SIXTY-SEVENTH ANNUAL REPORT

2002

DISTRIBUTION OF WATERS OF THE GILA RIVER

by the

GILA WATER COMMISSIONER

D.L. WEESNER

to the

UNITED STATES DISTRICT COURT

C:\MF\yearly\yr02\facepage

TABLE OF CONTENTS

PAGES

PLATES

Payson, Arizona
May 30, 2003

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-Seventh Annual Report** in the above-entitled cause on distribution of waters of the Gila River, tabulation of hydro logic data, and analysis of expenditures and collections for the calendar year 2002.

Very Truly yours,

Don L. Weesner
Gila Water Commissioner

State of Arizona)
) ss:
County of Gila)

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 2002, 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 2002.

Don L. Weesner
Gila Water Commissioner

Subscribed and sworn to before me this 30TH day of MAY, 2003.

OFFICIAL SEAL
YVONNE K. DAVIS
NOTARY PUBLIC - ARIZONA
GILA COUNTY
My Comm. Expires Aug. 4, 2003

Notary Public

My commission expires: 8-4-06

C:\MD\MF\Annual Report Documents\aff.2002.5_30_03.wpd

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
Maria Moore (temp.)	Safford, 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.gilawater.org

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

The vicinity of Cosper Crossing, in Duncan Valley, Arizona, is monitored daily, during periods that the Gila River is not flowing. The observer of that location is Wilbur Lunt, 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:

San Carlos Project	Acres
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, 2002, the stored water in the San Carlos Reservoir amounted to 67,448 acre-feet of the 877,697 acre-feet total capacity. December 31, 2002, there was 36,776 acre-feet available stored water, at 4.2 percent of total capacity.

There was apportioned to the **Upper Valleys** for the year 2002, a total of 1.62 acre-feet of water for each acre then being irrigated.

The **San Carlos Irrigation Project** apportioned a total of 1.46 acre-feet of pumped and stored water for each acre. The gravity diversions of both natural flow and stored water are shown on Plate 27.

The total water diverted from the Gila River under the Decree for the year amounted to 131,510 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 6 to 25.

Determination of when priority water was available is shown on plate 28.

WATER SUPPLY

The flow of the Gila River, as recorded at **Gila River at Head of Safford Valley Near Solomon** for the year 2002, was **100,516 acre-feet**. Inflow into the San Carlos Reservoir from the Gila River and the San Carlos River totaled **45,976** acre-feet.

For the year 2002, there was a total of **290 acre-feet** of water spilled and sluiced at **Ashurst-Hayden Dam**.

COSPER CROSSING

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

Date	Vicinity Condition	Verification	Date	Vicinity Condition	Verification
01/01/02	FLOW	VERIFIED	07/28/02	FLOW	REPORTED
04/12/02	DRY	REPORTED	08/03/02	DRY	REPORTED
06/10/02	FLOW	REPORTED	08/04/02	FLOW	REPORTED
06/11/02	DRY	REPORTED	08/19/02	DRY	REPORTED
06/13/02	FLOW	REPORTED	09/10/02	FLOW	REPORTED
06/14/02	DRY	REPORTED	09/30/02	DRY	REPORTED
06/22/06	FLOW	REPORTED	10/07/02	FLOW	REPORTED
06/23/02	DRY	REPORTED	10/18/02	DRY	REPORTED
07/22/02	FLOW	REPORTED	10/23/02	FLOW	REPORTED
07/27/02	DRY	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:

2002	Gila River below Blue Creek (good)*	San Francisco River at Clifton	Total	Gila at Calva (poor)*	Consumptive use	Accumulated Consumptive
Jan.	5,383	4,622	10,005	9,158	847	847
Feb.	4,897	3,838	8,735	4,639	4,096	4,943
Mar.	4,003	3,945	7,948	3,243	4,705	9,648
Apr.	3,437	2,797	6,234	1,974	4,260	13,908
May	1,845	1,652	3,497	803	2,694	16,602
Jun.	421	746	1,167	22	1,145	17,747
Jul.	2,617	1,820	4,437	275	4,162	21,909
Aug.	5,014	3,654	8,668	3,269	5,399	27,308
Sept.	14,729	17,804	32,533	11,521	21,012	48,320
Oct.	7,002	3,666	10,668	3,370	7,298	55,618
Nov.	4,747	2,795	7,542	887	6,655	62,273
Dec.	5,665	3,941	9,606	2,751	6,855	69,128
Totals	**59,760**	**51,280**	**111,040**	**41,912**	**69,128**	**69,128**

c:\my files\yearlyt\2002\page3.wpd

2002

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.

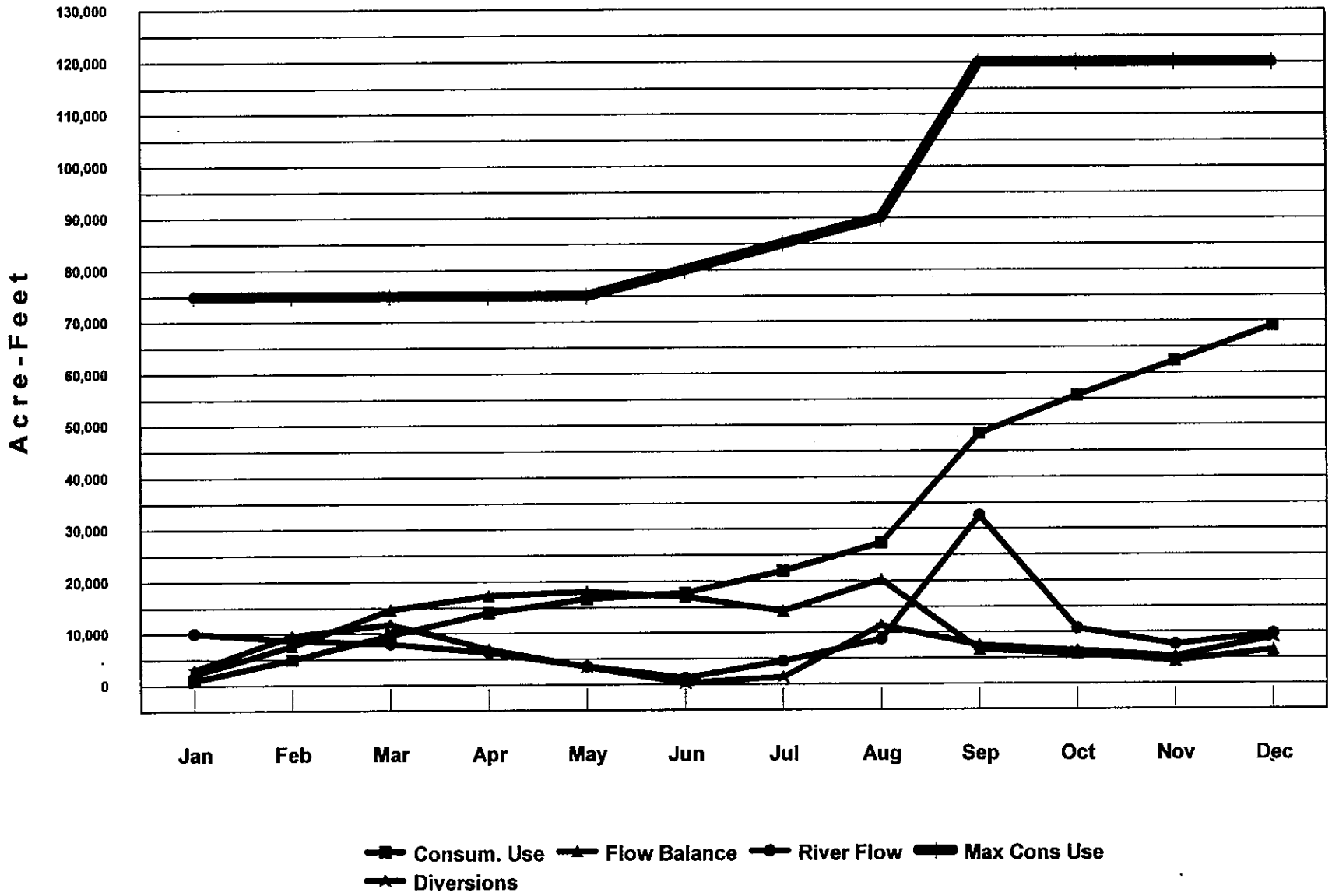
Input data rounded to USGS standards - IN ACRE-FEET

2002	CONSUMPTIVE USE		UPPER VALLEYS AND SAN CARLOS APACHE TRIBE		HEAD OF SAFFORD VALLEY		FLOW BALANCE					ACCUM.	TOTAL	MAXIMUM
					GILA	GILA R.	FB = CALVA - (INFLOWS - DIVERSIONS)							
MONTH	RESULT	ACCUM. RESULT	DIV'S	ACCUM. DIV'S	RIVER FLOW	ACCUM. FLOW	FLOW BALANCE	GILA CALVA	GILA VIRDEN	SAN FRANCISCO CLIFTON	DIV'S	FLOW BALANCE	INFLOW G + SF	CONSUMPTIVE USE RECOMMENDED
JAN	850	850	2,930	2,930	10,050	10,050	2,090	9,160	5,380	4,620	2,930	2,090	10,000	75,000
FEB	4,100	4,940	9,580	12,510	8,940	18,990	5,480	4,640	4,900	3,840	9,580	7,570	8,740	75,000
MAR	4,710	9,650	11,740	24,250	7,320	26,310	7,030	3,240	4,000	3,950	11,740	14,600	7,950	75,000
APR	4,260	13,910	6,880	31,130	5,320	31,630	2,610	1,970	3,440	2,800	6,880	17,210	6,240	75,000
MAY	2,690	16,600	3,430	34,560	3,720	35,350	740	800	1,840	1,650	3,430	17,950	3,490	75,000
JUN	1,150	17,750	190	34,740	2,320	37,670	(960)	20	420	750	190	16,990	1,170	80,000
JUL	4,160	21,910	1,340	36,090	4,490	42,170	(2,820)	280	2,620	1,820	1,340	14,170	4,440	85,000
AUG	5,400	27,310	11,400	47,480	9,630	51,800	6,010	3,270	5,010	3,650	11,400	20,180	8,660	90,000
SEP	21,010	48,320	7,480	54,960	23,140	74,940	(13,530)	11,520	14,730	17,800	7,480	6,650	32,530	120,000
OCT	7,300	55,620	6,440	61,400	8,720	83,660	(860)	3,370	7,000	3,670	6,440	5,790	10,670	120,000
NOV	6,650	62,270	5,160	66,560	6,650	90,310	(1,490)	890	4,750	2,790	5,160	4,300	7,540	120,000
DEC	6,860	69,130	8,930	75,480	10,200	100,520	2,080	2,750	5,660	3,940	8,930	6,380	9,600	120,000
TOTALS	69,130		75,480		100,520		6,380	41,910	59,760	51,280	75,490		111,040	
Graph →		Consum.Use	Diversions							Graph →		Flow Bal	River Flo	Max Cons Use

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

2002

Consumptive Use Accum vs. Diversions vs. River Flow



c:\lotuslwk\123\yearly\2002\conuse_01.123

2002

MONTHLY RIVER FLOWS AND DIVERSIONS, GILA RIVER SYSTEM

Quantities in Acre-feet

	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	TOTAL
Gila Blue	5383	4897	4003	3437	1845	421	2617	5014	14729	7002	4747	5665	59760
Duncan Valley Diversions	988	1096	1634	1683	1151	53	143	1287	1582	2060	1423	974	14074
Gila River near Clifton	4856	4437	2789	1833	1813	1273	2462	8115	6958	5794	3045	5958	47333
San Fran. River @ Clifton	4622	3838	3945	2797	1652	746	1820	3654	17804	3666	2795	3941	51280
Gila Solomon	10048	8944	7315	5322	3721	2321	4495	9634	23141	8721	6655	10199	100516
Safford Valley Diversions	1937	8788	10084	5116	2174	57	1165	10018	5801	4356	3600	7857	60651
San Carlos Agency Divs.			21	77	104	78	37	90	98	24	133	97	759
Gila Calva	9158	4639	3243	1974	803	22	275	3269	11521	3370	887	2751	41912
San Carlos R. @ Peridot	760	785	831	595	71		71	495			44	412	4064
Stored Water	70452	68343	57336	56850	54004	51551	49635	45446	48883	43251	42078	36776	
Gila Below Coolidge Dam	5931	7934	14595	1480	1351	57	79	3478	3455	6849	722	7377	53308
Winkelman Divs. (Indust)	938	1089	1235	1224	1235	1069	1073	1134	1091	1165	1107	1092	13452
Winkelman Divs. (Ag.)													
Gila River @ Kelvin	7236	7353	15721	1646	373	27	102	2916	3317	5631	141	6153	50616
A-H Diversions	6923	6871	14028	1079	22			1704	1436	4943		5568	42574
A-H Spilled									290				290
A-H Sluiced													
A-H Total	6923	6871	14028	1079	22			1704	1726	4943		5568	42864
Loss Kelvin to A-H	313	482	1693	567	351	27	102	1212	1591	688	141	585	7752
Sacaton Diversions													

SUMMARY OF THE GILA RIVER SYSTEM

Quantities in Acre-feet

NATURAL FLOW FROM THE GILA RIVER AND TRIBUTARIES	2002
Gila River Below Blue Creek	59,760
San Francisco River at Clifton	51,280
San Carlos River near Peridot	4,064
Gain from Gila Below Coolidge Dam to Gila at Kelvin	-2,692
INFLOWS, SAN CARLOS RESERVOIR	
Gila River at Calva plus San Carlos River near Peridot	45,976
GILA RIVER BELOW COOLIDGE DAM	53,308
CONTENTS IN STORAGE, SAN CARLOS RESERVOIR	
Available contents January 1, 2002	67,448
Available contents December 31, 2002	36,776
WATER DIVERTED FROM THE GILA RIVER	
Duncan-Virden Valley canal diversions	14,074
Safford Valley canal diversions	60,651
San Carlos Apache Tribe	759
Winkelman Valley Agricultural diversions	0
Winkelman Valley industrial and municipal pumps	
ASARCO Incorporated	12,980
Town of Kearny	433
San Carlos Project	
Natural flow Ashurst-Hayden Dam	21,852
Stored water Ashurst-Hayden Dam	20,722
Natural flow Sacaton Dam	0
TOTAL DIVERSIONS	131,471
SPILLED AND SLUICED ASHURST-HAYDEN DAM	290

SAN CARLOS RESERVOIR

The available stored water in the **San Carlos Reservoir** on January 1, 2002, was 67,448 acre-feet. The maximum storage for the year was on February 13, with 71,555 acre-feet (Plate 47).

In previous years, small flows recorded at **Gila River below Coolidge Dam** (Plate 39), when no water was being released were disregarded and are not shown on Determination of Priority (Plate 28), Natural Flow Releases (Plate 40), Stored Water Releases (Plate 41). However, the small flows were reported during the months of August and September 2002. Reporting of the small flows was necessary because SCIP was attempting to release any natural flow entering the reservoir.

The computed evaporation from the surface of the **San Carlos Reservoir** was 21,817 acre-feet (Plate 48). Computed rainfall on the lake was 1,403 acre-feet (Plate 49). There was a bank storage of 2,926 acre-feet for the year (Plate 43).

APPORTIONMENTS MADE DURING 2002

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	Re-Allocation	Accumulated apportionment
1	01/01/01	32714.19	1.24		1.24
2	02/01/02	33,481.05	0.11		1.35
3	03/05/02	33,725.11	0.00		1.35
4	10/01/02	32,834.35	0.27		1.62
Total Apportionment					1.62

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	03/20/02	100,546.00	0.50	0.50	43,949.58	1.14
2	06/14/02	100,546.00	0.05	0.55	45,465.97	1.22
3	08/09/02	100,546.00	0.09	0.64	44,218.06	1.46
TOTAL				0.34	44,218.06	1.46

SAN CARLOS RESERVOIR MINIMUM POOL

The Court filed an order on August 27, 1999, stipulating that a portion of the stored water in the San Carlos Reservoir would be retained in the reservoir in exchange for delivery of an equal amount of Central Arizona Project ("CAP") water to the San Carlos Irrigation Project. The retained water would accumulate concurrently with the amount of CAP water delivered to SCIP on a daily basis, less losses for evaporation & seepage. The retained water would not be available for apportionments to the Upper Valleys, and in case of spill from the San Carlos Reservoir, would be the first water to spill. The following chart tracks the accumulation of the minimum pool by the month. Daily figures were reported on the Daily Call System, and are available in the Commissioner's office:

Date	Acre-feet
January 1, 2002	18,492
January 31, 2002	18,237
February 28, 2002	17,841
March 31, 2002	17,241
April 30, 2002	23,568
May 31, 2002	28,767
June 30, 2002	34,920
July 31, 2002	36,836
August 31, 2002	40,258
September 30, 2002	38,881
October 31, 2002	37,678
November 30, 2002	37,003
December 31, 2002	36,394

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.

2002	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	380	225	605	811	206
February	330	187	517	701	184
March	353	255	608	824	216
April	563	477	1,040	1,076	36
May	339	853	1,192	1,171	
June	70	1,294	1,364	1,011	
July	131	933	1,064	964	
August	533	224	757	732	
September	267	445	712	776	64
October	629	146	775	806	31
November	368	236	604	761	157
December	389	232	621	816	195
TOTALS	4,352	5,507	9,859	10,449	1,089
Bypass					0
TOTAL					

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 **590 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.

c:\my files\yearlyt\2002\page8.wpd

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 2002 have been supplied to the Water Commissioner and summarized on **Plate 5** of the 2002 yearly report.

LAND USE AUDITS, VIOLATIONS AND PENALTIES

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

Audits of lands being irrigated were made throughout the year of 2002. A summary of those audits can be found on **Plate 2.** Any actions taken and penalties consented to for violations of the TBI regulations can be found on **Page 11**

GERONIMO STATION 2002

The Commissioner's report to the Court Dated May 8, 2002, reported the the Water Quality Injunction was not working. On July 10, 2002 the Commissioner requested that the Water Quality Injunction be suspended. August 23, 2002, an Order was issued by the United States District Court suspending the Water Quality Injunction for the remainder of the 2002 irrigation season. On that date, the Seasonal Average Salinity was 3,805 uS/cm. Daily data in support of the above figures can be found published in the Water Commissioner's 2002 monthly reports or can be seen at the office of the Gila Water Commissioner located at Safford, AZ.

GILA RIVER @ GERONIMO STATION
WATER QUALITY DATA 2002

The following tables for the year 2002 are arranged in the following sequence:

The first column of data is the **original data** beginning with the first of the year and ending on December 31, 2002.

The second column of data is a **comparison of the EC (uS/cm) to flow** in a query format utilizing the EC in a descending quantity. This sorts the EC starting from the highest to the lowest and indicating the date and flow rate on which this reading occurred.

The third column of data is a **comparison of the flow to EC** in a query format utilizing the flow in an ascending quantity. This sorts the flow starting from the lowest to the highest and indicating the date and EC on which this reading occurred.

There are inconsistencies in the EC data which usually happens after a sudden freshet in Gila River. There are times after sudden freshet when the river flows drop substantially however, the EC will still remain at a low reading. This phenomenon, is caused by the cleansing of the river of salts by the sudden freshet and therefore the EC will remain low for a short period of time thereafter during the following low flows. These readings should be disregarded in any analysis of the query's attached.

The flow required to maintain a maximum EC of 2,000 uS/cm falls in the range of 100 – 120 cfs.

Don L. Weesner
Gila Water Commissioner

c:\my files\yearlyt\2002\page9-1.wpd

GILA RIVER @ GERONIMO STATION
WATER QUALITY DATA
2002

The following tables for the year 2002 are arranged in the following sequence:

The first column of data is the **original data** beginning with the first of the year and ending on December 31, 2002.

The second column of data is a **comparison of the EC (uS/cm) to flow** in a query format utilizing the EC in a descending quantity. This sorts the EC starting from the highest to the lowest and indicating the date and flow rate on which this reading occurred.

The third column of data is a **comparison of the flow to EC** in a query format utilizing the flow in an ascending quantity. This sorts the flow starting from the lowest to the highest and indicating the date and EC on which this reading occurred.

There are inconsistencies in the EC data which usually happens after a sudden freshet in Gila River. There are times after sudden freshet when the river flows drop substantially however, the EC will still remain at a low reading. This phenomenon, is caused by the cleansing of the river of salts by the sudden freshet and therefore the EC will remain low for a short period of time thereafter during the following low flows. These readings should be disregarded in any analysis of the query's attached.

The flow required to maintain a maximum EC of 2,000 uS/cm falls in the range of 100 – 120 cfs.

Don L. Weesner
Gila Water Commissioner

GERONIMO STATION WATER QUALITY REPORT
2002
COMPARISON OF EC TO FLOW
DAILY AVERAGE

DATA SOURCE FOR QUERY

ORIGINAL DATA

C:\Lotus\Work\123\Fleedler\Geronimo\Geron2003

DATA FROM CUM AVG GERO

Month	D. Wesener DAY of MONTH	Q FLOW IN CFS	EC ELECT. COND MICRO-S/CM
2002			
1/	1	197.6	2070
1/	2	200.0	1830
1/	3	195.7	1840
1/	4	197.6	1890
1/	5	200.0	1720
1/	6	229.0	1630
1/	7	239.5	1620
1/	8	247.4	1600
1/	9	250.0	1645
1/	10	250.0	1636
1/	11	255.9	1613
1/	12	261.8	1583
1/	13	261.8	1612
1/	14	261.8	1612
1/	15	261.8	1612
1/	16	267.6	1606
1/	17	270.6	1605
1/	18	267.6	1611
1/	19	264.7	1627
1/	20	264.7	1628
1/	21	267.4	1623
1/	22	196.0	1674
1/	23	198.0	1734
1/	24	194.0	1719
1/	25	192.0	1734
1/	26	192.0	1733
1/	27	198.0	1722
1/	28	196.0	1724
1/	29	200.0	1728
1/	30	170.0	1742
1/	31	164.0	1758
2/	1	170.0	1745
2/	2	173.0	1710
2/	3	178.0	1708
2/	4	178.0	1693
2/	5	138.0	1710
2/	6	135.0	1707
2/	7	135.0	1771
2/	8	135.0	1800
2/	9	135.0	1800
2/	10	130.0	1807
2/	11	127.0	1787
2/	12	124.0	1840
2/	13	96.0	2350
2/	14	78.7	2650
2/	15	75.0	2750
2/	16	68.3	2800
2/	17	63.8	2880
2/	18	62.5	2890
2/	19	57.5	2890
2/	20	52.5	2950
2/	21	48.8	3150
2/	22	47.5	3500
2/	23	44.0	3520
2/	24	40.0	3620
2/	25	43.0	3650
2/	26	40.0	3530
2/	27	41.0	3530
2/	28	41.0	3400
3/	1	33.3	3470
3/	2	31.7	3750
3/	3	34.2	3660
3/	4	35.0	3560
3/	5	54.2	3580
3/	6	53.8	3620
3/	7	61.3	3520
3/	8	61.3	3430
3/	9	57.5	3490
3/	10	52.5	3560
3/	11	48.8	3750
3/	12	47.5	3750
3/	13	45.0	3800
3/	14	46.3	3890
3/	15	46.3	3950
3/	16	45.0	4020
3/	17	45.0	4000
3/	18	42.0	3970
3/	19	43.0	4020
3/	20	43.0	3970
3/	21	41.0	4130
3/	22	40.0	4010
3/	23	42.0	3980
3/	24	39.0	3960
3/	25	36.0	3950
3/	26	35.0	4030
3/	27	35.0	4080
3/	28	35.0	4070
3/	29	33.3	4010
3/	30	35.0	4010
3/	31	33.3	3990

SORT BY EC HIGH TO LOW — 01/1 TO 7/28

DATA FROM CUM AVG GERO — QUERY

Month	D. Wesener DAY of MONTH	Q FLOW IN CFS	EC ELECT. COND MICRO-S/CM SORT BY Descending
2002			
11/	18	17.5	5160
7/	25	30.8	5140
11/	19	16.3	5040
11/	17	16.9	4790
11/	20	12.3	4740
5/	23	14.5	4710
5/	21	14.1	4700
5/	24	14.5	4660
5/	25	14.5	4650
11/	9	8.0	4630
5/	22	14.5	4630
11/	15	12.7	4600
5/	26	14.1	4590
11/	13	12.3	4570
11/	16	11.4	4570
11/	8	8.3	4560
6/	9	8.6	4520
6/	8	10.0	4520
10/	3	15.6	4520
10/	21	10.9	4510
10/	1	8.0	4510
10/	2	8.0	4510
11/	14	12.3	4500
6/	5	10.5	4500
5/	13	18.8	4490
6/	11	7.6	4480
5/	27	14.1	4480
6/	10	8.3	4480
10/	24	11.8	4480
5/	14	17.5	4480
10/	22	10.9	4480
5/	19	14.5	4460
6/	12	7.0	4450
6/	13	6.6	4450
6/	6	10.9	4450
10/	23	11.8	4450
4/	30	25.0	4450
10/	4	22.9	4440
10/	25	12.7	4440
5/	18	15.6	4440
6/	26	3.4	4440
6/	1	11.8	4430
5/	31	11.8	4430
5/	7	24.3	4420
5/	17	15.6	4420
5/	1	26.7	4410
5/	15	17.5	4410
6/	7	9.3	4410
4/	28	28.4	4410
7/	24	6.6	4400
10/	6	90.0	4400
10/	5	33.3	4390
7/	23	3.5	4390
5/	12	18.8	4380
5/	20	14.5	4380
11/	10	8.0	4380
5/	29	12.3	4380
5/	30	11.8	4380
5/	2	25.0	4380
5/	28	13.6	4370
10/	26	13.2	4370
5/	6	23.6	4350
6/	2	11.8	4350
8/	28	57.5	4340
4/	17	30.0	4340
4/	22	28.4	4340
4/	18	29.2	4330
5/	4	23.6	4330
5/	16	16.3	4320
5/	3	25.0	4320
6/	17	4.7	4320
6/	25	3.2	4310
5/	9	22.1	4310
4/	29	26.7	4310
11/	6	8.0	4300
6/	4	9.6	4300
4/	19	29.2	4290
4/	25	27.5	4290
4/	23	28.4	4290
4/	3	30.8	4290
4/	4	31.7	4290
4/	11	36.0	4290
12/	2	18.1	4280
4/	9	31.7	4260
4/	27	25.8	4260
11/	12	8.6	4260
5/	8	23.6	4250
4/	2	31.7	4250
5/	5	24.3	4250
5/	11	19.4	4250
6/	28	4.3	4240

SORT BY FLOW LOW TO HIGH — 01/1 TO 7/28

DATA FROM CUM AVG GERO — QUERY

Month	D. Wesener DAY of MONTH	Q FLOW IN CFS SORT BY Asending	EC ELECT. COND MICRO-S/CM
2002			
9/	15	0.0	710
9/	14	0.0	640
9/	13	0.0	650
9/	16	0.0	N/A
9/	17	0.0	N/A
10/	13	0.0	1700
7/	12	2.2	4170
7/	11	2.2	4210
7/	9	2.4	4090
7/	8	2.4	3400
7/	10	2.6	4170
7/	13	2.6	4090
7/	6	2.8	3820
7/	7	2.8	3580
7/	15	2.8	3970
7/	14	2.8	4030
7/	4	2.8	3560
7/	16	2.8	3870
7/	5	2.8	3570
7/	2	3.0	3260
7/	3	3.2	3590
6/	25	3.2	4310
7/	22	3.2	3690
6/	27	3.2	4220
6/	23	3.4	4220
6/	24	3.4	4180
6/	26	3.4	4440
7/	21	3.4	3290
7/	23	3.5	4390
6/	22	3.5	3950
7/	20	3.8	2020
6/	19	4.0	4100
6/	21	4.0	4000
7/	1	4.0	3150
6/	18	4.3	4200
6/	29	4.3	3880
6/	28	4.3	4240
6/	17	4.7	4320
7/	17	4.7	3910
7/	18	4.7	3300
6/	18	5.0	4170
6/	30	5.0	3540
6/	20	5.3	4230
6/	15	5.7	4060
6/	14	6.0	4190
10/	20	6.6	3950
6/	13	6.6	4450
7/	24	6.6	4400
7/	19	6.6	4060
10/	19	7.0	3950
6/	12	7.0	4450
10/	18	7.3	3800
6/	11	7.6	4480
9/	8	7.6	3330
11/	10	8.0	4380
11/	11	8.0	4190
11/	9	8.0	4630
11/	6	8.0	4300
11/	7	8.0	4190
10/	1	8.0	4510
10/	2	8.0	4510
9/	7	8.0	3390
10/	17	8.3	3800
11/	8	8.3	4560
6/	10	8.3	4480
6/	9	8.6	4520
11/	12	8.6	4260
9/	6	8.6	3480
8/	26	9.3	3240
6/	7	9.3	4410
6/	4	9.6	4300
6/	8	10.0	4520
10/	16	10.0	3320
6/	5	10.5	4500
11/	5	10.5	3230
10/	21	10.9	4510
6/	8	10.9	4450
6/	3	10.9	4190
10/	22	10.9	4480
11/	22	10.9	4100
11/	21	11.4	4220
9/	5	11.4	3520
11/	23	11.4	3960
11/	18	11.4	4570
9/	4	11.4	3550
5/	31	11.8	4430
6/	2	11.8	4350
6/	1	11.8	4430
5/	30	11.8	4380
10/	24	11.8	4480

4/	1	34.2	3910
4/	2	31.7	4250
4/	3	30.8	4290
4/	4	31.7	4290
4/	5	30.8	4230
4/	6	30.0	4180
4/	7	35.0	4120
4/	8	33.3	4040
4/	9	31.7	4260
4/	10	39.0	4210
4/	11	36.0	4290
4/	12	34.2	4190
4/	13	31.7	4160
4/	14	30.8	4140
4/	15	30.8	4110
4/	16	29.2	4230
4/	17	30.0	4340
4/	18	29.2	4330
4/	19	29.2	4290
4/	20	27.5	4230
4/	21	26.7	4190
4/	22	28.4	4340
4/	23	28.4	4290
4/	24	27.5	4020
4/	25	27.5	4290
4/	26	28.4	4410
4/	27	25.8	4260
4/	28	25.0	4230
4/	29	26.7	4310
4/	30	25.0	4450
5/	1	26.7	4410
5/	2	25.0	4380
5/	3	25.0	4320
5/	4	23.6	4330
5/	5	24.3	4250
5/	6	23.6	4350
5/	7	24.3	4420
5/	8	23.6	4250
5/	9	22.1	4310
5/	10	20.7	4230
5/	11	19.4	4250
5/	12	18.8	4380
5/	13	18.8	4490
5/	14	17.5	4480
5/	15	17.5	4410
5/	16	16.3	4320
5/	17	15.6	4420
5/	18	15.6	4440
5/	19	14.5	4460
5/	20	14.5	4380
5/	21	14.1	4700
5/	22	14.5	4630
5/	23	14.5	4710
5/	24	14.5	4660
5/	25	14.5	4650
5/	26	14.1	4590
5/	27	14.1	4480
5/	28	13.6	4370
5/	29	12.3	4380
5/	30	11.8	4380
5/	31	11.8	4430
6/	1	11.8	4450
6/	2	11.8	4350
6/	3	10.9	4190
6/	4	9.6	4300
6/	5	10.5	4500
6/	6	10.9	4450
6/	7	9.3	4410
6/	8	10.0	4520
6/	9	8.6	4520
6/	10	8.3	4480
6/	11	7.6	4480
6/	12	7.0	4450
6/	13	6.6	4450
6/	14	6.0	4190
6/	15	5.7	4060
6/	16	5.0	4170
6/	17	4.7	4320
6/	18	4.3	4200
6/	19	4.0	4100
6/	20	5.3	4230
6/	21	4.0	4000
6/	22	3.5	3950
6/	23	3.4	4220
6/	24	3.4	4180
6/	25	3.2	4310
6/	26	3.4	4440
6/	27	3.2	4220
6/	28	4.3	4240
6/	29	4.3	3880
6/	30	5.0	3540

6/	28	15.1	4240	
10/	27	13.2	4230	
6/	20	5.3	4230	
5/	10	20.7	4230	
4/	16	29.2	4230	
4/	20	27.5	4230	
4/	28	25.0	4230	
4/	5	30.8	4230	
11/	21	11.4	4220	
6/	27	3.2	4220	
6/	23	3.4	4220	
7/	11	2.2	4210	
4/	10	39.0	4210	
6/	19	4.3	4200	
6/	14	6.0	4190	
6/	3	10.9	4190	
11/	7	8.0	4190	
4/	21	26.7	4190	
11/	11	8.0	4190	
4/	12	34.2	4190	
6/	24	3.4	4180	
4/	6	30.0	4180	
7/	10	2.6	4170	
7/	12	2.2	4170	
6/	16	5.0	4170	
10/	26	13.6	4170	
4/	13	31.7	4160	
10/	26	13.6	4160	
4/	14	30.8	4140	
3/	21	41.0	4130	
10/	7	152.4	4130	
4/	7	35.0	4120	
4/	15	30.8	4110	
10/	8	600.0	4100	
6/	18	4.0	4100	
11/	22	10.9	4100	
7/	9	2.4	4090	
7/	13	2.6	4090	
3/	27	35.0	4080	
3/	26	35.0	4070	
7/	19	6.6	4060	
6/	15	5.7	4060	
4/	8	33.3	4040	
7/	14	2.8	4030	
3/	28	35.0	4030	
3/	16	45.0	4020	
4/	24	27.5	4020	
3/	19	43.0	4020	
3/	30	35.0	4010	
3/	29	33.3	4010	
3/	22	40.0	4010	
6/	21	4.0	4000	
3/	17	45.0	4000	
9/	3	20.7	3990	
3/	31	33.3	3990	
11/	24	12.7	3990	
10/	30	13.6	3980	
3/	24	39.0	3980	
3/	23	42.0	3980	
3/	20	43.0	3970	
3/	18	42.0	3970	
7/	15	2.8	3970	
11/	23	11.4	3960	
3/	15	46.3	3950	
6/	22	3.5	3950	
10/	20	6.6	3950	
10/	19	7.0	3950	
3/	25	36.0	3950	
8/	20	37.0	3940	
7/	17	4.7	3910	
4/	1	34.2	3910	
10/	31	14.1	3900	
3/	14	46.3	3890	
6/	29	4.3	3880	
7/	18	2.8	3870	SF
11/	25	17.5	3860	SF
9/	30	12.7	3840	SF
9/	11	192.9	3830	
11/	30	24.3	3830	
7/	8	2.8	3820	
9/	29	16.3	3810	
10/	17	8.3	3800	
10/	18	7.3	3800	
3/	13	45.0	3800	
3/	12	47.5	3750	
3/	11	48.8	3750	
9/	28	19.4	3740	
3/	2	31.7	3730	
11/	26	13.6	3730	
11/	28	16.3	3710	
11/	29	14.1	3700	

10/	23	11.8	4450
11/	14	12.3	4500
11/	20	12.3	4740
5/	29	12.3	4380
11/	13	12.3	4570
10/	25	12.7	4440
11/	24	12.7	3990
11/	15	12.7	4600
9/	30	12.7	3840
10/	26	13.2	4370
9/	10	13.2	2770
10/	27	13.2	4230
10/	28	13.6	4170
5/	28	13.6	4370
11/	4	13.6	3420
10/	29	13.6	4160
10/	30	13.6	3980
11/	28	13.6	3730
12/	1	14.1	3680
11/	3	14.1	2100
10/	31	14.1	3900
11/	1	14.1	3640
5/	21	14.1	4700
5/	26	14.1	4590
11/	29	14.1	3700
5/	27	14.1	4480
8/	27	14.1	3600
5/	22	14.5	4630
5/	19	14.5	4480
5/	20	14.5	4380
5/	23	14.5	4710
5/	24	14.5	4660
5/	25	14.5	4650
11/	27	15.0	3590
10/	15	15.0	2680
8/	28	15.1	4240
5/	18	15.6	4440
5/	17	15.6	4420
9/	2	15.6	3620
10/	3	15.6	4520
8/	25	16.3	3110
5/	16	16.3	4320
9/	29	16.3	3810
9/	1	16.3	3340
11/	26	16.3	3710
11/	19	16.3	5040
12/	21	16.9	3090
9/	23	16.9	1910
11/	2	16.9	3500
11/	17	16.9	4790
9/	24	16.9	2450
5/	14	17.5	4480
11/	18	17.5	5180
5/	15	17.5	4410
11/	25	17.5	3860
12/	2	18.1	4280
9/	27	18.1	3590
12/	16	18.8	2740
12/	22	18.8	3080
5/	13	18.8	4490
5/	12	18.8	4380
9/	28	19.4	3740
5/	11	19.4	4250
12/	3	20.0	2150
12/	15	20.0	2570
12/	18	20.7	2900
5/	10	20.7	4230
9/	3	20.7	3990
8/	4	21.4	2470
12/	23	21.4	3080
5/	9	22.1	4310
10/	4	22.9	4440
12/	9	22.9	2710
9/	9	22.9	3500
8/	24	22.9	2770
5/	8	23.6	4350
5/	4	23.6	4330
12/	17	23.6	2950
8/	31	23.6	3100
12/	20	23.6	3080
5/	6	23.6	4250
8/	19	24.0	3580
11/	30	24.3	3830
5/	7	24.3	4420
5/	5	24.3	4250
8/	18	24.3	3540
8/	17	24.3	2660
8/	16	24.3	3350
4/	29	25.0	4230
12/	14	25.0	2460
4/	30	25.0	4450

c:\my files\yearlyt\2002\page9-4.wpd

7/	1	4.0	3150
7/	2	3.0	3260
7/	3	3.2	3590
7/	4	2.8	3560
7/	5	2.8	3570
7/	6	2.8	3820
7/	7	2.8	3580
7/	8	2.4	3400
7/	9	2.4	4090
7/	10	2.6	4170
7/	11	2.2	4210
7/	12	2.2	4170
7/	13	2.6	4090
7/	14	2.8	4030
7/	15	2.8	3970
7/	16	2.8	3870
7/	17	4.7	3910
7/	18	4.7	3300
7/	19	6.6	4060
7/	20	3.8	2020
7/	21	3.4	3290
7/	22	3.2	3690
7/	23	3.5	4390
7/	24	6.6	4400
7/	25	30.8	5140
7/	26	51.3	2180
7/	27	36.0	1890
7/	28	27.5	2540
7/	29	85.0	2760
7/	30	140.0	930
7/	31	120.0	1010
8/	1	104.0	1150
8/	2	57.5	1450
8/	3	33.3	1980
8/	4	21.4	2470
8/	5	255.9	1920
8/	6	600.0	540
8/	7	221.1	630
8/	8	587.5	640
8/	9	185.7	750
8/	10	57.5	1670
8/	11	53.8	2560
8/	12	33.3	2720
8/	13	50.0	3680
8/	14	38.0	2800
8/	15	27.5	2960
8/	16	24.3	3350
8/	17	24.3	2680
8/	18	24.3	3540
8/	19	24.0	3580
8/	20	37.0	3940
8/	21	110.0	3800
8/	22	100.0	1950
8/	23	38.0	2160
8/	24	22.9	2770
8/	25	16.3	3110
8/	26	9.3	3240
8/	27	14.1	3800
8/	28	15.1	4240
8/	29	57.5	4340
8/	30	50.0	3050
8/	31	23.6	3100
9/	1	16.3	3340
9/	2	15.6	3620
9/	3	20.7	3980
9/	4	11.4	3550
9/	5	11.4	3520
9/	6	8.6	3480
9/	7	8.0	3390
9/	8	7.6	3330
9/	9	22.9	3500
9/	10	13.2	2770
9/	11	192.9	3830
9/	12	745.5	1230
9/	13	0.0	650
9/	14	0.0	640
9/	15	0.0	710
9/	16	0.0	N/A
9/	17	0.0	N/A
9/	18	118.0	1020
9/	19	62.5	1280
9/	20	38.0	1510
9/	21	32.5	1660
9/	22	30.0	1780
9/	23	16.9	1910
9/	24	16.9	2450
9/	25	30.8	3120
9/	26	28.4	3340
9/	27	18.1	3590
9/	28	19.4	3740
9/	29	16.3	3810
9/	30	12.7	3840

7/	22	3.2	3690
12/	1	14.1	3680
8/	13	50.0	3680
3/	3	34.2	3660
2/	25	43.0	3650
11/	1	14.1	3640
2/	24	40.0	3620
9/	2	15.6	3620
3/	6	53.8	3620
8/	27	14.1	3600
8/	21	110.0	3600
7/	3	3.2	3590
9/	27	18.1	3590
11/	27	15.0	3590
7/	7	2.8	3580
8/	19	24.0	3580
7/	5	2.8	3570
7/	4	2.8	3560
3/	10	52.5	3560
3/	5	54.2	3560
3/	4	35.0	3560
9/	4	11.4	3550
6/	30	5.0	3540
8/	18	24.3	3540
2/	26	40.0	3530
2/	27	41.0	3530
3/	7	61.3	3520
9/	5	11.4	3520
2/	23	44.0	3520
2/	22	47.5	3500
9/	9	22.9	3500
11/	2	16.9	3500
3/	9	57.5	3490
9/	6	8.6	3480
3/	1	33.3	3470
3/	8	61.3	3430
11/	4	13.8	3420
7/	8	2.4	3400
2/	28	41.0	3400
9/	7	8.0	3390
8/	16	24.3	3350
9/	1	16.3	3340
9/	26	28.4	3340
9/	8	7.6	3330
10/	16	10.0	3320
7/	18	4.7	3300
12/	24	30.0	3290
7/	21	3.4	3290
12/	25	47.5	3280
7/	2	3.0	3280
12/	5	30.8	3250
8/	26	9.3	3240
11/	5	10.5	3230
2/	21	48.8	3150
7/	1	4.0	3150
9/	25	30.8	3120
8/	25	16.3	3110
8/	31	23.6	3100
12/	21	16.9	3090
12/	22	18.8	3080
12/	20	23.6	3080
12/	4	25.0	3070
12/	23	21.4	3060
8/	30	50.0	3050
12/	19	25.0	2980
8/	15	27.5	2960
12/	6	33.3	2950
2/	20	52.5	2950
12/	17	23.6	2950
12/	18	20.7	2900
2/	19	57.5	2890
2/	18	62.5	2880
2/	17	63.8	2880
8/	14	38.0	2800
12/	26	66.3	2800
2/	16	88.3	2800
9/	10	13.2	2770
8/	24	22.9	2770
7/	29	65.0	2760
12/	10	25.0	2760
2/	15	75.0	2750
12/	16	18.8	2740
8/	12	33.3	2720
12/	11	27.5	2720
12/	9	22.9	2710
12/	7	31.7	2690
10/	15	15.0	2680
8/	17	24.3	2660
12/	8	30.0	2660
2/	14	76.7	2650
12/	12	30.8	2630
12/	15	20.0	2570

5/	2	25.0	4380
5/	3	25.0	4320
12/	4	25.0	3070
12/	10	25.0	2760
12/	19	25.0	2980
4/	27	25.8	4260
5/	1	26.7	4410
4/	21	26.7	4190
4/	29	26.7	4310
8/	15	27.5	2960
4/	20	27.5	4230
4/	25	27.5	4290
4/	24	27.5	4020
12/	11	27.5	2720
7/	28	27.5	2540
4/	26	28.4	4410
4/	23	28.4	4290
4/	22	28.4	4340
9/	26	28.4	3340
4/	18	29.2	4330
4/	16	29.2	4230
4/	19	29.2	4290
9/	22	30.0	1780
4/	17	30.0	4340
4/	6	30.0	4180
12/	24	30.0	3290
12/	8	30.0	2660
7/	25	30.8	5140
4/	3	30.8	4290
12/	5	30.8	3250
4/	15	30.8	4110
12/	12	30.8	2630
4/	14	30.8	4140
9/	25	30.8	3120
4/	5	30.8	4230
12/	7	31.7	2690
3/	2	31.7	3730
4/	13	31.7	4160
4/	9	31.7	4260
4/	2	31.7	4250
4/	4	31.7	4290
9/	21	32.5	1660
12/	13	32.5	2520
8/	12	33.3	2720
4/	8	33.3	4040
12/	6	33.3	2950
10/	5	33.3	4390
3/	29	33.3	4010
3/	31	33.3	3990
3/	1	33.3	3470
8/	3	33.3	1980
4/	12	34.2	4190
4/	1	34.2	3910
3/	3	34.2	3660
3/	4	35.0	3580
3/	28	35.0	4030
3/	27	35.0	4080
3/	28	35.0	4070
3/	30	35.0	4010
4/	7	35.0	4120
3/	25	36.0	3950
7/	27	36.0	1890
4/	11	36.0	4290
9/	20	36.0	1510
8/	20	37.0	3940
8/	14	38.0	2800
8/	23	38.0	2160
4/	10	39.0	4210
3/	24	39.0	3980
2/	24	40.0	3620
3/	22	40.0	4010
2/	26	40.0	3530
3/	21	41.0	4130
2/	28	41.0	3400
2/	27	41.0	3530
3/	23	42.0	3980
3/	18	42.0	3970
2/	25	43.0	3850
3/	19	43.0	4020
3/	20	43.0	3970
2/	23	44.0	3520
3/	16	45.0	4020
3/	13	45.0	3800
3/	17	45.0	4000
10/	14	45.0	2150
3/	15	46.3	3950
3/	14	46.3	3890
2/	22	47.5	3500
3/	12	47.5	3750
12/	25	47.5	3280
3/	11	48.8	3750
2/	21	48.8	3150

10/	1	8.0	4510
10/	2	8.0	4510
10/	3	15.6	4520
10/	4	22.9	4440
10/	5	33.3	4390
10/	6	90.0	4400
10/	7	152.4	4130
10/	8	600.0	4100
10/	9	2122.0	640
10/	10	713.6	460
10/	11	178.6	810
10/	12	100.0	1230
10/	13	0.0	1700
10/	14	45.0	2150
10/	15	15.0	2680
10/	16	10.0	3320
10/	17	8.3	3800
10/	18	7.3	3800
10/	19	7.0	3950
10/	20	6.6	3950
10/	21	10.9	4510
10/	22	10.9	4480
10/	23	11.8	4450
10/	24	11.8	4480
10/	25	12.7	4440
10/	26	13.2	4370
10/	27	13.2	4230
10/	28	13.6	4170
10/	29	13.6	4160
10/	30	13.6	3980
10/	31	14.1	3900
11/	1	14.1	3640
11/	2	16.9	3500
11/	3	14.1	2100
11/	4	13.6	3420
11/	5	10.5	3230
11/	6	8.0	4300
11/	7	8.0	4190
11/	8	8.3	4580
11/	9	8.0	4630
11/	10	8.0	4380
11/	11	8.0	4190
11/	12	8.6	4280
11/	13	12.3	4570
11/	14	12.3	4500
11/	15	12.7	4600
11/	16	11.4	4570
11/	17	16.9	4790
11/	18	17.5	5160
11/	19	16.3	5040
11/	20	12.3	4740
11/	21	11.4	4220
11/	22	10.9	4100
11/	23	11.4	3980
11/	24	12.7	3990
11/	25	17.5	3860
11/	26	16.3	3710
11/	27	15.0	3590
11/	28	13.6	3730
11/	29	14.1	3700
11/	30	24.3	3830
12/	1	14.1	3680
12/	2	18.1	4280
12/	3	20.0	2150
12/	4	25.0	3070
12/	5	30.8	3250
12/	6	33.3	2950
12/	7	31.7	2690
12/	8	30.0	2660
12/	9	22.9	2710
12/	10	25.0	2760
12/	11	27.5	2720
12/	12	30.8	2630
12/	13	32.5	2520
12/	14	25.0	2460
12/	15	20.0	2570
12/	16	18.8	2740
12/	17	23.6	2950
12/	18	20.7	2900
12/	19	25.0	2980
12/	20	23.6	3080
12/	21	16.9	3090
12/	22	18.8	3080
12/	23	21.4	3060
12/	24	30.0	3290
12/	25	47.5	3280
12/	26	66.3	2800
12/	27	70.0	2390
12/	28	61.3	2370
12/	29	66.3	2430
12/	30	71.7	2400
12/	31	80.0	2360

8/	11	53.8	2560
7/	26	27.5	2540
12/	13	32.5	2520
8/	4	21.4	2470
12/	14	25.0	2460
9/	24	16.9	2450
12/	29	66.3	2430
12/	30	71.7	2400
12/	27	70.0	2390
12/	28	61.3	2370
12/	31	80.0	2360
2/	13	95.0	2350
7/	26	51.3	2180
8/	23	38.0	2160
10/	14	45.0	2150
12/	3	20.0	2150
11/	3	14.1	2100
1/	1	197.6	2070
7/	20	3.8	2020
8/	3	33.3	1980
8/	22	100.0	1950
8/	5	255.9	1920
9/	23	16.9	1910
7/	27	36.0	1890
1/	4	197.6	1890
1/	3	185.7	1840
2/	12	124.0	1840
1/	2	200.0	1830
2/	10	130.0	1807
2/	8	135.0	1800
2/	9	135.0	1800
2/	11	127.0	1787
9/	22	30.0	1780
2/	7	135.0	1771
1/	31	184.0	1758
2/	1	170.0	1745
1/	30	170.0	1742
1/	25	192.0	1734
1/	23	198.0	1734
1/	26	192.0	1733
1/	29	200.0	1728
1/	28	198.0	1724
1/	27	198.0	1722
1/	5	200.0	1720
1/	24	194.0	1719
2/	5	138.0	1710
2/	2	173.0	1710
2/	3	179.0	1708
2/	6	135.0	1707
10/	13	0.0	1700
2/	4	179.0	1693
1/	22	196.0	1674
8/	10	57.5	1670
9/	21	32.5	1660
1/	9	250.0	1645
1/	10	250.0	1636
1/	6	228.0	1630
1/	20	264.7	1629
1/	19	264.7	1627
1/	21	267.4	1623
1/	7	239.5	1620
1/	11	255.9	1613
1/	15	261.8	1612
1/	14	261.8	1612
1/	13	261.8	1612
1/	18	267.6	1611
1/	16	267.6	1609
1/	17	270.6	1605
1/	8	247.4	1600
1/	12	261.8	1593
9/	20	36.0	1510
8/	2	57.5	1450
9/	18	62.5	1280
10/	12	100.0	1230
9/	12	745.5	1230
8/	1	104.0	1150
9/	19	118.0	1020
7/	31	120.0	1010
7/	30	140.0	930
10/	11	178.6	810
8/	9	185.7	750
9/	15	0.0	710
9/	13	0.0	650
9/	14	0.0	640
8/	8	587.5	640
10/	9	2122.0	640
8/	7	221.1	630
8/	6	600.0	540
10/	10	713.6	460
9/	16	0.0	N/A
9/	17	0.0	N/A

8/	30	50.0	3050
8/	13	50.0	3680
7/	28	51.3	2180
2/	20	52.5	2850
3/	10	52.5	3560
8/	11	53.8	2560
3/	8	53.8	3620
3/	5	54.2	3580
8/	2	57.5	1450
2/	19	57.5	2890
8/	29	57.5	4340
3/	9	57.5	3490
8/	10	57.5	1670
12/	28	61.3	2370
3/	8	61.3	3430
3/	7	61.3	3520
9/	19	62.5	1280
2/	18	62.5	2880
2/	17	63.8	2880
7/	29	65.0	2760
12/	29	66.3	2430
12/	26	66.3	2800
2/	16	68.3	2900
12/	27	70.0	2390
12/	30	71.7	2400
2/	15	75.0	2750
2/	14	76.7	2850
12/	31	80.0	2360
12/	31	80.0	2360
10/	6	90.0	4400
2/	13	95.0	2350
8/	22	100.0	1950
10/	12	100.0	1230
8/	1	104.0	1150
8/	21	110.0	3800
9/	19	118.0	1020
7/	31	120.0	1010
2/	12	124.0	1840
2/	11	127.0	1787
2/	10	130.0	1807
2/	6	135.0	1707
2/	9	135.0	1800
2/	8	135.0	1800
2/	7	135.0	1771
2/	5	138.0	1710
7/	30	140.0	930
10/	7	152.4	4130
1/	31	184.0	1758
2/	1	170.0	1745
1/	30	170.0	1742
2/	2	173.0	1710
10/	11	178.6	810
2/	4	179.0	1693
2/	3	179.0	1708
8/	9	185.7	750
1/	3	185.7	1840
1/	25	192.0	1734
1/	26	192.0	1733
9/	11	192.9	3830
1/	24	194.0	1719
1/	22	196.0	1674
1/	1	197.6	2070
1/	4	197.6	1890
1/	23	198.0	1734
1/	27	198.0	1722
1/	28	198.0	1724
1/	29	200.0	1728
1/	5	200.0	1720
1/	2	200.0	1830
8/	7	221.1	630
1/	6	228.0	1630
1/	7	239.5	1620
1/	8	247.4	1600
1/	9	250.0	1645
1/	10	250.0	1636
1/	11	255.9	1613
8/	5	255.9	1920
1/	12	261.8	1593
1/	14	261.8	1612
1/	13	261.8	1612
1/	15	261.8	1612
1/	20	264.7	1629
1/	19	264.7	1627
1/	21	267.4	1623
1/	16	267.6	1609
1/	18	267.6	1611
1/	17	270.6	1605
8/	8	587.5	640
8/	6	600.0	540
10/	8	600.0	4100
10/	10	713.6	460
9/	12	745.5	1230

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 2002, the Commissioner's Office was notified by the G.V.I.D., in their letter dated April 9, 2002, that no actions were taken by the G.V.I.D to improve the water quality in the Gila River since their last report dated September 5, 2001. June 7, 2002, the Commissioner's Office received notice from G.V.I.D. that no efforts had been instituted to minimize the salt content of the water of the Gila River since their report dated April 9, 2002. No other information from G.V.I.D. concerning this matter was received and the Commissioner assumes that no action was taken during the remainder of the year 2002.

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 (January 2002),no revisions throughout the year) 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 2002.

Location	Decreed Acres	Multiple use Acreage (lawns, trees, gardens, orchards & pastures) TBI	Yards Acres TBI	Garden Acres TBI	Orchard Acres TBI	Pasture Acres TBI	Commercial Acres TBI	TOTAL ACRES TBI
Duncan/ Virden Valley	38.88	18.58	7.15	1.20	2.03	1.20	0.00	30.16
Safford Valley	391.10	240.61	7.06	3.93	14.61	42.57	9.05	317.83
Lower Valley SCIDD	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	429.98	259.19	14.21	5.13	16.64	43.77	9.05	347.99

The percent of Small Parcel TBI decreed lands irrigated in 2002 was 80.9 percent of the total Small Parcel decreed lands submitted to the Commissioner's Office in 2002.

GILA WATER COMMISSIONER
Donald L. Weesner
HC 2 Box 95-F
Payson, AZ 85441
Telephone (928) 478-4039

UNITED STATES DISTRICT COURT

DISTRICT OF ARIZONA

UNITED STATES OF AMERICA,

Plaintiff,

and

GILA RIVER INDIAN COMMUNITY,

Plaintiff in Intervention,

and

SAN CARLOS APACHE TRIBE,

Plaintiff in Intervention,

Vs.

GILA VALLEY IRRIGATION DISTRICT, ET AL.,

Defendants.

Case No.:GLOBE EQUITY NO. 59 (JCC)

REPORT OF GILA WATER COMMISSIONER OF ACTIONS TAKEN TO RESOLVE VIOLATIONS OF "THEN BEING IRRIGATED" (TBI) REGULATIONS IN CALENDAR YEAR 2002

(Assigned to the Honorable John C. Coughenour)

The Court in its Final Memorandum and Order dated September 18, 1992 and Phase IV Memorandum and Order dated April 14, 1995, ordered that TBI regulations be adopted. The TBI regulations were approved and adopted by the Court by order dated June 3, 1996. These Regulations require the Gila Water Commissioner to conduct periodic audits of lands under the Gila Decree to determine if any violations of the Regulations have occurred. The Commissioner is authorized by the regulations to informally resolve violations as outlined in Section 4.2 of the Regulations.

A written summation of the action taken by the Commissioner to resolve such violations and the penalty consented to is to be filed with the Court within sixty (60) days thereof and shall be included in the monthly report next published by the Commissioner after such sixty (60) days has elapsed and in the annual report filed with the Court. A copy of the cease and desist orders and consents thereto shall be kept in the records of the Commissioner for three (3) years from the date of filing with the Court.

Pursuant to the Commissioner's audit of lands under the Gila Decree, violations of the TBI regulations in calendar year 2002 were determined and resolved as follows:

SEE ATTACHMENT "A" FOR SUMMATION OF VIOLATIONS AND RESOLUTIONS THEREOF.

Respectfully submitted this 28th day of March, 2003.

Donald L. Weesner
Gila Water Commissioner

ORIGINAL AND TWO COPIES of the foregoing mailed this 28th day of March, 2003 to:

William M. McCool
Chief Deputy Clerk
United States District Court
405 W. Congress
Tucson, AZ 85701

TWO COPIES of the foregoing
mailed this 28th day of March, 2003 to:

Honorable John C. Coughenour
609 United States Courthouse
1010 5th Avenue
Seattle, WA 98104 and

C:\DW\MD\MF\Court\2002Ann_Audit.Report.wpd

COPY of the foregoing mailed to:

Mr. Jon Allred
Assistant Water Commissioner
P. O. Box 152
Safford, AZ 85546

Michael J. Brophy, Esq.
Ryley, Carlock & Applewhite
One North Central Ave., Suite 1200
Phoenix, AZ 85004-4417

David A. Brown, Esq
Brown & Brown
P.O Box 3128
Pinetop, AZ 85935

F. Patrick Barry, Esq.
U.S. Dept. of Justice
Environment & Natural Resources Div.
Indian Resources Section
P.O. Box 44378
Washington, D.C. 20026-4378

Graham M. Clark, Jr., Esq.
Assistant Attorney General
1275 West Washington
Phoenix, AZ 85007

L. Anthony Fines, Esq.
Fines & Oden
627 North Sixth Avenue
Tucson, AZ 85705

Robert Hoffman
6035 N. 45th Street
Paradise Valley, AZ 85253-4001

Ralph E. Hunsaker, Esq.
The Cavanagh Law Firm
1850 N. Central, Ste. 2400
Phoenix, AZ 85004

James W. Johnson, Esq./Lauren Caster, Esq.
Fennemore Craig P.C.
3003 N. Central, Ste. 2600
Phoenix, AZ 85012-2913

Richard N. Morrison, Esq.
Salmon, Lewis & Weldon
2850 E. Camelback Rd. Suite 200
Phoenix, AZ 85016

Irval L. Mortensen, Esq.
Safford City Attorney
PO Box 192
Safford, AZ 85548

Carlos D. Ronstadt
Snell & Wilmer
One Arizona Center
400 E. Van Buren
Phoenix, AZ 85004-0001

W. Patrick Schiffer, Esq.
Acting Chief Counsel
Dept. of Water Resources
500 N. Third Street
Phoenix, AZ 85004

Riney B. Salmon II, Esq./John Weldon, Esq.
Mark A. McGinnis, Esq.
Salmon, Lewis & Weldon
2850 E. Camelback Rd., Ste. 200
Phoenix, AZ 85016

Joe Sparks, Esq.
John H. Ryley, Esq.
Sparks, Tehan & Ryley
7503 First Street
Scottsdale, AZ 85251

Lee H. Storey, Esq.
Moyes Storey
3003 N. Central, Ste. 1250
Phoenix, AZ 85012

Daniel Jackson, Esq.
Office of the Field Solicitor
Department of the Interior
Suite 404 Sandra Day O'Connor U.S. Courthouse
401 W. Washington St. SPC 44
Phoenix, AZ 85003-2151

Rodney B. Lewis, Esq.-Steven J.W. Heeley, Esq.
John T. Hestand, Esq.-James D. Hill, Esq.
Gila River Indian Community
PO Box 5090
Chandler, AZ 85226

Mr. Don L. Weesner
Gila Water Commissioner
HC 2 Box 95F
Payson, AZ 85541

Rev. 3/23/2003

ATTACHMENT "A"

According to the Commissioner's 2002 audits the following is a summary of finding and penalties Imposed according to the Regulations for Reporting and Auditing Lands "Then Being Irrrigated":

Gila Valley Irrigation District

CEASE & DESIST RECEIVED & SIGNED

1. Bryce Children's Trust , Mr. Scott Bryce

Parcel No.	Location	TBI Acres Reported	Actual Acres Planted	Acres in Violation
109-78-07A	T6S, R24E, Sec 25, N 1/2	74.60	67.60	7.00

Payback and penalties for this violation are as follows:
Union Canal Duty for 2002 = 2.00 ac-ft/ac.
Payback: Duty x Acres in Violation = 2.00 x 7.00 = 14.00 ac-ft.
Penalty: 50% of Payback = 7.00 ac-ft.
Total Payback: 14.00 + 7.00 = 21.00 ac-ft.

2002

COURT ORDERS

Date of Order	Order
01/07/2002	Order Granting Motion To Withdraw As Council
01/18/2002	Order Setting Date for Objections to Water Commissioner's 4th Quarter 2001 Attorney Fees
02/11/2002	Order Granting Motion to Extend Time For Service, Motion to Modify Complaint Answer Date and Motion For Expedited Ruling
02/20/2002	Order Denying Moving Plaintiffs Motion For an Order Compelling Discovery, Denying Moving Defendants Motion to Strike the Moving Plaintiffs Motion For An Order Compelling Discovery, Granting All Plaintiff's Multiple Motions For Voluntary Dismissal Without Prejudice of Specifically Named Defendants.
03/04/2002	Order Denying SCIDD's Motion For Compressed Briefing Schedule on Its Motion For Summary Judgement, Striking Plaintiff SCIDD's Motion For Summary Judgement As Untimely, Denies Defendant J. J. Lovett's Motion To Vacate Trail and Grants Florence Copper Inc.'s Motion To Intervene As A Defendant Pursuant To Fed. R. Civ. Pro 24(a)
03/08/2002	Order Granting the Stipulated Motion to Extend Time for the March 25, 2002 Trail and Allots a Total of Four and One-half Days for Trail.
03/11/2002	Order Approving Water Commissioner's 4th Quarter 2001 Attorney Fees.
03/26/2002	Order Reference Water Available as a Basis of Apportionment
04/16/2002	Order Setting Date for Objections to Water Commissioner's 1st Quarter 2002 Attorney Fees
05/06/2002	Order Dismissing McDonald's 57-2 Corporation Without Prejudice
06/18/2002	Order Approving Water Commissioner's 1st Quarter 2002 Attorney Fees.
08/08/2002	Order Setting Date for Objections to Water Commissioner's 2nd Quarter 2002 Attorney Fees
08/08/2002	Order Setting Date for Filing Objections to the Gila Water Commissioner's 2003 Budget.

08/23/2002	Order denying The Tribe, GRIC, SCIDD's Motion for Reconsideration, Advising the Commissioner He Does not Have The Authority to Authorize Out of Priority Diversions, Authorizing the Commissioner's Request to Suspend the Water Quality Injunction for the Remainder of the Year.
10/01/2002	Order Approving Water Commissioner's 2nd Quarter 2002 Attorney Fees.
11/12/2002	Order Setting Date for Objections to Water Commissioner's 3rd Quarter 2002 Attorney Fees
11/12/2002	Order Granting Substitution of Council from Anthony Fines, Fines & Oden P.L.C. to Anthony Fines, Snell & Wilmer L.L.P.,L.
11/29/2002	Order Setting Date for Filing Objections to the Gila Water Commissioner's Amended 2003 Budget.
12/20/2002	Order Approving Fees of Special Council Fees for Retirement Matters and Partial Approval of 3rd Quarter fees for the General Council to the Water Commissioner

2002

FINANCIAL STATEMENT
WATER COMMISSIONER'S ACCOUNT

RECEIPTS

Plaintiffs			
San Carlos Irrigation Project	$342,180.97		
SCIP 02 assessment pre-paid (interest)	1,379.77		
San Carlos Agency	3,383.00		
Gila Crossing	149,682.32		
Gila Crossing 02 assessment (interest)	1,867.97		
		$498,494.03	
Defendants			
Gila Valley Irrigation District	109,989.45		
Franklin Irrigation District	16,023.07		
Sunset Ditch Company	8,233.88		
Model Canal Company	1,441.83		
ASARCO	6,615.23		
York Valley	112.45		
		142,415.91	
Miscellaneous Receipts		1,457.56	
Dental Insurance Reimbursement		615.00	
Supplemental reports		225.00	
Interest Income		6,773.44	
Total Receipts			$649,980.94
Balance Forward 2001			471,878.92
			$1,121,859.86

DISBURSEMENTS

Personnel			
Don L. Weesner	$77,863.92		
Jon W. Allred	49,138.08		
James W. Pavlacky	38,394.00		
Waylon D. West	38,005.92		
Maria Moore	12,852.00		
F. I. C. A.	13,407.74		
Medicare	3,135.68		
Federal Unemployment Tax	2,170.00		
		$234,967.34	
Employee Benefit Plan			
Retirement	12,204.24		
Medical Insurance	26,975.39		
		39,179.63	
George E. Greiner (Consulting Fee)		6,000.00	
Travel plus Allowance			
Don L. Weesner	4,381.39		
Jon W. Allred	3,381.18		
James W. Pavlacky	3,295.41		
Waylon D. West	2,059.60		
		13,117.58	
2001 Attorney Fees and costs			
Brent F. Moody	14,001.67		
		14,001.67	
2002 Attorney Fees and costs			
Brent F. Moody	73,166.67		
Charles W. Whetstine	1,366.59		
		74,533.26	
2001 Carry-over Expenses		716.67	
Geronimo Station expenses		7,009.00	
Joint Funding (Stream flow records)		74,900.00	
Capital Purchases			
Telemetering	1,457.48		
Sensor	1,606.00		
GSI Monitoring	20,039.00		
Gateway and Dell Computer	3,823.52		
		26,925.00	
Other expenses			
Annual Audit	1,100.00		
Communications	10,579.94		
Computer	989.41		
Insurance & Bonds	4,202.00		
Office Expenses	6,647.67		
Rent and Utilities	7,942.61		
Tower Rental	900.00		
Workmen's Compensation	2,024.90		
Miscellaneous	756.77		
Water Quality Expendures	250.44		
Contingency Expenses	4,259.42		
Correction 12/31/02	0.05		
		39,653.21	
Total Disbursements			$531,004.36
Balance on hand 1/1/2003			590,855.50
			$1,121,859.86

c:\lotus\wk\123\yearly\2002\plate1.123

Plate 1

Colby & Company
CERTIFIED PUBLIC ACCOUNTANTS
David M. Colby, C.P.A.
Scott T. Powell, C.P.A.
1535 W. Harvard Ave., Ste. 101
Gilbert, Arizona 85233
TEL (480) 635-3200
FAX (480) 820-9959

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, 2002, 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 auditing standards generally accepted in the United States of America. 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 of accounting, 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 assets, liabilities, and equity of the Gila Water Commissioner as of December 31, 2002, and its revenue, expenses and changes in equity for the year then ended on the basis of accounting described in Note 1.

Colby & Company

February 11, 2003

2002
SUMMARY OF AUDITS

FRANKLIN IRRIGATION DISTRICT

PARCEL/OWNER NO.	TWP.	RNG.	SEC.	1/4-1/4	DECREED ACRES	TBI ACRES	RESULTS OF AUDIT	RESULTS OF INFORMAL RESOLUTION	PAYBACK & PENALTY
400-63-4, 9, 18 & 19	8S	31E	13	E 1/2	65.91	51.92	51.92 ac. Planted, No Violation	NA	NA
500-33-001 & 002B	8S	32E	20	W1/2 - W1/2	0.00	0.00	0 ac. Planted, No Violation	NA	NA
500-32-1, 2B, 4 & 9	8S	32E	20	Section	185.80	170.40	170.40 ac. Planted, No Violation	NA	NA
500-40-004A	8S	32E	27	S1/2-SW1/4	37.60	37.60	37.60 ac. Planted, No Violation	NA	NA
500-43-002 & 44-001	8S	32E	28	SW 1/4	68.40	68.40	68.40 ac. Planted, No Violation	NA	NA
500-50-6, 9, 10, 13 & 15	8S	32E	29	E 1/2	32.50	0.00	0 ac. Planted, No Violation	NA	NA
12259	18S	21W	31	SE1/4-SE1/4	44.00	44.00	44.00 ac. Planted, No Violation	NA	NA
NA	18S	21W	32	Section	92.00	92.00	92.00 ac. Planted, No Violation	NA	NA
12311	18S	21W	33	W1/2-W1/2	35.30	35.30	35.30 ac. Planted, No Violation	NA	NA
NA	18S	21W	34	SW1/4-SW1/4	16.40	14.00	14.00 ac. Planted, No Violation	NA	NA
NA	19S	21W	6	NE1/4-NE1/4	28.00	28.00	28.00 ac. Planted, No Violation	NA	NA

DECREED ACRES AUDITED:	605.91
TBI ACRES REPORTED:	5786.83
PERCENT AUDITED FOR 2002:	10.5%

TOTAL PAYBACK & PENALTIES:	0.00 Ac-Ft

NOTE: SEE PAGES 11-1 to 11-4 FOR WRITTEN SUMMATION OF ACTION TAKEN BY THE GILA WATER COMMISSIONER AND PENALTIES CONSENTED TO BY LAND OWNERS IN VIOLATION OF THE REGULATIONS FOR REPORTING LANDS THEN BEING IRRIGATED (TBI).

2002
SUMMARY OF AUDITS

GILA VALLEY IRRIGATION DISTRICT

PARCEL/OWNER NO.	TWP.	RNG.	SEC.	1/4-1/4	DECREED ACRES	TBI ACRES	RESULTS OF AUDIT	RESULTS OF INFORMAL RESOLUTION	PAYBACK & PENALTY
108-25-008 & 003A	4S	23E	35	E 1/2	123.10	46.10	46.10 ac. Planted, No Violation	NA	NA
109-12-004	5S	23E	2	NE1/4 - NW1/4	10.00	4.90	4.90 ac. Planted, No Violation	NA	NA
109-12-008	5S	23E	2	SE 1/4	112.00	46.90	46.90 ac. Planted, No Violation	NA	NA
109-21-001 to 011	5S	23E	13	Section	254.40	185.40	185.40 ac. Planted, No Violation	NA	NA
109-34-006 & 012	5S	24E	20	S 1/2	142.10	135.10	135.10 ac. Planted, No Violation	NA	NA
109-37-040	5S	24E	28	S 1/2	61.90	61.90	61.90 ac. Planted, No Violation	NA	NA
109-77-06, 08 & 14	6S	24E	24	SW 1/4	57.80	57.80	57.80 ac. Planted, No Violation	NA	NA
109-74-004C & 020B	6S	24E	24	S1/2 - S1/2	73.80	0.00	0.00 ac. Planted, No Violation	NA	NA
109-76-45, 05 & 06	6S	24E	24	S1/2 - N1/2	90.80	75.27	75.27 ac. Planted, No Violation	NA	NA
109-78-007A	6S	24E	25	N 1/2	86.60	74.60	67.60 ac. Planted, 7.0 ac.Violation	Owner Signed Cease & Desist Order	21.00 Ac-Ft
105-09-011	6S	25E	17	N 1/2	256.00	240.80	240.80 ac. Planted, No Violation	NA	NA
105-29-002 & 004	6S	25E	23	SW 1/4	20.74	7.59	7.59 ac. Planted, No Violation	NA	NA
105-32-003	6S	25E	27	W 1/2	200.30	200.30	200.30 ac. Planted, No Violation	NA	NA
105-36-073	6S	25E	30	S1/2 - NW1/4	45.70	13.00	13.00 ac. Planted, No Violation	NA	NA
105-37-018D	6S	25E	30	E1/2 - E1/2	13.60	13.60	13.60 ac. Planted, No Violation	NA	NA
105-36-009A & 072	6S	25E	30	SE1/4 - SW1/4	27.80	27.80	27.80 ac. Planted, No Violation	NA	NA
105-48-008 & 009	6S	25E	34	NE 1/4	95.80	95.80	95.80 ac. Planted, No Violation	NA	NA
102-14-003	7S	26E	7	NE 1/4	60.40	46.80	46.80 ac. Planted, No Violation	NA	NA
102-36-025F	7S	26E	15	SW 1/4	34.50	23.00	23.0 ac. Planted, No Violation	NA	NA
102-43-002	7S	26E	16	SE 1/4	64.80	62.50	62.50 ac. Planted, No Violation	NA	NA
103-37-002 & 040	7S	26E	16	E 1/2	88.70	79.20	79.20 ac. Planted, No Violation	NA	NA
103-20-007 & 009	7S	26E	25	N 1/2	75.20	75.20	75.20 ac. Planted, No Violation	NA	NA
107-33-015 & 017	7S	27E	3	SE1/4 - NE1/4	27.50	23.70	23.70 ac. Planted, No Violation	NA	NA
107-37-002	7S	27E	8	S 1/2	70.90	25.30	25.30 ac. Planted, No Violation	NA	NA
107-47-010 & 005A	7S	27E	17	SW1/4 - SW1/4	147.50	133.90	133.90 ac. Planted, No Violation	NA	NA
107-47-003	7S	27E	17	Center	192.30	185.80	185.80 ac. Planted, No Violation		
107-30-050	7S	27E	17	SW1/4 - SW1/4	40.00	39.80	39.80 ac. Planted, No Violation	NA	NA
								TOTAL PAYBACK & PENALTIES:	21.00 Ac-Ft

DECREED ACRES AUDITED:	2474.24
TBI ACRES REPORTED:	27,793.62
PERCENT AUDITED IN 2002:	8.9%

NOTE: SEE PAGES 11-1 to 11-4 FOR WRITTEN SUMMATION OF ACTION TAKEN BY THE GILA WATER COMMISSIONER AND PENALTIES CONSENTED TO BY LAND OWNERS IN VIOLATION OF THE REGULATIONS FOR REPORTING LANDS THEN BEING IRRIGATED (TBI).

2002
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	0.00	0 ac. Planted, No Violation	NA	NA
4S	14E	36	47.80	0.00	0 ac. Planted, No Violation	NA	NA

DECREED ACRES AUDITED:	214.87
TBI ACRES REPORTED:	0.00
PERCENT AUDITED IN 2002:	100.0%

NOTE: SEE PAGES 11-1 to 11-4 FOR WRITTEN SUMMATION OF ACTION TAKEN BY THE GILA WATER COMMISSIONER AND PENALTIES CONSENTED TO BY LAND OWNERS IN VIOLATION OF THE REGULATIONS FOR REPORTING LANDS THEN BEING IRRIGATED (TBI).

2002
SUMMARY OF AUDITS

SAN CARLOS APACHE TRIBE

LOCATION	DECREED ACRES	TBI ACRES	RESULTS OF AUDIT	RESULTS OF INFORMAL RESOLUTION	PAYBACK & PENALTY
BLACK POINT	73.40	73.40	73.40 ac. Planted, No Violation	NA	NA
NAVAJO POINT	110.80	110.80	110.80 ac. Planted, No Violation	NA	NA
ANDERSON FLAT	85.80	85.80	85.80 ac. Planted, No Violation	NA	NA
DECREED ACRES AUDITED:	270.00			TOTAL PAYBACK & PENALTIES:	0.00 Ac-Ft
TBI ACRES REPORTED:	270.00				
PERCENT AUDITED IN 2002:	100.0%				

NOTE: SEE PAGES 11-1 to 11-4 FOR WRITTEN SUMMATION OF ACTION TAKEN BY THE GILA WATER COMMISSIONER AND PENALTIES CONSENTED TO BY LAND OWNERS IN VIOLATION OF THE REGULATIONS FOR REPORTING LANDS THEN BEING IRRIGATED (TBI).

2002
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
5712-1	5S	7E	12	N 1/2	128.02	115.00	115.00 ac. Planted, No Violation	NA	NA
589-1	5S	8E	9	N 1/2	395.90	130.00	130.00 ac. Planted, No Violation	NA	NA
6510-43	6S	5E	10	S 1/2	100.04	100.00	100.00 ac. Planted, No Violation	NA	NA
6513-1	6S	5E	13	NE 1/4	93.71	0.00	0.00 ac. Planted, No Violation	NA	NA
6515-11	6S	5E	15	N1/2-NE1/4	79.96	79.00	79.00 ac. Planted, No Violation	NA	NA
6510-2	6S	5E	15	NW 1/4	200.00	110.00	110.00 ac. Planted, No Violation	NA	NA
6510-4	6S	5E	15	SE 1/4	119.65	110.00	110.00 ac. Planted, No Violation	NA	NA
6522-4	6S	5E	22	SE 1/4	146.85	128.00	128.00 ac. Planted, No Violation	NA	NA
6619-2	6S	6E	19	NW 1/4	155.00	41.60	41.60 ac. Planted, No Violation	NA	NA
6625-4	6S	6E	25	S 1/2	320.00	116.80	116.80 ac. Planted, No Violation	NA	NA
6627-3	6S	6E	27	S 1/2	220.00	197.40	197.40 ac. Planted, No Violation	NA	NA
6634-30	6S	6E	34	NE1/4-NW1/4	31.70	20.00	20.00 ac. Planted, No Violation	NA	NA
6634-33	6S	6E	34	N 1/2	102.25	85.50	85.50 ac. Planted, No Violation	NA	NA
6634-41	6S	6E	34	E1/2 - SE1/4	65.87	7.00	7.00 ac. Planted, No Violation	NA	NA
6636-2	6S	6E	36	NW 1/4	160.00	124.00	124.00 ac. Planted, No Violation	NA	NA
6713-4	6S	7E	13	SE 1/4	160.00	102.00	102.00 ac. Planted, No Violation	NA	NA
6720-44	6S	7E	20	SE1/4-SE1/4	40.00	35.00	35.00 ac. Planted, No Violation	NA	NA
6730-1	6S	7E	30	NE1/4-NE1/4	160.00	140.00	140.00 ac. Planted, No Violation	NA	NA
761-1	7S	6E	1	E 1/2 - E 1/2	134.52	0.00	0.00 ac. Planted, No Violation	NA	NA
761-123	7S	6E	1	NW1/4-NE1/4	22.58	0.00	0.00 ac. Planted, No Violation	NA	NA
761-13	7S	6E	1	W 1/2 - E 1/2	120.00	80.00	80.00 ac. Planted, No Violation	NA	NA
761-21	7S	6E	1	NW 1/4	119.71	82.00	82.00 ac. Planted, No Violation	NA	NA
761-24	7S	6E	1	E 1/2 - W 1/2	86.70	70.00	70.00 ac. Planted, No Violation	NA	NA
761-32	7S	6E	1	SW 1/4	52.65	47.00	47.00 ac. Planted, No Violation	NA	NA
776-2	7S	7E	6	NW1/4	153.45	60.00	60.00 ac. Planted, No Violation	NA	NA

DECREED ACRES AUDITED:	3,368.56
TBI ACRES REPORTED:	26,350.72
PERCENT AUDITED FOR 2002:	12.8%

TOTAL PAYBACK & PENALTIES:	0.00

NOTE: SEE PAGES 11-1 to 11-4 FOR WRITTEN SUMMATION OF ACTION TAKEN BY THE GILA WATER COMMISSIONER AND PENALTIES CONSENTED TO BY LAND OWNERS IN VIOLATION OF THE REGULATIONS FOR REPORTING LANDS THEN BEING IRRIGATED (TBI).

2002
SUMMARY OF AUDITS

GILA RIVER INDIAN COMMUNITY

TOWNSHIP	RANGE	SECTION	DECREED ACRES	TBI ACRES	RESULTS OF AUDIT	RESULTS OF INFORMAL RESOLUTION	PAYBACK & PENALTY
3S	5E	4	602.76	301.65	301.65 ac. Planted, No Violation	NA	NA
3S	5E	5	553.53	287.10	287.10 ac. Planted, No Violation	NA	NA
3S	5E	6	338.42	163.26	163.26 ac. Planted, No Violation	NA	NA
4S	5E	3	238.45	50.51	50.51 ac. Planted, No Violation	NA	NA
4S	5E	10	392.00	380.63	380.63 ac. Planted, No Violation	NA	NA
4S	5E	15	586.00	546.69	546.69 ac. Planted, No Violation	NA	NA
4S	5E	16	576.00	552.71	552.71 ac. Planted, No Violation	NA	NA
4S	6E	14	306.36	166.10	166.10 ac. Planted, No Violation	NA	NA
4S	6E	15	300.00	112.59	112.59 Acres Planted, No Violation	NA	NA

DECREED ACRES AUDITED:	3,893.52
TBI ACRES REPORTED:	17,518.74
PERCENT AUDITED IN 2002:	22.2%

TOTAL PAYBACK & PENALTIES:	0.00 Ac-Ft

CALENDAR YEAR 2002
GILA RIVER DECREED ACREAGES AND DIVERSIONS

DUNCAN VALLEY CANALS	Acreages	T B I Acres	Acre-feet	Duty T B I a-f/a
Sunset	2,759.90	2,429.81	6,487	2.67
New Model	2,717.55	2,179.34	4,676	2.15
Valley	1,387.20	1,177.68	2,911	2.47
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	5,786.83	14,074	2.43

Water issued for 5,786.83 T.B.I. acres on 12/01/02. Monthly modification of T.B.I. Acres are shown on diversions plates.

SAFFORD VALLEY DIVERSIONS				
Consolidated Brown	1,326.90	1,107.43	2,916	2.63
Fournesss	210.70	189.60	215	1.13
San Jose	4,150.03	3,691.78	10,766	2.92
Montezuma	4,835.96	3,886.21	9,883	2.54
Union	7,371.96	5,995.20	12,015	2.00
Graham	4,217.68	3,794.12	4,494	1.18
Smithville	2,549.33	2,298.34	5,622	2.45
Dodge-Nevada	2,516.54	2,354.74	4,032	1.71
Curtis	1,971.70	1,597.25	4,920	3.08
Fort Thomas	3,155.70	2,878.95	5,788	2.01
Colvin-Jones	205.90	0	0	0.00
Totals	32,512.40	27,793.62	60,651	2.18

Water issued for 27,793.62 T.B.I. acres on 12/01/02. Monthly modification of T.B.I. Acres are shown on diversions plates.

SAN CARLOS APACHE RESERVATION				
Black Point	73.40	73.40	90	1.23
Bylas (Navajo Point)	152.20	110.80	392	3.54
Anderson Flat	85.80	85.80	277	3.23
Non-designated lands	688.60			
Totals	1,000.00	270.00	759	2.81

Water issued for 263.10 T.B.I. acres on 12/01/02. Monthly modification of T.B.I. Acres are shown on diversions plates.

WINKELMAN VALLEY				
Industrial/Municipal (*ASARCO*) [1]	793.00	793.00	13,020	
Domestic/Municipal (*Kearny, Arizona*)	101.73	101.73	433	4.26
Farmlands	244.16	0	0	
J J Anderson	196.27	0	0	
Totals	1,335.16	894.73	13,453	

Water issued for 894.73 T. B. I. Acres on 12/01/02. Monthly modification of T.B.I. Acres are shown on diversions plates.

UNITED STATES OF AMERICA	Acreages	T B I Acres		Acre-feet	Decreed Duty a-f/a	TBI Duty a-f/a
Indian lands (Alloted/Tribal)	50,000	17,518.74	Nat. flow	10,152	0.20	0.58
Federal Agencies	546	0	Stored	7,804	0.15	0.45
	50,546	17,518.74		17,956	0.36	1.02
White Lands						
San Carlos Irrigation & Drainage Dist	50,000	25,824.52	Nat. Flow	6,600	0.13	0.26
			Stored	35,907	0.72	1.39
	50,000	25,824.52		42,507	0.85	1.65
Natural Flow Lands	1,544.5	400.00		245	0.16	0.61
	51,544.5	26,224.52		42,752	0.83	1.63
Totals	102,090.5	43,743.26		60,708	0.59	1.39
	102,090.5	43,743.26	Nat. Flow	16,997	0.17	0.39
	100,546	43,343.26	Stored	43,711	0.43	1.01

Water issued for 43,348.26 T.B.I. acres on 12/01/02. Monthly modification of T.B.I. Acres are shown on diversions plates.

Diversions from Picacho Reservoir are reflected above.
[1] Entitled to annual diversion of 16,221 acre-feet. (Article IX, et al 59)

c:\lotus\wk\123\yearly\2002\plate3.123

1936-2002

GILA 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	SCAR Divs.	Gila Calva	San Carlos Peridot	Maximum Stored Water	Gila Below Coolidge Dam	Gila Winke-lman	ASARCO Divs.	J. J. And. Divs.	Town of Kearny Divs.	Gila Kelvin	A-H Divs.	A-H Spilled Sluiced	A-H Total	Loss Kelvin to A-H	Sacaton Divs.
1936	90	39	76	98	*217	14	132	51		150	45	193	237	#				306	244	#	#	#	4.6
1937	206	40	180	181	*418	3	161	60		321	46	269	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	146	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	295	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	76	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	269	255	569	15	168	-4		411	22	260	277	275				317	260	24	284	33	0.1
1950	49	13	40	34	87	6	59	5		30	6	94	123	123				156	116	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	184	228	237				270	226	18	244	26	0.4
1953	46	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	86	22		132	27	109	94	107				228	113	118	231	+5	0.2
1956	24	8	18	26	49	1	43	0		7	12	78	79	79				89	73	2	76	13	0.0
1957	121	11	94	106	225	20	70	-37		138	11	82	74	81				95	78	4	82	13	0.1
1958	205	19	184	280	473	17	147	-42		302	52	228	243	252				315	264	25	289	26	0.0
1959	74	11	86	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		163	33	223	252	259				290	241	26	267	23	0.0
1961	73	8	56	98	159	20	36	-34		110	21	70	41	60				88	61	8	69	19	0.0
1962	211	21	173	206	410	4	135	-37		242	22	169	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	69	12	54	89	142	10	70	-4		78	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	191	205	433	4	133	66		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	62	15	50	65	122	3	89	20		56	15	487	315	312				341	306	2	308	33	0.0
1970	53	15	44	57	110	3	96	13		30	14	199	222	231				281	224	9	234	28	0.0
1971	89	5	74	97	181	10	39	-21		131	35	120	38	53				97	70	3	73	24	0.0
1972	255	12	218	254	506	14	67	8		462'	43	379	172	180				219	176	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	361	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	88	18	64	67	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		63	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	293	337	750	2	106	19		665	82	1070	407	503				641	422	77*	498*	143	0.0
1980	135	23	116	211	445	1	122	10		334	129	1090	526	□				670	477	134¥	611¥	59	0.0
1981	62	18	65	58	150	8	110	16		63	14	666	471					523	456	15	471	52	0.0
1982	131	24	108	104	270	□	118	^		158	59	278	280					316	289	12	302	15	0.0
1983	374	22	353	601	1149		127	^		1164	154	968	459					748	273	546	819	+71	0.0
1984	198	24	192	224	460		135	^		416	77	921	397					562	398	164	562	+0.3	0.0
1985	370	21	334	294	740		134	^		728	51	975	779	805				879	458	382	840	39	0.0
1986	186	24	155	136	324		149	^		288	62	905	395	422				484	412	30	442	22	0.0
1987	121	26	113	174	334		138	^		263	32	792	439	446				465	427	1	428	37	0.0
1988	257	23	220	190	445		138	^		391	30	567	431	440				484	420	8	429	35	0.0
1989	68	18	¿	62	120		94	^		43	14	458	395	384				423	379	3	383	40	0.0
1990	78	10		82	170		69	^		58	58	81	44	52				95	56	18	74	22	0.0
1991	340	20		291	651		126	^		749	87	511	278	304				383	297	48	345	19	0.0
1992	377	20		330	801		124	^		1027	88	740	550	619				646	401	205	606	40	0.0
1993	518	22		572	1558		119	^		1695	296	1060	1662	2203				2374	391	1925	2316	58	0.0
1994	230	23		157	345		108	^		357	28	541	377	£				489	401	12	413	76	0.0
1995	262	22		206	506		109	^	0.1	566	106	879	427		13	0.5	0.4	620	423	120	543	62	0.0
1996	117	16		77	194		95	^	0.2	109	14	522	439		14	0.5	0.4	465	428	5	431	33	0.0
1997	210	22	192	103	316		213	^	0.2	210	21	211	268		12	0.5	0.4	286	258	1	256	28	0.0
1998	184	24	187	153	340		126	^	0.1	276	38	271	297		11	0.3	0.4	345	312	9	321	24	0.0
1999	91	23	90	105	205		105	^	0.6	128	12		106		12	0.5	0.4	125	107	1	108	17	0.0
2000	112	9	103	165	347		49	^	0.9	274	17	239	75		11	0.3	0.4	111	83	26	109	2	0.0
2001	94	22	69	95	182		114	^	0.8	100	8	269	249		13	0.0	0.4	256	241	1	243	13	0.0
2002	60	14	47	51	101		61	^	0.8	42	4	72	53		13	0.0	0.4	51	43	0.3	43	8	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

c:\lotus\wk\123\yearly\2002\plate4.123

Plate 4

SAN CARLOS APACHE TRIBE FARM REPORT
2002

This annual farm report by the GWC is pursuant to the Court's Water Quality Injunction filed on June 3, 1996
All data reported is supplied by the San Carlos Apache Tribe unless shown otherwise

BLACK POINT

						SOURCE OF WATER APPLIED								DATA BY GWC	
MONTH	FIELD NO.	CROP	DATE PLANTED	ACRES TBI	DATES IRRIGATED (from - to)	GILA RIVER DIVERSIONS (ac-ft)	WATER QUALITY (uS/cm)	TRIBAL WELLS (ac-ft)	WATER QUALITY (uS/cm)	COMBINED RIVER & WELLS (ac-ft)	USE OF CROP	CROP YIELD (tons/acre)	COMMENTS OR UNUSUAL PROBLEMS	DATE	Water Quality uS/cm
JAN	1021W	NONE		0.00		0.00		0.00		0.00			Ripped, Disked, Leveled & Burned Weeds		
	1021E	NONE		0.00		0.00		0.00		0.00			Ripped, Disked, Leveled & Burned Weeds		
	1022W	NONE		0.00		0.00		0.00		0.00			Ripped, Disked, Leveled & Burned Weeds		
	1022E	NONE		0.00		0.00		0.00		0.00			Ripped, Disked, Leveled & Burned Weeds		
FEB	1021W	NONE		0.00		0.00		0.00		0.00			Ripped, Disked, Leveled & Burned Weeds		
	1021E	NONE		0.00		0.00		0.00		0.00			Ripped, Disked, Leveled & Burned Weeds		
	1022W	NONE		0.00		0.00		0.00		0.00			Ripped, Disked, Leveled & Burned Weeds		
	1022E	NONE		0.00		0.00		0.00		0.00			Ripped, Disked, Leveled & Burned Weeds		
MAR	1021W	NONE		12.20		0.00		0.00		0.00			Alfalfa to be Planted in April		
	1021E	NONE		23.90		0.00		0.00		0.00			Alfalfa to be Planted in April		
	1022W	NONE		17.80		0.00		0.00		0.00			Oats to be Planted in Fall		
	1022E	NONE		12.60		0.00		0.00		0.00			Oats to be Planted in Fall		
APR	1021W	ALF	Apr	12.20		0.00		0.00		0.00			Planted Alf, No Irrig due to pump problems		
	1021E	ALF	Apr	23.90	APR 24-29	0.00		0.55		0.55			Planted Alf, Hay died due to lack of water		
	1022W	NONE		17.80		0.00		0.00		0.00			Oats to be Planted in Fall		
	1022E	NONE		12.60		0.00		0.00		0.00			Oats to be Planted in Fall		
MAY	1021W	ALF	Apr	12.20		0.00		0.00		0.00			Mobile Pump in for Repairs		
	1021E	ALF	Apr	23.90		0.00		0.00		0.00			Mobile Pump in for Repairs		
	1022W	NONE		17.80		0.00		0.00		0.00			Oats to be Planted in Fall		
	1022E	NONE		12.60		0.00		0.00		0.00			Oats to be Planted in Fall		
JUNE	1021W	ALF	Apr	12.20		0.00		0.00		0.00			Not Enough Water in River to Irrigate		
	1021E	ALF	Apr	23.90		0.00		0.00		0.00			Not Enough Water in River to Irrigate		
	1022W	NONE		17.80		0.00		0.00		0.00			Oats to be Planted in Fall		
	1022E	NONE		12.60		0.00		0.00		0.00			Oats to be Planted in Fall		
JULY	1021W	ALF	Apr	13.10		0.00		0.00		0.00			No Irrigation During July		
	1021E	ALF	Apr	25.10		0.00		0.00		0.00			No Irrigation During July		
	1022W	NONE		21.10		0.00		0.00		0.00			Oats to be Planted in Fall		
	1022E	NONE		14.10		0.00		0.00		0.00			Oats to be Planted in Fall		
AUG	1021W	ALF	Apr	13.10		0.00		0.00		0.00			No Irrigation During Aug		
	1021E	ALF	Apr	25.10		0.00		0.00		0.00			No Irrigation During Aug		
	1022W	NONE		21.10		0.00		0.00		0.00			Oats to be Planted in Fall		
	1022E	NONE		14.10		0.00		0.00		0.00			Oats to be Planted in Fall		
SEPT	1021W	ALF	Apr	13.10		0.00		0.00		0.00			Field Preparations Planned for Oct		
	1021E	ALF	Apr	25.10		0.00		0.00		0.00			Field Preparations Planned for Oct		
	1022W	NONE		21.10		0.00		0.00		0.00			Field Preparations Planned for Oct		
	1022E	NONE		14.10		0.00		0.00		0.00			Field Preparations Planned for Oct		
OCT	1021W	ALF	Apr	13.10		0.00		0.00		0.00			Made Field Preparations		
	1021E	ALF	Apr	25.10		0.00		0.00		0.00			Made Field Preparations		
	1022W	NONE		21.10		0.00		0.00		0.00			Made Field Preparations		
	1022E	NONE		14.10		0.00		0.00		0.00			Made Field Preparations		
NOV	1021E&W	ALF	Nov	38.20	NOV 5-18	39.40	3600	0.00		39.40			Planted Alfalfa		
	1022E&W	OATS	Nov	35.20	NOV 18-30	36.49	3150	0.00		36.49			Planted Oats	Nov 19	5130
DEC	1021E&W	ALF	Nov	38.20		0.00		0.00		0.00					
	1022E&W	OATS	Nov	35.20	DEC 01-03	7.40		0.00		7.40			Oats Coming up		
TOTALS FOR BLACK POINT:				73.40		83.29		0.55		83.84		0.00			
DUTY FOR BLACK POINT (AC-FT/AC)				1.13											

Plate 5 - 1

c:\mydocs\yearly_rpt\2002\plate5.xls

SAN CARLOS APACHE TRIBE FARM REPORT
2002

This annual farm report by the GWC is pursuant to the Court's Water Quality Injunction filed on June 3, 1996
All data reported is supplied by the San Carlos Apache Tribe unless shown otherwise

NAVAJO POINT

						SOURCE OF WATER APPLIED								DATA BY GWC	
MONTH	FIELD NO.	CROP	DATE PLANTED	ACRES TBI	DATES IRRIGATED (from - to)	GILA RIVER DIVERSIONS (ac-ft)	WATER QUALITY (uS/cm)	TRIBAL WELLS (ac-ft)	WATER QUALITY (uS/cm)	COMBINED RIVER & WELLS (ac-ft)	USE OF CROP	CROP YIELD (tons/acre)	COMMENTS OR UNUSUAL PROBLEMS	DATE	Water Quality uS/cm
JAN	1041	NONE		0.00		0.00		0.00		0.00			Ripped, Disked & Leveled		
	1043	NONE		0.00		0.00		0.00		0.00			Ripped, Disked & Leveled		
	1044	NONE		0.00		0.00		0.00		0.00			Ripped, Disked & Leveled		
	1045 & 46	NONE		0.00		0.00		0.00		0.00			Ripped, Disked & Leveled		
FEB	1041	NONE		0.00		0.00		0.00		0.00			Ripped, Disked, Leveled & Burned Weeds		
	1043	NONE		0.00		0.00		0.00		0.00			Ripped, Disked, Leveled & Burned Weeds		
	1044	NONE		0.00		0.00		0.00		0.00			Ripped, Disked, Leveled & Burned Weeds		
	1045 & 46	NONE		0.00		0.00		0.00		0.00			Ripped, Disked, Leveled & Burned Weeds		
MAR	1041	NONE		40.20		0.00		0.00		0.00			Ripped, Disked, Leveled & Burned Weeds		
	1043	NONE		23.20		0.00		0.00		0.00			Ripped, Disked, Leveled & Burned Weeds		
	1044	NONE		12.90		0.00		0.00		0.00			Ripped, Disked, Leveled & Burned Weeds		
	1045 & 46	ALF	Mar	74.20		0.00		0.00		0.00			Planted Alfalfa		
APR	1041	NONE		40.20		0.00		0.00		0.00					
	1043	NONE		23.20		0.00		0.00		0.00					
	1044	NONE		12.90		0.00		0.00		0.00					
	1045 & 46	ALF	Mar	74.20	APR 3-30	55.53	4200	0.00		55.53			Stand of Hay Established by Apr 30		
MAY	1041	NONE		40.20		0.00		0.00		0.00					
	1043	NONE		23.20		0.00		0.00		0.00					
	1044	NONE		12.90		0.00		0.00		0.00				May 14	4380
	1045 & 46	ALF	Mar	74.20	May 1-31	51.39	4470	0.00		51.39				May 28	4510
JUNE	1041	NONE		40.20		0.00		0.00		0.00					
	1043	NONE		23.20		0.00		0.00		0.00				June 4	4460
	1044	NONE		12.90		0.00		0.00		0.00				June 11	4350
	1045 & 46	ALF	Mar	74.20	June 1-30	31.90	4310	0.00		31.90			Cut and Baled Hay on Field 1045	June 18	4490
JULY	1041	NONE		41.40		0.00		0.00		0.00					
	1043	NONE		23.60		0.00		0.00		0.00					
	1044	NONE		12.90		0.00		0.00		0.00					
	1045 & 46	ALF	Mar	74.30	July 1-31	21.22	3850	12.27	3480	33.49		1.05	Tribe Well Salt Steadily Increased		
AUG	1041	NONE		41.40		0.00		0.00		0.00					
	1043	NONE		23.60		0.00		0.00		0.00					
	1044	NONE		12.90		0.00		0.00		0.00					
	1045 & 46	ALF	Mar	74.30	Aug 1-31	63.06	2570	0.00		63.06		1.05	Cut and Baled Hay		
SEPT	1041	NONE		41.40		0.00		0.00		0.00			Field May be Removed from TBI		
	1043	NONE		23.60		0.00		0.00		0.00			Field Preparations Planned for October		
	1044	NONE		12.90		0.00		0.00		0.00			Field Preparations Planned for October		
	1045 & 46	ALF	Mar	74.30	Sept 1-30	53.96	2840	0.00		53.96				Sept 24	2900
OCT	1041	NONE		41.40		0.00		0.00		0.00					
	1043	NONE		23.60		0.00		0.00		0.00			Field Preparations Made for Planting		
	1044	NONE		12.90		0.00		0.00		0.00			Field Preparations Made for Planting		
	1045 & 46	ALF	Oct	74.30	Oct 22-28	21.61	4050	0.00		21.61		0.30	Disked, Leveled & Planted Alfalfa		
NOV	1041	NONE		0.00		0.00		0.00		0.00			Removed Field From TBI Acres		
	1043	Oats	Nov	23.60	Nov 26-30	12.84	4093	0.00		12.84			Finished Planting Oats on 1043	Nov 5	4210
	1044	NONE		12.90		0.00		0.00		0.00			Finished Planting Oats on 1044		
	1045 & 46	ALF	Oct	74.30	Nov 1-12	43.61	4587	0.00		43.61		0.52			
DEC	1041	NONE		0.00		0.00		0.00		0.00					
	1043 & 44	ALF	Nov	36.50	Dec 1-18	33.59	2829	0.00		33.59			Oats Beginning to Come up on 1043		
	1045 & 46	ALF	Oct	74.30		0.00		0.00		0.00					
TOTALS FOR NAVAJO POINT:				110.80		388.71		12.27		490.98		2.95			
DUTY FOR NAVAJO POINT (AC-FT/AC)				3.61											

Plate 5 - 2

c:\mydocs\yearly_rpt\2002\plate5.xls

SAN CARLOS APACHE TRIBE FARM REPORT
2002

This annual farm report by the GWC is pursuant to the Court's Water Quality Injunction filed on June 3, 1996
All data reported is supplied by the San Carlos Apache Tribe unless shown otherwise

ANDERSON FLAT

						SOURCE OF WATER APPLIED								DATA BY GWC	
MONTH	FIELD NO.	CROP	DATE PLANTED	ACRES TBI	DATES IRRIGATED (from - to)	GILA RIVER DIVERSIONS (ac-ft)	WATER QUALITY (uS/cm)	TRIBAL WELLS (ac-ft)	WATER QUALITY (uS/cm)	COMBINED RIVER & WELLS (ac-ft)	USE OF CROP	CROP YIELD (tons/acre)	COMMENTS OR UNUSUAL PROBLEMS	DATE	Water Quality uS/cm
JAN	1047	NONE		0.00		0.00		0.00		0.00			Ripped, Disked & Leveled		
	1048	NONE		0.00		0.00		0.00		0.00			Ripped, Disked & Leveled		
	1049	NONE		0.00		0.00		0.00		0.00			Ripped, Disked & Leveled		
	1050	NONE		0.00		0.00		0.00		0.00			Ripped, Disked & Leveled		
FEB	1047	NONE		0.00		0.00		0.00		0.00			Ripped, Disked & Leveled		
	1048	NONE		0.00		0.00		0.00		0.00			Ripped, Disked & Leveled		
	1049	NONE		0.00		0.00		0.00		0.00			Ripped, Disked & Leveled		
	1050	NONE		0.00		0.00		0.00		0.00			Ripped, Disked & Leveled		
MAR	1047 & 48	ALF	Mar	48.90	Mar 23-30	22.58	4400	0.00		22.58			Started Planting Alf 3/18/02	Mar 27	4270
	1049	NONE		24.40		0.00		0.00		0.00			Oats to be Planted in Fall		
	1050	NONE		23.30		0.00		0.00		0.00			Oats to be Planted in Fall		
APR	1047 & 48	ALF	Mar	48.90	Apr 2-9	14.43	4240	0.00		14.43			Alf Dying, Finished Planting Sudan 5/1/02		
	1049	NONE		24.40		0.00		0.00		0.00			Oats to be Planted in Fall		
	1050	NONE		23.30		0.00		0.00		0.00			Oats to be Planted in Fall		
MAY	1047 & 48	Sudan	May	48.90	May 2-31	52.39	4242	0.00		52.39			Finished Planting Sudan 5/1/02	May 1	4330
	1049	NONE		24.40		0.00		0.00		0.00			Oats to be Planted in Fall	May 28	4520
	1050	NONE		23.30		0.00		0.00		0.00			Oats to be Planted in Fall		
JUNE	1047 & 48	Sudan	May	48.90	June 1-30	38.37	4200	0.00		38.37			Raked Hay on Field 1047	June 11	4600
	1049	NONE		24.40		0.00		0.00		0.00			Oats to be Planted in Fall	June 19	4570
	1050	NONE		23.30		0.00		0.00		0.00			Oats to be Planted in Fall		
JULY	1047 & 48	Sudan	May	42.00	July 1-31	46.69	2690	0.00		46.69		1.51	Baled Hay on Field 1048	July 30	2930
	1049	NONE		22.30		0.00		0.00		0.00			Oats to be Planted in Fall		
	1050	NONE		21.50		0.00		0.00		0.00			Oats to be Planted in Fall		
AUG	1047 & 48	Sudan	May	42.00	Aug 1-30	16.19	2600	0.00		16.19		1.41	Raked Hay on Field 1047 & 1048	Aug 27	3090
	1049	NONE		22.30		0.00		0.00		0.00			Oats to be Planted in Fall		
	1050	NONE		21.50		0.00		0.00		0.00			Oats to be Planted in Fall		
SEPT	1047 & 48	Sudan	May	42.00	Sept 1-30	47.91	630	0.00		47.91			High Flow in River Gave Low Salt Rdgs	Sept 3	3210
	1049	NONE		22.30		0.00		0.00		0.00			Field Preparations Planned for Oct	Sept 17	740
	1050	NONE		21.50		0.00		0.00		0.00			Field Preparations Planned for Oct	Sept 24	2840
OCT	1047 & 48	Sudan	May	42.00		0.00		0.00		0.00		0.76	Swathed, Raked & Baled		
	1049	NONE		22.30		0.00		0.00		0.00			Made Field Preparations		
	1050	NONE		21.50		0.00		0.00		0.00			Made Field Preparations		
NOV	1047 & 48	Sudan	May	42.00		0.00		0.00		0.00			Did Not Irrigate During Nov		
	1049	Oats	Nov	22.30		0.00		0.00		0.00			Planted Oats		
	1050	Oats	Nov	21.50		0.00		0.00		0.00			Planted Oats		
DEC	1047 & 48	Sudan	May	42.00		0.00		0.00		0.00					
	1049 &50	Oats	Nov	43.80	Dec 6-28	44.08	3130	0.00		44.08			Oats Coming up on Field 1050	Dec 10	2780
TOTALS FOR ANDERSON FLAT:				85.80		282.64		0.00		282.64		3.68			
DUTY FOR ANDERSON FLAT (AC-FT/AC				3.29											

SUMMARY OF ALL SCAR LANDS	TBI = 270.00 AC	WATER USED = 767.46 AC-FT	DUTY = 2.84 AC-FT/AC

DUTY IS BASED ON TOTAL WATER USED UNCLUDING RIVER AND WELL WATER

c:\mydocs\yearly_rpt\2002\plate5.xls

2002

DUNCAN VALLEY: 8,061.35 acres

Mean daily diversions, cubic feet per second

	JAN			FEB			MAR			APR			MAY			JUN		
DAY	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport
1	23.7	23.7		6.4	6.4		32.2	12.0	20.2	12.7	12.7		27.9		27.9	7.2		7.2
2	23.9	23.9		6.4	6.4		32.2	12.0	20.2	13.0	13.0		25.1		25.1	6.2		6.2
3	23.2	23.2		6.4	6.4		32.5	16.2	16.3	12.2	12.2		27.5		27.5	5.1		5.1
4	22.5	22.5		6.4	6.4		34.2	11.6	22.6	13.5	13.5		25.4		25.4	4.0		4.0
5	20.9	20.9		6.4	6.4		32.9	11.6	21.3	14.2	14.2		25.1		25.1	2.9		2.9
6	12.0	12.0		6.4	6.4		33.7	5.6	28.1	13.1	13.1		25.5		25.5	1.4		1.4
7	6.3	6.3		8.1	8.1		34.5	5.6	28.9	11.6	11.6		28.3		28.3			
8	6.9	6.9		8.8	8.8		34.7	10.7	24.0	11.4	11.4		27.6		27.6			
9	9.8	9.8		8.8	8.8		34.5	5.6	28.9	9.7	9.7		26.3		26.3			
10	10.9	10.9		8.8	8.8		35.7	5.6	30.1	9.7	9.7		23.7		23.7			
11	12.9	12.9		8.9	8.9		35.1	5.6	29.5	9.7	9.7		21.8		21.8			
12	13.7	13.7		19.7	19.7		30.4	5.6	24.8	13.1	9.4	3.7	22.6		22.6			
13	13.5	13.5		25.4	25.4		28.9	5.6	23.3	38.0	16.3	21.7	22.2		22.2			
14	19.1	19.1		25.4	25.4		27.2		27.2	42.2	14.2	28.0	22.9		22.9			
15	22.7	22.7		25.5	25.5		25.3	5.6	19.7	41.9	12.0	29.9	22.4		22.4			
16	23.5	23.5		25.6	25.6		24.8	5.6	19.2	47.5	12.0	35.5	18.4		18.4			
17	23.8	23.8		25.6	25.6		24.8	5.6	19.2	47.9	12.0	35.9	17.1		17.1			
18	20.9	20.9		25.2	24.6	0.6	25.1	11.6	13.5	47.3		47.3	15.8		15.8			
19	22.1	22.1		26.0	19.7	6.3	25.3	10.7	14.6	43.0		43.0	16.3		16.3			
20	22.7	22.7		28.5	28.5		24.9	5.6	19.3	40.4		40.4	16.4		16.4			
21	23.0	23.0		29.5	29.0	0.5	25.2	5.6	19.6	36.5		36.5	14.6		14.6			
22	22.9	22.9		32.6	12.9	19.7	24.7	5.6	19.1	39.5		39.5	14.6		14.6			
23	21.5	21.5		35.0	24.9	10.1	24.5	5.6	18.9	36.7		36.7	12.2		12.2			
24	13.1	13.1		26.9	10.7	16.2	24.1	24.1		37.3		37.3	12.4		12.4			
25	9.9	9.9		23.3	15.9	7.4	21.9	21.9		34.0		34.0	11.3		11.3			
26	10.1	10.1		32.3	18.7	13.6	18.3	18.3		35.7		35.7	11.3		11.3			
27	10.1	10.1		32.5	24.6	7.9	16.5	16.5		36.3		36.3	10.9		10.9			
28	10.0	10.0		31.7	15.9	15.8	16.7	16.7		36.9		36.9	10.6		10.6			
29	9.7	9.7					17.0	17.0		35.3		35.3	9.6		9.6			
30	6.4	6.4					15.0	15.0		28.6		28.6	8.5		8.5			
31	6.4	6.4					13.1	13.1					7.8		7.8			
Total	498.1	498.1		552.5	454.4	98.1	823.9	315.4	508.5	848.9	206.7	642.2	580.1		580.1	26.8		26.8
Acre-feet		988			1096			1634			1683			1151			53	
Priority Diverted		988			902			626			410							
Apport Diverted					194			1009			1273			1151			53	
Appor diverted to date					194			1203			2476			3627			3680	
TBI Acreage		4786.77			5516.63			5715.43			5766.23			5766.23			5766.23	
Apportioned		3745			7447			7716			7785			7785			7785	
Duty		0.21			0.17			0.27			0.29			0.20			0.01	

	JUL			AUG			SEP			OCT			NOV			DEC			
DAY	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport	Total	Priority	Apport	Totals
1				21.9		21.9	19.4		19.4	9.7		9.7	35.9	35.9		23.3	13.0	10.3	
2				24.4		24.4	22.3		22.3	26.8	5.6	21.2	29.1	29.1		23.3	5.5	17.8	
3				19.6		19.6	21.5		21.5	31.7		31.7	24.0	24.0		23.3	13.0	10.3	
4				15.6	11.6	4.0	18.7		18.7	33.2	5.6	27.6	22.9	22.9		17.5	12.6	4.9	
5				20.3	5.6	14.7	18.3		18.3	32.6	5.6	27.0	20.8	20.8		14.7	14.2	0.5	
6				19.0	13.7	5.3	16.6		16.6	31.5	5.6	25.9	20.7	20.7		14.7	8.1	6.6	
7				7.8	7.8		17.2		17.2	20.9	12.9	8.0	23.3	23.3		14.7	8.1	6.6	
8				14.7	14.7		17.7		17.7	9.1	9.1		23.7	23.7		14.7	8.1	6.6	
9				15.3	14.2	1.1	24.8		24.8	23.5	23.5		23.1	23.1		14.5	8.1	6.4	
10				16.2	16.2		22.4		22.4	41.0	41.0		23.1	23.1		14.5	14.5		
11				16.5	14.2	2.3	23.0	23.0		40.6	40.6		22.9	22.9		14.5	9.8	4.7	
12				24.4	15.8	8.6	37.7	37.7		40.4	32.1	8.3	23.0	23.0		14.5	14.2	0.3	
13				28.7	5.6	23.1	46.1	46.1		39.8	12.1	27.7	23.4	23.4		14.5	14.2	0.3	
14				22.7		22.7	48.9	48.9		39.2	5.6	33.6	24.2	24.2		14.5	14.2	0.3	
15				14.9		14.9	51.2	50.8	0.4	39.0	11.7	27.3	24.2	24.2		23.3	23.3		
16				18.1		18.1	48.6	10.7	37.9	33.4		33.4	23.5	23.5		25.4	21.3	4.1	
17				18.9		18.9	47.5		47.5	25.4	5.6	19.8	23.8	23.8		22.2	20.5	1.7	
18				18.2		18.2	46.5	5.6	40.9	30.6		30.6	24.0	24.0		22.3	22.3		
19				18.2		18.2	44.4	10.7	33.7	36.1	19.6	16.5	23.9	23.9		22.3	22.3		
20				25.5	10.7	14.8	41.5	5.6	35.9	38.2	21.4	16.8	23.4	23.4		22.2	22.2		
21				31.1		31.1	39.1	19.2	19.9	36.9	20.2	16.7	24.1	24.1		22.3	22.3		
22				29.4		29.4	35.5	19.2	16.3	38.3	8.8	29.5	23.4	23.4		22.3	22.3		
23				31.0		31.0	26.2	26.2		37.3	13.1	24.2	23.3	23.3		12.8	12.8		
24				31.3		31.3	16.4	16.4		38.3	5.6	32.7	23.5	23.5		7.9	7.9		
25	3.4		3.4	28.4		28.4	12.2	5.6	6.6	39.2	39.2		23.7	23.7		7.9	7.9		
26	11.6		11.6	22.5		22.5	11.0		11.0	39.3	39.3		23.5	23.5		7.9	7.9		
27	6.8		6.8	19.4		19.4	6.8	5.6	1.2	39.4	39.4		23.3	23.3		7.9	7.9		
28	5.3		5.3	16.8		16.8	5.1		5.1	38.6	38.6		23.2	23.2		7.9	7.9		
29	10.4		10.4	20.9	11.6	9.3	5.5		5.5	36.5	36.5		23.4	23.4		7.9	7.9		
30	16.7		16.7	20.8	5.6	15.0	5.4		5.4	36.2	36.2		23.5	23.5		7.7	7.7		
31	17.6		17.6	16.5	16.5					35.9	35.9					7.6	7.6		
Total	71.8		71.8	648.8	163.8	485.0	797.5	331.3	466.2	1038.6	570.4	468.2	717.8	717.8		491.0	409.6	81.4	
Acre-feet		143			1287			1582			2060			1423			974		14074
Priority Diverted					325			656			1132			1423			812		7274
Apport Diverted		143			963			924			928						162		6800
Appor diverted to date		3823			4786			5710			6638			6638			6800		6800
TBI Acreage		5766.23			5766.23			5766.23			5838.83			5838.83			5786.83		5786.83
Apportioned		7785			7785			7785			9459			9459			9375		9375
Duty		0.02			0.22			0.27			0.33			0.24			0.19		2.43

c:\lotus\wk\123\yearly\2002\Duncan.123

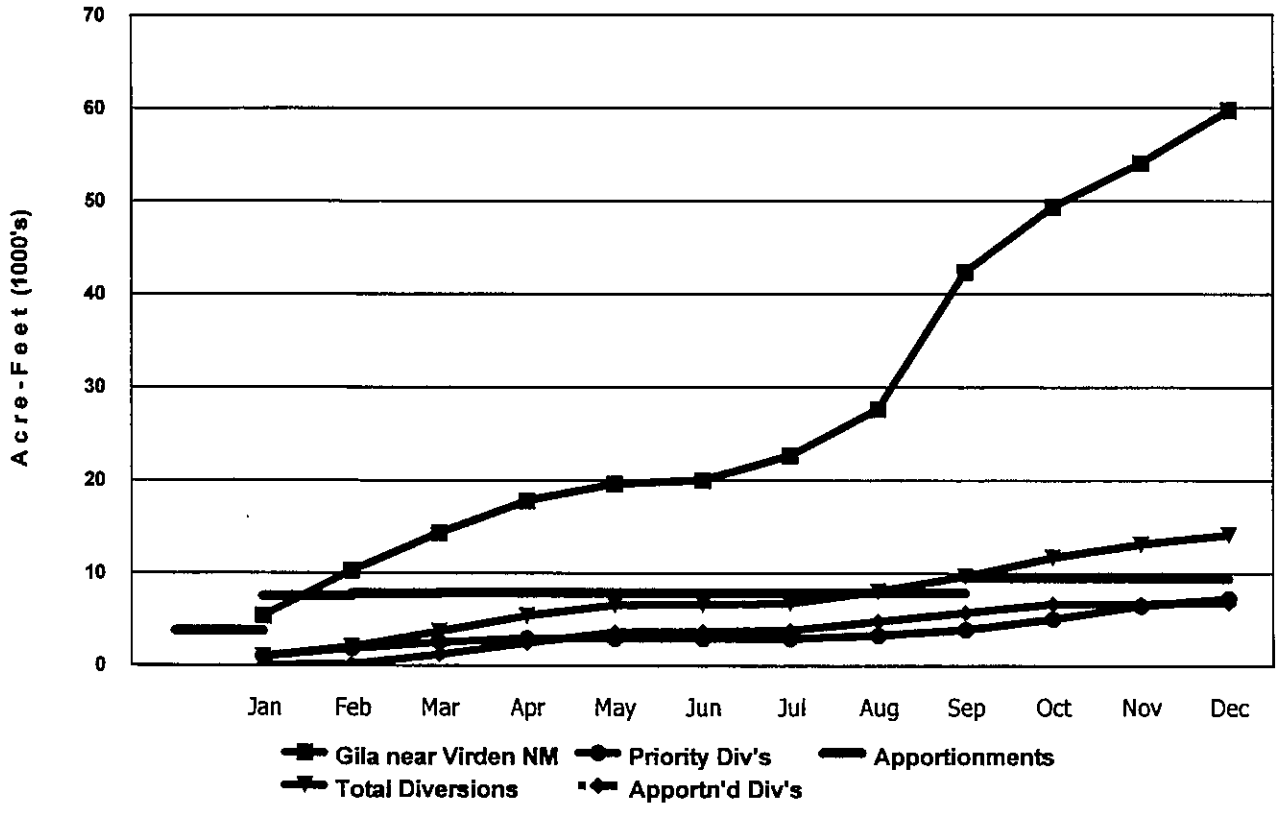
2002

MASS DIAGRAM OF DUNCAN VALLEY

DIVERSIONS, APPORTIONMENTS, & RIVER FLOWS

In Acre-feet

Month	Monthly Gila River Below Blue Creek	Accumulated Gila River Below Blue Creek	Accumulated Total Diversions	Accumulated Priority Diversions	Accumulated Apportioned Diversions	Water Apportioned
JAN	5,383	5,383	988	988		3,745
FEB	4,897	10,280	2,084	1,890	194	7,447
MAR	4,003	14,283	3,718	2,515	1,203	7,716
APR	3,437	17,720	5,401	2,925	2,476	7,795
MAY	1,845	19,565	6,552	2,925	3,627	7,795
JUN	421	19,986	6,605	2,925	3,680	7,795
JUL	2,617	22,603	6,748	2,925	3,823	7,795
AUG	5,014	27,617	8,035	3,249	4,786	7,795
SEP	14,729	42,346	9,617	3,907	5,710	7,795
OCT	7,002	49,348	11,677	5,039	6,638	9,459
NOV	4,747	54,095	13,100	6,462	6,638	9,459
DEC	5,665	59,760	14,074	7,274	6,800	9,375
	Graph :	Gila near Virden NM	Total Diversions	Priority Div's	Apportn'd Div's	Apportionments



c:\lotus\wk\123\yearly\2002/masdun02.123

2002

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	15.3	15.3					16.4	11.6	4.8	11.1	11.1		13.7		13.7	7.2		7.2
2	15.3	15.3					16.8	11.6	5.2	11.1	11.1		12.8		12.8	6.2		6.2
3	15.6	15.6					17.0	13.7	3.3	11.1	11.1		12.2		12.2	5.1		5.1
4	15.7	15.7					17.9	11.6	6.3	11.4	11.4		13.4		13.4	4.0		4.0
5	15.7	15.7					17.4	11.6	5.8	11.6	11.6		14.5		14.5	2.9		2.9
6	7.4	7.4					17.6	5.6	12.0	10.7	10.7		14.5		14.5	1.4		1.4
7							17.8	5.6	12.2	9.2	9.2		14.3		14.3			
8							17.5	10.7	6.8	9.2	9.2		14.3		14.3			
9							17.5	5.6	11.9	9.4	9.4		14.2		14.2			
10							18.7	5.6	13.1	9.4	9.4		14.0		14.0			
11							17.9	5.6	12.3	9.4	9.4		13.8		13.8			
12							15.3	5.6	9.7	9.4	9.4		14.0		14.0			
13							15.0	5.6	9.4	14.2	13.7	0.5	14.0		14.0			
14							14.4		14.4	17.1	11.6	5.5	13.8		13.8			
15							14.1	5.6	8.5	16.4	11.6	4.8	13.5		13.5			
16							14.1	5.6	8.5	16.6	11.6	5.0	13.3		13.3			
17							14.2	5.6	8.6	16.5	11.6	4.9	13.9		13.9			
18							14.3	11.6	2.7	17.9		17.9	14.0		14.0			
19				1.8	1.8		14.2	10.7	3.5	19.5		19.5	13.8		13.8			
20				4.8	4.8		14.0	5.6	8.4	16.6		16.6	13.8		13.8			
21				5.0	5.0		14.2	5.6	8.6	16.5		16.5	13.1		13.1			
22				8.3	8.3		14.1	5.6	8.5	16.6		16.6	13.0		13.0			
23				13.2	13.2		14.1	5.6	8.5	16.5		16.5	12.0		12.0			
24				6.1	6.1		14.1	14.1		16.5		16.5	11.9		11.9			
25				4.2	4.2		13.1	13.1		16.2		16.2	11.3		11.3			
26				16.4	14.0	2.4	12.2	12.2		15.2		15.2	11.3		11.3			
27				16.3	14.0	2.3	12.2	12.2		15.9		15.9	10.9		10.9			
28				15.4	13.5	1.9	12.2	12.2		16.4		16.4	10.2		10.2			
29							12.2	12.2		16.5		16.5	9.5		9.5			
30							11.9	11.9		16.5		16.5	8.5		8.5			
31							11.4	11.4					7.8		7.8			
Total	84.9	84.9		91.3	84.7	6.6	463.6	270.5	193.0	419.6	183.1	236.5	396.3		396.3	26.8		26.8
Acre-feet		168			181			920			832			784			53	
Priority Diverted		168			168			537			383							
Apport Diverted					13			383			469			784			53	
Appor diverted to date					13			396			865			1649			1702	
TBI acreage		2012.79			2402.45			2436.31			2436.31			2436.31			2436.31	
Apportioned		2496			3243			3288			3288			3288			3288	
Duty		0.08			0.06			0.38			0.34			0.32			0.02	

DAY	JUL			AUG			SEP			OCT			NOV			DEC			
	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Totals
1				13.8		13.8	11.6		11.6	8.3		8.3	7.9	7.9		7.9	7.9		
2				14.1		14.1	14.7		14.7	15.6	5.6	10.0	8.0	8.0		7.9	5.5	2.4	
3				14.1		14.1	14.3		14.3	15.6		15.6	8.1	8.1		7.9	7.9		
4				14.0	11.6	2.4	14.0		14.0	15.7	5.6	10.1	8.0	8.0		8.0	8.0		
5				20.3	5.6	14.7	14.6		14.6	15.1	5.6	9.5	7.9	7.9		8.1	8.1		
6				19.0	13.7	5.3	14.7		14.7	14.7	5.6	9.1	7.9	7.9		8.1	8.1		
7				7.8	7.8		14.6		14.6	8.2	8.2		8.0	8.0		8.1	8.1		
8				14.7	14.7		13.7		13.7	1.9	1.9		8.1	8.1		8.1	8.1		
9				15.3	14.2	1.1	14.0		14.0	11.3	11.3		8.0	8.0		8.1	8.1		
10				16.2	16.2		13.6		13.6	15.9	15.9		7.9	7.9		8.1	8.1		
11				16.5	14.2	2.3	13.3	13.3		16.8	16.8		7.9	7.9		8.1	8.1		
12				16.4	14.2	2.2	13.8	13.8		15.9	15.9		7.9	7.9		8.1	8.1		
13				16.0	5.6	10.4	16.7	16.7		16.0	11.7	4.3	7.9	7.9		8.1	8.1		
14				16.1		16.1	19.5	19.5		16.3	5.6	10.7	8.3	8.3		8.1	8.1		
15				14.1		14.1	19.6	19.6		16.3	11.7	4.6	8.4	8.4		8.1	8.1		
16				14.1		14.1	19.9	10.7	9.2	14.2		14.2	8.4	8.4		8.1	8.1		
17				14.1		14.1	20.0		20.0	10.6	5.6	5.0	8.4	8.4		8.1	8.1		
18				14.1		14.1	19.6	5.6	14.0	8.6		8.6	8.6	8.6		8.1	8.1		
19				14.0		14.0	19.6	10.7	8.9	8.5	8.5		8.6	8.6		8.1	8.1		
20				15.9	10.7	5.2	19.5	5.6	13.9	8.9	8.9		8.4	8.4		7.9	7.9		
21				17.3		17.3	19.4	14.2	5.2	8.7	8.7		8.6	8.6		7.9	7.9		
22				14.8		14.8	19.0	14.2	4.8	8.6	8.4	0.2	8.2	8.2		7.9	7.9		
23				14.0		14.0	17.4	17.4		8.0	8.0		8.1	8.1		7.9	7.9		
24				14.4		14.4	14.2	14.2		8.0	5.6	2.4	8.1	8.1		7.9	7.9		
25	3.4		3.4	13.9		13.9	12.2	5.6	6.6	8.1	8.1		8.1	8.1		7.9	7.9		
26	11.6		11.6	13.6		13.6	11.0		11.0	8.1	8.1		8.1	8.1		7.9	7.9		
27	6.8		6.8	14.0		14.0	6.8	5.6	1.2	8.1	8.1		7.9	7.9		7.9	7.9		
28	5.3		5.3	13.8		13.8	5.1		5.1	8.0	8.0		7.9	7.9		7.9	7.9		
29	9.5		9.5	13.4	11.6	1.8	5.6		5.6	7.9	7.9		8.0	8.0		7.9	7.9		
30	13.5		13.5	14.2	5.6	8.6	5.4		5.4	8.0	8.0		8.1	8.1		7.7	7.7		
31	13.6		13.6	12.3	12.3					8.0	8.0					7.6	7.6		
Total	63.7		63.7	455.3	188.0	267.3	437.0	186.7	250.3	342.9	230.3	112.6	243.7	243.7		247.5	245.1	2.4	
Acre-feet		126			903			867			680			483			491		6487
Priority Diverted					313			370			457			483			486		3345
Apport Diverted		126			590			496			223						5		3142
Appor diverted to date		1828			2418			2914			3137			3137			3142		3142
TBI acreage		2436.31			2436.31			2436.31			2448.31			2449.31			2429.81		2429.81
Apportioned		3288			3288			3288			3968			3968			3936		3936
Duty		0.08			0.37			0.36			0.27			0.20			0.22		2.87

Diversion on North side of Gila River in SW¼NW¼, Sec. 21, T. 19 S., R.26 W., NMPM. Water-stage recorder and 8 ft. parshall flume located in SE¼NW¼, Sec. 17, T. 19S., R. 26W.
Record good

c:\lotus\wk\123\yearly\2002\Duncan.123

2002

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	8.4	8.4		6.4	6.4		8.7	0.4	8.3	1.0	1.0		7.7		7.7			
2	8.6	8.6		6.4	6.4		8.3	0.4	7.9	1.1	1.1		8.0		8.0			
3	7.7	7.7		6.4	6.4		8.2	1.7	6.5	0.9	0.9		7.0		7.0			
4	6.8	6.8		6.4	6.4		8.8		8.8	1.3	1.3		6.8		6.8			
5	5.2	5.2		6.4	6.4		7.9		7.9	1.8	1.8		6.8		6.8			
6	4.6	4.6		6.4	6.4		8.8		8.8	1.8	1.8		6.6		6.6			
7	6.3	6.3		8.1	8.1		9.3		9.3	1.8	1.8		6.6		6.6			
8	6.9	6.9		8.8	8.8		9.6		9.6	1.1	1.1		6.9		6.9			
9	9.8	9.8		8.8	8.8		9.5		9.5	0.3	0.3		7.1		7.1			
10	10.9	10.9		8.8	8.8		9.4		9.4	0.3	0.3		6.1		6.1			
11	12.9	12.9		8.9	8.9		9.6		9.6	0.3	0.3		5.2		5.2			
12	13.7	13.7		11.5	11.5		8.8		8.8	0.2		0.2	6.2		6.2			
13	13.5	13.5		12.4	12.4		8.3		8.3	11.6	1.8	9.8	5.7		5.7			
14	13.7	13.7		12.2	12.2		7.0		7.0	14.7	1.8	12.9	5.2		5.2			
15	13.7	13.7		12.2	12.2		5.5		5.5	14.9	0.4	14.5	3.8		3.8			
16	14.4	14.4		12.2	12.2		5.0		5.0	17.3	0.4	16.9	1.9		1.9			
17	14.9	14.9		12.2	12.2		5.1		5.1	18.9	0.4	18.5	2.2		2.2			
18	12.0	12.0		12.3	12.3		5.1		5.1	18.1		18.1	0.8		0.8			
19	13.4	13.4		12.3	10.4	1.9	5.3		5.3	15.3		15.3						
20	13.8	13.8		12.2	12.2		5.1		5.1	16.1		16.1						
21	14.0	14.0		12.5	12.5		5.1		5.1	13.3		13.3	0.1		0.1			
22	14.1	14.1		12.4	3.0	9.4	4.9		4.9	13.7		13.7						
23	14.3	14.3		10.0	5.9	4.1	4.6		4.6	14.9		14.9						
24	11.0	11.0		9.1	3.0	6.1	4.7	4.7		13.2		13.2						
25	9.9	9.9		9.0	5.9	3.1	4.3	4.3		10.8		10.8						
26	10.1	10.1		8.8	3.1	5.7	3.4	3.4		9.2		9.2						
27	10.1	10.1		8.8	4.8	4.0	3.3	3.3		10.0		10.0						
28	10.0	10.0		8.8	1.6	7.2	3.3	3.3		11.7		11.7						
29	9.7	9.7					3.3	3.3		10.9		10.9						
30	8.4	8.4					1.9	1.9		8.2		8.2						
31	6.4	6.4					1.0	1.0										
Total	327.2	327.2		270.7	229.2	41.6	193.1	27.7	165.4	264.7	16.5	238.2	100.7		100.7			
Acre-feet		649			537			383			606			200				
Priority Diverted		649			455			55			33							
Apport Diverted					82			328			472			200				
Appor diverted to date					82			410			882			1082			1082	
TBI acreage		1784.49			1995.1			2161.04			2211.84			2211.84			2211.84	
Apportioned		22.13			2693			2917			2986			2986			2986	
Duty		0.36			0.23			0.13			0.21			0.09				

DAY	JUL			AUG			SEP			OCT			NOV			DEC			
	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Totals
1				4.7		4.7	3.6		3.6				16.9	16.9		8.8	3.4	5.4	
2				5.3		5.3	3.9		3.9	3.0		3.0	12.1	12.1		8.8		8.8	
3				3.2		3.2	4.0		4.0	6.0		6.0	9.0	9.0		8.8	3.4	5.4	
4				1.6		1.6	1.7		1.7	7.6		7.6	8.2	8.2		2.9	2.9		
5							0.6		0.6	7.8		7.8	6.5	6.5					
6							0.6		0.6	5.8		5.8	6.4	6.4					
7							1.7		1.7	3.0	3.0		8.9	8.9					
8							3.0		3.0	3.8	3.8		9.2	9.2					
9							7.8		7.8	7.9	7.9		8.7	8.7					
10							5.6		5.6	20.7	20.7		8.5	8.5					
11							6.2	6.2		20.4	20.4		8.6	8.6					
12							20.0	20.0		19.9	11.6	8.3	8.6	8.6					
13							26.1	26.1		19.3	0.4	18.9	8.9	8.9					
14							25.9	25.9		18.6		18.6	9.1	9.1					
15							28.0	27.6	0.4	18.3		18.3	8.9	8.9		8.8	8.8		
16				3.5		3.5	25.2		25.2	13.9		13.9	8.4	8.4		10.8	7.1	3.7	
17				3.7		3.7	24.0		24.0	9.0		9.0	8.8	8.8		7.6	6.3	1.3	
18				3.7		3.7	23.5		23.5	16.4		16.4	8.8	8.8		7.6	7.6		
19				3.7		3.7	21.1		21.1	21.9	5.4	16.5	8.8	8.8		7.6	7.6		
20				5.7		5.7	18.4		18.4	22.2	6.4	15.8	8.4	8.4		7.7	7.7		
21				8.5		8.5	16.1	3.4	12.7	21.3	5.4	15.9	8.9	8.9		7.8	7.8		
22				9.2		9.2	12.9	3.4	9.5	20.4	0.4	20.0	8.9	8.9		7.8	7.8		
23				9.3		9.3	6.8	6.8		19.7	3.4	16.3	8.8	8.8		2.8	2.8		
24				9.3		9.3	1.3	1.3		19.5		19.5	8.8	8.8					
25				8.6		8.6				19.5	19.5		8.8	8.8					
26				6.1		6.1				19.6	19.6		8.8	8.8					
27				3.3		3.3				19.7	19.7		8.8	8.8					
28				0.3		0.3				19.0	19.0		8.8	8.8					
29	0.7		0.7	1.1		1.1				17.1	17.1		8.8	8.8					
30	2.4		2.4	1.8		1.8				16.9	16.9		8.8	8.8					
31	2.7		2.7	1.5	1.5					17.0	17.0								
Total	5.8		5.8	94.1	1.5	92.6	288.0	120.7	167.3	456.2	217.6	237.6	269.9	269.9		97.8	73.2	24.6	
Acre-feet		12			187			571			903			535			194		4676
Priority Diverted					3			239			432			535			145		2546
Apport Diverted		12			184			332			471						49		2130
Appor diverted to date		1094			1278			1610			2081			2081			2130		2130
TBI acreage		2211.84			2211.84			2211.84			2211.84			2211.84			2179.34		2179.34
Apportioned		2986			2986			2986			3583			3583			3531		3531
Duty		0.01			0.06			0.26			0.41			0.24			0.12		2.15

Diversion on South side of Gila River in NE¼NW¼, Sec. 4, T. 19 S., R21 W., NMPM. Water-stage recorder and 6 ft. Parshall flume located in NW¼SE¼, Sec. 34, T.8 S., R.32 E.

Record good

c:\lotus\wk\123\yearly\2002\Duncan.123

2002

VALLEY CANAL: 1,387.20 acres

Mean daily diversions, cubic feet per second

DAY	JAN			FEB			MAR			APR			MAY			JUN		
	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.
1							7.1		7.1	0.8	0.6		6.5		6.5			
2							7.1		7.1	0.8	0.8		4.3		4.3			
3							7.3	0.8	6.5	0.2	0.2		8.3		8.3			
4							7.5		7.5	0.8	0.8		5.2		5.2			
5							7.6		7.6	0.8	0.8		3.8		3.8			
6							7.3		7.3	0.6	0.6		4.4		4.4			
7							7.4		7.4	0.6	0.6		7.4		7.4			
8							7.6		7.6	1.1	1.1		6.4		6.4			
9							7.5		7.5				5.0		5.0			
10							7.6		7.6				3.6		3.6			
11							7.6		7.6				2.8		2.8			
12				8.2	8.2		6.3		6.3	3.5		3.5	2.4		2.4			
13				13.0	13.0		5.6		5.6	12.2	0.8	11.4	2.5		2.5			
14	5.4	5.4		13.2	13.2		5.8		5.8	10.4	0.8	9.6	3.9		3.9			
15	9.0	9.0		13.3	13.3		5.7		5.7	10.6		10.6	5.1		5.1			
16	9.1	9.1		13.4	13.4		5.7		5.7	13.6		13.6	1.2		1.2			
17	8.9	8.9		13.4	13.4		5.5		5.5	12.5		12.5	1.0		1.0			
18	8.9	8.9		12.9	12.3	0.6	5.7		5.7	11.3		11.3	1.0		1.0			
19	8.7	8.7		12.1	7.7	4.4	5.8		5.8	8.2		8.2	2.5		2.5			
20	8.9	8.9		11.5	11.5		5.8		5.8	7.7		7.7	2.6		2.6			
21	9.0	9.0		12.0	11.5	0.5	5.9		5.9	6.7		6.7	1.4		1.4			
22	8.8	8.8		11.9	1.6	10.3	5.7		5.7	9.2		9.2	1.6		1.6			
23	7.2	7.2		11.8	5.8	6.0	5.8		5.8	5.3		5.3	0.2		0.2			
24	2.1	2.1		11.7	1.6	10.1	5.3	5.3		7.6		7.6	0.5		0.5			
25				10.1	5.8	4.3	4.6	4.6		7.0		7.0						
26				7.1	1.6	5.6	0.7	0.7		11.3		11.3						
27				7.4	5.8	1.6	1.0	1.0		10.4		10.4						
28				7.5	0.8	6.7	1.2	1.2		8.8		8.8	0.4		0.4			
29							1.5	1.5		7.9		7.9	0.1		0.1			
30							1.2	1.2		4.9		4.9						
31							0.7	0.7										
Total	86.0	86.0		190.5	140.5	50.0	167.0	16.9	150.1	174.6	7.1	167.5	84.1		84.1			
Acre-feet		171			378			331			346			167				
Priority Diverted		171			279			34			14							
Apport Diverted					99			298			332			167				
Appor diverted to date					99			397			729			896			896	
TBI acreage		969.49			1119.06			1119.06			1119.06			1119.06			1119.06	
Apportioned		1227			1511			1511			1511			1511			1511	
Duty		0.17			0.32			0.30			0.31			0.15				

DAY	JUL			AUG			SEP			OCT			NOV			DEC			Totals
	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	
1				3.4		3.4	4.3		4.3	1.4		1.4	11.1	11.1		6.6	1.7	4.9	
2				5.0		5.0	3.7		3.7	8.2		8.2	9.0	9.0		6.6		6.6	
3				2.3		2.3	3.2		3.2	10.1		10.1	6.9	6.9		6.6	1.7	4.9	
4							3.0		3.0	9.9		9.9	6.7	6.7		6.6	1.7	4.9	
5							3.2		3.2	9.7		9.7	6.4	6.4		6.6	6.1	0.5	
6							1.3		1.3	11.0		11.0	6.4	6.4		6.6		6.6	
7							0.9		0.9	9.7	1.7	8.0	6.4	6.4		6.6		6.6	
8							1.0		1.0	3.4	3.4		6.4	6.4		6.6		6.6	
9							3.0		3.0	4.3	4.3		6.4	6.4		6.4		6.4	
10							3.3		3.3	4.4	4.4		6.7	6.7		6.4	6.4		
11							3.6	3.6		4.4	4.4		6.4	6.4		6.4	1.7	4.7	
12				8.0	1.6	6.4	3.9	3.9		4.6	4.6		6.5	6.5		6.4	6.1	0.3	
13				12.7		12.7	3.3	3.3		4.6		4.6	6.6	6.6		6.4	6.1	0.3	
14				7.6		7.6	3.6	3.6		4.3		4.3	6.6	6.6		6.4	6.1	0.3	
15				0.8		0.8	3.6	3.6		4.4		4.4	6.9	6.9		6.4	6.4		
16				0.6		0.6	3.6		3.6	5.3		5.3	6.7	6.7		6.6	6.1	0.4	
17				1.1		1.1	3.6		3.6	5.8		5.8	6.6	6.6		6.6	6.1	0.4	
18				0.4		0.4	3.4		3.4	5.6		5.6	6.6	6.6		6.6	6.6		
19				0.6		0.6	3.7		3.7	5.7	5.7		6.5	6.5		6.6	6.6		
20				3.9		3.9	3.6		3.6	7.1	6.1	1.0	6.6	6.6		6.6	6.6		
21				5.3		5.3	3.6	1.6	2.0	6.9	6.1	0.8	6.6	6.6		6.6	6.6		
22				5.4		5.4	3.6	1.6	2.0	9.3		9.3	6.3	6.3		6.6	6.6		
23				7.7		7.7	2.0	2.0		9.6	1.7	7.9	6.4	6.4		2.1	2.1		
24				7.6		7.6	0.9	0.9		10.8		10.8	6.6	6.6					
25				5.9		5.9				11.6	11.6		6.6	6.6					
26				2.8		2.8				11.6	11.6		6.6	6.6					
27				2.1		2.1				11.6	11.6		6.6	6.6					
28				2.7		2.7				11.6	11.6		6.6	6.6					
29	0.2		0.2	6.4		6.4				11.6	11.6		6.6	6.6					
30	0.8		0.8	4.6		4.6				11.3	11.3		6.6	6.6					
31	1.3		1.3	2.7	2.7					10.9	10.8								
Total	2.3		2.3	98.4	4.3	96.1	72.6	23.9	48.6	240.6	122.6	118.0	204.2	204.2		146.7	91.3	54.4	
Acre-feet		5			197			144			477			405			289		2911
Priority Diverted					9			47			243			405			181		1383
Apport Diverted		5			188			96			234						108		1528
Appor diverted to date		901			1090			1186			1420			1420			1528		1528
TBI acreage		1119.06			1119.06			1119.06			1177.68			1177.68			1177.68		1177.68
Apportioned		1511			1511			1511			1908			1908			1908		1908
Duty		0.00			0.18			0.13			0.33			0.34			0.25		2.47

Diversion on North side of Gila River in NE¼NW¼, Sec. 4, T. 18 S., R.21 W., NMPM. Water stage recorder and 9 R. Parshall flume located in NW¼SE¼, Sec. 34, T.8 S., R.32 E.
Record good

c:\lotus\wk\123\yearly\2002\Duncan.123

2002

SAFFORD VALLEY: 32,512,40 acres

Mean daily diversions, cubic feet per second

	JAN			FEB			MAR			APR			MAY			JUN		
DAY	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.
1	79.3	79.3		55.4	55.4		188.1	121.7	66.4	136.0	127.0	9.0	50.9		50.9	20.8		20.8
2	79.1	79.1		64.7	64.7		185.5	108.1	77.4	126.5	120.2	6.3	44.8		44.8	7.8		7.8
3	78.6	78.6		66.6	66.6		187.0	108.1	78.9	125.3	117.7	7.6	38.5		38.5			
4	64.6	64.6		87.5	87.5		190.9	121.7	69.2	123.1	107.9	15.2	47.7		47.7			
5	57.2	57.2		98.7	98.7		192.3	72.9	119.4	118.1	101.4	16.7	48.6		48.6			
6	45.7	45.7		98.4	98.4		190.5	72.9	117.6	120.7	110.6	10.1	45.2		45.2			
7	30.8	30.8		97.6	97.6		187.8	42.7	145.1	124.4	108.6	15.8	45.6		45.6			
8	22.3	22.3		101.8	101.8		186.3	52.5	133.8	113.0	104.7	8.3	45.8		45.8			
9	17.3	17.3		103.2	103.2		186.0	61.4	124.6	108.2	102.6	5.6	43.5		43.5			
10	13.3	13.3		101.9	101.9		184.1	42.7	141.4	107.7	98.6	9.1	43.3		43.3			
11	12.1	12.1		128.6	128.6		179.6	42.7	136.9	103.9	94.4	9.5	45.8		45.8			
12	13.9	13.9		174.5	150.4	24.1	184.8	36.7	128.1	96.7	88.5	8.2	50.4		50.4			
13	14.4	14.4		198.5	188.4	10.1	164.4	29.7	134.7	94.6	76.2	18.4	51.9		51.9			
14	15.7	15.7		202.7	202.7		163.5	29.7	133.8	92.6	85.8	6.8	48.7		48.7			
15	15.7	15.7		200.2	197.2	3.0	158.7	0.8	157.9	87.8	80.1	7.7	48.1		48.1			
16	15.6	15.6		199.0	196.3	2.7	155.3	6.6	148.7	86.1	74.8	11.3	42.2		42.2			
17	15.3	15.3		209.0	202.1	6.9	155.7	6.6	149.1	83.7	75.9	7.8	37.2		37.2			
18	15.1	15.1		207.1	201.8	5.3	159.3	52.5	106.8	82.1	74.8	7.3	34.1		34.1			
19	14.2	14.2		199.3	193.6	5.7	159.7	72.9	86.8	78.9		78.9	34.0		34.0			
20	13.9	13.9		197.2	167.1	30.1	159.6	61.4	98.2	69.1		69.1	28.1		28.1			
21	17.6	17.6		203.0	180.1	22.9	158.1	42.7	115.4	67.9		67.9	23.4		23.4			
22	23.3	23.3		192.5	170.9	21.6	157.7	52.5	105.2	67.9		67.9	18.4		18.4			
23	23.0	23.0		199.6	134.9	64.7	149.3	42.7	106.6	74.8		74.8	13.7		13.7			
24	28.3	28.3		201.2	172.7	28.5	144.1	42.7	101.4	58.6		58.6	20.1		20.1			
25	34.1	34.1		190.9	133.0	57.9	142.9	126.1	16.8	39.1		39.1	10.5		10.5			
26	33.9	33.9		167.9	137.0	30.9	139.1	125.9	13.2	32.0		32.0	0.6		0.6			
27	35.9	35.9		166.4	117.7	48.7	139.7	125.5	14.2	34.7		34.7	20.1		20.1			
28	34.8	34.8		165.9	122.8	43.1	135.5	118.4	17.1	32.3		32.3	32.6		32.6			
29	35.0	35.0					133.0	111.9	21.1	42.7		42.7	32.9		32.9			
30	38.0	38.0					141.3	124.1	17.2	50.9		50.9	26.9		26.9			
31	38.6	38.6					143.9	126.3	17.6				22.5		22.5			
Total	976.6	976.6		4279.3	3873.1	406.2	5083.7	2183.1	2900.6	2579.4	1749.8	829.6	1096.1		1096.1	28.6		28.6
Acre-feet		1937			8488			10084			5116			2174			57	
Priority Diverted		1937			7684			4331			3471							
Apport Diverted					805			5753			1645			2174			57	
Appor diverted to date					805			6558			8203			10378			10435	
TBI acreage		27927.42			27964.42			25731.18			28013.02			28008.02			28082.12	
Apportioned		34630			37752			37813			37818			37811			37911	
Duty		0.07			0.30			0.42			0.12			0.08			0.00	

	JUL			AUG			SEP			OCT			NOV			DEC			
DAY	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Totals
1				138.8		138.8	76.0	76.0		55.5		55.5	47.8	47.8		98.8	98.8		
2				133.7		133.7	80.8		80.8	62.8		62.8	43.9	43.9		99.8	72.0	27.8	
3				122.2		122.2	86.4		86.4	64.9	6.5	58.4	43.7	43.7		96.9	19.9	77.0	
4				150.6		150.6	87.7		87.7	65.2		65.2	46.2	46.2		91.7	63.5	28.2	
5				219.4	73.2	146.2	81.8		81.8	64.6	13.3	51.3	43.3	43.3		90.8	63.4	27.4	
6				292.2	52.7	239.5	74.6		74.6	64.1	13.3	50.8	42.8	42.8		97.2	75.5	21.7	
7				332.1	122.0	210.1	70.4		70.4	85.8	27.9	57.9	45.8	45.8		104.6	53.4	51.2	
8				324.6	323.1	1.5	80.1		80.1	96.2	82.4	13.8	47.9	47.9		107.0	67.5	39.5	
9				292.7	256.6	36.1	69.2		69.2	75.9	75.9		47.9	47.9		110.9	76.0	34.9	
10				294.9	174.1	120.8	64.1		64.1	64.1	64.1		48.1	48.1		113.1	72.2	40.9	
11				288.5	226.4	62.1	95.4		95.4	67.6	67.6		50.6	50.6		113.3	96.0	17.3	
12				295.8	174.1	121.7	172.8	172.8		75.0	75.0		48.8	48.8		118.1	85.9	32.2	
13				243.2	146.3	96.9	199.9	199.9		75.6	60.5	15.1	49.5	49.5		130.3	98.5	31.8	
14				160.4	13.7	146.7	161.6	161.6		62.6	43.5	19.1	48.9	48.9		141.7	106.3	35.4	
15				141.7		141.7	154.5	154.5		50.2	30.8	19.4	48.4	48.4		148.7	124.5	24.2	
16				126.4		126.4	149.1	149.1		60.6	51.8	8.8	48.4	48.4		143.6	126.9	16.7	
17				120.3		120.3	148.7	60.8	87.9	63.4		63.4	48.1	48.1		135.6	125.3	10.3	
18				120.8		120.8	148.6		148.6	78.2	13.3	62.9	61.0	61.0		138.3	116.2	22.1	
19				108.3		108.3	138.3	41.3	97.0	84.6		84.6	68.0	67.8	0.2	143.0	143.0		
20				99.0		99.0	132.4	57.8	74.6	88.8	79.5	9.3	66.0	66.0		147.3	139.9	7.4	
21				131.6	61.7	69.9	110.2	20.2	90.0	91.8	84.5	7.3	64.8	64.8		147.0	140.3	6.7	
22				143.2		143.2	100.3	93.0	7.3	85.3	79.7	5.6	64.9	64.9		149.8	149.8		
23				111.6		111.6	93.8	88.6	5.2	79.3	63.3	16.0	69.9	69.9		157.5	157.5		
24				108.9		108.9	67.4	67.4		77.3	66.6	10.7	73.7	73.7		158.3	158.3		
25	31.7		31.7	97.2		97.2	55.1	55.1		75.9	44.8	31.1	96.5	81.7	14.8	159.3	159.3		
26	72.6		72.6	79.1		79.1	51.4	6.5	44.9	74.4	64.1	10.3	95.5	95.5		158.6	158.6		
27	56.7		56.7	74.1		74.1	46.5	0.8	45.7	69.4	69.4		80.5	80.5		149.5	149.5		
28	60.7		60.7	68.9		68.9	45.3	34.9	10.4	69.9	69.9		82.1	82.1		136.7	136.7		
29	97.5		97.5	76.9		76.9	43.8	0.8	43.0	68.5	68.5		93.7	93.7		128.1	126.1		
30	133.0		133.0	79.5	79.3	0.2	38.5		38.5	55.7	55.7		98.5	82.0	16.5	130.0	130.0		
31	135.2		135.2	74.1	52.7	21.4				44.7	44.7					117.5	117.5		
Total	587.4		587.4	5050.7	1755.9	3294.8	2924.7	1441.1	1483.6	2195.9	1416.6	779.3	1815.2	1783.7	31.5	3961.0	3408.3	552.7	
Acre-feet		1165			10018			5801			4356			3600			7857		60651
Priority Diverted					3482			2858			2810			3537			6760		36870
Apport Diverted		1164			6536			2942			1546			62			1096		23781
Appor diverted to date		11599			18135			21077			22623			22685			23781		23781
TBI acreage		28082.12			28078.82			28975.79			26995.52			28969.42			27793.82		27793.62
Apportioned		37911			37906			38417			43733			43690			45026		45026
Duty		0.04			0.36			0.27			0.16			0.14			0.22		2.18

c:\lotus\wk\123\yearly\2002\Safford.123

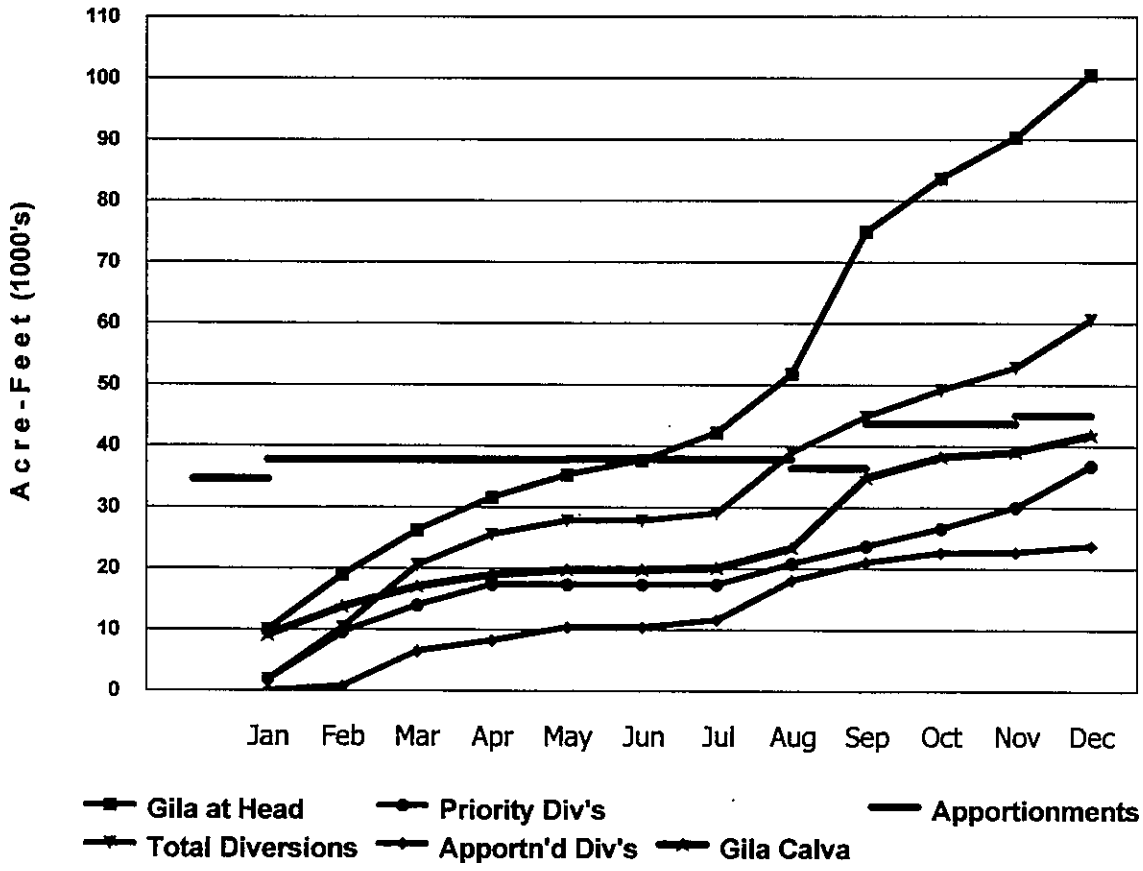
2002

MASS DIAGRAM OF SAFFORD VALLEY

DIVERSIONS, APPORTIONMENTS, & RIVER FLOWS

In Acre-feet

Month	Monthly Gila River at Head of Safford Valley	Accumulated Gila River at Head of Safford Valley	Accumulated Total Diversions	Accumulated Priority Diversions	Accumulated Apportioned Diversions	Water Apportioned	Accumulated Gila River At Calva	Monthly Gila River At Calva
JAN	10,048	10,048	1,937	1,937		34,630	9,158	9,158
FEB	8,944	18,992	10,425	9,620	805	37,752	13,797	4,639
MAR	7,315	26,307	20,509	13,951	6,558	37,813	17,040	3,243
APR	5,322	31,629	25,625	17,422	8,203	37,818	19,014	1,974
MAY	3,721	35,350	27,799	17,422	10,377	37,811	19,817	803
JUN	2,321	37,671	27,856	17,422	10,434	37,911	19,839	22
JUL	4,495	42,166	29,021	17,423	11,598	37,911	20,114	275
AUG	9,634	51,800	39,039	20,905	18,134	37,906	23,383	3,269
SEP	23,141	74,941	44,840	23,764	21,076	36,417	34,904	11,521
OCT	8,721	83,662	49,196	26,574	22,622	43,733	38,274	3,370
NOV	6,655	90,317	52,796	30,112	22,684	43,690	39,161	887
DEC	10,199	100,516	60,651	36,870	23,781	45,026	41,912	2,751
	Graph:	Gila at Head	Total Diversions	Priority Div's	Apportn'd Div's	Apportion-ments	Gila Calva	



c:\lotus\wk\123\yearly\2002\massaf_02.123

Plate 12

2002

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	9.7	9.7					9.6	5.0	4.6	5.0	5.0		2.2		2.2	0.7		0.7
2	9.6	9.6					9.3	4.6	4.7	5.0	5.0		2.5		2.5	0.3		0.3
3	9.6	9.6					9.2	4.6	4.6	5.0	5.0		2.7		2.7			
4	9.6	9.6					9.6	5.0	4.6	5.0	5.0		2.6		2.6			
5	9.4	9.4					9.7	3.7	6.0	5.0	5.0		2.6		2.6			
6	9.4	9.4					9.7	3.7	6.0	4.6	4.6		2.5		2.5			
7	9.6	9.6					9.7	2.3	7.4	4.3	4.3		2.5		2.5			
8	9.6	9.6					9.7	2.8	6.9	4.3	4.3		2.4		2.4			
9	6.4	6.4					9.7	3.1	6.6	4.3	4.3		2.4		2.4			
10	1.9	1.9					9.7	2.3	7.4	4.3	4.3		2.3		2.3			
11	2.2	2.2		3.6	3.6		9.6	2.3	7.3	4.5	4.5		2.3		2.3			
12	3.8	3.8		4.8	4.8		7.1	2.0	5.1	4.6	4.6		2.3		2.3			
13	3.9	3.9		4.6	4.6		5.7	1.6	4.1	4.6	4.1	0.5	2.3		2.3			
14	3.9	3.9		4.6	4.6		5.6	1.6	4.0	4.6	4.6		2.2		2.2			
15	3.9	3.9		4.6	4.6		5.6		5.6	4.0	4.0		2.2		2.2			
16	3.8	3.8		4.6	4.6		5.6	0.4	5.2	3.8	3.8		2.2		2.2			
17	3.8	3.8		4.6	4.6		5.6	0.4	5.2	3.9	3.9		2.0		2.0			
18	3.8	3.8		4.5	4.5		5.6	2.8	2.8	3.9	3.9		2.0		2.0			
19	3.6	3.6		4.5	4.5		5.6	3.7	1.9	3.9		3.9	2.0		2.0			
20	3.8	3.6		10.3	10.3		5.6	3.1	2.5	3.6		3.6	2.3		2.3			
21	3.6	3.6		12.0	12.0		5.6	2.3	3.3	3.1		3.1	2.5		2.5			
22	3.6	3.6		12.1	12.0	0.1	5.6	2.8	2.8	3.1		3.1	1.7		1.7			
23	3.6	3.6		12.1	5.3	6.8	5.6	2.3	3.3	3.1		3.1	0.9		0.9			
24	3.6	3.6		12.1	9.4	2.7	5.6	2.3	3.3	3.0		3.0	0.8		0.8			
25	3.6	3.6		10.9	5.3	5.6	5.6	5.6		3.0		3.0	0.7		0.7			
26	3.6	3.6		9.9	9.0	0.9	5.6	5.6		2.5		2.5	0.6		0.6			
27	3.6	3.6		9.8	6.5	3.3	5.4	5.4		2.3		2.3	0.6		0.6			
28	3.6	3.6		9.7	6.7	3.0	5.4	5.4		2.3		2.3	0.6		0.6			
29	3.6	3.6					5.4	5.3	0.1	2.3		2.3	1.7		1.7			
30	3.6	3.6					5.1	5.1		2.3		2.3	2.1		2.1			
31	1.3	1.3					5.0	5.0					1.2		1.2			
Total	158.3	158.3		139.3	116.9	22.4	217.4	102.1	115.3	115.2	80.2	35.0	59.9		59.9	1.0		1.0
Acre-feet		314			276			431			228			119			2	
Priority Diverted		314			232			203			188							
Apport Diverted					44			228			89			119			2	
Appor diverted to date					44			273			342			461			463	
TBI acreage		1033.33			1033.33			1033.33			1033.33			1033.33			1107.43	
Apportioned		1281			1395			1395			1395			1395			1495	
Duty		0.30			0.27			0.42			0.22			0.12			-0.09	

DAY	JUL			AUG			SEP			OCT			NOV			DEC			Totals
	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	
1				6.4		6.4	4.1	4.1		2.8		2.8	0.6	0.6		7.5	7.5		
2				7.3		7.3	4.1		4.1	5.0		5.0	0.5	0.5		7.6	7.0	0.6	
3				7.2		7.2	4.1		4.1	5.6	0.4	5.2	0.5	0.5		5.3	1.0	4.3	
4				6.4		6.4	4.2		4.2	5.3		5.3	0.5	0.5					
5				10.8	4.0	6.8	4.2		4.2	4.7	0.8	3.9	0.3	0.3					
6				13.2	3.0	10.2	4.2		4.2	4.6	0.8	3.8							
7				15.3	5.3	10.0	4.0		4.0	4.1	1.8	2.3	2.8	2.8		3.4	3.3	0.1	
8				13.3	13.3		3.9		3.9	4.5	4.5		5.0	5.0		5.3	4.3	1.0	
9				12.2	12.2		3.4		3.4	4.8	4.8		5.0	5.0		5.3	4.9	0.4	
10				11.9	7.8	4.1	2.7		2.7	5.2	5.2		5.0	5.0		5.3	4.3	1.0	
11				12.4	12.4		4.5		4.5	5.0	5.0		5.0	5.0		3.0	3.0		
12				13.0	7.8	5.2	5.5	5.5		7.2	7.2		5.0	5.0					
13				12.5	7.0	5.5	6.5	6.5		8.4	8.4		5.0	5.0					
14				9.5	0.8	8.7	6.6	6.6		7.8	4.9	2.9	5.0	5.0					
15				6.8		6.8	6.3	6.3		7.4	2.5	4.9	5.0	5.0					
16				5.7		5.7	6.0	6.0		7.4	4.3	3.1	5.0	5.0					
17				4.7		4.7	6.9	3.3	3.6	7.3		7.3	5.0	5.0					
18				4.5		4.5	7.4		7.4	7.2	0.8	6.4	5.0	5.0					
19				4.3		4.3	7.4	2.5	4.9	7.9		7.9	5.0	5.0					
20				4.8		4.8	7.4	3.3	4.1	7.9	7.2	0.7	5.0	5.0					
21				5.8	3.3	2.5	7.4	1.0	6.4	7.9	7.8	0.1	5.0	5.0					
22				7.6		7.6	7.4	7.0	0.4	7.7	7.2	0.5	5.0	5.0					
23				5.4		5.4	7.3	7.0	0.3	7.7	4.9	2.8	5.0	5.0		3.0	3.0		
24				4.3		4.3	6.5	6.5		7.7	7.0	0.7	5.0	5.0		5.0	5.0		
25	1.3		1.3	4.3		4.3	3.6	3.6		7.7	3.0	4.7	5.0	5.0		5.0	5.0		
26	3.6		3.6	3.7		3.7	2.2	0.4	1.8	6.0	5.7	0.3	5.0	5.0		5.1	5.1		
27	3.2		3.2	3.3		3.3	2.7		2.7				5.0	5.0		5.1	5.1		
28	3.1		3.1	3.2		3.2	3.0	2.2	0.8				5.0	5.0		5.1	5.1		
29	4.4		4.4	3.1		3.1	3.0		3.0				6.5	6.5		5.1	5.1		
30	5.5		5.5	3.6	3.6								7.4	7.4		5.0	5.0		
31	5.7		5.7	4.0	3.0	1.0										5.0	5.0		
Total	26.8		26.8	230.6	83.6	147.0	146.5	71.8	74.7	164.8	94.2	70.6	124.1	124.1		86.1	78.7	7.4	
Acre-feet		53			457			291			327			246			171		2916
Priority Diverted					166			142			187			246			156		1805
Apport Diverted		53			292			148			140						15		1111
Appor diverted to date		516			808			956			1096			1096			1111		1111
TBI acreage		1107.43			1107.43			1107.43			1107.43			1107.43			1107.43		1107.43
Apportioned		1495			1495			1495			1794			1794			1794		1794
Duty		0.06			0.41			0.26			0.30			0.22			0.16		2.63

Diversion from North side of Gila River in SE¼SE¼, Sec. 30, T.8S., R.28E. Water-stage recorder and 3 ft. Parshall flume located in NE¼NE¼, Sec.31, T.8S., R.28E.
Record good

c:\lotus\wk\123\yearly\2002\Safford.123

2002

SAN JOSE CANAL: 4,150.03 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	17.5	17.5					26.0	21.2	4.8	21.2	21.2		13.4		13.4	7.8		7.8
2	17.5	17.5					25.6	20.1	5.5	19.6	19.6		13.2		13.2	2.8		2.8
3	17.5	17.5					25.8	20.1	5.7	19.1	19.1		13.1		13.1			
4	17.5	17.5		12.4	12.4		26.0	21.2	4.8	18.4	18.4		13.3		13.3			
5	17.5	17.5		17.5	17.5		25.8	16.8	9.0	17.7	17.7		13.4		13.4			
6	5.5	5.5		17.5	17.5		26.1	16.8	9.3	19.2	19.2		13.4		13.4			
7				17.5	17.5		26.2	12.3	13.9	20.1	20.1		13.4		13.4			
8				17.5	17.5		26.2	13.4	12.8	18.3	18.3		13.4		13.4			
9				17.5	17.5		25.9	14.4	11.5	17.4	17.4		13.4		13.4			
10				17.5	17.5		25.6	12.3	13.3	17.3	17.3		13.4		13.4			
11				17.5	17.5		25.5	12.3	13.2	17.0	17.0		16.1		16.1			
12				17.5	17.5		24.2	10.0	14.2	16.1	16.1		17.8		17.8			
13				18.0	18.0		23.4	8.9	14.5	16.2	16.2		15.7		15.7			
14				17.5	17.5		23.1	8.9	14.2	16.8	16.8		14.4		14.4			
15				17.5	17.5		22.5		22.5	14.8	14.8		14.4		14.4			
16				17.5	17.5		22.3	1.1	21.2	13.4	13.4		11.7		11.7			
17				17.5	17.5		22.3	1.1	21.2	13.6	13.6		10.3		10.3			
18				17.5	17.5		22.4	13.4	9.0	13.3	13.3		10.1		10.1			
19				17.5	17.5		22.5	16.8	5.7	12.8		12.8	10.0		10.0			
20				17.5	17.5		22.3	14.4	7.9	11.1		11.1	8.6		8.6			
21				29.7	27.1	2.6	22.3	12.3	10.0	11.2		11.2	7.8		7.8			
22				33.7	27.1	6.6	22.3	13.4	8.9	10.7		10.7	5.4		5.4			
23				31.2	21.2	10.0	21.0	12.3	8.7	12.6		12.6	3.4		3.4			
24				29.1	23.8	5.3	20.5	12.3	8.2	11.1		11.1	6.8		6.8			
25				27.3	21.2	6.1	20.1	20.1		8.1		8.1	3.9		3.9			
26				26.3	23.8	2.5	20.1	20.1		7.3		7.3						
27				26.9	21.2	4.7	20.1	20.1		7.3		7.3	6.4		6.4			
28				26.0	22.3	3.7	18.7	18.7		7.3		7.3	10.0		10.0			
29							17.8	17.8		11.0		11.0	10.0		10.0			
30							20.0	20.0		13.4		13.4	8.5		8.5			
31							21.2	21.2					7.8		7.8			
Total	93.0	93.0		622.1	480.6	41.6	713.8	443.6	270.0	433.4	309.5	123.9	332.5		332.5	10.6		10.6
Acre-feet		184			1036			1416			880			660			21	
Priority Diverted		184			953			880			614							
Apport Diverted					82			536			246			660			21	
Appor diverted to date					82			618			864			1524			1545	
TBI acreage		3698.28			3698.68			3698.68			3698.68			3698.68			3698.68	
Apportioned		4550			4993			4993			4993			4993			4993	
Duty		0.05			0.28			0.38			0.23			0.18			0.01	

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				22.2		22.2	17.1	17.1		16.0		16.0	25.2	25.2		9.1	9.1		
2				22.8		22.8	17.2		17.2	17.5		17.5	25.1	25.1		9.0	9.0		
3				21.7		21.7	17.7		17.7	17.5	1.1	16.4	25.3	25.3		8.8	6.7	2.1	
4				22.6		22.6	17.8		17.8	17.5		17.5	25.1	25.1		8.8	8.8		
5				30.7	16.8	13.9	17.8		17.8	17.5	3.4	14.1	25.1	25.1		8.8	8.8		
6				42.2	13.4	28.8	17.1		17.1	17.5	3.4	14.1	25.2	25.2		15.1	15.1		
7				46.2	21.2	25.0	16.7		16.7	18.5	8.9	9.6	25.3	25.3		17.5	14.4	3.1	
8				46.2	46.2		16.7		16.7	17.6	17.6		25.3	25.3		17.7	17.7		
9				46.2	38.8	7.4	15.6		15.6	11.3	11.3		25.2	25.2		11.5	11.5		
10				46.2	22.8	23.4	14.7		14.7	8.8	8.8		25.3	25.3		9.1	9.1		
11				46.2	28.4	17.8	20.8		20.8	8.8	8.8		25.0	25.0		9.2	9.2		
12				40.6	22.8	17.7	36.1	36.1		8.8	8.8		25.0	25.0		8.9	8.9		
13				33.1	21.2	11.9	48.0	48.0		8.8	8.8		25.0	25.0		15.1	15.1		
14				24.8	3.4	21.4	36.6	36.6		9.4	9.4		25.0	25.0		17.5	17.5		
15				21.2		21.2	33.8	33.8		9.0	9.0		25.0	25.0		17.5	17.5		
16				21.2		21.2	33.8	33.8		15.5	15.5		25.0	25.0		17.5	17.5		
17				21.8		21.8	33.8	14.4	19.4	17.5		17.5	25.0	25.0		17.5	17.5		
18				21.2		21.2	33.8		33.8	17.5	3.4	14.1	25.0	25.0		17.5	17.5		
19				21.2		21.2	33.8	12.3	21.5	21.9		21.9	25.0	24.8	0.2	17.5	17.5		
20				20.5		20.5	33.8	14.4	19.4	25.0	22.2	2.8	25.0	25.0		17.5	17.5		
21				20.6	14.4	6.2	21.4	6.7	14.7	25.0	22.8	2.2	25.0	25.0		17.5	17.5		
22				22.3		22.3	17.5	17.5		25.0	22.2	2.8	25.0	25.0		17.5	17.5		
23				20.8		20.8	17.5	17.5		25.0	20.0	5.0	25.0	25.0		17.5	17.5		
24				20.1		20.1	17.0	17.0		25.0	21.2	3.8	25.0	25.0		17.5	17.5		
25	6.3		6.3	18.5		18.5	14.6	14.6		25.0	13.3	11.7	25.0	25.0		17.5	17.5		
26	16.2		16.2	15.6		15.6	13.3	1.1	12.2	25.0	21.2	3.8	25.0	25.0		17.5	17.5		
27	13.9		13.9	14.4		14.4	13.3		13.3	25.0	25.0		7.0	7.0		17.5	17.5		
28	17.3		17.3	14.4		14.4	13.3	10.0	3.3	25.0	25.0					17.5	17.5		
29	18.6		18.6	16.4		16.4	13.3		13.3	25.0	25.0		6.4	6.4		17.5	17.5		
30	21.9		21.9	17.2	17.2		13.3		13.3	25.0	25.0		8.8	8.8		22.9	22.9		
31	21.2		21.2	17.0	13.4	3.6				25.0	25.0					25.0	25.0		
Total	115.4		115.4	816.0	280.0	536.0	664.1	327.9	336.2	576.9	398.1	190.8	674.3	674.1	0.2	476.5	471.3	5.2	
Acre-feet		229			1619			1317			1144			1337			945		10786
Priority Diverted					585			650			766			1337			935		6874
Apport Diverted		229			1063			667			378						10		3892
Appor diverted to date		1774			2837			3504			3882			3882			3892		3892
TBI acreage		3698.68			3698.68			3691.78			3691.78			3691.78			3691.78		3691.78
Apportioned		4993			4993			4964			5961			5961			5961		5961
Duty		0.06			0.44			0.36			0.31			0.36			0.26		2.92

Diversion from South side of Gila River in SW¼SW¼ Sec.36, T8 S., R.27 E. Water-stage recorder and 16 ft Parshall flume located in NE¼NE¼, Sec.1, T.7 S., R.27 E., which measures combined flow of San Jose, Fourness, Montezuma, and Union Canals. Segregation made by Watermaster

Record good

c:\lotus\wk\123\yearly\2002\Safford.123

2002

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	2.4	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					2.4		2.4									
5	2.4	2.4					2.4		2.4									
6	0.8	0.8					2.4		2.4									
7							2.4		2.4									
8							2.4		2.4									
9							2.4		2.4									
10							2.4		2.4									
11							2.4		2.4									
12							0.9		0.9									
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22				1.5	1.5													
23				2.4		2.4												
24				2.4		2.4												
25				2.4		2.4												
26				2.4		2.4												
27				2.4		2.4												
28				2.4		2.4												
29																		
30																		
31																		
Total	12.8	12.8		15.9	1.5	14.4	27.3		27.3									
Acre-feet		25			32			54										
Priority Diverted		25			3													
Apport Diverted					29			54										
Appor diverted to date					29			83			83			83			83	
TBI acreage		189.6			189.6			189.6			189.6			189.6			189.6	
Apportioned		235			256			256			256			256			256	
Duty		0.13			0.17			0.28										

DAY	JUL			AUG			SEP			OCT			NOV			DEC			Totals
	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	
1																			
2																			
3																			
4																			
5				1.5		1.5													
6				2.4		2.4													
7				2.4		2.4													
8				2.4	2.4														
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				0.9		0.9													
15																			
16																			
17																			
18																			
19																1.8	1.8		
20																2.4	2.4		
21																2.4	2.4		
22																2.4	2.4		
23																2.4	2.4		
24																2.4	2.4		
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		
30																2.4	2.4		
31																2.4	2.4		
Total				21.6	7.2	14.4										30.6	30.6		
Acre-feet					43												61		215
Priority Diverted					14												61		103
Apport Diverted					29														112
Appor diverted to date		83			112			112			112			112			112		112
TBI acreage		189.6			189.6			189.6			189.6			189.6			189.6		189.60
Apportioned		256			256			256			307			307			307		307
Duty					0.23												0.32		1.13

c:\lotus\wk\123\yearly\2002\Safford.123

2002

MONTEZUMA CANAL: 4,835.96 acres

Mean daily diversions, cubic feet per second

	JAN			FEB			MAR			APR			MAY			JUN		
DAY	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.
1				18.6	18.6		24.9	18.5	6.4	17.3	17.3		14.9		14.9	6.0		6.0
2				26.3	26.3		24.6	18.1	6.5	18.2	18.2		12.0		12.0	2.2		2.2
3				26.3	26.3		24.8	18.1	6.7	18.4	18.4		10.0		10.0			
4				26.3	26.3		24.9	18.5	6.4	17.7	17.7		13.8		13.8			
5				26.3	26.3		24.7	17.2	7.5	16.7	16.7		14.1		14.1			
6				26.3	26.3		25.0	17.2	7.8	16.5	16.5		14.2		14.2			
7				26.3	26.3		25.2	15.1	10.1	16.7	16.7		14.4		14.4			
8				26.3	26.3		25.2	16.0	9.2	16.9	16.9		14.5		14.5			
9				26.3	26.3		24.8	16.2	8.6	17.5	17.5		14.6		14.6			
10				26.7	26.7		24.6	15.1	9.5	17.3	17.3		14.6		14.6			
11				24.7	24.7		24.0	15.1	8.9	16.8	16.8		10.7		10.7			
12				24.4	24.4		23.1	12.1	11.0	15.7	15.7		11.1		11.1			
13				25.2	25.2		22.3	10.1	12.2	15.4	15.4		11.9		11.9			
14				25.1	25.1		21.9	10.1	11.8	16.0	16.0		15.5		15.5			
15				25.2	25.2		21.1	0.8	20.3	15.7	15.7		14.7		14.7			
16				24.6	24.6		20.2	2.3	17.9	15.7	15.7		13.2		13.2			
17				32.6	25.7	6.9	20.2	2.3	17.9	16.2	16.2		12.3		12.3			
18				34.9	29.6	5.3	20.6	16.0	4.6	15.8	15.8		12.2		12.2			
19				32.0	29.6	2.4	20.6	17.2	3.4	14.6		14.6	11.9		11.9			
20				30.6	20.1	10.5	20.3	16.2	4.1	12.5		12.5	9.5		9.5			
21				30.2	22.9	7.3	19.8	15.1	4.7	12.9		12.9	7.2		7.2			
22				27.1	20.1	7.0	19.7	16.0	3.7	12.9		12.9	6.6		6.6			
23				25.2	22.4	2.8	19.0	15.1	3.9	13.2		13.2	5.1		5.1			
24				24.9	20.1	4.8	18.4	15.1	3.3	12.1		12.1	8.6		8.6			
25				25.0	20.5	4.5	18.0	18.0		8.3		8.3	4.5		4.5			
26							17.2	17.2		6.6		6.6						
27							17.3	17.3		6.4		6.4	6.9		6.9			
28							16.9	16.9		6.2		6.2	11.7		11.7			
29							17.1	17.1		11.4		11.4	11.0		11.0			
30							16.7	16.7		15.0		15.0	8.7		8.7			
31							17.5	17.5					7.6		7.6			
Total				867.4	615.9	51.5	660.6	454.2	206.4	432.6	300.5	132.1	338.0		338.0	8.2		8.2
Acre-feet					1324			1310			858			670			16	
Priority Diverted					1222			901			596							
Apport Diverted					102			409			262			670			16	
Appor diverted to date					102			511			773			1443			1459	
TBI acreage		3889.51			3889.51			3889.51			3889.51			3889.51			3889.51	
Apportioned		4823			5251			5251			5251			5251			5251	
Duty					0.34			0.34			0.22			0.17			0.00	

	JUL			AUG			SEP			OCT			NOV			DEC			
DAY	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Totals
1				15.8		15.8	17.4	17.4		14.6		14.6	9.0	9.0		17.7	17.7		
2				13.3		13.3	17.6		17.6	12.8		12.8	8.9	8.9		17.7	17.7		
3				18.6		18.6	17.6		17.6	13.9	2.3	11.6	9.0	9.0		16.9	6.4	10.5	
4				20.3		20.3	16.3		16.3	14.6		14.6	8.8	8.8		16.4	16.4		
5				27.8	17.2	10.6	14.6		14.6	14.9	5.2	9.7	8.9	8.9		16.3	16.3		
6				36.7	16.0	20.7	15.9		15.9	14.5	5.2	9.3	8.9	8.9		15.7	15.7		
7				41.0	18.5	22.5	17.1		17.1	18.5	10.0	8.5	9.1	9.1		17.5	16.2	1.3	
8				33.4	33.4		16.2		16.2	17.5	17.5		9.0	9.0		17.8	17.7	0.1	
9				33.0	33.0		16.7		16.7	17.7	17.7		8.9	8.9		17.7	17.7		
10				35.8	21.7	14.1	16.5		16.5	8.9	8.9		9.0	9.0		17.7	17.7		
11				37.9	32.5	5.4	20.2		20.2	8.7	8.7		8.7	8.7		17.8	17.8		
12				43.2	21.7	21.5	33.8	33.8		8.7	8.7		8.4	8.4		23.2	20.1	3.1	
13				36.9	20.1	16.8	36.3	36.3		8.7	8.7		8.2	8.2		30.5	21.1	9.4	
14				21.9	5.2	16.7	18.4	18.4		8.7	8.7		8.1	8.1		31.3	20.5	10.8	
15				16.9		16.9	15.8	15.8		8.7	8.7		8.0	8.0		32.4	23.7	8.7	
16				17.8		17.8	16.0	16.0		8.8	8.8		7.6	7.6		31.9	24.5	7.4	
17				19.0		19.0	16.8	16.2	0.6	8.8		8.8	7.7	7.7		27.4	23.7	3.7	
18				16.2		16.2	16.4		16.4	21.8	5.2	16.6	8.1	8.1		25.3	21.7	3.6	
19				15.9		15.9	13.8	13.8		25.5		25.5	8.0	8.0		26.7	26.7		
20				19.2		19.2	13.2	13.2		26.3	20.5	5.8	7.9	7.9		27.7	26.8	0.9	
21				18.6	16.2	2.6	17.6	6.4	11.2	25.7	21.7	4.0	7.6	7.6		27.7	26.8	0.9	
22				17.2		17.2	17.5	17.5		22.8	20.6	2.3	7.5	7.5		27.8	27.8		
23				18.1		18.1	16.4	16.4		26.3	18.1	8.2	8.2	8.2		31.1	31.1		
24				17.7		17.7	14.5	14.5		26.3	20.1	6.2	8.6	8.6		27.5	27.5		
25	5.3		5.3	16.8		16.8	14.2	14.2		26.3	16.0	10.3	8.3	8.3		25.8	25.8		
26	15.5		15.5	16.6		16.6	14.4	2.3	12.1	26.3	20.1	6.2	8.4	8.4		25.6	25.6		
27	15.0		15.0	16.1		16.1	13.6	0.8	12.8	26.3	26.3		9.4	9.4		26.0	26.0		
28	19.8		19.8	15.6		15.6	14.2	12.1	2.1	26.3	26.3		10.4	10.4		25.8	25.8		
29	16.7		16.7	14.8		14.8	12.9	0.8	12.1	26.3	26.3		14.8	14.8		26.0	26.0		
30	20.1		20.1	17.0	17.0		13.6		13.6	13.2	13.2		17.0	17.0		25.0	25.0		
31	17.4		17.4	17.4	16.0	1.4				8.8	8.8					24.8	24.8		
Total	109.8		109.8	705.7	288.5	437.2	514.4	264.9	249.5	537.4	362.2	175.2	270.4	270.4		738.7	678.3	60.4	
Acre-feet		218			1400			1020			1086			536			1465		9683
Priority Diverted					533			525			718			536			1345		6376
Apport Diverted		218			867			495			348						120		3507
Appor diverted to date		1677			2544			3039			3387			3387			3507		3507
TBI acreage		3889.51			3886.21			3886.21			3886.21			3886.21			3886.21		3886.21
Apportioned		5251			5246			5246			6296			6296			6296		6296
Duty		0.06			0.36			0.26			0.27			0.14			0.38		2.54

c:\lotus\wk\123\yearly\2002\Safford.123

2002

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	11.3	11.3					33.7	31.9	1.8	29.8	29.8		11.8		11.8	5.9		5.9
2	11.3	11.3					33.7	25.9	7.8	24.3	24.3		11.5		11.5	2.1		2.1
3	10.5	10.5					33.7	25.9	7.8	20.5	20.5		10.1		10.1			
4	9.8	9.8		8.8	8.8		33.7	31.9	1.8	20.5	20.5		11.6		11.6			
5	8.9	8.9		14.8	14.8		33.7	15.2	18.5	17.8	17.8		11.8		11.8			
6	10.8	10.8		15.0	15.0		33.7	15.2	18.5	21.4	21.4		11.8		11.8			
7	9.7	9.7		14.8	14.8		33.7	9.9	23.8	23.9	23.9		11.8		11.8			
8	9.7	9.7		18.9	18.9		33.7	11.8	21.9	19.0	19.0		11.8		11.8			
9	10.9	10.9		20.6	20.6		33.7	14.1	19.6	16.3	16.3		11.8		11.8			
10	11.4	11.4		20.4	20.4		33.7	9.9	23.8	16.3	16.3		11.8		11.8			
11	9.9	9.9		19.7	19.7		33.7	9.9	23.8	14.4	14.4		14.9		14.9			
12	10.1	10.1		23.7	23.7		33.8	9.8	24.0	12.9	12.9		15.3		15.3			
13	10.5	10.5		30.4	30.4		33.8	6.5	27.3	13.0	13.0		16.8		16.8			
14	11.8	11.8		33.8	33.8		33.8	6.5	27.3	13.2	13.2		14.1		14.1			
15	11.8	11.8		33.8	33.8		33.7		33.7	11.2	11.2		14.1		14.1			
16	11.8	11.8		33.8	33.8		33.7	2.8	30.9	9.8	9.8		11.4		11.4			
17	11.5	11.5		33.8	33.8		33.7	2.8	30.9	9.8	9.8		9.8		9.8			
18	11.3	11.3		33.8	33.8		33.7	11.8	21.9	9.5	9.5		9.8		9.8			
19	10.6	10.6		33.8	33.8		33.7	15.2	18.5	8.8		8.8	9.8		9.8			
20	10.3	10.3		33.8	33.8		33.7	14.1	19.6	7.7		7.7	7.4		7.4			
21	3.8	3.8		33.8	33.8		33.7	9.9	23.8	7.5		7.5	5.9		5.9			
22				33.8	33.8		33.7	11.8	21.9	6.9		6.9	4.7		4.7			
23				33.7	33.7		28.7	9.9	18.8	11.0		11.0	3.9		3.9			
24				33.7	33.7		25.9	9.9	16.0	8.5		8.5	3.9		3.9			
25				33.7	33.7		24.7	24.7		5.5		5.5	1.4		1.4			
26				33.7	33.7		23.9	23.9		5.6		5.6						
27				33.7	33.7		23.9	23.9		5.6		5.6	6.2		6.2			
28				33.7	33.7		21.1	21.1		5.6		5.6	9.8		9.8			
29							19.3	19.3		9.3		9.3	9.8		9.8			
30							28.2	28.2		11.8		11.8	7.2		7.2			
31							29.8	29.8					5.9		5.9			
Total	217.7	217.7		693.6	693.6		966.2	481.5	483.7	397.4	303.6	93.8	297.9		297.9	8.0		8.0
Acre-feet		432			1376			1914			788			591			16	
Priority Diverted		432			1376			955			602							
Apport Diverted								959			186			591			16	
Appor diverted to date								959			1145			1736			1752	
TBI acreage		6067.20			5967.30			5991.50			5995.20			5995.20			5995.20	
Apportioned		7523			8063			8089			8084			8084			8084	
Duty		0.07			0.23			0.32			0.13			0.10			0.00	

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				45.0		45.0	15.2	15.2		21.9		21.9	8.2	8.2		8.2	8.2		
2				45.9		45.9	15.2		15.2	27.5		27.5	8.2	8.2		8.2	8.2		
3				37.5		37.5	19.9		19.9	27.5	2.7	24.8	8.2	8.2		8.2	5.3	2.9	
4				41.0		41.0	21.0		21.0	27.5		27.5	8.2	8.2		8.2	8.2		
5				55.2	15.2	40.0	21.0		21.0	27.5	3.9	23.6	8.2	8.2		8.2	8.2		
6				69.0	11.8	57.2	17.1		17.1	27.5	3.9	23.6	8.2	8.2		8.2	8.2		
7				74.9	31.9	43.0	15.0		15.0	27.5	6.4	21.1	8.2	8.2		8.2	8.2		
8				74.9	74.9		15.0		15.0	17.2	17.2		8.2	8.2		8.2	8.2		
9				74.9	60.7	14.2	14.4		14.4	13.8	13.8		8.2	8.2		14.5	14.5		
10				74.9	53.7	21.2	14.0		14.0	13.8	13.8		8.2	8.2		17.0	17.0		
11				74.9	59.0	15.9	21.5		21.5	13.3	13.3		8.2	8.2		17.0	17.0		
12				65.5	53.7	11.8	32.5	32.5		13.7	13.7		8.2	8.2		17.0	17.0		
13				59.4	42.1	17.3	36.3	36.3		12.2	12.2		8.2	8.2		17.0	17.0		
14				48.5	3.9	44.6	29.7	29.7		13.8	13.8		8.2	8.2		25.1	25.1		
15				42.1		42.1	27.5	27.5		13.8	9.8	4.0	8.2	8.2		27.5	27.5		
16				35.5		35.5	27.5	27.5		23.1	21.1	2.0	8.2	8.2		27.5	27.5		
17				31.9		31.9	27.5	14.0	13.5	26.4		26.4	8.2	8.2		27.5	27.5		
18				31.9		31.9	27.5		27.5	27.5	3.9	23.6	8.2	8.2		27.5	27.5		
19				31.9		31.9	27.5	9.8	17.7	27.5		27.5	8.2	8.2		27.5	27.5		
20				25.7		25.7	27.5	14.0	13.5	27.5	27.5		8.2	8.2		27.5	27.5		
21				35.4	14.2	21.2	16.9	5.2	11.7	27.5	27.5		8.2	8.2		27.5	27.5		
22				43.8		43.8	13.8	13.8		27.5	27.5		8.2	8.2		27.5	27.5		
23				31.9		31.9	13.8	13.8		19.1	19.1		8.2	8.2		27.5	27.5		
24				25.9		25.9	13.8	13.8		17.4	17.4		8.2	8.2		27.5	27.5		
25	7.7		7.7	22.1		22.1	12.4	12.4		15.7	11.7	4.0	8.2	8.2		27.5	27.5		
26	17.2		17.2	16.3		16.3	11.6	2.7	8.9	15.3	15.3		8.2	8.2		27.5	27.5		
27	12.7		12.7	14.2		14.2	11.6		11.6	16.7	16.7		8.2	8.2		17.6	17.6		
28	11.8		11.8	14.2		14.2	11.6	9.7	1.9	16.3	16.3		8.2	8.2		13.7	13.7		
29	25.2		25.2	18.3		18.3	11.6		11.6	15.9	15.9		8.2	8.2		13.7	13.7		
30	36.3		36.3	17.9	17.9		11.6		11.6	16.8	16.8		8.2	8.2		13.7	13.7		
31	36.7		36.7	15.2	11.8	3.4				10.4	10.4					13.7	13.7		
Total	149.6		149.6	1296.7	450.8	844.9	581.5	277.9	303.6	629.1	371.6	257.5	246.0	246.0		575.6	572.7	2.9	
Acre-feet		297			2570			1153			1248			488			1142		12015
Priority Diverted					894			551			737			488			1136		7171
Apport Diverted		297			1676			602			511						6		4844
Appor diverted to date		2048			3725			4327			4838			4838			4844		4844
TBI acreage		5995.20			5995.20			5912.67			5932.30			5932.30			5995.20		5995.20
Apportioned		8084			8094			7982			9610			9610			9712		9712
Duty		0.05			0.43			0.21			0.21			0.08			0.17		2.00

c:\lotus\wk\123\yearly\2002\Safford.123

2002

GRAHAM CANAL: 4,217.68 acres

Mean daily diversions, cubic feet per second

DAY	JAN Total	JAN Priority	JAN Apport.	FEB Total	FEB Priority	FEB Apport.	MAR Total	MAR Priority	MAR Apport.	APR Total	APR Priority	APR Apport.	MAY Total	MAY Priority	MAY Apport.	JUN Total	JUN Priority	JUN Apport.
1							20.6	6.0	14.6	6.5	6.5		1.7		1.7			
2							21.0	4.7	16.3	6.5	6.5		1.7		1.7			
3							20.9	4.7	16.2	6.1	6.1		0.4		0.4			
4							21.0	6.0	15.0	5.9	5.9							
5							20.7	3.0	17.7	6.0	6.0							
6							20.6	3.0	17.6	6.3	6.3							
7							20.9	1.0	19.9	5.6	5.6							
8							20.7	1.7	19.0	5.0	5.0							
9							21.0	1.9	19.1	4.7	4.7							
10							20.9	1.0	19.9	4.7	4.7							
11				32.7	32.7		21.1	1.0	20.1	4.6	4.6							
12				47.4	23.3	24.1	16.1	0.8	15.3	4.5	4.5							
13				48.1	38.6	9.5	13.2	0.7	12.5	3.9	3.9							
14				47.5	47.5		13.0	0.7	12.3	3.0	3.0							
15				47.8	44.8	3.0	11.3		11.3	3.1	3.1							
16				47.5	44.8	2.7	10.6		10.6	3.1	3.1							
17				47.7	47.7		10.4		10.4	3.0	3.0							
18				41.8	41.8		10.6	1.7	8.9	3.1	3.1							
19				34.1	34.1		10.6	3.0	7.6	3.1		3.1						
20				32.9	22.0	10.9	10.6	1.9	8.7	2.9		2.9						
21				33.0	24.1	8.9	10.6	1.0	9.6	2.6		2.6						
22				29.7	24.1	5.6	10.7	1.7	9.0	2.4		2.4						
23				25.3	9.1	16.2	10.6	1.0	9.6	2.4		2.4						
24				25.0	17.8	7.2	10.9	1.0	9.9	2.5		2.5						
25				22.6	9.1	13.5	10.2	10.2		2.5		2.5						
26				20.9	15.9	5.0	9.9	9.9		1.9		1.9						
27				21.0	10.0	11.0	9.9	9.9		1.8		1.8						
28				20.8	10.6	10.2	9.9	9.9		1.8		1.8						
29							9.9	9.1	0.8	1.9		1.9						
30							9.9	9.9		1.7		1.7						
31							8.4	8.4										
Total				626.8	498.0	127.8	446.9	114.8	332.1	113.0	86.6	27.4	3.8		3.8			
Acre-feet					1241			896			224			8				
Priority Diverted					998			228			170							
Apport Diverted					253			669			54			8				
Appor diverted to date					253			912			966			974			974	
TBI acreage		3861.62			3861.62			3882.72			3882.72			3882.72			3882.72	
Apportioned		4786			5213			5242			5242			5242			5242	
Duty					0.32			0.23			0.06			0.00				

DAY	JUL Total	JUL Priority	JUL Apport.	AUG Total	AUG Priority	AUG Apport.	SEP Total	SEP Priority	SEP Apport.	OCT Total	OCT Priority	OCT Apport.	NOV Total	NOV Priority	NOV Apport.	DEC Total	DEC Priority	DEC Apport.	Totals
1				10.9		10.9	2.8	2.8											
2				12.5		12.5	2.8		2.8										
3				8.7		8.7	4.4		4.4										
4				9.2		9.2	4.6		4.6										
5				22.7	3.0	19.7	4.8		4.8										
6				35.6	1.7	33.9	3.9		3.9										
7				40.6	6.0	34.6	3.1		3.1										
8				38.6	38.6		6.1		6.1										
9				32.2	32.2		4.6		4.5							4.3	4.3		
10				39.6	13.3	26.3	1.9		1.9							6.7	4.5	2.2	
11				37.6	24.9	12.7	5.0		5.0							9.1	9.1		
12				36.7	13.3	23.4	12.2	12.2								11.9	9.8	2.1	
13				27.2	10.0	17.2	13.9	13.9								11.0	11.0		
14				16.3	0.4	15.9	12.9	12.9								12.4	10.4	2.0	
15				10.8		10.8	13.2	13.2								19.5	18.0	1.5	
16				8.2		8.2	13.6	13.6								19.5	19.5		
17				8.2		8.2	11.2	1.9	9.3							19.4	18.0	1.4	
18				6.3		6.3	8.7		8.7							19.5	13.0	6.5	
19				8.1		8.1	8.5	1.0	7.5							19.5	19.5		
20				5.3		5.3	7.9	1.9	6.0							19.5	19.5		
21				8.3	1.9	6.4	6.6	0.5	6.1							19.6	19.6		
22				10.9		10.9	6.3	6.3								22.3	22.3		
23				7.2		7.2	4.3	4.3								23.7	23.7		
24				4.6		4.6	1.7	1.7								23.8	23.8		
25	2.7		2.7	4.4		4.4										23.8	23.8		
26	3.0		3.0	3.6		3.6										23.0	23.0		
27	1.9		1.9	2.7		2.7										23.3	23.3		
28	1.5		1.5	1.9		1.9										23.2	23.2		
29	4.6		4.6	3.2		3.2										22.4	22.4		
30	8.2		8.2	3.7	3.7											22.3	22.3		
31	9.1		9.1	3.1	1.7	1.4										15.8	15.8		
Total	31.0		31.0	464.9	150.7	314.2	164.9	86.2	78.7							415.5	399.8	15.7	
Acre-feet		61			922			327									824		4434
Priority Diverted					299			171									793		2649
Apport Diverted		61			623			156									31		1545
Appor diverted to date		1035			1658			1814			1814			1814			1845		1845
TBI acreage		3882.72			3882.72			3820.22			3820.22			3794.12			3794.12		3794.12
Apportioned		5242			5242			5157			6189			6146			6146		6146
Duty		0.02			0.24			0.10						0.01			0.22		1.18

Diversion from North side of Gila River in NW¼NE¼, Sec.8, T.7 S., R.26 E. Water-stage recorder and 8 ft. Parshall flume located in SW¼SW¼, Sec.4, T.7 SS., R.26 E.
Record good

c:\lotus\wk\123\yearly\2002\Safford.123

2002

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	10.9	10.9					16.8	13.7	3.1	12.1	12.1		4.0		4.0			
2	10.8	10.8					16.1	12.7	3.4	13.9	13.9		1.1		1.1			
3	11.0	11.0					16.9	12.7	4.2	15.3	15.3							
4	10.7	10.7					17.6	13.7	3.9	12.8	12.8		3.6		3.6			
5	10.2	10.2					17.2	10.1	7.1	12.8	12.8		4.4		4.4			
6	10.2	10.2					16.5	10.1	6.4	13.7	13.7		0.7		0.7			
7	4.2	4.2					16.7		16.7	12.6	12.6		0.2		0.2			
8							16.0	4.0	12.0	13.5	13.5		0.8		0.8			
9							15.9	7.3	8.6	13.8	13.8							
10							14.8		14.8	13.3	13.3							
11							12.7		12.7	12.4	12.4							
12				14.7	14.7		13.5		13.5	12.7	12.7							
13				23.1	23.1		17.4		17.4	11.4	11.4							
14				23.9	23.9		15.5		15.5	10.0	10.0							
15				22.5	22.5		15.6		15.6	9.1	9.1							
16				21.1	21.1		16.4		16.4	9.1	9.1							
17				20.9	20.9		16.4		16.4	9.5	9.5							
18				24.7	24.7		17.1	4.0	13.1	9.3	9.3							
19				28.8	25.5	3.3	17.5	10.1	7.4	9.7		9.7						
20				24.4	19.1	5.3	17.6	7.3	10.3	9.1		9.1						
21				17.8	17.8		16.0		16.0	8.6		8.6						
22				14.4	14.4		16.1	4.0	12.1	8.2		8.2						
23				22.1	14.5	7.6	15.8		15.8	8.8		8.8						
24				19.8	18.1	1.7	15.5		15.5	6.6		6.6						
25				18.6	14.5	4.1	15.2	15.2		8.9		8.9						
26				21.9	17.9	4.0	15.6	15.6		5.4		5.4						
27				18.8	15.3	3.5	15.3	15.3		8.6		8.6						
28				18.8	16.8	2.0	15.4	15.4		6.6		6.6						
29							15.3	14.6	0.7	4.1		4.1						
30							15.2	15.2		3.8		3.8						
31							12.7	12.7										
Total	68.0	68.0		356.3	324.8	31.5	492.3	213.7	278.6	303.7	217.3	86.4	14.8		14.8			
Acre-feet		135			707			976			602			29				
Priority Diverted		135			644			424			431							
Apport Diverted					62			553			171			29				
Appor diverted to date					62			615			786			815			815	
TBI acreage		2278.34			2278.34			2296.34			2296.34			2296.34			2296.34	
Apportioned		2826			3078			3103			3103			3103			3103	
Duty		0.06			0.31			0.42			0.26			0.01				

DAY	JUL			AUG			SEP			OCT			NOV			DEC			Totals
	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	
1				11.4		11.4	11.0	11.0								17.4	17.4		
2				6.1		6.1	12.4		12.4							18.0	15.4	2.6	
3				12.4		12.4	12.6		12.6							18.3		18.3	
4				24.2		24.2	13.2		13.2							18.5	15.4	3.1	
5				19.0	10.1	8.9	10.0		10.0							18.4	15.4	3.0	
6				23.4	4.0	19.4	7.9		7.9							18.1	18.0	0.1	
7				28.5	13.7	14.8	6.9		6.9	1.9		1.9				18.1	7.3	10.8	
8				27.6	27.6		6.5		6.5	10.6	10.6					18.0	11.8	6.2	
9				19.9	19.9		2.0		2.0	14.8	14.8					18.0	12.7	5.3	
10				22.4	18.0	4.4	6.3		6.3	14.4	14.4					18.0	11.8	6.2	
11				25.2	20.2	5.0	10.4		10.4	14.1	14.1					18.0	18.0		
12				23.9	18.0	5.9	12.9	12.9		13.5	13.5					18.0	15.4	2.6	
13				14.9	14.9		14.4	14.4		12.8	12.8					17.8	16.9	0.9	
14				7.2		7.2	15.0	15.0		3.4	3.4					17.4	16.9	0.5	
15				15.8		15.8	14.9	14.9								15.9	15.9		
16				10.5		10.5	14.8	14.8								15.6	15.6		
17				13.0		13.0	14.6	6.9	7.7							16.7	16.7		
18				15.9		15.9	14.1		14.1				12.6	12.6		18.5	18.0	0.5	
19				8.6		8.6	13.1		13.1				17.5	17.5		18.8	18.8		
20				8.8		8.8	13.4	6.9	6.5				17.2	17.2		18.8	18.8		
21				16.2	7.3	8.9	12.5		12.5				17.6	17.6		19.1	19.1		
22				14.2		14.2	17.3	14.6	2.7				17.6	17.6		19.1	19.1		
23				3.7		3.7	12.3	12.3					17.6	17.6		18.3	18.3		
24				14.3		14.3	3.4	3.4					18.0	18.0		18.0	18.0		
25	4.3		4.3	10.2		10.2	5.4	5.4					16.3	16.3		18.2	18.2		
26	6.7		6.7	9.0		9.0	5.3		5.3				15.7	15.7		18.1	18.1		
27	6.7		6.7	8.1		8.1	3.2		3.2				16.9	16.9		18.3	18.3		
28	4.6		4.6	7.5		7.5	1.6		1.6				17.5	17.5		9.9	9.9		
29	11.0		11.0	9.6		9.6	1.4		1.4				17.3	17.3					
30	14.7		14.7	8.3	8.3								17.2	17.2					
31	15.2		15.2	8.6	4.0	4.6													
Total	63.2		63.2	448.1	188.0	282.1	288.8	132.5	156.3	85.5	83.6	1.9	218.0	219.0		496.3	436.2	60.1	
Acre-feet		125			889			573			170			434			962		5622
Priority Diverted					329			263			168			434			863		3689
Apport Diverted		125			560			310			4						119		1933
Appor diverted to date		940			1500			1810			1814			1814			1933		1933
TBI acreage		2296.34			2296.34			2180.04			2180.04			2180.04			2296.34		2296.34
Apportioned		3103			3103			2943			3532			3532			3723		3723
Duty		0.05			0.39			0.34			0.08			0.20			0.32		2.46

Diversion from South side of Gila River in NE¼NW¼, Sec.1, T.7 S., R.2E. Water-stage recorder and 8 ft. Parshall flume located in NW¼SW¼, Sec.14., T.6 S.,m R.1E., which measures combined flow of Smithville and Dodge-Nevada Canals. Segregation made by Watermaster

Record good

c:\lotus\wk\123\yearly\2002\Safford.123

2002

DODGE-NEVADA CANAL: 2,516.54 acres

Mean daily diversions, cubic feet per second

	JAN			FEB			MAR			APR			MAY			JUN		
DAY	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.
1	20.0	20.0					13.7	7.4	6.3	8.1	8.1		1.8		1.8			
2	20.0	20.0					13.7	6.3	7.4	6.2	6.2		1.7		1.7			
3	20.0	20.0					13.7	6.3	7.4	6.8	6.8		1.0		1.0			
4	6.5	6.5					13.7	7.4	6.3	7.4	7.4		1.7		1.7			
5							13.7	4.2	9.5	7.4	7.4		1.8		1.8			
6							13.7	4.2	9.5	7.4	7.4		1.8		1.8			
7							13.7	1.1	12.6	7.4	7.4		1.4		1.4			
8							13.7	1.8	11.9	7.4	7.4							
9							13.7	3.0	10.7	7.4	7.4							
10							13.7	1.1	12.6	7.4	7.4							
11							12.6	1.1	11.5	6.7	6.7							
12				12.4	12.4		9.7	1.0	8.7	6.3	6.3							
13				17.5	16.9	0.6	11.1	0.9	10.2	5.3	5.2	0.1						
14				17.5	17.5		12.1	0.9	11.2	4.2	4.2							
15				17.5	17.5		11.0		11.0	4.2	4.2							
16				17.5	17.5		10.5		10.5	4.2	4.2							
17				17.5	17.5		10.5		10.5	4.2	4.2							
18				16.0	16.0		11.5	1.8	9.7	4.2	4.2							
19				15.2	15.2		12.1	4.2	7.9	4.2		4.2						
20				15.2	14.0	1.2	11.2	3.0	8.2	3.9		3.9						
21				15.2	14.2	1.0	10.5	1.1	9.4	3.6		3.6						
22				11.3	11.3		10.5	1.8	8.7	3.5		3.5						
23				11.1	8.5	2.6	10.5	1.1	9.4	3.7		3.7						
24				13.6	13.6		10.5	1.1	9.4	3.9		3.9						
25				12.6	8.5	4.1	10.1	10.1		3.2		3.2						
26				12.6	12.6		9.5	9.5		1.8		1.8						
27				13.7	9.5	4.2	9.5	9.5		1.8		1.8						
28				13.7	10.5	3.2	9.5	9.5		1.8		1.8						
29							9.5	8.5	1.0	1.8		1.8						
30							9.5	9.5		1.8		1.8						
31							9.5	9.5										
Total	86.5	86.5		260.1	233.2	16.9	366.4	126.9	231.5	147.2	112.1	35.1	11.2		11.2			
Acre-feet		132			466			711			292			22				
Priority Diverted		132			463			252			222							
Apport Diverted					34			459			70			22				
Appor diverted to date					34			493			563			585			585	
TBI acreage		2391.44			2391.44			2391.44			2391.44			2391.44			2391.44	
Apportioned		2985			3228			3228			3228			3228			3228	
Duty		0.06			0.21			0.30			0.12			0.01				

	JUL			AUG			SEP			OCT			NOV			DEC			
DAY	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Totals
1				10.5		10.5	4.0	4.0								15.0	15.0		
2				10.0		10.0	4.5		4.5							15.0	9.4	5.6	
3				5.9		5.9	5.1		5.1							15.0		15.0	
4				7.9		7.9	5.1		5.1							15.0	9.4	5.6	
5				13.7	4.2	9.5	5.1		5.1							15.0	9.4	5.6	
6				23.7	1.8	21.9	4.5		4.5							15.0	12.5	2.5	
7				29.9	7.4	22.5	3.7		3.7							15.0	3.0	12.0	
8				29.9	29.9		8.9		8.9							15.0	5.1	9.9	
9				25.9	15.2	10.7	8.2		8.2							15.0	6.2	8.8	
10				21.2	12.7	8.5	3.0		3.0							15.0	5.1	9.9	
11				18.0	14.2	3.8	4.2		4.2							15.0	13.5	1.5	
12				19.4	12.7	6.7	15.4	15.4								15.0	9.4	5.6	
13				14.9	9.5	5.4	20.0	20.0								15.0	11.4	3.6	
14				7.2		7.2	20.0	20.0								15.0	10.4	4.6	
15				7.7		7.7	20.0	20.0								15.0	13.5	1.5	
16				8.3		8.3	20.0	20.0								15.0	13.5	1.5	
17				7.4		7.4	20.0	3.0	17.0							14.4	13.5	0.9	
18				7.4		7.4	20.0		20.0							13.8	12.5	1.3	
19				5.7		5.7	20.0	1.1	18.9							13.8	13.8		
20				4.4		4.4	20.0	3.0	17.0							13.8	13.8		
21				7.6	3.0	4.6	20.0		20.0							13.8	13.8		
22				10.5		10.5	13.3	9.4	3.9							13.8	13.8		
23				9.4		9.4	9.4	9.4								14.6	14.6		
24				2.7		2.7	7.3	7.3								15.0	15.0		
25	1.9		1.9	3.9		3.9	3.0	3.0					9.3	9.3		15.0	15.0		
26	4.1		4.1	4.0		4.0	3.0		3.0				13.5	13.5		15.0	15.0		
27	2.3		2.3	3.0		3.0	2.1		2.1				14.2	14.2		15.0	15.0		
28	1.8		1.8	3.0		3.0	1.8	0.9	0.7				15.0	15.0		15.0	15.0		
29	5.5		5.5	4.2		4.2	1.8		1.8				15.0	15.0		14.7	14.7		
30	8.1		8.1	4.6	4.6								15.0	13.8	1.2	14.4	14.4		
31	8.5		8.5	4.0	1.8	2.2										14.3	14.3		
Total	32.2		32.2	335.9	117.0	218.9	293.0	136.5	156.5				82.0	80.8	1.2	456.4	361.0	95.4	
Acre-feet		64			666			581						163			905		4032
Priority Diverted					232			271						160			716		2448
Apport Diverted		64			434			310						2			189		1584
Appor diverted to date		649			1083			1393			1393			1395			1584		1584
TBI acreage		2391.44			2391.44			2354.74			2354.74			2354.74			2354.74		2354.74
Apportioned		3228			3228			3179			3815			3815			3815		3815
Duty		0.03			0.28			0.26						0.07			0.38		1.71

c:\lotus\wk\123\yearly\2002\Safford.123

2002

CURTIS CANAL: 1,971.70 acres

Mean daily diversions, cubic feet per second

DAY	JAN			FEB			MAR			APR			MAY			JUN		
	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.
1	7.5	7.5		17.0	17.0		20.5	13.8	6.7	18.6	18.1	0.5						
2	7.5	7.5		18.4	18.4		19.4	11.5	7.9	19.2	18.1	1.1						
3	7.6	7.6		20.3	20.3		19.8	11.5	8.3	19.5	18.1	1.4						
4	8.1	8.1		20.1	20.1		20.9	13.8	7.1	19.3	14.9	4.4						
5	8.8	8.8		19.9	19.9		21.7	1.2	20.5	18.3	13.8	4.5						
6	9.0	9.0		19.6	19.6		21.5	1.2	20.3	17.3	16.2	1.1						
7	7.4	7.4		19.6	19.6		20.0		20.0	17.0	13.8	3.2						
8	3.0	3.0		19.7	19.7		19.3		19.3	15.0	15.0							
9				19.4	19.4		19.6	0.4	19.2	16.9	16.9							
10				17.6	17.6		19.6		19.6	16.7	13.8	2.9						
11				12.4	12.4		18.9		18.9	16.1	13.8	2.3						
12				15.0	15.0		17.5		17.5	14.7	11.5	3.2	1.7		1.7			
13				18.0	18.0		17.7		17.7	15.8	4.3	11.5	3.5		3.5			
14				19.2	19.2		17.8		17.8	18.0	13.8	4.2	1.5		1.5			
15				18.1	18.1		17.4		17.4	18.4	13.8	4.6	2.1		2.1			
16				19.7	19.7		16.9		16.9	16.8	11.5	5.3	2.7		2.7			
17				21.5	21.5		17.1		17.1	15.9	11.5	4.4	2.0		2.0			
18				21.0	21.0		17.5		17.5	16.8	11.5	5.3						
19				20.7	20.7		18.7	1.2	17.5	17.0		17.0						
20				20.3	18.1	2.2	21.6	0.4	21.2	14.0		14.0						
21	10.2	10.2		21.3	18.2	3.1	21.7		21.7	14.9		14.9						
22	19.7	19.7		20.6	18.2	2.3	19.0		19.0	17.1		17.1						
23	19.4	19.4		20.2	14.9	5.3	20.7		20.7	18.4		18.4						
24	16.8	16.8		21.1	18.1	3.0	21.0		21.0	10.4		10.4						
25	18.4	18.4		19.9	14.9	5.0	21.2	16.7	4.5	0.5		0.5						
26	18.2	18.2		20.2	18.1	2.1	21.6	18.1	3.4									
27	20.2	20.2		21.4	16.2	5.2	21.4	18.1	3.3									
28	19.1	19.1		21.2	16.7	4.5	20.6	16.2	4.4									
29	19.1	19.1					19.9	14.9	5.0									
30	22.0	22.0					18.9	16.2	2.7									
31	20.5	20.5					18.3	16.7	1.6									
Total	262.5	262.5		543.3	510.6	32.7	607.6	171.9	436.7	401.6	249.4	152.2	13.5		13.5			
Acre-feet		521			1078			1205			797			27				
Priority Diverted		521			1013			341			496							
Apport Diverted					65			864			302			27				
Appor diverted to date					65			929			1231			1258			1258	
TBI acreage		1662.75			1750.25			1750.25			1750.25			1750.25			1750.25	
Apportioned		2062			2363			2363			2363			2363			2363	
Duty		0.31			0.60			0.69			0.46			0.02				

DAY	JUL			AUG			SEP			OCT			NOV			DEC			Totals
	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	
1				11.5		11.5	2.4	2.4											
2				11.1		11.1	4.7		4.7										
3				6.7		6.7	2.8		2.8										
4				13.8		13.8	3.4		3.4										
5				18.9	1.2	17.7	2.3		2.3										
6				18.0		18.0	2.0		2.0										
7				21.0	13.8	7.2	1.9		1.9	5.6		5.6							
8				23.4	21.9	1.5	4.6		4.6	10.9	10.9								
9				16.5	16.5		2.3		2.3	3.7	3.7								
10				18.5	18.1	0.4	2.7		2.7	2.1	2.1								
11				19.7	18.2	1.5	8.2		8.2										
12				24.7	18.1	6.6	16.4	16.4											
13				20.1	16.2	3.9	17.0	17.0											
14				14.8		14.8	15.7	15.7											
15				13.6		13.6	18.5	18.5											
16				13.8		13.8	12.5	12.5											
17				12.6		12.6	13.1	0.3	12.8										
18				13.3		13.3	16.1		16.1										
19				11.7		11.7	9.6		9.6										
20				7.7		7.7	4.6	0.3	4.3										
21				13.8	0.4	13.4	3.3		3.3										
22				11.9		11.9	2.8	2.8											
23				10.9		10.9	3.8	3.8											
24				16.1		16.1													
25	1.1		1.1	14.3		14.3													
26	4.6		4.6	8.5		8.5													
27				10.3		10.3													
28				6.1		6.1													
29	9.6		9.6	4.6		4.6													
30	14.0		14.0	4.4	4.3	0.1													
31	14.3		14.3	2.9		2.9													
Total	43.6		43.6	415.2	128.7	286.5	170.7	89.7	81.0	22.3	16.7	5.6							
Acre-feet		86			824			339			44								4820
Priority Diverted					255			178			33								2836
Apport Diverted		86			568			161			11								2064
Appor diverted to date		1344			1912			2073			2084			2084			2084		2064
TBI acreage		1750.25			1750.25			1597.25			1597.25			1597.25			1597.25		1597.25
Apportioned		2363			2363			2156			2588			2588			2588		2588
Duty		0.05			0.47			0.46			0.03								3.06

Diversions from North side of Gila River in SW¼SW¼, Sec.7, T.6 S., R.26 E. Water-stage recorder and 8 ft. Parshall flume located in NW¼SE¼, Sec.12, T.6 S., R.24 E.
Record good

c:\lotus\wk\123\yearly\2002\Safford.123

2002

FORT THOMAS CANAL: 3,155.70 acres

Mean daily diversions, cubic feet per second

	JAN			FEB			MAR			APR			MAY			JUN		
DAY	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.
1				19.8	19.8		19.9	4.2	15.7	17.4	8.9	8.5	1.1		1.1	0.4		0.4
2				20.0	20.0		19.7	4.2	15.5	13.6	8.4	5.2	1.1		1.1	0.4		0.4
3				20.0	20.0		19.8	4.2	15.6	14.6	8.4	6.2	1.2		1.2			
4				19.9	19.9		21.1	4.2	16.9	16.1	5.3	10.8	1.1		1.1			
5				20.2	20.2		22.7	1.5	21.2	16.4	4.2	12.2	0.5		0.5			
6				20.0	20.0		21.1	1.5	19.6	14.3	5.3	9.0	0.8		0.8			
7				19.4	19.4		19.3	1.0	18.3	16.8	4.2	12.6	1.9		1.9			
8				19.4	19.4		19.4	1.0	18.4	13.6	5.3	8.3	2.9		2.9			
9				19.4	19.4		19.3	1.0	18.3	10.9	5.3	5.6	1.3		1.3			
10				19.7	19.7		19.1	1.0	18.1	10.4	4.2	6.2	1.2		1.2			
11				18.0	18.0		19.1	1.0	18.1	11.4	4.2	7.2	1.8		1.8			
12				14.6	14.6		18.9	1.0	17.9	9.2	4.2	5.0	2.2		2.2			
13				13.6	13.6		19.8	1.0	18.8	9.0	2.7	6.3	1.7		1.7			
14				13.6	13.6		20.7	1.0	19.7	6.8	4.2	2.6	1.0		1.0			
15				13.2	13.2		20.5		20.5	7.3	4.2	3.1	0.6		0.6			
16				12.7	12.7		19.1		19.1	10.2	4.2	6.0	1.0		1.0			
17				12.9	12.9		19.5		19.5	7.6	4.2	3.4	0.8		0.8			
18				12.9	12.9		20.3	1.0	19.3	6.2	4.2	2.0						
19				12.7	12.7		18.4	1.5	16.9	4.8		4.8	0.3		0.3			
20				12.2	12.2		16.7	1.0	15.7	4.3		4.3	0.3		0.3			
21				10.0	10.0		17.9	1.0	16.9	3.6		3.6						
22				8.4	8.4		20.1	1.0	19.1	3.1		3.1						
23				16.3	5.3	11.0	17.4	1.0	16.4	1.6		1.6	0.4		0.4			
24	7.9	7.9		19.5	18.1	1.4	15.8	1.0	14.8	0.5		0.5						
25	12.1	12.1		17.9	5.3	12.6	17.8	5.5	12.3	1.1		1.1						
26	12.1	12.1		20.0	6.0	14.0	15.8	6.0	9.8	0.9		0.9						
27	12.1	12.1		19.7	5.3	14.4	16.9	6.0	10.9	0.9		0.9						
28	12.1	12.1		19.6	5.5	14.1	18.0	5.3	12.7	0.7		0.7	0.5		0.5			
29	12.3	12.3					18.8	5.3	13.5	0.9		0.9	0.4		0.4			
30	12.4	12.4					19.8	5.3	14.5	1.1		1.1	0.4		0.4			
31	16.8	16.8					21.5	5.5	16.0									
Total	97.8	97.8		466.6	398.1	67.5	594.2	74.2	520.0	236.3	91.6	143.7	24.5		24.5	0.8		0.8
Acre-feet		194			924			1179			467			49			2	
Priority Diverted		194			790			147			182							
Apport Diverted					134			1031			285			49			2	
Appor diverted to date					134			1165			1450			1499			1501	
TBI acreage		2884.35			2884.35			2884.35			2884.35			2878.95			2878.95	
Apportioned		3577			3894			3894			3894			3887			3887	
Duty		0.07			0.32			0.41			0.16			0.02			0.00	

	JUL			AUG			SEP			OCT			NOV			DEC			
DAY	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Totals
1				5.1		5.1	2.0	2.0					4.8	4.8		23.9	23.9		
2				4.7		4.7	2.3		2.3				1.2	1.2		24.3	5.3	19.0	
3				3.5		3.5	2.2		2.2	0.4		0.4	0.7	0.7		24.4	0.5	23.9	
4				5.2		5.2	2.1		2.1	0.3		0.3	3.6	3.6		24.8	5.3	19.5	
5				19.1	1.5	17.6	2.1		2.1				0.8	0.8		24.1	5.3	18.8	
6				28.0	1.0	27.0	2.0		2.0				0.5	0.5		25.1	6.0	19.1	
7				32.3	4.2	28.1	2.0		2.0	9.7	0.8	8.9	0.4	0.4		24.9	1.0	23.9	
8				34.9	34.9		2.2		2.2	17.9	4.1	13.8	0.4	0.4		25.0	2.7	22.3	
9				29.5	25.7	3.8	2.2		2.2	9.8	9.8		0.6	0.6		24.6	4.2	20.4	
10				22.0	6.0	16.0	2.3		2.3	10.9	10.9		0.6	0.6		24.3	2.7	21.6	
11				14.2	14.2		0.6		0.6	17.7	17.7		3.7	3.7		24.2	8.4	15.8	
12				26.5	6.0	20.5	8.0	8.0		23.1	23.1		2.2	2.2		24.1	5.3	18.8	
13				22.8	5.3	17.5	11.5	11.5		24.7	9.6	15.1	3.1	3.1		23.9	6.0	17.9	
14				9.3		9.3	6.7	6.7		19.6	3.3	16.2	2.6	2.6		23.0	5.5	17.5	
15				6.8		6.8	4.5	4.5		11.3	0.8	10.5	2.2	2.2		20.9	8.4	12.5	
16				5.4		5.4	4.9	4.9		5.8	2.1	3.7	2.6	2.6		16.6	8.8	7.8	
17				3.7		3.7	4.8	0.8	4.0	3.4		3.4	2.2	2.2		12.7	8.4	4.3	
18				4.1		4.1	4.6		4.6	2.2		2.2	2.1	2.1		16.2	6.0	10.2	
19				3.0		3.0	4.6	0.8	3.8	1.8		1.8	4.3	4.3		17.4	17.4		
20				2.6		2.6	4.6	0.8	3.8	2.1	2.1		2.7	2.7		20.1	13.6	6.5	
21				5.1	1.0	4.1	4.5	0.4	4.1	5.7	4.7	1.0	1.4	1.4		19.4	13.6	5.8	
22				4.8		4.8	4.4	4.1	0.3	2.3	2.3		1.6	1.6		19.4	19.4		
23				4.2		4.2	9.0	4.1	4.9	1.2	1.2		5.9	5.9		19.4	19.4		
24				3.2		3.2	3.2	3.2		0.9	0.9		8.9	8.9		21.6	21.6		
25	1.1		1.1	2.7		2.7	1.9	1.9		1.2	0.8	0.4	24.4	9.6	14.8	24.1	24.1		
26	1.7		1.7	1.8		1.8	1.6		1.6	1.8	1.8		19.7	19.7		24.4	24.4		
27	1.0		1.0	2.0		2.0				1.4	1.4		19.8	19.8		24.3	24.3		
28	0.8		0.8	3.0		3.0				2.3	2.3		26.0	26.0		24.1	24.1		
29	1.9		1.9	2.8		2.8				1.3	1.3		25.5	25.5		24.3	24.3		
30	4.2		4.2	2.8	2.7	0.1				0.7	0.7		24.9	9.6	15.3	24.3	24.3		
31	5.1		5.1	2.0	1.0	1.0				0.5	0.5					16.5	16.5		
Total	15.8		15.8	317.1	103.5	213.6	100.6	53.7	47.1	179.9	102.2	77.7	199.4	169.3	30.1	686.3	380.7	305.6	
Acre-feet		31			629			200			357			396			1361		5788
Priority Diverted					205			107			203			336			755		2919
Apport Diverted		31			424			93			154			60			606		2869
Appor diverted to date		1532			1956			2049			2203			2263			2869		2869
TBI acreage		2878.95			2878.95			2235.95			2235.95			2235.95			2878.95		2878.95
Apportioned		3887			3887			3019			3622			3622			4664		4664
Duty		0.01			0.22			0.44			0.16			0.18			0.03		2.01

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

c:\lotus\wk\123\yearly\2002\Safford.123

2002

SAN CARLOS APACHE TRIBE: 1,000 acres

Mean daily diversions, cubic feet per second

	JAN				FEB				MAR				APR				MAY				JUN			
Day	Total	Black Point	Navajo Point	Anderson Flat	Total	Black Point	Navajo Point	Anderson Flat	Total	Black Point	Navajo Point	Anderson Flat	Total	Black Point	Navajo Point	Anderson Flat	Total	Black Point	Navajo Point	Anderson Flat	Total	Black Point	Navajo Point	Anderson Flat
1																	1.5		1.5		2.8		1.1	1.6
2													1.0			1.0	2.6		1.5	1.1	2.5		1.1	1.4
3													2.5		0.9	1.6	2.5		0.9	1.6	2.4		1.1	1.3
4													2.9		1.3	1.6	1.6			1.6	1.9		0.8	1.1
5													2.0		0.9	1.1	1.6			1.6	2.1		0.7	1.4
6																	2.6		1.0	1.6	2.7		1.4	1.3
7																	3.1		1.5	1.6	2.6		1.3	1.3
8													1.9		0.9	1.0	3.1		1.5	1.6	1.9		0.7	1.2
9													2.4		1.3	1.1	2.7		1.5	1.2	1.8		0.6	1.2
10													1.3		1.3		1.3	0.3	1.0		2.1		1.1	1.0
11													1.3		1.3						2.5		1.4	1.1
12													1.3		1.3						2.4		1.3	1.1
13													1.3		1.3		2.1		1.0	1.1	2.4		1.2	1.2
14																	2.6		1.0	1.6	2.2		1.0	1.2
15													0.9		0.9		2.0		0.4	1.6	1.1			1.1
16													1.3		1.3		2.4		0.8	1.6	1.0			1.0
17													1.3		1.3		1.9		0.8	1.1	0.8			0.8
18													1.3		1.3		0.8		0.8		0.4			0.4
19													1.3		1.3		0.8		0.8		0.7		0.3	0.4
20													1.3		1.3		1.5		0.4	1.1	0.3			0.3
21													1.3		1.3		1.7		1.0	0.7	0.3			0.3
22													1.3		1.3		1.4		1.4					
23									1.0			1.0	1.3		1.3		1.4		1.4					
24									1.5			1.5	1.3		1.3		1.5		1.5		0.9		0.4	0.5
25									1.5			1.5	1.3		1.3		1.1		1.1		0.4		0.2	0.2
26									1.6			1.6	1.8	0.5	1.3		0.9		0.9		0.5		0.1	0.4
27									1.5			1.5	1.2	0.8	0.4						0.3		0.1	0.2
28									1.5			1.5	0.8	0.8			2.0		0.9	1.1	0.3		0.1	0.2
29									1.5			1.5	1.5	0.7	0.9		2.1		0.7	1.4	0.3		0.1	0.2
30									0.5			0.5	1.3		1.3		1.7		0.1	1.6	0.2		0.1	0.1
31																	2.2		0.9	1.3				
Total									10.6			10.6	38.5	2.8	28.3	7.4	52.1	0.3	25.7	26.1	39.6		16.2	23.4
Acre-feet									21			21	77	6	56	15	104	1	51	52	78		32	46
Diverted to date									21			21	98	6	56	36	202	7	107	88	280	7	139	134
TBI acreage					313.6	66.6	150.5	96.6	313.6	66.6	150.5	96.6	313.6	66.6	150.5	96.6	313.6	66.6	150.5	96.6	313.6	66.6	150.5	96.6
Duty									0.07			0.22	0.31	0.09	0.37	0.37	0.64	0.11	0.71	0.91	0.89	0.11	0.92	1.39

	JUL				AUG				SEP				OCT				NOV				DEC				
Day	Total	Black Point	Navajo Point	Anderson Flat	Total	Black Point	Navajo Point	Anderson Flat	Total	Black Point	Navajo Point	Anderson Flat	Total	Black Point	Navajo Point	Anderson Flat	Total	Black Point	Navajo Point	Anderson Flat	Total	Black Point	Navajo Point	Anderson Flat	Totals
1	0.6		0.4	0.2	2.4		1.3	1.1	2.4		1.0	1.4					1.8		1.8		2.9	1.3	1.6		
2	0.3		0.1	0.2	2.8		1.3	1.2	1.0		0.4	0.6					1.4		1.4		2.9	1.3	1.6		
3					2.6		1.3	1.3	1.5		0.8	0.7					1.4		1.4		1.2		1.2		
4					2.5		1.3	1.2	2.5		1.3	1.2					1.9		1.9		1.7		1.7		
5	0.3			0.3	2.0		0.8	1.2	2.4		1.3	1.1					2.7	0.8	1.9		1.7		1.7		
6					1.6			1.6	2.2		1.3	0.9					3.1	1.3	1.8		2.6		1.7	0.9	
7	0.1			0.1					2.4		1.3	1.1					3.1	1.3	1.8		2.0		0.7	1.3	
8					0.9		0.9		2.4		1.3	1.1					3.1	1.3	1.8		1.2			1.2	
9					1.3		1.3		2.5		1.3	1.2					3.1	1.3	1.8		2.2		1.0	1.2	
10	0.2			0.2	1.2		1.2		2.5		1.3	1.2					3.1	1.3	1.8		2.7		1.4	1.3	
11	0.1			0.1	1.3		1.3		1.2		0.8	0.8					3.3	1.5	1.8		2.7		1.3	1.4	
12	0.3		0.1	0.2	1.2		1.2										2.4	1.5	0.9		2.3		1.1	1.2	
13					1.2		1.2										1.7	1.7			1.9		0.7	1.2	
14	0.1			0.1	1.3		1.3										1.8	1.8			1.2			1.2	
15					1.2		1.2										1.5	1.5			1.2			1.2	
16	0.1			0.1	1.2		1.2		0.7			0.7					1.9	1.9			1.2			1.2	
17					1.3		1.3		1.9		0.8	1.1					1.9	1.9			1.1			1.1	
18					1.2		1.2		2.6		1.5	1.1					1.8	1.8			1.9		0.8	1.1	
19	1.1		1.1		1.1		1.1		2.6		1.5	1.1					1.4	1.4			1.7		0.5	1.2	
20	0.3		0.3		1.2		1.2		2.6		1.4	1.2					1.4	1.4			1.3			1.3	
21					1.2		1.2		2.5		1.4	1.1					1.8	1.8			1.5			1.5	
22					1.4		1.4		2.5		1.4	1.1			1.1		1.7	1.7			1.4			1.4	
23	0.8		0.4	0.2	1.3		1.3		2.4		1.3	1.1			1.9		1.7	1.7			1.2			1.2	
24	0.5		0.1	0.4	1.4		1.1	0.3	2.4		1.3	1.1			1.7		1.7	1.7			1.3			1.3	
25	0.1			0.1	1.1		1.1		2.4		1.3	1.1			1.7		1.7	1.7			1.6			1.6	
26	1.4		0.9	0.5	1.2		1.1	0.1	2.4		1.3	1.1			1.7		2.8	1.6	1.0		1.6			1.6	
27	2.6		1.4	1.2	1.1		1.1		1.4		0.9	0.5			1.7		3.0	1.4	1.6		1.6			1.6	
28	2.5		1.3	1.2	1.2		1.1	0.1							1.2		3.0	1.4	1.6		1.0			1.0	
29	2.5		1.3	1.2	1.6		1.1	0.5									3.0	1.4	1.6						
30	2.5		1.3	1.2	2.3		1.0	1.3									2.9	1.3	1.6						
31	2.4		1.3	1.1	2.4		1.1	1.3					1.3		1.3										
Total	18.6		10.0	8.6	45.4		34.2	11.2	49.4		28.0	23.4	12.3		12.3		66.9	39.4	27.5		48.7	2.6	17.0	29.1	
Acre-feet	37		20	17	90		68	22	98		52	46	24		24		133	78	55		97	5	34	58	759
Diverted to date	317	7	159	151	407	7	227	173	505	7	279	219	529	7	303	219	662	85	358	219	759	90	392	277	759
TBI acreage	313.6	66.6	150.5	96.6	313.6	66.6	150.5	96.6	311.4	73.4	152.2	85.8	311.4	73.4	152.2	85.8	311.4	73.4	152.2	85.8	270	73.4	110.6	85.8	270.0
Duty	1.01	0.11	1.06	1.56	1.30	0.11	1.51	1.79	1.62	0.10	1.83	2.55	1.70	0.10	1.99	2.55	2.13	1.16	2.35	2.55	2.81	1.23	3.54	3.23	2.81

c:\lotus\wk\123\yearly\2002\Safford.123

2002

ASARCO INCORPORATED

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

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	12.0	14.5	21.0	19.7	21.8	16.3	17.9	17.2	17.9	25.9	20.7	17.9
2	12.0	14.4	20.5	19.4	17.5	13.7	17.6	16.9	17.8	17.9	19.4	17.9
3	12.3	18.2	19.7	18.8	16.1	12.8	16.8	17.0	18.0	17.2	17.5	17.4
4	12.5	20.2	20.0	19.3	15.7	11.9	16.9	17.1	17.5	22.1	14.4	18.8
5	14.5	20.2	20.7	19.3	19.8	9.3	16.5	16.0	16.4	23.0	21.4	17.5
6	14.8	18.1	20.6	19.3	18.9	13.8	17.2	16.7	14.1	21.1	21.0	17.8
7	15.0	18.8	20.3	20.2	18.0	15.5	18.0	16.3	19.9	21.5	20.0	17.0
8	11.4	17.9	20.4	21.3	21.5	22.3	19.0	17.0	18.4	21.3	20.2	13.5
9	15.5	19.7	20.4	20.7	21.5	22.0	19.1	16.9	15.8	21.3	21.8	10.6
10	12.9	20.0	20.1	18.9	21.5	21.1	17.3	18.8	15.5	20.4	18.8	12.3
11	16.5	20.5	19.7	16.8	21.4	14.4	16.8	15.5	12.1	20.7	19.2	10.7
12	16.1	20.9	20.9	19.9	22.1	19.7	17.6	15.9	17.2	23.1	14.8	14.3
13	16.2	20.5	19.0	21.0	22.0	19.4	17.8	17.3	16.9	23.1	14.8	18.5
14	14.3	20.9	19.6	19.3	21.8	17.6	16.5	18.3	16.7	19.9	13.5	17.0
15	10.9	20.5	19.9	20.1	20.8	16.7	12.9	18.8	17.2	17.9	17.2	12.4
16	11.2	20.7	19.4	18.1	16.6	16.5	16.2	17.3	16.7	14.5	20.4	18.2
17	10.5	19.9	21.0	17.6	14.8	16.7	16.4	14.2	16.0	17.0	16.7	18.3
18	13.3	19.1	19.7	21.4	14.9	19.3	16.8	17.6	16.4	12.3	15.8	18.4
19	14.3	18.9	20.7	21.1	15.4	19.8	17.4	18.1	16.4	16.1	20.6	18.5
20	12.9	15.9	17.6	19.5	17.6	18.9	17.0	18.9	17.8	20.0	21.2	18.5
21	13.6	18.3	19.1	16.8	20.0	18.4	16.6	18.3	16.4	17.1	19.9	18.4
22	14.4	19.1	20.6	21.3	21.9	18.6	15.4	18.5	16.9	14.2	15.4	18.4
23	19.3	18.8	19.6	21.1	17.1	19.1	13.5	18.7	16.2	18.0	18.2	18.4
24	15.6	19.9	20.7	20.0	17.1	19.1	13.3	18.4	18.5	13.5	19.1	18.5
25	17.2	20.7	20.5	19.6	20.1	18.2	12.0	18.7	20.6	8.8	18.0	18.4
26	19.0	20.7	20.7	17.9	20.7	16.7	13.8	18.5	21.5	17.1	13.4	17.6
27	20.9	20.0	17.2	22.0	20.6	15.2	16.8	18.3	22.7	11.3	16.2	18.3
28	18.5	21.8	17.5	22.1	19.8	14.2	16.9	18.7	20.7	14.0	19.1	18.2
29	18.6		15.2	22.0	19.9	16.6	17.4	18.4	21.8	18.2	19.1	18.3
30	18.8		17.3	21.9	21.5	15.4	17.9	18.6	19.7	19.3	18.3	18.2
31	18.7		19.6		18.6		17.5	18.8		21.4		18.3
Total CFS	463.7	539.1	609.2	596.4	597	509.2	512.8	545.7	529.7	569.2	546.1	526.5
Total Acre-feet	920	1069	1208	1183	1184	1010	1017	1082	1051	1129	1083	1044
ASARCO Reported Ac-ft												
Reported	922	1069	1212	1172	1165	1007	1020	1081	1050	1131	1077	1045
Reported Year-to-Date	922	1991	3203	4375	5540	6547	7567	8648	9698	10829	11906	12951
Tabulations in Ac-ft												
Allocation diverted	920	1069	1208	1183	1184	1010	1017	1082	1051	1129	1083	1044
Previous Alloc. div	920	920	1989	3197	4380	5564	6574	7591	8673	9724	10853	11936
Alloc. div to date	920	1989	3197	4380	5564	6574	7591	8673	9724	10853	11936	12980
Article_IX_ Allocation	16221	16221	16221	16221	16221	16221	16221	16221	16221	16221	16221	16221
Allocation Remaining	15301	14232	13024	11841	10657	9647	8630	7548	6497	5368	4285	3241

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

c:\lotus\wk\123\yearly\2002\Safford.123

2002

KEARNY ARIZONA: 101.73 acres

Mean daily diversions, cubic feet per second

	JAN			FEB			MAR			APR			MAY			JUN		
DAY	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.
1	0.29	0.29		0.36	0.36		0.45	0.45		0.68	0.68		0.83		0.83	0.99		0.99
2	0.29	0.29		0.36	0.36		0.45	0.45		0.68	0.68		0.83		0.83	0.99		0.99
3	0.29	0.29		0.36	0.36		0.45	0.45		0.68	0.68		0.83		0.83	0.99		0.99
4	0.29	0.29		0.36	0.36		0.45	0.45		0.68	0.68		0.83		0.83	0.99		0.99
5	0.29	0.29		0.36	0.36		0.45	0.45		0.68	0.68		0.83		0.83	0.99		0.99
6	0.29	0.29		0.36	0.36		0.45	0.45		0.68	0.68		0.83		0.83	0.99		0.99
7	0.29	0.29		0.36	0.36		0.45	0.30	0.15	0.68	0.68		0.83		0.83	0.99		0.99
8	0.29	0.29		0.36	0.36		0.45	0.30	0.15	0.68	0.68		0.83		0.83	0.99		0.99
9	0.29	0.29		0.36	0.36		0.45	0.10	0.35	0.68	0.68		0.83		0.83	0.99		0.99
10	0.29	0.29		0.36	0.36		0.45	0.30	0.15	0.68	0.68		0.83		0.83	0.99		0.99
11	0.29	0.29		0.36	0.36		0.45	0.30	0.15	0.68	0.68		0.83		0.83	0.99		0.99
12	0.29	0.29		0.36	0.36		0.45	0.10	0.35	0.68	0.68		0.83		0.83	0.99		0.99
13	0.29	0.29		0.36	0.36		0.45	0.10	0.35	0.68	0.68		0.83		0.83	0.99		0.99
14	0.29	0.29		0.36	0.36		0.45	0.10	0.35	0.68	0.68		0.83		0.83	0.99		0.99
15	0.29	0.29		0.36	0.36		0.44	0.10	0.34	0.68	0.30	0.38	0.83		0.83	0.99		0.99
16	0.29	0.29		0.36	0.36		0.44	0.10	0.34	0.68	0.68		0.83		0.83	0.99		0.99
17	0.29	0.29		0.36	0.36		0.44		0.44	0.68	0.68		0.83		0.83	0.98		0.98
18	0.29	0.29		0.36	0.36		0.44		0.44	0.68	0.68		0.83		0.83	0.99		0.99
19	0.29	0.29		0.36	0.36		0.44		0.44	0.68	0.68		0.83		0.83	0.99		0.99
20	0.29	0.29		0.36	0.36		0.44	0.30	0.14	0.68		0.68	0.83		0.83	0.99		0.99
21	0.29	0.29		0.35	0.35		0.44	0.30	0.14	0.69		0.69	0.83		0.83	0.98		0.98
22	0.30	0.30		0.35	0.35		0.44	0.30	0.14	0.69		0.69	0.83		0.83	0.98		0.98
23	0.30	0.30		0.35	0.35		0.44	0.10	0.34	0.69		0.69	0.83		0.83	0.98		0.98
24	0.30	0.30		0.35	0.35		0.44	0.30	0.14	0.69		0.69	0.83		0.83	0.98		0.98
25	0.30	0.30		0.35	0.35		0.44	0.10	0.34	0.69		0.69	0.83		0.83	0.98		0.98
26	0.30	0.30		0.35	0.35		0.44	0.10	0.34	0.69		0.69	0.83		0.83	0.98		0.98
27	0.30	0.30		0.35	0.35		0.44	0.44		0.69		0.69	0.83		0.83	0.98		0.98
28	0.30	0.30		0.35	0.35		0.44	0.44		0.69		0.69	0.83		0.83	0.98		0.98
29	0.30	0.30					0.44	0.44		0.69		0.69	0.83		0.83	0.98		0.98
30	0.30	0.30					0.44	0.44		0.69		0.69	0.83		0.83	0.98		0.98
31	0.30	0.30					0.44	0.44					0.83		0.83			
Total	9.1	9.1		10.0	10.0		13.8	8.2	5.6	20.5	12.5	8.0	25.7		25.7	29.6		29.6
Acre-feet		18			20			27			41			51			59	
Priority Diverted		18			20			16			25							
Apport Diverted								11			16			51			59	
Appor diverted to date								11			27			78			137	
TBI acreage		101.73			101.73			101.73			101.73			101.73			101.73	
Apportioned		126			137			137			137			137			137	
Duty		0.18			0.20			0.27			0.40			0.50			0.58	

	JUL			AUG			SEP			OCT			NOV			DEC			
DAY	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Total	Priority	Apport.	Totals
1	0.92		0.92	0.84	0.84		0.67	0.30	0.37	0.59		0.59	0.40	0.40		0.15	0.15		
2	0.92		0.92	0.84		0.84	0.67	0.30	0.37	0.59		0.59	0.40	0.40		0.15	0.15		
3	0.92		0.92	0.84		0.84	0.67	0.67		0.59		0.59	0.40	0.40		0.15	0.15		
4	0.92		0.92	0.84		0.84	0.67		0.67	0.59		0.59	0.40	0.40		0.15	0.15		
5	0.92		0.92	0.84		0.84	0.67		0.67	0.59		0.59	0.40	0.40		0.15		0.15	
6	0.92		0.92	0.84		0.84	0.67		0.67	0.59		0.59	0.40	0.40		0.15	0.15		
7	0.92		0.92	0.84	0.30	0.54	0.67		0.67	0.59		0.59	0.40	0.40		0.15	0.15		
8	0.92		0.92	0.84	0.30	0.54	0.67		0.67	0.59		0.59	0.40	0.40		0.15	0.15		
9	0.92		0.92	0.84	0.84		0.67		0.67	0.59	0.10	0.49	0.40	0.40		0.15	0.15		
10	0.92		0.92	0.84	0.84		0.67		0.67	0.59	0.59		0.40	0.40		0.15	0.15		
11	0.92		0.92	0.84	0.84		0.67		0.67	0.59	0.59		0.40	0.40		0.15	0.15		
12	0.92		0.92	0.84	0.84		0.67		0.67	0.59	0.59		0.40	0.40		0.15	0.15		
13	0.92		0.92	0.84	0.84		0.67		0.67	0.59	0.59		0.40	0.40		0.15	0.15		
14	0.92		0.92	0.84	0.84		0.67	0.67		0.59	0.59		0.40	0.40		0.15	0.15		
15	0.92		0.92	0.84	0.84		0.67	0.67		0.59	0.59		0.40	0.40		0.15	0.15		
16	0.92		0.92	0.84		0.84	0.67	0.67		0.59	0.59		0.40	0.40		0.15	0.15		
17	0.92		0.92	0.84		0.84	0.67	0.67		0.59	0.10	0.49	0.40	0.40		0.15	0.15		
18	0.92		0.92	0.84		0.84	0.67	0.67		0.59	0.30	0.29	0.40	0.40		0.15	0.15		
19	0.92		0.92	0.84		0.84	0.67	0.30	0.37	0.59		0.59	0.40	0.40		0.15	0.15		
20	0.92		0.92	0.84		0.84	0.67		0.67	0.59		0.59	0.40	0.40		0.15	0.15		
21	0.92		0.92	0.84		0.84	0.67	0.10	0.57	0.59		0.59	0.40	0.40		0.15	0.15		
22	0.92		0.92	0.84		0.84	0.67	0.30	0.37	0.59	0.59		0.40	0.40		0.15	0.15		
23	0.92		0.92	0.84	0.30	0.54	0.67		0.67	0.59	0.59		0.40	0.40		0.15	0.15		
24	0.92		0.92	0.84		0.84	0.67	0.67		0.59	0.59		0.40	0.40		0.15	0.15		
25	0.91		0.91	0.84		0.84	0.67	0.67		0.59	0.59		0.40	0.40		0.15	0.15		
26	0.91		0.91	0.85		0.85	0.67	0.67		0.59	0.59		0.40	0.40		0.15	0.15		
27	0.91		0.91	0.85		0.85	0.67	0.67		0.59	0.30	0.29	0.40	0.40		0.15	0.15		
28	0.91		0.91	0.85		0.85	0.67		0.67	0.59	0.59		0.40	0.40		0.15	0.15		
29	0.91		0.91	0.85		0.85	0.67		0.67	0.59	0.59		0.40	0.40		0.15	0.15		
30	0.91		0.91	0.85		0.85	0.67	0.10	0.57	0.59	0.59		0.40	0.40		0.15	0.15		
31	0.91		0.91	0.85		0.85				0.59	0.59					0.15	0.15		
Total	28.5		28.5	26.1	7.6	18.5	20.1	8.1	12.0	18.3	10.2	8.1	12.0	12.0		4.7	4.5	0.2	
Acre-feet		56			52			40			36			24			9		433
Priority Diverted					16			18			20			24			9		163
Apport Diverted		56			37			24			16								270
Appor diverted to date		193			230			254			270			270			270		270
TBI acreage		101.73			101.73			101.73			101.73			101.73			101.73		101.73
Apportioned		137			137			137			165			165			165		165
Duty		0.55			0.51			0.39			0.36			0.24			0.09		4.26

c:\lotus\wk\123\yearly\2002\Safford.123

TOWN OF KEARNY
Excess diversion of Apportioned Waters

The Town of Kearny drafts upon the underground flow of the Gila River by means of pumps to provide domestic water for its citizens and for such uses as firefighting. Its water right is derived from lands having a priority natural flow right and an apportionment right under Article X of the Gila Decree. In 1962, as clarified in 1967, the Town of Kearny changed the use of the water right from irrigation to domestic and municipal and related uses. This change in use was approved by the Gila Water Commissioner and the Arizona State Land Commissioner.

In 2002, there was virtually no priority water available to the Town of Kearny. What little apportionment that had been made for 2002 was exhausted by the end of July 2002. The Gila Water Commissioner advised the Town of Kearny that he would have to advise the Court of the situation, but would not order that its drafts on the underground flow of the Gila River be terminated at that time on the basis of an assurance from the Town of Kearny that it was working with the Gila River Indian Community (GRIC) and the San Carlos Irrigation and Drainage District (SCIDD), the only parties harmed by the Town's overdrafts, to resolve the situation so that the Town could continue pumping. A Notice Regarding Town of Kearny Diversions was filed with the Court by the Water Commissioner on September 25, 2002 advising the Court and all parties of the situation and that the Town was arranging with GRIC and SCIDD to replace the overdrafts on the underground flow of the Gila River with CAP water. It was the understanding of the Commissioner that the arrangement would be in place prior to the end of 2002. However, an agreement was not concluded by the end of the year 2002 and the Commissioner advised the Town that it had exceeded its allowable drafts upon the River by 91 acre-feet during 2002.

As of January 1, 2003 there was only 297 acre-feet of stored water available for release in San Carlos Reservoir and therefore no apportionment was made for the parties entitled to an apportionment under the Gila Decree. There has also been no priority natural flow available to the Town of Kearny to the date of this Report. The Commissioner has been insistent that an arrangement be concluded forthwith with GRIC and SCIDD, and the Town has advised the Commissioner it is doing its best to conclude such an arrangement. The Commissioner has given the Town notice that unless an arrangement is concluded immediately or an apportionment becomes available to the Town, he will have to notify the Court and seek guidance as to whether he should order the drafts upon the stream terminated.

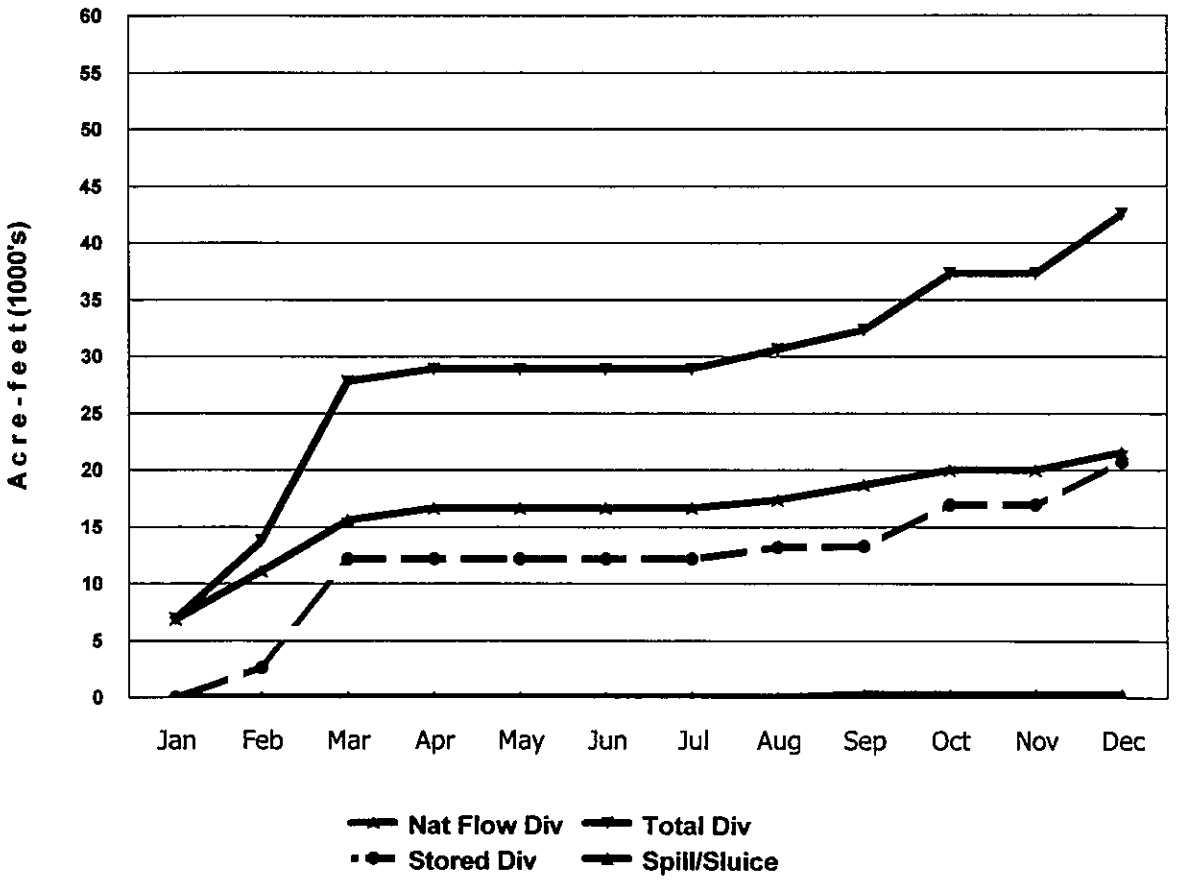
2002

MASS DIAGRAM OF SAN CARLOS PROJECT

DIVERSIONS AT ASHURST-HAYDEN DAM

In Acre-feet

Month	Accumulated Natural Flow Diversions	Accumulated Stored Water Diversions	Monthly Total Diversions	Accumulated Total Diversions	Accumulated Spilled and Sluiced
JAN	6,887	36	6,923	6,923	0
FEB	11,112	2,682	13,794	13,794	0
MAR	15,609	12,213	27,822	27,822	0
APR	16,650	12,251	28,901	28,901	0
MAY	16,672	12,251	28,923	28,923	0
JUN	16,672	12,251	28,923	28,923	0
JUL	16,672	12,251	28,923	28,923	0
AUG	17,382	13,245	30,627	30,627	0
SEP	18,698	13,365	32,063	32,353	290
OCT	20,003	17,003	37,006	37,296	290
NOV	20,003	17,003	37,006	37,296	290
DEC	21,552	20,722	42,274	42,564	290
Graph:	Nat Flow Div	Stored Div		Total Div	Spill/Sluice



c:\lotus\wk\123\yearly\2002\masahd_02.123

SAN CARLOS IRRIGATION PROJECT DIVERSIONS at ASHURST-HAYDEN DAM

Original Decreed 102,090.5 Acres

Mean daily diversions - cubic feet per second

2002

JANUARY

T.B.I. Acres - 37,993.23

2002	Diverted			Passing Dam	
	Total	Stored	Nat Flow	Spill	Sluice
1	157		157		
2	147		147		
3	142		142		
4	141	2	139		
5	148	8	140		
6	150		150		
7	152		152		
8	140		140		
9	136	1	135		
10	132	7	125		
11	134		134		
12	139		139		
13	125		125		
14	120		120		
15	119		119		
16	117		117		
17	116		116		
18	115		115		
19	94		94		
20	81		81		
21	76		76		
22	74		74		
23	71		71		
24	75		75		
25	81		81		
26	80		80		
27	75		75		
28	77		77		
29	87		87		
30	90		90		
31	99		99		
Total	3490	18	3472		
Ac-ft	6923	36	6887		
To Date	6923	36	6887		
Duty	0.18				

FEBRUARY

T.B.I. Acres - 43,949.58

Diverted			Passing Dam	
Total	Stored	Nat Flow	Spill	Sluice
90		90		
91		91		
92		92		
91		91		
88		88		
88		88		
91		91		
93		93		
95		95		
95		95		
96		96		
96		96		
99		99		
100	14	86		
100	26	74		
101	28	73		
98	26	72		
95	38	57		
104	47	57		
110	47	63		
112	48	64		
111	48	63		
118	118			
213	180	33		
238	181	57		
250	181	69		
257	180	77		
252	172	80		
3464	1334	2130		
6871	2646	4225		
13794	2682	11112		
0.13				

MARCH

T.B.I. Acres - 45,465.97

Diverted			Passing Dam	
Total	Stored	Nat Flow	Spill	Sluice
234	155	79		
208	141	67		
207	142	65		
215	143	72		
220	143	77		
226	165	61		
255	184	71		
269	201	68		
299	223	76		
305	224	81		
304	225	79		
305	227	78		
307	228	79		
305	231	74		
309	238	71		
316	241	75		
301	204	97		
259	173	86		
246	171	75		
242	172	70		
241	175	66		
240	176	64		
239	178	61		
224	102	122		
150	50	100		
127	50	77		
115	48	67		
106	48	58		
101	50	51		
100	48	52		
97	49	48		
7072	4805	2267		
14028	9531	4497		
27822	12213	15609		
0.30				

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...

Plate 27 - 1

c:\mydocs\yearly_rpt\2002\ahd.xls

SAN CARLOS IRRIGATION PROJECT DIVERSIONS at ASHURST-HAYDEN DAM

Original Decreed 102,090.5 Acres

Mean daily diversions - cubic feet per second

2002

APRIL

T.B.I. Acres - 47,260.71

2002	Diverted			Passing Dam	
	Total	Stored	Nat Flow	Spill	Sluice
1	88	19	69		
2	64		64		
3	52		52		
4	43		43		
5	37		37		
6	35		35		
7	33		33		
8	28		28		
9	23		23		
10	18		18		
11	16		16		
12	14		14		
13	16		16		
14	11		11		
15	7		7		
16	9		9		
17	10		10		
18	10		10		
19	8		8		
20	6		6		
21	3		3		
22	4		4		
23	4		4		
24	3		3		
25	2		2		
26					
27					
28					
29					
30					
31					
Total	544	19	525		
Ac-ft	1079	38	1041		
To Date	28901	12251	16650		
Duty					

MAY

T.B.I. Acres - 44,310.76

	Diverted			Passing Dam	
	Total	Stored	Nat Flow	Spill	Sluice
1	1		1		
2	4		4		
3	4		4		
4	2		2		
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	11		11		
Ac-ft	22		22		
To Date	28923	12251	16672		
Duty	0.04				

JUNE

T.B.I. Acres - 44,320.26

	Diverted			Passing Dam	
	Total	Stored	Nat Flow	Spill	Sluice
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					
Ac-ft					
To Date	28923	12251	16672		
Duty					

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

Plate 27 - 2

c:\mydocs\yearly_rpt\2002\ahd.xls

SAN CARLOS IRRIGATION PROJECT DIVERSIONS at ASHURST-HAYDEN DAM

Original Decreed 102,090.5 Acres

Mean daily diversions - cubic feet per second

2002

JULY — T.B.I. Acres - 44,144.36

2002	Diverted			Passing Dam	
	Total	Stored	Nat Flow	Spill	Sluice
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 Ac-ft To Date	28923	12251	16672		
Duty					

AUGUST — T.B.I. Acres - 44,218.06

2002	Diverted			Passing Dam	
	Total	Stored	Nat Flow	Spill	Sluice
1					
2					
3					
4					
5					
6	83		83		
7	19		19		
8	20		20		
9	57		57		
10	119	19	100		
11	102	101	1		
12	97	97			
13	93	93			
14	53	53			
15	46	46			
16	45	45			
17	47	47			
18	49		49		
19	23		23		
20	1.5		1.5		
21					
22	0.6		0.6		
23	1.1		1.1		
24	0.7		0.7		
25	0.4		0.4		
26	0.2		0.2		
27					
28					
29	0.6		0.6		
30	0.5		0.5		
31	0.3		0.3		
Total Ac-ft To Date	859	501	358		
Duty	1704	994	710		
	30627	13245	17382		
	0.04				

SEPTEMBER — T.B.I. Acres - 43,680.81

2002	Diverted			Passing Dam	
	Total	Stored	Nat Flow	Spill	Sluice
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11	242		242		
12	73		73	60	
13	2		2	25	
14	1		1	20	
15	1		1	5	
16	10		10	46	
17	98		98		
18	59		59		
19	46		46		
20	39.5	9	30.5		
21	43.5		43.5		
22	30.4		30.4		
23	19		19		
24	6.5		6.5		
25	4.8	3	1.8		
26	4	4			
27	3.9	3.9			
28	3.4	3.4			
29	5.2	5.2			
30	32	32			
31					
Total Ac-ft To Date	724	61	664	146	
Duty	1436	120	1316	290	
	32063	13365	18698	290	
	0.04				

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

Plate 27 - 3

c:\mydocs\yearly_rpt\2002\ahd.xls

SAN CARLOS IRRIGATION PROJECT DIVERSIONS at ASHURST-HAYDEN DAM

Original Decreed 102,090.5 Acres

Mean daily diversions - cubic feet per second

2002

OCTOBER

T.B.I. Acres - 43,680.81

2002	Diverted			Passing Dam	
	Total	Stored	Nat Flow	Spill	Sluice
1	46	46			
2	53	53			
3	68	68			
4	78	78			
5	85	85			
6	87	87			
7	89	89			
8	93	93			
9	105	92	13		
10	112		112		
11	132		132		
12	139	45	94		
13	145	104	41		
14	145	109	36		
15	120	106	14		
16	117	115	2		
17	118	118			
18	116	114	2		
19	116	74	42		
20	72	46	26		
21	49	46	3		
22	42	42			
23	40	40			
24	70	70			
25	84	84			
26	95	30	65		
27	52		52		
28	17		17		
29	4.3		4.3		
30	1.7		1.7		
31	0.9		0.9		
Total	2492	1834	658		
Ac-ft	4943	3638	1305		
To Date	37006	17003	20003	290	
Duty	0.11				

NOVEMBER

T.B.I. Acres - 43,869.46

Diverted			Passing Dam	
Total	Stored	Nat Flow	Spill	Sluice
37006	17003	20003	290	

DECEMBER

T.B.I. Acres - 43,743.26

Diverted			Passing Dam	
Total	Stored	Nat Flow	Spill	Sluice
76	76			
122	122			
133	132	1		
125	125			
128	118	10		
133	133			
153	142	11		
161	142	19		
162	122	40		
144	105	39		
132	103	29		
126	84	42		
114	74	40		
109	74	35		
111	80	31		
118	75	43		
111	55	56		
96	48	48		
89	48	41		
88	13	75		
63		63		
47	4	43		
41		41		
35		35		
20		20		
18		18		
24		24		
28		28		
45		45		
55		55		
2807	1875	932		
5568	3719	1849		
42574	20722	21852	290	
0.13				

Water passing dam estimated by San Carlos Irrigation Project..

Plate 27 - 4

c:\mydocs\yearly_rpt\2002\ahd.xls

DETERMINATION OF PRIORITY WATER

JANUARY 2002

Mean daily discharge - cubic feet per second

		SAN CARLOS RESERVOIR						ASHURST-HAYDEN DAM							DAILY CALL SYSTEM COMPUTED PRIORITY YEAR			
		RELEASES			STORAGE													
2002	River Inflow	Total	Natural Flow	Stored	Inflow minus Outflow	Ac-ft change S C Res.	JAN	Sluiced and/or Spilled	Diverted	Stored	Natural Flow	Gain/Loss Nat.Flow	Nat. Flow Available to Project	JAN	Duncan Virden	Safford	Winkelman	Ashurst-Hayden
DEC 31	123	117	117		6	-149	1		157		157	40	163	1	1924	1924	1924	1924
JAN 1	124	119	119		5	37	2		147		147	28	152	2	"	"	"	"
2	132	120	120		12	-37	3		142		142	22	154	3	"	"	"	"
3	129	131	129	2	-2	-37	4		141	2	139	10	139	4	"	"	"	"
4	129	138	129	9	-9	-74	5		148	8	140	11	140	5	"	"	"	"
5	140	140	140			-38	6		150		150	10	150	6	"	"	"	"
6	146	142	142		4		7		152		152	10	156	7	"	"	"	"
7	149	142	142		7	-37	8		140		140	-2	147	8	"	"	"	"
8	156	157	156	1	-1	-37	9		136	1	135	-21	135	9	"	"	"	"
9	158	166	158	8	-8		10		132	7	125	-33	125	10	"	"	"	"
10	161	137	137		24		11		134		134	-3	158	11	"	"	"	"
11	163	106	106		57		12		139		139	33	196	12	"	"	"	"
12	166	99	99		67	112	13		125		125	26	192	13	"	"	"	"
13	167	99	99		68	74	14		120		120	21	188	14	"	"	"	"
14	170	99	99		71	112	15		119		119	20	190	15	"	"	"	"
15	169	99	99		70	111	16		117		117	18	187	16	"	"	"	"
16	172	100	100		72	149	17		116		116	16	188	17	"	"	"	
17	175	70	70		105	149	18		115		115	45	220	18	"	"	"	"
18	175	53	53		122	112	19		94		94	41	216	19	"	"	"	"
19	173	53	53		120	262	20		81		81	28	201	20	"	"	"	"
20	172	53	53		119	224	21		76		76	23	195	21	"	"	"	"
21	172	53	53		119	225	22		74		74	21	193	22	"	"	"	"
22	173	53	53		120	225	23		71		71	18	191	23	"	"	"	"
23	174	54	54		120	226	24		75		75	21	195	24	"	"	"	"
24	171	54	54		117	264	25		81		81	27	198	25	"	"	"	"
25	165	54	54		111	188	26		80		80	26	191	26	"	"	"	"
26	166	74	74		92	76	27		75		75	1	167	27	"	"	"	"
27	171	85	85		86	189	28		77		77	-8	163	28	"	"	"	"
28	172	85	85		87	151	29		87		87	2	174	29	"	"	"	"
29	173	85	85		88	151	30		90		90	5	178	30	"	"	"	"
30	172	85	85		87	151	31		99		99	14	186	31	"	"	"	"
31	165	85	85		80	76												

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

12% transit loss on daily Stored releases...

Plate 28 - 1

c:\mydocs\yearly_rpt\2002\priority_j-d.xls

DETERMINATION OF PRIORITY WATER

FEBRUARY 2002

Mean daily diversions - cubic feet per second

		SAN CARLOS RESERVOIR						ASHURST-HAYDEN DAM						DAILY CALL SYSTEM COMPUTED PRIORITY YEAR			
		RELEASES			STORAGE												
2002	River Inflow	Total	Natural Flow	Stored	Inflow minus Outflow	Ac-ft change S C Res.	FEB	Sluiced and/or Spilled	Diverted	Stored	Natural Flow	Gain/Loss Nat.Flow	Nat. Flow Available to Project	FEB	Duncan Virden	Safford	Winkelman	Ashurst-Hayden
JAN 31	165	85	85		80	76	1		90		90	5	170	1	1924	1924	1924	1924
FEB 1	157	85	85		72	76	2		91		91	6	163	2	"	"	"	"
2	155	85	85		70	151	3		92		92	7	162	3	"		"	"
3	153	85	85		68	152	4		91		91	6	159	4	"	"	"	"
4	149	85	85		64	153	5		88		88	3	152	5	"	"	"	"
5	143	90	90		53	114	6		88		88	-2	141	6	"	"	"	"
6	136	95	95		41	76	7		91		91	-4	132	7	"	"	"	"
7	126	102	102		24	76	8		93		93	-9	117	8	"	"	"	"
8	119	104	104		15	115	9		95		95	-9	110	9	"	"	"	"
9	116	104	104		12	-39	10		95		95	-9	107	10	1911	"	"	"
10	112	105	105		7	77	11		96		96	-9	103	11	1898	1911	"	"
11	112	106	106		6	76	12		96		96	-10	102	12	1911	1898	"	"
12	106	106	106				13		99		99	-7	99	13	1924	1911	1911	1911
13	90	106	90	16	-16	76	14		100	14	86	-4	86	14	1915	1924	1898	1898
14	76	106	76	30	-30		15		100	26	74	-2	74	15	"	1915	1911	1911
15	72	104	72	32	-32		16		101	28	73	1	73	16	1924		1924	1924
16	71	101	71	30	-30	-38	17		98	26	72	1	72	17	"	1924	1915	1915
17	71	114	71	43	-43	-76	18		95	38	57	-14	57	18	1907			
18	71	124	71	53	-53	-76	19		104	47	57	-14	57	19	1896	1907	1924	1924
19	71	124	71	53	-53	-39	20		110	47	63	-8	63	20	1899	1896		
20	69	124	69	55	-55	-114	21		112	48	64	-5	64	21	"	1899	1907	1907
21	69	124	69	55	-55	-114	22		111	48	63	-6	63	22	1886		1896	1896
22	70	207	70	137	-137	-267	23		118	118		-70		23	1892	1886	1899	1899
23	70	275	70	205	-205	-379	24		213	180	33	-37	33	24	1886	1892		
24	69	275	69	206	-206	-529	25		238	181	57	-12	57	25	1891	1886	1886	1886
25	69	275	69	206	-206	-378	26		250	181	69		69	26	1887	1891	1892	1892
26	70	275	70	205	-205	-452	27		257	180	77	7	77	27	1888	1887	1886	1886
27	71	266	71	195	-195	-338	28		252	172	80	9	80	28	1885	1888	1891	1891
28	72	248	72	176	-176	-412												

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

12% transit loss on daily Stored releases...

Plate 28 - 2

c:\mydocs\yearly_rpt\2002\priority_j-d.xls

DETERMINATION OF PRIORITY WATER

MARCH 2002

Mean daily discharge - cubic feet per second

		SAN CARLOS RESERVOIR						ASHURST-HAYDEN DAM						DAILY CALL SYSTEM COMPUTED PRIORITY YEAR			
		RELEASES			STORAGE												
2002	River Inflow	Total	Natural Flow	Stored	Inflow minus Outflow	Ac-ft change S C Res.	MAR	Sluiced and/or Spilled	Diverted	Stored	Natural Flow	Gain/Loss Nat.Flow	Nat. Flow Available to Project	MAR	Duncan Virden	Safford	Winkelman	Ashurst-Hayden
FEB 28	72	248	72	176	-176	-412	1		234	155	79	7	79	1	1884	1885	1887	1887
MAR 1	73	233	73	160	-160	-336	2		208	141	67	-6	67	2	"	1884	1888	1888
2	73	234	73	161	-161	-410	3		207	142	65	-8	65	3	1885	"	1885	1885
3	72	234	72	162	-162	-409	4		215	143	72		72	4	1882	1885	1884	1884
4	72	234	72	162	-162	-223	5		220	143	77	5	77	5	"	1882	"	"
5	71	259	71	188	-188	-408	6		226	165	61	-10	61	6	1879	"	1885	1885
6	71	280	71	209	-209	-406	7		255	184	71		71	7	1880	1879	1882	1882
7	73	301	73	228	-228	-552	8		269	201	68	-5	68	8	1881	1880	"	"
8	80	333	80	253	-253	-368	9		299	223	76	-4	76	9	1879	1881	1879	1879
9	78	332	78	254	-254	-512	10		305	224	81	3	81	10	"	1879	1880	1880
10	76	332	76	256	-256	-548	11		304	225	79	3	79	11	1878	"	1881	1881
11	74	332	74	258	-258	-510	12		305	227	78	4	78	12	1877	1878	1879	1879
12	73	332	73	259	-259	-507	13		307	228	79	6	79	13	"	1877	"	
13	70	332	70	262	-262	-397	14		305	231	74	4	74	14	1873	"	1878	1878
14	69	339	69	270	-270	-900	15		309	238	71	2	71	15	1874	1873	1877	1877
15	69	343	69	274	-274	-537	16		316	241	75	6	75	16	"	1874	"	"
16	67	299	67	232	-232	-500	17		301	204	97	30	97	17	1880	"	1873	1873
17	67	264	67	197	-197	-391	18		259	173	86	19	86	18	1882	1880	1874	1874
18	66	260	66	194	-194	-355	19		246	171	75	9	75	19	1881	1882	"	"
19	66	261	66	195	-195	-425	20		242	172	70	4	70	20	1879	1881	1880	1880
20	64	263	64	199	-199	-458	21		241	175	66	2	66	21	1880	1879	1882	1882
21	63	263	63	200	-200	-317	22		240	176	64	1	64	22	1879	1880	1881	1881
22	62	264	62	202	-202	-421	23		239	178	61	-1	61	23	"	1879	1879	1879
23	60	176	60	116	-116	-350	24		224	102	122	62	122	24	1888	"	1880	1880
24	59	116	59	57	-57	-244	25		150	50	100	41	100	25	1892	1888	1879	1879
25	57	114	57	57	-57	34	26		127	50	77	20	77	26	1890	1892	"	"
26	55	110	55	55	-55	-104	27		115	48	67	12	67	27	1887	1890	1888	1888
27	54	109	54	55	-55	-105	28		106	48	58	4	58	28	1886	1887	1892	1892
28	53	110	53	57	-57	35	29		101	50	51	-2	51	29	1887	1886	1890	1890
29	57	111	57	54	-54	-348	30		100	48	52	-5	52	30	1888	1887	1887	1887
30	54	110	54	56	-56	-35	31		97	49	48	-6	48	31	1895	1888	1886	1886
31	56	78	56	22	-22													

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

12% transit loss on daily Stored releases...

Plate 28 - 3

c:\mydocs\yearly_rpt\2002\priority_j-d.xls

DETERMINATION OF PRIORITY WATER

APRIL 2002

Mean daily discharge - cubic feet per second

		SAN CARLOS RESERVOIR						ASHURST-HAYDEN DAM						DAILY CALL SYSTEM COMPUTED PRIORITY YEAR			
		RELEASES			STORAGE												
2002	River Inflow	Total	Natural Flow	Stored	Inflow minus Outflow	Ac-ft change S C Res.	APR	Sluiced and/or Spilled	Diverted	Stored	Natural Flow	Gain/Loss Nat.Flow	Nat. Flow Available to Project	APR	Duncan Virden	Safford	Winkelman	Ashurst-Hayden
MAR 31	56	78	56	22	-22		1		88	19	69	13	69	1	1893	1895	1887	1887
APR 1	54	47	47		7		2		64		64	17	71	2	"	1893	1888	1888
2	51	44	44		7	-35	3		52		52	8	59	3	1886	"	1895	1895
3	49	43	43		6	35	4		43		43		49	4	1885	1886	1893	1893
4	48	41	41		7	35	5		37		37	-4	44	5	1887	1885	"	"
5	46	39	39		7		6		35		35	-4	42	6	1885	1887	1886	1886
6	49	37	37		12	-35	7		33		33	-4	45	7	1887	1885	1885	1885
7	52	35	35		17	35	8		28		28	-7	45	8	"	1887	1887	1887
8	54	34	34		20	35	9		23		23	-11	43	9	1885	"	1885	1885
9	50	31	31		19	69	10		18		18	-13	37	10	1884	1885	1887	1887
10	49	30	30		19	-35	11		16		16	-14	35	11	"	1884	"	"
11	52	29	29		23	35	12		14		14	-15	37	12	1883	"	1885	1885
12	49	32	32		17		13		16		16	-16	33	13	1885	1883	1884	1884
13	49	34	34		15	35	14		11		11	-23	26	14	"	1885	"	"
14	48	34	34		14	-70	15		7		7	-27	21	15	1884	"	1883	1883
15	47	33	33		14	-139	16		9		9	-24	23	16	"	1884	1885	1885
16	45	32	32		13	35	17		10		10	-22	23	17	"	"	"	"
17	43	32	32		11	-139	18		10		10	-22	21	18	Immem	"	1884	1884
18	42	31	31		11	-34	19		8		8	-23	19	19	"	Immem	"	"
19	41	30	30		11	-139	20		6		6	-24	17	20	"	"	Immem	Immem
20	40	30	30		10	-35	21		3		3	-27	13	21	"	"	"	"
21	38	30	30		8	69	22		4		4	-26	12	22	"	"	"	"
22	36	12	12		24	-69	23		4		4	-8	28	23	"	"	"	"
23	37				37	-69	24		3		3	3	40	24	"	"	"	"
24	35				35	69	25		2		2	2	37	25	"	"	"	"
25	35				35	35	26						35	26	"	"	"	"
26	33				33	-313	27						33	27	"	"	"	"
27	33				33	139	28						33	28	"	"	"	"
28	32				32		29						32	29	"	"	"	"
29	30				30	70	30						30	30	"	"	"	"
30	27				27	-70												

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

12% transit loss on daily Stored releases...

Plate 28 - 4

c:\mydocs\yearly_rpt\2002\priority_j-d.xls

DETERMINATION OF PRIORITY WATER

MAY 2002

Mean daily discharge - cubic feet per second

2002	River Inflow	SAN CARLOS RESERVOIR RELEASES Total	Natural Flow	Stored	STORAGE Inflow minus Outflow	Ac-ft change S C Res.	MAY	ASHURST-HAYDEN DAM Sluiced and/or Spilled	Diverted	Stored	Natural Flow	Gain/Loss Nat.Flow	Nat. Flow Available to Project	MAY	DAILY CALL SYSTEM COMPUTED PRIORITY YEAR Duncan Virden	Safford	Winkelman	Ashurst-Hayden
APR 30	27				27	-70	1		1		1	1	28	1	Immem	Immem	Immem	Immem
MAY 1	26				26	-139	2		4		4	4	30	2	"	"	"	"
2	25				25	-34	3		4		4	4	29	3	"	"	"	"
3	23				23	34	4		2		2	2	25	4	"	"	"	"
4	23				23	35	5						23	5	"	"	"	"
5	23				23	-35	6						23	6	"	"	"	"
6	22				22	-34	7						22	7	"	"	"	"
7	22				22	-69	8						22	8	"	"	"	"
8	20				20		9						20	9	"	"	"	"
9	18				18		10						18	10	"	"	"	"
10	20				20	-173	11						20	11	"	"	"	"
11	18				18	-34	12						18	12	"	"	"	"
12	17				17		13						17	13	"	"	"	"
13	16				16	-35	14						16	14	"	"	"	"
14	14				14	-103	15						14	15	"	"	"	"
15	14				14	34	16						14	16	"	"	"	"
16	12				12	-69	17						12	17	"	"	"	"
17	11				11		18						11	18	"	"	"	"
18	12				12	-69	19						12	19	"	"	"	"
19	11	64	64		-53	-276	20					-64		20	"	"	"	"
20	10	94	94		-84	-343	21					-94		21	"	"	"	"
21	8	94	94		-86	-274	22					-94		22	"	"	"	"
22	9	94	94		-85	-274	23					-94		23	"	"	"	"
23	9	94	94		-85	-171	24					-94		24	"	"	"	"
24	10	94	94		-84	-239	25					-94		25	"	"	"	"
25	9	94	94		-85	-204	26					-94		26	"	"	"	"
26	10	34	34		-24	-136	27					-34		27	"	"	"	"
27	8				8	-68	28						8	28	"	"	"	"
28	8				8	-34	29						8	29	"	"	"	"
29	6				6	-34	30						6	30	"	"	"	"
30	5				5	-67	31						5	31	"	"	"	"
31	4				4	-34												

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

12% transit loss on daily Stored releases...

Plate 28 - 5

c:\mydocs\yearly_rpt\2002\priority_j-d.xls

DETERMINATION OF PRIORITY WATER

JUNE 2002

Mean daily discharge - cubic feet per second

		SAN CARLOS RESERVOIR						ASHURST-HAYDEN DAM						DAILY CALL SYSTEM COMPUTED PRIORITY YEAR			
		RELEASES			STORAGE												
2002	River Inflow	Total	Natural Flow	Stored	Inflow minus Outflow	Ac-ft change S C Res.	JUN	Sluiced and/or Spilled	Diverted	Stored	Natural Flow	Gain/Loss Nat.Flow	Nat. Flow Available to Project	JUN	Duncan Virden	Safford	Winkelman	Ashurst-Hayden
MAY 31	4				4	-34	1						4	1	Immem	Immem	Immem	Immem
JUN 1	3				3	-238	2						3	2	"	"	"	"
2	2				2		3						2	3	"	"	"	"
3	1				1	-135	4						1	4	"	"	"	"
4	1				1	-68	5						1	5	"	"	"	"
5	1				1		6						1	6	"	"	"	"
6	1				1		7						1	7	"	"	"	"
7						-101	8							8	"	"	"	"
8						-102	9							9	"	"	"	"
9						-135	10							10	"	"	"	"
10						-168	11							11	"	"	"	"
11						34	12							12	"	"	"	"
12						-68	13							13	"	"	"	"
13						-100	14							14	"	"	"	"
14							15							15	"	"	"	"
15						-168	16							16	"	"	"	"
16						-68	17							17	"	"	"	"
17						-67	18							18	"	"	"	"
18						-67	19							19	"	"	"	"
19						-134	20							20	"	"	"	"
20						-33	21							21	"	"	"	"
21						-168	22							22	"	"	"	"
22						-33	23							23	"	"	"	"
23						-101	24							24	"	"	"	"
24						-100	25							25	"	"	"	"
25						33	26							26	"	"	"	"
26						-167	27							27	"	"	"	"
27						-34	28							28	"	"	"	"
28						-133	29							29	"	"	"	"
29						-33	30							30	"	"	"	"
30						-100												

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

12% transit loss on daily Stored releases...

Plate 28 - 6

c:\mydocs\yearly_rpt\2002\priority_j-d.xls

DETERMINATION OF PRIORITY WATER

JULY 2002

Mean daily discharge - cubic feet per second

		SAN CARLOS RESERVOIR						ASHURST-HAYDEN DAM						DAILY CALL SYSTEM COMPUTED PRIORITY YEAR			
		RELEASES			STORAGE												
2002	River Inflow	Total	Natural Flow	Stored	Inflow minus Outflow	Ac-ft change S C Res.	JUL	Sluiced and/or Spilled	Diverted	Stored	Natural Flow	Gain/Loss Nat.Flow	Nat. Flow Available to Project	JUL	Duncan Virden	Safford	Winkelman	Ashurst-Hayden
JUN 30						-100	1							1	Immem	Immem	Immem	Immem
JUL 1						-133	2							2	"	"	"	"
2						-66	3							3	"	"	"	"
3						-67	4							4	"	"	"	"
4						-132	5							5	"	"	"	"
5						-67	6							6	"	"	"	"
6						-33	7							7	"	"	"	"
7						-100	8							8	"	"	"	"
8						-99	9							9	"	"	"	"
9						-33	10							10	"	"	"	"
10						-99	11							11	"	"	"	"
11						-100	12							12	"	"	"	"
12						-66	13							13	"	"	"	"
13							14							14	"	"	"	"
14						66	15							15	"	"	"	"
15						-330	16							16	"	"	"	"
16						33	17							17	"	"	"	"
17						99	18							18	"	"	"	"
18						-198	19							19	"	"	"	"
19	34				34	-33	20						34	20	"	"	"	"
20						33	21							21	"	"	"	"
21						-132	22							22	"	"	"	"
22							23							23	"	"	"	"
23						-32	24							24	"	"	"	"
24						-66	25							25	"	"	"	"
25							26							26	"	"	"	"
26						-66	27							27	"	"	"	"
27	70				70	-33	28						70	28	"	"	"	"
28	2				2	-33	29						2	29	"	"	"	"
29						-33	30							30	"	"	"	"
30	27				27	-164	31						27	31	"	"	"	"
31	41				41	-32												

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

12% transit loss on daily Stored releases...

Plate 28 - 7

c:\mydocs\yearly_rpt\2002\priority_j-d.xls

DETERMINATION OF PRIORITY WATER

AUGUST 2002

Mean daily discharge - cubic feet per second

2002	River Inflow	SAN CARLOS RESERVOIR RELEASES Total	Natural Flow	Stored	STORAGE Inflow minus Outflow	Ac-ft change S C Res.	AUG	ASHURST-HAYDEN DAM Sluiced and/or Spilled	Diverted	Stored	Natural Flow	Gain/Loss Nat.Flow	Nat. Flow Available to Project	AUG	DAILY CALL SYSTEM COMPUTED PRIORITY YEAR Duncan Virden	Safford	Winkelman	Ashurst-Hayden
JUL 31	41				41	-32	1						41	1	Immem	Immem	Immem	Immem
AUG 1	49	2	2		47	-164	2					-2	47	2	"	"	"	"
2	35	2	2		33	33	3					-2	33	3	"	"	"	"
3	19	2	2		17	-131	4					-2	17	4	1882	"	"	"
4	9	2	2		7	-66	5					-2	7	5	1880	1882	"	"
5	18	2	2		16	-32	6		83		83	81	99	6	1885	1880	"	"
6	397	2	2		395	98	7		19		19	17	414	7	1924	1885	1882	1882
7	334	138	138		196	-261	8		20		20	-118	216	8	1906	1924	1880	1880
8	245	233	233		12	-457	9		57		57	-176	69	9	1890	1906	1885	1885
9	192	214	192	22	-22	-260	10		119	19	100	-92	100	10	1900	1890	1924	1924
10	60	175	60	115	-115	-324	11		102	101	1	-59	1	11	1890	1900	1906	1906
11	35	175	35	140	-140	-258	12		97	97		-35		12	1887	1890	1890	1890
12	33	159	33	126	-126	-355	13		93	93		-33		13	1875	1887	1900	1900
13	22	157	22	135	-135	-354	14		53	53		-22		14	1846	1875	1890	1890
14	34	138	34	104	-104	-289	15		46	46		-34		15	Immem	1846	1887	1887
15	19	139	19	120	-120	-351	16		45	45		-19		16	"	Immem	1875	1875
16	14	140	14	126	-126	-319	17		47	47		-14		17	"	"	1846	1846
17	65	53	53		12	-64	18		49		49	-4	61	18	"	"	Immem	Immem
18	23	2	2		21	-64	19		23		23	21	44	19	"	"	"	"
19	15	2	2		13	-95	20		1.5		2	-1	15	20	1881	"	"	"
20	13	2	2		11	-32	21					-2	11	21	Immem	1881	"	"
21	13	2	2		11	-64	22		0.6		1	-1	12	22	"	Immem	"	"
22	66	2	2		64	-32	23		1.1		1	-1	65	23	"	"	1881	1881
23	46	2	2		44	-63	24		0.7		1	-1	45	24	"	"	Immem	Immem
24	30	2	2		28	-32	25		0.4		0	-2	28	25	"	"	"	"
25	18	2	2		16	-63	26		0.2		0	-2	16	26	"	"	"	"
26	10	1	1		9	-95	27					-1	9	27	"	"	"	"
27	8	1	1		7	-32	28					-1	7	28	"	"	"	"
28	6	1	1		5	-126	29		0.6		1	0	6	29	1883	"	"	"
29	9	1	1		8	63	30		0.5		1	-1	9	30	1880	1883	"	"
30	34	1	1		33	-96	31		0.3		0	-1	33	31	1890	1880	"	"
31	25	1	1		24	96												

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

12% transit loss on daily Stored releases...

DETERMINATION OF PRIORITY WATER

SEPTEMBER 2002

Mean daily discharge - cubic feet per second

2002	River Inflow	SAN CARLOS RESERVOIR RELEASES Total	Natural Flow	Stored	STORAGE Inflow minus Outflow	Ac-ft change S C Res.	SEP	ASHURST-HAYDEN DAM Sluiced and/or Spilled	Diverted	Stored	Natural Flow	Gain/Loss Nat.Flow	Nat. Flow Available to Project	SEP	DAILY CALL SYSTEM COMPUTED PRIORITY YEAR Duncan Virden	Safford	Winkelman	Ashurst-Hayden
AUG 31	25	1	1		24	95	1					-1	24	1	1845	1890	1883	1883
SEP 1	12	2	2		10	-158	2					-2	10	2	"	1845	1880	1880
2	7	2	2		5	-95	3					-2	6	3	"	"	1890	1890
3	9	2	2		7		4					-2	7	4	"	"	1845	1845
4	11	2	2		9	-63	5					-2	9	5	"	"	"	"
5	6	2	2		4	-63	6					-2	4	6	"	"	"	"
6	6	2	2		4	-190	7					-2	4	7	"	"	"	"
7	4	2	2		2		8					-2	2	8	"	"	"	"
8	6	2	2		4	127	9					-2	4	9	"	"	"	"
9	9	2	2		7		10					-2	7	10	"	"	"	"
10	18	2	2		16	95	11		242		242	240	258	11	1924	"	"	"
11	58	2	2		56	31	12	50	73		73	121	179	12	"	1924	"	"
12	222	49	49		173	-31	13	25	2		2	-22	200	13	"	"	"	"
13	1300	115	115		1185	-127	14	20	1		1	-94	1206	14	"	"	1924	1924
14	1990	117	117		1873	2325	15	5	1		1	-111	1879	15	"	"	"	"
15	780	176	176		604	2109	16	46	10		10	-120	660	16	1881	"	"	"
16	388	175	175		213	721	17		98		98	-77	311	17	1845	1881	"	"
17	233	120	120		113	231	18		59		59	-61	172	18	1879	1845	"	"
18	146	113	113		33		19		46		46	-67	79	19	1881	1879	1881	1881
19	107	117	107	10	-10		20		39.5	9	31	-77	31	20	1876	1881	1845	1845
20	93	88	88		5	-66	21		43.5		44	-45	49	21	1887	1876	1879	1879
21	80	27	27		53	33	22		30.4		30	3	83	22	"	1887	1881	1881
22	68	2	2		66	33	23		19		19	17	85	23	1924	"	1876	1876
23	59	25	26		34	-33	24		6.5		7	-19	41	24	1892	1924	1887	1887
24	49	52	49	3	-3	-33	25		4.8	3	2	-47	2	25	1874	1892	"	"
25	37	49	37	12	-12	-66	26		4	4		-37		26	1873	1874	1924	1924
26	28	53	28	25	-25	-296	27		3.9	3.9		-28		27	1878	1873	1892	1892
27	24	86	24	62	-62	-164	28		3.4	3.4		-24		28	1873	1878	1874	1874
28	22	118	22	96	-96	-262	29		5.2	5.2		-22		29	1845	1873	1873	1873
29	20	118	20	98	-98	-327	30		32	32		-20		30	"	1845	1878	1878
30	18	122	18	104	-104	-294												

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

12% transit loss on daily Stored releases...

Plate 28 - 9

c:\mydoc\yearly_rpt\2002\priority_j-d.xls

DETERMINATION OF PRIORITY WATER

OCTOBER 2002

Mean daily discharge - cubic feet per second

		SAN CARLOS RESERVOIR						ASHURST-HAYDEN DAM						DAILY CALL SYSTEM COMPUTED PRIORITY YEAR			
		RELEASES			STORAGE												
2002	River Inflow	Total	Natural Flow	Stored	Inflow minus Outflow	Ac-ft change S C Res.	OCT	Sluiced and/or Spilled	Diverted	Stored	Natural Flow	Gain/Loss Nat.Flow	Nat. Flow Available to Project	OCT	Duncan Virden	Safford	Winkelman	Ashurst-Hayden
SEP 30	18	122	18	104	-104	-294	1		46	46		-18		1	1845	1846	1873	1873
OCT 1	8	134	8	126	-126	-228	2		53	53		-8		2	1874	"	1845	1845
2	9	142	9	133	-133	-455	3		68	68		-9		3	1868	1874	"	"
3	9	142	9	133	-133	-323	4		78	78		-9		4	1875	1868	"	"
4	10	142	10	132	-132	-290	5		85	85		-10		5	"	1875	1874	1874
5	12	142	12	130	-130	-322	6		87	87		-12		6	1877	"	1868	1868
6	13	142	13	129	-129	-322	7		89	89		-13		7	1887	1877	1875	1875
7	16	156	16	140	-140	-320	8		93	93		-16		8	1915	1887	"	"
8	62	166	62	104	-104	-287	9		105	92	13	-49	13	9	1924	1916	1877	1877
9	644	187	187		457	-287	10		112		112	-75	569	10	1914	1924	1887	1887
10	352	203	203		149	319	11		132		132	-71	281	11	1915	1914	1915	1915
11	152	203	152	51	-51	32	12		139	45	94	-58	94	12	1896	1915	"	"
12	85	203	85	118	-118	-160	13		145	104	41	-44	41	13	1884	1896	1914	1914
13	52	176	52	124	-124	-446	14		145	109	36	-16	36	14	1879	1884	1915	1915
14	31	152	31	121	-121	-95	15		120	106	14	-17	14	15	1883	1879	1896	1896
15	21	152	21	131	-131	-316	16		117	115	2	-19	2	16	1846	1883	1884	1884
16	12	152	12	140	-140	-284	17		118	118		-12		17	1875	1846	1879	1879
17	22	152	22	130	-130	-379	18		116	114	2	-20	2	18	1845	1875	1883	1883
18	18	102	18	84	-84	-157	19		116	74	42	24	42	19	1888	1845	1846	1846
19	16	68	16	52	-52	-157	20		72	46	26	10	26	20	1890	1888	1875	1875
20	16	68	16	52	-52	-125	21		49	46	3	-13	3	21	1888	1890	1845	1845
21	15	68	15	53	-53	-157	22		42	42		-15		22	1884	1888	1888	1888
22	14	104	14	90	-90	-219	23		40	40		-14		23	1887	1884	1890	1890
23	12	123	12	111	-111	-281	24		70	70		-12		24	1880	1887	1888	1888
24	12	124	12	112	-112	-248	25		84	84		-12		25	1886	1880	1884	1884
25	11	45	11	34	-34	-31	26		95	30	65	54	65	26	1924	1886	1887	1887
26	11				11		27		52		52	52	63	27	"	1924	1880	1880
27	12				12	-32	28		17		17	17	29	28	"	"	1886	1886
28	12				12		29		4.3		4	4	16	29	"	"	1924	1924
29	13				13	-31	30		1.7		2	2	15	30	"	"	"	"
30	13				13	-31	31		0.9		1	1	14	31	"	"	"	"
31	13				13													

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

12% transit loss on daily Stored releases...

Plate 28 - 10

c:\mydocs\yearly_rpt\2002\priority_j-d.xls

DETERMINATION OF PRIORITY WATER

NOVEMBER 2002

Mean daily discharge - cubic feet per second

2002	River Inflow	SAN CARLOS RESERVOIR RELEASES Total	Natural Flow	Stored	STORAGE Inflow minus Outflow	Ac-ft change S C Res.	NOV	ASHURST-HAYDEN DAM Sluiced and/or Spilled	Diverted	Stored	Natural Flow	Gain/Loss Nat.Flow	Nat. Flow Available to Project	NOV	DAILY CALL SYSTEM COMPUTED PRIORITY YEAR Duncan Virden	Safford	Winkelman	Ashurst-Hayden
OCT 31	13				13		1						13	1	1924	1924	1924	1924
NOV 1	11				11		2						11	2	"	"	"	"
2	12				12	-31	3						12	3	"	"	"	"
3	14				14	-31	4						14	4	1897	"	"	"
4	12				12	-31	5						12	5	"	1897	"	"
5	10				10	-31	6						10	6	1896	"	"	"
6	9				9	-62	7						9	7	"	1896	1897	1897
7	8				8	31	8						8	8	"	"	"	"
8	8				8	62	9						8	9	1898	"	1896	1896
9	8				8	-217	10						8	10	1896	1898	"	"
10	8				8		11						8	11	"	1896	"	"
11	7				7	-31	12						7	12	1897	"	1898	1898
12	7				7	-124	13						7	13	1896	1897	1896	1896
13	8				8	31	14						8	14	"	1896	"	"
14	10				10		15						10	15	"	"	1897	1897
15	11				11	-31	16						11	16	1899	"	1896	1896
16	11				11		17						11	17	1895	1899	"	"
17	10				10		18						10	18	1894	1895	"	"
18	16				16	-61	19						16	19	1898	1894	1899	1899
19	17				17		20						17	20	1924	1898	1895	1895
20	19				19	-31	21						19	21	1911	1924	1894	1894
21	20				20		22						20	22	1896	1911	1898	1898
22	21				21		23						21	23	"	1896	1924	1924
23	22				22		24						22	24	"	"	1911	1911
24	24				24		25						24	25	1909	"	1896	1896
25	25				25		26						25	26	1924	1909	"	"
26	26				26	92	27						26	27	"	1924	"	"
27	28				28	-123	28						28	28	1924	"	1909	1909
28	25				25		29						25	29	1896	1924	1924	1924
29	26	136	26	110	-110	-247	30					-26		30	1909	1896	"	"
30	37	208	37	171	-171	-338												

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

12% transit loss on daily Stored releases...

Plate 28 - 11

c:\mydocs\yearly_rpt\2002\priority_j-d.xls

DETERMINATION OF PRIORITY WATER

DECEMBER 2002

Mean daily discharge - cubic feet per second

		SAN CARLOS RESERVOIR						ASHURST-HAYDEN DAM						DAILY CALL SYSTEM COMPUTED PRIORITY YEAR			
		RELEASES			STORAGE												
2002	River Inflow	Total	Natural Flow	Stored	Inflow minus Outflow	Ac-ft change S C Res.	DEC	Sluiced and/or Spilled	Diverted	Stored	Natural Flow	Gain/Loss Nat.Flow	Nat. Flow Available to Project	DEC	Duncan Virden	Safford	Winkelman	Ashurst-Hayden
NOV 30	37	208	37	171	-171	-338	1					-37		1	1887	1909	1924	1924
DEC 1	38	208	38	170	-170	-367	2		76	76		-38		2	1876	1887	1896	1896
2	35	208	35	173	-173	-335	3		122	122		-35		3	1887	1876	1909	1909
3	39	189	39	150	-150	-332	4		133	132	1	-38	1	4	"	1887	1887	1887
4	37	179	37	142	-142	-302	5		125	125		-37		5	1890	"	1876	1876
5	45	179	45	134	-134	-360	6		128	118	10	-35	10	6	1881	1890	1887	1887
6	47	198	47	151	-151	-327	7		133	133		-47		7	1883	1881	"	"
7	49	210	49	161	-161	-387	8		153	142	11	-38	11	8	1884	1883	1890	1890
8	49	210	49	161	-161	-324	9		161	142	19	-30	19	9	1883	1884	1881	1881
9	48	187	48	139	-139	-323	10		162	122	40	-8	40	10	1894	1883	1883	1883
10	48	167	48	119	-119	-293	11		144	105	39	-9	39	11	1887	1894	1884	1884
11	42	159	42	117	-117	-261	12		132	103	29	-13	29	12	1889	1887	1883	1883
12	47	143	47	96	-96	-232	13		126	84	42	-5	42	13	1888	1889	1894	1894
13	50	134	50	84	-84	-231	14		114	74	40	-10	40	14	1893	1888	1887	1887
14	51	135	51	84	-84	-173	15		109	74	35	-16	35	15	1895	1893	1889	1889
15	46	137	46	91	-91	-172	16		111	80	31	-15	31	16	1893	1895	1888	1888
16	41	126	41	85	-85	-258	17		118	75	43	2	43	17	1890	1893	1893	1893
17	45	107	45	62	-62	-171	18		111	55	56	11	56	18	1924	1890	1895	1895
18	46	100	46	54	-54	-57	19		96	48	48	2	48	19	1897	1924	1893	1893
19	44	99	44	55	-55	-170	20		89	48	41	-3	41	20	"	1897	1890	1890
20	48	63	48	15	-15	-57	21		88	13	75	27	75	21	1924	"	1924	1924
21	44	43	43		1	-28	22		63		63	20	64	22	"	1924	1897	1897
22	40	45	40	5	-5	-29	23		47	4	43	3	43	23	"	"	"	"
23	47	19	19		28	29	24		41		41	22	69	24	"	"	1924	1924
24	48	27	27		21		25		35		35	8	56	25	"	"	"	"
25	60	42	42		18	-29	26		20		20	-22	38	26	"	"	"	"
26	72	53	53		19	-28	27		18		18	-35	37	27	"	"	"	"
27	78	60	60		18	-28	28		24		24	-36	42	28	"	"	"	"
28	75	69	69		6	-28	29		28		28	-41	34	29	"	"	"	"
29	75	74	74		1		30		45		45	-29	45	30	"	"	"	"
30	79	74	74		5	-57	31		55		55	-19	60	31	"	"	"	"
31	84	75	75		9	28												

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

12% transit loss on daily Stored releases...

Plate 28 - 12

c:\mydocs\yearly_rpt\2002\priority_j-d.xls

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

THEN BEING IRRIGATED

Year of Prior.	Duncan Valley Decreed	Duncan Valley TBI 2002	Safford Valley Decreed	Safford Valley TBI 2002	Total Upper Valleys Decreed	Total Upper Valleys TBI 2002	San Carlos Indian Reserv. Decreed	San Carlos Indian Reserv. TBI 2002	Winkelman Valley Decreed ASARCO Ind.*	Winkelman Valley Decreed KEARNY Ind.*	Winkelman Valley Decreed Agr. LANDS	Winkelman Valley Decreed TBI 2002	U.S.A. Decreed	GRIC Decreed	GRIC TBI	SCIDD Decreed	SCIDD Decreed ACCUMULATED	SCIDD TBI	Total Decreed	Total TBI	Total USA TBI	Year of Prior.
Immem. Rights													437.5	437.5	219.0				437.5	219.0	219.0	Immem. Rights
1846							12.5	3.4											450.0	222.4		1846
1868													449.5			12.0	12.0	8.3	462.0	228.7	225.3	1868
1869													460.2			10.7	22.7	11.9	472.7	234.3	230.9	1869
1872			0.4	0.3	0.4	0.3							467.7			7.5	30.2	15.8	480.6	238.5	234.8	1872
1873			1.0	0.8	1.0	0.8							468.7			2.0	32.2	16.9	483.2	240.1	236.9	1873
1874	6.3	5.5	7.9	6.6	14.2	12.1							469.9			0.2	32.4	17.0	496.6	251.5	236.0	1874
1875			16.5	13.7	22.8	19.2							473.8			3.9	36.3	19.0	509.1	260.6	238.0	1875
1876			24.3	20.4	30.6	25.9							478.5			5.7	42.0	22.0	522.6	278.3	241.0	1876
1877			35.4	29.7	41.7	35.2				0.1	0.3	0.0	481.5			2.0	44.0	23.1	536.1	280.8	242.1	1877
1878			43.9	36.8	50.2	42.3			0.8				481.8			0.4	44.3	23.2	545.7	288.8	242.2	1878
1879			51.2	42.9	57.5	48.4			2.0				484.5			2.6	47.0	24.7	556.9	297.6	243.7	1879
1880			62.2	52.5	68.5	58.0			3.6	0.3	2.2	0.0	484.9			0.5	47.4	24.9	572.0	309.2	243.9	1880
1881	12.1	10.7	72.7	61.6	84.8	72.3													588.3	323.5		1881
1882	13.2	11.6	85.6	72.9	98.8	84.5													602.3	335.7		1882
1883			104.8	89.1	118.0	100.7													621.5	351.9		1883
1884	13.7	12.0	126.1	107.1	139.8	119.1			5.7	1.3	2.4	0.0	485.3			0.3	47.8	25.1	647.0	373.6	244.1	1884
1885	19.3	16.2	142.8	120.5	161.3	136.7			6.4				486.6			1.4	49.1	25.8	670.5	392.6	244.8	1885
1886	22.2	18.8	160.8	136.4	183.0	155.0							486.9			0.3	49.4	25.9	692.5	411.0	244.9	1886
1887	22.9	19.3	171.0	145.0	193.9	164.3			7.2		2.9	0.0							704.7	421.1		1887
1888	30.5	25.6	179.3	152.1	209.8	177.7													720.6	434.5		1888
1889	31.8	26.6	191.4	162.5	223.2	189.1							489.5			2.6	52.0	27.3	736.6	447.3	246.3	1889
1890			202.8	172.0	234.6	198.8			7.3				491.3			1.8	53.8	28.2	749.9	457.8	247.2	1890
1891	32.3	27.0	215.6	183.2	247.9	210.2							503.5			12.2	66.0	34.6	776.4	478.8	253.6	1891
1892	33.5	28.1	221.2	188.1	254.7	216.2							508.5			5.0	71.0	37.3	787.2	484.5	256.3	1892
1893	34.4	28.8	228.8	193.9	262.5	222.7							512.5			4.1	75.0	39.4	798.9	493.1	258.4	1893
1894	37.7	31.5	230.3	195.9	268.0	227.4							514.9			2.4	77.4	40.6	806.9	499.0	259.6	1894
1895	42.0	35.2	235.5	200.0	277.5	235.2			7.8				524.2			9.3	86.7	45.5	826.2	512.2	264.5	1895
1896	45.4	38.1	246.0	209.4	291.6	247.6							528.1			3.9	90.6	47.5	844.0	526.5	266.5	1896
1897	58.8	49.0	249.7	212.7	308.5	261.7													862.1	540.7		1897
1898	69.9	57.4	253.0	215.5	322.9	272.9							528.5			0.5	91.0	47.8	875.9	552.2	268.8	1898
1899			260.3	221.9	330.2	279.3							528.6			0.1	91.1	47.8	883.3	558.6	268.8	1899
1900	75.4	61.3	270.7	230.8	346.0	292.1													899.2	571.4		1900
1901	76.1		277.7	236.9	353.7	298.2							529.1			0.5	91.6	48.1	907.4	577.8	267.1	1901
1902	78.2		283.2	241.6	361.3	302.9													916.8	582.5		1902
1903	79.3		288.4	246.2	367.6	307.6													921.3	587.1		1903
1904	81.3	62.5	318.7	271.8	400.0	334.3							529.7			0.6	92.2	48.4	954.2	614.2	267.4	1904
1905	82.4	63.1	321.8	274.5	404.0	337.6													958.2	617.5		1905
1906	83.4	63.3	326.0	278.3	409.5	341.6			8.0										963.8	621.7		1906
1907	85.1	63.3	350.4	298.7	435.5	362.0													969.9	642.1		1907
1908	88.1	66.1	354.4	302.3	443.5	367.4			9.9		4.0	0.0	535.0			5.4	97.5	51.2	1006.2	652.2	270.2	1908
1909	90.4		358.5	305.5	448.9	370.6			22.2				538.4			3.4	100.9	52.9	1027.3	669.4	271.9	1909
1910	91.1	65.3	365.6	311.7	456.8	377.0							540.1			1.7	102.6	53.8	1036.8	676.7	272.8	1910
1911	92.0	66.8	366.8	312.7	458.7	378.5							542.1			2.0	104.6	54.9	1040.7	679.3	273.9	1911
1912	92.2	65.9	372.4	317.6	464.6	383.5							543.8			1.8	106.3	55.8	1048.4	685.2	274.8	1912
1913	92.3	66.0	380.6	324.8	472.9	390.8							556.9			16.1	121.4	63.7	1071.8	700.4	282.7	1913
1914	93.0	66.5	383.6	327.3	476.6	393.8							569.3			10.3	131.8	69.2	1085.9	706.9	288.2	1914
1915	93.5	66.8	390.3	333.5	483.7	400.3													1093.1	715.4		1915
1916	93.8		392.2	335.3	485.7	402.2					4.9	0.0	775.0			206.7	337.5	177.1	1301.7	825.2	396.1	1916
1917	98.4	70.9	397.4	339.3	495.9	410.2													1311.7	833.2		1917
1918	99.5	71.7	399.0	340.6	498.7	412.5													1314.4	835.5		1918
1919	99.8		404.4	345.6	504.4	417.3													1320.1	840.3		1919
1920	100.0	71.9	406.3	347.5	506.4	419.4					5.2	0.0							1322.5	842.4		1920
1921					506.5	347.5													1322.5	770.5		1921
1924													1256.5	194.3		287.2	624.7	327.8	1804.0	921.2	546.8	1924
1926	100.1	72.0			506.6	419.5					5.5	0.0							1804.4	993.2		1926
1929	100.6	72.4			507.0	419.9													1804.9	993.6		1929
Total	100.6	72.4	406.4	347.5	507.0	419.9	12.5	3.4	22.2	1.3	5.5	0.0	1256.5	437.5	219.0	624.7	624.7	327.8	1805.0	993.6	546.8	Total

TBI ACRES	5,786.83	27,793.62	33,580.45	270.00	101.73	0.00	ALL GRIC= 50,646.40 IRRIGATED	17,618.74	26,234.82	77,496.44	TBI ACRES
% REDUCTION	28.22%	14.51%	17.21%	73.00%	100.00%	100.00%		49.95%	47.52%	48.19%	% REDUCTION
% ACRES TBI	71.78%	85.49%	82.79%	27.00%	0.00%	0.00%		50.05%	52.48%	53.81%	% ACRES TBI

GRIC BASED ON 35,000 ACRES IMMEMORIAL

Note: * Industrial and Municipal use
modified effective December 9, 2002, in accordance with court order

Plate 29

c:\lotus\wk123\yearly\2002\reldiv_02.123

RELATIVE DIVERSION RIGHT FOR DUNCAN VALLEY

Based on one cubic foot per second for each eighty acres

THEN BEING IRRIGATED

	Sunset		New Model		Valley										Laura Short					
Year	Decreed	TBI 2002	Decreed	TBI 2002	Decreed	TBI 2002	Colmenero Decreed	Sexton Decreed	R. Sexton Decreed	York Decreed	F. E. Ross Decreed	York Cattle Decreed	J H Brown Decreed	R K Davis Decreed	Decreed	TBI 2002	Albert Decreed	Decreed	Total Decreed	Total Modified
1874	6.3	5.5																6.3	6.3	5.5
1881	12.1	10.7																12.1	12.1	10.7
1882	13.2	11.6																13.2	13.2	11.6
1884			0.5	0.4														13.7	13.7	12.0
1885	15.5	13.6	2.2	1.8	1.0	0.8								0.1	0.5			18.7	19.3	16.2
1886			4.1	3.3	2.0	1.7												21.6	22.2	18.6
1887	16.1	14.2	4.2	3.4														22.3	22.9	19.3
1888			6.6	5.3	7.2	6.1												29.9	30.5	25.6
1889			7.9	6.3														31.2	31.8	26.6
1891	16.5	14.5	8.0	6.4														31.7	32.3	27.0
1892	17.7	15.6																32.9	33.5	28.1
1893	17.8		8.8	7.1														33.8	34.4	28.8
1894			11.1	8.9	8.2	7.0												37.1	37.7	31.5
1895	19.8	17.4	12.0	9.6	9.6	8.2												41.4	42.0	35.2
1896	21.0	18.5	14.2	11.4														44.8	45.4	38.1
1897	21.1	18.6	23.5	18.8	13.7	11.6	0.9											58.3	59.8	49.0
1898	24.4	21.5	29.6	23.7	14.4	12.2												68.4	69.9	57.4
1900	27.6	24.3	30.7	24.6	14.6	12.4	1.1		0.8									72.9	75.4	61.3
1901							1.2	0.6											76.1	61.3
1902							1.6	1.3		1.0									78.2	61.3
1903							2.4			1.3									79.3	61.3
1904	28.5	25.1			15.1	12.8	3.0											74.3	81.3	62.5
1905			31.3	25.1	15.2	12.9	3.4											75.0	82.4	63.1
1906			31.5	25.3						2.1								75.2	83.4	63.3
1907			31.6	25.3			5.0											75.3	85.1	63.3
1908			32.3	25.9	16.6	14.1	5.3			3.6				0.2				77.4	89.1	65.1
1909									1.4		0.1	0.6							90.4	65.1
1910			32.5	26.1				1.4		3.7			0.3					77.6	91.1	65.3
1911	29.1	25.6							1.7									78.2	92.0	65.8
1912			32.7	26.2														78.4	92.2	65.9
1913			32.8	26.3														78.5	92.3	66.0
1914	29.4	25.9	33.1	26.5													0.1	79.1	93.0	66.5
1915					17.0	14.4	5.4											79.5	93.6	66.8
1916					17.1	14.5						0.6							93.8	66.9
1917	33.6	29.6	33.3	26.7	17.2	14.6	5.5			3.8				0.3				84.1	98.4	70.9
1918	34.4	30.3			17.3	14.7			1.8	3.9								85.0	99.5	71.7
1919								1.7											99.8	71.7
1920			33.5	26.9														85.2	100.0	71.9
1921																				71.9
1926	34.5	30.4																85.3	100.1	72.0
1929			34.0	27.3														85.8	100.6	72.4
Total	34.5	30.4	34.0	27.3	17.3	14.7	5.5	1.7	1.8	3.9	0.1	0.6	0.3	0.3	0.5	0.0	0.1	85.8	100.6	72.4
DECREED ACRES		2,759.90		2,717.55		1,387.20	441.00	137.90	144.10	315.10	11.60	49.80	25.60	26.30		36.50	8.80			8,061.35
TBI ACRES		2,429.81		2,179.34		1,177.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00			5,786.83
% REDUCTION		11.96%		19.80%		15.10%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%		100.00%	100.00%			28.22%
% ACRES TBI		88.04%		80.20%		84.90%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		0.00%	0.00%			71.78%

Note: for blank spaces use first figure above
modified effective December 9, 2002, in accordance with Court Order

Plate 30

c:\lotuslwk\123\yearly\2002\reldiv_02.123

RELATIVE DIVERSION RIGHT FOR SAFFORD VALLEY

Based on one cubic foot per second for each eighty acres

THEN BEING IRRIGATED

	Consolidated Brown		Fourness		San Jose		Montezuma		Union - Sunflower		Graham		Smithville		Dodge- Nevada		Curtis		Fort Thomas		Colvin - Jones			
Year	Decreed	TBI 2002	Decreed	TBI 2002	Decreed	TBI 2002	Decreed	TBI 2002	Decreed	TBI 2002	Decreed	TBI 2002	Decreed	TBI 2002	Decreed	TBI 2002	Decreed	TBI 2002	Decreed	TBI 2002	Decreed	TBI 2002	Total Decreed	TBI TOTAL 2002
1872							0.4	0.3															0.4	0.3
1873							1.0	0.8															1.0	0.8
1874	0.5	0.4			1.2	1.1	2.8	2.3	3.4	2.8													7.9	6.6
1875	1.0	0.8			3.8	3.4	6.5	5.2	4.8	3.9	0.4	0.4											16.5	13.7
1876	1.2	1.0			7.5	6.7	8.0	6.4	6.5	5.3	0.6	0.5							0.5	0.5			24.3	20.4
1877	2.1	1.8			10.0	8.9	12.5	10.0	8.0	6.5	0.8	0.7			0.9	0.8			1.1	1.0			35.4	29.7
1878	2.6	2.2			11.2	10.0	15.0	12.1	12.1	9.8	0.9	0.8			1.0	0.9							43.9	36.8
1879	3.0	2.6			13.6	12.3	18.8	15.1	12.2	9.9	1.1	1.0			1.2	1.1							51.2	42.9
1880	3.6	3.0			16.0	13.3	19.9	16.0	14.5	11.8	1.8	1.6	4.4	4.0	1.9	1.8							62.2	52.5
1881	4.0	3.3			18.2	14.4	20.2	16.2	17.4	14.2	2.1	1.9	8.1	7.3	3.2	3.0	0.4	0.3					72.7	61.6
1882	4.8	4.0			18.8	16.7	21.4	17.2	18.7	15.2	3.3	3.0	11.2	10.1	4.4	4.1	1.4	1.1	1.6	1.5			85.6	72.9
1883	5.2	4.3			20.0	17.8	22.0	17.7	26.2	21.3	5.0	4.5	13.1	11.8	5.5	5.1	4.8	3.9	3.0	2.7			104.8	89.1
1884	5.9	4.9			22.5	20.0	22.5	18.1	31.9	25.9	5.1	4.6	14.1	12.7	6.6	6.2	12.9	10.6	4.6	4.2			126.1	107.1
1885	6.4	5.3			23.8	21.2	23.0	18.5	39.2	31.9	6.5	5.8	15.2	13.7	7.8	7.3	15.5	12.6					142.0	120.5
1886	6.8	5.7					25.0	20.1	47.6	38.7	9.9	8.9	16.2	14.6	8.9	8.3	16.8	13.8	5.8	5.3			160.8	136.4
1887	8.4	7.0							51.8	42.1	10.9	9.8	17.1	15.4	10.0	9.4	18.2	14.7					171.0	145.0
1888	8.6	7.2			25.0	22.2	25.5	20.5	53.9	43.8	11.6	10.4	18.8	16.9	11.1	10.4	18.8	15.2	6.0	5.5			179.3	152.1
1889	8.7	7.3			25.6	22.8	26.2	21.1	59.9	48.7	13.4	12.1			12.2	11.4	20.0	16.2	6.6	6.0			191.4	162.5
1890	9.3	7.8					27.0	21.7	66.0	53.7	14.5	13.0	20.0	18.0	13.4	12.5	20.4	16.5					202.8	172.0
1891	11.5	9.6	2.6	2.4	26.7	23.8	27.8	22.3	68.8	55.8	17.4	15.7			14.0	13.1							215.8	183.2
1892	12.1	10.1					28.5	22.9	70.2	57.1	19.4	17.5	20.3	18.3	14.4	13.5							221.2	188.1
1893	13.1	10.9			27.9	24.8	29.5	23.7	70.6	57.4	20.0	18.0							9.2	8.4			228.0	193.9
1894	13.2	11.0					30.0	24.1	71.6	58.2	20.4	18.4	20.6	18.6									230.3	195.9
1895					28.6	25.4	30.5	24.5	72.2	58.7	22.9	20.6							9.7	8.8	0.4	0.0	235.5	200.0
1896	14.8	12.4			29.8	26.5	32.0	25.7	72.3	58.8	24.0	21.6	21.4	19.3	14.7	13.8			13.8	12.4			246.0	209.4
1897					29.9	26.6	33.3	26.8	72.4	58.9	24.6	22.1	21.7	19.6					14.9	13.6			249.7	212.7
1898							34.4	27.6			25.4	22.6							16.3	14.9			253.0	216.5
1899	15.4	12.9			30.4	27.0	36.8	29.5	72.5	59.0	26.3	23.7			14.9	13.9	20.5	16.6	16.8	17.2			260.3	221.9
1900					31.9	28.4	40.5	32.5			27.1	24.4	22.4	20.2					22.5	20.5			270.7	230.8
1901	15.9	13.3			33.2	29.5	41.6	33.4	72.6	59.0	27.6	24.8			15.6	14.6			25.3	23.1			277.7	236.9
1902					34.5	30.7	45.2	36.3	72.7	59.1	28.1	25.3											283.2	241.6
1903					35.7	31.8	46.4	37.3			29.7	26.7							26.5	24.2			288.4	246.2
1904					39.8	35.4	46.9	37.7			32.0	28.8	24.0	21.6	15.7	14.7	20.6	16.7	26.6	24.3			297.2	254.0
1904					41.5	36.9	58.8	47.3	73.7	59.9	34.5	31.0	25.0	22.5	15.6	14.6	23.3	18.9	27.2	24.6			318.7	271.8
1905					42.6	37.9			73.9	60.1	35.7	32.1			16.0	15.0	23.4	19.0	27.3	24.9			321.9	274.5
1906					43.5	38.7	58.9	47.3	74.7	60.7	37.5	33.7							28.2	25.7			326.1	278.3
1907					48.4	43.1	59.0	47.4	87.8	71.4	38.8	34.9	28.5	25.7			23.8	19.3	28.7	26.2	0.9	0.0	360.4	298.7
1908					48.6	43.2					41.2	37.1							30.1	27.5			354.4	302.3
1909					49.5	44.0			87.9	71.5	41.7	37.5	29.7	26.8					31.0	28.3	1.4	0.0	358.5	305.5
1910					50.4	44.8			88.8	72.1	42.2	38.0	30.7	27.7	17.8	16.7	24.0	19.4	32.8	29.9	1.6	0.0	365.6	311.7
1911					51.0	45.4													33.2	30.3			366.8	312.7
1912									90.1	73.3	46.0	41.4							33.5	30.6	1.8	0.0	372.4	317.6
1913									90.7	73.8	46.3	41.7			24.3	22.7			34.0	31.0	2.1	0.0	380.6	324.8
1914	16.1	13.4							90.9	73.9	47.4	42.6			24.8	23.3			34.9	31.8			383.6	327.3
1915					51.5	45.8	59.1	47.5	91.0	74.0	48.8	44.0	30.9	27.9	27.7	25.9			36.4	33.2			390.3	333.5
1916							59.2	47.6	91.1	74.1	49.1	44.2	31.0	27.9	28.7	26.9			36.8	33.6			392.2	336.3
1917	16.3	13.6					59.6	47.9	91.7	74.6	50.6	45.5			29.5	27.6	24.5	19.8	37.5	34.2	2.6	0.0	397.4	339.3
1918									91.8	74.7	51.5	46.3	31.3	28.2					37.8	34.5			399.0	340.8
1919	16.6	13.9			51.9	46.1	60.3	48.5	92.0	74.8	52.6	47.3	31.9	28.8	30.6	28.6	24.6	19.9	38.7	35.3			404.4	345.8
1920							60.4	48.6	92.1	74.9	52.7	47.4			31.5	29.5			39.4	36.0			406.3	347.5
Total	16.6	13.9	2.6	2.4	51.9	46.1	60.4	48.6	92.1	74.9	52.7	47.4	31.9	28.8	31.5	29.5	24.6	19.9	39.4	36.0	2.6	0.0	406.4	347.5

DECREED ACRES	1,326.90		210.70		4,150.93		4,835.96		7,371.96		4,217.68		2,549.33		2,516.54		1,971.78		3,155.70		205.90		32,512.40	
TBI ACRES	1,107.43		189.60		3,691.78		3,886.21		5,995.20		3,794.12		2,298.34		2,354.74		1,597.25		2,678.85		0.00		27,793.62	
% REDUCTION	16.54%		10.01%		11.04%		19.64%		18.68%		10.04%		9.85%		6.43%		18.99%		8.77%		100.00%		14.51%	
% ACRES TBI	83.46%		89.99%		88.96%		80.36%		81.32%		89.96%		90.15%		93.57%		81.01%		91.23%		0.00%		85.49%	

Note: for blank spaces use first figure above
modified effective December 9, 2002, in accordance with Court Order

Plate 31

c:\lotus\wk\123\yearly\2002\reldiv_02.123

2002

COMPARISION OF U.S.G.S. 2002 PROVISIONAL TO FINAL DATA

Negative number means revised down from orginial 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	84	(45)	(8)	0	(6)	3	(4)	(121)	161	(24)	(145)	(2)	(107)
Gila River Near Clifton	53	(28)	(113)	149	(38)	12	(2)	2,115	399	(697)	(10)	(559)	1,281
San Francisco River @ Clifton	27	30	(47)	8	(14)	(11)	(52)	658	268	19	137	756	1,779
Head of Safford Valley	240	267	464	182	141	4	49	565	2,773	256	67	6	5,014
Gila @ Calva	87	38	(22)	13	8	(1)	67	(56)	107	(2)	(9)	6	236
San Carlos River @ Peridot	10	0	2	13	(1)	0	(16)	(42)	0	0	(1)	37	2
Gila Below Coolidge Dam	0	(6)	(90)	(119)	(11)	8	2	9	0	61	35	0	(111)
Gila @ Kelvin	(22)	43	(402)	20	3	(8)	(6)	(45)	(157)	(20)	7	(42)	(629)

Note: revised data not used in Water Commissioner's 2002 Annual Report

Plate 32

c:\lotuswk\123\yearly\2002\com_02.123

2002

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

Mean daily diversions, cubic feet per second

2002 Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	91	92	66	70	40	15	3.2	74	27	54	75	88
2	98	92	67	66	39	13	3.2	69	29	53	76	88
3	98	92	68	66	37	12	3.2	120	29	51	77	92
4	98	94	69	67	37	11	3.2	108	26	50	79	92
5	98	98	70	69	38	11	3.2	125	26	50	80	94
6	97	99	69	67	41	10	3.2	164	29	50	79	95
7	97	99	68	66	40	9.8	3.2	217	30	1330	76	95
8	97	99	67	64	39	10	3.4	132	36	189	76	95
9	96	98	67	64	39	10	3.7	203	71	101	77	93
10	96	96	70	63	36	9.2	6.6	246	57	85	79	94
11	94	96	64	60	35	8.8	4.1	138	611	80	81	93
12	88	96	60	59	35	8.9	3.2	115	2350	76	82	91
13	85	94	64	61	34	7.8	3.0	88	1080	73	82	87
14	84	94	65	59	33	7.2	3.0	74	641	70	82	88
15	85	94	65	59	32	6.6	26	60	407	71	79	90
16	84	92	67	59	31	6.1	36	47	310	70	79	91
17	81	90	68	57	30	5.5	48	49	244	68	81	90
18	80	85	68	55	29	5.0	51	48	210	68	81	91
19	78	85	65	54	28	4.5	58	44	178	71	81	91
20	82	84	60	53	27	4.5	44	40	151	72	79	93
21	87	83	60	55	26	4.5	39	38	137	72	80	93
22	85	83	58	53	25	4.0	56	37	122	74	80	93
23	79	82	57	51	24	4.0	51	31	109	73	81	95
24	77	77	60	50	23	4.0	36	33	98	71	80	96
25	77	75	64	50	22	3.5	35	35	89	71	80	96
26	78	71	63	49	21	3.3	30	37	78	71	81	96
27	80	64	64	50	20	3.3	45	33	70	72	81	94
28	82	65	64	50	19	3.2	213	43	65	74	82	92
29	84		66	45	18	3.3	302	29	60	73	83	91
30	87		67	42	16	3.3	115	26	56	72	84	90
31	91		68		16		85	25		75		89
Total	2714	2469	2018	1733	930	212.3	1319.4	2528	7426	3530	2393	2856
Ac-ft	5383	4897	4003	3437	1845	421	2617	5014	14729	7002	4747	5665

Total for year: 59,760 acre-feet

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

c:\my doc\yearly_rpt\2002\river.xls

2002

GILA RIVER NEAR CLIFTON, ARIZONA

Mean daily diversions, cubic feet per second

2002 Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	85	82	61	35	32	22	20	50	38	29	29	73
2	84	83	54	35	34	24	19	34	45	31	27	70
3	85	86	53	36	33	22	20	76	35	35	26	83
4	87	87	51	35	30	22	21	646	28	39	28	82
5	87	89	51	32	31	22	21	251	28	42	31	91
6	87	88	56	31	31	23	20	189	26	46	35	95
7	88	89	56	30	32	23	18	466	25	83	39	101
8	90	89	57	30	31	24	19	63	25	1730	41	105
9	90	88	54	31	31	23	21	81	33	153	41	102
10	90	87	49	30	31	24	21	135	50	80	41	102
11	87	86	49	30	32	26	24	185	166	60	41	104
12	85	88	47	30	32	25	22	119	592	50	41	104
13	85	83	42	30	32	22	20	84	846	40	44	101
14	83	81	40	29	32	22	19	71	487	35	48	96
15	78	79	38	29	33	21	29	62	239	30	49	92
16	73	79	39	30	33	21	22	58	121	29	49	87
17	68	78	39	30	33	21	21	75	88	28	51	85
18	61	77	41	30	30	21	20	40	77	25	56	93
19	61	76	44	30	30	22	20	34	69	26	57	94
20	61	76	46	30	32	23	20	33	63	25	61	94
21	61	74	45	29	28	21	33	33	58	24	62	94
22	68	75	43	29	27	19	35	31	53	25	68	98
23	75	74	41	29	26	17	61	31	49	26	69	108
24	74	72	39	30	25	18	38	31	45	30	70	117
25	76	69	39	30	25	18	38	31	41	28	69	109
26	79	70	39	30	26	19	37	30	38	28	66	109
27	80	66	43	31	26	19	37	29	35	27	68	110
28	78	66	42	31	24	19	300	29	35	28	70	107
29	80		38	31	25	19	100	30	36	29	76	104
30	81		35	31	24	20	80	28	37	30	82	100
31	81		35		23		65	28		30		94
Total	2448	2237	1406	924	914	642	1241	3083	3508	2921	1535	3004
Ac-ft	4856	4437	2789	1833	1813	1273	2462	6115	6958	5794	3045	5958

Total for year: 47,333 acre-feet

Drainage area.–4,010 sq. mi.

c:\my doc\yearly_rpt\2002\river.xls

2002

SAN FRANCISCO RIVER AT CLIFTON, ARIZONA

Mean daily diversions, cubic feet per second

2002 Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	73	74	67	58	36	14	9.7	55	41	53	51	59
2	72	74	68	56	35	15	11	55	61	56	51	58
3	69	75	69	53	34	14	11	61	57	50	50	60
4	69	78	69	52	30	15	14	85	50	51	49	66
5	73	77	70	54	32	15	20	82	46	49	48	62
6	72	76	71	55	35	15	10	120	42	57	47	60
7	72	74	71	58	36	16	9.4	132	39	75	47	62
8	72	74	69	58	36	16	9.8	94	41	93	47	62
9	73	73	64	55	35	16	11	107	43	83	48	62
10	74	71	62	53	31	15	8.6	137	41	71	46	62
11	76	71	56	52	33	14	16	128	1880	64	45	61
12	76	72	58	48	31	16	19	94	3710	60	44	60
13	75	72	62	50	32	15	19	67	861	63	43	61
14	74	71	61	48	31	14	17	52	408	60	44	62
15	73	70	62	47	25	14	13	29	276	58	40	61
16	75	69	65	45	26	14	21	21	218	57	40	60
17	81	65	65	46	27	12	31	18	165	56	40	62
18	80	63	66	44	26	10	29	18	136	61	41	65
19	80	65	67	42	26	11	20	20	114	59	48	65
20	80	66	62	43	25	11	23	104	99	56	53	64
21	79	66	63	40	23	11	25	56	89	56	54	64
22	77	66	64	43	23	11	25	35	79	58	48	64
23	76	64	63	41	22	9.6	31	28	71	61	42	70
24	77	63	64	41	21	6.8	99	21	67	59	42	79
25	76	63	64	39	20	7.5	60	18	62	57	42	76
26	75	60	63	37	19	9.1	50	16	60	54	44	69
27	76	59	59	39	18	9.2	44	20	54	59	47	65
28	76	64	60	37	17	9.8	55	38	56	57	49	57
29	76		61	38	17	9.3	63	42	55	55	59	57
30	76		62	38	17	11	80	44	55	48	60	76
31	77		62		14		63	45		52		76
Total	2330	1935	1989	1410	833	376.3	917.5	1842	8976	1848	1409	1987
Ac-ft	4622	3838	3945	2797	1652	746	1820	3654	17804	3666	2795	3941

Total for year: 51,280 acre-feet

Drainage area.--2,766 sq. mi.

c:\my doc\yearly_rpt\2002\river.xls

2002

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

Mean daily diversions, cubic feet per second

2002 Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	158	169	130	108	74	49	31	138	74	93	100	137
2	157	171	127	107	73	48	31	117	79	89	101	137
3	157	174	126	106	73	47	31	121	88	90	100	147
4	159	175	126	103	71	46	32	464	87	91	101	149
5	161	175	125	102	68	45	33	314	81	90	101	154
6	161	176	126	102	68	45	33	244	78	90	102	153
7	161	177	126	105	66	49	30	571	74	121	102	151
8	162	175	125	102	65	47	31	274	72	988	104	153
9	164	174	122	102	65	45	32	201	79	339	106	155
10	169	175	119	99	63	44	34	193	80	219	106	156
11	168	172	118	95	60	43	35	205	859	169	107	157
12	167	171	117	91	60	41	39	208	3650	136	107	160
13	170	171	119	88	60	41	40	147	2300	118	108	164
14	169	168	116	88	59	40	40	121	938	107	110	162
15	168	166	116	86	58	37	41	109	545	99	111	161
16	166	164	117	85	58	37	46	105	387	97	110	160
17	163	163	118	85	58	36	60	114	312	95	111	161
18	160	161	119	85	59	35	67	96	263	95	113	166
19	159	157	121	83	58	35	64	89	226	95	115	170
20	160	153	119	82	58	35	73	118	194	99	116	170
21	160	148	119	82	56	36	60	123	170	98	116	172
22	161	147	119	79	56	35	86	110	148	95	117	175
23	164	144	117	80	58	34	120	91	132	96	119	181
24	165	140	117	79	57	33	101	82	121	97	121	186
25	163	140	115	78	57	31	110	80	114	96	121	192
26	164	138	114	76	55	30	81	72	107	96	123	192
27	165	133	113	75	54	31	74	68	100	100	125	188
28	164	132	111	77	53	31	230	67	100	100	126	185
29	165		111	77	52	32	188	68	103	101	127	184
30	166		110	76	52	32	216	75	106	100	129	183
31	170		110		52		177	72		98		181
Total	5066	4509	3688	2683	1876	1170	2266	4857	11667	4397	3355	5142
Ac-ft	10048	8944	7315	5322	3721	2321	4495	9634	23141	8721	6655	10199

Total for year: 100,516 acre-feet

Drainage area.–7,896 sq. mi.

c:\my doc\yearly_rpt\2002\river.xls

2002

GILA RIVER AT CALVA, ARIZONA

Mean daily diversions, cubic feet per second

2002 Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	110	144	58	40	21	2.9		46	12	8.3	11	34
2	119	142	59	38	21	1.8		33	6.6	9.4	12	31
3	116	140	59	36	19	1.3		18	8.8	9.3	14	34
4	117	136	59	36	19	1.1		9.3	11	10	12	32
5	127	130	59	35	19	1.0		18	6.0	12	10	40
6	134	124	59	37	19	0.6		381	5.5	13	8.5	43
7	137	114	61	39	19	0.3		188	4.3	16	7.7	45
8	144	106	67	40	17	0.2		201	5.9	62	7.9	45
9	146	103	63	36	16	0.2		176	8.5	644	8.2	44
10	149	99	61	37	18	0.2		51	18	352	7.9	43
11	151	99	59	40	17	0.1		30	58	152	7.2	38
12	154	93	58	37	16	0.1		30	222	85	6.7	43
13	155	76	56	36	16	0.1		20	1300	52	8.0	46
14	158	60	55	36	14	0.1		33	1990	31	9.9	45
15	157	58	55	35	13	0.1		19	780	21	11	40
16	159	56	54	34	12	0.1		14	388	12	11	35
17	162	55	54	34	11	0.1		65	233	22	10	38
18	162	56	53	33	12	0.1		23	146	18	16	39
19	160	56	53	33	11		0.7	15	107	16	17	36
20	159	54	51	32	10	0.1	0.2	13	93	16	18	40
21	160	54	50	30	7.9			13	80	15	19	37
22	161	55	48	29	8.5			66	68	14	20	32
23	162	55	47	30	8.8			46	59	12	21	38
24	160	54	46	28	10			30	49	12	22	38
25	154	54	44	28	9.2	0.1		18	37	11	23	50
26	154	55	42	27	9.6	0.1		10	28	11	24	62
27	158	55	41	27	8.3	0.1	70	7.6	24	12	25	68
28	159	56	40	26	7.7	0.1	2.4	6.4	22	12	22	65
29	161		41	24	6.1		0.1	9.0	20	13	23	65
30	160		41	22	4.8	0.1	27	34	18	13	34	69
31	152		42		3.9		38	25		13		72
Total	4617	2339	1635	995	404.8	11.0	138.4	1648.3	5808.6	1699.0	447.0	1387
Ac-ft	9158	4639	3243	1974	803	22	275	3269	11521	3370	887	2751

Total for year: 41,912 acre-feet

Drainage area.--11,470 sq. mi.

c:\my doc\yearly_rpt\2002\river.xls

2002

SAN CARLOS RIVER NEAR PERIDOT, ARIZONA

Mean daily diversions, cubic feet per second

2002 Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	14	13	15	14	4.6			3.1				3.5
2	13	13	14	13	4.3			2.1				4.2
3	13	13	13	13	4.0			0.8				4.9
4	12	13	13	12	3.7							5.0
5	13	13	12	11	3.6							5.0
6	12	12	12	12	3.4			16				4.2
7	12	12	12	13	3.0			146				3.8
8	12	13	13	14	2.5			44				3.7
9	12	13	15	14	2.1			16				4.1
10	12	13	15	12	1.6			8.6				4.7
11	12	13	15	12	1.1			5.0				4.2
12	12	13	15	12	0.7			3.4				3.8
13	12	14	14	13	0.3			2.3				4.3
14	12	16	14	12				1.4				5.9
15	12	14	14	12	0.5			0.4				6.2
16	13	15	13	11	0.2			0.1				6.0
17	13	16	13	9.4				0.3				6.6
18	13	15	13	8.9								7.3
19	13	15	13	8.4			33				0.3	7.5
20	13	15	13	8.0			0.2				0.6	7.7
21	12	15	13	7.7							1.0	7.4
22	12	15	14	7.3							1.2	7.7
23	12	15	13	7.0							1.4	8.6
24	11	15	13	7.1							1.7	10
25	11	15	13	6.7							2.0	9.9
26	12	15	13	6.2							2.3	9.8
27	13	16	13	6.4							2.6	9.8
28	13	16	13	6.0							3.1	9.9
29	12		16	5.6							2.7	10
30	12		13	5.3			0.2				3.1	10
31	13		14				2.6					12
Total	383	396	419	300.0	35.6		36.0	249.6			22.0	207.7
Ac-ft	760	785	831	595	71		71	495			44	412

Total for year: 4,064 acre-feet

Drainage area.--1.026 sq. mi.

c:\my doc\yearly_rpt\2002\river.xls

2002

GILA RIVER BELOW COOLIDGE DAM, ARIZONA

Mean daily diversions, cubic feet per second

2002 Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	119	85	233	47	0.8	1.1	0.9	1.8	1.7	134	0.9	208
2	120	85	234	44	0.8	1.1	1.1	1.8	1.7	142	1.1	208
3	131	85	234	43	0.8	0.9	1.1	1.8	1.7	142	1.1	189
4	138	85	234	41	1.0	0.8	1.1	1.8	1.7	142	1.1	179
5	140	90	259	39	0.9	0.8	1.1	1.8	1.7	142	1.1	179
6	142	95	280	37	0.8	0.8	1.1	1.8	1.8	142	1.1	198
7	142	102	301	35	0.9	1.0	1.0	138	2.0	156	1.0	210
8	157	104	333	34	0.5	1.2	1.1	233	2.0	166	0.8	210
9	166	104	332	31	1.1	1.1	1.1	214	2.0	187	0.7	187
10	137	105	332	30	0.4	1.1	1.1	175	2.0	203	0.6	167
11	106	106	332	29	0.6	1.1	1.1	175	2.0	203	0.6	159
12	99	106	332	32	0.6	1.1	1.1	159	49	203	0.6	143
13	99	106	332	34	0.8	1.1	1.1	157	115	176	0.6	134
14	99	106	339	34	0.8	1.1	1.1	138	117	152	0.6	135
15	99	104	343	33	0.7	1.1	1.1	139	176	152	0.6	137
16	100	101	299	32	0.7	1.1	1.1	140	175	152	0.6	126
17	70	114	264	32	0.6	1.1	1.1	53	120	152	0.6	107
18	53	124	260	31	0.8	1.1	1.1	2.1	113	102	0.6	100
19	53	124	261	30	64	1.1	1.1	2.0	117	68	0.6	99
20	53	124	263	30	94	0.8	1.1	2.0	88	68	0.6	63
21	53	124	263	30	94	0.8	1.1	1.7	27	68	0.6	43
22	53	207	264	12	94	0.8	1.2	1.7	1.7	104	0.6	45
23	54	275	176	0.6	94	0.8	1.5	1.7	25	123	0.6	19
24	54	275	116	0.6	94	0.8	1.8	1.7	52	124	0.6	27
25	54	275	114	0.8	94	0.8	2.2	1.5	49	45	0.6	42
26	74	275	110	0.8	34	0.8	2.0	1.3	53	0.8	0.6	53
27	85	266	109	0.9	1.1	0.8	2.1	1.3	86	0.8	0.5	60
28	85	248	110	0.8	1.1	0.8	1.9	1.1	118	0.8	0.4	69
29	85		111	0.8	1.1	0.8	1.7	1.3	118	0.8	136	74
30	85		110	0.8	1.1	0.8	1.7	1.2	122	0.8	208	74
31	85		78		1.1		1.1	1.1		0.8		75
Total	2990	4000	7358	746.1	681.0	28.6	40.0	1753.5	1742.0	3452.8	364.0	3719
Ac-ft	5931	7934	14595	1480	1351	57	79	3478	3455	6849	722	7377

Total for year: 53,308 acre-feet

Drainage area.–12,886 sq. mi.

c:\my doc\yearly_rpt\2002\river.xls

2002

NATURAL FLOW RELEASED AT COOLIDGE DAM

Mean daily diversions, cubic feet per second

2002 Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	119	85	73	47				2.0	2.0	8.0		38
2	120	85	73	44				2.0	2.0	9.0		35
3	129	85	72	43				2.0	2.0	9.0		39
4	129	85	72	41				2.0	2.0	10		37
5	140	90	71	39				2.0	2.0	12		45
6	142	95	71	37				2.0	2.0	13		47
7	142	102	73	35				138	2.0	16		49
8	156	104	80	34				233	2.0	62		49
9	158	104	78	31				192	2.0	187		48
10	137	105	76	30				60	2.0	203		48
11	106	106	74	29				35	2.0	152		42
12	99	106	73	32				33	49	85		47
13	99	90	70	34				22	115	52		50
14	99	76	69	34				34	117	31		51
15	99	72	69	33				19	176	21		46
16	100	71	67	32				14	175	12		41
17	70	71	67	32				53	120	22		45
18	53	71	66	31				2.0	113	18		46
19	53	71	66	30	64			2.0	107	16		44
20	53	69	64	30	94			2.0	88	16		48
21	53	69	63	30	94			2.0	27	15		43
22	53	70	62	12	94			2.0	2	14		40
23	54	70	60		94			2.0	25	12		19
24	54	69	59		94			2.0	49	12		27
25	54	69	57		94			2.0	37	11		42
26	74	70	55		34			1.0	28			53
27	85	71	54					1.0	24			60
28	85	72	53					1.0	22			69
29	85		57					1.0	20		26	74
30	85		54					1.0	18		37	74
31	85		56					1.0				75
Total	2970	2303	2054	740	662			867	1334	1018	63	1471
Ac-ft	5891	4568	4074	1468	1313			1720	2646	2019	125	2918

Total for year: 26,742 acre-feet

c:\my doc\yearly_rpt\2002\river.xls

2002

STORED WATER RELEASED AT COOLIDGE DAM

Mean daily diversions, cubic feet per second

2002 Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1			160							126		170
2			161							133		173
3	2		162							133		150
4	9		162							132		142
5			188							130		134
6			209							129		151
7			228							140		161
8	1		253							104		161
9	8		254					22				139
10			256					115				119
11			258					140		51		117
12			259					126		118		96
13		16	262					135		124		84
14		30	270					104		121		84
15		32	274					120		131		91
16		30	232					126		140		85
17		43	197							130		62
18		53	194							84		54
19		53	195						10	52		55
20		55	199							52		15
21		55	200							53		
22		137	202							90		5
23		205	116							111		
24		206	57						3	112		
25		206	57						12	34		
26		205	55						25			
27		195	55						62			
28		176	57						96			
29			54						98		110	
30			56						104		171	
31			22									
Total	20	1697	5304					888	410	2430	281	2248
Ac-ft	40	3366	10520					1761	813	4820	557	4459

Total for year: 26,336 acre-feet

c:\my doc\yearly_rpt\2002\river.xls

2002

GILA RIVER AT KELVIN, ARIZONA

Mean daily diversions, cubic feet per second

2002 Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	137	96	261	82	8.2	2.0		0.1	11	81	3.7	104
2	137	97	239	68	8.1	2.4	0.1		8.5	92	2.7	140
3	139	97	235	55	7.6	1.4			7.7	102	2.2	154
4	147	97	236	47	7.2	0.9	0.1		1.0	105	3.6	141
5	156	96	237	43	6.8	0.8	0.2	175	0.7	107	4.7	137
6	156	96	275	39	6.3	0.7	0.1	37	1.3	108	5.3	139
7	157	102	305	36	5.9	0.6		71	2.1	110	6.7	155
8	157	104	346	33	5.4	0.5		48	2.9	118	6.2	167
9	171	104	379	31	4.9	0.5	0.2	138	15	127	6.1	171
10	182	102	379	29	4.5	0.4	0.2	167	53	139	6.9	151
11	156	100	375	27	4.0	0.4	0.2	125	520	154	3.0	136
12	130	99	378	26	3.7	0.3	0.2	129	80	160	1.8	129
13	122	98	368	24	3.2	0.3	0.1	103	19	161	1.5	122
14	120	96	366	23	2.8	0.3	0.1	75	17	143	0.8	115
15	119	95	374	23	2.4	0.2	0.2	70	52	124	0.6	116
16	118	94	382	22	2.0	0.3	0.2	70	93	125	0.5	117
17	117	89	327	22	1.8	0.2	0.2	83	122	125	0.4	115
18	110	93	280	21	1.4	0.2	0.2	70	88	126	0.5	104
19	103	105	269	20	1.1	0.2	0.2	28	84	102	0.6	88
20	96	107	258	19	0.9	0.2	0.1	15	83	52	0.7	86
21	89	107	257	19	0.8	0.2		8.2	77	45	0.7	77
22	82	106	254	18	0.7	0.2		6.8	47	42	0.8	45
23	75	172	258	18	2.2	0.1		6.3	30	56	0.9	42
24	73	260	184	17	12	0.1		5.5	22	95	1.0	41
25	71	267	116	15	17	0.1		5.1	18	101	1.0	33
26	71	275	107	13	19	0.1		5.8	22	76	1.1	30
27	76	283	100	12	21			4.8	27	24	1.1	35
28	93	270	95	10	13		2.1	4.5	31	15	1.3	43
29	95		95	9.2	7.4		34	4.4	63	11	1.9	48
30	96		95	8.7	4.3		10	3.8	74	7.6	3.0	59
31	97		96		2.3		2.6	11		5.3		62
Total	3648	3707	7926	829.9	187.9	13.6	51.3	1470.3	1672.2	2838.9	71.3	3102
Ac-ft	7236	7353	15721	1646	373	27	102	2916	3317	5631	141	6153

Total for year: 50,616 acre-feet

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

c:\my doc\yearly_rpt\2002\river.xls

2002

OPERATION OF SAN CARLOS RESERVOIR

Quantities in acre-feet

2002 Month	Storage			Inflow				Releases			Bank	
	Beginning Storage	Ending Storage	Gain or Loss	Calva	Peridot	Rain	Total	Gila River below Coolidge Dam	Reservoir Evapor-ation	Total	Storage	Release
January	67448	70452	3004	9158	760	31	9949	5931	653	6584	361	
February	70452	68343	-2109	4639	785		5424	7934	1101	9035		-1502
March	68343	57336	-11007	3243	831	106	4180	14595	1702	16297		-1110
April	57336	56850	-486	1974	595	53	2622	1480	2236	3716		-608
May	56850	54005	-2845	803	71		874	1351	2867	4218		-499
June	54005	51551	-2454	22			22	57	3431	3488		-1012
July	51551	49635	-1916	275	71	362	708	79	2901	2980		-356
August	49635	45446	-4189	3269	495	323	4087	3478	2474	5952	2324	
September	45446	48883	3437	11521		158	11679	3455	1982	5437	2805	
October	48883	43251	-5632	3370		45	3415	6849	1263	8112	935	
November	43251	42078	-1173	887	44	56	987	722	812	1534	626	
December	42078	36776	-5302	2751	412	269	3432	7377	395	7772	962	
Totals			-30672	41912	4064	1403	47379	53308	21817	75125	8013	-5087

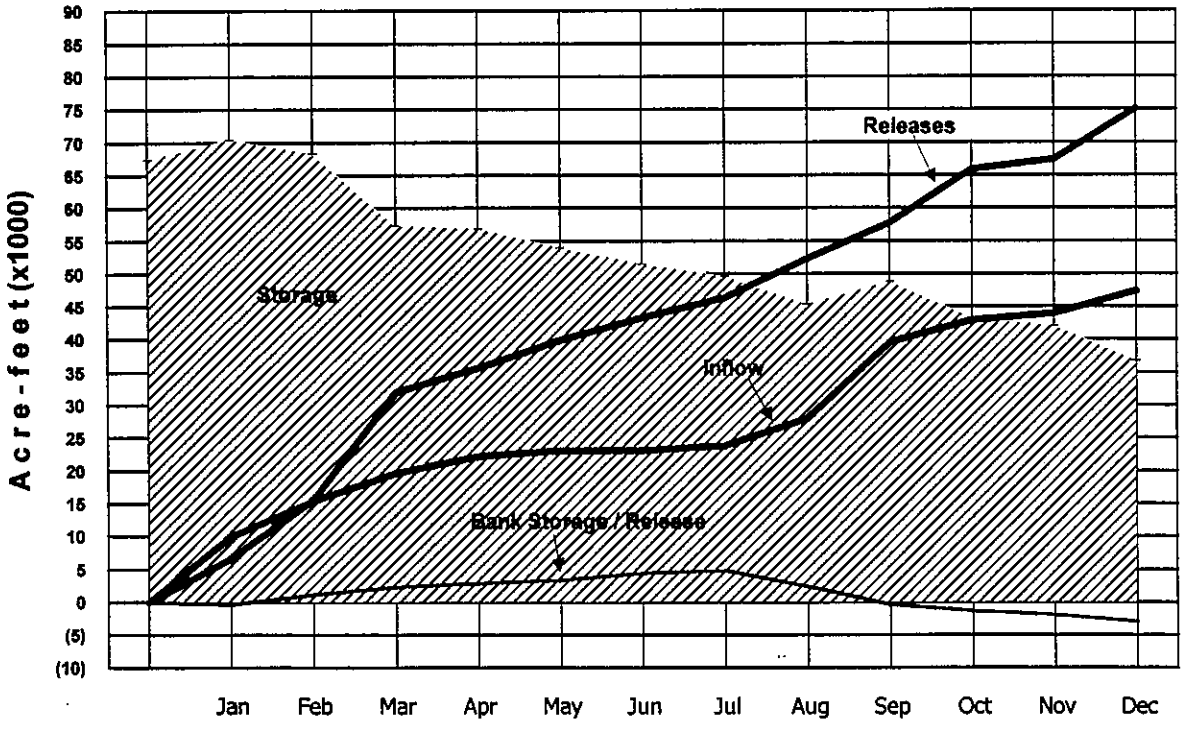
c:\my doc\yearly_rpt\2002\river.xls

2002

MASS DIAGRAM OF OPERATION OF SAN CARLOS RESERVOIR

In Acre-feet

	Storage		Accumulated Inflow	Accumulated Releases	Accumulated Bank			Monthly
Month	Contents End of Month	Contents Gain or Loss	Including Rain	Including Evaporation	Storage	Release	Net Result	Bank Result
Begin	67,448							
JAN	70,452	3004	9,949	6,584	361		-361	361
FEB	68,343	-2109	15,373	15,619		1502	1141	-1502
MAR	57,336	-11007	19,553	31,916		2612	2251	-1110
APR	56,850	-486	22,175	35,632		3220	2859	-608
MAY	54,004	-2846	23,049	39,850		3718	3357	-498
JUN	51,551	-2453	23,071	43,338		4730	4370	-1013
JUL	49,635	-1916	23,779	46,318		5086	4726	-356
AUG	45,446	-4189	27,866	52,270	2685		2402	2324
SEP	48,883	3437	39,545	57,707	5490		-403	2805
OCT	43,251	-5632	42,960	65,819	6425		-1338	935
NOV	42,078	-1173	43,947	67,353	7051		-1964	626
DEC	36,776	-5302	47,379	75,125	8013		-2926	962
Graph:	STORAGE		INFLOW	RELEASES	BANK STOR/REL			



c:\lotus\wk\123\yearly\2002\masopr_02.123

2002

WATER SURFACE ELEVATIONS, SAN CARLOS RESERVOIR

Elevation in feet

2002 Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	2427.32	2428.13	2427.46	2424.50	2424.32	2423.46	2422.76	2422.17	2420.87	2421.92	2420.22	2419.72
2	2427.31	2428.17	2427.35	2424.49	2424.31	2423.46	2422.74	2422.18	2420.54	2421.78	2420.21	2419.61
3	2427.30	2428.21	2427.24	2424.50	2424.32	2423.42	2422.72	2422.14	2420.84	2421.68	2420.20	2419.50
4	2427.28	2428.25	2427.18	2424.51	2424.33	2423.40	2422.68	2422.12	2420.82	2421.59	2420.19	2419.40
5	2427.27	2428.28	2427.07	2424.51	2424.32	2423.40	2422.66	2422.11	2420.80	2421.49	2420.18	2419.28
6	2427.27	2428.30	2426.96	2424.50	2424.31	2423.40	2422.65	2422.14	2420.74	2421.39	2420.16	2419.17
7	2427.26	2428.32	2426.81	2424.51	2424.29	2423.37	2422.62	2422.06	2420.74	2421.29	2420.17	2419.04
8	2427.25	2428.35	2426.71	2424.52	2424.29	2423.34	2422.59	2421.92	2420.78	2421.20	2420.19	2418.93
9	2427.25	2428.34	2426.57	2424.54	2424.29	2423.30	2422.58	2421.84	2420.78	2421.11	2420.12	2418.82
10	2427.25	2428.36	2426.42	2424.53	2424.24	2423.25	2422.56	2421.74	2420.81	2421.21	2420.12	2418.72
11	2427.25	2428.38	2426.28	2424.54	2424.23	2423.26	2422.52	2421.66	2420.82	2421.22	2420.11	2418.63
12	2427.28	2428.38	2426.14	2424.54	2424.23	2423.24	2422.50	2421.55	2420.81	2421.17	2420.07	2418.55
13	2427.30	2428.40	2426.03	2424.55	2424.22	2423.21	2422.50	2421.44	2420.77	2421.03	2420.08	2418.47
14	2427.33	2428.40	2425.78	2424.53	2424.19	2423.21	2422.52	2421.35	2421.50	2421.00	2420.08	2418.41
15	2427.36	2428.40	2425.63	2424.49	2424.20	2423.16	2422.42	2421.24	2422.15	2420.90	2420.07	2418.35
16	2427.40	2428.39	2425.49	2424.50	2424.18	2423.14	2422.43	2421.14	2422.37	2420.81	2420.07	2418.26
17	2427.44	2428.37	2425.38	2424.46	2424.18	2423.12	2422.46	2421.12	2422.44	2420.69	2420.07	2418.20
18	2427.47	2428.35	2425.28	2424.45	2424.16	2423.10	2422.40	2421.10	2422.44	2420.64	2420.05	2418.18
19	2427.54	2428.34	2425.16	2424.41	2424.08	2423.06	2422.39	2421.07	2422.44	2420.59	2420.05	2418.12
20	2427.60	2428.31	2425.03	2424.40	2423.98	2423.05	2422.40	2421.06	2422.42	2420.55	2420.04	2418.10
21	2427.66	2428.28	2424.94	2424.42	2423.90	2423.00	2422.36	2421.04	2422.43	2420.50	2420.04	2418.09
22	2427.72	2428.21	2424.82	2424.40	2423.82	2422.99	2422.36	2421.03	2422.44	2420.43	2420.04	2418.08
23	2427.78	2428.11	2424.72	2424.38	2423.77	2422.96	2422.35	2421.01	2422.43	2420.34	2420.04	2418.09
24	2427.85	2427.97	2424.65	2424.40	2423.70	2422.93	2422.33	2421.00	2422.42	2420.26	2420.04	2418.09
25	2427.90	2427.87	2424.66	2424.41	2423.64	2422.94	2422.33	2420.98	2422.40	2420.25	2420.04	2418.08
26	2427.92	2427.75	2424.63	2424.32	2423.60	2422.89	2422.31	2420.95	2422.31	2420.25	2420.07	2418.07
27	2427.97	2427.66	2424.60	2424.36	2423.58	2422.88	2422.30	2420.94	2422.26	2420.24	2420.03	2418.06
28	2428.01	2427.55	2424.61	2424.36	2423.57	2422.84	2422.29	2420.90	2422.18	2420.24	2420.03	2418.05
29	2428.05		2424.51	2424.38	2423.56	2422.83	2422.28	2420.92	2422.08	2420.23	2419.95	2418.05
30	2428.09		2424.50	2424.36	2423.54	2422.80	2422.23	2420.89	2421.99	2420.22	2419.84	2418.03
31	2428.11		2424.50		2423.53		2422.22	2420.92		2420.22		2418.04

c:\my doc\yearly_rpt\2002\reservoir.xls

2002

WATER SURFACE AREAS, SAN CARLOS RESERVOIR

Area in acres

2002 Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	3722	3791	3738	3477	3463	3390	3327	3277	3164	3256	3105	3056
2	3722	3794	3729	3477	3461	3386	3325	3275	3160	3247	3105	3042
3	3721	3797	3720	3477	3461	3385	3323	3273	3159	3236	3104	3028
4	3719	3800	3712	3478	3462	3382	3320	3271	3158	3229	3103	3013
5	3718	3804	3705	3478	3462	3381	3318	3270	3156	3220	3102	2998
6	3717	3805	3696	3478	3461	3381	3317	3271	3153	3211	3101	2984
7	3717	3807	3684	3478	3459	3380	3315	3268	3150	3203	3101	2968
8	3716	3810	3673	3479	3458	3377	3313	3259	3152	3195	3101	2952
9	3716	3811	3663	3479	3458	3374	3311	3249	3153	3186	3100	2937
10	3716	3811	3650	3480	3457	3370	3309	3241	3155	3186	3097	2923
11	3716	3812	3638	3480	3454	3369	3307	3234	3157	3192	3097	2911
12	3717	3813	3625	3480	3453	3368	3304	3226	3157	3190	3094	2899
13	3719	3814	3614	3481	3453	3366	3303	3216	3154	3181	3093	2888
14	3722	3815	3599	3480	3452	3365	3304	3208	3185	3175	3093	2879
15	3724	3815	3582	3478	3451	3363	3300	3199	3245	3169	3093	2871
16	3726	3815	3568	3477	3450	3360	3297	3189	3282	3160	3092	2862
17	3730	3813	3558	3475	3449	3358	3299	3184	3295	3151	3092	2851
18	3733	3811	3549	3473	3448	3356	3297	3182	3298	3144	3091	2846
19	3738	3811	3539	3471	3444	3353	3294	3180	3298	3140	3091	2841
20	3743	3809	3530	3469	3436	3351	3294	3179	3297	3135	3090	2835
21	3748	3806	3519	3469	3428	3349	3292	3177	3297	3132	3090	2834
22	3753	3802	3509	3469	3421	3346	3291	3176	3298	3127	3090	2833
23	3759	3794	3500	3467	3416	3344	3291	3175	3298	3120	3090	2833
24	3765	3784	3493	3467	3411	3342	3289	3174	3297	3112	3090	2833
25	3770	3774		3469	3404	3341	3288	3172	3295	3108	3090	2833
26	3773	3764		3465	3400	3340	3288	3170	3291	3108	3091	2831
27	3776	3755		3463	3397	3337	3287	3169	3285	3108	3091	2830
28	3779	3747		3464	3396	3334	3286	3166	3279	3107	3089	2829
29	3783			3465	3396	3333	3285	3165	3271	3107	3085	2828
30	3786			3465	3394	3331	3282	3165	3263	3106	3073	2826
31	3789				3393		3280	3165		3105		2826

c:\my doc\yearly_rpt\2002\reservoir.xls

2002

AVAILABLE STORED WATER, SAN CARLOS RESERVOIR

Storage in acre-feet

2002 DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	67485	70528	68007	57336	56711	53767	51418	49471	45288	48655	43251	41711
2	67448	70679	67597	57301	56677	53767	51352	49504	45193	48200	43220	41376
3	67411	70831	67188	57336	56711	53632	51285	49373	45193	47877	43189	41044
4	67337	70984	66965	57371	56746	53564	51153	49307	45130	47587	43158	40742
5	67299	71098	66557	57371	56711	53564	51086	49275	45067	47265	43127	40382
6	67299	71174	66151	57336	56677	53564	51053	49373	44877	46943	43065	40055
7	67262	71250	65599	57371	56608	53463	50953	49112	44877	46623	43096	39668
8	67225	71365	65231	57406	56608	53361	50854	48655	45004	46336	43158	39344
9	67225	71326	64719	57475	56608	53226	50821	48395	45004	46049	42941	39021
10	67225	71403	64171	57440	56435	53058	50722	48071	45099	46368	42941	38728
11	67225	71479	63661	57475	56401	53092	50622	47813	45130	46400	42910	38467
12	67337	71479	63154	57475	56401	53024	50556	47458	45099	46240	42786	38235
13	67411	71555	62757	57510	56366	52924	50556	47104	44972	45794	42817	38004
14	67523	71555	61857	57440	56263	52924	50622	46815	47297	45699	42817	37831
15	67634	71555	61320	57301	56297	52756	50292	46464	49406	45383	42786	37659
16	67783	71517	60820	57336	56228	52688	50325	46145	50127	45099	42786	37401
17	67932	71441	60429	57197	56228	52621	50424	46081	50358	44720	42786	37230
18	68044	71365	60074	57163	56159	52554	50226	46017	50358	44563	42725	37173
19	68306	71326	59649	57024	55883	52420	50193	45922	50358	44406	42725	37003
20	68530	71212	59191	56989	55540	52387	50226	45890	50292	44281	42694	36946
21	68755	71098	58874	57058	55266	52219	50094	45826	50325	44124	42694	36918
22	68980	70831	58453	56989	54992	52186	50094	45794	50358	43905	42694	36889
23	69206	70452	58103	56920	54821	52085	50062	45731	50325	43624	42694	36918
24	69470	69923	57859	56989	54582	51985	49996	45699	50292	43376	42694	36918
25	69658	69545	57893	57024	54378	52018	49996	45636	50226	43345	42694	36889
26	69734	69093	57789	56711	54242	51851	49930	45541	49930	43345	42786	36861
27	69923	68755	57684	56850	54174	51817	49897	45509	49766	43313	42663	36833
28	70074	68343	57719	56850	54140	51684	49864	45383	49504	43313	42663	36805
29	70225		57371	56920	54106	51651	49831	45446	49177	43282	42416	36805
30	70376		57336	56850	54039	51551	49667	45351	48883	43251	42078	36748
31	70452		57336		54004		49635	45446		43251		36776

c:\my doc\yearly_rpt\2002\reservoir.xls

2002

DAILY EVAPORATION, SAN CARLOS RESERVOIR

Acre-feet

2002 DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	14	3	61	69	99	118	141	96	68	72	32	7
2	23	17	65	85	54	123	122	95	81	59	32	19
3	13	17	46	83	72	122	123	65	88	58	34	9
4	14	20	40	74	76	100	118	62	75	50	20	17
5	15	20	38	53	79	108	110	53	69	42	33	17
6	19	46	40	68	88	100	115	66	75	58	27	11
7	9	22	48	41	87	99	106	63	89	44	29	15
8	24	25	55	68	90	112	110	59	53	19	24	9
9	13	44	39	39	95	131	95	80	25	39	35	18
10	16	54	40	65	77	128	88	85	46	44	36	19
11	19	36	52	66	107	111	84	98	37	48	32	13
12	22	44	69	81	91	96	88	90	41	50	32	19
13	19	26	57	82	92	109	92	105	55	37	37	20
14	27	36	74	79	92	116	104	120	70	54	8	11
15	20	44	66	100	127	112	107	113	70	44	47	13
16	14	35	51	98	99	112	82	90	79	33	41	13
17	24	45	48	58	105	127	71	81	63	50	32	13
18	20	53	48	79	86	122	73	76	80	43	21	11
19	31	38	54	85	123	113	94	97	81	37	22	12
20	19	46	64	89	91	110	86	73	70	36	23	15
21	21	54	44	76	112	132	80	44	74	26	29	11
22	20	56	61	67	81	126	90	43	64	38	26	4
23	27	47	58	80	76	118	62	89	71	37	5	9
24	25	55	80	95	101	101	92	87	78	31	42	8
25	27	61	85	92	87	124	76	80	77	37	22	8
26	25	57	36	76	98	121	80	82	56	36	13	8
27	19	62	63	95	80	114	84	107	69	39	18	5
28	53	38	65	62	82	107	71	86	64	19	24	9
29	2		67	76	105	119	84	68	54	29	22	13
30	25		29	55	101	100	76	60	60	29	14	32
31	34		59		114		97	61		25		7
Total	653	1101	1702	2236	2867	3431	2901	2474	1982	1263	812	395

Total for year: 21,817 acre-feet

c:\my doc\yearly_rpt\2002\reservoir.xls

2002

DAILY RAINFALL, SAN CARLOS RESERVOIR

Acre-feet

2002 DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1										19		
2												10
3												43
4												
5								14				
6								164				
7				41								
8			83									
9							14		81			
10							11		16			
11									61			
12												
13												
14												
15							52					
16							5					
17								21				19
18												95
19							16	8				12
20							14					
21												7
22								26				
23							58					12
24	9						153					59
25							25					
26												
27				12			14			16		
28										10		
29			9					69			5	
30			14					21			51	12
31	22											
Total	31		106	53			362	323	158	45	56	269

Total for year: 1,403 acre-feet

c:\my doc\yearly_rpt\2002\reservoir.xls

2002

RAINFALL AT COOLIDGE DAM

Elevation approximately 2,550 feet

inches

2002 DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1										0.07		T
2												0.04
3												0.17
4												
5								0.05				
6								0.60				
7				0.14								
8			0.27									
9							0.05		0.31			
10							0.04		0.06			
11									0.23			
12												
13												
14												
15							0.19					
16							0.02					
17								0.08				0.08
18												0.40
19							0.06	0.03				0.05
20							0.05					
21												0.03
22								0.10				
23							0.21					0.05
24	0.03						0.56					0.25
25							0.09					
26												
27				0.04			0.05			0.06	T	
28										0.04		
29			0.03					0.26			0.02	
30			0.05					0.08			0.20	0.05
31	0.07											
Total	0.10	0.00	0.35	0.18	0.00	0.00	1.32	1.20	0.60	0.17	0.22	1.12

Note: T-Trace

Total for year: 5.26 inches

c:\my doc\yearly_rpt\2002\rain.xls

1956 - 2002

MONTHLY RAINFALL AT COOLIDGE DAM

Inches

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

Note: T-Trace

c:\my doc\yearly_rpt\2002\rain.xls