				28.9	28.9		46.0	46.0		48.0	48.0		31.0	31.0		37.1	18.4	18.7
5				28.9	28.9		46.4	46.4		47.0	47.0		20.0	20.0		35.1	13.4	21.7
6				30.9	30.9		46.4	46.4		47.4	47.4		15.1	15.1		29.9	22.1	7.8
7				38.3	38.3		46.5	46.5		47.8	47.8		15.3	15.3		28.4	21.1	7.3
8				39.2	39.2		46.5	46.5		47.1	47.1		15.1	15.1		29.3	13.4	15.9
9				42.5	42.5		47.0	47.0		48.1	48.1		15.4	15.4		25.0	10.1	14.9
10				45.2	45.2		47.0	47.0		47.2	47.2		14.8	14.8		22.1	12.4	9.7
11				45.2	45.2		46.0	46.0		45.2	45.2		3.0	3.0		21.6	1.0	20.6
12				45.4	45.4		48.0	48.0		41.7	41.7					22.2	0.8	21.4
13				45.8	45.8		48.2	48.2		46.9	46.9					17.9	1.9	16.0
14				46.0	46.0		48.3	48.3		48.2	48.2					16.0	0.7	15.3
15				46.0	46.0		48.5	48.5		48.1	48.1					15.7		15.7
16				46.4	46.4		48.1	48.1		48.0	48.0					15.5		15.5
17				46.5	46.5		47.5	47.5		47.6	47.6					15.0		15.0
18				45.9	45.9		48.3	48.3		47.9	47.9					12.1		12.1
19				45.8	45.8		48.0	48.0		47.6	47.6					10.6		10.6
20				46.6	46.6		46.8	46.8		46.2	46.2		26.2	26.2		10.5		10.5
21				45.9	45.9		46.0	46.0		47.9	47.9		30.3	30.3		9.9		9.9
22				45.6	45.6		45.7	45.7		47.6	47.6		29.7	29.7		9.7		9.7
23				45.7	45.7		47.6	47.6		47.9	47.9		25.3	25.3		6.4		6.4
24				45.3	45.3		48.6	48.6		48.5	48.5		19.1	19.1		5.0		5.0
25				46.0	46.0		48.2	48.2		48.0	48.0					4.7		4.7
26				46.7	46.7		48.1	48.1		44.1	44.1					4.9		4.9
27				46.1	46.1		47.8	47.8		47.0	47.0					4.9		4.9
28				46.4	46.4		46.6	46.6		31.0	31.0					3.0		3.0
29							46.0	46.0		25.5	25.5					2.1		2.1
30							46.7	46.7		25.3	25.3					2.3		2.3
31							47.5	47.5										
Total				1136.0	1136.0		1460.4	1460.4		1353.1	1353.1		350.2	350.2		467.4	153.5	333.9
Acra-feet						2253			2897			2884			695			967
Priority Diverted						2253			2897			2884			695			304
Apport Diverted																		662
Apport diverted to date																		662
TBI acreage			2924.72			3744.28			3885.32			3885.92			3890.58			3890.58
Apportioned			7312			9473			13832			18070			23149			23110
Duty						0.60			0.72			0.69			0.18			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	2.4		2.4	19.2	3.0	16.2	28.3	4.6	23.7	1.4		1.4				25.7	25.7		
2	2.1		2.1	17.7	17.7		23.0	1.9	21.1	2.2		2.2				24.6	1.9	22.7	
3	2.0		2.0	20.3	20.3		22.6	4.6	18.0	1.8		1.8				20.0	4.6	15.4	
4	3.3		3.3	21.5	21.5		15.9	0.4	15.5	1.7		1.7				17.8	17.8		
5	3.8		3.8	21.2	18.8	2.4	14.2	0.7	13.5	1.8		1.8				17.6	17.6		
6	3.3		3.3	21.5	10.1	11.4	14.6	4.8	10.0				10.5	10.5		17.3	17.3		
7	7.0		7.0	22.9	9.1	13.8	14.8	1.7	13.1				13.9	13.9		17.3	17.3		
8	7.2		7.2	22.2	18.8	3.4	12.2	0.4	11.8				14.2	14.2		17.3	17.3		
9	6.9		6.9	22.1	6.0	16.1	8.2		8.2				13.9	13.9		17.3	17.3		
10	8.2	6.0	2.2	21.7	10.7	11.0	6.3		6.3				14.5	14.5		17.3	17.3		
11	8.0	6.0	2.0	21.2	6.0	15.2	6.4		6.4				9.5	9.5		14.7	14.7		
12	10.2		10.2	21.3	4.6	16.7	5.8		5.8				6.5	6.5		10.9	10.9		
13	10.8	4.7	6.1	20.5	4.7	15.8	5.2	0.6	4.6				6.3	6.3		10.9	10.9		
14	10.2		10.2	18.8	16.8		4.6		4.6				6.3	6.3		11.1	11.1		
15	8.3		8.3	22.7	4.6	18.1	4.6		4.6				6.1	6.1		11.2	11.2		
16	4.5		4.5	21.8	9.1	12.7	3.5		3.5				5.8	5.8		11.2	11.2		
17	6.9		6.9	16.7	13.4	3.3	3.5		3.5				13.2	13.2		11.1	11.1		
18	6.9		6.9	12.1	10.7	1.4	3.1		3.1				18.4	18.4		10.9	10.9		
19	6.1	0.4	5.7	10.3	3.0	7.3	2.8		2.8				18.3	18.3		10.8	10.8		
20	6.0		6.0	10.0	3.0	7.0	3.8		3.8				18.2	18.2		11.0	11.0		
21	9.1		9.1	14.6	0.8	13.8	4.0		4.0				22.7	22.7		11.2	11.2		
22	12.0		12.0	19.9	3.0	16.9	4.4		4.4				24.9	24.9		11.4	11.4		
23	13.4		13.4	18.6	18.6		4.4		4.4				24.9	24.9		11.6	11.6		
24	16.7	16.1	0.6	16.2	3.0	13.2	4.5		4.5				24.7	24.7		11.6	11.6		
25	17.4	17.4		17.9	1.7	16.2	1.3		1.3				24.4	24.4		11.6	11.6		
26	17.3	17.3		17.7	3.0	14.7							24.6	24.6		11.6	11.6		
27	16.8	16.8		17.0	1.7	15.3							24.9	24.9		11.6	11.6		
28	17.7	1.9	15.8	13.3	0.8	12.5							24.6	18.4	6.2	15.2	15.2		
29	19.0	19.0		15.7	0.7	15.0							25.2	22.1	3.1	15.5	15.5		
30	19.3	0.7	18.6	19.3	19.3								26.5	16.1	10.4	14.4	14.4		
31	19.7	19.7		26.4	22.1	4.3										6.7	6.7		
Total	302.5	126.0	176.5	582.3	288.6	293.7	222.0	19.3	202.5	8.7		8.7	423.0	403.3	19.7	438.4	400.3	38.1	
Acra-feet			800			1155			440			17			839			870	
Priority Diverted			250			572			39						800			794	
Apport Diverted			350			583			402			17			39			76	
Apport diverted to date			1012			1595			1997			2014			2053			2129	
TBI acreage			3890.58			3890.58			3890.58			3890.58			3890.58			3890.58	
Apportioned			23110			23110			23110			23110			23110			23110	
Duty			0.15			0.30			0.11			0.00			0.22			0.22	

Diversion from North side of Gila River in NW1/4NE1/4, Sec. 9, T.7 S., R.28 E. Water-stage recorder and 8 ft. Parshall flume located in SW1/4SW1/4, Sec. 4, T.7 S., R.28 E. Record good

1998

SMITHVILLE CANAL: 2,549.33 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							26.7	26.7		29.3	29.1	0.2	27.9	27.9		17.3	17.3	
2							28.6	28.6		28.7	28.7		28.4	28.3	0.1	16.8	16.8	
3							27.9	27.9		28.5	28.5		28.1	28.1		16.8	16.8	
4							27.8	27.8		28.7	28.7		28.1	28.1		17.0	17.0	
5							27.5	27.5		28.7	28.7		28.4	28.4		15.8	15.8	
6							27.3	27.3		28.3	28.3		28.7	28.7		19.7	19.6	0.1
7							27.4	27.4		27.9	27.9		28.3	28.3		23.4	18.9	4.5
8	10.1	10.1					27.5	27.5		28.0	28.0		27.4	27.4		19.7	18.3	1.4
9	15.0	15.0		14.2	14.2		27.3	27.3		28.5	28.5		27.3	27.3		16.6	15.7	0.9
10	15.0	15.0		22.0	22.0		27.3	27.3		28.6	28.6		28.1	28.1		20.4	17.2	3.2
11	15.0	15.0		22.0	22.0		28.0	28.0		28.3	28.3		28.5	28.5		18.5		18.5
12	15.0	15.0		24.1	24.1		28.0	28.0		28.5	28.5		28.1	28.1		17.3		17.3
13	13.8	13.8		25.1	25.1		28.1	28.1		28.3	28.3		28.2	28.2		18.1	7.4	10.7
14	13.5	13.5		25.1	25.1		27.8	27.8		28.3	28.3		28.1	28.1		15.4		15.4
15	13.5	13.5		25.1	25.1		27.8	27.8		28.4	28.4		27.6	27.6		15.8		15.8
16	13.5	13.5		25.1	25.1		28.7	28.7		28.8	28.8		27.1	27.1		13.7		13.7
17	13.3	13.3		24.6	24.6		28.3	28.3		29.8	29.1	0.7	26.8	26.8		14.5		14.5
18	10.1	10.1		28.6	25.6		28.6	28.8		29.8	29.1	0.5	27.7	27.7		15.7		15.7
19				29.7	25.7		28.3	28.3		30.8	29.1	1.7	21.5	21.5		17.6		17.6
20				25.9	25.9		28.2	28.2		28.7	28.7		17.3	17.3		15.1		15.1
21				25.8	25.8		28.2	28.2		24.9	24.9		17.6	17.6		15.8		15.8
22				25.1	25.1		28.3	28.3		25.1	25.1		17.4	17.4		16.9		16.9
23				24.6	24.6		28.1	28.1		24.1	24.1		17.2	17.2		9.3		9.3
24				22.7	22.7		28.7	28.7		24.6	24.6		17.3	17.3		9.3		9.3
25				21.8	21.8		28.7	28.7		25.5	25.5		18.0	18.0		11.1		11.1
26				25.1	25.1		28.8	28.8		28.3	28.3		17.4	17.4		9.9		9.9
27				26.1	26.1		29.0	29.0		26.6	26.6		17.6	17.6		8.4		8.4
28				25.2	25.2		28.8	28.8		28.4	28.4		23.6	19.9	3.7	7.1		7.1
29							28.6	28.6		28.2	28.2		19.7	19.6	0.1	9.7		9.7
30							28.3	28.3		28.0	28.0		18.0	18.0		8.6		8.6
31							29.2	29.0	0.2				17.2	17.2				
Total	147.8	147.8		480.7	480.7		871.8	871.6	0.2	836.4	833.3	3.1	740.4	736.5	3.9	451.3	180.8	270.5
Acre-feet		293			953			1729			1659			1469			895	
Priority Diverted		293			953			1729			1653			1461			359	
Apport Diverted											6			8			537	
Appor diverted to date											6			14			551	
TBI acreage		1688.11			2291.71			2318.79			2327.80			2332.51			2336.26	
Apportioned		4220			5798			8255			10824			13878			13877	
Duty		0.17			0.37			0.74			0.71			0.63			0.38	

DAY	JUL			AUG			SEP			OCT			NOV			DEC			Totals
	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport	
1	9.3		9.3	18.9	10.3	8.6	18.0	12.0	6.0	5.0		5.0			27.8	27.8			
2	9.9		9.9	20.0	19.9	0.1	12.2	7.4	4.8	5.7		5.7			24.6	7.4	17.2		
3	10.7		10.7	28.1	20.5	7.6	17.1	12.0	5.1	9.0		9.0			25.1	12.0	13.1		
4	10.5		10.5	27.9	27.9		12.6	10.7	12.6	10.7		10.7			27.8	27.8			
5	11.0		11.0	28.6	18.9	9.7	18.7		18.7	12.4		12.4			28.9	26.9			
6	7.2		7.2	28.1	15.7	12.4	18.4	12.0	8.4	13.0		13.0			12.8	12.8			
7	14.2		14.2	28.9	14.8	13.8	14.4	4.0	10.4	10.1		10.1			2.5	2.5			
8	13.7		13.7	28.8	18.9	7.9	9.6		9.6	12.7		12.7							
9	12.5		12.5	26.1	13.9	12.2	9.8		9.8	12.3		12.3							
10	15.1	13.9	1.2	24.2	17.2	7.0	14.3		14.3	8.5		8.5							
11	13.8	13.8		20.6	13.9	6.7	13.9		13.9	4.4	4.4	11.6	11.6						
12	13.7		13.7	18.4	12.0	4.4	11.7		11.7	8.4	8.4	16.0	16.0						
13	16.7	12.9	3.8	17.1	12.9	4.2	13.8		13.8	10.2	10.2	24.1	24.1						
14	17.1		17.1	7.9	7.9		17.5		17.5	10.9	10.9	29.4	28.4						
15	14.8		14.8	12.3	12.0	0.3	7.8		7.8	11.4	11.4	28.0	28.0						
16	11.4		11.4	13.0	13.0		7.3		7.3	7.4	7.4	28.5	28.5						
17	8.6		8.6	10.6	10.6		11.7		11.7	5.3	5.3	26.5	26.5						
18	13.9		13.9	18.2	17.2	1.0	9.6		9.6	8.9	8.9	22.9	22.9						
19	17.1		17.1	17.0	10.3	6.7	8.3		8.3	12.2	12.2	26.2	26.2		9.2				
20	14.1		14.1	20.1	10.3	9.8	8.8		8.8	13.6	13.6	28.5	28.5		13.1	13.1			
21	19.1		19.1	12.2	12.2		8.9		8.9	15.0	15.0	28.5	28.5		12.0	12.0			
22	11.6		11.6	18.7	10.3	8.4	6.6		6.6	12.2	12.2	26.5	26.5		12.1	12.1			
23	14.4		14.4	19.4	19.4		9.4		9.4	8.7	8.7	28.5	28.5		12.2	12.2			
24	19.2	18.3	0.9	14.0	10.3	3.7	11.5		11.5	8.2	8.2	28.5	28.5		12.2	12.2			
25	20.0	20.0		22.8	4.0	18.8	7.9		7.9	8.1	8.1	28.0	28.0		10.5	10.5			
26	20.9	20.9		20.2	10.3	9.9	8.9		8.9	9.8	9.8	28.1	28.1		11.7	11.7			
27	20.7	20.5	0.2	19.2	4.0	15.2	10.1		10.1	11.3	11.3	27.9	27.9		13.3	13.3			
28	21.2	7.4	13.8	18.6		18.6	9.9		9.9	11.6	11.6	27.4	18.6	8.8	12.0	12.0			
29	20.2	19.9	0.3	24.0		24.0	10.1		10.1	3.3	3.3	27.5	19.6	7.9	11.4	11.4			
30	19.7		19.7	21.1	21.1		10.1		10.1			28.6	18.3	10.3	11.4	11.4			
31	18.7	18.7		19.7	19.6	0.1						12.2	12.2						
Total	461.0	166.3	294.7	820.4	397.1	223.3	348.9	47.4	301.5	280.3	128.2	152.1	522.2	495.2	27.0	300.8	270.5	30.3	
Acre-feet		914			1231			692		556		1036		982		597		12026	
Priority Diverted		330			788			94		254		982		9433		537		9433	
Apport Diverted		585			443			598		302		54		80		2593		2593	
Appor diverted to date		1136			1579			2177		2479		2533		2593		2593		2593	
TBI acreage		2336.66			2336.66			2336.66		2336.66		2336.66		2336.66		2336.66		2336.66	
Apportioned		13880			13880			13880		13880		13880		13880		13880		13880	
Duty		0.39			0.53			0.30		0.24		0.44		0.26		0.26		5.15	

Diversion from South side of Gile River in NE1/4NW1/4, Sec.1, T.7 S., R.29E. Water-stage recorder and 8 ft. Parshall flume located in NW1/4SW1/4, Sec.36, T.4 S., R.29E., which measures combined flow of Smithville and Dodge-Nevada Canals. Segregation made by Watermaster

Record good

c:123/saf98

1998

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							15.0	15.0		27.5	27.5		27.5	27.5		15.0	12.7	2.3
2							19.3	19.3		27.5	27.5		27.5	26.3	1.2	15.0	14.0	1.0
3							21.3	21.3		27.5	27.5		27.5	26.3	1.2	15.0	13.3	1.7
4							21.3	21.3		27.5	27.5		23.1	23.1		15.0	13.7	1.3
5							25.7	25.7		27.5	27.5		20.0	20.0		14.5	12.7	1.8
6							27.5	27.5		27.5	27.5		20.0	20.0		13.4	13.4	
7		9.9	9.9				27.5	27.5		27.5	27.5		20.0	20.0		14.7	13.7	1.0
8		15.0	15.0				27.5	27.5		27.5	27.5		20.0	20.0		15.7	12.7	3.0
9		15.0	15.0				27.5	27.5		27.5	27.5		20.0	20.0		12.1	9.5	2.6
10		15.0	15.0				27.5	27.5		27.5	27.5		20.0	20.0		13.1	11.6	1.5
11		15.0	15.0				27.5	27.5		27.5	27.5		20.0	20.0		14.0	1.1	12.9
12		15.0	15.0				27.5	27.5		27.5	27.5		20.0	20.0		12.6	1.0	11.6
13		15.0	15.0				27.5	27.5		27.5	27.5		20.0	20.0		12.2	3.0	9.2
14		15.0	15.0				27.5	27.5		27.5	27.5		20.0	20.0		13.0	0.9	12.1
15		15.0	15.0				27.5	27.5		27.5	27.5		20.0	20.0		13.3		13.3
16		15.0	15.0				27.5	27.5		27.5	27.5		20.0	20.0		13.3		13.3
17		15.0	15.0				27.5	27.5		27.5	27.5		20.0	20.0		13.3		13.3
18		5.8	5.8				27.5	27.5		27.5	27.5		20.0	20.0		10.9		10.9
19							27.5	27.5		27.5	27.5		20.0	20.0		10.5		10.5
20							27.5	27.5		27.5	27.5		20.0	20.0		9.7		9.7
21							27.5	27.5		27.5	27.5		20.0	20.0		10.2		10.2
22							27.5	27.5		27.5	27.5		20.0	20.0		5.8		5.8
23					10.2	10.2	27.5	27.5		27.5	27.5		20.0	20.0		5.6		5.6
24					15.0	15.0	27.5	27.5		27.5	27.5		20.0	20.0		6.3		6.3
25					15.0	15.0	27.5	27.5		27.5	27.5		20.0	20.0		6.3		6.3
26					15.0	15.0	27.5	27.5		27.5	27.5		20.0	20.0		6.3		6.3
27					15.0	15.0	27.5	27.5		27.5	27.5		20.0	20.0		6.3		6.3
28					15.0	15.0	27.5	27.5		27.5	27.5		17.1	14.2	2.9	5.4		5.4
29							27.5	27.5		27.5	27.5		15.0	14.0	1.0	5.8		5.8
30							27.5	27.5		27.5	27.5		15.0	13.7	1.3	4.7		4.7
31							27.5	27.5		27.5	27.5		15.0	11.6	3.4			
Total	185.7	185.7		85.2	85.2		817.6	817.6		825.0	825.0		627.7	616.7	11.0	329.0	133.3	195.7
Acres-foot		329			169			1622			1636			1245			653	
Priority Diverted		329			169			1622			1636			1223			264	
Apport Diverted														22			388	
Apport diverted to date														22			410	
TBI acreage		2156.50			2391.44			2391.44			2391.44			2391.44			2391.44	
Apportioned		5391			6050			8514			11120			14229			14205	
Duty		0.15			0.06			0.68			0.68			0.52			0.27	

DAY	JUL			AUG			SEP			OCT			NOV			DEC			Totals
	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport	
1	5.5		5.5	20.0	4.2	15.8	14.8	5.2	9.6	4.2		4.2				22.5	22.5		
2	5.2		5.2	20.0	14.2	5.8	12.3	3.0	9.3	4.2		4.2				22.5	3.0	19.5	
3	5.8		5.8	23.4	14.8	8.6	11.8	5.2	6.6	3.8		3.8				22.5	5.2	17.3	
4	6.3		6.3	25.0	16.9	8.1	9.6		9.6	3.6		3.6				22.5	16.9	5.6	
5	5.3		5.3	25.0	13.7	11.3	10.9	0.9	10.0	4.2		4.2	10.6	10.6		22.5	22.5		
6	4.9		4.9	25.0	9.5	15.5	12.1	5.2	6.9	5.5		5.5	15.8	15.8		22.5	22.5		
7	7.3		7.3	25.0	8.5	16.5	12.1	1.8	10.3	6.0		6.0	16.1	16.1		22.5	22.5		
8	8.5		8.5	25.0	13.7	11.3	7.5		7.5	6.0		6.0	16.0	16.0		11.0	11.0		
9	7.1		7.1	25.0	7.4	17.6	8.4		8.4	6.0		6.0	15.3	15.3					
10	7.9	7.4	0.5	25.0	10.5	14.5	8.5		8.5	6.0		6.0	15.5	15.5					
11	8.5	7.4	1.1	21.4	7.4	14.0	5.4		5.4	6.0		6.0	4.4	4.4					
12	8.5		8.5	15.2	5.2	10.0	3.8		3.8	5.5		5.5							
13	9.8	6.3	3.5	13.6	6.3	7.3	3.6		3.6	4.7		4.7				10.1	10.1		
14	10.5		10.5	9.6	9.6		3.6		3.6	4.7		4.7				14.8	14.8		
15	10.5		10.5	10.1	5.2	4.9	5.4		5.4	4.7		4.7							
16	10.5		10.5	11.3	8.5	2.8	4.0		4.0	4.7		4.7				14.0	14.0		
17	6.8		6.8	7.2	7.2		2.4		2.4	4.7	4.7					14.5	14.5		
18	6.5		6.5	11.1	10.5	0.6	2.4		2.4	4.7	4.7					8.3	8.3		
19	10.5		10.5	12.5	4.2	8.3	1.2		1.2	4.7	4.7								
20	10.5		10.5	13.7	4.2	9.5				4.7	4.7								
21	11.7		11.7	14.8	1.0	13.8				4.7	4.7								
22	13.4		13.4	14.8	4.2	10.6				1.8	1.8								
23	13.1		13.1	14.8	14.0	0.8													
24	15.0	13.3	1.7	11.3	4.2	7.1													
25	15.0	15.0		13.0	1.8	11.2							15.9	15.9					
26	15.0	15.0		14.8	4.2	10.6							22.5	22.5					
27	15.0	15.0		14.8	1.8	13.0							22.5	22.5					
28	15.0	3.0	12.0	13.0	1.0	12.0	2.7		2.7				22.5	13.7	8.8	10.2	10.2		
29	18.5	14.2	4.3	13.9	0.9	13.0	4.2		4.2				22.5	14.0	8.5	15.0	15.0		
30	20.0	0.9	19.1	14.8	14.8		4.2		4.2				22.5	13.3	9.2	15.0	15.0		
31	20.0	14.0	6.0	14.8	14.0	0.8										9.8	9.8		
Total	328.1	111.5	216.6	518.9	243.6	275.3	150.7	21.3	129.4	104.9	25.1	79.8	222.1	195.6	26.5	280.2	237.8	42.4	
Acres-foot		851			1029			299			208			441			556	8837	
Priority Diverted		221			483			42			50			388			472	6899	
Apport Diverted		430			546			257			158			53			84	1938	
Apport diverted to date		840			1388			1643			1801			1854			1938	1938	
TBI acreage		2391.44			2391.44			2391.44			2391.44			2391.44			2391.44	2391.44	
Apportioned		14205			14205			14205			14205			14205			14205	14205	
Duty		0.27			0.43			0.13			0.09			0.18			0.23	3.70	

1998

CURTIS CANAL: 1,971.70 acres

Mean daily diversions, cubic feet per second

DAY	JAN			FEB			MAR			APR			MAY			JUN		
	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.
1							18.2	18.2		20.8	20.8		21.0	21.0		21.8	18.1	3.5
2							17.2	17.2		20.9	20.9		21.0	21.0		21.1	18.1	3.0
3							19.7	19.7		21.0	21.0		20.8	20.8		20.8	18.1	2.7
4							21.0	21.0		21.0	21.0		8.5	8.5		21.4	18.1	3.3
5							21.0	21.0		21.0	21.0					21.0	18.1	2.9
6							20.7	20.7		21.0	21.0					20.6	18.1	2.4
7							20.8	20.8		21.0	21.0					17.4	17.4	
8							21.0	21.0		21.0	21.0		10.8	10.8		15.4	15.4	
9							21.3	21.3		21.0	21.0		13.8	13.8		20.4	16.2	4.2
10							21.3	21.3		21.0	21.0		13.7	13.7		20.8	17.8	3.0
11							21.0	21.0		21.0	21.0		15.0	15.0		20.8		20.8
12							21.1	21.1		20.7	20.7		15.3	15.3		20.8		20.8
13							21.7	21.7		20.8	20.8		15.4	15.4		21.1	0.4	20.7
14							21.7	21.7		20.5	20.5		15.3	15.3		21.3		21.3
15							21.9	21.9		21.0	21.0		18.8	18.8		20.5		20.5
16							21.3	21.3		20.6	20.6		20.8	20.8		20.3		20.3
17				12.3	12.3		20.4	20.4		20.8	20.8		21.0	21.0		20.4		20.4
18				20.4	20.4		20.1	20.1		20.9	20.9		21.0	21.0		20.2		20.2
19				19.6	19.6		21.8	21.8		21.0	21.0		21.2	21.2		20.2		20.2
20				20.3	20.3		21.3	21.3		20.9	20.9		21.3	21.3		18.2		18.2
21				21.0	21.0		20.3	20.3		21.1	21.1		21.3	21.3		18.1		18.1
22	10.0	10.0		20.9	20.9		20.2	20.2		21.7	21.7		21.4	21.3	0.1	17.9		17.9
23	14.2	14.2		20.7	20.7		20.5	20.5		21.7	21.7		21.2	21.2		16.7		16.7
24	14.2	14.2		20.7	20.7		21.0	21.0		21.5	21.5		21.2	21.2		17.8		17.8
25	14.2	14.2		19.7	19.7		21.0	21.0		21.6	21.6		21.0	21.0		18.2		18.2
26	6.1	6.1		24.0	21.9	2.1	21.3	21.3		21.5	21.5		21.0	21.0		16.6		16.6
27				21.6	21.6		21.4	21.4		20.9	20.9		21.2	21.2		16.8		16.8
28				18.3	18.3		21.5	21.5		20.8	20.8		21.1	18.2	2.9	17.2		17.2
29							21.2	21.2		20.8	20.8		21.3	18.1	3.2	17.0		17.0
30							20.8	20.8		20.8	20.8		21.6	18.1	3.5	15.9		15.9
31							20.7	20.7					21.4	17.8	3.6			
Total	58.7	58.7		239.5	237.4	2.1	644.2	644.2		629.7	629.7		528.2	514.9	13.3	576.4	175.8	400.6
Acre-feet		116			475			1278			1249			1048			1143	
Priority Diverted		116			471			1278			1249			1021			349	
Apport Diverted					4									26			795	
Apport diverted to date					4			4			4			30			825	
TBI acreage	1150.85			1748.15			1748.15		1748.15		1748.15		1751.96			1752.85		1752.85
Apportioned	2877			4423			6223		8129		10424		10424			10412		10412
Duty	0.10			0.24			0.73		0.71		0.59		0.59			0.65		0.65

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	18.6			18.6	21.4	1.2	20.2	20.0	4.3	15.7	4.9								
2	15.3			15.3	21.0	18.2	2.8	17.9	0.4	17.5	4.9								
3	15.2			15.2	21.2	18.2	3.0	17.6	4.3	13.3	4.8								
4	15.6			15.6	21.0	21.0		18.2		18.2	5.9								
5	14.9			14.9	20.8	18.1	2.7	17.3		17.3	6.2								
6	13.8			13.9	20.8	16.2	4.6	18.9	4.3	12.6	6.7								
7	16.8			16.8	21.1	14.9	6.2	16.8		16.8	6.4								
8	20.2			20.2	21.0	18.1	2.9	12.1		12.1	6.7								
9	18.0			18.0	21.0	13.8	7.2	10.4		10.4	6.5								
10	19.5	13.8		5.7	21.0	16.7	4.3	9.9		9.9	6.6								
11	19.7	13.8		5.9	19.9	13.8	6.1	5.2		5.2	7.1								
12	20.2			20.2	18.8	4.3	14.5	0.4		0.4	6.8								
13	19.1	11.5		7.6	18.5	11.5	7.0	0.2		0.2	2.0								
14	19.0			19.0	18.3	18.2	0.1	0.2		0.2									
15	17.3			17.3	18.0	4.3	13.7												
16	15.4			15.4	17.6	14.9	2.7												
17	14.9			14.9	15.8	15.6													
18	15.6			15.6	15.1	15.1													
19	15.5			15.5	13.9	1.2	12.7												
20	16.0			16.0	17.5	1.2	16.3												
21	18.4			18.4	21.7	21.7													
22	18.3			18.3	20.9	1.2	19.7												
23	19.9			19.9	20.5	18.1	2.4												
24	20.9	18.1		2.8	17.8	1.2	16.6	7.5		7.5									
25	20.1	20.1		20.3			20.3	12.2		12.2									
26	20.6	20.6		20.5	1.2	19.3	13.1			13.1									
27	20.3	18.2		2.1	19.8		19.8	13.4		13.4									
28	20.7	0.4		20.3	17.8		17.8	13.4		13.4									
29	21.1	18.1		3.0	22.0		22.0	10.7		10.7									
30	21.3			21.3	21.5	21.2	0.3	7.4		7.4									
31	21.6	18.1		3.5	21.1	18.1	3.0												
Total	561.9	152.7		409.2	607.4	317.5	289.8	240.8	13.3	227.5	75.5		75.5						
Acre-feet		1115			1205			478		150									8258
Priority Diverted		303			630			26											5443
Apport Diverted		812			575			451		150									2813
Apport diverted to date		1637			2212			2863		2813			2813						2813
TBI acreage	1752.85			1752.85			1752.85		1752.85		1752.85		1752.85			1752.85		1752.85	1752.85
Apportioned	10412			10412			10412		10412		10412		10412			10412		10412	10412
Duty		0.64			0.69			0.27		0.09									4.71

Diversions from North side of Gila River in SW¼SW¼, Sec.7, T.6S., R.23 E. Water-usage recorder and 9 ft. Parshall flume located in NW¼SE¼, Sec.12, T.8 S., R.24 E.
Record good

1998

FORT THOMAS CANAL: 3,155.70 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	18.8	18.8		14.7	14.7					33.5	33.5		26.0	26.0		29.7	5.9	23.8
2	19.0	19.0		14.7	14.7					33.7	33.7		28.9	28.9		28.0	12.2	15.8
3	19.4	19.4		10.5	10.5					33.4	33.4		34.3	32.6	1.7	21.2	5.9	15.3
4	19.1	19.1		7.4	7.4		4.7	4.7		34.0	34.0		33.7	32.6	1.1	17.4	8.2	9.2
5	21.1	21.1		7.4	7.4		5.9	5.9		33.6	33.6		33.1	33.1		33.1	5.9	27.2
6	26.0	26.0		3.3	3.3		21.1	21.1		34.8	34.8		33.2	33.2		33.8	12.2	21.6
7	25.4	25.4		2.6	2.6		35.1	35.1		34.0	34.0		32.0	32.0		31.9	8.7	23.2
8	24.3	24.3		3.7	3.7		34.3	34.3		32.5	32.5		29.1	29.1		32.1	5.9	26.2
9	23.8	23.8					33.7	33.7		33.6	33.6		27.6	27.6		26.5	5.2	21.3
10	22.8	22.8		6.6	6.6		34.5	34.5		33.8	33.8		26.4	26.4		29.4	5.9	23.5
11	21.5	21.5		10.1	10.1		34.2	34.2		34.0	34.0		25.4	25.4		31.5	1.0	30.5
12	23.4	23.4		9.7	9.7		33.6	33.6		32.9	32.9		23.1	23.1		32.9	1.0	31.9
13	25.6	25.6		9.2	9.2		33.6	33.6		33.7	33.7		22.3	22.3		29.8	1.0	28.8
14	25.0	25.0		9.3	9.3		34.1	34.1		34.2	34.2		21.9	21.9		35.2	1.0	34.2
15	24.5	24.5		9.3	9.3		35.2	35.2		33.6	33.6					33.0		33.0
16	24.4	24.4		9.4	9.4		35.3	35.3		33.6	33.6					32.3		32.3
17	24.2	24.2		9.3	9.3		34.6	34.6		34.2	34.2					28.1		28.1
18	23.9	23.9		8.7	8.7		35.1	35.1		33.5	33.5		21.0	21.0		20.5		20.5
19	23.9	23.9		3.3	3.3		34.6	34.6		32.5	32.5		33.9	32.6	1.3	26.7		26.7
20	23.8	23.8					34.0	34.0		32.2	32.2		33.2	32.6	0.6	19.3		19.3
21	23.4	23.4					33.8	33.8		33.2	33.2		32.8	32.6	0.2	27.4		27.4
22	23.4	23.4					33.0	33.0		31.2	31.2		33.2	32.6	0.6	25.3		25.3
23	23.6	23.6					33.8	33.8		31.3	31.3		32.4	32.4		19.5		19.5
24	13.9	13.9					34.4	34.4		35.2	35.2		31.9	31.9		20.2		20.2
25	9.8	9.8					34.7	34.7		34.3	34.3		32.1	32.1		24.5		24.5
26	9.8	9.8					35.1	35.1		34.9	34.9		30.5	30.5		20.0		20.0
27	9.3	9.3					34.3	34.3		34.5	34.5		34.0	32.6	1.4	15.9		15.9
28	9.8	9.8					34.6	34.6		33.0	33.0		33.4	16.8	16.6	12.9		12.9
29	14.4	14.4					34.4	34.4		32.6	32.6		32.5	12.2	20.3	12.7		12.7
30	14.6	14.6					33.0	33.0		30.8	30.8		31.5	8.2	23.3	9.6		9.6
31	14.7	14.7					33.2	33.2					30.8	5.9	24.9			
Total	626.6	626.6		149.2	149.2		887.9	887.9		1002.3	1002.3		840.2	748.2	92.0	760.4	80.0	680.4
Acra-feet		1243			296			1761			1988			1667			1508	
Priority Diverted		1243			286			1761			1988			1484			159	
Apport Diverted														182			1350	
Appor diverted to date														182			1532	
TBI acreage		2168.20			2689.02			2827.85			2827.85			2827.85			2827.9	
Apportioned		5421			6803			10067			13150			16826			16797	
Duty		0.57						0.59			0.70			0.59			0.53	

DAY	JUL			AUG			SEP			OCT			NOV			DEC			Totals
	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport	
1	9.8		9.8	29.4	1.4	28.0	31.8	2.7	29.9	4.6		4.6			10.1	10.1			
2	10.9		10.9	29.4	16.8	12.6	21.2	1.0	20.2	4.9		4.9	1.7	1.7	8.9	1.0	7.9		
3	9.6		9.6	29.2	23.7	5.5	11.7	2.7	9.0	4.5		4.5	7.3	7.3	13.0	2.7	10.3		
4	9.5		9.5	29.1	29.1		12.7		12.7	8.5		8.5	5.6	5.6	17.1	17.1			
5	7.1		7.1	28.1	8.2	20.9	16.7	1.0	14.7	6.5		6.5	4.2	4.2	17.2	17.2			
6	9.4		9.4	29.1	5.2	23.9	18.7	2.7	16.0	7.9		7.9	7.0	7.0	17.2	17.2			
7	15.3		15.3	28.9	5.2	23.7	23.6	1.0	22.6	5.9		5.9	6.8	6.8	17.6	17.6			
8	33.8		33.8	28.7	8.2	20.5	15.6		15.6	4.3		4.3	7.0	7.0	6.1	6.1			
9	24.2		24.2	28.7	4.1	24.6	13.1		13.1	4.8		4.8	7.2	7.2					
10	24.1	4.1	20.0	28.3	5.4	22.9	13.7		13.7	4.9		4.9	7.2	7.2					
11	28.5	4.1	24.4	25.5	4.1	21.4	18.0		18.0	9.2		9.2	7.2	7.2	9.5	9.5			
12	20.0		20.0	23.5	2.7	20.8	15.0		15.0	14.2		14.2	2.8	2.8	14.5	14.5			
13	31.5	4.1	27.4	24.0	4.1	19.9	16.2	0.4	15.8	12.7		12.7			14.6	14.6			
14	15.8		15.8	14.1	14.1		14.8		14.8	17.2		17.2			19.4	19.4			
15	12.7		12.7	12.3	2.7	9.6	10.9		10.9	14.7		14.7			22.5	22.5			
16	8.1		8.1	11.1	5.2	5.9	10.6		10.6	15.6		15.6			24.0	24.0			
17	7.2		7.2	12.7	5.9	6.8	9.9		9.9	18.8	4.1	14.7			25.3	25.3			
18	6.6		6.6	15.9	5.4	10.5	15.6		15.6	20.0	8.7	11.3			28.8	28.8			
19	16.0		16.0	14.8	1.4	13.4	18.0		18.0	22.0	22.0				30.0	30.0			
20	21.1		21.1	14.4	1.4	13.0	16.8		16.8	21.1	21.1				29.1	29.1			
21	22.7		22.7	26.6	1.0	27.6	13.1		13.1	23.1	23.1				28.9	28.9			
22	34.9		34.9	25.7	1.4	24.3	12.1		12.1	12.9	12.9		2.3	2.3	29.8	29.8			
23	36.9		36.9	24.3	12.2	12.1	15.1		15.1	0.8	0.8		7.2	7.2	30.6	30.6			
24	32.0	5.9	26.1	19.7	1.4	18.3	12.5		12.5				6.1	6.1	30.7	30.7			
25	30.3	30.3		19.3	1.0	18.3	8.1		8.1				6.8	6.8	30.1	30.1			
26	30.7	30.7		20.4	1.4	19.0	8.1		8.1				9.1	9.1	29.8	29.8			
27	30.9	23.7	7.2	20.8	1.0	19.8	7.0		7.0				8.2	8.2	29.3	29.3			
28	30.9	1.0	29.9	16.7	1.0	15.7	8.4		8.4				6.9	6.9	28.2	28.2			
29	30.6	16.8	13.8	25.4	1.0	24.4	4.7		4.7				5.9	5.9	26.8	26.8			
30	29.6	1.0	28.6	30.1	27.0	3.1	2.4		2.4				6.3	5.9	0.4	25.6	25.6		
31	28.4	12.2	17.2	32.9	12.2	20.7									23.8	23.8			
Total	660.1	133.9	526.2	721.9	214.9	507.0	412.9	11.5	401.4	259.1	92.7	166.4	122.8	122.4	0.4	638.5	620.3	18.2	
Acra-feet		1309			1432			619			514			244			1266		14046
Priority Diverted		266			426			23			184			243			1230		9303
Apport Diverted		1044			1006			796			330			1			36		4745
Appor diverted to date		2576			3582			4378			4708			4709			4745		4745
TBI acreage		2827.85			2827.85			2827.85			2827.86			2827.85			2827.85		2827.85
Apportioned		16797			16797			16797			16797			16797			16797		16797
Duty		0.46			0.51			0.26			0.18			0.09			0.45		4.97

Diversions from South Side of Gila River in NE¼NW¼, Sec. 4, T. 6 S., R. 24 E. Water-stage recorder and 6 ft. flume located in SE¼SW¼, Sec. 32, T. 5 S., R. 24 E. Record good

1998

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										1.9	1.9		1.6	1.6				
2										1.9	1.9		0.9	0.9				
3										1.9	1.9		1.0	1.0				
4										1.9	1.9		1.6	1.6				
5										1.9	1.9		1.4	1.4				
6										1.9	1.9		1.3	1.3				
7										1.9	1.9		1.3	1.3				
8										1.9	1.9		1.3	1.3		1.4		1.4
9										1.9	1.9		0.5	0.5		1.9		1.9
10										1.8	1.8					1.5		1.5
11										1.8	1.8					1.6		1.6
12										1.8	1.8					1.6		1.6
13							0.8	0.8		1.7	1.7							
14							1.8	1.8		1.7	1.7		0.9	0.9				
15							1.8	1.8		1.8	1.8		1.5	1.5				
16							1.5	1.5		0.9	0.9		1.4	1.4		0.5		0.5
17							1.1	1.1					1.3	1.3		1.6		1.6
18							1.5	1.5					1.0	1.0		1.8		1.8
19							1.0	1.0					0.9	0.9		2.0		2.0
20							1.9	1.9					0.9	0.9		2.0		2.0
21							1.9	1.9					0.9	0.9		2.0		2.0
22							1.8	1.8					0.9	0.9		2.0		2.0
23							1.8	1.8					0.5	0.5		2.0		2.0
24							1.2	1.2								2.0		2.0
25							1.9	1.9								2.1		2.1
26							1.9	1.9								2.0		2.0
27							1.9	1.9								2.0		2.0
28							1.9	1.9		0.7	0.7					1.9		1.9
29							0.7	0.7		1.7	1.7					2.0		2.0
30							1.2	1.2		1.5	1.5					1.9		1.9
31							1.9	1.9										
Total							29.5	29.5		32.5	32.5		21.1	21.1		35.8		35.8
Acre-feet								59			64			42			71	
Priority Diverted								59			64			42				
Apport Diverted																	71	
Apport diverted to date																	71	
TBI acreage		165.50			165.50			165.50			165.50			165.50			165.50	
Apportioned		414			419			589			770			985			983	
Duty								0.36			0.39			0.25			0.43	

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	1.9			1.9	0.9	0.9													
2	1.9			1.9	0.9	0.3	0.6												
3	1.9			1.9	0.9	0.3	0.6												
4	1.9			1.9	0.9	0.9													
5	1.9			1.9	0.9		0.9												
6	1.9			1.9	0.9	0.9	0.9												
7	1.9			1.9	0.9		0.9												
8	1.4			1.4	0.9	0.9	0.9												
9					0.9		0.9												
10																			
11					0.2		0.2												
12					0.3		0.3												
13	1.9			1.9	0.3		0.3												
14	1.9			1.9	0.5	0.3	0.2												
15	2.0			2.0	0.4		0.4												
16	2.0			2.0	0.1		0.1												
17	2.0			2.0	0.2		0.2												
18	1.0			1.0															
19																			
20	1.4			1.4	0.2		0.2												
21	1.9			1.9	0.4		0.4												
22	1.9			1.9	0.5		0.5												
23	2.0			2.0	0.5	0.3	0.2												
24	1.9			1.9	0.4		0.4												
25	1.9		1.7	0.2	0.4		0.4												
26	0.9		0.9		0.7		0.7												
27					0.7		0.7												
28					0.5		0.5												
29																			
30	0.9			0.9															
31	0.9		0.3	0.6															
Total	39.2	2.9	36.3	14.4	2.1	12.3													
Acre-feet		78			29														342
Priority Diverted		6			4														175
Apport Diverted		72			24														167
Apport diverted to date		143			167			167			167			167			167		167
TBI acreage		165.50			165.50			165.50			165.50			165.50			165.50		165.50
Apportioned		983			983			983			983			983			983		983
Duty		0.47			0.17														2.07

Diversions from North side of Gila River in SE1/4SW1/4, Sec.28, T.4 S., R.23 E. Water-stage recorder and 2 ft. Parshall flume located in SE1/4SW1/4, Sec.28, T.4 S., R.23 E. Record good

1998

SAN CARLOS APACHE TRIBE: 1,000.0 acres

Total Monthly 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							1.2	1.2		0.5	0.5		11.2	11.2		9.6	9.6			
Acra-feet								2		1			22			19				
Apport Diverted								2		1			22			19				
Appor diverted to date																				
TBI acreage		301.53			301.53			301.53			301.53			301.53			301.53			
Apportioned								0.01			0.00			0.07			0.06			
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	0.3	0.3		2.1	2.1		2.1	2.1		4.9	4.9		14.2	14.2		7.3	7.3			
Acra-feet		1			4			4			10			28			14			105
Priority Diverted		1			4			4			10			28			14			105
Apport Diverted																				
Appor diverted to date																				
TBI acreage		301.53			301.53			301.53			301.53			301.53			301.53			301.53
Apportioned								0.01			0.03			0.09			0.05			0.35
Duty		0.00			0.01			0.01			0.03			0.09			0.05			0.35

1998

ASARCO INCORPORATED

Pumping for Industrial, Municipal, Domestic, and related beneficial purposes.

Month	Total Gallons Pumped	Equivalent Acre-feet
January	266,244,100	817
February	248,289,100	762
March	251,973,900	773
April	293,707,500	901
May	361,013,300	1,108
June	382,706,500	1,174
July	419,298,500	1,287
August	344,636,000	1,058
September	255,307,500	784
October	268,869,500	825
November	340,018,900	1,043
December	291,163,900	894
Total for year 1998	3,723,228,700	11,426

1998

ASARCO INCORPORATED (J. J. ANDERSON): 196.27 acres

Mean daily diversions, cubic feet per second

DAY	JAN			FEB			MAR			APR			MAY			JUN		
	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.
1	0.24	0.24		1.29	1.29					3.61	1.98	1.63	2.51	1.98	0.53			
2	0.24	0.24		1.29	1.29					3.61	1.98	1.63	2.51	1.87	0.64			
3	0.24	0.24		1.29	1.29					3.61	1.98	1.63	2.51	1.87	0.64			
4	0.24	0.24		1.29	1.29					3.61	1.98	1.63	2.51	1.44	1.07			
5	0.24	0.24								3.61	1.98	1.63	2.51	1.44	1.07			
6	0.24	0.24								3.61	1.98	1.63	2.51	1.44	1.07			
7	0.24	0.24								3.62	1.98	1.64	2.51	1.98	0.53			
8	0.24	0.24								3.62	1.98	1.64	2.51	1.87	0.64			
9	0.24	0.24								3.62	1.98	1.64	2.51	1.87	0.64			
10										3.62	1.98	1.64	2.51	1.98	0.53			
11										3.62	1.98	1.64	2.51	1.98	0.53			
12										3.62	1.98	1.64	2.51	1.87	0.64			
13										3.62	1.98	1.64	2.50	1.98	0.52			
14													2.50	1.98	0.52			
15													2.50	1.98	0.52			
16							2.81	2.00	0.81				2.50	1.44	1.06			
17							2.81	2.00	0.81				2.50	1.44	1.06			
18							2.81	2.00	0.81									
19							2.81	2.00	0.81									
20							2.81	2.00	0.81									
21							2.81	2.00	0.81									
22							2.81	2.00	0.81									
23				1.29	1.29		2.81	2.00	0.81									
24				1.29	1.29		2.81	2.00	0.81									
25				1.29	1.29		2.81	2.00	0.81									
26				1.29	1.29		2.81	2.00	0.81									
27				1.29	1.29		2.81	2.00	0.81									
28							2.81	2.00	0.81									
29																		
30	0.24	0.24																
31	0.24	0.24																
Total	2.6	2.6		11.6	11.6		36.5	26.0	10.5	47.0	25.7	21.3	42.6	30.4	12.2			
Acre-feet		5			23			72			93			85				
Priority Diverted		5			23			52			51			60				
Apport Diverted								21			42			24				
Appor diverted to date								21			63			87				87
TBI acreage		158.00			158.00			158.00			158.00			158.00				158.00
Apportioned		395			400			562			735			940				939
Duty		0.03			0.15			0.46			0.59			0.53				

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																1.99	1.44	0.55	
8																1.99	1.44	0.55	
9																1.99	1.44	0.55	
10																1.99	1.44	0.55	
11																1.99	1.44	0.55	
12																1.99	1.44	0.55	
13																1.99	1.44	0.55	
14																1.99	1.44	0.55	
15																1.99	1.44	0.55	
16																1.99	1.44	0.55	
17																1.99	1.44	0.55	
18																			
19																			
20																			
21																			
22																			
23																			
24																			
25																			
26																			
27																			
28																			
29																			
30																			
31																			
Total																21.9	15.8	6.1	
Acre-feet																		43	320
Priority Diverted																		31	221
Apport Diverted																		12	99
Appor diverted to date																		99	99
TBI acreage		158.00			158.00			158.00			158.00			158.00				158.00	158.00
Apportioned		939			939			939			939			939				939	939
Duty																		0.27	2.03

1998

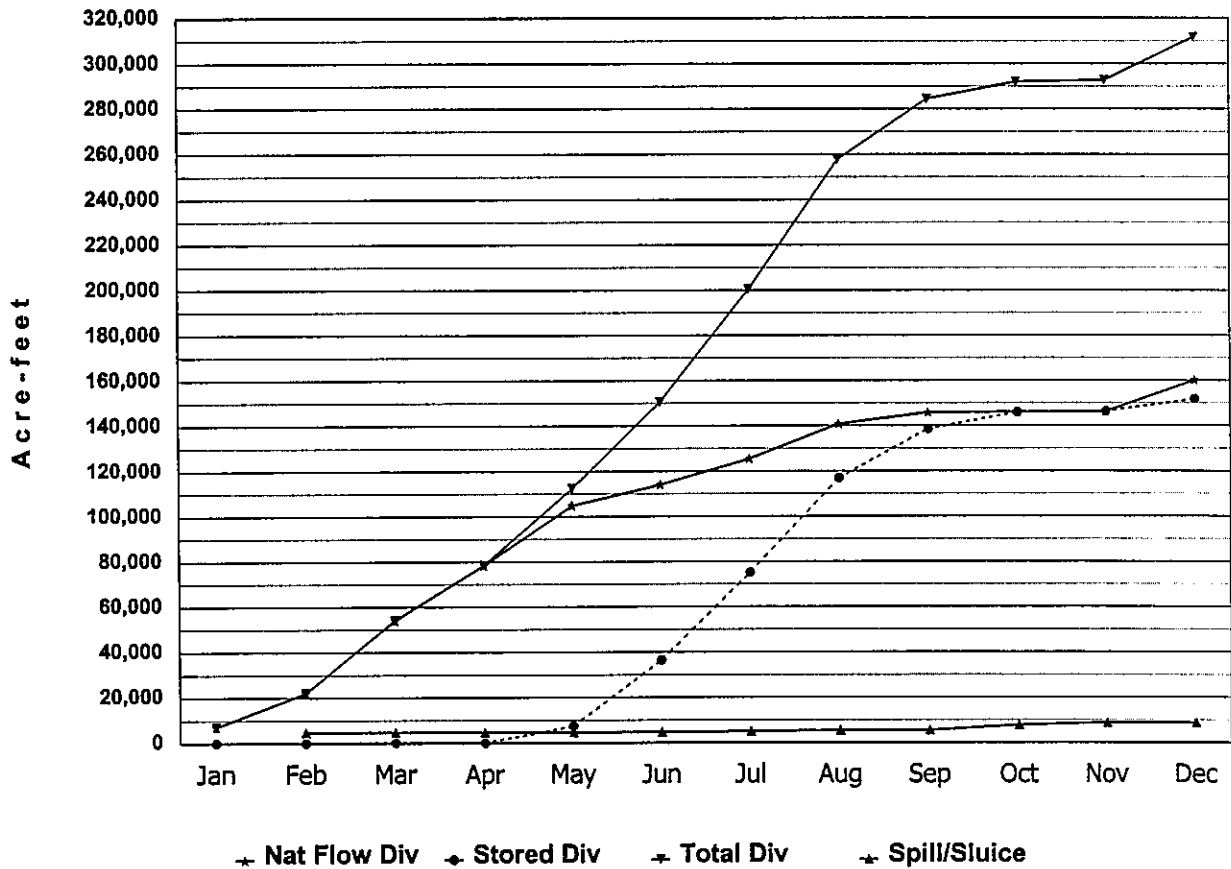
MASS DIAGRAM OF SAN CARLOS PROJECT

DIVERSIONS AT ASHURST-HAYDEN DAM

In Acre-feet

Month	Accumulated		Monthly Total Diversions	Accumulated	
	Natural Flow Diversions	Stored Water Diversions		Total Diversions	Spilled and Sluiced
JAN	7,039		7,039	7,039	
FEB	21,979		14,940	21,979	4743
MAR	53,957	71	32,049	54,028	
APR	78,297	71	24,340	78,368	
MAY	104,808	7,464	33,904	112,272	
JUN	114,049	36,481	38,258	150,530	
JUL	125,333	75,005	49,808	200,338	5112
AUG	140,650	116,942	57,254	257,592	5443
SEP	145,801	138,548	26,757	284,349	
OCT	145,966	145,877	7,494	291,843	7,706
NOV	146,133	146,385	675	292,518	8,775
DEC	159,942	151,770	19,194	311,712	8,858

Graph: Nat Flow Div Stored Div Total Div Spill/Sluice



SAN CARLOS IRRIGATION PROJECT DIVERSIONS at ASHURST-HAYDEN DAM

Original Decreed 102,090.5 Acres

Mean daily diversions - cubic feet per second

1998

JANUARY

T.B.I. Acres - 38,839.88

1998	Diverter			Passing Dam		
	Total	Stored	NatFlow	Spill	Sluice	
1	147		147			
2	137		137			
3	133		133			
4	109		109			
5	73		73			
6	60		60			
7	51		51			
8	44		44			
9	40		40			
10	85		85			
11	129		129			
12	151		151			
13	166		166			
14	167		167			
15	166		166			
16	162		162			
17	181		181			
18	157		157			
19	155		155			
20	143		143			
21	130		130			
22	113		113			
23	103		103			
24	100		100			
25	98		98			
26	94		94			
27	93		93			
28	93		93			
29	93		93			
30	93		93			
31	103		103			
Total	3549		3549			
Ac-ft	7039		7039			
To Date	7039		7039			
Duty	0.18					

FEBRUARY

T.B.I. Acres - 45,565.53

1998	Diverter			Passing Dam		
	Total	Stored	NatFlow	Spill	Sluice	
1	104		104			
2	106		106			
3	106		106			
4	114		114			
5	280		280			
6	249		249			
7	139		139			
8	99		99			
9	214		214	299		
10	600		600	329		
11	553		553			
12	247		247			
13	150		150			
14	111		111			
15	218		218			
16	397		397			
17	249		249			
18	566		566	188		
19	657		657	247		
20	580		580	75		
21	284		284	155		
22	353		353	146		
23	397		397			
24	185		185	105		
25	3		3	320		
26	127		127	415		
27	155		155	115		
28	289		289			
29						
30						
31						
Total	7532		7532	2394		
Ac-ft	14940		14940	4743		
To Date	21979		21979	4743		
Duty	0.48					

MARCH

T.B.I. Acres - 51,185.00

1998	Diverter			Passing Dam		
	Total	Stored	NatFlow	Spill	Sluice	
1	216		216			
2	171		171			
3	151		151			
4	131		131			
5	149		179			
6	239		239			
7	370		370			
8	404		404			
9	429		429			
10	454		454			
11	541		541			
12	601		601			
13	589		589			
14	598	4	594			
15	605	24	581			
16	613	8	605			
17	626		626			
18	674		674			
19	622		622			
20	595		595			
21	561		561			
22	528		528			
23	531		531			
24	570		570			
25	624		624			
26	658		658			
27	737		737			
28	737		737			
29	669		669			
30	841		841			
31	894		894			
Total	16128	36	16122			
Ac-ft	32049	71	31978			
To Date	54028	71	53957			
Duty	1.06			4743		

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...

SAN CARLOS IRRIGATION PROJECT DIVERSIONS at ASHURST-HAYDEN DAM

Original Decreed 102,090.5 Acres

Mean daily diversions - cubic feet per second

1998

APRIL

T.B.I. Acres - 53,017.28

MAY

T.B.I. Acres - 55,017.81

JUNE

T.B.I. Acres - 58,367.82

	Diversed			Passing Dam		
	Total	Stored	Nat Flow	Spill	Sluice	
1998						
1	497		497			
2	375		375			
3	410		410			
4	424		424			
5	391		391			
6	375		375			
7	336		336			
8	322		322			
9	353		353			
10	398		398			
11	412		412			
12	409		409			
13	407		407			
14	410		410			
15	411		411			
16	410		410			
17	405		405			
18	400		400			
19	397		397			
20	395		395			
21	392		392			
22	389		389			
23	387		387			
24	391		391			
25	411		411			
26	447		447			
27	476		476			
28	480		480			
29	480		480			
30	481		481			
31						
Total	12271		12271			
Ac-ft	24340		24340			
To Date	78368	71	78297			4743
Duty	1.48					

	Diversed			Passing Dam		
	Total	Stored	Nat Flow	Spill	Sluice	
1	513		513			
2	511		511			
3	511		511			
4	510		510			
5	531		531			
6	560		560			
7	583		583			
8	565		565			
9	582		582			
10	557	13	544			
11	560	39	521			
12	557	48	509			
13	560	75	485			
14	532	52	480			
15	497	54	443			
16	491	65	426			
17	493	71	422			
18	490	77	413			
19	507	120	387			
20	536	161	375			
21	540	207	333			
22	560	233	327			
23	586	275	311			
24	617	310	307			
25	620	305	315			
26	620	312	308			
27	618	332	286			
28	618	334	284			
29	607	326	281			
30	591	318	273			
31						
Total	17093	3727	13366			
Ac-ft	33904	7393	26511			
To Date	112272	7464	104808			4743
Duty	2.04					

	Diversed			Passing Dam		
	Total	Stored	Nat Flow	Spill	Sluice	
1	620	333	287			
2	618	348	270			
3	612	358	254			
4	579	319	260			
5	540	300	240			
6	532	310	222			
7	545	347	198			
8	580	390	190			
9	605	420	185			
10	614	434	180			
11	621	444	177			
12	616	453	163			
13	613	464	149			
14	629	495	134			
15	650	517	133			
16	651	526	125			
17	647	532	115			
18	657	546	111			
19	673	554	119			
20	676	554	122			
21	675	559	116			
22	671	559	112			
23	685	584	101			
24	709	596	113			
25	710	599	111			
26	709	610	99			
27	710	605	105			
28	704	611	93			
29	705	620	85			
30	732	642	90			
31						
Total	19288	14629	4659			
Ac-ft	38258	29017	9241			
To Date	150530	36481	114049			4743
Duty	2.70					

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

SAN CARLOS IRRIGATION PROJECT DIVERSIONS at ASHURST-HAYDEN DAM

Original Decreed 102,090.5 Acres

Mean daily diversions - cubic feet per second

1998

JULY

T.B.I. Acres - 56,142.25

AUGUST

T.B.I. Acres - 56,216.71

SEPTEMBER

T.B.I. Acres - 56,196.34

1998	Diverted			Passing Dam		
	Total	Stored	Nat Flow	Spill	Sluice	
1	771	678	93			
2	814	734	80			
3	859	760	99			
4	846	753	93			
5	858	754	104			
6	889	750	119			
7	856	728	128			
8	885	708	177			
9	848	699	149			
10	784	605	189			
11	738	598	140			
12	724	604	120			
13	714	608	108			
14	750	659	91			
15	800	690	110			
16	801	694	107			
17	821	725	96			
18	850	737	113			
19	851	737	114			
20	874	775	99			
21	914	784	120			
22	934	749	185		26	
23	789	716	53		147	
24	841	601	240		13	
25	736	359	377			
26	753	90	663			
27	742	270	472			
28	751	303	448			
29	766	468	298			
30	782	543	239			
31	800	533	267			
Total	25111	19422	5689		186	
Ac-ft	49808	38524	11284		369	
To Date	200338	75005	125333	4743	369	
Duty	3.57					

1998	Diverted			Passing Dam		
	Total	Stored	Nat Flow	Spill	Sluice	
1	828	626	202			
2	917	642	275			
3	941	583	358			
4	949	594	355			
5	916	605	311			
6	920	651	269			
7	950	700	250			
8	987	738	249			
9	1000	747	253			
10	1030	754	276			
11	956	733	223			
12	945	700	245			
13	931	696	235			
14	976	705	271	15		
15	973	709	264			
16	928	702	226	152		
17	1020	639	381			
18	965	700	285			
19	1000	725	275			
20	951	732	219			
21	918	714	204			
22	901	719	182			
23	901	682	219			
24	895	704	191			
25	914	686	228			
26	915	680	235			
27	892	676	216			
28	868	678	190			
29	854	686	168			
30	867	607	260			
31	857	630	227			
Total	28865	21143	7722	167		
Ac-ft	57254	41937	15317	331		
To Date	257592	116942	140650	5074	369	
Duty	4.58					

1998	Diverted			Passing Dam		
	Total	Stored	Nat Flow	Spill	Sluice	
1	822	607	215			
2	805	617	188			
3	787	613	174			
4	760	608	152			
5	782	580	212			
6	798	520	278			
7	668	486	182			
8	606	478	128			
9	583	458	125			
10	556	405	151			
11	471	313	158			
12	391	289	102			
13	367	275	92			
14	342	272	70			
15	330	276	54			
16	321	277	44			
17	318	283	35			
18	322	283	39			
19	322	287	35			
20	320	285	35			
21	310	285	25			
22	299	289	10			
23	301	278	23			
24	284	269	15			
25	279	268	11			
26	277	270	7			
27	274	270	4			
28	272	270	2			
29	269	246	23			
30	244	236	8			
Total	13490	10893	2597			
Ac-ft	26757	21606	5151			
To Date	284349	138548	145801	5074	369	
Duty	5.06					

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

SAN CARLOS IRRIGATION PROJECT DIVERSIONS at ASHURST-HAYDEN DAM

Original Decreed 102,090.5 Acres
 Mean daily diversions - cubic feet per second

1998

OCTOBER

T.B.I. Acres - 56,033.64

NOVEMBER

T.B.I. Acres - 56,245.19

DECEMBER

T.B.I. Acres - 56,308.99

	Diverter			Passing Dam		
	Total	Stored	Nat Flow	Spill	Sluice	
1998						
1	230	230				
2	229	228				
3	228	228				
4	221	221				
5	221	221				
6	221	221				
7	227	227				
8	234	228	6			
9	237	228	9			
10	236	225	11			
11	235	227	8			
12	236	231	5			
13	235	231	4			
14	234	231	3			
15	233	231	2			
16	231	229	2			
17	92	59	33	136		
18				105		
19				105		
20				93		
21				93		
22				85		
23				85		
24				67		
25				67		
26				67		
27				58		
28				45		
29				45		
30				45		
31				45		
Total	3778	3695	83	1141		
Ac-ft	7484	7329	165	2263		
To Date	291843	145877	145966	7337		369
Duty	5.21					

	Diverter			Passing Dam		
	Total	Stored	Nat Flow	Spill	Sluice	
1	236	136	100			
2	255	121	134			
3	280	114	166			
4	318	133	185			
5	341	142	199			
6	350	131	219			
7	356	130	228			
8	358	128	230			
9	361	123	238			
10	361	105	256			
11	349	94	255			
12	341	72	269			
13	320	62	258			
14	319	62	257			
15	319	62	257			
16	311	56	255			
17	295	55	240			
18	293	61	232			
19	298	59	239			
20	304	62	242			
21	293	66	227			
22	292	72	220			
23	286	53	233			
24	266	43	223			
25	263	44	219			
26	272	67	205			
27	319	119	200			
28	371	143	228			
29	382	140	242			
30	364	60	304			
31	204		204			
Total	9677	2715	6962	42		
Ac-ft	19194	5385	13809	83		
To Date	311712	151770	159942	8489		369
Duty	5.54					

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

DETERMINATION OF PRIORITY WATER

JANUARY 1998

Mean daily discharge - cubic feet per second

1998		SAN CARLOS RESERVOIR					ASHURST-HAYDEN DAM					DAILY CALL SYSTEM				
		RELEASES		STORAGE			Spilled and/or		Natural Flow		Gain/Loss		COMPUTED PRIORITY YEAR		COMPUTED PRIORITY YEAR	
		River Inflow	Total	Natural Flow	Stored	Inflow minus Outflow	Ac-ft change S C Res.	Spilled	Diverted	Stored	Natural Flow	Nat. Flow Available to Project	Gain/Loss Nat. Flow	Viriden	Safford	Winkelman
JAN	JAN	JAN	JAN	JAN	JAN	JAN	JAN	JAN	JAN	JAN	JAN	JAN	1929	1929	1929	1929
DEC 31	431	104	104	900	327	900	147	137	147	43	435	435	"	"	"	"
JAN 1	421	104	104	820	317	820	137	133	137	33	416	416	"	"	"	"
JAN 2	418	41	41	970	377	970	133	109	133	92	465	465	"	"	"	"
JAN 3	421			920	421	920	109	73	109	109	479	479	"	"	"	"
JAN 4	422			930	422	930	73	60	73	73	444	444	"	"	"	"
JAN 5	435			1030	435	1030	60	51	60	60	443	443	"	"	"	"
JAN 6	448			990	448	990	51	44	51	51	445	445	"	"	"	"
JAN 7	463	68	68	910	395	910	44	40	44	-24	392	392	"	"	"	"
JAN 8	464	113	113	960	351	960	40	85	40	-73	349	349	"	"	"	"
JAN 9	440	152	152	900	288	900	85	129	85	-87	338	338	"	"	"	"
JAN 10	424	173	173	800	251	800	129	151	129	-44	350	350	"	"	"	"
JAN 11	423	173	173	600	250	600	151	166	151	-22	371	371	"	"	"	"
JAN 12	414	161	161	500	253	500	166	167	166	5	389	389	"	"	"	"
JAN 13	375	123	123	600	266	600	167	166	167	15	401	401	"	"	"	"
JAN 14	408	152	152	600	256	600	166	162	166	14	391	391	"	"	"	"
JAN 15	391	152	152	600	239	600	162	161	162	10	372	372	"	"	"	"
JAN 16	382	136	136	700	246	700	161	157	161	25	377	377	"	"	"	"
JAN 17	375	123	123	600	252	600	157	155	157	34	379	379	"	"	"	"
JAN 18	372	122	122	600	250	600	155	143	155	33	375	375	"	"	"	"
JAN 19	375	106	106	700	269	700	143	130	143	37	380	380	"	"	"	"
JAN 20	377	83	83	500	294	500	130	113	130	47	389	389	"	"	"	"
JAN 21	371	74	74	500	287	500	113	103	113	39	374	374	"	"	"	"
JAN 22	363	74	74	600	289	600	103	100	103	29	357	357	"	"	"	"
JAN 23	355	74	74	500	281	500	100	94	100	26	347	347	"	"	"	"
JAN 24	356	74	74	800	282	800	94	93	94	20	346	346	"	"	"	"
JAN 25	364	74	74	700	290	700	94	93	94	20	349	349	"	"	"	"
JAN 26	367	77	77	600	290	600	93	93	93	16	348	348	"	"	"	"
JAN 27	379	79	79	700	300	700	93	93	93	14	357	357	"	"	"	"
JAN 28	377	79	79	298	298	500	93	93	93	14	355	355	"	"	"	"
JAN 29	368	98	98	200	270	200	93	103	93	-5	331	331	"	"	"	"
JAN 30	365	111	111	1000	254	1000	103		103	-8	327	327	"	"	"	"
JAN 31	363	111	111	300	252	300							"	"	"	"

12% transit loss on daily Stored releases...

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

DETERMINATION OF PRIORITY WATER

FEBRUARY 1998

Mean daily discharge - cubic feet per second

1998		SAN CARLOS RESERVOIR				ASHURST-HAYDEN DAM				DAILY CALL SYSTEM					
		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.	Diverted	Stored	Natural Flow	Gain/Loss Nat.Flow	Nat. Flow Available to Project	Viriden	Safford	Winkelman
JAN 31	363	111	111		252	300	104		104	-7	326	1929			1929
FEB 1	362	111	111		251	700	106		106	-5	327				
FEB 2	358	113	113		245	800	106		106	-7	322				
FEB 3	350	113	113		237	700	114		114	1	323				
FEB 4	345	58	58		289	1200	280		280	224	534				
FEB 5	349	17	17		332	700	249		249	232	541				
FEB 6	365				365	700	139		139	139	460				
FEB 7	408				406	800	99		99	99	456				
FEB 8	406				406	800	214		214	513	870				
FEB 9	481				481	800	600		600	928	1349				
FEB 10	1562				1562	2900	553		553	553	1928				
FEB 11	763				763	1600	247		247	247	918				
FEB 12	579	33	33		546	1400	150		150	117	630				
FEB 13	553	56	56		497	1300	111		111	55	548				
FEB 14	531	55	55		476	900	218		218	163	637				
FEB 15	537	54	54		483	2200	397		397	343	822				
FEB 16	714	22	22		692	1200	249		249	227	858				
FEB 17	642				642	1300	566		566	754	1319				
FEB 18	616				616	1100	247		247	904	1446				
FEB 19	938				938	1600	75		75	655	1480				
FEB 20	859				859	2200	155		155	439	1195				
FEB 21	1134				1134	2300	146		146	499	1497				
FEB 22	1057				1057	2400	397		397	397	1327				
FEB 23	1139				1139	2000	105		105	290	1292				
FEB 24	1249				1249	3200	320		320	323	1422				
FEB 25	1430				1430	2500	415		415	542	1800				
FEB 26	1973				1973	3300	115		115	270	2006				
FEB 27	1550				1550	3500	289		289	289	1653				
FEB 28	1492				1492	2500									

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

DETERMINATION OF PRIORITY WATER

MARCH 1998

Mean daily discharge - cubic feet per second

		SAN CARLOS RESERVOIR				ASHURST-HAYDEN DAM				DAILY CALL SYSTEM					
		RELEASES		STORAGE		Spilled and/or Diverted		Natural Flow		COMPUTED PRIORITY YEAR		Duncan			
1988	River Inflow	Total	Natural Flow	Inflow minus Outflow	Ac-ft change S.C. Res.	Spilled	Diverted	Stored	Natural Flow	Gain/Loss Nat. Flow	Nat. Flow Available to Project	1929	1929	1929	1929
FEB 28	1492			1492	2500				216	216	1529	1929	1929	1929	
MAR 1	1239			1239	2800				171	171	1281	"	"	"	"
MAR 2	1088			1088	2400				151	151	1108	"	"	"	"
MAR 3	980	120	120	860	2000				131	11	888	"	"	"	"
MAR 4	898	215	215	684	1100				179	-36	781	"	"	"	"
MAR 5	787	221	221	566	1100				239	18	737	"	"	"	"
MAR 6	720	351	351	369	1000				370	19	685	"	"	"	"
MAR 7	688	440	440	248	500				404	-36	622	"	"	"	"
MAR 8	699	510	510	189	400				429	-81	595	"	"	"	"
MAR 9	736	541	541	195	500				454	-87	626	"	"	"	"
MAR 10	757	609	609	148	300				541	-68	671	"	"	"	"
MAR 11	708	647	647	61	300				601	-46	655	"	"	"	"
MAR 12	664	627	627	37					589	-38	622	"	"	"	"
MAR 13	623	627	623	-4	200		4		594	-29	594	"	"	"	"
MAR 14	599	626	599	-27			24		581	-18	581	"	"	"	"
MAR 15	616	625	616	-9	-100		8		605	-11	605	"	"	"	"
MAR 16	724	623	623	101	200				626	3	715	"	"	"	"
MAR 17	1101	590	590	511	1000				674	84	1124	"	"	"	"
MAR 18	1466	570	570	896	1200				622	52	1410	"	"	"	"
MAR 19	1859	569	569	1290	2400				595	26	1730	"	"	"	"
MAR 20	2254	529	529	1725	2500				561	32	2079	"	"	"	"
MAR 21	2385	521	521	1864	4000				528	7	2168	"	"	"	"
MAR 22	2145	530	530	1615	3600				531	1	1952	"	"	"	"
MAR 23	1908	591	591	1317	2200				570	-21	1729	"	"	"	"
MAR 24	1818	630	630	1188	2600				624	-6	1669	"	"	"	"
MAR 25	1807	630	630	1177	2600				658	28	1694	"	"	"	"
MAR 26	1933	513	513	1420	1600				737	224	1987	"	"	"	"
MAR 27	2113	477	477	1636	3900				737	260	2177	"	"	"	"
MAR 28	2484	314	314	2170	3600				669	355	2579	"	"	"	"
MAR 29	2981	269	269	2722	4400				841	582	3236	"	"	"	"
MAR 30	3069	100	100	2969	5800				894	794	3507	"	"	"	"
MAR 31	3235			3235	6000							"	"	"	"

12% transit loss on daily Stored releases...

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

DETERMINATION OF PRIORITY WATER

APRIL 1998

Mean daily discharge - cubic feet per second

1988		SAN CARLOS RESERVOIR				ASHURST-HAYDEN DAM				DAILY CALL SYSTEM					
		RELEASES		STORAGE		Sluiced and/or Spilled		Natural Flow		Gain/Loss		COMPUTED PRIORITY YEAR		COMPUTED PRIORITY YEAR	
		Total	Natural	Inflow minus Outflow	Ac-ft change	Diverted	Stored	Natural	Flow	Nat. Flow	Nat. Flow	Duncan	Safford	Winkelman	Ashurst-Hayden
River Inflow	Flow	Stored	S Res.	APR	APR	APR	APR	APR	APR	1929	1929	1929	1929		
MAR 31	3235	84	3235	6000	1	497	497	497	497	497	1929	1929	1929	1929	
APR 1	2872	132	2788	6000	2	375	375	375	375	291	"	"	"	"	
2	2877	197	2545	4400	3	410	410	410	410	278	"	"	"	"	
3	2527	197	2330	4600	4	424	424	424	424	227	"	"	"	"	
4	2424	197	2227	3700	5	391	391	391	391	184	"	"	"	"	
5	2261	197	2064	3700	6	375	375	375	375	178	"	"	"	"	
6	2042	199	1843	2800	7	336	336	336	336	137	"	"	"	"	
7	1879	258	1621	2700	8	322	322	322	322	64	"	"	"	"	
8	1732	319	1413	2700	9	353	353	353	353	34	"	"	"	"	
9	1590	388	1202	2100	10	388	388	388	388	10	"	"	"	"	
10	1435	401	1034	2000	11	412	412	412	412	11	"	"	"	"	
11	1281	405	876	2500	12	409	409	409	409	4	"	"	"	"	
12	1128	405	723	1000	13	407	407	407	407	2	"	"	"	"	
13	1035	405	630	800	14	410	410	410	410	5	"	"	"	"	
14	1017	407	610	1100	15	411	411	411	411	4	"	"	"	"	
15	1024	408	616	1100	16	410	410	410	410	2	"	"	"	"	
16	1006	407	599	1000	17	405	405	405	405	-2	"	"	"	"	
17	969	406	563	1100	18	400	400	400	400	-6	"	"	"	"	
18	917	407	510	1000	19	397	397	397	397	-10	"	"	"	"	
19	853	408	445	800	20	395	395	395	395	-13	"	"	"	"	
20	804	410	394	700	21	392	392	392	392	-18	"	"	"	"	
21	735	411	324	600	22	389	389	389	389	-22	"	"	"	"	
22	716	411	305	400	23	387	387	387	387	-24	"	"	"	"	
23	643	429	214	500	24	391	391	391	391	-38	"	"	"	"	
24	612	464	148	100	25	411	411	411	411	-54	"	"	"	"	
25	639	508	131	300	26	447	447	447	447	-61	"	"	"	"	
26	738	529	209	100	27	476	476	476	476	-53	"	"	"	"	
27	847	531	316	200	28	480	480	480	480	-51	"	"	"	"	
28	920	532	388	400	29	481	481	481	481	-52	"	"	"	"	
29	935	543	392	600	30	481	481	481	481	-62	"	"	"	"	
30	901	550	351	300							1923	1923	1923	1923	

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

DETERMINATION OF PRIORITY WATER

MAY 1998

Mean daily discharge - cubic feet per second

SAN CARLOS RESERVOIR				ASHURST-HAYDEN DAM				DAILY CALL SYSTEM					
RELEASES		STORAGE		Sluiced and/or Spilled		Natural Flow		Gain/Loss		COMPUTED PRIORITY YEAR		Ashurst-Hayden	
River Inflow	Total	Natural Flow	Stored	Inflow minus Outflow	Ac-ft change S C Res.	Diverted	Stored	Natural Flow	Nat. Flow Available to Project	Nat. Flow to Project	Duncan Safford	Winkelman	Ashurst-Hayden
1998	MAY	MAY	MAY	MAY	MAY	MAY	MAY	MAY	MAY	MAY	MAY	MAY	MAY
APR 30	901	550	550	351	300	513	513	513	822	822	1915	1923	1929
MAY 1	791	560	560	231	-600	511	511	511	714	714	"	1915	1923
MAY 2	720	560	560	160	1200	511	511	511	652	652	"	"	"
MAY 3	655	559	559	96	100	510	510	510	594	594	1929	"	1915
MAY 4	633	558	558	75	-100	510	510	510	576	576	1923	"	"
MAY 5	630	598	598	32	-100	531	531	531	559	559	"	"	"
MAY 6	630	624	624	6	-100	560	560	560	565	565	1929	"	1929
MAY 7	662	623	623	39	-200	563	563	563	597	597	1923	"	1923
MAY 8	667	623	623	44	-200	565	565	565	604	604	1923	"	"
MAY 9	641	622	622	19	-400	562	562	562	579	579	1929	"	1929
MAY 10	606	621	606	15	-400	557	13	544	544	544	1929	"	"
MAY 11	576	620	576	44	-200	560	39	521	521	521	"	"	1923
MAY 12	563	618	563	55	-300	557	48	509	509	509	1913	"	1929
MAY 13	532	617	532	85	-300	560	75	485	485	485	1915	"	"
MAY 14	515	574	515	59	-400	532	52	480	480	480	"	"	"
MAY 15	489	550	489	61	-61	497	54	443	443	443	"	"	1913
MAY 16	474	548	474	74	-300	491	65	426	426	426	"	"	1915
MAY 17	466	547	466	81	-100	493	71	422	422	422	"	"	"
MAY 18	458	545	458	87	-400	490	77	413	413	413	"	"	"
MAY 19	439	575	439	136	-200	507	120	387	387	387	"	"	"
MAY 20	412	595	412	183	-600	536	161	375	375	375	"	"	"
MAY 21	376	611	376	235	-500	540	207	333	333	333	"	"	"
MAY 22	366	631	366	265	-600	560	233	327	327	327	"	"	"
MAY 23	354	667	354	313	-800	586	275	311	311	311	"	"	"
MAY 24	339	691	339	352	-800	617	310	307	307	307	"	"	"
MAY 25	342	689	342	347	-1100	620	305	315	315	315	"	"	"
MAY 26	333	688	333	355	-1000	620	312	308	308	308	1899	"	"
MAY 27	311	688	311	377	-1000	618	332	286	286	286	1896	"	"
MAY 28	287	687	287	380	-800	618	334	284	284	284	1893	"	1915
MAY 29	299	669	299	370	-900	607	326	281	281	281	1889	"	1899
MAY 30	295	656	295	361	-800	591	318	273	273	273	1890	"	1896
MAY 31	278	656	278	378	-1000								

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

DETERMINATION OF PRIORITY WATER

JUNE 1998

Mean daily discharge - cubic feet per second

1998		SAN CARLOS RESERVOIR					ASHURST-HAYDEN DAM					DAILY CALL SYSTEM								
		RELEASES		STORAGE			Sluiced and/or Spilled		Natural Flow			Gain/Loss		Nat. Flow Available		COMPUTED PRIORITY YEAR				
		River Inflow	Total	Natural Flow	Inflow minus Outflow	Ac-ft change S.C.Res.	Stored	Spilled	Diverted	Stored	Natural Flow	Nat. Flow	Nat. Flow	to Project	Duncan Virden	Safford	Winkelman	Ashurst-Hayden		
MAY 31	278	656	278	-378	-1000	378	620	333	287	9	287	287	1896	1890	1893	1893	1893			
JUN 1	252	648	252	-396	-800	348	618	348	270	18	270	270	1891	1896	1889	1889	1889			
2	241	648	241	-407	-1200	358	612	358	254	13	254	254	1893	1891	1890	1890	1890			
3	230	593	230	-363	-1000	319	579	319	260	30	260	260	1890	1893	Immem.	Immem.	Immem.			
4	218	559	218	-341	-1100	300	540	300	240	22	240	240	1896	1890	1891	1891	1891			
5	207	559	207	-352	-900	310	532	310	222	15	222	222	1895	1896	1893	1893	1893			
6	196	590	196	-394	-1200	347	545	347	198	2	198	198	1890	1895	1890	1890	1890			
7	185	628	185	-443	-2100	390	605	390	180	5	180	180	1887	1890	1896	1896	1896			
8	174	651	174	-477	-1200	420	605	420	185	11	185	185	1889	1887	1895	1895	1895			
9	163	656	163	-493	-1400	434	614	434	180	17	180	180	1879	1889	1890	1890	1890			
10	152	656	152	-504	-1200	444	621	444	177	25	177	177	1878	1879	1887	1887	1887			
11	141	658	141	-515	-1000	453	616	453	163	22	163	163	1881	1878	1879	1879	1879			
12	131	658	131	-527	-1600	464	613	464	149	18	149	149	1877	1881	1878	1878	1878			
13	119	682	119	-563	-1100	485	629	485	134	15	134	134	1873	1877	1878	1878	1878			
14	107	694	107	-587	-1400	517	650	517	133	26	133	133	1869	1873	1881	1881	1881			
15	95	693	95	-598	-1800	526	651	526	125	30	125	125	1874	1869	1877	1877	1877			
16	90	695	90	-605	-1800	532	647	532	115	25	115	115	1868	1874	1873	1873	1873			
17	88	709	88	-621	-1400	546	657	546	111	23	111	111	1868	1868	1869	1869	1869			
18	89	718	89	-629	-1200	554	673	554	119	30	119	119	1868	1868	1874	1874	1874			
19	87	717	87	-630	-1400	554	676	554	122	35	122	122	1868	1868	1868	1868	1868			
20	84	719	84	-635	-1500	559	675	559	116	32	116	116	1868	1868	1868	1868	1868			
21	83	718	83	-635	-1300	559	671	559	112	29	112	112	1868	1868	1868	1868	1868			
22	78	742	78	-664	-1500	584	685	584	101	23	101	101	1868	1868	1868	1868	1868			
23	79	756	79	-677	-2100	596	709	596	113	34	113	113	1868	1868	1868	1868	1868			
24	78	759	78	-681	-1700	610	710	599	111	33	111	111	1868	1868	1868	1868	1868			
25	65	758	65	-693	-1600	610	709	610	99	34	99	99	1868	1868	1868	1868	1868			
26	70	757	70	-687	-1400	605	710	605	105	35	105	105	1868	1868	1868	1868	1868			
27	64	758	64	-694	-1500	611	704	611	93	29	93	93	1868	1868	1868	1868	1868			
28	56	761	56	-705	-1500	620	705	620	85	29	85	85	1868	1868	1868	1868	1868			
29	57	786	57	-729	-1700	642	732	642	-90	33	-90	-90	1868	1868	1868	1868	1868			
30	37	807	37	-770	-1800	770	770	770	-1800	33	-1800	-1800	1868	1868	1868	1868	1868			

12% transit loss on daily Stored releases...

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

DETERMINATION OF PRIORITY WATER

JULY 1998

Mean daily discharge - cubic feet per second

		SAN CARLOS RESERVOIR					ASHURST-HAYDEN DAM					DAILY CALL SYSTEM						
		RELEASES		STORAGE			Sluiced and/or Spilled		Natural Flow			Gain/Loss		COMPUTED PRIORITY YEAR				
		Total	Natural Flow	Stored	Inflow minus Outflow	Ac-ft change S-C Res.		Diverted	Stored	Natural Flow	Nat. Flow Available to Project	Nat. Flow	Duncan	Safford	Winkelman	Ashurst-Hayden		
1998	River Inflow				JUL													
JUN 30	37	807	37	770	-770	-1800	1	771	678	93	83	1	Immem.	Immem.	Immem.	Immem.		
JUL 1	34	868	34	834	-834	-2000	2	814	734	80	46	2	"	"	"	"		
JUL 2	31	895	31	864	-864	-1400	3	859	760	99	68	3	"	"	"	"		
JUL 3	31	887	31	856	-856	-1600	4	846	753	93	62	4	"	"	"	"		
JUL 4	30	887	30	857	-857	-2200	5	858	754	104	74	5	"	"	"	"		
JUL 5	34	886	34	852	-852	-1100	6	869	750	119	85	6	"	"	"	"		
JUL 6	40	867	40	827	-827	-2300	7	856	728	128	88	7	1869	"	"	"		
JUL 7	42	847	42	805	-805	-2100	8	885	708	177	135	8	1868	1869	"	"		
JUL 8	47	841	47	794	-794	-900	9	848	699	149	102	9	1885	1868	"	"		
JUL 9	98	785	98	687	-687	-1300	10	794	605	189	91	10	"	1869	1868	1869		
JUL 10	70	749	70	679	-679	-1400	11	738	598	140	70	11	1879	"	1868	1868		
JUL 11	62	748	62	686	-686	-1500	12	724	604	120	58	12	Immem.	Immem.	Immem.	Immem.		
JUL 12	56	747	56	691	-691	-2000	13	714	608	106	50	13	1873	1884	1885	1885		
JUL 13	46	795	46	749	-749	-1700	14	750	659	91	45	14	Immem.	1873	1879	1879		
JUL 14	46	830	46	784	-784	-1900	15	800	690	110	64	15	"	Immem.	1884	1884		
JUL 15	40	829	40	789	-789	-1400	16	801	694	107	67	16	"	"	1873	1873		
JUL 16	29	853	29	824	-824	-1700	17	821	725	96	67	17	"	"	Immem.	Immem.		
JUL 17	30	867	30	837	-837	-2000	18	850	737	113	83	18	1875	"	"	"		
JUL 18	29	866	29	837	-837	-2400	19	851	737	114	85	19	Immem.	1875	"	"		
JUL 19	26	907	26	881	-881	-2100	20	874	775	99	73	20	"	Immem.	"	"		
JUL 20	26	928	26	902	-902	-1700	21	914	794	120	94	21	"	"	1875	1875		
JUL 21	39	890	39	851	-851	-1600	22	934	749	185	172	22	1874	"	Immem.	Immem.		
JUL 22	50	864	50	814	-814	-1700	23	147	769	716	53	23	1891	1874	"	"		
JUL 23	53	736	53	683	-683	-1800	24	13	601	240	200	24	1929	1891	"	"		
JUL 24	312	720	312	408	-408	-1200	25	736	359	377	65	25	"	1915	1929	1929		
JUL 25	659	761	659	102	-102	-700	26	753	90	663	4	26	1903	1929	1891	1891		
JUL 26	454	761	454	307	-307	-900	27	742	270	472	18	27	1881	1903	1929	1929		
JUL 27	420	764	420	344	-344	-600	28	751	303	448	28	28	1877	1881	"	"		
JUL 28	259	791	259	532	-532	-1400	29	766	468	298	39	29	1896	1899	1903	1903		
JUL 29	187	804	187	617	-617	-800	30	782	543	239	52	30	1881	1877	1881	1881		
JUL 30	202	808	202	606	-606	-800	31	800	533	267	65	31	1892	1896	1899	1899		
JUL 31	163	874	163	711	-711	-1600												

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

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

DETERMINATION OF PRIORITY WATER

AUGUST 1998

Mean daily discharge - cubic feet per second

1998		SAN CARLOS RESERVOIR					ASHURST-HAYDEN DAM					DAILY CALL SYSTEM				
		RELEASES		STORAGE			Sluiced and/or Spilled	Diverted	Stored	Natural Flow	Gain/Loss Nat. Flow	Nat. Flow Available to Project	Duncan Virden	Safford	Winkelman	Ashurst-Hayden
		Total	Natural Flow	Inflow	minus Outflow	Ac-ft change S C Res.										
River Inflow																
JUL 31	163	874	163	711	-711	-1600	1	828	626	202	39	202	1899	1882	1877	1877
AUG 1	179	908	179	729	-729	-1900	2	917	642	275	96	275	1903	1899	1896	1896
AUG 2	244	907	244	663	-663	-1400	3	941	583	358	114	358	1912	1903	1882	1882
AUG 3	231	906	231	875	-675	-1600	4	949	594	355	124	355	1894	1912	1899	1899
AUG 4	218	905	218	687	-687	-1500	5	916	605	311	93	311	1887	1894	1903	1903
AUG 5	185	905	185	740	-740	-1700	6	920	651	269	104	269	1886	1887	1912	1912
AUG 6	136	932	136	786	-786	-1800	7	950	700	250	114	250	1894	1886	1894	1894
AUG 7	113	952	113	839	-839	-2500	8	987	738	249	136	249	1885	1894	1887	1887
AUG 8	102	951	102	849	-849	-1600	9	1000	747	253	151	253	1888	1885	1886	1886
AUG 9	93	950	93	857	-857	-1800	10	1030	754	276	183	276	1885	1888	1894	1894
AUG 10	91	924	91	833	-833	-1900	11	956	733	223	132	223	1883	1885	1885	1885
AUG 11	102	897	102	795	-795	-1800	12	945	700	245	143	245	1884	1883	1888	1888
AUG 12	97	888	97	791	-791	-2100	13	931	696	235	138	235	1902	1884	1885	1885
AUG 13	87	888	87	801	-801	-1400	14	15	978	705	271	199	1893	1902	1883	1883
AUG 14	80	886	80	806	-806	-1200	15	973	709	264	184	264	1886	1883	1884	1884
AUG 15	87	885	87	798	-798	-1800	16	152	928	702	226	291	1890	1886	1902	1902
AUG 16	158	884	158	726	-726	-1500	17	1020	639	381	223	381	1898	1890	1883	1883
AUG 17	100	895	100	795	-795	-2400	18	965	700	265	165	265	1892	1888	1886	1886
AUG 18	83	907	83	824	-824	-1300	19	1000	725	275	192	275	"	1882	1890	1890
AUG 19	70	902	70	832	-832	-1800	20	951	732	219	149	219	1878	"	1888	1888
AUG 20	62	873	62	811	-811	-1600	21	918	714	204	142	204	1892	1878	1882	1882
AUG 21	56	873	56	817	-817	-2100	22	901	719	182	126	182	1896	1882	"	"
AUG 22	105	880	105	775	-775	-1900	23	901	682	219	114	219	1880	1896	1878	1878
AUG 23	78	878	78	800	-800	-1900	24	895	704	191	113	191	1880	1882	1882	1882
AUG 24	74	854	74	780	-780	-1600	25	914	686	228	154	228	1882	1880	1896	1896
AUG 25	65	838	65	773	-773	-1500	26	915	680	235	170	235	1880	1882	1882	1882
AUG 26	69	837	69	768	-768	-1900	27	892	676	216	147	216	1878	1880	1880	1880
AUG 27	66	836	66	770	-770	-1800	28	868	678	190	124	190	1877	1878	1882	1882
AUG 28	56	835	56	779	-779	-1700	29	854	686	168	112	168	1908	1877	1880	1880
AUG 29	135	825	135	690	-690	-1500	30	867	607	260	125	260	1896	1908	1878	1878
AUG 30	99	815	99	716	-716	-1500	31	857	630	227	128	227	1893	1896	1877	1877
AUG 31	107	797	107	690	-690	-1600										

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

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

DETERMINATION OF PRIORITY WATER

SEPTEMBER 1998

Mean daily discharge - cubic feet per second

1998		SAN CARLOS RESERVOIR					ASHURST-HAYDEN DAM					DAILY CALL SYSTEM				
		RELEASES		STORAGE			Sluiced and/or Spilled		Natural Flow			Gain/Loss		COMPUTED PRIORITY YEAR		Ashurst-Hayden
		River Inflow	Total	Natural Flow	Stored	Inflow minus Outflow	Ac-ft change S.C Res.	Spilled	Diverted	Stored	Natural Flow	Nat Flow Available to Protect	Nat Flow	Duncan	Safford	Winkelman
SEP	SEP	SEP	SEP	SEP	SEP	SEP	SEP	SEP	SEP	SEP	SEP	SEP	SEP	SEP	SEP	SEP
1	107	797	107	690	-690	-1600	822	607	215	108	215	1	1881	1883	1908	1908
2	93	784	93	701	-701	-1600	805	617	188	95	188	2	1883	1881	1896	1896
3	74	771	74	697	-697	-1500	787	613	174	100	174	3	1875	1883	1883	1883
4	62	753	62	691	-691	-1600	760	608	152	90	152	4	1877	1875	1881	1881
5	56	715	56	659	-659	-1500	792	580	212	156	212	5	1883	1877	1883	1883
6	57	648	57	591	-591	-1900	798	520	278	221	278	6	1880	1883	1875	1875
7	50	602	50	552	-552	-1000	668	486	182	132	182	7	1875	1880	1877	1877
8	52	595	52	543	-543	-1200	606	478	128	76	128	8	1873	1875	1883	1883
9	56	577	56	521	-521	-1000	583	458	125	69	125	9	Imm.	1873	1880	1880
10	42	562	42	460	-460	-1200	558	405	151	109	151	10	"	Imm.	1875	1875
11	43	399	43	356	-356	-800	471	313	158	115	158	11	"	"	1873	1873
12	37	365	37	328	-328	-820	391	289	102	65	102	12	1876	"	Imm.	Imm.
13	44	356	44	312	-312	-810	367	275	92	48	92	13	Imm.	1876	"	Imm.
14	43	352	43	309	-309	-570	342	272	70	27	70	14	1873	1846	"	"
15	38	352	38	314	-314	-890	330	276	54	16	54	15	Imm.	1873	1876	1876
16	37	352	37	315	-315	-750	321	277	44	7	44	16	"	Imm.	1846	1846
17	30	352	30	322	-322	-840	318	283	35	5	35	17	"	"	1873	1873
18	30	352	30	322	-322	-650	322	283	39	9	39	18	"	"	Imm.	Imm.
19	28	352	28	326	-326	-730	322	287	35	9	35	19	"	"	"	"
20	28	352	28	324	-324	-650	320	285	35	7	35	20	"	"	Imm.	Imm.
21	28	352	28	324	-324	-1040	310	285	25	-3	25	21	"	"	"	"
22	24	352	24	328	-328	-860	299	288	10	-14	10	22	"	"	"	"
23	21	337	21	316	-316	-810	301	278	23	2	23	23	"	"	"	"
24	21	327	21	306	-306	-620	284	269	15	-6	15	24	"	"	"	"
25	23	327	23	304	-304	-710	279	268	11	-12	11	25	"	"	"	"
26	20	327	20	307	-307	-620	277	270	7	-13	7	26	"	"	"	"
27	20	327	20	307	-307	-660	274	270	4	-16	4	27	"	"	"	"
28	21	301	21	280	-280	-480	272	270	2	-18	2	28	"	"	"	"
29	20	288	20	268	-268	-690	269	246	23	2	23	29	"	"	"	"
30	21	288	21	267	-267	-730	244	236	8	-12	8	30	1846	"	"	"

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

DETERMINATION OF PRIORITY WATER

OCTOBER 1998

Mean daily discharge - cubic feet per second

1998		SAN CARLOS RESERVOIR				ASHURST-HAYDEN DAM				DAILY CALL SYSTEM					
		RELEASES		STORAGE		Spilled and/or		Natural Flow		Duncan		COMPUTED PRIORITY YEAR		Ashurst-Hayden	
		River Inflow	Total	Natural Flow	Stored	Inflow minus Outflow	Ac-ft change S C Res.	Spilled	Diverted	Stored	Natural Flow	Viriden	Safford	Winkelman	1846
1	288	21	267	-267	-730	1	230	230	-21	1	Imm.	1846	Imm.	Imm.	1846
2	287	19	268	-268	-770	2	229	229	-19	2	Imm.	Imm.	Imm.	Imm.	1846
3	285	23	262	-262	-540	3	226	226	-23	3	1846	1846	1846	1846	1846
4	285	27	258	-258	-930	4	221	221	-27	4	Imm.	Imm.	Imm.	Imm.	Imm.
5	285	28	259	-259	-380	5	221	221	-28	5	Imm.	Imm.	Imm.	Imm.	Imm.
6	285	28	257	-257	-490	6	221	221	-28	6	Imm.	Imm.	Imm.	Imm.	1846
7	285	27	258	-258	-540	7	227	227	-27	7	Imm.	Imm.	Imm.	Imm.	Imm.
8	285	26	259	-259	-660	8	234	228	-6	8	1873	1873	1873	1873	1873
9	285	26	259	-259	-410	9	237	228	9	9	1869	1873	1873	1873	1873
10	285	29	256	-256	-530	10	236	225	11	11	1873	1869	1873	1873	1873
11	285	27	258	-258	-650	11	235	227	8	8	Imm.	Imm.	Imm.	Imm.	1873
12	285	22	263	-263	-610	12	236	231	5	5	1873	Imm.	Imm.	Imm.	1869
13	285	23	262	-262	-480	13	235	231	4	4	Imm.	1873	1873	1873	1873
14	285	22	263	-263	-590	14	234	231	3	3	Imm.	Imm.	Imm.	Imm.	Imm.
15	285	23	262	-262	-640	15	233	231	2	2	Imm.	Imm.	Imm.	Imm.	Imm.
16	285	25	260	-260	-590	16	231	229	2	2	1884	1846	1873	1873	1873
17	89	22	67	-87	-270	17	136	92	59	33	1895	1884	1884	1884	1846
18	20	20	20	-40	-40	18	105	105	105	105	1904	1895	1895	1846	1846
19	21	21	21	-40	-40	19	105	105	105	105	Imm.	1904	1884	1884	1884
20	23	23	23	-40	-40	20	93	93	93	93	1924	1895	1895	1895	1895
21	27	27	27	-40	-40	21	93	93	93	93	Imm.	1924	1904	1904	1904
22	30	30	30	80	80	22	85	85	85	85	Imm.	Imm.	Imm.	Imm.	Imm.
23	32	32	32	80	80	23	85	85	85	85	Imm.	Imm.	Imm.	Imm.	Imm.
24	36	36	36	30	30	24	67	67	67	67	Imm.	Imm.	Imm.	Imm.	Imm.
25	37	37	37	40	40	25	67	67	67	67	Imm.	Imm.	Imm.	Imm.	Imm.
26	44	44	44	400	400	26	67	67	67	67	Imm.	Imm.	Imm.	Imm.	Imm.
27	54	54	54	120	120	27	58	58	58	58	Imm.	Imm.	Imm.	Imm.	Imm.
28	56	56	56	56	56	28	45	45	45	45	Imm.	Imm.	Imm.	Imm.	Imm.
29	62	62	62	62	62	29	45	45	45	45	Imm.	Imm.	Imm.	Imm.	Imm.
30	88	88	88	88	88	30	45	45	45	45	Imm.	Imm.	Imm.	Imm.	Imm.
31	105	105	105	190	190	31	45	45	45	45	Imm.	Imm.	Imm.	Imm.	Imm.
31	108	108	108	200	200										

12% transit loss on daily Stored releases...

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

DETERMINATION OF PRIORITY WATER

NOVEMBER 1998

Mean daily discharge - cubic feet per second

1998		SAN CARLOS RESERVOIR				ASHURST-HAYDEN DAM				DAILY CALL SYSTEM					
		RELEASES		STORAGE		Sluiced and/or Spilled		Natural Flow		Gain/Loss		COMPUTED PRIORITY YEAR		Ashurst-Hayden	
		Total	Natural	Inflow minus Outflow	Ac-ft change	Spilled	Diverted	Stored	Natural	Nat. Flow Available	Nat. Flow to Project	Viriden	Safford	Winkelman	1924
River Inflow	Flow	Stored	S C Res.	NOV	NOV	NOV	Flow	Nat. Flow	NOV	NOV	NOV	NOV	NOV	NOV	NOV
OCT 31	108		108	200	1	45			45	153	1	1924			1924
NOV 1	121		121	120	2	33			33	154	2	"			"
2	133		133	120	3	25			25	158	3	"			"
3	135		135	280	4	20			20	155	4	"			"
4	136		136	230	5	20			20	156	5	"			"
5	136		136	200	6	20			20	156	6	"			"
6	136		136	440	7	20			20	156	7	"			"
7	128		128	120	8	20			20	148	8	"			"
8	123		123	610	9	18			18	141	9	"			"
9	130		130	-120	10	18			18	148	10	"			"
10	137		137	160	11	18			18	155	11	"			"
11	140		140	240	12	18			18	158	12	"			"
12	147		147	410	13	18			18	165	13	"			"
13	154		154	280	14	18			18	172	14	"			"
14	153		153	330	15	18			18	171	15	"			"
15	150		150	240	16	18			18	168	16	"			"
16	149		149	370	17	18			18	167	17	"			"
17	147		147	250	18	18			18	165	18	"			"
18	147		147	210	19	18			18	165	19	"			"
19	147		147	330	20	18			18	165	20	"			"
20	152		152	170	21	18			18	170	21	"			"
21	150		150	280	22	18			18	168	22	"			"
22	151		151	300	23	18			18	168	23	"			"
23	150		150	160	24	18			18	168	24	"			"
24	147		147	420	25	18			18	165	25	"			"
25	147		147	210	26	18			18	165	26	"			"
26	140		140	170	27	6			6	146	27	1893			"
27	141	141	122	-170	28	2			2	-139	28	1896	1893		"
28	143	143	-171	-120	29	2	128	128	2	-141	29	1891	1896		"
29	154	299	154	-145	30	2	212	128	2	-68	30	1915	1891	1893	1893
30	157	312	157	-380											

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

DETERMINATION OF PRIORITY WATER

DECEMBER 1998

Mean daily discharge - cubic feet per second

1997		SAN CARLOS RESERVOIR				ASHURST-HAYDEN DAM				DAILY CALL SYSTEM					
		RELEASES		STORAGE		Sluiced and/or Spilled		Natural Flow		Gain/Loss Nat. Flow		COMPUTED PRIORITY YEAR		Ashurst-Hayden	
		River Inflow	Total	Natural Flow	Stored	Inflow minus Outflow	Ac-ft change S C Res.	Spilled	Diverted	Stored	Natural Flow	Nat. Flow Available to Project	Duncan	Safford	Winkelman
NOV 30	157	312	157	155	-155	-380	1	2	236	136	100	1884	1915	1896	1896
DEC 1	171	309	171	138	-138	-290	2	2	255	121	134	"	1881	1891	1891
DEC 2	200	329	200	129	-129	-210	3	2	280	114	166	1908	1883	1915	1915
DEC 3	206	357	206	151	-151	-250	4	2	318	133	185	1915	1910	1881	1881
DEC 4	207	368	207	161	-161	-290	5	2	341	142	199	"	1915	1883	1883
DEC 5	219	368	219	149	-149	-530	6	2	350	131	219	"	"	1810	1910
DEC 6	220	388	220	148	-148	-250	7	2	356	130	226	"	"	1815	1915
DEC 7	223	388	223	145	-145	-250	8	2	358	128	230	"	"	"	"
DEC 8	228	388	228	140	-140	-160	9	2	361	123	238	"	"	"	"
DEC 9	240	359	240	119	-119	-370	10	2	361	105	256	"	"	"	"
DEC 10	242	349	242	107	-107	-360	11	2	349	94	255	"	"	"	"
DEC 11	246	328	246	82	-82	-130	12	2	341	72	269	"	"	"	"
DEC 12	246	317	246	71	-71	-280	13	2	320	62	258	"	"	"	"
DEC 13	246	317	246	71	-71	-240	14	2	319	62	257	"	"	"	"
DEC 14	246	317	246	71	-71	-160	15	2	319	62	257	"	"	"	"
DEC 15	237	301	237	64	-64	-290	16	2	311	56	255	"	"	"	"
DEC 16	228	290	228	62	-62	-120	17	2	295	55	240	"	"	"	"
DEC 17	221	290	221	69	-69	-200	18	2	293	61	232	"	"	"	"
DEC 18	223	290	223	67	-67	-120	19	2	298	59	239	"	"	"	"
DEC 19	220	290	220	70	-70	-280	20	2	304	62	242	"	"	"	"
DEC 20	215	290	215	75	-75		21	2	293	66	227	"	"	"	"
DEC 21	208	290	208	82	-82	-240	22	2	292	72	220	"	"	"	"
DEC 22	203	263	203	60	-60	40	23	2	286	53	233	"	"	"	"
DEC 23	204	253	204	49	-49	-190	24	2	266	43	223	"	"	"	"
DEC 24	203	253	203	50	-50	-200	25	2	263	44	219	"	"	"	"
DEC 25	206	282	206	76	-76	-10	26	2	272	67	205	"	"	"	"
DEC 26	208	343	208	135	-135	-270	27	2	319	119	200	"	"	"	"
DEC 27	207	369	207	162	-162	-350	28	2	371	143	228	"	"	"	"
DEC 28	196	264	196	68	-68	-160	29	2	382	140	242	"	"	"	"
DEC 29	191	264	191	73	-73		30	2	364	60	304	1924	"	"	"
DEC 30	184	264	184	80	-80		31	2	204	204	327	"	"	"	"
DEC 31	184	264	184	80	-80	320	31	2	204	204	327	"	"	"	"

12% transit loss on daily Stored releases...

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

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

THEN BEING IRRIGATED

Year of Prior.	Duncan Valley		Safford Valley		Total Upper Valley		San Carlos Indian Res.		Mojave Valley		ASARCO		Wadsworth		GRIE		SCIDD		Total		Total USA TBI	Year of Prior.	
	Decred	TBI 1988	Decred	TBI 1988	Decred	TBI 1988	Decred	TBI 1988	Decred	TBI 1988	Decred	TBI 1988	Decred	TBI 1988	Decred	TBI 1988	Decred	TBI 1988	Decred	TBI 1988			Decred
1846																							
1848																							
1850																							
1852																							
1854																							
1856																							
1858																							
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1894																							
1896																							
1898																							
1900																							
1902																							
1904																							
1906																							
1908																							
1910																							
1912																							
1914																							
1916																							
1918																							
1920																							
1922																							
1924																							
1926																							
1928																							
1930																							
TOTAL																							

Note: * Industrial and Municipal use 1998 modified effective December 1, 1998 in accordance with court order

RELATIVE DIVERSION RIGHTS FOR DUNCAN VALLEY
Based on one cubic foot per second for each eighty acres

THEN BEING IRRIGATED

Year	Sunset TBI		New Model TBI		Valley TBI		TBI 1998	Comanero Deceased	Saxton Deceased	R. Saxton Deceased	York Deceased	F. E. Ross Deceased	York Califia Deceased	J. H. Brown Deceased	R. K. Davis Deceased	Laura Short Deceased	TBI 1998	Albert Deceased	Deceased	Total Deceased	Total Modified
	Deceased	TBI 1988	Deceased	TBI 1988	Deceased	TBI 1988															
1874	6.3	5.8																		6.3	5.8
1881	12.1	11.1																		12.1	11.1
1882	13.2	12.1																		13.2	12.1
1884			0.5	0.4																13.7	12.5
1885	15.5	14.2	2.2	1.8	1.0	0.8														18.7	16.8
1886																					
1887	16.1	14.7	4.2	3.4	2.0	1.6														21.6	19.1
1888			6.8	5.3	7.2	5.8														22.3	19.7
1889			7.9	6.3																29.9	25.8
1891	16.5	15.1	8.0	6.4																31.2	26.8
1892																				31.7	27.3
1893	17.7	16.2																			
1894	17.8	16.2	8.8	7.0																32.9	28.4
1895	19.8	18.1	11.1	8.9	8.2	6.6														33.8	29.0
1896	21.0	19.2	14.2	11.3	9.6	7.7														37.1	31.7
1897	21.1	19.3	23.5	18.8	13.7	11.0														41.4	35.4
1898	24.4	22.3	28.8	23.8	14.4	11.6														44.8	38.2
1900	27.6	25.2	30.7	24.5	14.6	11.7														58.3	49.1
1901																				68.4	57.5
1902																				72.9	61.4
1903																					
1904	28.5	24.0																		74.3	61.4
1905			31.3	25.0	15.1	12.2														75.0	62.7
1906			31.5	25.1	15.2	12.2														75.2	63.2
1907			31.6	25.2																75.3	63.3
1908			32.3	25.8	16.6	13.4														77.4	65.2
1909																				77.6	65.2
1910			32.5	25.9																78.2	66.1
1911	29.1	26.8	32.7	26.1																78.4	66.1
1912																				79.5	66.2
1913			32.8	26.2																79.5	66.2
1914	29.4	26.9	33.1	26.4	17.0	13.7														79.5	66.2
1915					17.1	13.8														79.5	66.2
1916					17.2	13.8														84.1	71.1
1917	33.6	30.7	33.3	28.6																85.0	72.0
1918					17.3	14.0														85.2	72.0
1919																				85.3	72.1
1920			33.5	28.7																85.3	72.1
1921																				85.3	72.1
1922	34.5	31.5	34.0	27.1																85.8	72.6
1923			34.0	27.1	17.3	14.0														85.8	72.6
Total	34.5	31.5	34.0	27.1	17.3	14.0														85.8	72.6
DECREASD ACRES	2,759.90		2,717.55		1,387.20	441.00														26.30	8.80
TBI ACRES	2,820.76		2,168.65		1,116.29	0.00														0.00	5,805.70
% REDUCTION	8.66%		20.20%		19.53%	100.00%														100.00%	27.98%
% ACRES TBI	97.34%		79.80%		80.47%	0.00%														100.00%	72.92%

Note: for blank spaces use first figure above
1998 modified effective December 1, 1998 in accordance with Court Order

RELATIVE DIVERSION RIGHTS FOR SAFFORD VALLEY
Based on one cubic foot per second of each eighty acres

THEN BEING IRRIGATED

Year	Crescent/Brown		Fourness		San Jose		Montezuma		Union-Sunflower		Grubbin		Smithville		Dodge-Navajo		Curtis		Fort Thomas		Coburn-Jones		Total		
	Decred	TBI	Decred	TBI	Decred	TBI	Decred	TBI	Decred	TBI	Decred	TBI	Decred	TBI	Decred	TBI	Decred	TBI	Decred	TBI	Decred	TBI	Decred	TBI	
1872																									
1873																									
1874	0.5	0.4			1.2	1.1	0.4	0.3	3.4	2.8	0.4	0.4											0.4	0.3	
1875	1.0	0.8			3.8	3.4	4.8	4.4	4.8	4.4	0.4	0.4											1.0	0.8	
1876	1.2	0.9			7.5	6.7	8.5	8.5	6.5	5.4	0.6	0.6											1.6	1.3	
1877																									
1878	2.1	1.7			10.0	8.9	12.5	10.1	8.0	6.6	0.6	0.7													
1879	2.6	2.1			13.6	12.2	15.0	12.2	12.1	10.0	0.6	0.8													
1880	3.8	2.8			15.0	13.4	18.8	15.2	12.2	11.1	1.0	1.0													
1881	4.0	3.2			18.2	14.5	20.2	16.4	17.4	14.4	2.1	1.9													
1882	4.8	3.8			18.8	16.8	21.4	17.3	16.7	15.5	3.3	3.0													
1883	5.2	4.1			20.0	17.8	22.0	17.8	20.2	17.7	5.0	4.8													
1884	5.9	4.7			22.5	20.1	22.5	18.2	31.9	28.5	5.1	4.7													
1885	6.4	5.1			23.8	21.3	23.0	18.6	39.2	32.5	6.5	6.0													
1886	6.8	5.4					25.0	20.3	47.6	39.5	9.9	9.1													
1887	8.4	6.6							51.8	43.9	10.9	10.1													
1888	8.6	6.8			25.0	22.4	25.5	20.7	53.9	44.7	11.8	11.6													
1889	8.7	6.9			25.8	22.8	26.2	21.2	59.9	46.7	13.4	12.4													
1890	9.3	7.3					27.0	21.9	66.0	54.6	14.5	13.4													
1891	11.5	9.1			28.7	23.9	27.8	22.5	68.6	56.9	16.1	16.1													
1892	12.1	9.8							70.2	58.3	17.4	17.4													
1893	13.1	10.3			27.9	25.0	28.5	23.1	70.6	58.5	20.0	18.4													
1894	13.2	10.4					30.5	24.3	71.8	59.4	20.4	18.8													
1895	14.8	11.7			29.8	25.6	30.5	24.7	72.2	59.9	22.0	21.1													
1896					28.7	24.7	32.0	25.9	72.3	60.0	24.0	22.1													
1897					29.0	24.8	33.3	27.0	72.4	60.1	24.0	22.7													
1898							34.4	27.8	72.5	60.2	25.4	23.4													
1899	15.4	12.2			30.4	27.2	36.8	29.8	72.5	60.2	26.3	24.3													
1900					31.9	26.5	40.5	32.8	72.6	60.2	27.1	25.0													
1901	15.9	12.8			33.2	28.7	41.6	33.7	72.6	60.2	27.6	25.5													
1902					34.5	30.8	45.2	36.6	72.7	60.3	28.1	25.9													
1903					35.7	31.8	46.4	37.6	72.7	60.3	28.1	25.9													
1904					39.8	35.6	46.9	38.0	72.7	60.3	28.1	25.9													
1905					41.5	37.1	48.3	39.4	72.7	60.3	28.1	25.9													
1906					42.6	38.1	50.4	40.4	72.7	60.3	28.1	25.9													
1907							43.5	38.9	72.7	60.3	28.1	25.9													
1908					43.5	38.9	48.4	43.3	72.7	60.3	28.1	25.9													
1909					46.0	43.3	48.4	43.3	72.7	60.3	28.1	25.9													
1910					49.5	44.3	50.4	44.1	72.7	60.3	28.1	25.9													
1911					50.4	45.1			72.7	60.3	28.1	25.9													
1912							51.0	45.8	72.7	60.3	28.1	25.9													
1913									72.7	60.3	28.1	25.9													
1914									72.7	60.3	28.1	25.9													
1915	16.1	12.7			51.5	46.1	59.1	47.9	72.7	60.3	28.1	25.9													
1916							50.2	48.0	72.7	60.3	28.1	25.9													
1917	16.3	12.9			50.6	48.3	50.6	48.3	72.7	60.3	28.1	25.9													
1918					51.9	48.4	60.3	48.9	72.7	60.3	28.1	25.9													
1919	16.6	13.1					60.4	49.0	72.7	60.3	28.1	25.9													
1920					51.9	48.4	60.4	49.0	72.7	60.3	28.1	25.9													
Total	16.6	13.1			2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4													
DECRED ACRES	1,326.80				210.70				7,371.98		4,217.68														
TBI ACRES	1,048.33				199.80				6,177.46		3,788.86														
% REDUCTION	20.99%				10.01%				16.34%		11.24%														
% ACRES TBI	78.01%				89.89%				82.98%		92.24%														
Total																									
DECRED	32,512.40				1,971.70				2,518.54		2,648.33														
TBI	28,353.92				1,752.85				2,394.44		3,134.66														
% REDUCTION	12.70%				11.40%				4.97%		8.34%														
% ACRES TBI	87.21%				88.90%				95.03%		91.66%														

Note: for blank spaces use final figure above
1988 modified effective December 1, 1988 in accordance with Court Order

COMPARISON OF U.S.G.S. 1998 PROVISIONAL TO FINAL DATA

Negative number means revised down from original data

STATION	JANUARY REVISED AC-FT	FEBRUARY REVISED AC-FT	MARCH REVISED AC-FT	APRIL REVISED AC-FT	MAY REVISED AC-FT	JUNE REVISED AC-FT	JULY REVISED AC-FT	AUGUST REVISED AC-FT	SEPTEMBER REVISED AC-FT	OCTOBER REVISED AC-FT	NOVEMBER REVISED AC-FT	DECEMBER REVISED AC-FT	TOTAL REVISED AC-FT
Gila Below Blue Creek	197	913	12,843	2,093	0	(27)	234	(242)	135	0	(427)	(199)	15,523
San Francisco River @ Clifton	0	107	(2,533)	674	0	(31)	(63)	117	0	(260)	(541)	(117)	(2,647)
Head of Safford Valley	(1,200)	1,602	(1,027)	936	1,831	1,022	301	405	553	(347)	(532)	94	3,638
Gila @ Calva	(637)	(1,876)	2,552	1,110	(696)	(385)	105	79	(10)	13	0	0	55
San Carlos River @ Peridot	(149)	903	(520)	62	0	0	3	(4)	0	0	0	0	295
Gila Below Coolidge Dam	104	206	0	337	(19)	0	(254)	0	0	(31)	0	89	432
Gila @ Kelvin	95	1,121	553	(361)	(371)	(666)	(74)	(444)	0	0	(428)	0	(575)

Note: revised data not used in Water Commissioner's 1998 Annual Report

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1998

GILA RIVER BELOW BLUE CREEK, NEAR VIRDEN, N. M.

Mean daily discharge, cubic feet per second

1998 DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	195	159	500	1340	376	164	41	198	78	53	134	120
2	209	158	447	1310	354	154	43	205	76	55	128	120
3	222	155	406	1200	333	156	44	225	72	55	126	122
4	220	157	385	1070	346	151	51	209	75	49	122	129
5	224	163	384	962	348	146	37	214	79	42	121	141
6	232	165	415	895	352	142	35	198	80	39	119	149
7	238	165	461	858	352	138	70	227	72	38	116	149
8	231	164	498	818	352	136	92	196	75	45	113	145
9	220	175	471	750	347	132	192	164	77	60	113	141
10	209	196	434	687	339	125	158	134	76	62	116	136
11	203	226	409	653	323	117	127	112	73	63	119	129
12	196	235	399	654	303	111	115	104	66	64	120	120
13	191	228	416	685	291	105	106	105	55	64	118	117
14	186	222	456	669	285	96	98	106	53	63	117	113
15	180	221	537	630	281	92	92	108	66	56	119	114
16	177	231	658	603	275	91	81	105	63	52	117	115
17	172	240	852	570	269	86	77	102	64	60	115	114
18	167	248	1080	530	260	83	69	96	63	66	115	116
19	162	289	1300	489	254	82	60	88	64	56	114	115
20	158	310	1180	456	244	77	57	84	64	56	114	117
21	164	548	1030	429	234	73	72	88	61	71	107	117
22	168	693	982	412	229	69	77	102	61	80	104	115
23	169	574	1020	422	229	64	137	104	59	84	113	114
24	169	575	1120	447	230	59	345	104	61	85	112	114
25	167	634	1230	482	225	56	641	99	63	88	112	113
26	167	711	1350	519	210	53	236	94	62	93	110	111
27	165	656	1690	527	192	51	205	89	62	102	110	109
28	164	571	1780	494	181	47	231	85	59	115	109	101
29	163		1600	438	174	45	209	86	47	163	112	101
30	161		1480	401	174	43	225	82	46	149	115	105
31	160		1420		171		206	78		138		106
Total	5809	9069	26390	20400	8533	2944	4229	3991	1972	2266	3480	3728
Ac-ft	11522	17988	52345	40463	16925	5839	8388	7916	3911	4495	6903	7394

Total for year: 184,089 acre-feet

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

1998

GILA RIVER NEAR CLIFTON, ARIZONA

Mean daily discharge, cubic feet per second

1998 DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	201	170	575	1330	381	114	38	322	61	43	161	113
2	207	164	549	1190	354	110	40	297	56	42	160	134
3	219	159	513	1140	335	103	38	280	55	40	153	128
4	234	164	489	1090	314	95	36	245	60	39	151	125
5	236	169	466	971	326	91	38	234	55	38	148	138
6	238	174	469	894	327	88	48	261	59	40	142	155
7	246	180	504	853	330	86	46	218	62	40	137	174
8	261	182	552	828	330	82	52	235	61	40	131	186
9	267	192	585	800	324	79	44	212	56	41	134	193
10	256	210	569	744	316	76	47	182	62	41	141	193
11	244	225	537	681	305	87	111	155	67	41	143	182
12	232	249	505	635	291	91	105	130	67	42	149	173
13	223	266	493	653	270	85	95	109	56	42	151	160
14	212	270	509	680	249	80	84	96	48	40	140	152
15	204	272	594	665	237	78	73	93	44	39	132	144
16	199	268	703	638	236	76	66	94	46	41	135	134
17	196	267	896	607	224	73	67	93	60	42	135	134
18	187	276	1030	578	219	69	55	86	53	40	135	134
19	184	293	1180	520	205	65	46	81	53	40	135	131
20	178	326	1370	476	197	63	37	83	53	42	131	133
21	170	409	1190	434	193	55	35	95	53	45	129	133
22	170	679	1040	402	177	48	383	72	52	43	124	133
23	172	699	1020	382	169	45	1010	72	50	44	117	133
24	174	579	1080	392	171	43	595	81	49	43	119	133
25	174	596	1200	413	175	41	393	93	45	45	122	133
26	172	654	1310	457	171	40	354	90	45	52	114	133
27	174	698	1430	505	164	38	268	77	44	46	112	133
28	173	624	1880	514	151	36	234	121	45	45	111	128
29	171		1780	484	139	36	252	114	44	52	113	120
30	171		1640	421	128	37	227	80	44	129	107	113
31	171		1500		117		258	67		180		114
Total	6316	9414	28158	20377	7525	2110	5175	4468	1605	1537	4012	4422
Ac-ft	12528	18673	55851	40418	14926	4185	10265	8862	3184	3049	7958	8771

Total for year: 188,670 acre-feet

Drainage area.--4,010 sq. mi.

1998

SAN FRANCISCO RIVER AT CLIFTON, ARIZONA

Mean daily discharge, cubic feet per second

1998 DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	153	113	318	979	338	107	36	160	115	34	103	120
2	150	113	295	1020	330	96	39	163	113	43	98	111
3	153	112	279	994	349	90	37	167	100	46	90	144
4	167	122	274	915	363	92	42	132	104	43	82	123
5	180	140	278	845	372	90	79	106	137	42	78	106
6	179	136	296	804	379	85	72	107	115	42	76	97
7	158	130	330	746	372	80	71	102	84	43	74	96
8	143	129	348	667	353	74	91	100	69	42	73	95
9	135	137	328	574	328	66	122	96	60	35	75	90
10	132	181	316	496	320	62	106	85	48	38	82	87
11	132	181	309	448	304	70	111	73	47	39	84	87
12	136	173	316	451	303	68	90	56	50	39	81	89
13	132	166	337	516	293	62	73	66	47	41	81	89
14	128	161	369	491	294	59	60	80	46	40	78	88
15	125	163	774	448	292	56	50	83	44	33	74	83
16	122	189	1090	445	262	53	41	58	45	33	73	86
17	123	201	1130	416	237	50	91	49	51	41	73	86
18	121	208	1340	367	232	50	78	50	52	42	74	86
19	120	246	1540	332	229	53	56	45	52	46	74	86
20	120	251	1230	323	240	52	64	64	50	48	73	85
21	123	371	1020	310	238	50	55	125	47	49	74	84
22	125	400	945	328	226	51	121	131	46	64	74	85
23	123	342	952	365	207	51	126	93	46	73	74	87
24	122	308	1000	406	192	48	494	152	46	71	75	87
25	122	339	1070	453	180	44	607	83	39	64	75	88
26	119	411	1130	487	163	42	214	64	40	85	74	87
27	118	374	1390	461	153	42	147	53	44	198	67	87
28	118	331	1640	420	140	42	165	67	46	168	75	87
29	116		1380	378	128	40	164	198	46	136	126	86
30	116		1240	355	122	38	149	206	35	111	163	85
31	114		1110		113		150	148		106		85
Total	4125	6128	24374	16240	8052	1863	3801	3162	1864	1935	2473	2882
Ac-ft	8182	12155	48346	32212	15971	3695	7539	6272	3697	3838	4905	5716

Total for year: 152,528 acre-feet

Drainage area.--2,766 square miles

1998

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

Mean daily discharge, cubic feet per second

1998 DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	413	325	1070	2370	598	201	75	513	166	94	220	256
2	421	319	946	2220	570	187	76	431	140	94	218	243
3	433	314	857	2190	562	166	81	503	128	100	210	264
4	459	320	800	2010	575	148	79	372	127	100	202	278
5	482	338	768	1790	598	147	88	318	142	98	199	269
6	498	346	761	1610	619	140	150	298	145	96	195	278
7	495	341	810	1520	621	147	161	285	130	98	192	281
8	476	339	875	1400	648	153	128	263	119	99	184	283
9	457	361	886	1260	622	145	162	254	115	96	185	284
10	441	393	849	1110	557	132	163	228	114	91	195	288
11	426	488	807	992	543	141	189	204	103	92	202	274
12	416	500	771	930	519	157	228	181	111	91	203	266
13	411	486	758	961	488	153	184	162	110	91	200	253
14	399	475	789	995	458	144	154	159	103	90	197	251
15	387	471	1060	959	432	140	130	164	100	88	190	237
16	379	484	1560	922	410	141	110	156	101	100	189	234
17	371	515	1860	876	405	133	117	146	106	104	190	249
18	363	532	2170	814	377	124	151	145	108	107	191	271
19	356	549	2580	736	359	122	126	146	106	108	191	234
20	352	607	2850	669	352	116	109	138	106	102	191	220
21	343	740	2580	595	361	112	118	192	102	110	191	224
22	343	1150	2260	597	361	102	134	219	100	117	192	228
23	346	1300	2120	610	364	96	1570	175	98	128	189	226
24	349	1120	2150	669	340	87	1880	196	92	130	188	221
25	349	1120	2250	737	340	78	1170	199	88	128	195	219
26	346	1340	2380	789	334	71	996	178	83	128	193	219
27	344	1370	2600	837	315	73	484	157	84	153	189	219
28	343	1250	3160	829	281	76	416	148	87	191	187	217
29	343		3110	758	259	85	391	310	87	178	202	210
30	339		2820	663	225	83	374	257	83	173	273	204
31	335		2610		200		380	228		201		207
Total	12215	17893	51867	33418	13693	3800	10574	7325	3284	3576	5943	7607
Ac-ft	24228	35491	102878	66285	27160	7537	20974	14529	6514	7093	11788	15088

Total for year: 339,565 acre-feet

Drainage area.—7,896 square miles

1998

GILA RIVER AT CALVA, ARIZONA

Mean daily discharge, cubic feet per second

1998 DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	384	339	1040	2410	765	241	31	167	85	13	112	157
2	381	336	940	2330	695	230	28	235	66	17	123	185
3	383	328	856	2230	631	219	28	224	54	21	125	189
4	385	322	789	2190	609	208	27	212	48	20	126	191
5	396	324	691	2070	607	197	30	160	48	22	127	204
6	404	324	628	1880	607	186	35	132	41	21	128	204
7	413	332	591	1740	640	175	34	109	43	21	120	208
8	413	329	575	1610	645	164	36	99	47	21	115	213
9	396	348	618	1480	619	153	85	90	33	24	122	226
10	384	402	646	1340	585	142	60	88	34	22	129	228
11	381	369	616	1200	556	130	54	99	29	16	132	232
12	369	380	586	1060	544	120	50	90	36	18	138	232
13	357	400	549	972	513	109	42	78	35	17	145	232
14	354	399	526	960	496	98	42	70	31	18	144	232
15	349	404	541	970	470	86	36	64	30	20	142	223
16	344	395	635	955	456	81	25	60	23	17	141	214
17	341	388	991	922	448	78	24	52	24	15	138	207
18	340	405	1370	873	440	78	25	53	20	16	138	208
19	344	422	1640	811	421	76	23	52	23	18	138	204
20	347	436	2070	764	394	74	24	47	23	21	143	198
21	342	538	2260	698	359	73	36	40	19	24	141	191
22	336	565	2050	681	349	69	46	92	16	26	142	187
23	328	786	1830	611	338	71	48	67	16	30	141	187
24	330	978	1750	583	324	72	306	63	17	31	138	187
25	339	950	1750	611	327	61	654	54	14	37	138	190
26	343	989	1880	708	318	66	448	58	14	40	131	192
27	355	1050	2060	815	297	60	414	55	15	42	132	190
28	353	1160	2380	890	294	53	254	46	16	51	134	185
29	344		2850	907	286	54	182	124	15	79	142	178
30	341		2800	874	283	34	191	89	15	97	143	172
31	340		2490		266		156	97		100		165
Total	11216	14398	40998	36145	14582	3458	3474	2966	930	935	4008	6211
Ac-ft	22247	28558	81320	71694	28923	6859	6891	5883	1845	1855	7950	12320

Total for year: 276,345 acre-feet

Drainage area.—11,470 square miles

1998

SAN CARLOS RIVER NEAR PERIDOT, ARIZONA

Mean daily discharge, cubic feet per second

1998 DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	37	23	199	462	26	11	2.8	12.0	8.4	5.7	8.5	14
2	37	22	148	347	25	11	2.7	9.0	7.7	5.9	9.6	15
3	38	22	124	297	24	11	3.2	7.1	7.9	5.9	10.0	17
4	37	23	110	234	24	10	2.5	5.9	8.4	6.1	9.7	16
5	39	25	96	191	23	10	3.5	4.8	8.7	6.0	8.9	15
6	44	41	92	162	23	10	5.3	4.3	9.4	5.8	8.2	16
7	50	74	97	139	22	9.9	7.9	3.5	9.4	5.2	7.7	15
8	51	77	124	122	22	9.9	11	3.0	9.0	5.2	7.6	15
9	44	133	118	110	22	9.8	13	3.0	8.7	5.0	7.5	14
10	40	1160	111	95	21	10	10	2.9	8.6	5.3	7.7	14
11	42	394	92	81	20	11	7.7	2.8	8.4	5.5	8.2	14
12	45	199	78	68	19	11	5.6	6.7	8.2	5.3	8.7	14
13	61	153	74	63	19	10	3.8	8.7	7.7	5.4	8.6	14
14	54	132	73	57	19	9.3	3.5	10	7.4	5.0	8.5	14
15	42	133	75	54	19	8.6	3.6	23	6.9	5.1	8.4	14
16	38	319	89	51	18	9.1	3.8	98	6.8	4.9	8.4	14
17	34	254	110	47	18	10	5.6	48	6.3	4.8	8.5	14
18	32	211	96	44	18	11	3.8	30	5.6	5.1	8.7	15
19	31	516	219	42	18	11	2.7	18	5.3	4.7	8.7	16
20	30	423	184	40	18	10	2.1	15	5.3	5.8	8.7	17
21	29	596	125	37	17	9.6	2.6	16	4.9	5.7	8.7	17
22	27	492	95	35	17	8.8	3.5	13	5.0	6.1	8.7	16
23	27	353	78	32	16	8.3	4.8	11	5.3	6.2	8.7	17
24	26	271	68	29	15	5.8	5.6	11	5.7	6.0	8.7	16
25	25	480	57	28	15	3.6	5.4	11	5.9	6.7	8.7	16
26	24	984	53	30	15	3.7	5.6	11	6.0	14	8.8	16
27	24	500	53	32	14	3.6	5.9	11	5.3	14	9.2	17
28	24	332	104	30	13	3.4	5.2	10	5.2	11	9.3	17
29	24		131	28	13	3.4	5.2	11	5.4	9.0	12	18
30	24		269	27	12	3.3	11	10	5.7	8.2	14	19
31	23		745		12		7.0	9.5		8.4		19
Total	1103	8342	4087	3014	577	257.1	165.9	440.2	208.5	203	267.6	485
Ac-ft	2188	16546	8107	5978	1144	510	329	873	414	403	531	962

Total for year: 37,985 acre-feet

Drainage area.--1,026 square miles

1998

GILA RIVER BELOW COOLIDGE DAM, ARIZONA

Mean daily discharge, cubic feet per second

1998 DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	104	111	5.6	84	560	648	868	908	794	287	1.3	309
2	41	113	5.8	132	560	648	895	907	771	285	1.3	329
3	1.3	113	120	197	559	593	887	906	753	285	1.3	357
4	1.3	56	215	197	558	559	887	905	715	285	1.3	368
5	1.3	17	221	197	598	559	886	905	648	285	1.3	368
6	1.3	7.8	351	199	624	590	867	932	602	285	1.3	368
7	68	2.4	440	258	623	628	847	952	595	285	1.3	368
8	113	2.4	510	319	623	651	841	951	577	285	1.3	368
9	152	3.4	541	388	622	656	785	950	502	285	1.3	359
10	173	3.1	609	401	621	656	749	924	399	285	1.3	349
11	173	2.8	647	405	620	656	748	897	365	285	1.1	328
12	161	33	627	405	618	658	747	888	356	285	1.1	317
13	152	56	627	405	617	682	795	888	352	285	1.1	317
14	152	55	626	407	574	694	830	886	352	285	1.1	317
15	152	54	625	408	550	693	829	885	352	285	1.1	301
16	136	22	623	407	548	695	853	884	352	89	1.1	290
17	123	2.4	590	406	547	709	867	895	352	2.0	1.1	290
18	122	2.4	570	407	545	718	866	907	352	2.0	1.1	290
19	106	2.4	569	408	575	717	907	902	352	2.0	1.1	290
20	83	2.4	529	410	595	719	928	873	352	2.5	1.1	290
21	74	2.2	521	411	611	718	890	873	352	2.6	1.1	290
22	74	2.0	530	411	631	742	864	880	337	2.0	1.1	263
23	74	2.2	591	429	667	756	736	878	327	2.0	1.1	253
24	74	4.9	630	464	691	759	720	854	327	2.0	1.1	253
25	74	2.5	630	508	689	758	761	838	327	2.1	0.9	282
26	77	2.3	513	529	688	757	761	837	327	2.0	0.8	343
27	79	2.4	477	531	688	758	764	836	327	2.0	263	369
28	79	2.4	314	532	687	761	791	835	301	2.0	314	361
29	98		259	543	669	786	804	825	288	2.0	299	264
30	111		100	550	656	807	808	815	288	2.0	312	68
31	111		1.8		656		874	797		2.0		67
Total	2941.2	682.4	13618.2	11348	19070	20731	25655	27413	13094	4397.2	1218.1	9386
Ac-ft	5834	1354	27012	22509	37825	41120	50887	54374	25972	8722	2416	18617

Total for year: 296,642 acre-feet

Drainage area.—12,886 square miles

1998

NATURAL FLOW RELEASED AT COOLIDGE DAM

Mean daily discharge, cubic feet per second

1998 DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	104	111		84	560	252	34	179	93	19		171
2	41	113		132	560	241	31	244	74	23		200
3		113	120	197	559	230	31	231	62	27		206
4		56	215	197	558	218	30	218	56	26		207
5		17	221	197	598	207	34	165	57	28		219
6			351	199	624	196	40	136	50	27		220
7	68		440	258	623	185	42	113	52	26		223
8	113		510	319	623	174	47	102	56	26		228
9	152		541	388	622	163	98	93	42	29		240
10	173		609	401	606	152	70	91	43	27		242
11	173		647	405	576	141	62	102	37	22		246
12	161	33	627	405	563	131	56	97	44	23		246
13	152	56	623	405	532	119	46	87	43	22		246
14	152	55	599	407	515	107	46	80	38	23		246
15	152	54	616	408	489	95	40	87	37	25		237
16	136	22	623	407	474	90	29	158	30	22		228
17	123		590	406	466	88	30	100	30			221
18	122		570	407	458	89	29	83	26			223
19	106		569	408	439	87	26	70	28			220
20	83		529	410	412	84	26	62	28			215
21	74		521	411	376	83	39	56	24			208
22	74		530	411	366	78	50	105	21			203
23	74		591	429	354	79	53	78	21			204
24	74		630	464	339	78	312	74	23			203
25	74		630	508	342	65	659	65	20			206
26	77		513	529	333	70	454	69	20			208
27	79		477	531	311	64	420	66	20		141	207
28	79		314	532	307	56	259	56	21		143	202
29	98		259	543	299	57	187	135	20		154	196
30	111		100	550	295	37	202	99	21		157	68
31	111				278		163	107				67
Total	2936	630	13565	11348	14457	3716	3645	3408	1137	395	595	6456
Ac-ft	5824	1250	26906	22509	28675	7371	7230	6760	2255	783	1180	12805

Total for year: 123,548 acre-feet

1998

STORED WATER RELEASED AT COOLIDGE DAM

Mean daily discharge, cubic feet per second

1998 DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1						396	834	729	701	268		138
2						407	864	663	697	262		129
3						363	856	675	691	258		151
4						341	857	687	659	259		161
5						352	852	740	591	257		149
6						394	827	796	552	258		148
7						443	805	839	543	259		145
8						477	794	849	521	259		140
9						493	687	857	460	256		119
10					15	504	679	833	356	258		107
11					44	515	686	795	328	263		82
12					55	527	691	791	312	262		71
13			4		85	563	749	801	309	263		71
14			27		59	587	784	806	314	262		71
15			9		61	598	789	798	315	260		64
16					74	605	824	726	322	67		62
17					81	621	837	795	322			69
18					87	629	837	824	326			67
19					136	630	881	832	324			70
20					183	635	902	811	324			75
21					235	635	851	817	328			82
22					265	664	814	775	316			60
23					313	677	683	800	306			49
24					352	681	408	780	304			50
25					347	693	102	773	307			76
26					355	687	307	768	307			135
27					377	694	344	770	307		122	162
28					380	705	532	779	280		171	159
29					370	729	617	690	268		145	68
30					361	770	606	716	267		155	
31					378		711	690				
Total			40		4613	17015	22010	24005	11957	3971	593	2930
Ac-ft			79		9150	33749	43657	47614	23717	7876	1176	5812

Total for year: 172,830 acre-feet

1998

GILA RIVER AT KELVIN, ARIZONA

Mean daily discharge, cubic feet per second

1998 DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	140	120	186	530	516	695	833	942	830	265	30	288
2	136	121	159	662	519	691	903	969	824	261	31	296
3	126	122	144	715	519	685	917	979	788	265	31	326
4	85	152	138	672	524	622	911	969	810	263	31	352
5	62	367	218	546	527	608	929	958	792	266	32	362
6	51	167	239	420	570	603	935	955	783	263	32	369
7	45	105	349	400	587	635	912	993	633	257	33	372
8	42	84	406	425	594	667	927	1000	608	258	34	375
9	89	538	479	460	598	684	894	1020	574	250	35	376
10	138	989	502	504	596	690	818	1040	499	250	36	371
11	182	416	599	509	600	696	793	971	419	248	37	364
12	191	177	637	507	601	690	776	988	386	244	39	345
13	182	128	640	515	604	684	771	961	364	237	40	338
14	174	115	668	513	611	717	839	1000	350	223	40	338
15	175	293	664	506	564	725	857	1010	340	214	42	338
16	174	332	656	501	551	723	854	1120	329	209	43	323
17	164	208	694	489	553	718	880	1010	323	148	44	315
18	149	628	698	479	557	736	889	1000	320	91	45	314
19	147	1030	639	471	558	743	893	1020	317	68	47	315
20	139	441	629	465	597	745	949	977	311	56	48	315
21	123	556	539	456	611	748	971	937	307	49	50	315
22	109	502	570	447	631	746	1020	937	306	44	52	315
23	106	305	594	442	650	776	1160	932	296	40	54	294
24	104	268	669	450	696	786	836	929	287	37	56	286
25	102	852	664	477	713	785	818	939	284	35	57	285
26	102	680	650	515	717	787	821	954	282	33	60	309
27	102	344	772	524	722	788	812	917	281	32	62	356
28	103	252	598	519	726	786	826	906	281	31	116	381
29	103		678	512	729	785	848	911	271	29	241	387
30	108		850	516	707	820	850	917	267	29	263	320
31	124		758		701		859	882		29		143
Total	3777	10292	16686	15147	18949	21564	27301	30043	13462	4724	1761	10183
Ac-ft	7492	20414	33097	30044	37585	42772	54152	59590	26702	9370	3493	20198

Total for year: 344,909 acre-feet

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

1998

OPERATION OF SAN CARLOS RESERVOIR

Quantities in acre-feet

1998 Month	Storage		Gain or Loss	Inflow				Releases			Bank	
	Beginning Storage	Ending Storage		Calva	Peridot	Rain	Total	Gila River below Coolidge Dam	Evapor- ation	Total	Storage	Release
January	92970	114600	21630	22247	2188	287	24722	5834	479	6313		-3221
February	114600	161200	46600	28558	16546	2233	47337	1354	711	2065		-1328
March	161200	221300	60100	81320	8107	1162	90589	27012	1683	28695	1794	
April	221300	270600	49300	71694	5978	297	77969	22509	3270	25779	2890	
May	270600	257900	-12700	28923	1144		30067	37825	5156	42981		-214
June	257900	215400	-42500	8859	510	85	7454	41120	6029	47149	2805	
July	215400	167400	-48000	8891	329	914	8134	50887	4846	55733	401	
August	167400	113800	-53600	5883	873	1330	8086	54374	3929	58303	3383	
September	113800	85790	-28010	1845	414	127	2386	25972	2491	28463	1933	
October	85790	77690	-8100	1855	403	545	2803	8722	1623	10345	558	
November	77690	83380	5690	7950	531	512	8993	2416	693	3109	194	
December	83380	77340	-6040	12320	962	217	13499	18617	492	19109	430	
Totals			-15630	276345	37985	7709	322039	296642	31402	328044	14388	-4763

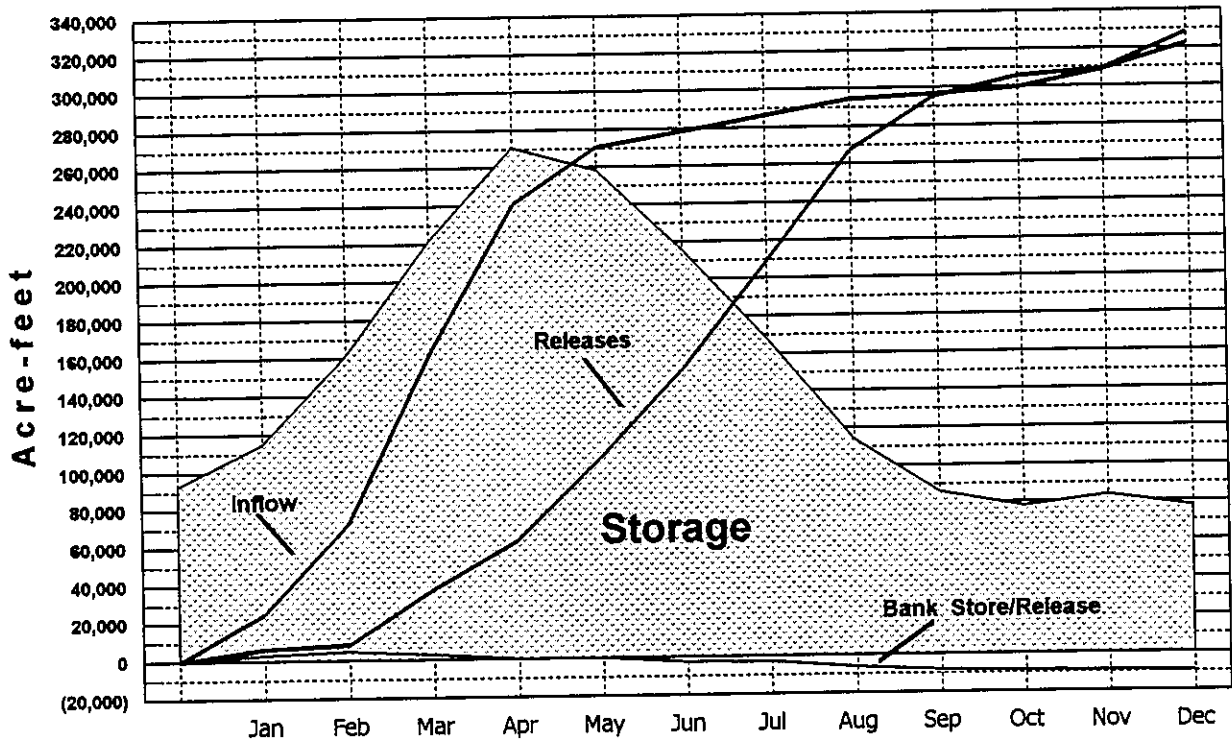
1998

MASS DIAGRAM OF OPERATION OF SAN CARLOS RESERVOIR

In Acre-feet

Month	Storage		Accumulated				Net Result	Monthly Bank Result
	Contents End of Month	Contents Gain or Loss	Inflow Including Rain	Releases Including Evaporation	Bank Storage	Bank Release		
Begin	92,970							
JAN	114,600	21630	24,722	6,313		3221	3221	-3221
FEB	161,200	46600	72,059	8,378		4549	4549	-1328
MAR	221,300	60100	162,648	37,073	-1794		2755	1794
APR	270,600	49300	240,617	62,852	-4684		-135	2890
MAY	257,900	-12700	270,694	105,833		4763	79	-214
JUN	216,400	-42500	278,138	152,982	-7489		-2726	2805
JUL	167,400	-48000	286,272	208,715	-7890		-3127	401
AUG	113,800	-53600	294,358	267,018	-11273		-6510	3383
SEP	85,790	-28010	296,744	295,481	-13206		-8443	1933
OCT	77,690	-8100	299,547	305,826	-13764		-9001	558
NOV	83,380	5690	308,540	308,935	-13968		-9195	194
DEC	77,340	-6040	322,039	328,044	-14388	4763	-9625	430

Graph: STORAGE INFLOW RELEASES BANK STOR/REL



1998

WATER SURFACE ELEVATIONS, SAN CARLOS RESERVOIR

Elevation in feet

1998 DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	2433.76	2438.12	2446.52	2455.83	2461.35	2459.65	2453.94	2446.75	2437.54	2431.77	2430.01	2431.31
2	2433.97	2438.27	2446.90	2456.42	2461.37	2459.50	2453.75	2446.53	2437.24	2431.64	2430.04	2431.26
3	2434.17	2438.40	2447.22	2457.01	2461.38	2459.38	2453.52	2446.27	2436.93	2431.42	2430.11	2431.20
4	2434.37	2438.63	2447.40	2457.50	2461.37	2459.24	2453.21	2446.03	2436.63	2431.33	2430.17	2431.13
5	2434.59	2438.76	2447.57	2457.97	2461.36	2459.13	2453.06	2445.76	2436.26	2431.21	2430.22	2431.00
6	2434.80	2438.90	2447.72	2458.32	2461.35	2458.98	2452.73	2445.46	2436.05	2431.08	2430.33	2430.94
7	2434.99	2439.04	2447.81	2458.67	2461.34	2458.71	2452.43	2445.06	2435.81	2430.92	2430.36	2430.88
8	2435.20	2439.19	2447.86	2459.01	2461.32	2458.56	2452.29	2444.79	2435.60	2430.82	2430.51	2430.84
9	2435.37	2439.34	2447.94	2459.27	2461.32	2458.39	2452.11	2444.50	2435.35	2430.69	2430.48	2430.75
10	2435.55	2439.85	2448.00	2459.52	2461.27	2458.24	2451.90	2444.18	2435.20	2430.53	2430.52	2430.66
11	2435.66	2440.15	2448.04	2459.82	2461.25	2458.11	2451.69	2443.87	2435.02	2430.38	2430.58	2430.63
12	2435.77	2440.40	2448.04	2459.94	2461.21	2457.91	2451.40	2443.53	2434.85	2430.26	2430.68	2430.56
13	2435.89	2440.63	2448.07	2460.05	2461.17	2457.76	2451.14	2443.29	2434.73	2430.11	2430.75	2430.50
14	2436.02	2440.78	2448.07	2460.18	2461.13	2457.58	2450.86	2443.08	2434.54	2429.95	2430.83	2430.46
15	2436.14	2441.17	2448.06	2460.31	2461.13	2457.35	2450.65	2442.77	2434.38	2429.80	2430.89	2430.39
16	2436.27	2441.38	2448.08	2460.44	2461.09	2457.11	2450.39	2442.53	2434.20	2429.73	2430.98	2430.36
17	2436.39	2441.60	2448.24	2460.57	2461.08	2456.93	2450.09	2442.11	2434.06	2429.72	2431.04	2430.31
18	2436.51	2441.80	2448.43	2460.69	2461.03	2456.77	2449.73	2441.88	2433.90	2429.72	2431.09	2430.28
19	2436.66	2442.08	2448.81	2460.79	2461.01	2456.59	2449.40	2441.58	2433.76	2429.71	2431.17	2430.21
20	2436.75	2442.46	2449.19	2460.87	2460.93	2456.39	2449.15	2441.29	2433.53	2429.71	2431.21	2430.21
21	2436.86	2442.85	2449.80	2460.95	2460.87	2456.21	2448.90	2440.92	2433.34	2429.71	2431.28	2430.15
22	2436.96	2443.26	2450.35	2461.00	2460.81	2456.02	2448.63	2440.59	2433.16	2429.73	2431.35	2430.16
23	2437.07	2443.59	2450.68	2461.06	2460.72	2455.74	2448.36	2440.25	2433.02	2729.74	2431.39	2430.11
24	2437.23	2444.12	2451.07	2461.07	2460.62	2455.51	2448.16	2439.96	2432.86	2429.74	2431.49	2430.06
25	2437.36	2444.54	2451.45	2461.10	2460.48	2455.29	2448.05	2439.69	2432.72	2429.84	2431.54	2430.04
26	2437.48	2445.09	2451.69	2461.12	2460.36	2455.10	2447.92	2439.35	2432.57	2429.87	2431.58	2429.99
27	2437.61	2445.66	2452.25	2461.14	2460.24	2454.90	2447.82	2439.03	2432.39	2429.87	2431.54	2429.90
28	2437.70	2446.06	2452.77	2461.19	2460.11	2454.69	2447.60	2438.70	2432.28	2429.87	2431.51	2429.85
29	2437.75		2453.39	2461.26	2459.99	2454.46	2447.46	2438.43	2432.12	2429.88	2431.47	2429.81
30	2437.93		2454.20	2461.30	2459.87	2454.22	2447.31	2438.15	2431.95	2429.93	2431.38	2429.81
31	2437.99		2455.03		2459.75		2447.06	2437.85		2429.98		2429.89

1998

WATER SURFACE AREAS, SAN CARLOS RESERVOIR

Area in acres

1998 DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	4554	5273	6206	7434	8290	8112	7219	6267	5214	4258	3954	4175
2	4587	5296	6248	7545	8293	8093	7182	6241	5163	4234	3959	4165
3	4620	5318	6282	7638	8295	8071	7148	6217	5114	4204	3967	4155
4	4652	5348	6306	7725	8295	8048	7122	6193	5063	4180	3977	4145
5	4687	5377	6324	7800	8294	8031	7069	6168	5009	4162	3987	4129
6	4723	5399	6340	7866	8293	8011	7031	6140	4962	4142	4000	4113
7	4756	5421	6351	7922	8292	7977	6980	6105	4924	4118	4011	4103
8	4788	5446	6358	7975	8290	7943	6946	6073	4889	4096	4026	4095
9	4819	5470	6364	8023	8289	7919	6920	6046	4851	4079	4036	4085
10	4847	5525	6373	8065	8287	7893	6890	6015	4818	4054	4036	4071
11	4872	5590	6376	8107	8283	7871	6856	5985	4790	4029	4044	4061
12	4890	5617	6378	8141	8281	7844	6816	5953	4762	4006	4057	4052
13	4908	5641	6380	8160	8277	7816	6772	5924	4737	3985	4072	4041
14	4929	5660	6381	8172	8273	7789	6729	5903	4713	3959	4083	4033
15	4949	5686	6381	8185	8271	7758	6691	5877	4684	3943	4095	4024
16	4970	5715	6381	8197	8269	7720	6652	5850	4655	3934	4108	4016
17	4990	5736	6390	8210	8267	7686	6608	5817	4630	3931	4120	4009
18	5009	5757	6407	8222	8264	7659	6561	5786	4605	3930	4129	4003
19	5032	5780	6435	8233	8260	7632	6528	5760	4581	3930	4139	3995
20	5052	5812	6472	8241	8255	7602	6499	5731	4551	3929	4148	3989
21	5068	5851	6521	8249	8248	7572	6475	5699	4517	3929	4159	3984
22	5085	5890	6583	8256	8242	7543	6449	5664	4486	3930	4170	3980
23	5102	5926	6652	8261	8235	7505	6423	5631	4459	3932	4178	3997
24	5124	5968	6710	8265	8226	7465	6399	5601	4435	3932	4189	3968
25	5148	6014	6771	8267	8214	7429	6385	5562	4410	3936	4202	3962
26	5168	6062	6819	8269	8201	7397	6373	5511	4388	3942	4209	3956
27	5189	6117	6883	8271	8189	7365	6361	5457	4360	3943	4209	3950
28	5207	6164	6970	8275	8178	7333	6346	5405	4337	3943	4204	3943
29	5219		7060	8281	8165	7298	6328	5356	4314	3943	4197	3939
30	5236		7174	8285	8149	7260	6314	5310	4288	3946	4188	3938
31	5256		7304		8130		6295	5263		3950		3941

1998

AVAILABLE STORED WATER, SAN CARLOS RESERVOIR

Storage in acre-feet

1998 DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	93790	115300	164000	227300	270000	257100	213400	165500	112200	85020	77810	83090
2	94760	116100	166400	231700	271200	255900	212000	164100	110700	84480	77930	82880
3	95680	116800	168400	236300	271300	254900	210400	162500	109100	83550	78210	82630
4	96610	118000	169500	240000	271200	253800	208200	161000	107600	83170	78440	82340
5	97640	118700	170600	243700	271100	252900	207100	159300	105700	82680	78640	81810
6	98630	119400	171600	246500	271000	251700	204800	157500	104700	82140	79080	81560
7	99540	120200	172100	249200	271000	249600	202700	155000	103500	81480	79200	81310
8	100500	121000	172500	251900	270800	248400	201800	153400	102500	81070	79810	81150
9	101400	121800	173000	254000	270800	247000	200500	151600	101300	80540	79690	80780
10	102200	124700	173300	256000	270400	245800	199100	149700	100500	79890	79850	80420
11	102800	126300	173600	258500	270200	244800	197600	147900	99680	79280	80090	80290
12	103300	127700	173600	259500	269900	243200	195600	145800	98870	78800	80500	80010
13	103900	129000	173800	260300	269600	242100	193900	144400	98300	78210	80780	79770
14	104500	129900	173800	261400	269200	240700	192000	143200	97410	77570	81110	79610
15	105100	132100	173700	262500	269200	238900	190600	141400	96660	76980	81350	79320
16	105800	133300	173900	263500	268900	237000	188800	139900	95820	76710	81720	79200
17	106400	134600	174900	264600	268800	235600	186900	137500	95170	76670	81970	79000
18	107000	135700	176100	265600	268400	234400	184500	136200	94440	76670	82180	78880
19	107700	137300	178500	266400	268200	233000	182400	134400	93790	76630	82510	78600
20	108200	139500	181000	267100	267600	231500	180700	132800	92750	76630	82680	78600
21	108700	141800	185000	267700	267100	230200	179100	130700	91890	76630	82960	78360
22	109300	144200	188600	268100	266600	228700	177400	128800	91080	76710	83260	78400
23	109800	146200	190800	268600	265800	226600	175600	126900	90460	76740	83420	78210
24	110600	149400	193400	268700	265000	224900	174400	125300	89750	76740	83840	78010
25	111300	151900	196000	269000	263900	223300	173700	123800	89130	77140	84050	78000
26	111900	155200	197600	269100	262900	221900	172800	121900	88470	77260	84220	77730
27	112600	158700	201500	269300	261900	220400	172200	120100	87690	77260	84050	77380
28	113100	161200	205100	269700	260800	218900	170800	118400	87210	77260	83930	77180
29	113300		209500	270300	259900	217200	169900	116900	86520	77300	83760	77020
30	114300		215300	270600	258900	215400	169000	115400	85790	77490	83380	77020
31	114600		221300		257900		167400	113800		77690		77340

1998

DAILY EVAPORATION, SAN CARLOS RESERVOIR

Acre-feet

1998 DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	16	12	46	67	164	250	175	136	95	77	31	12
2	10	4	48	54	162	160	195	87	92	74	26	13
3	7	15	34	60	141	228	205	153	110	69	29	26
4	10	27	53	68	156	241	160	169	45	87	31	9
5	12	8	55	96	171	165	170	167	20	77	30	9
6	18	9	56	95	173	175	57	128	63	72	23	18
7	17	14	67	90	156	193	126	120	83	61	41	12
8	8	27	41	81	144	222	71	232	95	65	42	10
9	3	21	40	98	116	224	115	143	100	50	34	13
10	25	10	46	93	148	152	123	185	46	49	23	18
11	11	21	59	99	193	138	164	91	73	63	17	10
12	7	16	74	171	188	99	182	136	61	50	14	9
13	4	28	49	80	185	210	233	95	86	49	19	14
14	4	18	28	115	146	171	192	117	136	65	22	15
15	16	55	25	117	137	203	190	136	83	62	21	22
16	10	33	23	59	146	188	200	58	83	64	20	33
17	24	31	22	85	162	278	205	138	93	51	20	24
18	14	9	33	104	103	134	147	168	80	48	22	25
19	14	15	39	122	233	224	194	76	92	53	26	23
20	15	17	52	129	110	199	154	111	97	51	18	11
21	31	21	28	134	177	232	159	89	119	23	22	22
22	21	25	84	156	126	179	114	116	63	20	18	18
23	14	37	71	133	187	243	78	114	93	31	20	15
24	13	30	84	189	174	192	109	145	80	35	14	12
25	16	39	85	178	175	206	134	196	84	37	22	10
26	32	78	126	149	209	205	194	107	68	67	24	9
27	20	50	21	91	251	208	142	104	92	58	16	13
28	11	41	39	121	123	203	173	103	81	32	16	16
29	19		94	132	192	229	200	105	90	24	8	19
30	15		112	104	208	278	129	97	88	29	24	16
31	42		49		200		156	107		30		16
Total	479	711	1683	3270	5156	6029	4846	3929	2491	1623	693	492

Total for year: 31,402 acre-feet

1998

DAILY RAINFALL, SAN CARLOS RESERVOIR

Acre-feet

1998 DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1								37			66	
2				201								
3												149
4	12	85							30			
5	20	282					94					
6	28	4					240		74			
7			222				12					68
8							58	440				
9		406					236				17	
10	40	161						65			34	
11	183					85						
12	4											
13								5				
14			27					133				
15		246	11									
16		76	53	20								
17			11				6	10	23			
18		264	80									
19												
20										7		
21		283						28		16		
22										29		
23										3		
24								19				
25		426						593				
26			6	76						424		
27			293									
28			12									
29			165				58				367	
30			239				210				28	
31			43							66		
Total	287	2233	1162	297		85	914	1330	127	545	512	217

Total for year: 7,709 acre-feet

1998

RAINFALL AT COOLIDGE DAM

Elevation approximately 2,550 feet

inches

1998 DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1								0.07			0.20	
2				0.32								
3												0.43
4	0.03	0.19							0.07			
5	0.05	0.63					0.16					
6	0.07	0.01					0.41		0.18			
7			0.42				0.02					0.20
8							0.10	0.87				
9		0.89					0.41				0.05	
10	0.10	0.35						0.13			0.10	
11	0.45					0.13						
12	0.01											
13								0.01				
14			0.05					0.27				
15		0.52	0.02									
16		0.16	0.10	0.03								
17			0.02				0.01	0.02	0.06			
18		0.55	0.15									
19												
20										0.02		
21		0.58						0.06		0.05		
22										0.09		
23										0.01		
24								0.04				
25		0.85						1.28				
26			0.01	0.11						1.29		
27			0.51									
28			0.02									
29			0.28				0.11				1.05	
30			0.40				0.40				0.08	
31			0.07							0.20		
Total	0.71	4.73	2.05	0.46	0.00	0.13	1.62	2.75	0.31	1.66	1.48	0.63

Note: T-Trace

Total for year: 16.53 inches

1956 - 1998

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	0.80	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

Note: T-Trace