

PECOS RIVER COMPACT

Report of the River Master

Water Year 1999

Accounting Year 2000

Final Report

June 26, 2000

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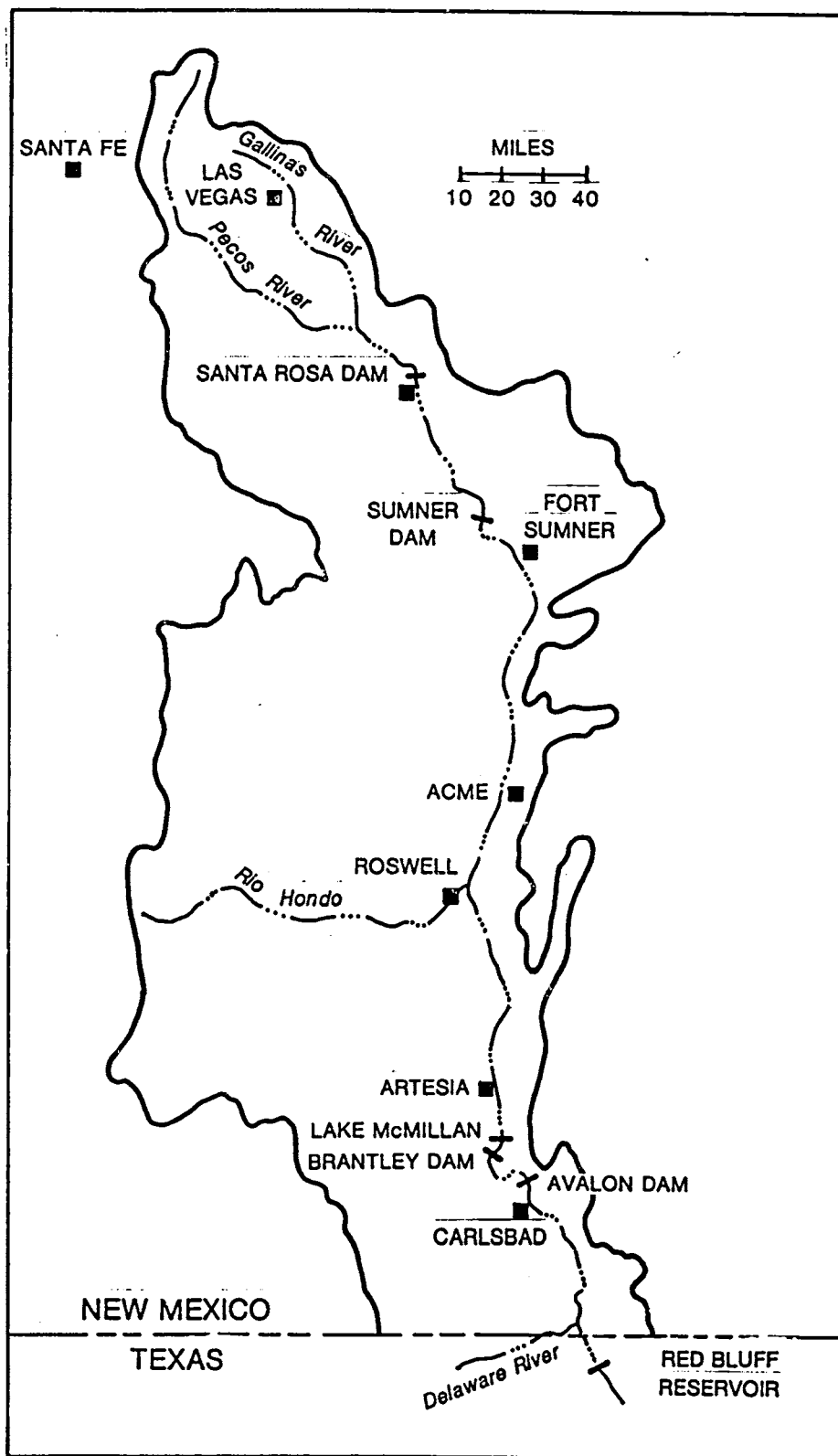
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Handwritten text, likely bleed-through from the reverse side of the page. The text is mostly illegible due to fading and bleed-through, but appears to be organized into several paragraphs. Some words are more legible than others, such as "the", "and", "of", "in", "on", "at", "from", "to", "by", "with", "without", "under", "over", "above", "below", "between", "among", "against", "towards", "from", "to", "by", "with", "without", "under", "over", "above", "below", "between", "among", "against", "towards".



Map of Pecos River Basin Showing Accounting Reaches

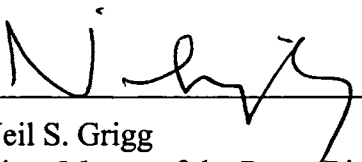
PECOS RIVER COMPACT
Supreme Court of the United States
No. 65, Original
Amended Decree

Final Report of the River Master
Water Year 1999 - Accounting Year 2000
June 26, 2000

Purpose of the Report. In its Amended Decree issued March 28, 1988 the Supreme Court of the United States appointed a River Master of the Pecos River and directed him to "... Deliver to the parties a Preliminary Report setting forth the tentative results of the calculations required by Section III.B.1 of this Decree by May 15 of the accounting year..." and to consider "... any written objections to the Preliminary Report submitted by the parties prior to June 15 of the accounting year..." and to deliver "... to the parties a Final Report setting forth the final results of the calculations required by Section III.B.1 of this Decree by July 1 of the accounting year." This is the required Final Report with the determination of:

- a. The Article III(a) obligation;
- b. Any shortfall or overage, which calculation shall disregard deliveries of water pursuant to an Approved Plan;
- c. The net shortfall, if any, after subtracting any overages accumulated in previous years, beginning with water year 1987.

Result of Calculations and Statement of Shortfall or Overage. The results of the calculations in this Final Report show that New Mexico's delivery in Water Year 1999 was an overage of 1,400 acre-feet. The accumulated overage since the beginning of Water Year 1987 is 22,900 acre-feet.



Neil S. Grigg
River Master of the Pecos River

Pecos River Compact		
Accumulated Shortfall or Overage		
	June 24, 2000	
Water Year	Annual Overage or Shortfall, AF	Accumulated Overage or Shortfall, AF
1987	15,400	15,400
1988	23,600	39,000
1989	2,700	41,700
1990	-14,100	27,600
1991	-16,500	11,100
1992	10,900	22,000
1993	6,600	28,600
1994	5,900	34,500
1995	-14,100	20,400
1996	-6,700	13,700
1997	6,100	19,800
1998	1,700	21,500
1999	1,400	22,900

Table 1. General Calculation of Annual Departures, TAF, WY 99			
	6/24/00		
	1997	1998	1999
B.1.a. Index Inflows			
(1) Annual flood inflow			
(a) Gaged flow Pecos R bel Alamogordo Dam	160.0	191.1	96.8
(b) Flood Inflow Alamogordo - Artesia (Table 2)	13.2	6.2	37.4
(c) Flood Inflow Artesia - Carlsbad (Table 3)	1.0	4.7	16.1
(d) Flood Inflow Carlsbad - State Line (Table 4)	6.6	1.4	21.9
Total (annual flood inflow)	180.8	203.4	172.2
(2) Index Inflow (3-year avg)			185.5
B.1.b. 1947 Condition Delivery Obligation (Index Outflow)			82.8
B.1.c. Average Historical (Gaged) Outflow			
Gaged Flow Pecos River at Red Bluff NM	98.1	66.7	75.2
Gaged Flow Delaware River nr Red Bluff NM	2.5	0.9	6.6
(1) Total Annual Historical Outflow	100.6	67.6	81.8
(2) Average Historical Outflow (3-yr average)			83.3
B.1.d. Annual Departure			0.5
C. Adjustments to Computed Departure			
1. Adjustments for Depletions above Alam Dam			
a. Depletions Due to Irrigation (Table 5)	-3.6	0.7	-3.4
b. Depl fr Operation of Santa Rosa Reservoir (Table 6)	0.6	3.9	3.6
c. Transfer of Water Use to Upstream of AD	0	0	0
Recomputed Index Inflows			
(1) Annual flood inflow			
(a) Gaged flow Pecos R bel Alamogordo Dam	157.0	195.7	97.0
(b) Flood Inflow Alamogordo - Artesia	13.2	6.2	37.4
(c) Flood Inflow Artesia - Carlsbad	1.0	4.7	16.1
(d) Flood Inflow Carlsbad - State Line	6.6	1.4	21.9
Total (annual flood inflow)	177.8	208.0	172.4
Recomputed Index Inflow (3-year avg)			186.1
Recomputed 1947 Condition Del Outflow (Index Outflow)			83.2
Recomputed Annual Departures			0.1
Credits to New Mexico			
C.2 Depletions Due to McMillan Dike			1.3
C.3 Salvage Water Analysis			0
C.4 Unappropriated Flood Waters			0
C.5 Texas Water Stored in NM Reservoirs			0
C.6 Beneficial C.U. Delaware River Water			0
Final Calculated Departure, TAF			1.4

the 1990s, the number of people in the world who are under 15 years of age is expected to increase from 1.1 billion to 1.5 billion. The number of people aged 65 and over is expected to increase from 250 million to 450 million. The number of people aged 15 and over is expected to increase from 3.5 billion to 4.5 billion. The number of people aged 15 and over is expected to increase from 3.5 billion to 4.5 billion. The number of people aged 15 and over is expected to increase from 3.5 billion to 4.5 billion.

[illegible]

Table 2. Determination of Flood Inflows, Alamogordo Dam to Artesia (B.3)

Table 3. Determination of Flood Inflows, Artesia to Carsbad, WY 1999 (B.4)

Table 4. Summary Table for Computations, Carlsbad to State Line - WY 99							
4/29/00							
	BCB - RB	BCB - RB	Del R	DC			
	RM	USGS	USGS				
Jan	75	20	0	0			
Feb	0	24	0	0			
Mar	56	89	0	0			
Apr	0	601	16	0			
May	548	268	35	0			
Jun	13672	13490	5570	0			
Jul	1632	1210	3	0			
Aug	0	26	5	0			
Sep	0	22	85	0			
Oct	179	180	0	0			
Nov	0	0	0	0			
Dec	0	0	0	0			
Total	16162	15930	5714	0			
Summary of flood inflows, Carlsbad to State Line, TAF							
Carlsbad - Red Bluff + Dark C				16.2			
Delaware River (USGS Computation				5.7			
Total Flood Inflow, Carlsbad to State Line				21.9			

Table 5. Depletions Due to Irrigation Above Alamogordo Dam - WY 1999 (C.1.a)											
	4/29/00	APR	MAY	JUN	JUL	AUG	SEPT	OCT	TOTAL		
Precip Las Vegas FAA AP		1.66	2.87	2.53	1.54	6.97	3.22	0.02	18.81		
Eff prec Las Veg FAA AP		1.54	2.50	2.24	1.44	4.10	2.75	0.02	14.59		
Precip Pecos Natl Monument		1.69	1.25	1.93	3.03	5.28	2.14	0.44	15.76		
Eff Precip Pecos RS		1.57	1.19	1.77	2.61	3.90	1.94	0.43	13.41		
Precip Santa Rosa		3.96	2.44	0.91	2.79	2.89	1.64	0.55	15.18		
Eff Precip Santa Ro		3.28	2.17	0.88	2.43	2.51	1.53	0.54	13.34		
Average eff precip, ft		0.18	0.16	0.14	0.18	0.29	0.17	0.03	1.15		
Consumptive use, ft		0.19	0.36	0.36	0.30	0.27	0.18	0.11	1.77		
CU less eff precip, ft		0.01	0.20	0.22	0.12	0.00	0.01	0.08	0.64		
Acres (most recent inventory)		11529									
Streamflow depletion, AF		7420									
1947 depletion, AF		10804									
Difference, TAF		3.4									
Adjustment to Gaged Flow - Pecos River below Alamogordo Dam =							-3.4				

1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes that proper record-keeping is essential for transparency and accountability, particularly in financial matters. The text suggests that organizations should implement robust systems to track every detail, from small expenses to major investments, to ensure that all data is reliable and accessible.

2. The second section focuses on the role of technology in modern record-keeping. It highlights how digital tools and software can significantly reduce the risk of human error and improve the efficiency of data management. The author argues that adopting cloud-based solutions can facilitate real-time updates and secure storage, making it easier for stakeholders to access information when needed.

3. The third part of the document addresses the challenges associated with data security and privacy. It notes that as organizations collect more data, the potential for breaches and misuse increases. To mitigate these risks, the text recommends implementing strong encryption protocols, regular security audits, and strict access controls. Additionally, it stresses the importance of educating employees about data protection policies to ensure they are followed consistently.

4. The fourth section discusses the legal and regulatory requirements that govern record-keeping. It mentions that various industries are subject to specific laws and standards, which must be carefully followed to avoid penalties and legal consequences. The author advises organizations to stay up-to-date with the latest regulations and consult with legal counsel to ensure full compliance at all times.

5. The final part of the document provides a summary of the key points and offers some concluding thoughts. It reiterates that while record-keeping may seem like a mundane task, it is in fact a critical component of any successful organization. By following the guidelines outlined in the document, organizations can ensure that their records are accurate, secure, and compliant, ultimately leading to better decision-making and operational performance.

Table 6. Depletions Due to Santa Rosa Reservoir Operations - WY 1999 - (C.1.b)

Table 7. Carlsbad Springs New Water WY 1999 - (B.4.c)					
4/29/00					
		TAF	cfs	Totals	
Pecos R bel DC, cfs	29.0		40.1	40.1	
Dark Canyon, cfs	0		0.0	0.0	
Pecos R bel Lake Av,	17.1		23.6	23.6	
Depletion, cfs				2.0	
CID lag seep, cfs (Table 8)				9.0	
Return flow, cfs				1.0	
Lake Av lagged seep, cfs (Table 9)				17.3	
PR seepage, cfs				3.0	
Carls new water, cfs				-11.9	
Carls new wat, TAF				-8.6	
Carls new wat monthly, TAF				-0.7	

Table 8. Carlsbad Main Canal Seepage Lagged - WY 1999 - [B.4.c.(1)(e)]													
4/29/00	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	TOTAL
WY 1999													
CID, TAF	0.0	0.0	3.7	15.0	12.2	10.4	14.0	16.7	12.4	13.4	0.0	0.0	97.8
days/mo	31	28	31	30	31	30	31	31	30	31	30	31	365
cfs	0.0	0.0	59.7	251.7	198.2	175.1	227.8	271.9	208.2	217.6	0.0	0.0	134.2
cfs, qtr avg			20.6			208.3			236.3			73.3	
1998		1Q	2Q	3Q	4Q								
FLows, cfs				203.5	35.7								
SEVEN %				14.2	2.5								
1999		1Q	2Q	3Q	4Q								
FLows, cfs		20.6	208.3	236.3	73.3								
SEVEN %		1.4	14.6	16.5	5.1								
LAG		3.9	8.2	13.4	10.5	Avg =	9.0	cfs					

Table 9. Lake Avalon Leakage Lagged - WY 1999 - B.4.c.(1)(g)												
4/29/00												
WY 1999	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
												TOT
ga ht, avg	18.41	19.55	19.29	15.67	15.73	15.81	16.05	15.94	16.05	16.37	13.30	12.88
cfs	26.0	31.4	30.2	12.9	13.2	13.6	14.7	14.2	14.7	16.2	1.6	0.0
days	31	28	31	30	31	30	31	31	30	31	30	31
cfs avg	29.1			13.2			14.5			6.0		15.7
1998		1Q	2Q	3Q	4Q							
cfs				16.6	18.5							
1999		1Q	2Q	3Q	4Q							
cfs												
lag cfs		29.1	13.2	14.5	6.0							
		23.5	19.4	16.5	10.0	Avg =	17.3 cfs					

Table 10. Evaporation Loss at Lake Avalon - WY 1999													
4/29/00													
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOT
Avalon ga ht, avg, ft	18.41	19.55	19.29	15.67	15.73	15.81	16.05	15.94	16.05	16.37	13.30	12.88	
Avg area Avalon, ac.	766	847	828	594	597	601	615	609	615	634	99	33	
Panevap Brantley, in.	5.05	5.60	8.42	14.95	18.67	14.21	15.94	14.75	9.49	8.65	4.80	4.34	124.87
Lakeevap Brantley, in.	3.89	4.31	6.48	11.51	14.38	10.94	12.27	11.36	7.31	6.66	3.70	3.34	96.15
Precip Brantley, in.	0.40	0.00	0.44	1.28	3.35	0.86	1.76	1.97	0.86	0.54	0.00	0.00	11.46
Netevap, inches	3.49	4.31	6.04	10.23	11.03	10.08	10.51	9.39	6.45	6.12	3.70	3.34	84.69
Evaploss Av, TAF	0.2	0.3	0.4	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.0	0.0	4.2

1. The first part of the paper is a review of the literature on the topic of the paper.

2. The second part of the paper is a description of the methodology used in the study.

3. The third part of the paper is a presentation of the results of the study.

4. The fourth part of the paper is a discussion of the results of the study.

5. The fifth part of the paper is a conclusion of the study.

6. The sixth part of the paper is a list of references.

7. The seventh part of the paper is a list of appendices.

8. The eighth part of the paper is a list of figures.

9. The ninth part of the paper is a list of tables.

10. The tenth part of the paper is a list of footnotes.

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6/24/00													
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	TOTAL
STREAMFLOW GAGING RECORDS, TAF													
Pecos R b Sumner Dam	1.3	1.2	5.2	5.6	5.6	6.6	10.7	29.4	6.2	23.0	0.7	1.3	96.8
Fort Sumner Main C	0.0	0.0	4.3	5.1	3.6	5.5	5.7	4.9	5.4	5.3	0.0	0.0	39.7
Pecos R nr Artesia	5.8	5.9	5.8	4.4	26.5	14.6	10.3	25.4	4.5	18.9	5.5	5.0	132.5
Rio Penasco at Dayton*	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0				0.2
Fourmile Draw nr Lakewood	0.0	0.0	0.0	0.0	0.7	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.9
South Seven Rivers nr Lkwd*						0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Rocky Arroyo at Hwy Br nr	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pecos R at Dam Site 3	1.8	1.8	2.8	15.2	12.1	10.4	24.1	15.9	13.8	18.0	0.7	0.3	116.6
Pecos bel Avalon Dam	0.0	0.0	0.0	0.0	0.1	0.0	7.9	0.0	0.0	8.0	1.2	0.0	17.1
Carlsbad Main Canal	0.0	0.0	3.7	15.0	12.2	10.4	14.0	16.7	12.4	13.4	0.0	0.0	97.8
Dark Canyon at Carlsbad	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pecos below Dark Canyon	1.1	0.9	1.0	1.3	1.3	1.1	9.3	0.9	0.9	8.3	1.8	1.1	29.0
Pecos R at Red Bluff	3.4	3.1	3.3	3.3	3.3	16.6	13.7	3.7	3.6	12.6	4.9	3.7	75.2
Delaware R nr Red Bluff	0.1	0.1	0.1	0.0	0.0	5.6	0.1	0.0	0.3	0.0	0.1	0.1	6.6
*out of service for part of year - assumed zero where no data is shown													
GAGE HEIGHTS													
Avalon gage ht, end mo	18.90	20.00	15.45	16.00	16.60	15.80	15.80	15.90	16.00	15.25	12.85	12.90	
Avalon gage ht, avg	18.41	19.55	19.29	15.67	15.73	15.81	16.05	15.94	16.05	16.37	13.30	12.88	
Alamogordo ga ht, end mo	52.24	53.77	53.68	53.25	60.60	58.21	60.68	60.91	60.49	51.89	53.74	56.53	
Alamogordo gage ht, avg	51.12	53.10	53.65	53.19	60.38	60.12	60.65	60.83	60.50	55.63	52.95	55.65	
Lake S Rosa ga ht, end mo	29.58	29.96	30.43	32.59	41.96	45.56	45.05	45.05	45.08	45.14	45.26	44.95	
Lake S Rosa ga ht, avg	29.25	29.79	30.20	30.57	37.78	44.19	45.21	45.41	45.15	45.07	45.20	44.83	
PRECIPITATION, INCHES													
Brantley Lake	0.40	0.00	0.44	1.28	3.35	0.86	1.76	1.97	0.86	0.54	0.00	0.00	11.46
Las Vegas FAA AP	0.13	0.00	0.77	1.66	2.87	2.53	1.54	6.97	3.22	0.02	0.02	0.11	19.84
Pecos National Monument	0.51	0.01	0.92	1.69	1.25	1.93	3.03	5.28	2.14	0.44	0.02	0.25	17.47
Santa Rosa	1.15	0.00	1.19	3.96	2.44	0.91	2.79	2.89	1.64	0.55	0.00	1.25	18.77
Lake Santa Rosa	0.63	0.00	1.25	2.18	4.76	1.37	4.83	4.48	0.84	0.42	0.00	0.62	21.38
Sumner Lake	0.69	0.00	2.05	3.30	4.94	1.08	4.74	2.91	1.76	0.34	0.00	0.55	22.36
PAN EVAPORATION, INCHES													
Lake Santa Rosa	3.72	4.98	7.88	7.87	9.43	11.24	11.3	9.63	7.37	6.52	5.3	3.76	89.00
Lake Sumner	3.04	4.75	7.24	12.58	15.71	13.16	17.14	14.57	8.65	7.72	4.16	2.65	111.37

6/24/00														
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	TOTAL	
STREAMFLOW GAGING RECORDS, TAF														
Pecos R b Sumner Dam	1.3	1.2	5.2	5.6	5.6	6.6	10.7	29.4	6.2	23.0	0.7	1.3	96.8	
Fort Sumner Main C	0.0	0.0	4.3	5.1	3.6	5.5	5.7	4.9	5.4	5.3	0.0	0.0	39.7	
Pecos R nr Artesia	5.8	5.9	5.8	4.4	26.5	14.6	10.3	25.4	4.5	18.9	5.5	5.0	132.5	
Rio Penasco at Dayton*	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0				0.2	
Fourmile Draw nr Lakewood	0.0	0.0	0.0	0.0	0.7	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.9	
South Seven Rivers nr Lkwd*						0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Rocky Arroyo at Hwy Br nr	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Pecos R at Dam Site 3	1.8	1.8	2.8	15.2	12.1	10.4	24.1	15.9	13.8	18.0	0.7	0.3	116.6	
Pecos bel Avalon Dam	0.0	0.0	0.0	0.0	0.1	0.0	7.9	0.0	0.0	8.0	1.2	0.0	17.1	
Carlsbad Main Canal	0.0	0.0	3.7	15.0	12.2	10.4	14.0	16.7	12.4	13.4	0.0	0.0	97.8	
Dark Canyon at Carlsbad	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Pecos below Dark Canyon	1.1	0.9	1.0	1.3	1.3	1.1	9.3	0.9	0.9	8.3	1.8	1.1	29.0	
Pecos R at Red Bluff	3.4	3.1	3.3	3.3	3.3	16.6	13.7	3.7	3.6	12.6	4.9	3.7	75.2	
Delaware R nr Red Bluff	0.1	0.1	0.1	0.0	0.0	5.6	0.1	0.0	0.3	0.0	0.1	0.1	6.6	
*out of service for part of year - assumed zero where no data is shown														
GAGE HEIGHTS														
Avalon gage ht, end mo	18.90	20.00	15.45	16.00	16.60	15.80	15.80	15.90	16.00	15.25	12.85	12.90		
Avalon gage ht, avg	18.41	19.55	19.29	15.67	15.73	15.81	16.05	15.94	16.05	16.37	13.30	12.88		
Alamogordo ga ht, end mo	52.24	53.77	53.68	53.25	60.60	58.21	60.68	60.91	60.49	51.89	53.74	56.53		
Alamogordo gage ht, avg	51.12	53.10	53.65	53.19	60.38	60.12	60.65	60.83	60.50	55.63	52.95	55.65		
Lake S Rosa ga ht, end mo	29.58	29.96	30.43	32.59	41.96	45.56	45.05	45.05	45.08	45.14	45.26	44.95		
Lake S Rosa ga ht, avg	29.25	29.79	30.20	30.57	37.78	44.19	45.21	45.41	45.15	45.07	45.20	44.83		
PRECIPITATION, INCHES														
Brantley Lake	0.40	0.00	0.44	1.28	3.35	0.86	1.76	1.97	0.86	0.54	0.00	0.00	11.46	
Las Vegas FAA AP	0.13	0.00	0.77	1.66	2.87	2.53	1.54	6.97	3.22	0.02	0.02	0.11	19.84	
Pecos National Monument	0.51	0.01	0.92	1.69	1.25	1.93	3.03	5.28	2.14	0.44	0.02	0.25	17.47	
Santa Rosa	1.15	0.00	1.19	3.96	2.44	0.91	2.79	2.89	1.64	0.55	0.00	1.25	18.77	
Lake Santa Rosa	0.63	0.00	1.25	2.18	4.76	1.37	4.83	4.48	0.84	0.42	0.00	0.62	21.38	
Sumner Lake	0.69	0.00	2.05	3.30	4.94	1.08	4.74	2.91	1.76	0.34	0.00	0.55	22.36	
PAN EVAPORATION, INCHES														
Lake Santa Rosa	3.72	4.98	7.88	7.87	9.43	11.24	11.3	9.63	7.37	6.52	5.3	3.76	89.00	
Lake Sumner	3.04	4.75	7.24	12.58	15.71	13.16	17.14	14.57	8.65	7.72	4.16	2.65	111.37	
Brantley Lake	5.05	5.60	8.42	14.95	18.67	14.21	15.94	14.75	9.49	8.65	4.80	4.34	124.87	
OTHER REPORTS														
Base Acme-Art, TAF (USGS)	3.4	3.5	2.9	2.4	4.0	2.9	3.5	3.4	2.2	1.9	2.9	2.9	36.0	
Pump depl Ac-Artesia, TAF	0.0	0.0	0.3	0.7	0.3	0.3	0.5	0.6	0.5	0.1	0.0	0.0	3.4	
NM irrig inv, acres (3/9/2000)													11529	
NM transfer water use, TAF													0	
NM salvaged water, TAF													0	
Texas, water stored NM, TAF	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Texas, use Del water, TAF														

APPENDIX

RIVER MASTER'S RESPONSE TO STATES' OBJECTIONS

3. 2000年12月1日，甲企业向乙企业销售一批商品，售价为10000元，增值税为1700元，款项尚未收到。甲企业应编制如下会计分录：

RESPONSE TO STATES' OBJECTIONS

Final Report, Accounting Year 2000

NEW MEXICO'S AND TEXAS'S OBJECTIONS

Both states objected to the USGS estimate of Base Inflow, Acme to Artesia, which was used by the River Master in the Preliminary Report. These were the only objections filed by the states.

New Mexico objected to the estimate of Base Inflow for the month of May, 1999. New Mexico's estimate is 4,950 acre-feet, instead of USGS's estimate of 3,140 acre-feet. This difference of 1,810 acre-feet translates to a New Mexico estimate of 37,430 acre-feet for the year and to a Final Calculated Departure of 1.7 TAF. New Mexico furnished an analysis that included a graphical display.

Texas also objected to estimates of Base Inflow, but for the months of February, March, August, and September. Texas reported that they had done a spreadsheet analysis, based on linear interpolation, but did not furnish the spreadsheet or a graphical display of their estimates. Instead, Texas requested the River Master to reevaluate the base flow calculations.

The Table below shows the estimates of USGS, New Mexico, Texas, the River Master. Texas's base flow estimates total 34,561 acre-feet, or 1,059 acre-feet less than those of USGS. Texas also computed that the Flood Inflow, Alamogordo to Artesia, should be 41.3 TAF, or 3.5 TAF more than the value in the Preliminary Report. The River Master could not determine how Texas concluded that the flood inflow for the Alamogordo to Artesia Reach was 41.3 TAF, rather than the 37.8 TAF in the Preliminary Report, and concluded that there was an error somewhere in Texas's figures. In any event, the River Master was able to reevaluate the base flows for the months where Texas expressed concern, February, March, August, and September.

RIVER MASTER'S ANALYSIS AND CONCLUSIONS

New Mexico's objections are based on the rainfall that occurred during the Month of May. New Mexico furnished a graph for May that displays their judgment about the base flow at the Acme and Artesia gages (see graph that follows). I concur with New Mexico that the rainfall, which clearly increases total flow at both gages, would raise base flow some. However, in my opinion, New Mexico's estimate for base flow at Artesia rises too sharply, and I conclude that the base flow increase for the month of May is about half of New Mexico's estimate. Thus, for the month of May, I find that the base inflow, Acme to Artesia, is 4,045 acre-feet. This finding is based conceptually on a graphical interpolation, where the final line is as shown on the attached graph (see "RM estimate" on the graph for the month of May). The numerical value is set by accepting 50% of New Mexico's estimated increase ($3,140 + 1,810/2 = 4,045$).

1. The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that proper record-keeping is essential for the transparency and accountability of the organization. The text also mentions the need for regular audits to ensure that the records are up-to-date and correct.

2. The second part of the document outlines the procedures for handling financial matters. It details the steps for budgeting, forecasting, and reporting. The text also discusses the importance of maintaining a clear and concise financial statement that provides a comprehensive overview of the organization's financial health.

3. The third part of the document focuses on the management of human resources. It discusses the importance of recruiting and retaining qualified staff, as well as the need for ongoing training and development. The text also mentions the importance of maintaining a positive work environment and fostering a sense of team spirit among the employees.

4. The fourth part of the document discusses the importance of maintaining a strong relationship with the community. It emphasizes the need for the organization to be transparent and accountable to the public, and to engage in activities that benefit the community.

5. The fifth part of the document discusses the importance of maintaining a strong relationship with the media. It emphasizes the need for the organization to be transparent and accountable to the public, and to engage in activities that benefit the community.

6. The sixth part of the document discusses the importance of maintaining a strong relationship with the government. It emphasizes the need for the organization to be transparent and accountable to the public, and to engage in activities that benefit the community.

I was unable to evaluate Texas' estimates for February and March due to the absence of a graphical display or the spreadsheet analysis. Based on previous years' experiences in hydrograph scalping, it appears that the differences between Texas and USGS estimates is probably due to curvature of base flow lines. While there may be merit in Texas's estimates, all of the estimates involve judgment and engineering methods are limited. I believe that the estimates of USGS for the months of February and March are reasonable and defensible and have retained them.

On the other hand, for the months of August and September, I could not understand why the USGS estimates of base flow at Acme were not tangent to the lower points of the hydrograph, and I re-evaluated the base flows in those months (see graph at "TX Assumed"). My re-evaluation indicated that base inflow was about as computed by Texas for that period, so I accept Texas' estimates for August and September.

	USGS	NM	TX	RM
Jan	3,440	3,440	3,440	3,440
Feb	3,500	3,500	3,052	3,500
Mar	2,890	2,890	2,768	2,890
Apr	2,440	2,440	2,440	2,440
May	3,140	4,950	3,140	4,045
Jun	2,920	2,920	2,920	2,920
Jul	3,500	3,500	3,500	3,500
Aug	3,630	3,630	3,441	3,441
Sep	2,500	2,500	2,200	2,200
Oct	1,910	1,910	1,910	1,910
Nov	2,860	2,860	2,860	2,860
Dec	2,890	2,890	2,890	2,890
Total	35,620	37,430	34,561	36,036

As shown in the table, the River Master's value for base inflow is 36.0 TAF.

4. Final Calculated Departure.

The Preliminary Report's Final Calculated Departure was 1.3 TAF. New Mexico arrived at 1.7 TAF and Texas at 0.6 TAF. After considering the states' objections, the Final Determination is 1.4 TAF.

59
 -18
 41
 x30
 1230
 x1.9835
 2440

NM 2440
 TX 2440
 GS 2440

74
 -29
 47
 x31
 1137
 x1.9835
 2890

NM 2890
 TX 2678
 GS 2890

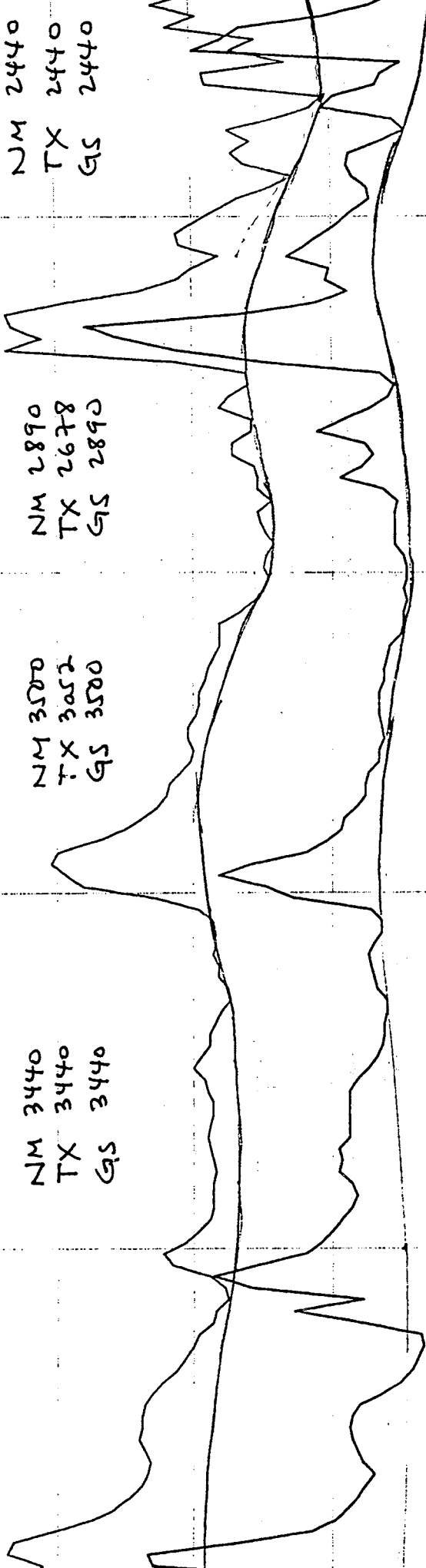
92
 -28
 64
 x31
 1964
 x1.9835
 3500

NM 3500
 TX 3052
 GS 3500

84
 -28
 56
 x31
 1736
 x1.9835
 3440

NM 3440
 TX 3440
 GS 3440

92
 -28
 64
 x31
 2077
 x1.9835
 4100



April

March

February

January

er

9
 0
 9
 31
 329
 4835
 30

70
 28
 42
 + 30
 1260
 x 1.9835
 2500

NM 2500
 TX 2200
 GS 2500

68
 -37
 31
 +31
 941
 x 1.9835
 1910

NM 1910
 TX 1910
 GS 1910

75
 -27
 48
 x30
 1440
 x 1.9835
 2860

NM 2860
 TX 2860
 GS 2860

73
 -26
 47
 x31
 1457
 x 1.9835
 2890

NM 2890
 TX 2890
 GS 2890

TX (Assumed)

September

October

November

December

292

357

79
 - 20 -
 59
 x 31

 1829
 x 1,9835

 3630

78
 - 21 -
 57
 x 31

 1767
 x 1,9835

 3500

83
 - 34 -
 49
 x 30

 1470
 x 1,9835

 2920

78
 - 27 -
 51
 x 31

 1581
 x 1,9835

 3140

NM 3630
 TX 3441
 GS 3630

NM 3500
 TX 3500
 GS 3500

NM 2920
 TX 2920
 GS 2920

NM 4950
 TX 3140
 GS 3140

TX (ASSUME)

NM (APPROX)

RM Estimate

USGS

NM APPROX

USGS

May

June

July

Month

8-18

August

September

