PECOS RIVER COMPACT

Report of the River Master

Water Year 2017

Accounting Year 2018

Final Report

Neil S. Grigg River Master of the Pecos River 905 Edwards Street Fort Collins, Colorado 80524

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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 2017 - Accounting Year 2018 August 18, 2018

<u>Purpose of the Report</u>. 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.

<u>Result of Calculations and Statement of Shortfall or Overage</u>. The results of the calculations in this Final Report show that New Mexico's delivery in Water Year 2017 was an overage of 19,900 acre-feet. The accumulated overage since the beginning of Water Year 1987 is 170,800 acre-feet.

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Neil S. Grigg River Master of the Pecos River

	Pecos River Compact	
	•	
Accu	mulated Shortfall or Ov	erage
	August 18, 2018	
	-	
	Annual Overage or	Accumulated Overage or
Water Year	Shortfall, AF	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
2009	1,600	100,100
2010	-500	99,600
2011	500	100,100
2012	1,900	102,000
2013	-6,300	95,700
2014	700	96,400
2015	27,300	123,700
2016	27,200	150,900
2017	19,900	170,800

Table 1. General Calculation of Annual Departures in TA	F (B.1)		
Water Year	2017		
8/18/2018			
0,10,2010	WY 2015	WY 2016	WY 2017
B1a Index Inflows			
(1) Appual flood inflow			
(a) Cagad flow Bases B bal Alamagarda Dam	100 7	129.6	90.7
(a) Gaged llow Pecos R bel Alamogordo Dam	100.7	120.0	09.7
(b) Flood Innow Alamogordo - Artesia (Table 2)	28.5	-2.6	33.0
(c) Flood Inflow Artesia - Carlsbad (Table 3)	3.2	15.3	13.1
(d) Flood Inflow Carlsbad - State Line (Table 4)	6.2	9.5	6.2
Total (annual flood inflow)	138.6	150.8	142.0
(2) Index Inflow (3-year avg)			143.8
B.1.b. 1947 Condition Delivery Obligation			57.7
(Index Outflow)			
B.1.c. Average Historical (Gaged) Outflow			
(1) Annual historical outflow			
(a) Gaged Flow Pecos River at Red Bluff NM	101 1	75.4	46.9
(b) Gaged Flow Delaware River or Red Bluff NM	5.4	62	
(a) Material diversions Dermit 2254 into C 2712	0.4	0.2	0.0
C) Metered diversions Permit 3234 millio C-2713	0.2	0.2	0.4
	106.7	81.8	50.6
(2) Average Historical Outflow (3-yr average)			/9./
B.1.d. Annual Departure			22.0
C. Adjustments to Computed Departure			
1. Adjustments for Depletions above Alam Dam			
a. Depletions Due to Irrigation (Table 5)	-3.2	1.3	-1.0
b. Depl fr Operation of Santa Rosa Reservoir (Table 6)	16.7	-6.3	9.2
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	114.2	123.6	97.9
(b) Flood Inflow Alamogordo - Artesia	28.5	-2.6	33.0
(c) Flood Inflow Artesia - Carlsbad	3.2	15.3	13.1
(d) Flood Inflow Carlsbad - State Line	6.2	0.5	6.2
(d) 1 lood millow Cansbad - State Line	152.1	1/5 0	150.2
Person and a filling (2 year avg)	152.1	145.0	130.2
Recomputed index innow (3-year avg)			149.4
			00.0
Recomputed 1947 Condition Del Outflow			60.9
(Index Outflow)			
Recomputed Annual Departures			18.8
Credits to New Mexico			
C.2 Depletions Due to McMillan Dike	1		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			19.9
	1	I	

Table 2. Determination	of Floc	d Inflov	ws, Alar	nogord	o Dam	to Arte	sia (B.3	3)					
Water Year	2017												
5/5/2018													
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	TOT
Flow bel Sumner Dam	1.5	1.1	5.3	6.2	6.1	38.4	15.7	5.5	5.5	3.3	0.2	0.9	89.7
FtSumner Irrig Div	0.0	0.0	4.2	4.9	4.5	5.8	5.4	4.2	4.7	2.6	0.0	0.0	36.4
Ft Sumner ID Return	0.8	0.6	1.3	1.5	2.3	2.3	2.3	2.3	2.1	1.9	1.0	0.8	19.3
Flow past FS IDist	2.3	1.7	2.5	2.8	3.8	34.9	12.7	3.6	2.9	2.6	1.2	1.6	72.6
Channel loss	0.2	0.2	0.7	1.4	1.6	6.5	2.4	1.7	0.9	0.8	0.6	0.2	17.1
Residual Flow	2.0	1.5	1.8	1.4	2.3	28.4	10.3	1.9	2.0	1.8	0.6	1.5	55.6
Base Inflow	1.2	1.9	2.0	0.7	0.6	0.0	0.0	0.2	0.7	1.5	2.1	2.0	12.9
River Pump Divers	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.4
Residual, Artesia	3.3	3.5	3.8	2.0	2.8	28.3	10.2	2.2	2.7	3.2	2.7	3.5	68.0
Pecos Flow Artesia	4.0	3.7	3.9	2.7	2.5	11.9	19.9	13.2	7.3	21.0	6.1	4.7	101.0
Flood Inflow, AD-Art	0.7	0.3	0.1	0.8	-0.3	-16.4	9.7	11.1	4.7	17.8	3.4	1.2	33.0
					_								
Note: Whenever the com	puted flow	w past the Ast the Di	e District	is less									
return flow (Manual, B.3.c	io now pe d).		Strict Cqu										

Table 3. Determination of Flood Inflows, Artesia to	Carlsbad	d (B.4)											
Water Year	2017												
8/19/2018													
	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
Rocky Arroyo at Hwy Br	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Flood Inflow, Art-DS3	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
Pecos R at Dam Site 3	1.5	1.2	5.3	10.2	10.8	14.3	11.4	7.5	9.5	5.0	0.0	0.0	76.6
CB Sprgs New Water (from Table 7)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Total Inflow, DS3 - CB	1.5	1.2	5.3	10.2	10.8	14.4	11.4	7.5	9.5	5.0	0.0	0.0	76.7
Evap Loss, Lake Avalon (from Table 10)	0.1	0.3	0.5	0.4	0.6	0.6	0.5	0.3	0.4	0.3	0.0	0.0	4.0
Storage Chg, Lake Avalon (from Table 11)	1.5	-0.7	-1.4	0.0	-0.6	1.3	-0.7	0.4	0.4	-1.7	-0.8	0.0	-2.3
Carls ID diversions	0.0	0.0	5.6	8.7	10.1	11.5	10.9	7.1	8.9	6.9	0.5	0.0	70.2
93% CID diver	0.0	0.0	5.2	8.1	9.4	10.7	10.1	6.6	8.3	6.4	0.5	0.0	65.3
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	2.0	1.7	1.9	1.8	1.9	1.8	1.6	1.9	1.8	1.8	1.6	1.5	21.1
Pecos R at Carlsbad	2.0	1.7	1.9	1.8	1.9	1.8	1.6	1.9	1.8	1.8	1.6	1.5	21.1
Total Outflow	3.7	1.4	6.2	10.5	11.4	14.5	11.7	9.3	10.9	6.9	1.4	1.6	89.5
Flood Inflow, DS3-CB	2.2	0.2	1.0	0.3	0.6	0.2	0.3	1.8	1.4	1.9	1.4	1.5	12.8
Flood Inflow, Art-CB	2.2	0.2	1.0	0.6	0.6	0.2	0.3	1.8	1.4	1.9	1.4	1.5	13.1

Table 4. Su	mmary Ta	able for Com	putations, C	arlsbad to S	tate Line (B.	5)
Water Year		2017				
8/19/2018						
		BCB - RB		Del R	DC	
		RM				
Jan		0.1		0.003	0.0	
Feb		0.0		0.000	0.0	
Mar		0.0		0.000	0.0	
Apr		0.2		0.003	0.0	
May		0.3		0.004	0.0	
Jun		0.3		0.007	0.0	
Jul		0.5		0.033	0.0	
Aug		1.2		0.314	0.0	
Sep		1.1		1.661	0.0	
Oct		0.4		0.013	0.0	
Nov		0.1		0.005	0.0	
Dec		0.1		0.001	0.0	
Total		4.1		2.044	0.0	
			I			
Summary of	flood inflo	ows, Carlsba	ad to State Li	ine, TAF		
Red Bluff -	Carlsbad	+ Dark C R	M calcs)			4.1
Delaware Ri	iver					2.0
Total Floo	d Inflow,	Carlsbad to	State Line			6.2

Table 5. Depletions Due to Irrigation Above Sur	nner Da	m (C.1.	a)					
Water Year	2017							
5/6/2018								
	APR	MAY	JUN	JUL	AUG	SEPT	OCT	TOTAL
Precip Las Vegas FAA AP	0.66	1.44	2.21	3.00	6.30	6.28	0.75	20.64
Eff prec Las Veg FAA AP	0.64	1.36	2.00	2.59	4.08	4.08	0.73	15.48
Precip Pecos Natl Monument*	0.00	0.00	0.00	3.39	2.16	3.37	1.66	10.58
Eff Precip Pecos RS	0.00	0.00	0.00	2.87	1.96	2.86	1.54	9.23
Precip Santa Rosa	0.25	1.73	0.80	1.86	3.53	4.32	3.04	15.53
Eff Precip Santa Ro	0.25	1.60	0.78	1.71	2.97	3.49	2.62	13.42
Average eff precip, ft	0.02	0.08	0.08	0.20	0.25	0.29	0.14	1.06
Consumptive use, ft	0.19	0.36	0.36	0.30	0.27	0.18	0.11	1.77
Unit depletion rate (CU less eff precip), ft	0.17	0.28	0.28	0.10	0.02	0.00	0.00	0.85
Acres (most recent inventory)	11529							
Streamflow depletion (actual use), AF	9758							
1947 depletion, AF	10804							
Difference (actual use - 1947 depletion), TAF	-1.0							
Adjustment to Gaged Flow, Pecos River below	Sumner	Dam, 7	ΓAF =			-1.0		
* See note on Table 12								

Table 6. Depletion	s Due to	Santa R	losa Res	ervoir O	peration	s (C.1.b)							
Water Year	2017												
8/19/2018													
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	TOTAL
LS 2013 table (USBR),	add 4,200) feet to va	lue shown	; LSR 199	7 tables us	ed (COE);	Add 4,700) feet to va	lue shown				
Lk Sumner ga ht, avg	57.64	58.86	58.85	57.90	57.20	55.48	55.22	54.47	53.14	59.01	60.20	61.49	
LS content, AF, avg	28556	31327	31107	29179	27741	24472	23924	22673	20294	31548	34287	37456	
LS area, acres, avg	2060	2204	2193	2093	2015	1840	1815	1758	1641	2215	2353	2523	
LS evap, inches	2.79	3.92	10.68	11.29	14.26	16.12	15.70	11.12	10.63	7.60	3.60	2.79	110.50
.77 LS Evap	2.15	3.02	8.22	8.69	10.98	12.41	12.09	8.56	8.19	5.85	2.77	2.15	85.09
LS Precip, inches	0.98	0.07	0.88	1.23	0.53	1.03	1.71	2.68	3.52	6.54	0.00	0.00	19.17
Net LS Evap, inches	1.17	2.95	7.34	7.46	10.45	11.38	10.38	5.88	4.67	-0.69	2.77	2.15	65.92
LSum Evaploss, TAF	0.20	0.54	1.34	1.30	1.75	1.75	1.57	0.86	0.64	-0.13	0.54	0.45	10.82
L S Rosa ga ht, avg	33.97	33.99	34.08	36.24	39.69	39.61	26.65	31.38	33.57	46.88	48.26	48.06	
LSR content, AF, avg	51364	51414	51642	57300	67119	66880	35013	45086	50359	90663	95679	94941	
LSR area, acres, avg	2525	2526	2533	2709	2981	2975	1945	2326	2492	3567	3707	3685	
LSR evap, inches	3.72	4.98	8.58	8.53	10.68	12.89	12.27	8.47	8.71	6.27	4.99	3.72	93.81
.77 LSR Evap	2.86	3.83	6.61	6.57	8.22	9.93	9.45	6.52	6.71	4.83	3.84	2.86	72.23
LSR precip, inches	2.08	0.37	0.84	0.25	1.73	0.80	1.86	3.53	4.32	3.04	0.00	0.00	18.82
Net LSR Evap, inches	0.78	3.46	5.77	6.32	6.49	9.13	7.59	2.99	2.39	1.79	3.84	2.86	53.41
LSR Evaploss, TAF	0.17	0.73	1.22	1.43	1.61	2.26	1.23	0.58	0.50	0.53	1.19	0.88	12.32
Total evaploss, TAF	0.37	1.27	2.56	2.73	3.37	4.01	2.80	1.44	1.13	0.40	1.73	1.33	23.14
Sum contents, AF	79920	82741	82749	86479	94860	91352	58937	67759	70653	122211	129966	132397	
1947 area, acres	3227	3312	3312	3423	3660	3564	2705	2926	3024	4361	4600	4600	
1947 evaploss, TAF	0.31	0.81	2.03	2.13	3.19	3.38	2.34	1.43	1.18	-0.25	1.06	0.82	18.44
current-1947evaploss	0.05	0.46	0.53	0.60	0.18	0.63	0.46	0.01	-0.04	0.65	0.67	0.51	4.70
						Annual ad	ljustment f	or excess	evaporation	า =			4.7
ADJUSTMENT FOR E	XCESSIVE	E STORAG	SE IN SAN	TA ROSA	RESERVO	DIR							
			2016	2016	2017	2017							
			Gage	Storage	Gage	Storage							
EndYear Sumner Sto			4256.90	2/141	4262.13	39071							
EndYear S R Sto			4731.80	46070	4748.00	94720							
Sum				/3211		133791							
Sto Adjustment, TAF						4.5							
Adjustm Ex Evap, TAF						4.7							
Total Adjustment, TAF						9.2							
	Storage	adjustmer	t										
	Both eq	ual or less	than 129.3	TAF, adju	stment is z	zero							
	Both gre	ater than '	29.3 TAF ,	subtract p	revious fro	m current	year						
	Current	year less t	han 129.3	TAF, previ	ous greate	<u>r than 129</u>	. <u>3 TAF, su</u>	btract prev	ious year f	rom 129.3	TAF		
	Current	year great	er than 129	3.3 TAF, pr	evious yea	ar less thar	ו 129.3 TA	F, subtract	129.3 TA	- from cur	rent year		

Table 7. Carlsbad Springs New Water [B.4.	c.(2)]				
Water Year	2017				
8/19/2018					
		TAF	AF/day	cfs	Totals
Pecos R bel DC		21.1	57.8	29.1	29.1
Dark Canyon		0.0	0.0	0.0	0.0
Pecos R bel Lake Avalon		0.0	0.0	0.0	0.0
Depletion, cfs					2.0
CID lag seep, cfs (from Table 8)					6.8
Return flow, cfs					1.0
Lake Av lagged seep, cfs (from Table 9)					20.1
PR seepage, cfs					3.0
Carls new water, cfs					0.22
Carls new wat, TAF					0.2
Carls new wat monthly, TAF					0.0

Table 8. Carls	bad Mair	n Canal S	Seepage	Lagged	[B.4.c.(2)(e)]							
Water Year	2017												
5/5/2018													
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	TOTAL
WY 2017													
CID, TAF	0	0.0	5.6	8.7	10.1	11.5	10.9	7.1	8.9	6.9	0.5	0.0	70.2
days/mo	31	28	31	30	31	30	31	31	30	31	30	31	365
cfs	0	0	90.6	146.9	164.4	194.1	176.9	115.1	149.2	112.3	8.2	0.0	96.5
cfs, qtr avg			31.2			168.4			147.0			40.5	
WY 2016		1Q	2Q	3Q	4Q								
FLOWS, cfs				127.8	50.7								
SEVEN %				8.9	3.6								
WY 2017 lagg	jed	1Q	2Q	3Q	4Q								
FLOWS, cfs		31.2	168.4	147.0	40.5								
SEVEN %		2.2	11.8	10.3	2.8								
LAG		3.8	7.2	9.4	6.8	Avg =	6.8	cfs					

Table 9. Lake	Avalon	Leakage	Lagged	[B.4.c.(2	2)(g)]								
Water Year	2017												
5/5/2018													
WY 2017	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	TOT
Elev NM rept	75.2	75.8	75.3	74.3	73.9	74.3	74.6	74.6	74.7	74.1	60.4	60.0	
ga ht, avg*	18.22	18.76	18.34	17.34	16.93	17.33	17.55	17.60	17.65	17.06	3.40	3.00	
cfs	25.1	27.7	25.7	20.9	18.9	20.8	21.9	22.1	22.4	19.6	0.0	0.0	
days	31	28	31	30	31	30	31	31	30	31	30	31	365
cfs avg	26.1			20.2			22.1			6.6			18.8
WY 2016		1Q	2Q	3Q	4Q								
cfs				22.4	17.4								
WY 2016 lagg	ed	1Q	2Q	3Q	4Q								
cfs		26.1	20.2	22.1	6.6								
lag cfs		22.6	21.7	22.1	14.0	Avg =	20.1	cfs					
* Computed as	* Computed as WS elev by NM Report minus Gage datum at 3157.0 (USBR datum)												

Table 10. Evaporation Loss at Lake Avalon [B.4.d.(1)]														
Water Year	2017													
5/5/2018														
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ТОТ	
Av WS NM Rept	75.216	75.761	75.339	74.34	73.926	74.327	74.555	74.597	74.653	74.065	60.4	60		
Avalon ga ht, avg, ft*	18.216	18.761	18.339	17.34	16.926	17.327	17.555	17.60	17.653	17.065	3.40	3.00		
Avg area Avalon, ac**	805	826	810	725	680	724	748	753	759	695	0	0		
Panevap Brantley, in.	3.89	6.472	9.56	11.85	14.21	15.04	13.92	9.78	10.14	6.86	5.7822	4.5601	112.06	
Lakeevap Brantley, in.	3.00	4.98	7.36	9.12	10.94	11.58	10.72	7.53	7.81	5.28	4.45	3.51	86.29	
Precip Brantley, in.	1.02	0.13	0.03	1.97	0.74	1.67	2.38	3.37	1.41	0.42	0.4	0.25	13.79	
Netevap, inches	1.98	4.85	7.33	7.15	10.20	9.91	8.34	4.16	6.40	4.86	4.05	3.26	72.50	
Evaploss Av, TAF	0.13	0.33	0.49	0.43	0.58	0.60	0.52	0.26	0.40	0.28	0.00	0.00	4.04	
* Computed as WS elev by NM Report minus Gage datum at 3157.0 (USBR datum)														
** Based on 2006 USBR Area and Capacity Table														

Table 11 Ober as in	01													
Table 11. Change in	n Storage	э, Lаке <i>F</i>	valon [E	5.4.d.(2)]										
(Gage heights are eights	nd of mo	nth)												
Water Year	2017													
5/5/2018														
	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	тот
	2016	2017												
WS NM Rept	74.8	76.6	75.8	74.0	74.0	73.1	75.0	74.0	74.5	75.0	72.4	60.0	60.0	
Gage EOM, ft*	17.8	19.6	18.8	17.0	17.0	16.1	18.0	17.0	17.5	18.0	15.4	3.0	3.0	
Storage, AF**	2300.0	3788.0	3107.0	1715.0	1715.0	1143.0	2457.0	1715.0	2073.0	2457.0	757.0	0.0	0.0	
Change sto, TAF		1.5	-0.7	-1.4	0.0	-0.6	1.3	-0.7	0.4	0.4	-1.7	-0.8	0.0	-2.3
* Computed as WS	elev by N	IM Repo	rt minus	Gage da	atum at 3	3157.0 (l	JSBR da	itum)						
** Based on 2006 USBR Area and Capacity Table														

Table 12. Data Required for River Master Manual Calculations													
Water Year 2017													
8/19/2018	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	TOTAL
STREAMFLOW GAGING RECO	DRDS, T	AF											
Pecos R b Sumner Dam	1.5	1.1	5.3	6.2	6.1	38.4	15.7	5.5	5.5	3.3	0.2	0.9	89.7
Fort Sumner Main C	0.0	0.0	4.2	4.9	4.5	5.8	5.4	4.2	4.7	2.6	0.0	0.0	36.4
Pecos R nr Artesia	4.0	3.7	3.9	2.7	2.5	11.9	19.9	13.2	7.3	21.0	6.1	4.7	101.0
Rio Penasco at Dayton	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
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	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
Rocky Arroyo at Hwy Br nr	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Pecos R at Dam Site 3	1.5	1.2	5.3	10.2	10.8	14.3	11.4	7.5	9.5	5.0	0.0	0.0	76.6
Pecos bel Avalon Dam	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
Carlsbad Main Canal	0.0	0.0	5.6	8.7	10.1	11.5	10.9	7.1	8.9	6.9	0.5	0.0	70.2
Dark Canvon 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 Canvon	2.0	1.7	1.9	1.8	1.9	1.8	1.6	1.9	1.8	1.8	1.6	1.5	21.1
Pecos R at Red Bluff	4.8	3.7	3.7	3.5	3.8	3.4	3.3	4.5	4.3	4.0	4.1	4.0	46.9
Delaware R nr Red Bluff	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.4	1.8	0.2	0.1	0.2	3.3
	0.2	0.2	0.11	011	0.0	0.0	0.0	011		0.2	0	0.2	0.0
GAGE HEIGHTS													
Avalon gage bt, end mo	76.6	75.8	74.0	74.0	73.1	75.0	74.0	74 5	75.0	72.4	60.0	60.0	
Avalon gage ht, end me	75.2	75.8	75.3	74.0	73.9	74.3	74.6	74.6	74.7	74.1	60.4	60.0	
Sumper Lake ga bt, end mo	58.3	59.3	58.5	57.1	56.4	55.9	54.6	54.0	53.0	59.5	60.8	62.1	
Sumper Lake gade bt avg	57.6	58.0	58.8	57.0	57.2	55.5	55.2	54.5	53.0	59.0	60.2	61.5	
Lake S Rosa da bt, and mo	34.0	33.0	35.1	37.8	<u> </u>	30.2	26.4	33.4	37.0	48.4	48.1	48.0	
Lake S Rosa ga ht, end mo	34.0	24.0	2/ 1	37.0	20.7	30.2	20.4	21 4	37.9	40.4	40.1	40.0	
Lake S Rosa ga ni, avg	54.0	54.0	54.1	30.2	39.7	39.0	20.0	51.4		40.9	40.5	40.1	
FRECIFITATION, INCHES													
Brantlov Lako	1.02	0.12	0.03	1 07	0.74	1 67	2.20	2 27	1 / 1	0.42	0.40	0.25	12 70
	1.02	0.13	0.03	0.66	1 1 1	2.21	2.00	6.20	6.29	0.42	0.40	0.23	22 10
Las Vegas I AA AF	1.73	0.37	1 20	0.00	0.00	2.21	2.00	0.30	0.20	1.66	0.20	0.01	12.64
Sente Reco	2.09	0.29	1.20	0.00	0.00	0.00	3.39	2.10	3.37	2.04	0.15	0.00	10.04
Salita Rosa	2.00	0.37	0.04	0.25	1.73	0.80	1.00	3.03	4.32	3.04	0.00	0.00	10.02
Lake Santa Rosa	2.08	0.37	0.84	0.25	1.73	0.80	1.80	3.53	4.32	3.04	0.00	0.00	18.82
	0.98	0.07	0.00	1.23	0.53	1.03	1.71	2.00	3.52	0.54	0.00	0.00	19.17
PAN EVAPORATION, INCHES													
Laka Canta Daga	2.7	5.0		0.5	10.7	10.0	10.0	0.5	0.7	6.2	5.0	27	02.0
Lake Santa Rosa	3.7	5.0	0.0	0.0	10.7	12.9	12.3	C.0	0.7	0.3	5.0	3.7	93.0
	2.0	3.9	10.7	11.3	14.3	10.1	10.7	11.1	10.6	7.0	3.0	2.0	110.5
Brantley Lake	3.9	6.5	9.6	11.9	14.2	15.0	13.9	9.8	10.1	6.9	5.8	4.6	112.1
OTHER REPORTS													
	4.0	4.0		07					~ -	4 -	0.1		40.0
Base Acme-Art, TAF (USGS)	1.2	1.9	2.0	0.7	0.6	0.0	0.0	0.2	0.7	1.5	2.1	2.0	12.9
Pump depi Ac-Artesia, TAF	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.4
Pumping, C-2/13, Malaga B													0.4
NM Irrig inv, acres (3/9/2000)													11529
NM Transfer water use, TAF													
NM salvaged water, TAF													0.00
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	0.0
Texas, use Del water, TAF													

APPENDIX A

RESPONSE TO STATES' OBJECTIONS

RESPONSE TO STATES' OBJECTIONS

Final Report, Accounting Year 2018

NEW MEXICO OBJECTIONS

I. WY 2017 Accounting, Accumulated Overage, and Omission of Evaporative Losses from Water Stored at Texas' Request in 2014 and 2015

This objection concerns the unappropriated flood flow issue, which has been the subject of communications, meetings and negotiations between the States since late 2014. New Mexico filed a Motion to address this issue, and it has been addressed through the Modification Determination of that process.

II. USGS Dark Canyon at Carlsbad Gage Data Adjustment for WY 2014

NM explained the status of the correction needed for USGS Dark Canyon at Carlsbad gage adjustment for WY 2014. The States have subsequently submitted a Joint Motion to address this issue for WY 2014 and it has been incorporated retroactively in the revised Final Reports for Water Years 2014, 2015 and 2016.

III. Updated 2017 USACE Santa Rosa Reservoir Area Capacity Table

NM provided the updated USACE Santa Rosa Reservoir tables and stated that it should be used in WY 2017 accounting. The River Master did not have the table for the Preliminary Report, and has used it for this Final Report for Water Year 2017.

IV. Table 6. Depletions Due to Santa Rosa Reservoir Operations (C.1.b)

NM objected to the omission of the required storage adjustment in Table 6. This objection is accepted and the omission has been corrected.

V. Response to River Master Request for Information Regarding Avalon Reservoir Operations in November 2017.

This issue requires no adjustment in the water accounting, and a discussion of it is included in Appendix B of this Final Report.

VI. Table 12. Data Required for River Master Calculations

New Mexico noted that legacy notes were left on the table, and they have been removed.

TEXAS OBJECTIONS

1. Table 4. Summary Table for Computations, Carlsbad to State Line [B.5]:

Texas objected in the omission of a flood period on the Delaware River. Section B.5.b. of the River Master's Manual (Flood Inflow, Delaware River) states: "Use the daily records furnished by the USGS for the gaging station, Delaware River near Red Bluff,

N.M. and select flood inflows by inspection of daily data." This objection is accepted. The additional flood inflow is small but recognizable. TX computation of 2.043 TAF is accepted.

2. Table 7. Carlsbad Springs New Water [B.4.c(2)], TAF for WY 2017

Texas noted that the calculation was done for a 366-day year. The objection is accepted and the change has been made.

3. Table 3. Flood Inflows, Artesia to Carlsbad [B.4], TAF for WY 2017

Table 3 has been updated.

4. Table 6. Depletions due to Santa Rosa Reservoir Operations [C.1.b].

Texas noted the same problem with Table 6 as in New Mexico's objection IV. The objection is accepted, and the change has been made. However, Texas' computation is based on the outdated Santa Rosa elevation-capacity table, and the computation for the correction in this Final Report uses the 2017 table recently provided by New Mexico.

5. Table 1. General Calculation of Annual Departures [B.1] in TAF for WY 2017:

The final departure has been modified. It is different from Texas' computation due to the issue noted above about Table 6.

FINAL CALCULATED DEPARTURE

The Preliminary Report had a Final Calculated Departure as an overage of 20.8 TAF. After considering the states' objections, the Final Determination is an overage of 19.9 TAF.

APPENDIX B

COMMENTS ABOUT AVALON RESERVOIR DRAINAGE OCTOBER-NOVEMBER 2018

Maintenance of Avalon Reservoir November 2017 to February 2018

Background

In the Preliminary Report for AY 2018, the River Master asked New Mexico to report about whether Avalon releases into the main canal instead of into the Pecos River affected quantities of state-line delivery water. New Mexico had explained earlier (April 24, 2018 email) that from November 2017 through February 2018 the Carlsbad Irrigation District (CID) drained Avalon for maintenance by releasing water into their main canal.

New Mexico's explanation

New Mexico replied along with her objections to the Preliminary Report that CID drained Avalon Reservoir through reservoir releases for irrigation during October 2017 and after November 1 the remaining 553 acre-feet were released by November 12 through the CID Main Canal, to be delivered downstream.

NM reported that these releases from the Main Canal to the Pecos occur through CID's Black River Supply Ditch which empties into the Black River between two USGS gages (Black River above Malaga (8405500) and Black River at Malaga (8406000)). The Black River itself discharges to the Pecos River below the USGS Pecos River below Dark Canyon at Carlsbad (8405200) gage and is not captured as inflow on Table 3 of the Pecos River Final Report.

According to NM, no adjustment is needed for the October 2017 releases as they were used for irrigation and CID irrigation water is accounted for in Table 3. November releases of 486.9 AF (USGS gaged value for November) were not for irrigation but were released back to the river. Although they did not flow through the Carlsbad below Dark Canyon gage, they were still accounted as outflow in Table 3, so the result is the same. However, they might not require the 7-percent adjustment that irrigation water receives (although losses are unknown). In any event, NM concluded that 7-percent of 486.9 AF or 34 AF is *de minimis* and does not require any change in Table 3.

Texas' analysis and reply

Texas provided an analysis to consider the effects on changed delivery through the CID Main Canal instead of directly to the Pecos River. This analysis discusses how the changed route of discharge will affect Carlsbad Springs New Water and how changes in Avalon operations also affect changes in lake storage, evaporation and leakage, as well as CID canal flows and seepage. Texas provided a spreadsheet with the results of her computations.

River Master's analysis

The River Master agrees with New Mexico that the change in route of flow for delivery water of only 486.9 AF results in a *de minimis* effect on water delivery. Texas' identification of the effect on Carlsbad Springs New Water is relevant, although we lack an agreed-upon mechanism to quantify this effect. The effects on Avalon storage and evaporation have been considered in the accounting already. New Mexico operates Avalon Reservoir for its own benefit and is not liable for storage and

evaporation changes due to its decisions about operations because they will be accounted under the Rover Master's Manual. Texas' identification of issues with Carlsbad Main Canal seepage and Avalon seepage are relevant, and a change in the route of state-line delivery water will affect their computation. However, as New Mexico has accounted for most of the Avalon release as irrigation water and only 486.9 AF was delivery water, it is apparent that any changes in computation of canal or reservoir seepage will also be *de minimis*.

If for any reason a more significant change in Avalon operations occurred, the observations that resulted from this query would require additional study to determine if adjustments to water accounting will be required. Per the *de minimis* changes described above, no adjustments to the WY 2017 Preliminary Report accounting is required for the November flows described.

APPENDIX C

SUMMARY OF REVISIONS WATER YEARS 2014, 2015, 2016

Summary of revisions for Water Years 2014, 2015, 2016

August 18, 2018

Final Reports for Water Years 2014, 2015, and 2016 have been revised in response to:

- Joint Motion Requesting Review of the River Master's Final Determination for Water Years 2014, 2015, and 2016
- New Mexico's Motion to Reconcile and Account for Texas Water Stored in New Mexico During Water Years 2014 and 2015

The Joint Motion provides revised Dark Canyon Draw flows for September 18-30, 2014 and a revised Table 4 for utilization in the Final Reports for Water Years 2014, 2015, and 2016. These have been incorporated in the revised Table 4 for Water Year 2014 and the revised Table 1 for the three water years (attached).

Water Year 2015 accounting is affected by adjustments for evaporation credits to New Mexico for storage of Texas water. The procedure is explained in the Modification Determination for New Mexico's Motion to Reconcile and Account for Texas Water Stored in New Mexico During Water Years 2014 and 2015. The adjustment has been incorporated into Table 1 for Water Year 2015.

A summary of the revisions is provided in this table:

WY	AY	Original Final	Revised Final	Revisions		
		Report, TAF	Report, TAF			
2014	2015	1.9	0.7	Revised 2014 DCD gage record		
2015	2016	11.9	27.3	Revised 2014 DCD gage record and		
				one-time credit for evaporation loss		
2016	2017	28.4	27.2	Revised 2014 DCD gage record		

Pecos River Compact							
Accumulated Shortfall or Overage (revised)							
	August 18, 2018						
	Annual Overage or	Accumulated Overage or					
Water Year	Shortfall, AF	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					
2009	1,600	100,100					
2010	-500	99,600					
2011	500	100,100					
2012	1,900	102,000					
2013	-6,300	95,700					
2014	700	96,400					
2015	27,300	123,700					
2016	27,200	150,900					

Table 1. General Calculation of Annual Departures in TAF (B.1)					
Water Year	2014				
8/18/2018					
	WY 2012	WY 2013	WY 2014		
B1 a Index Inflows	WT 2012	WT 2010	VV 1 2014		
(1) Appual flood inflow					
(1) Annual noou innow	C4 0	<u> </u>	100.0		
(a) Gaged flow Pecos R bel Alamogordo Dam	64.9	63.6	120.6		
(b) Flood Inflow Alamogordo - Artesia (Table 2)	-17.2	54.4	57.3		
(c) Flood Inflow Artesia - Carlsbad (Table 3)	11.2	39.9	42.5		
(d) Flood Inflow Carlsbad - State Line (Table 4)	3.2	23.2	128.3		
Total (annual flood inflow)	62.1	181.1	348.7		
(2) Index Inflow (3-year avg)			197.3		
B.1.b. 1947 Condition Delivery Obligation			90.5		
(Index Outflow)					
B 1 c. Average Historical (Gaged) Outflow					
(1) Annual historical outflow					
(a) Gaged Flow Pecce River at Red Bluff NM	177	51.0	1/6.6		
(a) Gaged How Pecos River at Red Diuli NM	17.7	12.2	140.0		
(b) Gaged Flow Delaware River fil Red Bluit Nivi	1.7	12.2	40.3		
(c) Metered diversions Permit 3254 Into C-2713	0.0	0.2	0.2		
I otal Annual Historical Outflow	19.4	63.4	195.1		
(2) Average Historical Outflow (3-yr average)			92.6		
B.1.d. Annual Departure			2.2		
C. Adjustments to Computed Departure					
1. Adjustments for Depletions above Alam Dam					
a. Depletions Due to Irrigation (Table 5)	3.2	2	-0.2		
b. Depl fr Operation of Santa Rosa Reservoir (Table 6)	1.0	8.6	-1.7		
c. Transfer of Water Use to Upstream of AD	0	0	0		
Recomputed Index Inflows					
(1) Appual flood inflow					
(a) Gaged flow Peece P bel Alamogarda Dam	60.1	74.2	110 7		
(a) Gaged now Fecos R ber Alamogoruo Dam	09.1	74.2	57.0		
(b) Flood Innow Alamogoruo - Artesia	-17.2	54.4	57.3		
	11.2	39.9	42.5		
(d) Flood Inflow Carlsbad - State Line	3.2	23.2	128.3		
Total (annual flood inflow)	66.3	191.7	346.8		
Recomputed Index Inflow (3-year avg)			201.6		
Recomputed 1947 Condition Del Outflow			93.3		
(Index Outflow)					
Recomputed Annual Departures			-0.6		
· · ·					
Credits to New Mexico					
C.2 Depletions Due to McMillan Dike			14		
C 3 Salvage Water Analysis			<u>,,,,</u>		
C 4 Unappropriated Flood Waters			0		
C.5 Toxas Water Stored in NM Pasanyaira			0		
C.6 Papaficial C.11. Dalawara Diver Weter			0		
			0		
Final Calculated Departure, TAF			0.7		

Table 1. General Calculation of Annual Departures in TAF (B.1)					
Water Year	2015				
8/18/2018					
0,10,2010	WY 2013	WY 2014	WY 2015		
B1a Index Inflows	111 2010		111 2010		
(1) Appual flood inflow					
(a) Cagad flow Bases B bal Alamagarda Dam	62.6	120.6	100.7		
(a) Gaged llow Pecos R bel Alamogordo Dam	03.0	120.6	100.7		
(b) Flood Innow Alamogordo - Artesia (Table 2)	54.4	57.3	28.5		
(c) Flood Inflow Artesia - Carlsbad (Table 3)	39.9	42.5	3.2		
(d) Flood Inflow Carlsbad - State Line (Table 4)	23.2	128.3	6.2		
Total (annual flood inflow)	181.1	348.7	138.6		
(2) Index Inflow (3-year avg)			222.8		
B.1.b. 1947 Condition Delivery Obligation			107.5		
(Index Outflow)					
B.1.c. Average Historical (Gaged) Outflow					
(1) Annual historical outflow					
(a) Gaged Flow Pecos River at Red Bluff NM	51.0	146.6	101 1		
(b) Gaged Flow Delaware River or Red Bluff NM	12.2	140.0	5.4		
(a) Material diversions Dermit 2254 into C 2712	12.2	40.3	0.4		
C) Metered diversions Permit 3234 millio C-2713	0.2	0.2	0.2		
	63.4	195.1	106.7		
(2) Average Historical Outflow (3-yr average)			121.7		
B.1.d. Annual Departure			14.2		
C. Adjustments to Computed Departure					
1. Adjustments for Depletions above Alam Dam					
a. Depletions Due to Irrigation (Table 5)	2.0	-0.2	-3.2		
b. Depl fr Operation of Santa Rosa Reservoir (Table 6)	8.6	-1.7	16.7		
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	74.2	118 7	114.2		
(b) Flood Inflow Alamogordo - Artesia	54.4	57.3	28.5		
(c) Flood Inflow Artesia - Carlsbad	30.0	42.5	3.2		
(d) Flood Inflow Carlsbad - State Line	23.2	128.3	6.2		
(d) 1 lood millow Cansbad - State Line	101.7	246.9	152.1		
Person and a filling (2 year avg)	191.7	340.0	102.1		
Recomputed index innow (3-year avg)			230.2		
			440.7		
Recomputed 1947 Condition Del Outflow			112.7		
(Index Outflow)					
Recomputed Annual Departures			9.1		
Credits to New Mexico					
C.2 Depletions Due to McMillan Dike	1		1.6		
C.3 Salvage Water Analysis			0		
C.4 Unappropriated Flood Waters			0		
C.5 Texas Water Stored in NM Reservoirs			16.6		
C.6 Beneficial C.U. Delaware River Water			0		
Final Calculated Departure TAF			27 3		
	1	I			

Water Year 2016 8/18/2018 WY 2014 WY 2015 B.1.a. Index Inflows WY 2014 WY 2015 (1) Annual flood inflow 120.6 100.7 128.6 (a) Gaged flow Pecos R bel Alamogordo Dam 120.6 100.7 128.6 (b) Flood Inflow Artesia - Carlsbad (Table 3) 42.5 3.2 15.3 (c) Flood Inflow Artesia - Carlsbad (Table 3) 42.5 3.2 15.3 (d) Flood Inflow Carlsbad - State Line (Table 4) 128.3 6.2 9.5 Total (annual flood inflow) 348.7 138.6 150.8 (2) Index Inflow (3-year avg) 212.7 1.1. 1447 Condition Delivery Obligation 100.7 (Index Outflow) 100.7 101.7 75.4 6.2 9.2 B.1.b. 1447 Condition Delivery Obligation 100.7 100.7 100.7 101.7 (a) Gaged Flow Decos River at Red Bluff NM 146.6 101.1 75.4 6.2 (b) Gaged Flow Decos River at Red Bluff NM 48.3 5.4 6.2 10.2 102.7 102.7 102	Table 1. General Calculation of Annual Departures in TAF (B.1)					
8/18/2018 WY 2014 WY 2015 WY 2016 B.1.a. Index Inflows 1 WY 2015 WY 2016 WY 2016 (1) Annual flood inflow 120.6 100.7 128.6 .2 (b) Flood Inflow Alamogordo - Artesia (Table 2) 57.3 28.5 -2.6 (c) Flood Inflow Carlsbad - State Line (Table 4) 128.3 6.2 9.5 Total (annual flood inflow) 348.7 138.6 150.8 (2) Index Inflow (3-year avg) 212.7 1 100.7 (Index Outflow) B.1.c. Average Historical (Gaged) Outflow 1 100.7 (Index Outflow) 100.7 (a) Gaged Flow Pecos River at Red Bluff NM 146.6 101.1 75.4 (b) Gaged Flow Pecos River at Red Bluff NM 48.3 5.4 6.2 (c) Caged Flow Pecos River at Red Bluff NM 48.3 5.4 6.2 (c) Caged Flow Pecos River at Red Bluff NM 48.6 101.1 75.4 (b) Gaged Flow Pecos River at Red Bluff NM 48.3 5.4 6.2 (c) Caged Flow Pecos River at Red Bluff NM 48.3 5.4 6.2 (c) Caged Flow Pecos River at Red Bluff NM 48.6	Water Year	2016				
WY 2014 WY 2015 WY 2016 B.1.a. Index Inflows	8/18/2018					
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(D) Flood Inflow Artesia - Carlsbad (Table 2) 37.3 2.5.3 -2.6 (C) Flood Inflow Artesia - Carlsbad (Table 3) 42.5 3.2 15.3 (d) Flood Inflow Carlsbad - State Line (Table 3) 42.5 3.2 15.3 (d) Flood Inflow (3-year avg) 348.7 138.6 150.8 (2) Index Inflow (3-year avg) 212.7 B.1.b. 1947 Condition Delivery Obligation 100.7 (Index Outflow) 100.7 (I) Annual historical Outflow 102.2 0.2 (c) Metered diversions Permit 3254 into C-2713 0.2 0.2 Total Annual Historical Outflow (3-yr average) 106.7 81.8 (2) Average Historical Outflow (3-yr average) 127.9 1.3 I. Adjustments for Depletions above Alam Dam 2.1.7 6.3	(a) Gaged 100 Fecos R bel Aldinogoldo Dalli	120.0	100.7	120.0		
(C) Flood Inflow Carlsbad - State Line (Table 4) 128.3 6.2 9.5 Total (annual flood inflow) 348.7 138.6 150.8 (2) Index Inflow (3-year avg) 212.7 B.1.b. 1947 Condition Delivery Obligation 100.7 (Index Outflow) 100.7 B.1.c. Average Historical (Gaged) Outflow 100.7 (I) Gaged Flow Pecos River at Red Bluff NM 146.6 101.1 (a) Gaged Flow Delaware River nr Red Bluff NM 48.3 5.4 6.2 (c) Metered diversions Permit 3254 into C-2713 0.2 0.2 0.2 Total Annual Historical Outflow 195.1 106.7 81.8 (2) Average Historical Outflow (3-yr average) 127.9 127.9 B.1.d. Annual Departure 27.2 - - (Adjustments to Computed Departure 27.2 - - 1. Adjustments for Depletions above Alam Dam - - - 1. Adjustments for Depletions above Alam Dam - - - - (1) Annual flood inflow - 118.7 114.2 123.6 - - - - - - - - </td <td>(b) Flood Innow Alamogordo - Artesia (Table 2)</td> <td>57.3</td> <td>20.5</td> <td>-2.0</td>	(b) Flood Innow Alamogordo - Artesia (Table 2)	57.3	20.5	-2.0		
(d) Flood Inflow Carlsbad - State Line (Table 4) 128.3 6.2 9.5 Total (annual flood inflow) 348.7 138.6 150.8 (2) Index Inflow (3-year avg) 212.7 B.1.b. 1947 Condition Delivery Obligation 100.7 (Index Outflow) 100.7 B.1.c. Average Historical (Gaged) Outflow 100.7 (1) Annual historical outflow 101.7 (a) Gaged Flow Pecos River at Red Bluff NM 146.6 101.1 (a) Gaged Flow Pecos River at Red Bluff NM 48.3 5.4 (c) Metered diversions Permit 3254 into C-2713 0.2 0.2 Total Annual Historical Outflow 195.1 106.7 81.8 (2) Average Historical Outflow (3-yr average) 127.9 127.9 B.1.d. Annual Departure 27.2 2 2 C. Adjustments to Computed Departure 1 1.4 128.6 10.0 1. Adjustments for Depletions above Alam Dam -0.2 -3.2 1.3 b. Depl fr Operation of Santa Rosa Reservoir (Table 6) -1.7 16.7 -6.3 (1) Annual flood inflow 1 114.2 128.6 (2.5 -2.6 (2.6) Flo	(c) Flood Inflow Artesia - Carisbad (Table 3)	42.5	3.2	15.3		
Total (annual flood inflow) 348.7 138.6 150.8 (2) Index Inflow (3-year avg) 212.7 B.1.b. 1947 Condition Delivery Obligation 100.7 (Index Outflow) 100.7 B.1.c. Average Historical (Gaged) Outflow 100.7 (Index Outflow) 100.7 B.1.c. Average Historical (Gaged) Outflow 100.7 (a) Gaged Flow Pecos River at Red Bluff NM 446.6 (a) Gaged Flow Delaware River nr Red Bluff NM 48.3 (c) Metered diversions Permit 3254 into C-2713 0.2 0.2 Total Annual Historical Outflow 195.1 106.7 81.8 (2) Average Historical Outflow (3-yr average) 127.9 127.9 B.1.d. Annual Departure 27.2 2.4 21.7.2 C. Adjustments for Depletions above Alam Dam - - - 1. Adjustments for Depletions above Alam Dam - - - - 1. Annual flood inflow 0 0 0 0 0 Recomputed Index Inflows - - - - - - - -<	(d) Flood Inflow Carlsbad - State Line (Table 4)	128.3	6.2	9.5		
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B.1.b. 1947 Condition Delivery Obligation 100.7 (Index Outflow) 100.7 B.1.c. Average Historical (Gaged) Outflow 100.7 (1) Annual historical outflow 100.7 (a) Gaged Flow Pecos River at Red Bluff NM 146.6 101.1 (b) Gaged Flow Delaware River nr Red Bluff NM 48.3 5.4 6.2 (c) Metered diversions Permit 3254 into C-2713 0.2 0.2 0.2 Total Annual Historical Outflow (3-yr average) 1106.7 81.8 (2) Average Historical Outflow (3-yr average) 127.9 B.1.d. Annual Departure 27.2 C. Adjustments to Computed Departure 11.3 1. Adjustments for Depletions above Alam Dam 2.3.2 a. Depletions Due to Irrigation (Table 5) -0.2 -3.2 C. Transfer of Water Use to Upstream of AD 0 0 (1) Annual flood inflow 118.7 114.2 123.6 (b) Flood Inflow Alamogordo - Artesia 57.3 2.2.3.2 15.3 (d) Flood Inflow Alamogordo - Artesia 57.3 3.2.5 -2.6 (c) Flood Inflow Carlsbad - State Line 128.3 6.2 9.5 Total (annual flood inflow) </td <td></td> <td></td> <td></td> <td></td>						
(Index Outflow)	B.1.b. 1947 Condition Delivery Obligation			100.7		
B.1.c. Average Historical (Gaged) Outflow	(Index Outflow)					
B.1.c. Average Historical (Gaged) Outflow (1) Annual historical outflow (a) Gaged Flow Pecos River at Red Bluff NM 146.6 101.1 75.4 (b) Gaged Flow Delaware River nr Red Bluff NM 48.3 5.4 6.2 (c) Metered diversions Permit 3254 into C-2713 0.2 0.2 0.2 Total Annual Historical Outflow (3-yr average) 195.1 106.7 81.8 (2) Average Historical Outflow (3-yr average) 127.9 B.1.d. Annual Departure 27.2 C. Adjustments to Computed Departure 1 1. Adjustments for Depletions above Alam Dam 2 a. Depletions Due to Irrigation (Table 5) -0.2 -3.2 b. Depl fr Operation of Santa Rosa Reservoir (Table 6) -1.7 16.7 (1) Annual flood inflows 0 0 0 (1) Annual flood inflows 114.2 123.6 (b) Flood Inflow Artesia - Carlsbad 42.5 3.2 15.3 (d) Flood Inflow Carlsbad - State Line 128.3 6.2 9.5 7.5 (o) Flood Inflow Carlsbad - State Line 128.3 6.2 9.5 7.5 (d) Flood Inflow Carlsbad - State Line 128.3 6.2 9.5						
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(a) Caged Flow Pecos River at Red Bluff NM 146.6 101.1 75.4 (b) Gaged Flow Delaware River nr Red Bluff NM 48.3 5.4 6.2 (c) Metered diversions Permit 3254 into C-2713 0.2 0.2 0.2 Total Annual Historical Outflow (3-yr average) 195.1 106.7 81.8 (2) Average Historical Outflow (3-yr average) 127.9 127.9 B.1.d. Annual Departure 27.2 2 2 C. Adjustments to Computed Departure 1 1 1 1. Adjustments for Depletions above Alam Dam - - - a. Depletions Due to Irrigation (Table 5) -0.2 -3.2 1.3 b. Depl fr Operation of Santa Rosa Reservoir (Table 6) -1.7 16.7 -6.3 c. Transfer of Water Use to Upstream of AD 0 0 0 (a) Gaged flow Pecos R bel Alamogordo Dam 118.7 114.2 123.6 (b) Flood Inflow Alamogordo - Artesia 57.3 28.5 -2.6 (c) Flood Inflow Alamogordo - Artesia 12.1 145.8 Recomputed Index Inflow (3-year avg) 214.9 <t< td=""><td>(1) Annual historical outflow</td><td></td><td></td><td></td></t<>	(1) Annual historical outflow					
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(b) Object Production Service Status100100100100100(c) Metered diversions Permit 3254 into C-27130.20.20.2Total Annual Historical Outflow (3-yr average)195.1106.781.8(2) Average Historical Outflow (3-yr average)127.9B.1.d. Annual Departure27.2C. Adjustments to Computed Departure27.21. Adjustments for Depletions above Alam Dam20.2a. Depletions Due to Irrigation (Table 5)-0.2b. Depl fr Operation of Santa Rosa Reservoir (Table 6)-1.7c. Transfer of Water Use to Upstream of AD00000Recomputed Index Inflows118.7(1) Annual flood inflow118.7(a) Gaged flow Pecos R bel Alamogordo Dam118.7(b) Flood Inflow Atresia - Carlsbad42.5(c) Flood Inflow Carlsbad - State Line128.3(d) Flood Inflow Carlsbad - State Line128.3(d) Caged Inflow (3-year avg)214.9Recomputed Index Inflows102.2(Index Outflow)102.2(Index Outflow)102.2(Index Outflow)102.2(Index Outflow)102.2(Index Outflow)102.2(Index Outflow)102.2(Index Outflow)102.2(Index Outflow)102.2(Index Outflow)102.2(Index Outflow)105.7Credits to New Mexico1.5C.3 Salvage Water Analysis0C.4 Unappropriated Flood Waters0C.5 Texas Wa	(b) Gaged Flow Delaware River or Red Bluff NM	140.0	5.4	62		
(c) Nietered diversions Permit 3254 into C-2713 0.2 0.2 0.2 Total Annual Historical Outflow 195.1 106.7 81.8 (2) Average Historical Outflow (3-yr average) 127.9 B.1.d. Annual Departure 27.2 C. Adjustments to Computed Departure 27.2 I. Adjustments for Depletions above Alam Dam 27.2 a. Depletions Due to Irrigation (Table 5) -0.2 -3.2 b. Depl fr Operation of Santa Rosa Reservoir (Table 6) -1.7 16.7 -6.3 c. Transfer of Water Use to Upstream of AD 0 0 0 Recomputed Index Inflows 118.7 114.2 123.6 (b) Flood Inflow Alamogordo - Artesia 57.3 28.5 -2.6 (c) Flood Inflow Atresia - Carlsbad 42.5 3.2 15.3 (d) Flood Inflow Carlsbad - State Line 128.3 6.2 9.5 Total (annual flood inflow) 346.8 152.1 145.8 Recomputed Index Inflow (3-year avg) 214.9 24.9 Recomputed Index Inflow (3-year avg) 214.9 25.7 Credits to New Mexico 25.7 25.7 Credits to New Mexico	(a) Metered diversions Dermit 2254 into C 2712	40.3	0.4	0.2		
Total Annual Historical Outflow195.1106.781.8(2) Average Historical Outflow (3-yr average)127.9B.1.d. Annual Departure27.2C. Adjustments to Computed Departure27.21. Adjustments for Depletions above Alam Dam2a. Depletions Due to Irrigation (Table 5)-0.2b. Depl fr Operation of Santa Rosa Reservoir (Table 6)-1.7c. Transfer of Water Use to Upstream of AD000Recomputed Index Inflows(1) Annual flood inflow(a) Gaged flow Pecos R bel Alamogordo Dam118.7(b) Flood Inflow Alamogordo - Artesia57.3(c) Flood Inflow Alamogordo - Artesia57.3(d) Flood Inflow Carlsbad42.5(d) Flood Inflow Carlsbad - State Line128.36.29.5Total (annual flood inflow)214.9Recomputed Index Inflow (3-year avg)214.9Recomputed 1947 Condition Del Outflow102.2(Index Outflow)102.2Recomputed Annual Departures25.7Credits to New Mexico0C.3 Salvage Water Analysis0C.4 Unappropriated Flood Waters0C.5 Texas Water Stored in NM Reservoirs0C.3 Calculated Departure. TAF27.2	(c) Metered diversions Permit 3254 Into C-2713	0.2	0.2	0.2		
(2) Average Historical Outflow (3-yr average) 127.9 B.1.d. Annual Departure 27.2 C. Adjustments to Computed Departure 27.2 1. Adjustments for Depletions above Alam Dam 27.2 a. Depletions Due to Irrigation (Table 5) -0.2 b. Depl fr Operation of Santa Rosa Reservoir (Table 6) -1.7 c. Transfer of Water Use to Upstream of AD 0 0 0 Recomputed Index Inflows 118.7 (1) Annual flood inflow 128.5 (c) Flood Inflow Artesia - Carlsbad 42.5 (c) Flood Inflow Artesia - Carlsbad 42.5 (d) Flood Inflow Carlsbad - State Line 128.3 Total (annual flood inflow) 346.8 Recomputed Index Inflow (3-year avg) 214.9 Recomputed Index Inflow (3-year avg) 214.9 Recomputed Index Inflow (3-year avg) 214.9 Recomputed Annual Departures 25.7 Credits to New Mexico 1.5 C.2 Depletions Due to McMillan Dike 1.5 C.3 Salvage Water Analysis 0 C.4 Unappropriated Flood Waters 0 C.5 Texas Water Stored in NM Reservoirs 0 C.5		195.1	106.7	81.8		
B.1.d. Annual Departure 27.2 B.1.d. Annual Departure 27.2 C. Adjustments to Computed Departure 1 1. Adjustments for Depletions above Alam Dam 1 a. Depletions Due to Irrigation (Table 5) -0.2 -3.2 b. Depl fr Operation of Santa Rosa Reservoir (Table 6) -1.7 16.7 -6.3 c. Transfer of Water Use to Upstream of AD 0 0 0 Recomputed Index Inflows 118.7 114.2 123.6 (1) Annual flood inflow 118.7 114.2 123.6 (b) Flood Inflow Alamogordo - Artesia 57.3 28.5 -2.6 (c) Flood Inflow Artesia - Carlsbad 42.5 3.2 15.3 (d) Flood Inflow Carlsbad - State Line 128.3 6.2 9.5 Total (annual flood inflow) 346.8 152.1 145.8 Recomputed Index Inflow (3-year avg) 214.9 214.9 Recomputed 1947 Condition Del Outflow 102.2 102.2 (Index Outflow) 102.2 1.5 1.5 C.2 Depletions Due to McMillan Dike 1.5 25.7 25.7 Credits to New Mexico 0 0<	(2) Average Historical Outflow (3-yr average)			127.9		
B.1.d. Annual Departure 27.2 C. Adjustments to Computed Departure 1 1. Adjustments for Depletions above Alam Dam 1 a. Depletions Due to Irrigation (Table 5) -0.2 -3.2 1.3 b. Depl fr Operation of Santa Rosa Reservoir (Table 6) -1.7 16.7 -6.3 c. Transfer of Water Use to Upstream of AD 0 0 0 Recomputed Index Inflows 1 118.7 114.2 123.6 (1) Annual flood inflow 118.7 114.2 123.6 (a) Gaged flow Pecos R bel Alamogordo Dam 118.7 114.2 123.6 (b) Flood Inflow Alamogordo - Artesia 57.3 28.5 -2.6 (c) Flood Inflow Carlsbad - State Line 128.3 6.2 9.5 Total (annual flood inflow) 346.8 152.1 145.8 Recomputed Index Inflow (3-year avg) 214.9 24.9 Recomputed 1947 Condition Del Outflow 102.2 102.2 (Index Outflow) 25.7 25.7 26.7 Credits to New Mexico 25.3 0 0 C.2 Depletions Due to McMillan Dike 1.5 0 0						
C. Adjustments to Computed DepartureImage: Construct of the second s	B.1.d. Annual Departure			27.2		
C. Adjustments to Computed Departure 1. Adjustments for Depletions above Alam Dam 1. Adjustments for Depletions above Alam Dam a. Depletions Due to Irrigation (Table 5) -0.2 -3.2 1.3 b. Depl fr Operation of Santa Rosa Reservoir (Table 6) -1.7 16.7 -6.3 c. Transfer of Water Use to Upstream of AD 0 0 0 Recomputed Index Inflows 1 114.2 123.6 (1) Annual flood inflow 118.7 114.2 123.6 (a) Gaged flow Pecos R bel Alamogordo Dam 118.7 114.2 123.6 (b) Flood Inflow Alamogordo - Artesia 57.3 28.5 -2.6 (c) Flood Inflow Artesia - Carlsbad 42.5 3.2 15.3 (d) Flood Inflow Carlsbad - State Line 128.3 6.2 9.5 Total (annual flood inflow) 346.8 152.1 145.8 Recomputed Index Inflow (3-year avg) 214.9 214.9 Recomputed 1947 Condition Del Outflow 102.2 102.2 (Index Outflow) 25.7 25.7 Credits to New Mexico 25.7 25.7 Credits to New Mexico 0 0 C.3 Salvage W						
1. Adjustments for Depletions above Alam Dam -0.2 -3.2 1.3 a. Depletions Due to Irrigation (Table 5) -0.2 -3.2 1.3 b. Depl fr Operation of Santa Rosa Reservoir (Table 6) -1.7 16.7 -6.3 c. Transfer of Water Use to Upstream of AD 0 0 0 Recomputed Index Inflows	C. Adjustments to Computed Departure					
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b. Depl fr Operation of Santa Rosa Reservoir (Table 6) -1.7 16.7 -6.3 c. Transfer of Water Use to Upstream of AD 0 0 0 Recomputed Index Inflows (1) Annual flood inflow Recos R bel Alamogordo Dam 118.7 114.2 123.6 (b) Flood Inflow Alamogordo - Artesia 57.3 28.5 -2.6 (c) Flood Inflow Artesia - Carlsbad 42.5 3.2 15.3 (d) Flood Inflow Carlsbad - State Line 128.3 6.2 9.5 Total (annual flood inflow) 346.8 152.1 145.8 Recomputed Index Inflow (3-year avg) 214.9 (Index Outflow) 102.2 (Index Outflow) 102.2 (Index Outflow) 25.7 Credits to New Mexico 25.7 Credits to New Mexico 0 C.2 Depletions Due to McMillan Dike 1.5 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 27.2	a. Depletions Due to Irrigation (Table 5)	-0.2	-3.2	1.3		
c. Transfer of Water Use to Upstream of AD 0 0 0 Recomputed Index Inflows	b. Depl fr Operation of Santa Rosa Reservoir (Table 6)	-1.7	16.7	-6.3		
Recomputed Index InflowsImage: Constraint of the second secon	c. Transfer of Water Use to Upstream of AD	0	0	0		
Recomputed Index InflowsImage: Constraint of the second secon						
(1) Annual flood inflow (a) Gaged flow Pecos R bel Alamogordo Dam 118.7 114.2 123.6 (b) Flood Inflow Alamogordo - Artesia 57.3 28.5 -2.6 (c) Flood Inflow Artesia - Carlsbad 42.5 3.2 15.3 (d) Flood Inflow Carlsbad - State Line 128.3 6.2 9.5 Total (annual flood inflow) 346.8 152.1 145.8 Recomputed Index Inflow (3-year avg) 214.9 Recomputed 1947 Condition Del Outflow 102.2 (Index Outflow) 102.2 Credits to New Mexico 25.7 C.2 Depletions Due to McMillan Dike 1.5 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 27.2	Recomputed Index Inflows					
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(a) Ougled how receiver activitian by receiver with an operating of the Dahm 110.1 114.2 112.3 (b) Flood Inflow Alamogordo - Artesia 57.3 28.5 -2.6 (c) Flood Inflow Artesia - Carlsbad 42.5 3.2 15.3 (d) Flood Inflow Carlsbad - State Line 128.3 6.2 9.5 Total (annual flood inflow) 346.8 152.1 145.8 Recomputed Index Inflow (3-year avg) 214.9 214.9 Recomputed 1947 Condition Del Outflow 102.2 102.2 (Index Outflow) 25.7 25.7 Credits to New Mexico 25.7 C.2 Depletions Due to McMillan Dike 1.5 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 27.2	(a) Gaged flow Pecos R bel Alamogordo Dam	118 7	114.2	123.6		
(c) Flood Inflow Attantogoldo - Artesta37.328.3-21.5(c) Flood Inflow Artesia - Carlsbad42.53.215.3(d) Flood Inflow Carlsbad - State Line128.36.29.5Total (annual flood inflow)346.8152.1145.8Recomputed Index Inflow (3-year avg)214.9Recomputed 1947 Condition Del Outflow102.2(Index Outflow)102.2Recomputed Annual Departures25.7Credits to New Mexico105.3C.2 Depletions Due to McMillan Dike1.5C.3 Salvage Water Analysis0C.4 Unappropriated Flood Waters0C.5 Texas Water Stored in NM Reservoirs0C.6 Beneficial C.U. Delaware River Water0Final Calculated Departure, TAF27.2	(b) Elood Inflow Alamogordo - Artesia	57.3	28.5	-2.6		
(c) Flood Inflow Artesia - Calisbad42.53.213.3(d) Flood Inflow Carlsbad - State Line128.36.29.5Total (annual flood inflow)346.8152.1145.8Recomputed Index Inflow (3-year avg)214.9Recomputed 1947 Condition Del Outflow102.2(Index Outflow)102.2(Index Outflow)25.7Credits to New Mexico25.7Credits to New Mexico1.5C.3 Salvage Water Analysis0C.4 Unappropriated Flood Waters0C.5 Texas Water Stored in NM Reservoirs0C.6 Beneficial C.U. Delaware River Water0Final Calculated Departure. TAF27.2	(c) Flood Inflow Artonia Carlebad	37.3	20.3	-2.0		
(d) Flood fillow Carlsbad - State Life128.36.29.5Total (annual flood inflow)346.8152.1145.8Recomputed Index Inflow (3-year avg)214.9Recomputed 1947 Condition Del Outflow102.2(Index Outflow)102.2Recomputed Annual Departures25.7Credits to New Mexico1.5C.2 Depletions Due to McMillan Dike1.5C.3 Salvage Water Analysis0C.4 Unappropriated Flood Waters0C.5 Texas Water Stored in NM Reservoirs0C.6 Beneficial C.U. Delaware River Water0Final Calculated Departure. TAF27.2	(d) Flood Inflow Carlabad - State Line	42.0	5.2	15.5		
Total (annual flood inflow)346.8152.1145.8Recomputed Index Inflow (3-year avg)214.9Recomputed 1947 Condition Del Outflow102.2(Index Outflow)102.2Recomputed Annual Departures25.7Credits to New Mexico25.7C.2 Depletions Due to McMillan Dike1.5C.3 Salvage Water Analysis0C.4 Unappropriated Flood Waters0C.5 Texas Water Stored in NM Reservoirs0C.6 Beneficial C.U. Delaware River Water0Final Calculated Departure. TAF27.2	(d) Flood Innow Cansbad - State Line	120.3	0.2	9.0		
Recomputed Index Inflow (3-year avg) 214.9 Recomputed 1947 Condition Del Outflow 102.2 (Index Outflow) 102.2 Recomputed Annual Departures 25.7 Credits to New Mexico 102.2 C.2 Depletions Due to McMillan Dike 1.5 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 27.2	Total (annual flood inflow)	346.8	152.1	145.8		
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(Index Outflow) 25.7 Recomputed Annual Departures 25.7 Credits to New Mexico 1.5 C.2 Depletions Due to McMillan Dike 1.5 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 27.2	Recomputed 1947 Condition Del Outflow			102.2		
Recomputed Annual Departures 25.7 Credits to New Mexico 1 C.2 Depletions Due to McMillan Dike 1.5 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 27.2	(Index Outflow)					
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Credits to New Mexico1.5C.2 Depletions Due to McMillan Dike1.5C.3 Salvage Water Analysis0C.4 Unappropriated Flood Waters0C.5 Texas Water Stored in NM Reservoirs0C.6 Beneficial C.U. Delaware River Water0Final Calculated Departure. TAF27 2	Recomputed Annual Departures			25.7		
Credits to New Mexico1.5C.2 Depletions Due to McMillan Dike1.5C.3 Salvage Water Analysis0C.4 Unappropriated Flood Waters0C.5 Texas Water Stored in NM Reservoirs0C.6 Beneficial C.U. Delaware River Water0Final Calculated Departure. TAF27 2						
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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 27 2	C.3 Salvage Water Analysis			0		
C.5 Texas Water Stored in NM Reservoirs 0 C.6 Beneficial C.U. Delaware River Water 0 Final Calculated Departure. TAF 27 2	C.4 Unappropriated Flood Waters			0		
C.6 Beneficial C.U. Delaware River Water 0 Final Calculated Departure. TAF 27 2	C.5 Texas Water Stored in NM Reservoirs			0		
Final Calculated Departure, TAF 272	C.6 Beneficial C.U. Delaware River Water			0		
Final Calculated Departure, TAF 27 2						
	Final Calculated Departure, TAF			27.2		

Table 4. Summary Table for Computations, Carlsbad to State Line (B.5)							
Water Year	2014						
8/18/2018							
	BCB - RB	BCB - RB*	Del R***	DC			
	RM	USGS	USGS				
Jan	0.0	0.0	0.0	0.0			
Feb	0.0	0.2	0.0	0.0			
Mar	0.0	0.2	0.0	0.0			
Apr	0.2	0.7	0.0	0.0			
May	0.2	0.1	0.0	0.0			
Jun	0.2	0.2	0.0	0.0			
Jul**	0.1	0.3	0.1	0.0			
Aug	0.2	0.0	0.0	0.0			
Sep**	79.7	59.6	46.3	0.0			
Oct	0.8	1.0	0.0	0.0			
Nov	0.3	0.8	0.0	0.0			
Dec	0.0	0.2	0.0	0.0			
Total	81.9	63.2	46.4	0.0			
Summary of	flood inflow	s, Carlsbad t	to State Line	, TAF			
Red Bluff -	Carlsbad +	Dark C RM o	calcs)		81.9		
Delaware River (USGS Computation)					46.4		
Total Flood Inflow, Carlsbad to State Line				128.3			
* USGS ca	* USGS calculations BCB-RB for comparison only. Negative FIF reports not included.						
** See sepa	rate calculat	ion for BCB	to RB in the	Preliminary	Report		
*** As correc	cted, see Re	sponse to O	bjections.				

How to record New Mexico's evaporation credit?

The accounting for New Mexico's evaporation credit is retroactive, and how to record the credit must be determined. The River Master's Manual at C.5 addresses the issue of stored Texas water:

5. Texas Water Stored in New Mexico Reservoirs

If a quantity of the Texas allocation is stored in facilities constructed in New Mexico at the request of Texas, then to the extent not inconsistent with the conditions imposed pursuant to Article IV(e) of the Compact, this quantity will be reduced by the amount of reservoir losses attributable to its storage, and, when released for delivery to Texas, the quantity released less channel losses is to be delivered by New Mexico at the New Mexico–Texas state line.

This general instruction applies to the water storage situation in Water Years 2014 and 2015 but does not specify when and how to account for the released water.

The credit can be entered in either of two ways:

- The gaged flows for the actual time of the releases could be modified, which would change Table 3 and Table 1. In that way, the assumption would be that New Mexico would have been entitled to deliver the water if it had not been evaporated at the same time that it delivered the remaining stored water. This approach would spread the credit over three water years due to the three-year averaging.
- The credit could be entered for item C.5 on Table 1, which is Texas Water Stored in New Mexico Reservoirs. This would apply all of the credit in one year and it would not be spread over the three-years by averaging.

If New Mexico was close to a shortfall situation as described in the Amended Decree, it would matter which approach is taken because the three-year averaging approach might trigger the actions required in Section II.A.2 of the Decree, which outlines requirements for a delivery plan. However, New Mexico has an accumulated overage and neither approach creates an advantage to either state. The second approach, to enter the credit at item C.5 on Table 1, offers more simplicity and was selected by the River Master.