

PECOS RIVER COMPACT

Report of the River Master

Water Year 2008

Accounting Year 2009

Final Report

June 26, 2009

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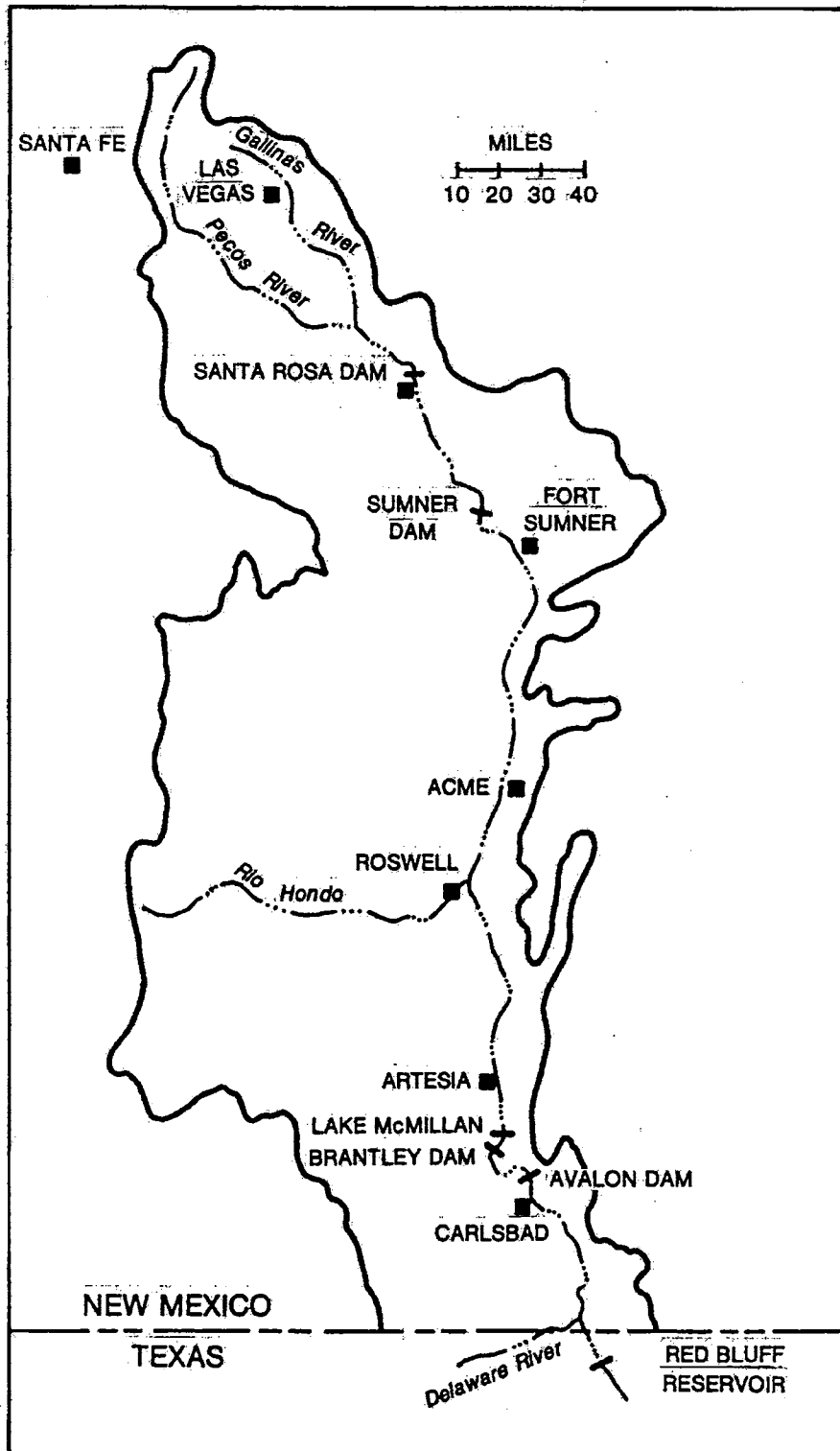
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Map of Pecos River Basin Showing Accounting Reaches

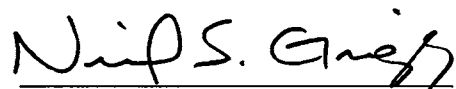
PECOS RIVER COMPACT
Supreme Court of the United States
No. 65, Original
Amended Decree

Final Report of the River Master
Water Year 2008 - Accounting Year 2009
June 26, 2009

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 2008 was an overage of 6,000 acre-feet. The accumulated overage since the beginning of Water Year 1987 is 98,500 acre-feet.



Neil S. Grigg
River Master of the Pecos River

Pecos River Compact		
Accumulated Shortfall or Overage		
June 26, 2009		
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
2000	-12,300	10,600
2001	-700	9,900
2002	-3,000	6,900
2003	2,000	8,900
2004	8,300	17,200
2005	24,000	41,200
2006	26,100	67,300
2007	25,200	92,500
2008	6,000	98,500

Table 1. General Calculation of Annual Departures, TAF, WY 2008			
6/25/2009			
	WY 2006	WY 2007	WY 2008
B.1.a. Index Inflows			
(1) Annual flood inflow			
(a) Gaged flow Pecos R bel Alamogordo Dam	104.2	115.7	128.4
(b) Flood Inflow Alamogordo - Artesia (Table 2)	19.5	6.7	16
(c) Flood Inflow Artesia - Carlsbad (Table 3)	12.0	11.6	11.7
(d) Flood Inflow Carlsbad - State Line (Table 4)	6.0	9.5	3.4
Total (annual flood inflow)	141.7	143.5	159.5
(2) Index Inflow (3-year avg)			148.2
B.1.b. 1947 Condition Delivery Obligation			60.2
(Index Outflow)			
B.1.c. Average Historical (Gaged) Outflow			
(1) Annual historical outflow			
(a) Gaged Flow Pecos River at Red Bluff NM	66.9	67.5	58.0
(b) Gaged Flow Delaware River nr Red Bluff NM	2.1	4.0	1.6
(c) Metered diversions Permit 3254 into C-2713	0.0	0.0	0.0
Total Annual Historical Outflow	69.0	71.5	59.6
(2) Average Historical Outflow (3-yr average)			66.7
B.1.d. Annual Departure			6.5
C. Adjustments to Computed Departure			
1. Adjustments for Depletions above Alam Dam			
a. Depletions Due to Irrigation (Table 5)	-0.4	-0.5	-0.4
b. Depl fr Operation of Santa Rosa Reservoir (Table 6)	2.4	3.6	3.0
c. Transfer of Water Use to Upstream of AD		0	0
Recomputed Index Inflows			
(1) Annual flood inflow			
(a) Gaged flow Pecos R bel Alamogordo Dam	106.2	118.8	131.0
(b) Flood Inflow Alamogordo - Artesia	19.5	6.7	16.0
(c) Flood Inflow Artesia - Carlsbad	12.0	11.6	11.7
(d) Flood Inflow Carlsbad - State Line	6.0	9.5	3.4
Total (annual flood inflow)	143.7	146.6	162.1
Recomputed Index Inflow (3-year avg)			150.8
Recomputed 1947 Condition Del Outflow			61.7
(Index Outflow)			
Recomputed Annual Departures			5.0
Credits to New Mexico			
C.2 Depletions Due to McMillan Dike			1.0
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			6.0

Table 3. Determination of Flood Inflows, Artesia to Carsbad, WY 2008 (B.4)													
4/28/2009													
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	TOT
Rio Penasco at Dayton	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.3	0.0	0.0	0.0	1.0
Fourmile Draw nr Lakew	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
South Seven Rivers	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
Rocky Arroyo at Hwy Br	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.3
Flood Inflow, Art-DS3	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.3	0.0	0.0	0.0	1.3
Pecos R at Dam Site 3	1.3	1.4	4.4	12.8	11.2	9.4	9.6	8.7	8.0	10.6	18.0	1.6	96.8
CB Sprgs New Water (from Table 7)	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-0.3	-3.7
Total Inflow, DS3 - CB	1.0	1.0	4.1	12.5	10.8	9.1	9.2	8.4	7.6	10.2	17.6	1.3	93.0
Evap Loss, Lake Avalon (from Table 10)	0.2	0.3	0.5	0.5	0.6	0.7	0.3	0.4	0.3	0.2	0.2	0.2	4.3
Storage Chg, Lake Avalon (from Table 11)	0.5	0.4	-1.6	-0.1	0.1	0.4	-0.1	-0.1	-0.3	0.4	-0.1	0.7	0.3
Carls ID diversions	0.0	0.0	5.2	13.2	9.9	7.8	8.8	8.2	7.4	9.1	0.0	0.0	69.5
93% CID diver	0.0	0.0	4.8	12.3	9.2	7.2	8.1	7.6	6.8	8.5	0.0	0.0	64.6
Other depletions	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	1.4
Dark Canyon at Csbad	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 b Dark Canyon	3.1	2.1	1.0	0.8	0.9	0.6	1.1	1.1	0.9	1.1	19.1	1.0	32.8
Pecos R at Carlsbad	3.1	2.1	1.0	0.8	0.9	0.6	1.1	1.1	0.9	1.1	19.1	1.0	32.8
Total Outflow	3.9	2.8	4.8	13.6	10.9	9.0	9.7	9.1	7.9	10.4	19.3	2.0	103.4
Flood Inflow, DS3-CB	2.9	1.8	0.7	1.1	0.0	-0.1	0.4	0.7	0.2	0.1	1.7	0.7	10.4
Flood Inflow, Art-CB	2.9	1.8	0.7	1.1	0.0	-0.1	1.4	0.7	0.6	0.1	1.7	0.7	11.7

Table 4. Summary Table for Computations, Carlsbad to State Line - WY 2008 (B.5)

6/23/2009							
	BCB - RB	BCB - RB*	Del R	DC			
	RM	USGS	USGS				
Jan	0.0	0.0	0.0	0.0			
Feb	0.0	0.0	0.0	0.0			
Mar	0.0	0.2	0.0	0.0			
Apr	0.0	0.2	0.0	0.0			
May	0.2	0.3	0.0	0.0			
Jun	0.2	0.3	0.0	0.0			
Jul	1.3	0.8	0.1	0.0			
Aug	0.4	0.2	0.0	0.0			
Sep	0.6	0.4	0.4	0.0			
Oct	0.1	0.4	0.0	0.0			
Nov	0.0	0.0	0.0	0.0			
Dec	0.0	0.0	0.0	0.0			
Total	2.9	2.9	0.5	0.0			
Summary of flood inflows, Carlsbad to State Line, TAF							
Red Bluff - Carlsbad + Dark C RM calcs)					2.9		
* USGS calculations BCB-RB for comparison only							
Delaware River (USGS Computation					0.5		
Total Flood Inflow, Carlsbad to State Line					3.4		

Table 5. Depletions Due to Irrigation Above Summer Dam - WY 2008 (C.1.a)

Table 6. Depletions Due to Santa Rosa Reservoir Operations - WY 2008 - (C.1.b)													
6/23/2009	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	TOTAL
LS 2001 table (USBR); SRL 1997 tables used (COE)													
Lk Sumner ga ht, avg	55.70	56.77	55.29	53.35	51.75	50.35	50.76	51.06	48.89	46.91	47.94	50.79	
LS content, AF, avg	25935	28108	25133	21566	18909	16773	17382	17836	14723	12243	13486	17427	
LS area, acres, avg	1977	2087	1936	1741	1584	1466	1501	1526	1343	1153	1261	1503	
LS evap, inches	4.43	6.41	9.12	13.31	15.18	18.14	10.77	11.84	9.09	7.61	6.29	4.44	116.63
.77 LS Evap	3.41	4.94	7.02	10.25	11.69	13.97	8.29	9.12	7.00	5.86	4.84	3.42	89.81
LS Precip, inches	0.00	0.55	0.20	0.10	1.67	0.44	3.56	3.00	0.97	1.43	0.05	0.05	12.02
Net LS Evap, inches	3.41	4.39	6.82	10.15	10.02	13.53	4.73	6.12	6.03	4.43	4.79	3.37	77.79
LSum Evaploss, TAF	0.56	0.76	1.10	1.47	1.32	1.65	0.59	0.78	0.67	0.43	0.50	0.42	10.27
L S Rosa ga ht, avg	29.44	29.49	19.99	20.12	25.96	27.65	16.30	18.44	17.94	18.86	19.32	19.53	
LSR content, AF, avg	50589	50708	31617	31838	42888	46520	25860	29074	28294	29744	30494	30842	
LSR area, acres, avg	2357	2362	1698	1708	2089	2200	1437	1580	1538	1615	1650	1665	
LSR evap, inches	3.72	5.16	8.58	9.3	11.12	14.09	9.8	9.52	7.37	5.63	4.88	3.76	92.93
.77 LSR Evap	2.86	3.97	6.61	7.16	8.56	10.85	7.55	7.33	5.67	4.34	3.76	2.90	71.56
LSR precip, inches	0.13	0.71	0.69	0.37	2.11	1.29	2.12	3.15	1.22	0.78	0.25	0.37	13.19
Net LSR Evap, inches	2.73	3.26	5.92	6.79	6.45	9.56	5.43	4.18	4.45	3.56	3.51	2.53	58.37
LSR Evaploss, TAF	0.54	0.64	0.84	0.97	1.12	1.75	0.65	0.55	0.57	0.48	0.48	0.35	8.94
Total evaploss, TAF	1.10	1.41	1.94	2.44	2.45	3.41	1.24	1.33	1.25	0.90	0.99	0.77	19.21
Sum contents, AF	76524	78816	56750	53404	61797	63293	43242	46910	43017	41987	43980	48269	
1947 area, acres	3159	3197	2621	2429	2807	2834	2014	2113	2008	1982	2033	2171	
1947 evaploss, TAF	0.90	1.17	1.49	2.05	2.34	3.19	0.79	1.08	1.01	0.73	0.81	0.61	16.18
current-1947evaploss	0.20	0.24	0.45	0.38	0.10	0.21	0.45	0.25	0.24	0.17	0.17	0.16	3.03
						Annual adjustment for excess evaporation =							3.0
ADJUSTMENT FOR EXCESSIVE STORAGE IN SANTA ROSA RESERVOIR													
			2007	2007	2008	2008							
			Gage	Storage	Gage	Storage							
EndYear Summer Sto			4254.90	24385	4251.85	19068							
EndYear S R Sto			4729.40	50495	4719.65	31043							
Sum				74880		50111							
Sto Adjustment, AF						0							
Adjustm Ex Evap, TAF						3.0							
Total Adjustment, TAF						3.0							

Table 7. Carlsbad Springs New Water WY 2008 - (B.4.c)					
6/23/2009					
		TAF	AF/day	cfs	Totals
Pecos R bel DC		32.8	89.6	45.2	45.2
Dark Canyon		0.0	0.0	0.0	0.0
Pecos R bel Lake Av, cfs		17.0	46.4	23.4	23.4
Depletion, cfs					2.0
CID lag seep, cfs (from Table 8)					6.9
Return flow, cfs					1.0
Lake Av lagged seep, cfs (from Table 9)					18.0
PR seepage, cfs					3.0
Carls new water, cfs					-5.1
Carls new wat, TAF					-3.7
Carls new wat monthly, TAF					-0.3

Table 8. Carlsbad Main Canal Seepage Lagged - WY 2008 - [B.4.c.(1)(e)]													
4/28/2009	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	TOTAL
WY 2008													
CID, TAF	0.0	0.0	5.2	13.2	9.9	7.8	8.8	8.2	7.4	9.1	0.0	0.0	69.5
days/mo	31	29	31	30	31	30	31	31	30	31	30	31	366
cfs	0.0	0.0	84.1	221.7	160.8	130.7	142.3	133.5	123.5	148.6	0.0	0.0	95.4
cfs, qtr avg			28.6			171.0			133.2			50.1	
WY 2007		1Q	2Q	3Q	4Q								
FLows, cfs				152.7	62.9								
SEVEN %				10.7	4.4								
WY 2008 lagged		1Q	2Q	3Q	4Q								
FLows, cfs		28.6	171.0	133.2	50.1								
SEVEN %		2.0	12.0	9.3	3.5								
LAG		4.3	7.4	9.0	6.9	Avg =	6.9	cfs					

Table 9. Lake Avalon Leakage Lagged - WY 2008 - B.4.c.(1)(g)

Table 10. Evaporation Loss at Lake Avalon - WY 2008 - (B.4.f)

Table 12. Data Required for River Master Manual Calculations, Water Year 2008				
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6/25/2009													
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	TOTAL
STREAMFLOW GAGING RECORDS, TAF													
Pecos R b Sumner Dam	1.5	3.5	35.4	6.3	5.3	40.3	4.3	17.6	6.7	6.0	0.3	1.2	128.4
Fort Sumner Main C	0.0	2.6	5.9	5.8	4.8	5.9	3.0	6.1	5.7	5.7	0.0	0.0	45.4
Pecos R nr Artesia	5.2	4.7	27.5	4.5	3.7	17.1	21.4	21.0	7.4	6.4	5.1	4.9	128.9
Rio Penasco at Dayton	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.3	0.0	0.0	0.0	1.0
Fourmile Draw nr Lakewood	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
South Seven Rivers nr Lkwd	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
Rocky Arroyo at Hwy Br nr	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.3
Pecos R at Dam Site 3	1.3	1.4	4.4	12.8	11.2	9.4	9.6	8.7	8.0	10.6	18.0	1.6	96.8
Pecos bel Avalon Dam	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.0	0.0	17.0
Carlsbad Main Canal	0.0	0.0	5.2	13.2	9.9	7.8	8.8	8.2	7.4	9.1	0.0	0.0	69.5
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	3.1	2.1	1.0	0.8	0.9	0.6	1.1	1.1	0.9	1.1	19.1	1.0	32.8
Pecos R at Red Bluff	5.6	4.3	3.0	2.4	2.6	2.5	4.4	1.8	2.1	3.8	22.0	3.5	58.0
Delaware R nr Red Bluff	0.1	0.1	0.1	0.1	0.1	0.0	0.2	0.1	0.5	0.1	0.1	0.1	1.6
GAGE HEIGHTS													
Avalon gage ht, end mo	74.90	75.40	73.10	72.90	73.10	73.70	73.60	73.40	73.00	73.70	73.60	74.60	
Avalon gage ht, avg	74.63	75.18	75.38	73.01	73.06	73.21	73.39	73.22	73.36	73.36	73.51	74.15	
Sumner Lake ga ht, end mo	56.39	56.60	54.11	52.53	51.16	49.83	51.70	49.87	47.79	46.19	49.54	51.85	
Sumner Lake gage ht, avg	55.70	56.77	55.29	53.35	51.75	50.35	50.76	51.06	48.89	46.91	47.94	50.79	
Lake S Rosa ga ht, end mo	29.46	29.53	17.26	22.46	30.21	14.70	17.98	15.87	18.61	19.27	19.43	19.65	
Lake S Rosa ga ht, avg	29.44	29.49	19.99	20.12	25.96	27.65	16.30	18.44	17.94	18.86	19.32	19.53	
PRECIPITATION, INCHES													
Brantley Lake	0.00	0.00	0.16	0.00	0.97	0.85	3.15	1.95	1.33	1.20	0.02	0.09	9.72
Las Vegas FAA AP	0.12	0.55	0.23	0.36	1.57	1.00	4.15	5.15	0.56	1.03	0.55	0.34	15.61
Pecos National Monument	1.69	0.85	0.46	0.66	1.42	0.19	3.03	4.96	0.17	2.44	0.62	1.99	18.48
Santa Rosa	0.06	0.65	0.79	0.48	1.85	0.70	2.00	3.11	1.41	1.02	0.22	0.33	12.62
Lake Santa Rosa	0.13	0.71	0.69	0.37	2.11	1.29	2.12	3.15	1.22	0.78	0.25	0.37	13.19
Sumner Lake	0.00	0.55	0.20	0.10	1.67	0.44	3.56	3.00	0.97	1.43	0.05	0.05	12.02
PAN EVAPORATION, INCHES													
Lake Santa Rosa	3.72	5.16	8.58	9.3	11.12	14.09	9.8	9.52	7.37	5.63	4.88	3.76	92.93
Lake Sumner	4.43	6.41	9.12	13.31	15.18	18.14	10.77	11.84	9.09	7.61	6.29	4.44	116.63
Brantley Lake	4.65	5.80	9.71	13.47	15.45	17.74	12.20	11.52	8.03	7.20	4.80	4.34	114.91
OTHER REPORTS													
Base Acme-Art, TAF (USGS)	3.5	2.9	3.3	2.7	2.0	1.1	2.2	3.4	1.9	0.7	2.0	3.0	28.6
Pump depl Ac-Artesia, TAF	0.0	0.1	0.1	0.1	0.0	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.5
Pumping, C-2713, Brine Part.	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
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

RESPONSE TO STATES' OBJECTIONS

Final Report, Accounting Year 2009

NEW MEXICO'S OBJECTIONS

1. Table 2. Determination of Flood Inflows, Alamogordo Dam to Artesia WY 2008 [B.3.]:

New Mexico (NM) objected to the USGS base inflow calculation. The table below compares the estimates of NM and the USGS. The NM total is shown as 30.0 TAF, as opposed to 30.1 TAF, which is indicated in their objections. The difference occurs due to rounding. NM's objection is to March, July, and August, but it is apparent from the numbers that August and September are meant instead of July and August.

The differences between the NM and USGS calculations are similar to last year and caused by the different results from the flat lines of USGS compared to NM's upward-curving base flow lines. NM explains her reasons again as to better match the lowest points on the hydrographs.

The historical procedures for hydrograph scalping were reviewed during the process of New Mexico's Amended First Motion to Modify the River Master's Manual. The current language in the Manual results from the River Master's decision, dated December 26, 1990. The states have met to attempt to develop uniform procedures, but none have been developed.

The differences between NM's and USGS's estimates are not large and reflect different judgments about base flows. In March and in August-September, the Acme hydrographs spiked well above the Artesia plus pumping hydrographs, and the influence of any rainfall seems to be obscured by operational rises. The rises for March occurred during a period of little rain, but the rises of August-September occurred during a period of heavier rain.

The River Master finds merit in NM's attempts to consider hydrograph behavior in making base flow estimates, as compared to USGS's flatter and more linear estimates. He also finds validity in the USGS procedures in that they tried to draw stable lines and not allow base flow to fluctuate too rapidly. Without a better basis to make trade-offs between the estimates, the River Master's decision for this particular set of runoff events is to average the NM and USGS estimates for the monthly periods of March, August, and September. These values are shown in the table below. The graphs comparing the USGS and NM estimates are attached.

	NM	USGS	Diff	Adjusted values
Jan	3.5	3.5		3.50
Feb	2.9	2.9		2.90
Mar	3.6	3.0	0.6	3.30
Apr	2.7	2.7		2.70
May	2.0	2.0		2.00
Jun	1.1	1.1		1.10
Jul	2.2	2.2		2.20
Aug	4.0	2.7	1.3	3.35
Sep	2.3	1.4	0.9	1.85
Oct	0.7	0.7		0.70
Nov	2.0	2.0		2.00
Dec	3.0	3.0		3.00
	30.0	27.2	2.8	28.6

2. Table 4. Determination of flood inflows, Carlsbad - State Line WY 2008 [B.5.]:

NM identified an error in transposing data from the calculation sheets to the summary on Table 4. NM's objection is accepted, and Table 4 has been corrected.

3. Table 6. Depletions Due to Santa Rosa Reservoir Operations WY 2008 [C.1.b.]:

New Mexico found an error in the Santa Rosa Reservoir contents for June, and the objection is accepted. New Mexico also found that the line of data for 1947 area that corresponds to the sum of contents was in error, and this objection is accepted. New Mexico's tabular values are shown on the revised Table 6.

4. Table 7. Carlsbad Springs New Water WY 2008 [B.4.c.]:

New Mexico found a calculation error where 366 days were not used for the leap year. The objection is accepted, and a revised Table 7 is included.

5. Table 9. Lake Avalon Leakage Lagged WY 2008 [B.4.c.(1)(g)]:

NM reported an averaging error which resulted from not using 366 days in the calculation for the leap year. This objection is accepted, and Tables 3 and 7 have also been corrected.

6. Table 1. General Calculation of Annual Departures WY 2008.

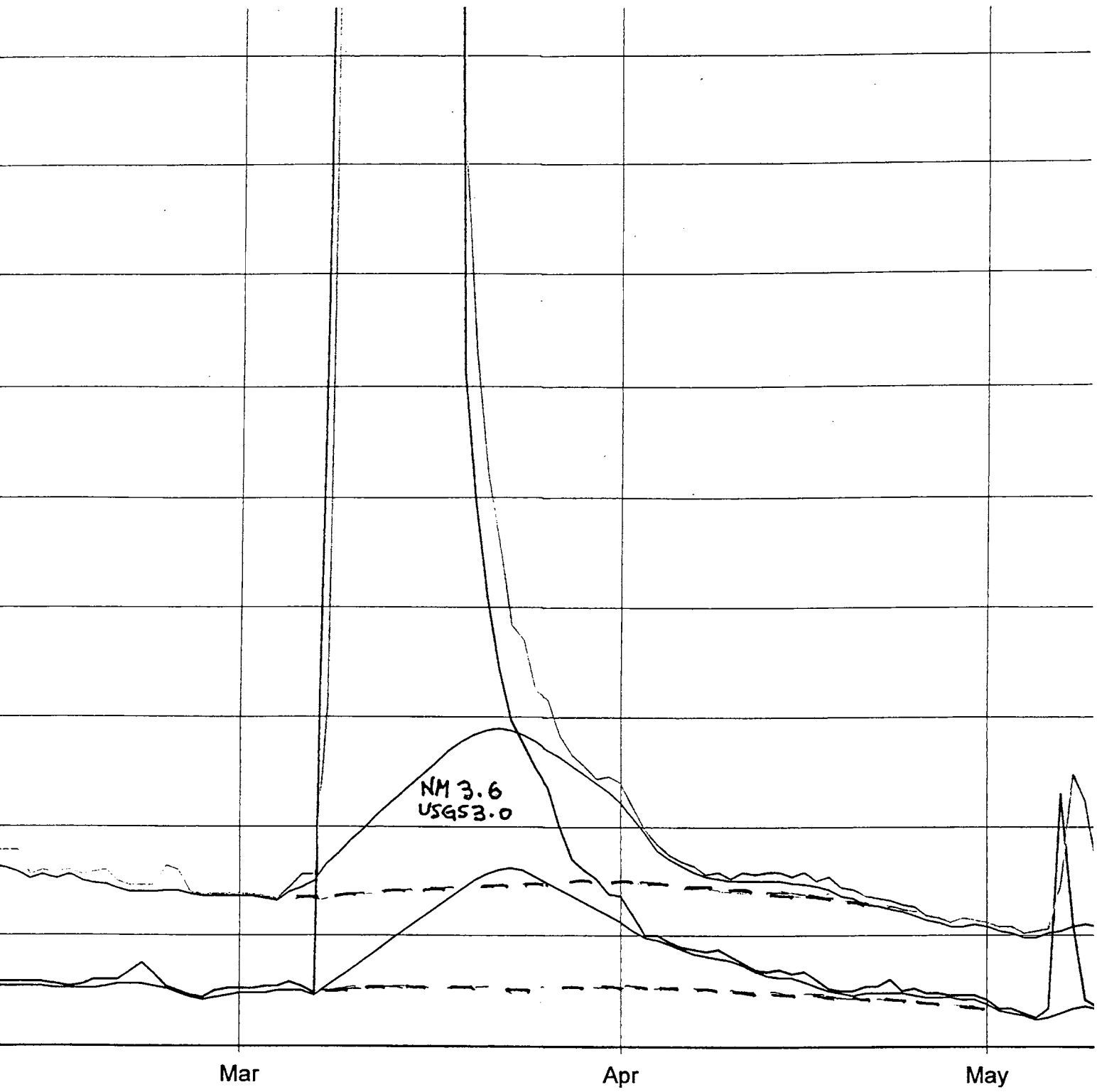
NM computed a final overage of 6.3 TAF and, after re-computation, the River Master computed 6.0 TAF. The difference is in the base inflow estimates, see Item 1 above.

TEXAS'S OBJECTIONS

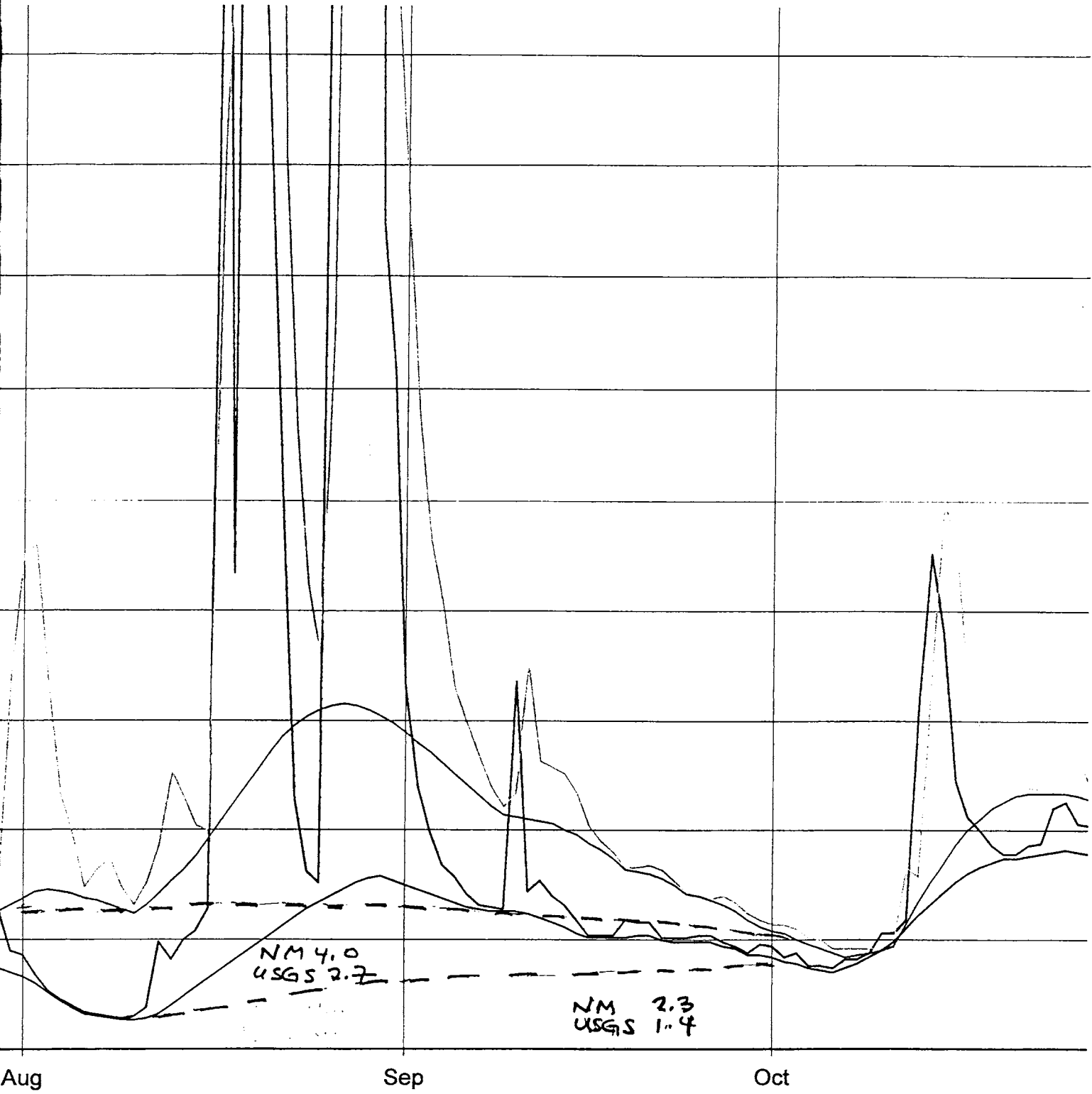
Texas did not have any objections this year.

FINAL CALCULATED DEPARTURE

The Preliminary Report's Final Calculated Departure was an overage of 7.2 TAF. After considering the states' objections, the Final Determination is an overage of 6.0 TAF.



— Acme w/ one day forward lag (cfs)



— Acme Baseflow (cfs)

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