Report of the Colorado State Engineer Concerning Accounting of the Operations of an Offset Account in John Martin Reservoir for Colorado Pumping 2019

COLORADO
Department of Natural Resources

Submitted to the
Engineering and Operations Committees
Arkansas River Compact Administration

Revised December 1, 2023

December 1, 2019

Report of the Colorado State Engineer

Offset Account Operations

November 1, 2018 to October 31, 2019

An Offset Account in John Martin Reservoir was authorized by the **Resolution Concerning an Offset Account in John Martin Reservoir for Colorado Pumping** dated March 17, 1997 ("Resolution") and by the **Resolution Concerning an Offset Account in John Martin Reservoir for Colorado Pumping as Amended March 30, 1998** ("Amended Resolution").

This report summarizes the operations conducted using the Offset Account for the period November 1, 2018 through October 31, 2019 and has been prepared pursuant to paragraph 11 of the Amended Resolution.

At 0000 hours, November 1, 2018 the Offset Account contained 7674.80 acre-feet. From November 1, 2018 through October 31, 2019 there were deliveries to and transfers to the Offset Account as summarized below. There was one release from the Offset Account for delivery to Kansas during this period. The Lower Arkansas Water Management Association transferred fully consumable water to satisfy the 500 acre-feet Storage Charge prerequisite for using the account, initially concluding on March 19, 2019 and balancing the transfer to account for evaporation losses on March 31, 2019. The correspondence describing this transfer and the other deliveries is included in Section 3.

In Section 1, a monthly summary of the contents of the Offset Account is provided in Table 1. A summary of the subaccounts of the Offset Account is provided in Tables A through B.2. The outline preceding the tables in Section 1 provides an explanation of the purpose of each subaccount.

Section 2 of this report contains the daily accounting records, by month, for all subaccounts in the Offset Account.

From November 1, 2018 through October 31, 2019, there were seven deliveries/transfers of water to the Offset Account in addition to the transfer for the storage charge. The transfer and six deliveries/transfers are summarized in the following table.

Source	Delivery Start Date	Delivery End Date	Amount to Offset Account (ac-ft)	Net Consumable Water (ac-ft)	Net Return Flow Water (ac-ft)
LAWMA (CS-U Delivery)	January 22, 2019	March 19, 2019	2739.67	2739.67	0
LAWMA (Keesee Article II Transfer)	March 31, 2019	March 31, 2019	13.74	11.94	1.80
LAWMA (Sisson Article II Transfer)	June 30, 2019	June 30, 2019	780.03	500	280.03
CWPDA (Municipal Fully Consumable)	July 1, 2019	July 11, 2019	1156.26	1156.26	0
LAWMA (Fort Lyon)	November 1, 2018	October 31, 2019	3406.73	3406.73	0
LAWMA (Highland)	April 2, 2019	October 31, 2019	2502.81	2502.81	0
LAWMA (Keesee)	April 26, 2019	October 31, 2019	1813.60	1813.60	0
TOTALS			**12412.84**	**12131.01**	**281.83**

During the period referred to above, there was one release of water from the Offset Account requested by the Kansas Chief Engineer.

Offset Account water was released from July 9, 2019 through September 9, 2019 and is summarized as follows:

Summary of Release (July 9, 2019 – September 9, 2019)
(From Calculations per Offset Agreement)

Release from Kansas Storage Charge subaccount = 458.18 acre-feet

Release from Kansas Consumable Water subaccount = 0.00 acre-feet

Release from Colorado Upstream/Downstream Consumable Water subaccounts = 8967.42 acre-feet

Release from Return Flow/Return Flow Transit Loss subaccounts = 239.91 acre-feet

Total quantity released = 9665.51 acre-feet

Credit for Colorado Consumptive Use Water

0.8971 x 8967.42 (Consumptive Use Water) = 8043.78 acre-feet credit

Credits were determined using the Muskingum routing method pursuant to the Agreement Concerning the Offset Account in John Martin Reservoir for Colorado Pumping, Determination of Credits for Delivery of Water Released for Colorado Pumping, and Related Matters, September 29, 2005.

Section 3 of this report provides copies of the letters reporting each delivery of water to the Offset Account as required by paragraph 3 of the Amended Resolution and copies of the letters reporting each release of water from the Offset Account.

Section 4 of this report provides copies of the monthly letters reporting Colorado pumping and Offset Account operations that were prepared and submitted in accordance with paragraph 12 of the Amended Resolution.

At 2400 hours, October 31, 2019 the Offset Account contained 7708.32 acre-feet.

The Colorado State Engineer and the Kansas Chief Engineer have coordinated Offset Account operations successfully through their respective delegates throughout the year.

Bill W. Tyner

Bill W. Tyner for
Colorado State Engineer

December 1, 2019

Revised: January 7, 2020

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Report of the Colorado State Engineer – Offset Account Operations

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Section 2

Daily Accounting Records by Month for Offset Account and Subaccounts

Section 3

Correspondence on Deliveries to and Releases from the Offset Account

- January 22, 2019 letter to Kevin Salter regarding the Initial Notice of Offset Account Delivery for the LAWMA for CS-U consumable water from Fountain Creek.
- April 2, 2019 letter to Kevin Salter regarding the Initial Notice of Offset Account Delivery for the LAWMA Storage Charge to the Kansas Subaccount.
- April 4, 2019 letter to Kevin Salter regarding the Initial Notice of Offset Account Delivery for the Highland Canal consumable water.
- April 4, 2019 letter to Kevin Salter regarding Initial Notice of Offset Account Delivery for the Fort Lyon Canal consumable water.
- April 4, 2019 letter to Kevin Salter regarding Initial Notice of Offset Account Transfer for LAWMA Section II (Keesee) water.
- June 28, 2019 letter to Kevin Salter regarding Initial Notice of Offset Account Delivery for LAWMA Section II (Sisson) water.
- June 28, 2019 letter to Kevin Salter regarding Initial Notice of Offset Account Delivery for the CWPDA delivery of consumable water from Lake Meredith.
- July 10, 2019 letter to David Barfield regarding the summary of water delivered or transferred by LAWMA consisting of delivery of consumable CS-U water from Municipal CU Return flows from Fountain Creek to the Downstream consumable account and transfers to the Consumable Downstream subaccount, the Kansas Charge subaccount, Return Flow subaccount and Transit Loss subaccount.
- August 6, 2019 letter to David Barfield regarding the summary of water delivered by CWPDA to the Offset Account.
- January 20, 2020 revised version of the October 30, 2019 letter to David Barfield regarding the summary of water released from the Offset Account for delivery to the Stateline as called for by the Kansas Chief Engineer.

- October 30, 2019 letter to David Barfield regarding the summary of water released from the Offset Account for delivery to the Stateline as called for by the Kansas Chief Engineer.
- November 27, 2019 letter to David Barfield regarding accounting summary for delivery of LAWMA's Fort Lyon Canal consumptive use water to the Offset Account for April – October 2019
- November 27, 2019 letter to David Barfield regarding accounting summary for delivery of LAWMA's Keesee Ditch consumptive use water to the Offset Account for April – October 2019.
- November 27, 2019 letter to David Barfield regarding accounting summary for delivery of LAWMA's Highland Canal consumptive use water to the Offset Account for April – October 2019.

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- March 15, 2019 letter to David Barfield and Stephanie Gonzales- November 2018 Report
- March 15, 2018 letter to David Barfield and Stephanie Gonzales- December 2018 Report
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Section 1

JOHN MARTIN RESERVOIR
OFFSET ACCOUNT

TABLE 1
OFFSET ACCOUNT TOTALS

WATER YEAR	CONTENTS	PHYSICAL	ACCOUNT	ACCOUNT		ACCOUNT	ACCOUNT	PHYSICAL	CONTENTS
2019	BEGINNING OF	INFLOW	TRANSFER-IN	TRANSFER-IN	EVAPORATION	TRANSFER-OUT	TRANSFER-OUT	RELEASE	END OF
			(Non-Offset)	(Internal-Offset)		(Internal-Offset)			
MONTH	MONTH A.F.	A.F.	A.F.	A.F.	A.F.	A.F.	A.F.	A.F.	MONTH A.F.
NOVEMBER	7679.93	38.43		0.00	66.28	0.00			7652.08
DECEMBER	7652.08				53.95				7598.13
JANUARY	7598.13	321.96			45.93				7874.16
FEBRUARY	7874.16	1450.10			82.51				9241.75
MARCH	9241.75	1035.23	13.74		142.68		93.07		10054.97
APRIL	10054.97	638.20	0.00		221.61				10471.56
MAY	10471.56	1416.41			254.16				11633.81
JUNE	11633.81	1964.18	780.03		412.40				13965.62
JULY	13965.62	2712.19			522.78			4562.05	11592.98
AUGUST	11592.98	1051.07			346.26			4210.84	8086.95
SEPTEMBER	8086.95	584.10			297.33			892.62	7481.10
OCTOBER	7481.10	407.19			179.97				7708.32
TOTALS		11619.06	793.77	0.00	2625.86	0.00	93.07	9665.51	

JOHN MARTIN RESERVOIR
OFFSET ACCOUNT

TABLE A
CONSUMABLE WATER

WATER YEAR 2019	CONTENTS BEGINNING OF MONTH A.F.	PHYSICAL INFLOW A.F.	ACCOUNT TRANSFER-IN A.F.	EVAPORATION A.F.	ACCOUNT TRANSFER-OUT A.F.	PHYSICAL RELEASE A.F.	CONTENTS END OF MONTH A.F.
NOVEMBER	7648.97	38.43		65.98			7621.42
DECEMBER	7621.42			53.64			7567.78
JANUARY	7567.78	321.96		45.65			7844.09
FEBRUARY	7844.09	1450.10		82.22			9211.97
MARCH	9211.97	1035.23	11.94	142.18	93.07		10023.89
APRIL	10023.89	638.20		221.00			10441.09
MAY	10441.09	1416.41		253.51			11603.99
JUNE	11603.99	1964.18	500.00	411.46			13656.71
JULY	13656.71	2712.19		517.49		4322.14	11529.27
AUGUST	11529.27	1051.07		344.02		4210.84	8025.48
SEPTEMBER	8025.48	584.10		294.91		892.62	7422.05
OCTOBER	7422.05	407.19		178.56			7650.68
TOTALS		11619.06	511.94	2610.62	93.07	9425.60	

TABLE B
RETURN FLOW WATER WITH TRANSIT LOSS

WATER YEAR 2019 MONTH	CONTENTS BEGINNING OF MONTH A.F.	PHYSICAL INFLOW A.F.	ACCOUNT TRANSFER-IN A.F.	EVAPORATION A.F.	ACCOUNT TRANSFER-OUT A.F.	PHYSICAL RELEASE A.F.	CONTENTS END OF MONTH A.F.
NOVEMBER	30.96			0.30			30.66
DECEMBER	30.66			0.31			30.35
JANUARY	30.35			0.28			30.07
FEBRUARY	30.07			0.29			29.78
MARCH	29.78		1.80	0.50			31.08
APRIL	31.08			0.61			30.47
MAY	30.47			0.65			29.82
JUNE	29.82		280.03	0.94			308.91
JULY	308.91			5.29		239.91	63.71
AUGUST	63.71			2.24			61.47
SEPTEMBER	61.47			2.42			59.05
OCTOBER	59.05			1.41			57.64
TOTALS		0.00	281.83	15.24	0.00	239.91	

JOHN MARTIN RESERVOIR
OFFSET ACCOUNT

TABLE A.1
CONSUMABLE WATER
COLORADO UPSTREAM

WATER YEAR 2019	CONTENTS BEGINNING OF MONTH A.F.	PHYSICAL INFLOW A.F.	ACCOUNT TRANSFER-IN A.F.	EVAPORATION A.F.	ACCOUNT TRANSFER-OUT A.F.	PHYSICAL RELEASE A.F.	CONTENTS END OF MONTH A.F.
NOVEMBER	1485.04			12.77			1472.27
DECEMBER	1472.27			10.37			1461.90
JANUARY	1461.90			8.81			1453.09
FEBRUARY	1453.09	102.17		14.39			1540.87
MARCH	1540.87			21.65	93.07		1426.15
APRIL	1426.15	12.61		30.52			1408.24
MAY	1408.24			32.05			1376.19
JUNE	1376.19			44.90			1331.29
JULY	1331.29	1156.26		87.13			2400.42
AUGUST	2400.42			84.02			2316.40
SEPTEMBER	2316.40			90.35			2226.05
OCTOBER	2226.05			52.16			2173.89
TOTALS		1271.04	0.00	489.12	93.07	0.00	

TABLE A.2.
CONSUMABLE WATER
COLORADO DOWNSTREAM

WATER YEAR 2019 MONTH	CONTENTS BEGINNING OF MONTH A.F.	PHYSICAL INFLOW A.F.	ACCOUNT TRANSFER-IN A.F.	EVAPORATION A.F.	ACCOUNT TRANSFER-OUT A.F.	PHYSICAL RELEASE A.F.	CONTENTS END OF MONTH A.F.
NOVEMBER	6163.93	38.43		53.21			6149.15
DECEMBER	6149.15			43.27			6105.88
JANUARY	6105.88			36.66			6069.22
FEBRUARY	6069.22	1169.89		63.16			7175.95
MARCH	7175.95	1035.23		113.44			8097.74
APRIL	8097.74	625.59		179.81			8543.52
MAY	8543.52	1416.41		210.29			9749.64
JUNE	9749.64	1964.18	500.00	350.93			11862.89
JULY	11862.89	1555.93		426.01		3863.96	9128.85
AUGUST	9128.85	1051.07		260.00		4210.84	5709.08
SEPTEMBER	5709.08	584.10		204.56		892.62	5196.00
OCTOBER	5196.00	407.19		126.40			5476.79
TOTALS		9848.02	500.00	2067.74	0.00	8967.42	

JOHN MARTIN RESERVOIR
OFFSET ACCOUNT

TABLE A.3
KANSAS CONSUMABLE

WATER YEAR 2019	CONTENTS BEGINNING OF MONTH	PHYSICAL INFLOW	ACCOUNT TRANSFER-IN Consumptive	EVAPORATION	ACCOUNT TRANSFER-OUT Consumptive	PHYSICAL RELEASE	CONTENTS END OF
MONTH	A.F.	A.F.	A.F.	A.F.	A.F.	A.F.	MONTH A.F.
NOVEMBER	0.00			0.00			0.00
DECEMBER	0.00			0.00			0.00
JANUARY	0.00			0.00			0.00
FEBRUARY	0.00			0.00			0.00
MARCH*	0.00			0.00			0.00
APRIL	0.00			0.00			0.00
MAY	0.00			0.00			0.00
JUNE	0.00			0.00			0.00
JULY	0.00			0.00			0.00
AUGUST	0.00			0.00			0.00
SEPTEMBER	0.00			0.00			0.00
OCTOBER	0.00			0.00			0.00
TOTALS		0.00	0.00	0.00	0.00	0.00	

TABLE A.4.
CONSUMABLE WATER
KANSAS STORAGE CHARGE

WATER YEAR 2019	CONTENTS BEGINNING OF	PHYSICAL INFLOW	ACCOUNT TRANSFER-IN Consumptive	EVAPORATION	ACCOUNT TRANSFER-OUT Consumptive	PHYSICAL RELEASE	CONTENTS END OF
MONTH	MONTH A.F.	A.F.	A.F.	A.F.	A.F.	A.F.	MONTH A.F.
NOVEMBER	0.00			0.00			0.00
DECEMBER	0.00			0.00			0.00
JANUARY	0.00	321.96		0.18			321.78
FEBRUARY	321.78	178.04		4.67			495.15
MARCH	495.15		11.94	7.09			500.00
APRIL	500.00			10.67			489.33
MAY	489.33			11.17			478.16
JUNE	478.16			15.63			462.53
JULY	462.53			4.35		458.18	0.00
AUGUST	0.00			0.00			0.00
SEPTEMBER	0.00			0.00			0.00
OCTOBER	0.00			0.00			0.00
TOTALS		500.00	11.94	53.76	0.00	458.18	

JOHN MARTIN RESERVOIR
OFFSET ACCOUNT

TABLE B.1
RETURN FLOW

WATER YEAR 2019	CONTENTS BEGINNING OF MONTH A.F.	PHYSICAL INFLOW A.F.	ACCOUNT TRANSFER-IN A.F.	EVAPORATION A.F.	ACCOUNT TRANSFER-OUT A.F.	PHYSICAL RELEASE A.F.	CONTENTS END OF MONTH A.F.
NOVEMBER	30.96			0.30			30.66
DECEMBER	30.66			0.31			30.35
JANUARY	30.35			0.28			30.07
FEBRUARY	30.07			0.29			29.78
MARCH	29.78		1.80	0.50			31.08
APRIL	31.08			0.61			30.47
MAY	30.47			0.65			29.82
JUNE	29.82		280.03	0.94			308.91
JULY	308.91			5.29		239.91	63.71
AUGUST	63.71			2.24			61.47
SEPTEMBER	61.47			2.42			59.05
OCTOBER	59.05			1.41			57.64
TOTALS		0.00	281.83	15.24	0.00	239.91	

TABLE B.2
RETURN FLOW
TRANSIT LOSS

WATER YEAR 2019 MONTH	CONTENTS BEGINNING OF MONTH A.F.	PHYSICAL INFLOW A.F.	ACCOUNT TRANSFER-IN A.F.	EVAPORATION A.F.	ACCOUNT TRANSFER-OUT A.F.	PHYSICAL RELEASE A.F.	CONTENTS END OF MONTH A.F.
NOVEMBER	30.96			0.30			30.66
DECEMBER	30.66			0.31			30.35
JANUARY	30.35			0.28			30.07
FEBRUARY	30.07			0.29			29.78
MARCH	29.78		0.09	0.50			29.37
APRIL	29.37			0.61			28.76
MAY	28.76			0.65			28.11
JUNE	28.11		39.00	0.94			66.17
JULY	66.17			2.46			63.71
AUGUST	63.71			2.24			61.47
SEPTEMBER	61.47			2.42			59.05
OCTOBER	59.05			1.41			57.64
TOTALS		0.00	39.09	12.41	0.00	0.00	

Section 2

OffsetAccount-Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						7679.93
1	0.00	0.00	0.00	0.00	5.13	7674.80
2	0.00	0.00	0.00	0.00	2.68	7672.12
3	0.00	0.00	0.00	0.00	2.68	7669.44
4	0.00	0.00	0.00	0.00	2.89	7666.55
5	0.00	0.00	0.00	0.00	2.23	7664.32
6	0.00	0.00	0.00	0.00	0.88	7663.44
7	2.66	0.00	0.00	0.00	2.23	7663.87
8	3.84	0.00	0.00	0.00	3.56	7664.15
9	6.29	0.00	0.00	0.00	2.01	7668.43
10	16.42	0.00	0.00	0.00	2.01	7682.84
11	9.22	0.00	0.00	0.00	2.01	7690.05
12	0.00	0.00	0.00	0.00	2.01	7688.04
13	0.00	0.00	0.00	0.00	2.01	7686.03
14	0.00	0.00	0.00	0.00	2.01	7684.02
15	0.00	0.00	0.00	0.00	2.01	7682.01
16	0.00	0.00	0.00	0.00	2.01	7680.00
17	0.00	0.00	0.00	0.00	2.01	7677.99
18	0.00	0.00	0.00	0.00	2.01	7675.98
19	0.00	0.00	0.00	0.00	2.00	7673.98
20	0.00	0.00	0.00	0.00	2.00	7671.98
21	0.00	0.00	0.00	0.00	2.00	7669.98
22	0.00	0.00	0.00	0.00	1.99	7667.99
23	0.00	0.00	0.00	0.00	1.99	7666.00
24	0.00	0.00	0.00	0.00	1.99	7664.01
25	0.00	0.00	0.00	0.00	1.99	7662.02
26	0.00	0.00	0.00	0.00	1.99	7660.03
27	0.00	0.00	0.00	0.00	1.99	7658.04
28	0.00	0.00	0.00	0.00	1.99	7656.05
29	0.00	0.00	0.00	0.00	1.99	7654.06
30	0.00	0.00	0.00	0.00	1.98	7652.08
	38.43	0.00	0.00	0.00	66.28	

OffsetAccount-Consumable Upstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						1485.04
1	0.00	0.00	0.00	0.00	0.99	1484.05
2	0.00	0.00	0.00	0.00	0.52	1483.53
3	0.00	0.00	0.00	0.00	0.52	1483.01
4	0.00	0.00	0.00	0.00	0.56	1482.45
5	0.00	0.00	0.00	0.00	0.43	1482.02
6	0.00	0.00	0.00	0.00	0.17	1481.85
7	0.00	0.00	0.00	0.00	0.43	1481.42
8	0.00	0.00	0.00	0.00	0.69	1480.73
9	0.00	0.00	0.00	0.00	0.39	1480.34
10	0.00	0.00	0.00	0.00	0.39	1479.95
11	0.00	0.00	0.00	0.00	0.39	1479.56
12	0.00	0.00	0.00	0.00	0.39	1479.17
13	0.00	0.00	0.00	0.00	0.39	1478.78
14	0.00	0.00	0.00	0.00	0.39	1478.39
15	0.00	0.00	0.00	0.00	0.39	1478.00
16	0.00	0.00	0.00	0.00	0.39	1477.61
17	0.00	0.00	0.00	0.00	0.39	1477.22
18	0.00	0.00	0.00	0.00	0.39	1476.83
19	0.00	0.00	0.00	0.00	0.38	1476.45
20	0.00	0.00	0.00	0.00	0.38	1476.07
21	0.00	0.00	0.00	0.00	0.38	1475.69
22	0.00	0.00	0.00	0.00	0.38	1475.31
23	0.00	0.00	0.00	0.00	0.38	1474.93
24	0.00	0.00	0.00	0.00	0.38	1474.55
25	0.00	0.00	0.00	0.00	0.38	1474.17
26	0.00	0.00	0.00	0.00	0.38	1473.79
27	0.00	0.00	0.00	0.00	0.38	1473.41
28	0.00	0.00	0.00	0.00	0.38	1473.03
29	0.00	0.00	0.00	0.00	0.38	1472.65
30	0.00	0.00	0.00	0.00	0.38	1472.27
	0.00	0.00	0.00	0.00	12.77	

OffsetAccount-Consumable Kansas

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-Consumable Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						7648.97
1	0.00	0.00	0.00	0.00	5.11	7643.86
2	0.00	0.00	0.00	0.00	2.67	7641.19
3	0.00	0.00	0.00	0.00	2.67	7638.52
4	0.00	0.00	0.00	0.00	2.88	7635.64
5	0.00	0.00	0.00	0.00	2.22	7633.42
6	0.00	0.00	0.00	0.00	0.88	7632.54
7	2.66	0.00	0.00	0.00	2.22	7632.98
8	3.84	0.00	0.00	0.00	3.55	7633.27
9	6.29	0.00	0.00	0.00	2.00	7637.56
10	16.42	0.00	0.00	0.00	2.00	7651.98
11	9.22	0.00	0.00	0.00	2.00	7659.20
12	0.00	0.00	0.00	0.00	2.00	7657.20
13	0.00	0.00	0.00	0.00	2.00	7655.20
14	0.00	0.00	0.00	0.00	2.00	7653.20
15	0.00	0.00	0.00	0.00	2.00	7651.20
16	0.00	0.00	0.00	0.00	2.00	7649.20
17	0.00	0.00	0.00	0.00	2.00	7647.20
18	0.00	0.00	0.00	0.00	2.00	7645.20
19	0.00	0.00	0.00	0.00	1.99	7643.21
20	0.00	0.00	0.00	0.00	1.99	7641.22
21	0.00	0.00	0.00	0.00	1.99	7639.23
22	0.00	0.00	0.00	0.00	1.98	7637.25
23	0.00	0.00	0.00	0.00	1.98	7635.27
24	0.00	0.00	0.00	0.00	1.98	7633.29
25	0.00	0.00	0.00	0.00	1.98	7631.31
26	0.00	0.00	0.00	0.00	1.98	7629.33
27	0.00	0.00	0.00	0.00	1.98	7627.35
28	0.00	0.00	0.00	0.00	1.98	7625.37
29	0.00	0.00	0.00	0.00	1.98	7623.39
30	0.00	0.00	0.00	0.00	1.97	7621.42
	38.43	0.00	0.00	0.00	65.98	

OffsetAccount-Consumable Downstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						6163.93
1	0.00	0.00	0.00	0.00	4.12	6159.81
2	0.00	0.00	0.00	0.00	2.15	6157.66
3	0.00	0.00	0.00	0.00	2.15	6155.51
4	0.00	0.00	0.00	0.00	2.32	6153.19
5	0.00	0.00	0.00	0.00	1.79	6151.40
6	0.00	0.00	0.00	0.00	0.71	6150.69
7	2.66	0.00	0.00	0.00	1.79	6151.56
8	3.84	0.00	0.00	0.00	2.86	6152.54
9	6.29	0.00	0.00	0.00	1.61	6157.22
10	16.42	0.00	0.00	0.00	1.61	6172.03
11	9.22	0.00	0.00	0.00	1.61	6179.64
12	0.00	0.00	0.00	0.00	1.61	6178.03
13	0.00	0.00	0.00	0.00	1.61	6176.42
14	0.00	0.00	0.00	0.00	1.61	6174.81
15	0.00	0.00	0.00	0.00	1.61	6173.20
16	0.00	0.00	0.00	0.00	1.61	6171.59
17	0.00	0.00	0.00	0.00	1.61	6169.98
18	0.00	0.00	0.00	0.00	1.61	6168.37
19	0.00	0.00	0.00	0.00	1.61	6166.76
20	0.00	0.00	0.00	0.00	1.61	6165.15
21	0.00	0.00	0.00	0.00	1.61	6163.54
22	0.00	0.00	0.00	0.00	1.60	6161.94
23	0.00	0.00	0.00	0.00	1.60	6160.34
24	0.00	0.00	0.00	0.00	1.60	6158.74
25	0.00	0.00	0.00	0.00	1.60	6157.14
26	0.00	0.00	0.00	0.00	1.60	6155.54
27	0.00	0.00	0.00	0.00	1.60	6153.94
28	0.00	0.00	0.00	0.00	1.60	6152.34
29	0.00	0.00	0.00	0.00	1.60	6150.74
30	0.00	0.00	0.00	0.00	1.59	6149.15
	38.43	0.00	0.00	0.00	53.21	

OffsetAccount-Consumable Kansas Charge

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-ReturnFlow

Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						30.96
1	0.00	0.00	0.00	0.00	0.02	30.94
2	0.00	0.00	0.00	0.00	0.01	30.93
3	0.00	0.00	0.00	0.00	0.01	30.92
4	0.00	0.00	0.00	0.00	0.01	30.91
5	0.00	0.00	0.00	0.00	0.01	30.90
6	0.00	0.00	0.00	0.00	0.00	30.90
7	0.00	0.00	0.00	0.00	0.01	30.89
8	0.00	0.00	0.00	0.00	0.01	30.88
9	0.00	0.00	0.00	0.00	0.01	30.87
10	0.00	0.00	0.00	0.00	0.01	30.86
11	0.00	0.00	0.00	0.00	0.01	30.85
12	0.00	0.00	0.00	0.00	0.01	30.84
13	0.00	0.00	0.00	0.00	0.01	30.83
14	0.00	0.00	0.00	0.00	0.01	30.82
15	0.00	0.00	0.00	0.00	0.01	30.81
16	0.00	0.00	0.00	0.00	0.01	30.80
17	0.00	0.00	0.00	0.00	0.01	30.79
18	0.00	0.00	0.00	0.00	0.01	30.78
19	0.00	0.00	0.00	0.00	0.01	30.77
20	0.00	0.00	0.00	0.00	0.01	30.76
21	0.00	0.00	0.00	0.00	0.01	30.75
22	0.00	0.00	0.00	0.00	0.01	30.74
23	0.00	0.00	0.00	0.00	0.01	30.73
24	0.00	0.00	0.00	0.00	0.01	30.72
25	0.00	0.00	0.00	0.00	0.01	30.71
26	0.00	0.00	0.00	0.00	0.01	30.70
27	0.00	0.00	0.00	0.00	0.01	30.69
28	0.00	0.00	0.00	0.00	0.01	30.68
29	0.00	0.00	0.00	0.00	0.01	30.67
30	0.00	0.00	0.00	0.00	0.01	30.66
	0.00	0.00	0.00	0.00	0.30	

OffsetAccount-ReturnFlow

RF Transit Loss

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						30.96
1	0.00	0.00	0.00	0.00	0.02	30.94
2	0.00	0.00	0.00	0.00	0.01	30.93
3	0.00	0.00	0.00	0.00	0.01	30.92
4	0.00	0.00	0.00	0.00	0.01	30.91
5	0.00	0.00	0.00	0.00	0.01	30.90
6	0.00	0.00	0.00	0.00	0.00	30.90
7	0.00	0.00	0.00	0.00	0.01	30.89
8	0.00	0.00	0.00	0.00	0.01	30.88
9	0.00	0.00	0.00	0.00	0.01	30.87
10	0.00	0.00	0.00	0.00	0.01	30.86
11	0.00	0.00	0.00	0.00	0.01	30.85
12	0.00	0.00	0.00	0.00	0.01	30.84
13	0.00	0.00	0.00	0.00	0.01	30.83
14	0.00	0.00	0.00	0.00	0.01	30.82
15	0.00	0.00	0.00	0.00	0.01	30.81
16	0.00	0.00	0.00	0.00	0.01	30.80
17	0.00	0.00	0.00	0.00	0.01	30.79
18	0.00	0.00	0.00	0.00	0.01	30.78
19	0.00	0.00	0.00	0.00	0.01	30.77
20	0.00	0.00	0.00	0.00	0.01	30.76
21	0.00	0.00	0.00	0.00	0.01	30.75
22	0.00	0.00	0.00	0.00	0.01	30.74
23	0.00	0.00	0.00	0.00	0.01	30.73
24	0.00	0.00	0.00	0.00	0.01	30.72
25	0.00	0.00	0.00	0.00	0.01	30.71
26	0.00	0.00	0.00	0.00	0.01	30.70
27	0.00	0.00	0.00	0.00	0.01	30.69
28	0.00	0.00	0.00	0.00	0.01	30.68
29	0.00	0.00	0.00	0.00	0.01	30.67
30	0.00	0.00	0.00	0.00	0.01	30.66
	0.00	0.00	0.00	0.00	0.30	

OffsetAccount-ReturnFlow

Return Flow

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						7652.08
1	0.00	0.00	0.00	0.00	1.77	7650.31
2	0.00	0.00	0.00	0.00	1.76	7648.55
3	0.00	0.00	0.00	0.00	1.76	7646.79
4	0.00	0.00	0.00	0.00	1.76	7645.03
5	0.00	0.00	0.00	0.00	1.76	7643.27
6	0.00	0.00	0.00	0.00	1.76	7641.51
7	0.00	0.00	0.00	0.00	1.76	7639.75
8	0.00	0.00	0.00	0.00	1.76	7637.99
9	0.00	0.00	0.00	0.00	1.76	7636.23
10	0.00	0.00	0.00	0.00	1.76	7634.47
11	0.00	0.00	0.00	0.00	1.75	7632.72
12	0.00	0.00	0.00	0.00	1.75	7630.97
13	0.00	0.00	0.00	0.00	1.75	7629.22
14	0.00	0.00	0.00	0.00	1.75	7627.47
15	0.00	0.00	0.00	0.00	1.74	7625.73
16	0.00	0.00	0.00	0.00	1.74	7623.99
17	0.00	0.00	0.00	0.00	1.74	7622.25
18	0.00	0.00	0.00	0.00	1.73	7620.52
19	0.00	0.00	0.00	0.00	1.73	7618.79
20	0.00	0.00	0.00	0.00	1.73	7617.06
21	0.00	0.00	0.00	0.00	1.73	7615.33
22	0.00	0.00	0.00	0.00	1.73	7613.60
23	0.00	0.00	0.00	0.00	1.73	7611.87
24	0.00	0.00	0.00	0.00	1.72	7610.15
25	0.00	0.00	0.00	0.00	1.72	7608.43
26	0.00	0.00	0.00	0.00	1.72	7606.71
27	0.00	0.00	0.00	0.00	1.72	7604.99
28	0.00	0.00	0.00	0.00	1.72	7603.27
29	0.00	0.00	0.00	0.00	1.72	7601.55
30	0.00	0.00	0.00	0.00	1.71	7599.84
31	0.00	0.00	0.00	0.00	1.71	7598.13
	0.00	0.00	0.00	0.00	53.95	

OffsetAccount-Consumable Upstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						1472.27
1	0.00	0.00	0.00	0.00	0.34	1471.93
2	0.00	0.00	0.00	0.00	0.34	1471.59
3	0.00	0.00	0.00	0.00	0.34	1471.25
4	0.00	0.00	0.00	0.00	0.34	1470.91
5	0.00	0.00	0.00	0.00	0.34	1470.57
6	0.00	0.00	0.00	0.00	0.34	1470.23
7	0.00	0.00	0.00	0.00	0.34	1469.89
8	0.00	0.00	0.00	0.00	0.34	1469.55
9	0.00	0.00	0.00	0.00	0.34	1469.21
10	0.00	0.00	0.00	0.00	0.34	1468.87
11	0.00	0.00	0.00	0.00	0.34	1468.53
12	0.00	0.00	0.00	0.00	0.34	1468.19
13	0.00	0.00	0.00	0.00	0.34	1467.85
14	0.00	0.00	0.00	0.00	0.34	1467.51
15	0.00	0.00	0.00	0.00	0.33	1467.18
16	0.00	0.00	0.00	0.00	0.33	1466.85
17	0.00	0.00	0.00	0.00	0.33	1466.52
18	0.00	0.00	0.00	0.00	0.33	1466.19
19	0.00	0.00	0.00	0.00	0.33	1465.86
20	0.00	0.00	0.00	0.00	0.33	1465.53
21	0.00	0.00	0.00	0.00	0.33	1465.20
22	0.00	0.00	0.00	0.00	0.33	1464.87
23	0.00	0.00	0.00	0.00	0.33	1464.54
24	0.00	0.00	0.00	0.00	0.33	1464.21
25	0.00	0.00	0.00	0.00	0.33	1463.88
26	0.00	0.00	0.00	0.00	0.33	1463.55
27	0.00	0.00	0.00	0.00	0.33	1463.22
28	0.00	0.00	0.00	0.00	0.33	1462.89
29	0.00	0.00	0.00	0.00	0.33	1462.56
30	0.00	0.00	0.00	0.00	0.33	1462.23
31	0.00	0.00	0.00	0.00	0.33	1461.90
	0.00	0.00	0.00	0.00	10.37	

OffsetAccount-Consumable Kansas

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-Consumable Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						7621.42
1	0.00	0.00	0.00	0.00	1.76	7619.66
2	0.00	0.00	0.00	0.00	1.75	7617.91
3	0.00	0.00	0.00	0.00	1.75	7616.16
4	0.00	0.00	0.00	0.00	1.75	7614.41
5	0.00	0.00	0.00	0.00	1.75	7612.66
6	0.00	0.00	0.00	0.00	1.75	7610.91
7	0.00	0.00	0.00	0.00	1.75	7609.16
8	0.00	0.00	0.00	0.00	1.75	7607.41
9	0.00	0.00	0.00	0.00	1.75	7605.66
10	0.00	0.00	0.00	0.00	1.75	7603.91
11	0.00	0.00	0.00	0.00	1.74	7602.17
12	0.00	0.00	0.00	0.00	1.74	7600.43
13	0.00	0.00	0.00	0.00	1.74	7598.69
14	0.00	0.00	0.00	0.00	1.74	7596.95
15	0.00	0.00	0.00	0.00	1.73	7595.22
16	0.00	0.00	0.00	0.00	1.73	7593.49
17	0.00	0.00	0.00	0.00	1.73	7591.76
18	0.00	0.00	0.00	0.00	1.72	7590.04
19	0.00	0.00	0.00	0.00	1.72	7588.32
20	0.00	0.00	0.00	0.00	1.72	7586.60
21	0.00	0.00	0.00	0.00	1.72	7584.88
22	0.00	0.00	0.00	0.00	1.72	7583.16
23	0.00	0.00	0.00	0.00	1.72	7581.44
24	0.00	0.00	0.00	0.00	1.71	7579.73
25	0.00	0.00	0.00	0.00	1.71	7578.02
26	0.00	0.00	0.00	0.00	1.71	7576.31
27	0.00	0.00	0.00	0.00	1.71	7574.60
28	0.00	0.00	0.00	0.00	1.71	7572.89
29	0.00	0.00	0.00	0.00	1.71	7571.18
30	0.00	0.00	0.00	0.00	1.70	7569.48
31	0.00	0.00	0.00	0.00	1.70	7567.78
	0.00	0.00	0.00	0.00	53.64	

OffsetAccount-Consumable Downstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						6149.15
1	0.00	0.00	0.00	0.00	1.42	6147.73
2	0.00	0.00	0.00	0.00	1.41	6146.32
3	0.00	0.00	0.00	0.00	1.41	6144.91
4	0.00	0.00	0.00	0.00	1.41	6143.50
5	0.00	0.00	0.00	0.00	1.41	6142.09
6	0.00	0.00	0.00	0.00	1.41	6140.68
7	0.00	0.00	0.00	0.00	1.41	6139.27
8	0.00	0.00	0.00	0.00	1.41	6137.86
9	0.00	0.00	0.00	0.00	1.41	6136.45
10	0.00	0.00	0.00	0.00	1.41	6135.04
11	0.00	0.00	0.00	0.00	1.40	6133.64
12	0.00	0.00	0.00	0.00	1.40	6132.24
13	0.00	0.00	0.00	0.00	1.40	6130.84
14	0.00	0.00	0.00	0.00	1.40	6129.44
15	0.00	0.00	0.00	0.00	1.40	6128.04
16	0.00	0.00	0.00	0.00	1.40	6126.64
17	0.00	0.00	0.00	0.00	1.40	6125.24
18	0.00	0.00	0.00	0.00	1.39	6123.85
19	0.00	0.00	0.00	0.00	1.39	6122.46
20	0.00	0.00	0.00	0.00	1.39	6121.07
21	0.00	0.00	0.00	0.00	1.39	6119.68
22	0.00	0.00	0.00	0.00	1.39	6118.29
23	0.00	0.00	0.00	0.00	1.39	6116.90
24	0.00	0.00	0.00	0.00	1.38	6115.52
25	0.00	0.00	0.00	0.00	1.38	6114.14
26	0.00	0.00	0.00	0.00	1.38	6112.76
27	0.00	0.00	0.00	0.00	1.38	6111.38
28	0.00	0.00	0.00	0.00	1.38	6110.00
29	0.00	0.00	0.00	0.00	1.38	6108.62
30	0.00	0.00	0.00	0.00	1.37	6107.25
31	0.00	0.00	0.00	0.00	1.37	6105.88
	0.00	0.00	0.00	0.00	43.27	

OffsetAccount-Consumable Kansas Charge

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-ReturnFlow

Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						30.66
1	0.00	0.00	0.00	0.00	0.01	30.65
2	0.00	0.00	0.00	0.00	0.01	30.64
3	0.00	0.00	0.00	0.00	0.01	30.63
4	0.00	0.00	0.00	0.00	0.01	30.62
5	0.00	0.00	0.00	0.00	0.01	30.61
6	0.00	0.00	0.00	0.00	0.01	30.60
7	0.00	0.00	0.00	0.00	0.01	30.59
8	0.00	0.00	0.00	0.00	0.01	30.58
9	0.00	0.00	0.00	0.00	0.01	30.57
10	0.00	0.00	0.00	0.00	0.01	30.56
11	0.00	0.00	0.00	0.00	0.01	30.55
12	0.00	0.00	0.00	0.00	0.01	30.54
13	0.00	0.00	0.00	0.00	0.01	30.53
14	0.00	0.00	0.00	0.00	0.01	30.52
15	0.00	0.00	0.00	0.00	0.01	30.51
16	0.00	0.00	0.00	0.00	0.01	30.50
17	0.00	0.00	0.00	0.00	0.01	30.49
18	0.00	0.00	0.00	0.00	0.01	30.48
19	0.00	0.00	0.00	0.00	0.01	30.47
20	0.00	0.00	0.00	0.00	0.01	30.46
21	0.00	0.00	0.00	0.00	0.01	30.45
22	0.00	0.00	0.00	0.00	0.01	30.44
23	0.00	0.00	0.00	0.00	0.01	30.43
24	0.00	0.00	0.00	0.00	0.01	30.42
25	0.00	0.00	0.00	0.00	0.01	30.41
26	0.00	0.00	0.00	0.00	0.01	30.40
27	0.00	0.00	0.00	0.00	0.01	30.39
28	0.00	0.00	0.00	0.00	0.01	30.38
29	0.00	0.00	0.00	0.00	0.01	30.37
30	0.00	0.00	0.00	0.00	0.01	30.36
31	0.00	0.00	0.00	0.00	0.01	30.35
	0.00	0.00	0.00	0.00	0.31	

OffsetAccount-ReturnFlow

RF Transit Loss

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						30.66
1	0.00	0.00	0.00	0.00	0.01	30.65
2	0.00	0.00	0.00	0.00	0.01	30.64
3	0.00	0.00	0.00	0.00	0.01	30.63
4	0.00	0.00	0.00	0.00	0.01	30.62
5	0.00	0.00	0.00	0.00	0.01	30.61
6	0.00	0.00	0.00	0.00	0.01	30.60
7	0.00	0.00	0.00	0.00	0.01	30.59
8	0.00	0.00	0.00	0.00	0.01	30.58
9	0.00	0.00	0.00	0.00	0.01	30.57
10	0.00	0.00	0.00	0.00	0.01	30.56
11	0.00	0.00	0.00	0.00	0.01	30.55
12	0.00	0.00	0.00	0.00	0.01	30.54
13	0.00	0.00	0.00	0.00	0.01	30.53
14	0.00	0.00	0.00	0.00	0.01	30.52
15	0.00	0.00	0.00	0.00	0.01	30.51
16	0.00	0.00	0.00	0.00	0.01	30.50
17	0.00	0.00	0.00	0.00	0.01	30.49
18	0.00	0.00	0.00	0.00	0.01	30.48
19	0.00	0.00	0.00	0.00	0.01	30.47
20	0.00	0.00	0.00	0.00	0.01	30.46
21	0.00	0.00	0.00	0.00	0.01	30.45
22	0.00	0.00	0.00	0.00	0.01	30.44
23	0.00	0.00	0.00	0.00	0.01	30.43
24	0.00	0.00	0.00	0.00	0.01	30.42
25	0.00	0.00	0.00	0.00	0.01	30.41
26	0.00	0.00	0.00	0.00	0.01	30.40
27	0.00	0.00	0.00	0.00	0.01	30.39
28	0.00	0.00	0.00	0.00	0.01	30.38
29	0.00	0.00	0.00	0.00	0.01	30.37
30	0.00	0.00	0.00	0.00	0.01	30.36
31	0.00	0.00	0.00	0.00	0.01	30.35
	0.00	0.00	0.00	0.00	0.31	

OffsetAccount-ReturnFlow

Return Flow

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						7598.13
1	0.00	0.00	0.00	0.00	0.17	7597.96
2	0.00	0.00	0.00	0.00	0.17	7597.79
3	0.00	0.00	0.00	0.00	0.51	7597.28
4	0.00	0.00	0.00	0.00	1.36	7595.92
5	0.00	0.00	0.00	0.00	1.36	7594.56
6	0.00	0.00	0.00	0.00	1.36	7593.20
7	0.00	0.00	0.00	0.00	1.53	7591.67
8	0.00	0.00	0.00	0.00	1.61	7590.06
9	0.00	0.00	0.00	0.00	1.45	7588.61
10	0.00	0.00	0.00	0.00	1.44	7587.17
11	0.00	0.00	0.00	0.00	1.61	7585.56
12	0.00	0.00	0.00	0.00	1.60	7583.96
13	0.00	0.00	0.00	0.00	1.60	7582.36
14	0.00	0.00	0.00	0.00	1.60	7580.76
15	0.00	0.00	0.00	0.00	1.60	7579.16
16	0.00	0.00	0.00	0.00	1.60	7577.56
17	0.00	0.00	0.00	0.00	1.59	7575.97
18	0.00	0.00	0.00	0.00	1.67	7574.30
19	0.00	0.00	0.00	0.00	1.67	7572.63
20	0.00	0.00	0.00	0.00	1.67	7570.96
21	0.00	0.00	0.00	0.00	1.66	7569.30
22	0.00	0.00	0.00	0.00	1.66	7567.64
23	0.00	0.00	0.00	0.00	1.66	7565.98
24	0.00	0.00	0.00	0.00	1.66	7564.32
25	0.00	0.00	0.00	0.00	1.66	7562.66
26	40.24	0.00	0.00	0.00	1.65	7601.25
27	58.26	0.00	0.00	0.00	1.66	7657.85
28	56.88	0.00	0.00	0.00	1.58	7713.15
29	56.72	0.00	0.00	0.00	1.59	7768.28
30	55.62	0.00	0.00	0.00	1.51	7822.39
31	54.24	0.00	0.00	0.00	2.47	7874.16
	321.96	0.00	0.00	0.00	45.93	

OffsetAccount-Consumable Upstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						1461.90
1	0.00	0.00	0.00	0.00	0.03	1461.87
2	0.00	0.00	0.00	0.00	0.03	1461.84
3	0.00	0.00	0.00	0.00	0.10	1461.74
4	0.00	0.00	0.00	0.00	0.26	1461.48
5	0.00	0.00	0.00	0.00	0.26	1461.22
6	0.00	0.00	0.00	0.00	0.26	1460.96
7	0.00	0.00	0.00	0.00	0.29	1460.67
8	0.00	0.00	0.00	0.00	0.31	1460.36
9	0.00	0.00	0.00	0.00	0.28	1460.08
10	0.00	0.00	0.00	0.00	0.28	1459.80
11	0.00	0.00	0.00	0.00	0.31	1459.49
12	0.00	0.00	0.00	0.00	0.31	1459.18
13	0.00	0.00	0.00	0.00	0.31	1458.87
14	0.00	0.00	0.00	0.00	0.31	1458.56
15	0.00	0.00	0.00	0.00	0.31	1458.25
16	0.00	0.00	0.00	0.00	0.31	1457.94
17	0.00	0.00	0.00	0.00	0.31	1457.63
18	0.00	0.00	0.00	0.00	0.32	1457.31
19	0.00	0.00	0.00	0.00	0.32	1456.99
20	0.00	0.00	0.00	0.00	0.32	1456.67
21	0.00	0.00	0.00	0.00	0.32	1456.35
22	0.00	0.00	0.00	0.00	0.32	1456.03
23	0.00	0.00	0.00	0.00	0.32	1455.71
24	0.00	0.00	0.00	0.00	0.32	1455.39
25	0.00	0.00	0.00	0.00	0.32	1455.07
26	0.00	0.00	0.00	0.00	0.32	1454.75
27	0.00	0.00	0.00	0.00	0.32	1454.43
28	0.00	0.00	0.00	0.00	0.30	1454.13
29	0.00	0.00	0.00	0.00	0.30	1453.83
30	0.00	0.00	0.00	0.00	0.28	1453.55
31	0.00	0.00	0.00	0.00	0.46	1453.09
	0.00	0.00	0.00	0.00	8.81	

OffsetAccount-Consumable Kansas

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-Consumable Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						7567.78
1	0.00	0.00	0.00	0.00	0.17	7567.61
2	0.00	0.00	0.00	0.00	0.17	7567.44
3	0.00	0.00	0.00	0.00	0.51	7566.93
4	0.00	0.00	0.00	0.00	1.35	7565.58
5	0.00	0.00	0.00	0.00	1.35	7564.23
6	0.00	0.00	0.00	0.00	1.35	7562.88
7	0.00	0.00	0.00	0.00	1.52	7561.36
8	0.00	0.00	0.00	0.00	1.60	7559.76
9	0.00	0.00	0.00	0.00	1.44	7558.32
10	0.00	0.00	0.00	0.00	1.43	7556.89
11	0.00	0.00	0.00	0.00	1.60	7555.29
12	0.00	0.00	0.00	0.00	1.59	7553.70
13	0.00	0.00	0.00	0.00	1.59	7552.11
14	0.00	0.00	0.00	0.00	1.59	7550.52
15	0.00	0.00	0.00	0.00	1.59	7548.93
16	0.00	0.00	0.00	0.00	1.59	7547.34
17	0.00	0.00	0.00	0.00	1.58	7545.76
18	0.00	0.00	0.00	0.00	1.66	7544.10
19	0.00	0.00	0.00	0.00	1.66	7542.44
20	0.00	0.00	0.00	0.00	1.66	7540.78
21	0.00	0.00	0.00	0.00	1.65	7539.13
22	0.00	0.00	0.00	0.00	1.65	7537.48
23	0.00	0.00	0.00	0.00	1.65	7535.83
24	0.00	0.00	0.00	0.00	1.65	7534.18
25	0.00	0.00	0.00	0.00	1.65	7532.53
26	40.24	0.00	0.00	0.00	1.64	7571.13
27	58.26	0.00	0.00	0.00	1.65	7627.74
28	56.88	0.00	0.00	0.00	1.57	7683.05
29	56.72	0.00	0.00	0.00	1.58	7738.19
30	55.62	0.00	0.00	0.00	1.50	7792.31
31	54.24	0.00	0.00	0.00	2.46	7844.09
	321.96	0.00	0.00	0.00	45.65	

OffsetAccount-Consumable Downstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						6105.88
1	0.00	0.00	0.00	0.00	0.14	6105.74
2	0.00	0.00	0.00	0.00	0.14	6105.60
3	0.00	0.00	0.00	0.00	0.41	6105.19
4	0.00	0.00	0.00	0.00	1.09	6104.10
5	0.00	0.00	0.00	0.00	1.09	6103.01
6	0.00	0.00	0.00	0.00	1.09	6101.92
7	0.00	0.00	0.00	0.00	1.23	6100.69
8	0.00	0.00	0.00	0.00	1.29	6099.40
9	0.00	0.00	0.00	0.00	1.16	6098.24
10	0.00	0.00	0.00	0.00	1.15	6097.09
11	0.00	0.00	0.00	0.00	1.29	6095.80
12	0.00	0.00	0.00	0.00	1.28	6094.52
13	0.00	0.00	0.00	0.00	1.28	6093.24
14	0.00	0.00	0.00	0.00	1.28	6091.96
15	0.00	0.00	0.00	0.00	1.28	6090.68
16	0.00	0.00	0.00	0.00	1.28	6089.40
17	0.00	0.00	0.00	0.00	1.27	6088.13
18	0.00	0.00	0.00	0.00	1.34	6086.79
19	0.00	0.00	0.00	0.00	1.34	6085.45
20	0.00	0.00	0.00	0.00	1.34	6084.11
21	0.00	0.00	0.00	0.00	1.33	6082.78
22	0.00	0.00	0.00	0.00	1.33	6081.45
23	0.00	0.00	0.00	0.00	1.33	6080.12
24	0.00	0.00	0.00	0.00	1.33	6078.79
25	0.00	0.00	0.00	0.00	1.33	6077.46
26	0.00	0.00	0.00	0.00	1.32	6076.14
27	0.00	0.00	0.00	0.00	1.32	6074.82
28	0.00	0.00	0.00	0.00	1.25	6073.57
29	0.00	0.00	0.00	0.00	1.25	6072.32
30	0.00	0.00	0.00	0.00	1.18	6071.14
31	0.00	0.00	0.00	0.00	1.92	6069.22
	0.00	0.00	0.00	0.00	36.66	

OffsetAccount-Consumable Kansas Charge

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	40.24	0.00	0.00	0.00	0.00	40.24
27	58.26	0.00	0.00	0.00	0.01	98.49
28	56.88	0.00	0.00	0.00	0.02	155.35
29	56.72	0.00	0.00	0.00	0.03	212.04
30	55.62	0.00	0.00	0.00	0.04	267.62
31	54.24	0.00	0.00	0.00	0.08	321.78
	321.96	0.00	0.00	0.00	0.18	

OffsetAccount-ReturnFlow

Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						30.35
1	0.00	0.00	0.00	0.00	0.00	30.35
2	0.00	0.00	0.00	0.00	0.00	30.35
3	0.00	0.00	0.00	0.00	0.00	30.35
4	0.00	0.00	0.00	0.00	0.01	30.34
5	0.00	0.00	0.00	0.00	0.01	30.33
6	0.00	0.00	0.00	0.00	0.01	30.32
7	0.00	0.00	0.00	0.00	0.01	30.31
8	0.00	0.00	0.00	0.00	0.01	30.30
9	0.00	0.00	0.00	0.00	0.01	30.29
10	0.00	0.00	0.00	0.00	0.01	30.28
11	0.00	0.00	0.00	0.00	0.01	30.27
12	0.00	0.00	0.00	0.00	0.01	30.26
13	0.00	0.00	0.00	0.00	0.01	30.25
14	0.00	0.00	0.00	0.00	0.01	30.24
15	0.00	0.00	0.00	0.00	0.01	30.23
16	0.00	0.00	0.00	0.00	0.01	30.22
17	0.00	0.00	0.00	0.00	0.01	30.21
18	0.00	0.00	0.00	0.00	0.01	30.20
19	0.00	0.00	0.00	0.00	0.01	30.19
20	0.00	0.00	0.00	0.00	0.01	30.18
21	0.00	0.00	0.00	0.00	0.01	30.17
22	0.00	0.00	0.00	0.00	0.01	30.16
23	0.00	0.00	0.00	0.00	0.01	30.15
24	0.00	0.00	0.00	0.00	0.01	30.14
25	0.00	0.00	0.00	0.00	0.01	30.13
26	0.00	0.00	0.00	0.00	0.01	30.12
27	0.00	0.00	0.00	0.00	0.01	30.11
28	0.00	0.00	0.00	0.00	0.01	30.10
29	0.00	0.00	0.00	0.00	0.01	30.09
30	0.00	0.00	0.00	0.00	0.01	30.08
31	0.00	0.00	0.00	0.00	0.01	30.07
	0.00	0.00	0.00	0.00	0.28	

OffsetAccount-ReturnFlow

RF Transit Loss

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						30.35
1	0.00	0.00	0.00	0.00	0.00	30.35
2	0.00	0.00	0.00	0.00	0.00	30.35
3	0.00	0.00	0.00	0.00	0.00	30.35
4	0.00	0.00	0.00	0.00	0.01	30.34
5	0.00	0.00	0.00	0.00	0.01	30.33
6	0.00	0.00	0.00	0.00	0.01	30.32
7	0.00	0.00	0.00	0.00	0.01	30.31
8	0.00	0.00	0.00	0.00	0.01	30.30
9	0.00	0.00	0.00	0.00	0.01	30.29
10	0.00	0.00	0.00	0.00	0.01	30.28
11	0.00	0.00	0.00	0.00	0.01	30.27
12	0.00	0.00	0.00	0.00	0.01	30.26
13	0.00	0.00	0.00	0.00	0.01	30.25
14	0.00	0.00	0.00	0.00	0.01	30.24
15	0.00	0.00	0.00	0.00	0.01	30.23
16	0.00	0.00	0.00	0.00	0.01	30.22
17	0.00	0.00	0.00	0.00	0.01	30.21
18	0.00	0.00	0.00	0.00	0.01	30.20
19	0.00	0.00	0.00	0.00	0.01	30.19
20	0.00	0.00	0.00	0.00	0.01	30.18
21	0.00	0.00	0.00	0.00	0.01	30.17
22	0.00	0.00	0.00	0.00	0.01	30.16
23	0.00	0.00	0.00	0.00	0.01	30.15
24	0.00	0.00	0.00	0.00	0.01	30.14
25	0.00	0.00	0.00	0.00	0.01	30.13
26	0.00	0.00	0.00	0.00	0.01	30.12
27	0.00	0.00	0.00	0.00	0.01	30.11
28	0.00	0.00	0.00	0.00	0.01	30.10
29	0.00	0.00	0.00	0.00	0.01	30.09
30	0.00	0.00	0.00	0.00	0.01	30.08
31	0.00	0.00	0.00	0.00	0.01	30.07
	0.00	0.00	0.00	0.00	0.28	

OffsetAccount-ReturnFlow

Return Flow

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						7874.16
1	53.57	0.00	0.00	0.00	2.49	7925.24
2	53.45	0.00	0.00	0.00	2.63	7976.06
3	52.56	0.00	0.00	0.00	2.79	8025.83
4	51.52	0.00	0.00	0.00	2.77	8074.58
5	50.91	0.00	0.00	0.00	2.82	8122.67
6	50.88	0.00	0.00	0.00	2.83	8170.72
7	51.29	0.00	0.00	0.00	2.83	8219.18
8	52.00	0.00	0.00	0.00	2.85	8268.33
9	52.68	0.00	0.00	0.00	2.86	8318.15
10	52.69	0.00	0.00	0.00	2.87	8367.97
11	52.02	0.00	0.00	0.00	2.89	8417.10
12	51.36	0.00	0.00	0.00	2.90	8465.56
13	50.92	0.00	0.00	0.00	2.91	8513.57
14	50.97	0.00	0.00	0.00	2.93	8561.61
15	51.21	0.00	0.00	0.00	2.94	8609.88
16	51.37	0.00	0.00	0.00	2.96	8658.29
17	50.80	0.00	0.00	0.00	2.96	8706.13
18	50.50	0.00	0.00	0.00	2.98	8753.65
19	51.45	0.00	0.00	0.00	2.84	8802.26
20	52.20	0.00	0.00	0.00	2.85	8851.61
21	52.42	0.00	0.00	0.00	3.02	8901.01
22	52.95	0.00	0.00	0.00	3.04	8950.92
23	52.16	0.00	0.00	0.00	3.05	9000.03
24	51.61	0.00	0.00	0.00	2.90	9048.74
25	51.18	0.00	0.00	0.00	2.92	9097.00
26	50.95	0.00	0.00	0.00	2.94	9145.01
27	51.38	0.00	0.00	0.00	2.95	9193.44
28	53.10	0.00	0.00	0.00	4.79	9241.75
	1450.10	0.00	0.00	0.00	82.51	

OffsetAccount-Consumable Upstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						1453.09
1	0.00	0.00	0.00	0.00	0.46	1452.63
2	0.00	0.00	0.00	0.00	0.48	1452.15
3	0.00	0.00	0.00	0.00	0.51	1451.64
4	0.00	0.00	0.00	0.00	0.50	1451.14
5	0.00	0.00	0.00	0.00	0.51	1450.63
6	0.00	0.00	0.00	0.00	0.50	1450.13
7	0.00	0.00	0.00	0.00	0.50	1449.63
8	0.00	0.00	0.00	0.00	0.50	1449.13
9	0.00	0.00	0.00	0.00	0.50	1448.63
10	0.00	0.00	0.00	0.00	0.50	1448.13
11	0.00	0.00	0.00	0.00	0.50	1447.63
12	0.00	0.00	0.00	0.00	0.50	1447.13
13	0.00	0.00	0.00	0.00	0.50	1446.63
14	0.00	0.00	0.00	0.00	0.50	1446.13
15	0.00	0.00	0.00	0.00	0.50	1445.63
16	51.37	0.00	0.00	0.00	0.50	1496.50
17	50.80	0.00	0.00	0.00	0.51	1546.79
18	0.00	0.00	0.00	0.00	0.53	1546.26
19	0.00	0.00	0.00	0.00	0.50	1545.76
20	0.00	0.00	0.00	0.00	0.50	1545.26
21	0.00	0.00	0.00	0.00	0.53	1544.73
22	0.00	0.00	0.00	0.00	0.53	1544.20
23	0.00	0.00	0.00	0.00	0.53	1543.67
24	0.00	0.00	0.00	0.00	0.50	1543.17
25	0.00	0.00	0.00	0.00	0.50	1542.67
26	0.00	0.00	0.00	0.00	0.50	1542.17
27	0.00	0.00	0.00	0.00	0.50	1541.67
28	0.00	0.00	0.00	0.00	0.80	1540.87
	102.17	0.00	0.00	0.00	14.39	

OffsetAccount-Consumable Kansas

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-Consumable Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						7844.09
1	53.57	0.00	0.00	0.00	2.48	7895.18
2	53.45	0.00	0.00	0.00	2.62	7946.01
3	52.56	0.00	0.00	0.00	2.78	7995.79
4	51.52	0.00	0.00	0.00	2.76	8044.55
5	50.91	0.00	0.00	0.00	2.81	8092.65
6	50.88	0.00	0.00	0.00	2.82	8140.71
7	51.29	0.00	0.00	0.00	2.82	8189.18
8	52.00	0.00	0.00	0.00	2.84	8238.34
9	52.68	0.00	0.00	0.00	2.85	8288.17
10	52.69	0.00	0.00	0.00	2.86	8338.00
11	52.02	0.00	0.00	0.00	2.88	8387.14
12	51.36	0.00	0.00	0.00	2.89	8435.61
13	50.92	0.00	0.00	0.00	2.90	8483.63
14	50.97	0.00	0.00	0.00	2.92	8531.68
15	51.21	0.00	0.00	0.00	2.93	8579.96
16	51.37	0.00	0.00	0.00	2.95	8628.38
17	50.80	0.00	0.00	0.00	2.95	8676.23
18	50.50	0.00	0.00	0.00	2.97	8723.76
19	51.45	0.00	0.00	0.00	2.83	8772.38
20	52.20	0.00	0.00	0.00	2.84	8821.74
21	52.42	0.00	0.00	0.00	3.01	8871.15
22	52.95	0.00	0.00	0.00	3.03	8921.07
23	52.16	0.00	0.00	0.00	3.04	8970.19
24	51.61	0.00	0.00	0.00	2.89	9018.91
25	51.18	0.00	0.00	0.00	2.91	9067.18
26	50.95	0.00	0.00	0.00	2.93	9115.20
27	51.38	0.00	0.00	0.00	2.94	9163.64
28	53.10	0.00	0.00	0.00	4.77	9211.97
	1450.10	0.00	0.00	0.00	82.22	

OffsetAccount-Consumable Downstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						6069.22
1	0.00	0.00	0.00	0.00	1.92	6067.30
2	0.00	0.00	0.00	0.00	2.02	6065.28
3	0.00	0.00	0.00	0.00	2.12	6063.16
4	33.06	0.00	0.00	0.00	2.09	6094.13
5	50.91	0.00	0.00	0.00	2.13	6142.91
6	50.88	0.00	0.00	0.00	2.13	6191.66
7	51.29	0.00	0.00	0.00	2.15	6240.80
8	52.00	0.00	0.00	0.00	2.17	6290.63
9	52.68	0.00	0.00	0.00	2.18	6341.13
10	52.69	0.00	0.00	0.00	2.19	6391.63
11	52.02	0.00	0.00	0.00	2.21	6441.44
12	51.36	0.00	0.00	0.00	2.22	6490.58
13	50.92	0.00	0.00	0.00	2.23	6539.27
14	50.97	0.00	0.00	0.00	2.25	6587.99
15	51.21	0.00	0.00	0.00	2.26	6636.94
16	0.00	0.00	0.00	0.00	2.28	6634.66
17	0.00	0.00	0.00	0.00	2.27	6632.39
18	50.50	0.00	0.00	0.00	2.27	6680.62
19	51.45	0.00	0.00	0.00	2.17	6729.90
20	52.20	0.00	0.00	0.00	2.18	6779.92
21	52.42	0.00	0.00	0.00	2.31	6830.03
22	52.95	0.00	0.00	0.00	2.33	6880.65
23	52.16	0.00	0.00	0.00	2.34	6930.47
24	51.61	0.00	0.00	0.00	2.23	6979.85
25	51.18	0.00	0.00	0.00	2.25	7028.78
26	50.95	0.00	0.00	0.00	2.27	7077.46
27	51.38	0.00	0.00	0.00	2.28	7126.56
28	53.10	0.00	0.00	0.00	3.71	7175.95
	1169.89	0.00	0.00	0.00	63.16	

OffsetAccount-Consumable Kansas Charge

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						321.78
1	53.57	0.00	0.00	0.00	0.10	375.25
2	53.45	0.00	0.00	0.00	0.12	428.58
3	52.56	0.00	0.00	0.00	0.15	480.99
4	18.46	0.00	0.00	0.00	0.17	499.28
5	0.00	0.00	0.00	0.00	0.17	499.11
6	0.00	0.00	0.00	0.00	0.19	498.92
7	0.00	0.00	0.00	0.00	0.17	498.75
8	0.00	0.00	0.00	0.00	0.17	498.58
9	0.00	0.00	0.00	0.00	0.17	498.41
10	0.00	0.00	0.00	0.00	0.17	498.24
11	0.00	0.00	0.00	0.00	0.17	498.07
12	0.00	0.00	0.00	0.00	0.17	497.90
13	0.00	0.00	0.00	0.00	0.17	497.73
14	0.00	0.00	0.00	0.00	0.17	497.56
15	0.00	0.00	0.00	0.00	0.17	497.39
16	0.00	0.00	0.00	0.00	0.17	497.22
17	0.00	0.00	0.00	0.00	0.17	497.05
18	0.00	0.00	0.00	0.00	0.17	496.88
19	0.00	0.00	0.00	0.00	0.16	496.72
20	0.00	0.00	0.00	0.00	0.16	496.56
21	0.00	0.00	0.00	0.00	0.17	496.39
22	0.00	0.00	0.00	0.00	0.17	496.22
23	0.00	0.00	0.00	0.00	0.17	496.05
24	0.00	0.00	0.00	0.00	0.16	495.89
25	0.00	0.00	0.00	0.00	0.16	495.73
26	0.00	0.00	0.00	0.00	0.16	495.57
27	0.00	0.00	0.00	0.00	0.16	495.41
28	0.00	0.00	0.00	0.00	0.26	495.15
	178.04	0.00	0.00	0.00	4.67	

OffsetAccount-ReturnFlow
Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						30.07
1	0.00	0.00	0.00	0.00	0.01	30.06
2	0.00	0.00	0.00	0.00	0.01	30.05
3	0.00	0.00	0.00	0.00	0.01	30.04
4	0.00	0.00	0.00	0.00	0.01	30.03
5	0.00	0.00	0.00	0.00	0.01	30.02
6	0.00	0.00	0.00	0.00	0.01	30.01
7	0.00	0.00	0.00	0.00	0.01	30.00
8	0.00	0.00	0.00	0.00	0.01	29.99
9	0.00	0.00	0.00	0.00	0.01	29.98
10	0.00	0.00	0.00	0.00	0.01	29.97
11	0.00	0.00	0.00	0.00	0.01	29.96
12	0.00	0.00	0.00	0.00	0.01	29.95
13	0.00	0.00	0.00	0.00	0.01	29.94
14	0.00	0.00	0.00	0.00	0.01	29.93
15	0.00	0.00	0.00	0.00	0.01	29.92
16	0.00	0.00	0.00	0.00	0.01	29.91
17	0.00	0.00	0.00	0.00	0.01	29.90
18	0.00	0.00	0.00	0.00	0.01	29.89
19	0.00	0.00	0.00	0.00	0.01	29.88
20	0.00	0.00	0.00	0.00	0.01	29.87
21	0.00	0.00	0.00	0.00	0.01	29.86
22	0.00	0.00	0.00	0.00	0.01	29.85
23	0.00	0.00	0.00	0.00	0.01	29.84
24	0.00	0.00	0.00	0.00	0.01	29.83
25	0.00	0.00	0.00	0.00	0.01	29.82
26	0.00	0.00	0.00	0.00	0.01	29.81
27	0.00	0.00	0.00	0.00	0.01	29.80
28	0.00	0.00	0.00	0.00	0.02	29.78
	0.00	0.00	0.00	0.00	0.29	

OffsetAccount-ReturnFlow
RF Transit Loss

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						30.07
1	0.00	0.00	0.00	0.00	0.01	30.06
2	0.00	0.00	0.00	0.00	0.01	30.05
3	0.00	0.00	0.00	0.00	0.01	30.04
4	0.00	0.00	0.00	0.00	0.01	30.03
5	0.00	0.00	0.00	0.00	0.01	30.02
6	0.00	0.00	0.00	0.00	0.01	30.01
7	0.00	0.00	0.00	0.00	0.01	30.00
8	0.00	0.00	0.00	0.00	0.01	29.99
9	0.00	0.00	0.00	0.00	0.01	29.98
10	0.00	0.00	0.00	0.00	0.01	29.97
11	0.00	0.00	0.00	0.00	0.01	29.96
12	0.00	0.00	0.00	0.00	0.01	29.95
13	0.00	0.00	0.00	0.00	0.01	29.94
14	0.00	0.00	0.00	0.00	0.01	29.93
15	0.00	0.00	0.00	0.00	0.01	29.92
16	0.00	0.00	0.00	0.00	0.01	29.91
17	0.00	0.00	0.00	0.00	0.01	29.90
18	0.00	0.00	0.00	0.00	0.01	29.89
19	0.00	0.00	0.00	0.00	0.01	29.88
20	0.00	0.00	0.00	0.00	0.01	29.87
21	0.00	0.00	0.00	0.00	0.01	29.86
22	0.00	0.00	0.00	0.00	0.01	29.85
23	0.00	0.00	0.00	0.00	0.01	29.84
24	0.00	0.00	0.00	0.00	0.01	29.83
25	0.00	0.00	0.00	0.00	0.01	29.82
26	0.00	0.00	0.00	0.00	0.01	29.81
27	0.00	0.00	0.00	0.00	0.01	29.80
28	0.00	0.00	0.00	0.00	0.02	29.78
	0.00	0.00	0.00	0.00	0.29	

OffsetAccount-ReturnFlow
Return Flow

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						9241.75
1	54.58	0.00	0.00	0.00	4.81	9291.52
2	56.72	0.00	0.00	0.00	4.57	9343.67
3	58.12	0.00	0.00	0.00	0.51	9401.28
4	58.01	0.00	0.00	0.00	0.51	9458.78
5	56.42	0.00	0.00	0.00	0.00	9515.20
6	54.16	0.00	0.00	0.00	0.00	9569.36
7	52.68	0.00	0.00	0.00	2.11	9619.93
8	51.44	0.00	0.00	0.00	3.69	9667.68
9	50.97	0.00	0.00	0.00	4.77	9713.88
10	50.85	0.00	0.00	0.00	5.07	9759.66
11	51.80	0.00	0.00	0.00	5.36	9806.10
12	52.01	0.00	0.00	0.00	5.39	9852.72
13	51.05	0.00	0.00	0.00	5.44	9898.33
14	49.68	0.00	0.00	0.00	5.44	9942.57
15	48.78	0.00	0.00	0.00	5.46	9985.89
16	48.68	0.00	0.00	0.00	5.50	10029.07
17	51.20	0.00	0.00	0.00	5.52	10074.75
18	52.80	0.00	0.00	0.00	5.55	10122.00
19	17.66	0.00	0.00	0.00	5.51	10134.15
20	0.00	0.00	0.00	0.00	5.56	10128.59
21	0.00	0.00	0.00	0.00	5.56	10123.03
22	0.00	0.00	0.00	0.00	5.55	10117.48
23	7.14	0.00	0.00	0.00	5.53	10119.09
24	14.17	0.00	0.00	0.00	5.52	10127.74
25	7.27	0.00	93.07	0.00	5.52	10036.42
26	0.00	0.00	0.00	0.00	5.46	10030.96
27	0.00	0.00	0.00	0.00	5.46	10025.50
28	9.22	0.00	0.00	0.00	5.45	10029.27
29	15.47	0.00	0.00	0.00	5.44	10039.30
30	10.47	0.00	0.00	0.00	5.43	10044.34
31	3.88	13.74	0.00	0.00	6.99	10054.97
	1035.23	13.74	93.07	0.00	142.68	

OffsetAccount-Consumable Upstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						1540.87
1	0.00	0.00	0.00	0.00	0.80	1540.07
2	0.00	0.00	0.00	0.00	0.76	1539.31
3	0.00	0.00	0.00	0.00	0.08	1539.23
4	0.00	0.00	0.00	0.00	0.08	1539.15
5	0.00	0.00	0.00	0.00	0.00	1539.15
6	0.00	0.00	0.00	0.00	0.00	1539.15
7	0.00	0.00	0.00	0.00	0.34	1538.81
8	0.00	0.00	0.00	0.00	0.59	1538.22
9	0.00	0.00	0.00	0.00	0.76	1537.46
10	0.00	0.00	0.00	0.00	0.80	1536.66
11	0.00	0.00	0.00	0.00	0.84	1535.82
12	0.00	0.00	0.00	0.00	0.84	1534.98
13	0.00	0.00	0.00	0.00	0.85	1534.13
14	0.00	0.00	0.00	0.00	0.84	1533.29
15	0.00	0.00	0.00	0.00	0.84	1532.45
16	0.00	0.00	0.00	0.00	0.84	1531.61
17	0.00	0.00	0.00	0.00	0.84	1530.77
18	0.00	0.00	0.00	0.00	0.84	1529.93
19	0.00	0.00	0.00	0.00	0.83	1529.10
20	0.00	0.00	0.00	0.00	0.84	1528.26
21	0.00	0.00	0.00	0.00	0.84	1527.42
22	0.00	0.00	0.00	0.00	0.84	1526.58
23	0.00	0.00	0.00	0.00	0.83	1525.75
24	0.00	0.00	0.00	0.00	0.83	1524.92
25	0.00	0.00	93.07	0.00	0.83	1431.02
26	0.00	0.00	0.00	0.00	0.78	1430.24
27	0.00	0.00	0.00	0.00	0.78	1429.46
28	0.00	0.00	0.00	0.00	0.78	1428.68
29	0.00	0.00	0.00	0.00	0.77	1427.91
30	0.00	0.00	0.00	0.00	0.77	1427.14
31	0.00	0.00	0.00	0.00	0.99	1426.15
	0.00	0.00	93.07	0.00	21.65	

OffsetAccount-Consumable Kansas

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-Consumable Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						9211.97
1	54.58	0.00	0.00	0.00	4.79	9261.76
2	56.72	0.00	0.00	0.00	4.56	9313.92
3	58.12	0.00	0.00	0.00	0.51	9371.53
4	58.01	0.00	0.00	0.00	0.51	9429.03
5	56.42	0.00	0.00	0.00	0.00	9485.45
6	54.16	0.00	0.00	0.00	0.00	9539.61
7	52.68	0.00	0.00	0.00	2.10	9590.19
8	51.44	0.00	0.00	0.00	3.68	9637.95
9	50.97	0.00	0.00	0.00	4.76	9684.16
10	50.85	0.00	0.00	0.00	5.05	9729.96
11	51.80	0.00	0.00	0.00	5.34	9776.42
12	52.01	0.00	0.00	0.00	5.37	9823.06
13	51.05	0.00	0.00	0.00	5.42	9868.69
14	49.68	0.00	0.00	0.00	5.42	9912.95
15	48.78	0.00	0.00	0.00	5.44	9956.29
16	48.68	0.00	0.00	0.00	5.48	9999.49
17	51.20	0.00	0.00	0.00	5.50	10045.19
18	52.80	0.00	0.00	0.00	5.53	10092.46
19	17.66	0.00	0.00	0.00	5.49	10104.63
20	0.00	0.00	0.00	0.00	5.54	10099.09
21	0.00	0.00	0.00	0.00	5.54	10093.55
22	0.00	0.00	0.00	0.00	5.53	10088.02
23	7.14	0.00	0.00	0.00	5.51	10089.65
24	14.17	0.00	0.00	0.00	5.50	10098.32
25	7.27	0.00	93.07	0.00	5.50	10007.02
26	0.00	0.00	0.00	0.00	5.44	10001.58
27	0.00	0.00	0.00	0.00	5.44	9996.14
28	9.22	0.00	0.00	0.00	5.43	9999.93
29	15.47	0.00	0.00	0.00	5.42	10009.98
30	10.47	0.00	0.00	0.00	5.41	10015.04
31	3.88	11.94	0.00	0.00	6.97	10023.89
	1035.23	11.94	93.07	0.00	142.18	

OffsetAccount-Consumable Downstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						7175.95
1	54.58	0.00	0.00	0.00	3.73	7226.80
2	56.72	0.00	0.00	0.00	3.56	7279.96
3	58.12	0.00	0.00	0.00	0.40	7337.68
4	58.01	0.00	0.00	0.00	0.40	7395.29
5	56.42	0.00	0.00	0.00	0.00	7451.71
6	54.16	0.00	0.00	0.00	0.00	7505.87
7	52.68	0.00	0.00	0.00	1.65	7556.90
8	51.44	0.00	0.00	0.00	2.90	7605.44
9	50.97	0.00	0.00	0.00	3.76	7652.65
10	50.85	0.00	0.00	0.00	3.99	7699.51
11	51.80	0.00	0.00	0.00	4.23	7747.08
12	52.01	0.00	0.00	0.00	4.26	7794.83
13	51.05	0.00	0.00	0.00	4.30	7841.58
14	49.68	0.00	0.00	0.00	4.31	7886.95
15	48.78	0.00	0.00	0.00	4.33	7931.40
16	48.68	0.00	0.00	0.00	4.37	7975.71
17	51.20	0.00	0.00	0.00	4.39	8022.52
18	52.80	0.00	0.00	0.00	4.42	8070.90
19	17.66	0.00	0.00	0.00	4.39	8084.17
20	0.00	0.00	0.00	0.00	4.43	8079.74
21	0.00	0.00	0.00	0.00	4.43	8075.31
22	0.00	0.00	0.00	0.00	4.42	8070.89
23	7.14	0.00	0.00	0.00	4.41	8073.62
24	14.17	0.00	0.00	0.00	4.40	8083.39
25	7.27	0.00	0.00	0.00	4.40	8086.26
26	0.00	0.00	0.00	0.00	4.39	8081.87
27	0.00	0.00	0.00	0.00	4.39	8077.48
28	9.22	0.00	0.00	0.00	4.38	8082.32
29	15.47	0.00	0.00	0.00	4.38	8093.41
30	10.47	0.00	0.00	0.00	4.38	8099.50
31	3.88	0.00	0.00	0.00	5.64	8097.74
	1035.23	0.00	0.00	0.00	113.44	

OffsetAccount-Consumable Kansas Charge

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						495.15
1	0.00	0.00	0.00	0.00	0.26	494.89
2	0.00	0.00	0.00	0.00	0.24	494.65
3	0.00	0.00	0.00	0.00	0.03	494.62
4	0.00	0.00	0.00	0.00	0.03	494.59
5	0.00	0.00	0.00	0.00	0.00	494.59
6	0.00	0.00	0.00	0.00	0.00	494.59
7	0.00	0.00	0.00	0.00	0.11	494.48
8	0.00	0.00	0.00	0.00	0.19	494.29
9	0.00	0.00	0.00	0.00	0.24	494.05
10	0.00	0.00	0.00	0.00	0.26	493.79
11	0.00	0.00	0.00	0.00	0.27	493.52
12	0.00	0.00	0.00	0.00	0.27	493.25
13	0.00	0.00	0.00	0.00	0.27	492.98
14	0.00	0.00	0.00	0.00	0.27	492.71
15	0.00	0.00	0.00	0.00	0.27	492.44
16	0.00	0.00	0.00	0.00	0.27	492.17
17	0.00	0.00	0.00	0.00	0.27	491.90
18	0.00	0.00	0.00	0.00	0.27	491.63
19	0.00	0.00	0.00	0.00	0.27	491.36
20	0.00	0.00	0.00	0.00	0.27	491.09
21	0.00	0.00	0.00	0.00	0.27	490.82
22	0.00	0.00	0.00	0.00	0.27	490.55
23	0.00	0.00	0.00	0.00	0.27	490.28
24	0.00	0.00	0.00	0.00	0.27	490.01
25	0.00	0.00	0.00	0.00	0.27	489.74
26	0.00	0.00	0.00	0.00	0.27	489.47
27	0.00	0.00	0.00	0.00	0.27	489.20
28	0.00	0.00	0.00	0.00	0.27	488.93
29	0.00	0.00	0.00	0.00	0.27	488.66
30	0.00	0.00	0.00	0.00	0.26	488.40
31	0.00	11.94	0.00	0.00	0.34	500.00
	0.00	11.94	0.00	0.00	7.09	

OffsetAccount-ReturnFlow

Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						29.78
1	0.00	0.00	0.00	0.00	0.02	29.76
2	0.00	0.00	0.00	0.00	0.01	29.75
3	0.00	0.00	0.00	0.00	0.00	29.75
4	0.00	0.00	0.00	0.00	0.00	29.75
5	0.00	0.00	0.00	0.00	0.00	29.75
6	0.00	0.00	0.00	0.00	0.00	29.75
7	0.00	0.00	0.00	0.00	0.01	29.74
8	0.00	0.00	0.00	0.00	0.01	29.73
9	0.00	0.00	0.00	0.00	0.01	29.72
10	0.00	0.00	0.00	0.00	0.02	29.70
11	0.00	0.00	0.00	0.00	0.02	29.68
12	0.00	0.00	0.00	0.00	0.02	29.66
13	0.00	0.00	0.00	0.00	0.02	29.64
14	0.00	0.00	0.00	0.00	0.02	29.62
15	0.00	0.00	0.00	0.00	0.02	29.60
16	0.00	0.00	0.00	0.00	0.02	29.58
17	0.00	0.00	0.00	0.00	0.02	29.56
18	0.00	0.00	0.00	0.00	0.02	29.54
19	0.00	0.00	0.00	0.00	0.02	29.52
20	0.00	0.00	0.00	0.00	0.02	29.50
21	0.00	0.00	0.00	0.00	0.02	29.48
22	0.00	0.00	0.00	0.00	0.02	29.46
23	0.00	0.00	0.00	0.00	0.02	29.44
24	0.00	0.00	0.00	0.00	0.02	29.42
25	0.00	0.00	0.00	0.00	0.02	29.40
26	0.00	0.00	0.00	0.00	0.02	29.38
27	0.00	0.00	0.00	0.00	0.02	29.36
28	0.00	0.00	0.00	0.00	0.02	29.34
29	0.00	0.00	0.00	0.00	0.02	29.32
30	0.00	0.00	0.00	0.00	0.02	29.30
31	0.00	1.80	0.00	0.00	0.02	31.08
	0.00	1.80	0.00	0.00	0.50	

OffsetAccount-ReturnFlow

RF Transit Loss

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						29.78
1	0.00	0.00	0.00	0.00	0.02	29.76
2	0.00	0.00	0.00	0.00	0.01	29.75
3	0.00	0.00	0.00	0.00	0.00	29.75
4	0.00	0.00	0.00	0.00	0.00	29.75
5	0.00	0.00	0.00	0.00	0.00	29.75
6	0.00	0.00	0.00	0.00	0.00	29.75
7	0.00	0.00	0.00	0.00	0.01	29.74
8	0.00	0.00	0.00	0.00	0.01	29.73
9	0.00	0.00	0.00	0.00	0.01	29.72
10	0.00	0.00	0.00	0.00	0.02	29.70
11	0.00	0.00	0.00	0.00	0.02	29.68
12	0.00	0.00	0.00	0.00	0.02	29.66
13	0.00	0.00	0.00	0.00	0.02	29.64
14	0.00	0.00	0.00	0.00	0.02	29.62
15	0.00	0.00	0.00	0.00	0.02	29.60
16	0.00	0.00	0.00	0.00	0.02	29.58
17	0.00	0.00	0.00	0.00	0.02	29.56
18	0.00	0.00	0.00	0.00	0.02	29.54
19	0.00	0.00	0.00	0.00	0.02	29.52
20	0.00	0.00	0.00	0.00	0.02	29.50
21	0.00	0.00	0.00	0.00	0.02	29.48
22	0.00	0.00	0.00	0.00	0.02	29.46
23	0.00	0.00	0.00	0.00	0.02	29.44
24	0.00	0.00	0.00	0.00	0.02	29.42
25	0.00	0.00	0.00	0.00	0.02	29.40
26	0.00	0.00	0.00	0.00	0.02	29.38
27	0.00	0.00	0.00	0.00	0.02	29.36
28	0.00	0.00	0.00	0.00	0.02	29.34
29	0.00	0.00	0.00	0.00	0.02	29.32
30	0.00	0.00	0.00	0.00	0.02	29.30
31	0.00	0.09	0.00	0.00	0.02	29.37
	0.00	0.09	0.00	0.00	0.50	

OffsetAccount-ReturnFlow

Return Flow

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	1.71	0.00	0.00	0.00	1.71
	0.00	1.71	0.00	0.00	0.00	

OffsetAccount-Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						10054.97
1	3.15	0.00	0.00	0.00	0.52	10057.60
2	20.66	0.00	0.00	0.00	8.02	10070.24
3	22.50	0.00	0.00	0.00	3.37	10089.37
4	26.57	0.00	0.00	0.00	7.52	10108.42
5	24.31	0.00	0.00	0.00	7.28	10125.45
6	23.17	0.00	0.00	0.00	7.28	10141.34
7	23.97	0.00	0.00	0.00	7.29	10158.02
8	23.97	0.00	0.00	0.00	6.52	10175.47
9	22.27	0.00	0.00	0.00	6.79	10190.95
10	20.80	0.00	0.00	0.00	7.05	10204.70
11	30.75	0.00	0.00	0.00	7.06	10228.39
12	52.43	0.00	0.00	0.00	7.08	10273.74
13	39.67	0.00	0.00	0.00	7.11	10306.30
14	19.12	0.00	0.00	0.00	7.13	10318.29
15	14.70	0.00	0.00	0.00	5.02	10327.97
16	13.51	0.00	0.00	0.00	7.68	10333.80
17	13.40	0.00	0.00	0.00	10.35	10336.85
18	12.61	0.00	0.00	0.00	7.96	10341.50
19	12.06	0.00	0.00	0.00	9.57	10343.99
20	12.61	0.00	0.00	0.00	9.58	10347.02
21	12.39	0.00	0.00	0.00	9.32	10350.09
22	11.50	0.00	0.00	0.00	6.14	10355.45
23	10.55	0.00	0.00	0.00	1.61	10364.39
24	10.59	0.00	0.00	0.00	7.53	10367.45
25	10.93	0.00	0.00	0.00	11.85	10366.53
26	20.60	0.00	0.00	0.00	10.54	10376.59
27	23.21	0.00	0.00	0.00	10.82	10388.98
28	29.06	0.00	0.00	0.00	10.58	10407.46
29	30.47	0.00	0.00	0.00	8.42	10429.51
30	46.67	0.00	0.00	0.00	4.62	10471.56
	638.20	0.00	0.00	0.00	221.61	

OffsetAccount-Consumable Upstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						1426.15
1	0.00	0.00	0.00	0.00	0.07	1426.08
2	0.00	0.00	0.00	0.00	1.14	1424.94
3	0.00	0.00	0.00	0.00	0.48	1424.46
4	0.00	0.00	0.00	0.00	1.06	1423.40
5	0.00	0.00	0.00	0.00	1.03	1422.37
6	0.00	0.00	0.00	0.00	1.02	1421.35
7	0.00	0.00	0.00	0.00	1.02	1420.33
8	0.00	0.00	0.00	0.00	0.91	1419.42
9	0.00	0.00	0.00	0.00	0.95	1418.47
10	0.00	0.00	0.00	0.00	0.98	1417.49
11	0.00	0.00	0.00	0.00	0.98	1416.51
12	0.00	0.00	0.00	0.00	0.98	1415.53
13	0.00	0.00	0.00	0.00	0.98	1414.55
14	0.00	0.00	0.00	0.00	0.98	1413.57
15	0.00	0.00	0.00	0.00	0.69	1412.88
16	0.00	0.00	0.00	0.00	1.05	1411.83
17	0.00	0.00	0.00	0.00	1.41	1410.42
18	0.00	0.00	0.00	0.00	1.09	1409.33
19	0.00	0.00	0.00	0.00	1.30	1408.03
20	12.61	0.00	0.00	0.00	1.30	1419.34
21	0.00	0.00	0.00	0.00	1.28	1418.06
22	0.00	0.00	0.00	0.00	0.84	1417.22
23	0.00	0.00	0.00	0.00	0.22	1417.00
24	0.00	0.00	0.00	0.00	1.03	1415.97
25	0.00	0.00	0.00	0.00	1.62	1414.35
26	0.00	0.00	0.00	0.00	1.44	1412.91
27	0.00	0.00	0.00	0.00	1.47	1411.44
28	0.00	0.00	0.00	0.00	1.44	1410.00
29	0.00	0.00	0.00	0.00	1.14	1408.86
30	0.00	0.00	0.00	0.00	0.62	1408.24
	12.61	0.00	0.00	0.00	30.52	

OffsetAccount-Consumable Kansas

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-Consumable Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						10023.89
1	3.15	0.00	0.00	0.00	0.52	10026.52
2	20.66	0.00	0.00	0.00	8.00	10039.18
3	22.50	0.00	0.00	0.00	3.36	10058.32
4	26.57	0.00	0.00	0.00	7.50	10077.39
5	24.31	0.00	0.00	0.00	7.26	10094.44
6	23.17	0.00	0.00	0.00	7.26	10110.35
7	23.97	0.00	0.00	0.00	7.27	10127.05
8	23.97	0.00	0.00	0.00	6.50	10144.52
9	22.27	0.00	0.00	0.00	6.77	10160.02
10	20.80	0.00	0.00	0.00	7.03	10173.79
11	30.75	0.00	0.00	0.00	7.04	10197.50
12	52.43	0.00	0.00	0.00	7.06	10242.87
13	39.67	0.00	0.00	0.00	7.09	10275.45
14	19.12	0.00	0.00	0.00	7.11	10287.46
15	14.70	0.00	0.00	0.00	5.01	10297.15
16	13.51	0.00	0.00	0.00	7.66	10303.00
17	13.40	0.00	0.00	0.00	10.32	10306.08
18	12.61	0.00	0.00	0.00	7.94	10310.75
19	12.06	0.00	0.00	0.00	9.54	10313.27
20	12.61	0.00	0.00	0.00	9.55	10316.33
21	12.39	0.00	0.00	0.00	9.29	10319.43
22	11.50	0.00	0.00	0.00	6.12	10324.81
23	10.55	0.00	0.00	0.00	1.61	10333.75
24	10.59	0.00	0.00	0.00	7.51	10336.83
25	10.93	0.00	0.00	0.00	11.82	10335.94
26	20.60	0.00	0.00	0.00	10.51	10346.03
27	23.21	0.00	0.00	0.00	10.79	10358.45
28	29.06	0.00	0.00	0.00	10.55	10376.96
29	30.47	0.00	0.00	0.00	8.40	10399.03
30	46.67	0.00	0.00	0.00	4.61	10441.09
	638.20	0.00	0.00	0.00	221.00	

OffsetAccount-Consumable Downstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						8097.74
1	3.15	0.00	0.00	0.00	0.42	8100.47
2	20.66	0.00	0.00	0.00	6.46	8114.67
3	22.50	0.00	0.00	0.00	2.71	8134.46
4	26.57	0.00	0.00	0.00	6.07	8154.96
5	24.31	0.00	0.00	0.00	5.87	8173.40
6	23.17	0.00	0.00	0.00	5.88	8190.69
7	23.97	0.00	0.00	0.00	5.89	8208.77
8	23.97	0.00	0.00	0.00	5.27	8227.47
9	22.27	0.00	0.00	0.00	5.49	8244.25
10	20.80	0.00	0.00	0.00	5.71	8259.34
11	30.75	0.00	0.00	0.00	5.72	8284.37
12	52.43	0.00	0.00	0.00	5.74	8331.06
13	39.67	0.00	0.00	0.00	5.77	8364.96
14	19.12	0.00	0.00	0.00	5.79	8378.29
15	14.70	0.00	0.00	0.00	4.08	8388.91
16	13.51	0.00	0.00	0.00	6.24	8396.18
17	13.40	0.00	0.00	0.00	8.41	8401.17
18	12.61	0.00	0.00	0.00	6.47	8407.31
19	12.06	0.00	0.00	0.00	7.78	8411.59
20	0.00	0.00	0.00	0.00	7.79	8403.80
21	12.39	0.00	0.00	0.00	7.57	8408.62
22	11.50	0.00	0.00	0.00	4.99	8415.13
23	10.55	0.00	0.00	0.00	1.31	8424.37
24	10.59	0.00	0.00	0.00	6.12	8428.84
25	10.93	0.00	0.00	0.00	9.64	8430.13
26	20.60	0.00	0.00	0.00	8.57	8442.16
27	23.21	0.00	0.00	0.00	8.81	8456.56
28	29.06	0.00	0.00	0.00	8.61	8477.01
29	30.47	0.00	0.00	0.00	6.86	8500.62
30	46.67	0.00	0.00	0.00	3.77	8543.52
	625.59	0.00	0.00	0.00	179.81	

OffsetAccount-Consumable Kansas Charge

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						500.00
1	0.00	0.00	0.00	0.00	0.03	499.97
2	0.00	0.00	0.00	0.00	0.40	499.57
3	0.00	0.00	0.00	0.00	0.17	499.40
4	0.00	0.00	0.00	0.00	0.37	499.03
5	0.00	0.00	0.00	0.00	0.36	498.67
6	0.00	0.00	0.00	0.00	0.36	498.31
7	0.00	0.00	0.00	0.00	0.36	497.95
8	0.00	0.00	0.00	0.00	0.32	497.63
9	0.00	0.00	0.00	0.00	0.33	497.30
10	0.00	0.00	0.00	0.00	0.34	496.96
11	0.00	0.00	0.00	0.00	0.34	496.62
12	0.00	0.00	0.00	0.00	0.34	496.28
13	0.00	0.00	0.00	0.00	0.34	495.94
14	0.00	0.00	0.00	0.00	0.34	495.60
15	0.00	0.00	0.00	0.00	0.24	495.36
16	0.00	0.00	0.00	0.00	0.37	494.99
17	0.00	0.00	0.00	0.00	0.50	494.49
18	0.00	0.00	0.00	0.00	0.38	494.11
19	0.00	0.00	0.00	0.00	0.46	493.65
20	0.00	0.00	0.00	0.00	0.46	493.19
21	0.00	0.00	0.00	0.00	0.44	492.75
22	0.00	0.00	0.00	0.00	0.29	492.46
23	0.00	0.00	0.00	0.00	0.08	492.38
24	0.00	0.00	0.00	0.00	0.36	492.02
25	0.00	0.00	0.00	0.00	0.56	491.46
26	0.00	0.00	0.00	0.00	0.50	490.96
27	0.00	0.00	0.00	0.00	0.51	490.45
28	0.00	0.00	0.00	0.00	0.50	489.95
29	0.00	0.00	0.00	0.00	0.40	489.55
30	0.00	0.00	0.00	0.00	0.22	489.33
	0.00	0.00	0.00	0.00	10.67	

OffsetAccount-ReturnFlow

Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						31.08
1	0.00	0.00	0.00	0.00	0.00	31.08
2	0.00	0.00	0.00	0.00	0.02	31.06
3	0.00	0.00	0.00	0.00	0.01	31.05
4	0.00	0.00	0.00	0.00	0.02	31.03
5	0.00	0.00	0.00	0.00	0.02	31.01
6	0.00	0.00	0.00	0.00	0.02	30.99
7	0.00	0.00	0.00	0.00	0.02	30.97
8	0.00	0.00	0.00	0.00	0.02	30.95
9	0.00	0.00	0.00	0.00	0.02	30.93
10	0.00	0.00	0.00	0.00	0.02	30.91
11	0.00	0.00	0.00	0.00	0.02	30.89
12	0.00	0.00	0.00	0.00	0.02	30.87
13	0.00	0.00	0.00	0.00	0.02	30.85
14	0.00	0.00	0.00	0.00	0.02	30.83
15	0.00	0.00	0.00	0.00	0.01	30.82
16	0.00	0.00	0.00	0.00	0.02	30.80
17	0.00	0.00	0.00	0.00	0.03	30.77
18	0.00	0.00	0.00	0.00	0.02	30.75
19	0.00	0.00	0.00	0.00	0.03	30.72
20	0.00	0.00	0.00	0.00	0.03	30.69
21	0.00	0.00	0.00	0.00	0.03	30.66
22	0.00	0.00	0.00	0.00	0.02	30.64
23	0.00	0.00	0.00	0.00	0.00	30.64
24	0.00	0.00	0.00	0.00	0.02	30.62
25	0.00	0.00	0.00	0.00	0.03	30.59
26	0.00	0.00	0.00	0.00	0.03	30.56
27	0.00	0.00	0.00	0.00	0.03	30.53
28	0.00	0.00	0.00	0.00	0.03	30.50
29	0.00	0.00	0.00	0.00	0.02	30.48
30	0.00	0.00	0.00	0.00	0.01	30.47
	0.00	0.00	0.00	0.00	0.61	

OffsetAccount-ReturnFlow

RF Transit Loss

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						29.37
1	0.00	0.00	0.00	0.00	0.00	29.37
2	0.00	0.00	0.00	0.00	0.02	29.35
3	0.00	0.00	0.00	0.00	0.01	29.34
4	0.00	0.00	0.00	0.00	0.02	29.32
5	0.00	0.00	0.00	0.00	0.02	29.30
6	0.00	0.00	0.00	0.00	0.02	29.28
7	0.00	0.00	0.00	0.00	0.02	29.26
8	0.00	0.00	0.00	0.00	0.02	29.24
9	0.00	0.00	0.00	0.00	0.02	29.22
10	0.00	0.00	0.00	0.00	0.02	29.20
11	0.00	0.00	0.00	0.00	0.02	29.18
12	0.00	0.00	0.00	0.00	0.02	29.16
13	0.00	0.00	0.00	0.00	0.02	29.14
14	0.00	0.00	0.00	0.00	0.02	29.12
15	0.00	0.00	0.00	0.00	0.01	29.11
16	0.00	0.00	0.00	0.00	0.02	29.09
17	0.00	0.00	0.00	0.00	0.03	29.06
18	0.00	0.00	0.00	0.00	0.02	29.04
19	0.00	0.00	0.00	0.00	0.03	29.01
20	0.00	0.00	0.00	0.00	0.03	28.98
21	0.00	0.00	0.00	0.00	0.03	28.95
22	0.00	0.00	0.00	0.00	0.02	28.93
23	0.00	0.00	0.00	0.00	0.00	28.93
24	0.00	0.00	0.00	0.00	0.02	28.91
25	0.00	0.00	0.00	0.00	0.03	28.88
26	0.00	0.00	0.00	0.00	0.03	28.85
27	0.00	0.00	0.00	0.00	0.03	28.82
28	0.00	0.00	0.00	0.00	0.03	28.79
29	0.00	0.00	0.00	0.00	0.02	28.77
30	0.00	0.00	0.00	0.00	0.01	28.76
	0.00	0.00	0.00	0.00	0.61	

OffsetAccount-ReturnFlow

Return Flow

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						1.71
1	0.00	0.00	0.00	0.00	0.00	1.71
2	0.00	0.00	0.00	0.00	0.00	1.71
3	0.00	0.00	0.00	0.00	0.00	1.71
4	0.00	0.00	0.00	0.00	0.00	1.71
5	0.00	0.00	0.00	0.00	0.00	1.71
6	0.00	0.00	0.00	0.00	0.00	1.71
7	0.00	0.00	0.00	0.00	0.00	1.71
8	0.00	0.00	0.00	0.00	0.00	1.71
9	0.00	0.00	0.00	0.00	0.00	1.71
10	0.00	0.00	0.00	0.00	0.00	1.71
11	0.00	0.00	0.00	0.00	0.00	1.71
12	0.00	0.00	0.00	0.00	0.00	1.71
13	0.00	0.00	0.00	0.00	0.00	1.71
14	0.00	0.00	0.00	0.00	0.00	1.71
15	0.00	0.00	0.00	0.00	0.00	1.71
16	0.00	0.00	0.00	0.00	0.00	1.71
17	0.00	0.00	0.00	0.00	0.00	1.71
18	0.00	0.00	0.00	0.00	0.00	1.71
19	0.00	0.00	0.00	0.00	0.00	1.71
20	0.00	0.00	0.00	0.00	0.00	1.71
21	0.00	0.00	0.00	0.00	0.00	1.71
22	0.00	0.00	0.00	0.00	0.00	1.71
23	0.00	0.00	0.00	0.00	0.00	1.71
24	0.00	0.00	0.00	0.00	0.00	1.71
25	0.00	0.00	0.00	0.00	0.00	1.71
26	0.00	0.00	0.00	0.00	0.00	1.71
27	0.00	0.00	0.00	0.00	0.00	1.71
28	0.00	0.00	0.00	0.00	0.00	1.71
29	0.00	0.00	0.00	0.00	0.00	1.71
30	0.00	0.00	0.00	0.00	0.00	1.71
	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						10471.56
1	46.05	0.00	0.00	0.00	2.74	10514.87
2	46.18	0.00	0.00	0.00	6.02	10555.03
3	59.20	0.00	0.00	0.00	9.06	10605.17
4	38.07	0.00	0.00	0.00	9.10	10634.14
5	30.25	0.00	0.00	0.00	8.30	10656.09
6	32.22	0.00	0.00	0.00	9.15	10679.16
7	31.40	0.00	0.00	0.00	1.38	10709.18
8	29.87	0.00	0.00	0.00	3.07	10735.98
9	31.85	0.00	0.00	0.00	8.67	10759.16
10	34.63	0.00	0.00	0.00	4.77	10789.02
11	34.79	0.00	0.00	0.00	4.79	10819.02
12	35.61	0.00	0.00	0.00	4.81	10849.82
13	36.78	0.00	0.00	0.00	8.83	10877.77
14	37.21	0.00	0.00	0.00	13.44	10901.54
15	60.22	0.00	0.00	0.00	9.75	10952.01
16	71.71	0.00	0.00	0.00	18.71	11005.01
17	65.70	0.00	0.00	0.00	11.59	11059.12
18	55.86	0.00	0.00	0.00	11.93	11103.05
19	41.14	0.00	0.00	0.00	11.99	11132.20
20	35.04	0.00	0.00	0.00	1.46	11165.78
21	50.95	0.00	0.00	0.00	0.59	11216.14
22	58.00	0.00	0.00	0.00	11.30	11262.84
23	65.70	0.00	0.00	0.00	0.90	11327.64
24	55.70	0.00	0.00	0.00	10.79	11372.55
25	49.11	0.00	0.00	0.00	10.84	11410.82
26	64.98	0.00	0.00	0.00	10.58	11465.22
27	55.07	0.00	0.00	0.00	10.64	11509.65
28	38.43	0.00	0.00	0.00	12.20	11535.88
29	37.65	0.00	0.00	0.00	8.57	11564.96
30	40.94	0.00	0.00	0.00	6.46	11599.44
31	46.10	0.00	0.00	0.00	11.73	11633.81
	1416.41	0.00	0.00	0.00	254.16	

OffsetAccount-Consumable Upstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						1408.24
1	0.00	0.00	0.00	0.00	0.37	1407.87
2	0.00	0.00	0.00	0.00	0.81	1407.06
3	0.00	0.00	0.00	0.00	1.21	1405.85
4	0.00	0.00	0.00	0.00	1.21	1404.64
5	0.00	0.00	0.00	0.00	1.10	1403.54
6	0.00	0.00	0.00	0.00	1.21	1402.33
7	0.00	0.00	0.00	0.00	0.18	1402.15
8	0.00	0.00	0.00	0.00	0.40	1401.75
9	0.00	0.00	0.00	0.00	1.13	1400.62
10	0.00	0.00	0.00	0.00	0.62	1400.00
11	0.00	0.00	0.00	0.00	0.62	1399.38
12	0.00	0.00	0.00	0.00	0.62	1398.76
13	0.00	0.00	0.00	0.00	1.14	1397.62
14	0.00	0.00	0.00	0.00	1.73	1395.89
15	0.00	0.00	0.00	0.00	1.25	1394.64
16	0.00	0.00	0.00	0.00	2.38	1392.26
17	0.00	0.00	0.00	0.00	1.47	1390.79
18	0.00	0.00	0.00	0.00	1.50	1389.29
19	0.00	0.00	0.00	0.00	1.50	1387.79
20	0.00	0.00	0.00	0.00	0.18	1387.61
21	0.00	0.00	0.00	0.00	0.07	1387.54
22	0.00	0.00	0.00	0.00	1.40	1386.14
23	0.00	0.00	0.00	0.00	0.11	1386.03
24	0.00	0.00	0.00	0.00	1.32	1384.71
25	0.00	0.00	0.00	0.00	1.32	1383.39
26	0.00	0.00	0.00	0.00	1.28	1382.11
27	0.00	0.00	0.00	0.00	1.28	1380.83
28	0.00	0.00	0.00	0.00	1.46	1379.37
29	0.00	0.00	0.00	0.00	1.02	1378.35
30	0.00	0.00	0.00	0.00	0.77	1377.58
31	0.00	0.00	0.00	0.00	1.39	1376.19
	0.00	0.00	0.00	0.00	32.05	

OffsetAccount-Consumable Kansas

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-Consumable Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						10441.09
1	46.05	0.00	0.00	0.00	2.73	10484.41
2	46.18	0.00	0.00	0.00	6.00	10524.59
3	59.20	0.00	0.00	0.00	9.04	10574.75
4	38.07	0.00	0.00	0.00	9.08	10603.74
5	30.25	0.00	0.00	0.00	8.28	10625.71
6	32.22	0.00	0.00	0.00	9.13	10648.80
7	31.40	0.00	0.00	0.00	1.38	10678.82
8	29.87	0.00	0.00	0.00	3.06	10705.63
9	31.85	0.00	0.00	0.00	8.65	10728.83
10	34.63	0.00	0.00	0.00	4.76	10758.70
11	34.79	0.00	0.00	0.00	4.78	10788.71
12	35.61	0.00	0.00	0.00	4.80	10819.52
13	36.78	0.00	0.00	0.00	8.81	10847.49
14	37.21	0.00	0.00	0.00	13.40	10871.30
15	60.22	0.00	0.00	0.00	9.72	10921.80
16	71.71	0.00	0.00	0.00	18.66	10974.85
17	65.70	0.00	0.00	0.00	11.56	11028.99
18	55.86	0.00	0.00	0.00	11.90	11072.95
19	41.14	0.00	0.00	0.00	11.96	11102.13
20	35.04	0.00	0.00	0.00	1.46	11135.71
21	50.95	0.00	0.00	0.00	0.59	11186.07
22	58.00	0.00	0.00	0.00	11.27	11232.80
23	65.70	0.00	0.00	0.00	0.90	11297.60
24	55.70	0.00	0.00	0.00	10.76	11342.54
25	49.11	0.00	0.00	0.00	10.81	11380.84
26	64.98	0.00	0.00	0.00	10.55	11435.27
27	55.07	0.00	0.00	0.00	10.61	11479.73
28	38.43	0.00	0.00	0.00	12.17	11505.99
29	37.65	0.00	0.00	0.00	8.55	11535.09
30	40.94	0.00	0.00	0.00	6.44	11569.59
31	46.10	0.00	0.00	0.00	11.70	11603.99
	1416.41	0.00	0.00	0.00	253.51	

OffsetAccount-Consumable Downstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						8543.52
1	46.05	0.00	0.00	0.00	2.23	8587.34
2	46.18	0.00	0.00	0.00	4.91	8628.61
3	59.20	0.00	0.00	0.00	7.41	8680.40
4	38.07	0.00	0.00	0.00	7.45	8711.02
5	30.25	0.00	0.00	0.00	6.80	8734.47
6	32.22	0.00	0.00	0.00	7.50	8759.19
7	31.40	0.00	0.00	0.00	1.14	8789.45
8	29.87	0.00	0.00	0.00	2.52	8816.80
9	31.85	0.00	0.00	0.00	7.13	8841.52
10	34.63	0.00	0.00	0.00	3.92	8872.23
11	34.79	0.00	0.00	0.00	3.94	8903.08
12	35.61	0.00	0.00	0.00	3.96	8934.73
13	36.78	0.00	0.00	0.00	7.27	8964.24
14	37.21	0.00	0.00	0.00	11.07	8990.38
15	60.22	0.00	0.00	0.00	8.04	9042.56
16	71.71	0.00	0.00	0.00	15.45	9098.82
17	65.70	0.00	0.00	0.00	9.58	9154.94
18	55.86	0.00	0.00	0.00	9.88	9200.92
19	41.14	0.00	0.00	0.00	9.94	9232.12
20	35.04	0.00	0.00	0.00	1.22	9265.94
21	50.95	0.00	0.00	0.00	0.49	9316.40
22	58.00	0.00	0.00	0.00	9.38	9365.02
23	65.70	0.00	0.00	0.00	0.75	9429.97
24	55.70	0.00	0.00	0.00	8.98	9476.69
25	49.11	0.00	0.00	0.00	9.03	9516.77
26	64.98	0.00	0.00	0.00	8.82	9572.93
27	55.07	0.00	0.00	0.00	8.88	9619.12
28	38.43	0.00	0.00	0.00	10.20	9647.35
29	37.65	0.00	0.00	0.00	7.17	9677.83
30	40.94	0.00	0.00	0.00	5.40	9713.37
31	46.10	0.00	0.00	0.00	9.83	9749.64
	1416.41	0.00	0.00	0.00	210.29	

OffsetAccount-Consumable Kansas Charge

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						489.33
1	0.00	0.00	0.00	0.00	0.13	489.20
2	0.00	0.00	0.00	0.00	0.28	488.92
3	0.00	0.00	0.00	0.00	0.42	488.50
4	0.00	0.00	0.00	0.00	0.42	488.08
5	0.00	0.00	0.00	0.00	0.38	487.70
6	0.00	0.00	0.00	0.00	0.42	487.28
7	0.00	0.00	0.00	0.00	0.06	487.22
8	0.00	0.00	0.00	0.00	0.14	487.08
9	0.00	0.00	0.00	0.00	0.39	486.69
10	0.00	0.00	0.00	0.00	0.22	486.47
11	0.00	0.00	0.00	0.00	0.22	486.25
12	0.00	0.00	0.00	0.00	0.22	486.03
13	0.00	0.00	0.00	0.00	0.40	485.63
14	0.00	0.00	0.00	0.00	0.60	485.03
15	0.00	0.00	0.00	0.00	0.43	484.60
16	0.00	0.00	0.00	0.00	0.83	483.77
17	0.00	0.00	0.00	0.00	0.51	483.26
18	0.00	0.00	0.00	0.00	0.52	482.74
19	0.00	0.00	0.00	0.00	0.52	482.22
20	0.00	0.00	0.00	0.00	0.06	482.16
21	0.00	0.00	0.00	0.00	0.03	482.13
22	0.00	0.00	0.00	0.00	0.49	481.64
23	0.00	0.00	0.00	0.00	0.04	481.60
24	0.00	0.00	0.00	0.00	0.46	481.14
25	0.00	0.00	0.00	0.00	0.46	480.68
26	0.00	0.00	0.00	0.00	0.45	480.23
27	0.00	0.00	0.00	0.00	0.45	479.78
28	0.00	0.00	0.00	0.00	0.51	479.27
29	0.00	0.00	0.00	0.00	0.36	478.91
30	0.00	0.00	0.00	0.00	0.27	478.64
31	0.00	0.00	0.00	0.00	0.48	478.16
	0.00	0.00	0.00	0.00	11.17	

OffsetAccount-ReturnFlow

Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						30.47
1	0.00	0.00	0.00	0.00	0.01	30.46
2	0.00	0.00	0.00	0.00	0.02	30.44
3	0.00	0.00	0.00	0.00	0.02	30.42
4	0.00	0.00	0.00	0.00	0.02	30.40
5	0.00	0.00	0.00	0.00	0.02	30.38
6	0.00	0.00	0.00	0.00	0.02	30.36
7	0.00	0.00	0.00	0.00	0.00	30.36
8	0.00	0.00	0.00	0.00	0.01	30.35
9	0.00	0.00	0.00	0.00	0.02	30.33
10	0.00	0.00	0.00	0.00	0.01	30.32
11	0.00	0.00	0.00	0.00	0.01	30.31
12	0.00	0.00	0.00	0.00	0.01	30.30
13	0.00	0.00	0.00	0.00	0.02	30.28
14	0.00	0.00	0.00	0.00	0.04	30.24
15	0.00	0.00	0.00	0.00	0.03	30.21
16	0.00	0.00	0.00	0.00	0.05	30.16
17	0.00	0.00	0.00	0.00	0.03	30.13
18	0.00	0.00	0.00	0.00	0.03	30.10
19	0.00	0.00	0.00	0.00	0.03	30.07
20	0.00	0.00	0.00	0.00	0.00	30.07
21	0.00	0.00	0.00	0.00	0.00	30.07
22	0.00	0.00	0.00	0.00	0.03	30.04
23	0.00	0.00	0.00	0.00	0.00	30.04
24	0.00	0.00	0.00	0.00	0.03	30.01
25	0.00	0.00	0.00	0.00	0.03	29.98
26	0.00	0.00	0.00	0.00	0.03	29.95
27	0.00	0.00	0.00	0.00	0.03	29.92
28	0.00	0.00	0.00	0.00	0.03	29.89
29	0.00	0.00	0.00	0.00	0.02	29.87
30	0.00	0.00	0.00	0.00	0.02	29.85
31	0.00	0.00	0.00	0.00	0.03	29.82
	0.00	0.00	0.00	0.00	0.65	

OffsetAccount-ReturnFlow

RF Transit Loss

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						28.76
1	0.00	0.00	0.00	0.00	0.01	28.75
2	0.00	0.00	0.00	0.00	0.02	28.73
3	0.00	0.00	0.00	0.00	0.02	28.71
4	0.00	0.00	0.00	0.00	0.02	28.69
5	0.00	0.00	0.00	0.00	0.02	28.67
6	0.00	0.00	0.00	0.00	0.02	28.65
7	0.00	0.00	0.00	0.00	0.00	28.65
8	0.00	0.00	0.00	0.00	0.01	28.64
9	0.00	0.00	0.00	0.00	0.02	28.62
10	0.00	0.00	0.00	0.00	0.01	28.61
11	0.00	0.00	0.00	0.00	0.01	28.60
12	0.00	0.00	0.00	0.00	0.01	28.59
13	0.00	0.00	0.00	0.00	0.02	28.57
14	0.00	0.00	0.00	0.00	0.04	28.53
15	0.00	0.00	0.00	0.00	0.03	28.50
16	0.00	0.00	0.00	0.00	0.05	28.45
17	0.00	0.00	0.00	0.00	0.03	28.42
18	0.00	0.00	0.00	0.00	0.03	28.39
19	0.00	0.00	0.00	0.00	0.03	28.36
20	0.00	0.00	0.00	0.00	0.00	28.36
21	0.00	0.00	0.00	0.00	0.00	28.36
22	0.00	0.00	0.00	0.00	0.03	28.33
23	0.00	0.00	0.00	0.00	0.00	28.33
24	0.00	0.00	0.00	0.00	0.03	28.30
25	0.00	0.00	0.00	0.00	0.03	28.27
26	0.00	0.00	0.00	0.00	0.03	28.24
27	0.00	0.00	0.00	0.00	0.03	28.21
28	0.00	0.00	0.00	0.00	0.03	28.18
29	0.00	0.00	0.00	0.00	0.02	28.16
30	0.00	0.00	0.00	0.00	0.02	28.14
31	0.00	0.00	0.00	0.00	0.03	28.11
	0.00	0.00	0.00	0.00	0.65	

OffsetAccount-ReturnFlow

Return Flow

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						1.71
1	0.00	0.00	0.00	0.00	0.00	1.71
2	0.00	0.00	0.00	0.00	0.00	1.71
3	0.00	0.00	0.00	0.00	0.00	1.71
4	0.00	0.00	0.00	0.00	0.00	1.71
5	0.00	0.00	0.00	0.00	0.00	1.71
6	0.00	0.00	0.00	0.00	0.00	1.71
7	0.00	0.00	0.00	0.00	0.00	1.71
8	0.00	0.00	0.00	0.00	0.00	1.71
9	0.00	0.00	0.00	0.00	0.00	1.71
10	0.00	0.00	0.00	0.00	0.00	1.71
11	0.00	0.00	0.00	0.00	0.00	1.71
12	0.00	0.00	0.00	0.00	0.00	1.71
13	0.00	0.00	0.00	0.00	0.00	1.71
14	0.00	0.00	0.00	0.00	0.00	1.71
15	0.00	0.00	0.00	0.00	0.00	1.71
16	0.00	0.00	0.00	0.00	0.00	1.71
17	0.00	0.00	0.00	0.00	0.00	1.71
18	0.00	0.00	0.00	0.00	0.00	1.71
19	0.00	0.00	0.00	0.00	0.00	1.71
20	0.00	0.00	0.00	0.00	0.00	1.71
21	0.00	0.00	0.00	0.00	0.00	1.71
22	0.00	0.00	0.00	0.00	0.00	1.71
23	0.00	0.00	0.00	0.00	0.00	1.71
24	0.00	0.00	0.00	0.00	0.00	1.71
25	0.00	0.00	0.00	0.00	0.00	1.71
26	0.00	0.00	0.00	0.00	0.00	1.71
27	0.00	0.00	0.00	0.00	0.00	1.71
28	0.00	0.00	0.00	0.00	0.00	1.71
29	0.00	0.00	0.00	0.00	0.00	1.71
30	0.00	0.00	0.00	0.00	0.00	1.71
31	0.00	0.00	0.00	0.00	0.00	1.71
	0.00	0.00	0.00	0.00	0.00	

Offset Account — June 2019

OffsetAccount-Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						11633.81
1	72.73	0.00	0.00	0.00	11.82	11694.72
2	61.94	0.00	0.00	0.00	11.91	11744.75
3	46.23	0.00	0.00	0.00	6.62	11784.36
4	60.69	0.00	0.00	0.00	9.19	11835.86
5	48.87	0.00	0.00	0.00	9.55	11875.18
6	42.81	0.00	0.00	0.00	14.39	11903.60
7	52.67	0.00	0.00	0.00	12.20	11944.07
8	47.97	0.00	0.00	0.00	12.27	11979.77
9	47.13	0.00	0.00	0.00	12.32	12014.58
10	70.94	0.00	0.00	0.00	15.29	12070.23
11	74.09	0.00	0.00	0.00	12.10	12132.22
12	62.01	0.00	0.00	0.00	18.09	12176.14
13	91.15	0.00	0.00	0.00	11.58	12255.71
14	96.47	0.00	0.00	0.00	13.67	12338.51
15	62.66	0.00	0.00	0.00	13.71	12387.46
16	59.64	0.00	0.00	0.00	13.68	12433.42
17	85.99	0.00	0.00	0.00	13.02	12506.39
18	98.41	0.00	0.00	0.00	9.04	12595.76
19	75.83	0.00	0.00	0.00	11.36	12660.23
20	39.33	0.00	0.00	0.00	16.08	12683.48
21	52.38	0.00	0.00	0.00	13.76	12722.10
22	90.82	0.00	0.00	0.00	13.81	12799.11
23	76.01	0.00	0.00	0.00	14.20	12860.92
24	83.97	0.00	0.00	0.00	12.90	12931.99
25	82.24	0.00	0.00	0.00	16.71	12997.52
26	56.71	0.00	0.00	0.00	12.70	13041.53
27	63.59	0.00	0.00	0.00	21.76	13083.36
28	77.53	0.00	0.00	0.00	19.42	13141.47
29	53.51	0.00	0.00	0.00	19.75	13175.23
30	29.86	780.03	0.00	0.00	19.50	13965.62
	1964.18	780.03	0.00	0.00	412.40	

OffsetAccount-Consumable Upstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						1376.19
1	0.00	0.00	0.00	0.00	1.40	1374.79
2	0.00	0.00	0.00	0.00	1.40	1373.39
3	0.00	0.00	0.00	0.00	0.77	1372.62
4	0.00	0.00	0.00	0.00	1.07	1371.55
5	0.00	0.00	0.00	0.00	1.11	1370.44
6	0.00	0.00	0.00	0.00	1.66	1368.78
7	0.00	0.00	0.00	0.00	1.40	1367.38
8	0.00	0.00	0.00	0.00	1.40	1365.98
9	0.00	0.00	0.00	0.00	1.40	1364.58
10	0.00	0.00	0.00	0.00	1.74	1362.84
11	0.00	0.00	0.00	0.00	1.37	1361.47
12	0.00	0.00	0.00	0.00	2.03	1359.44
13	0.00	0.00	0.00	0.00	1.29	1358.15
14	0.00	0.00	0.00	0.00	1.51	1356.64
15	0.00	0.00	0.00	0.00	1.51	1355.13
16	0.00	0.00	0.00	0.00	1.50	1353.63
17	0.00	0.00	0.00	0.00	1.42	1352.21
18	0.00	0.00	0.00	0.00	0.98	1351.23
19	0.00	0.00	0.00	0.00	1.22	1350.01
20	0.00	0.00	0.00	0.00	1.71	1348.30
21	0.00	0.00	0.00	0.00	1.46	1346.84
22	0.00	0.00	0.00	0.00	1.46	1345.38
23	0.00	0.00	0.00	0.00	1.49	1343.89
24	0.00	0.00	0.00	0.00	1.35	1342.54
25	0.00	0.00	0.00	0.00	1.73	1340.81
26	0.00	0.00	0.00	0.00	1.31	1339.50
27	0.00	0.00	0.00	0.00	2.23	1337.27
28	0.00	0.00	0.00	0.00	1.99	1335.28
29	0.00	0.00	0.00	0.00	2.01	1333.27
30	0.00	0.00	0.00	0.00	1.98	1331.29
	0.00	0.00	0.00	0.00	44.90	

OffsetAccount-Consumable Kansas

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-Consumable Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						11603.99
1	72.73	0.00	0.00	0.00	11.79	11664.93
2	61.94	0.00	0.00	0.00	11.88	11714.99
3	46.23	0.00	0.00	0.00	6.60	11754.62
4	60.69	0.00	0.00	0.00	9.17	11806.14
5	48.87	0.00	0.00	0.00	9.53	11845.48
6	42.81	0.00	0.00	0.00	14.36	11873.93
7	52.67	0.00	0.00	0.00	12.17	11914.43
8	47.97	0.00	0.00	0.00	12.24	11950.16
9	47.13	0.00	0.00	0.00	12.29	11985.00
10	70.94	0.00	0.00	0.00	15.25	12040.69
11	74.09	0.00	0.00	0.00	12.07	12102.71
12	62.01	0.00	0.00	0.00	18.05	12146.67
13	91.15	0.00	0.00	0.00	11.55	12226.27
14	96.47	0.00	0.00	0.00	13.64	12309.10
15	62.66	0.00	0.00	0.00	13.68	12358.08
16	59.64	0.00	0.00	0.00	13.65	12404.07
17	85.99	0.00	0.00	0.00	12.99	12477.07
18	98.41	0.00	0.00	0.00	9.02	12566.46
19	75.83	0.00	0.00	0.00	11.34	12630.95
20	39.33	0.00	0.00	0.00	16.04	12654.24
21	52.38	0.00	0.00	0.00	13.73	12692.89
22	90.82	0.00	0.00	0.00	13.78	12769.93
23	76.01	0.00	0.00	0.00	14.17	12831.77
24	83.97	0.00	0.00	0.00	12.87	12902.87
25	82.24	0.00	0.00	0.00	16.67	12968.44
26	56.71	0.00	0.00	0.00	12.67	13012.48
27	63.59	0.00	0.00	0.00	21.71	13054.36
28	77.53	0.00	0.00	0.00	19.38	13112.51
29	53.51	0.00	0.00	0.00	19.71	13146.31
30	29.86	500.00	0.00	0.00	19.46	13656.71
	1964.18	500.00	0.00	0.00	411.46	

OffsetAccount-Consumable Downstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						9749.64
1	72.73	0.00	0.00	0.00	9.90	9812.47
2	61.94	0.00	0.00	0.00	9.99	9864.42
3	46.23	0.00	0.00	0.00	5.56	9905.09
4	60.69	0.00	0.00	0.00	7.73	9958.05
5	48.87	0.00	0.00	0.00	8.04	9998.88
6	42.81	0.00	0.00	0.00	12.12	10029.57
7	52.67	0.00	0.00	0.00	10.28	10071.96
8	47.97	0.00	0.00	0.00	10.35	10109.58
9	47.13	0.00	0.00	0.00	10.40	10146.31
10	70.94	0.00	0.00	0.00	12.91	10204.34
11	74.09	0.00	0.00	0.00	10.23	10268.20
12	62.01	0.00	0.00	0.00	15.31	10314.90
13	91.15	0.00	0.00	0.00	9.81	10396.24
14	96.47	0.00	0.00	0.00	11.60	10481.11
15	62.66	0.00	0.00	0.00	11.65	10532.12
16	59.64	0.00	0.00	0.00	11.63	10580.13
17	85.99	0.00	0.00	0.00	11.08	10655.04
18	98.41	0.00	0.00	0.00	7.70	10745.75
19	75.83	0.00	0.00	0.00	9.70	10811.88
20	39.33	0.00	0.00	0.00	13.73	10837.48
21	52.38	0.00	0.00	0.00	11.76	10878.10
22	90.82	0.00	0.00	0.00	11.81	10957.11
23	76.01	0.00	0.00	0.00	12.16	11020.96
24	83.97	0.00	0.00	0.00	11.05	11093.88
25	82.24	0.00	0.00	0.00	14.34	11161.78
26	56.71	0.00	0.00	0.00	10.90	11207.59
27	63.59	0.00	0.00	0.00	18.70	11252.48
28	77.53	0.00	0.00	0.00	16.70	11313.31
29	53.51	0.00	0.00	0.00	17.00	11349.82
30	29.86	500.00	0.00	0.00	16.79	11862.89
	1964.18	500.00	0.00	0.00	350.93	

OffsetAccount-Consumable Kansas Charge

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						478.16
1	0.00	0.00	0.00	0.00	0.49	477.67
2	0.00	0.00	0.00	0.00	0.49	477.18
3	0.00	0.00	0.00	0.00	0.27	476.91
4	0.00	0.00	0.00	0.00	0.37	476.54
5	0.00	0.00	0.00	0.00	0.38	476.16
6	0.00	0.00	0.00	0.00	0.58	475.58
7	0.00	0.00	0.00	0.00	0.49	475.09
8	0.00	0.00	0.00	0.00	0.49	474.60
9	0.00	0.00	0.00	0.00	0.49	474.11
10	0.00	0.00	0.00	0.00	0.60	473.51
11	0.00	0.00	0.00	0.00	0.47	473.04
12	0.00	0.00	0.00	0.00	0.71	472.33
13	0.00	0.00	0.00	0.00	0.45	471.88
14	0.00	0.00	0.00	0.00	0.53	471.35
15	0.00	0.00	0.00	0.00	0.52	470.83
16	0.00	0.00	0.00	0.00	0.52	470.31
17	0.00	0.00	0.00	0.00	0.49	469.82
18	0.00	0.00	0.00	0.00	0.34	469.48
19	0.00	0.00	0.00	0.00	0.42	469.06
20	0.00	0.00	0.00	0.00	0.60	468.46
21	0.00	0.00	0.00	0.00	0.51	467.95
22	0.00	0.00	0.00	0.00	0.51	467.44
23	0.00	0.00	0.00	0.00	0.52	466.92
24	0.00	0.00	0.00	0.00	0.47	466.45
25	0.00	0.00	0.00	0.00	0.60	465.85
26	0.00	0.00	0.00	0.00	0.46	465.39
27	0.00	0.00	0.00	0.00	0.78	464.61
28	0.00	0.00	0.00	0.00	0.69	463.92
29	0.00	0.00	0.00	0.00	0.70	463.22
30	0.00	0.00	0.00	0.00	0.69	462.53
	0.00	0.00	0.00	0.00	15.63	

OffsetAccount-ReturnFlow

Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						29.82
1	0.00	0.00	0.00	0.00	0.03	29.79
2	0.00	0.00	0.00	0.00	0.03	29.76
3	0.00	0.00	0.00	0.00	0.02	29.74
4	0.00	0.00	0.00	0.00	0.02	29.72
5	0.00	0.00	0.00	0.00	0.02	29.70
6	0.00	0.00	0.00	0.00	0.03	29.67
7	0.00	0.00	0.00	0.00	0.03	29.64
8	0.00	0.00	0.00	0.00	0.03	29.61
9	0.00	0.00	0.00	0.00	0.03	29.58
10	0.00	0.00	0.00	0.00	0.04	29.54
11	0.00	0.00	0.00	0.00	0.03	29.51
12	0.00	0.00	0.00	0.00	0.04	29.47
13	0.00	0.00	0.00	0.00	0.03	29.44
14	0.00	0.00	0.00	0.00	0.03	29.41
15	0.00	0.00	0.00	0.00	0.03	29.38
16	0.00	0.00	0.00	0.00	0.03	29.35
17	0.00	0.00	0.00	0.00	0.03	29.32
18	0.00	0.00	0.00	0.00	0.02	29.30
19	0.00	0.00	0.00	0.00	0.02	29.28
20	0.00	0.00	0.00	0.00	0.04	29.24
21	0.00	0.00	0.00	0.00	0.03	29.21
22	0.00	0.00	0.00	0.00	0.03	29.18
23	0.00	0.00	0.00	0.00	0.03	29.15
24	0.00	0.00	0.00	0.00	0.03	29.12
25	0.00	0.00	0.00	0.00	0.04	29.08
26	0.00	0.00	0.00	0.00	0.03	29.05
27	0.00	0.00	0.00	0.00	0.05	29.00
28	0.00	0.00	0.00	0.00	0.04	28.96
29	0.00	0.00	0.00	0.00	0.04	28.92
30	0.00	280.03	0.00	0.00	0.04	308.91
	0.00	280.03	0.00	0.00	0.94	

OffsetAccount-ReturnFlow

RF Transit Loss

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						28.11
1	0.00	0.00	0.00	0.00	0.03	28.08
2	0.00	0.00	0.00	0.00	0.03	28.05
3	0.00	0.00	0.00	0.00	0.02	28.03
4	0.00	0.00	0.00	0.00	0.02	28.01
5	0.00	0.00	0.00	0.00	0.02	27.99
6	0.00	0.00	0.00	0.00	0.03	27.96
7	0.00	0.00	0.00	0.00	0.03	27.93
8	0.00	0.00	0.00	0.00	0.03	27.90
9	0.00	0.00	0.00	0.00	0.03	27.87
10	0.00	0.00	0.00	0.00	0.04	27.83
11	0.00	0.00	0.00	0.00	0.03	27.80
12	0.00	0.00	0.00	0.00	0.04	27.76
13	0.00	0.00	0.00	0.00	0.03	27.73
14	0.00	0.00	0.00	0.00	0.03	27.70
15	0.00	0.00	0.00	0.00	0.03	27.67
16	0.00	0.00	0.00	0.00	0.03	27.64
17	0.00	0.00	0.00	0.00	0.03	27.61
18	0.00	0.00	0.00	0.00	0.02	27.59
19	0.00	0.00	0.00	0.00	0.02	27.57
20	0.00	0.00	0.00	0.00	0.04	27.53
21	0.00	0.00	0.00	0.00	0.03	27.50
22	0.00	0.00	0.00	0.00	0.03	27.47
23	0.00	0.00	0.00	0.00	0.03	27.44
24	0.00	0.00	0.00	0.00	0.03	27.41
25	0.00	0.00	0.00	0.00	0.04	27.37
26	0.00	0.00	0.00	0.00	0.03	27.34
27	0.00	0.00	0.00	0.00	0.05	27.29
28	0.00	0.00	0.00	0.00	0.04	27.25
29	0.00	0.00	0.00	0.00	0.04	27.21
30	0.00	39.00	0.00	0.00	0.04	66.17
	0.00	39.00	0.00	0.00	0.94	

OffsetAccount-ReturnFlow

Return Flow

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						1.71
1	0.00	0.00	0.00	0.00	0.00	1.71
2	0.00	0.00	0.00	0.00	0.00	1.71
3	0.00	0.00	0.00	0.00	0.00	1.71
4	0.00	0.00	0.00	0.00	0.00	1.71
5	0.00	0.00	0.00	0.00	0.00	1.71
6	0.00	0.00	0.00	0.00	0.00	1.71
7	0.00	0.00	0.00	0.00	0.00	1.71
8	0.00	0.00	0.00	0.00	0.00	1.71
9	0.00	0.00	0.00	0.00	0.00	1.71
10	0.00	0.00	0.00	0.00	0.00	1.71
11	0.00	0.00	0.00	0.00	0.00	1.71
12	0.00	0.00	0.00	0.00	0.00	1.71
13	0.00	0.00	0.00	0.00	0.00	1.71
14	0.00	0.00	0.00	0.00	0.00	1.71
15	0.00	0.00	0.00	0.00	0.00	1.71
16	0.00	0.00	0.00	0.00	0.00	1.71
17	0.00	0.00	0.00	0.00	0.00	1.71
18	0.00	0.00	0.00	0.00	0.00	1.71
19	0.00	0.00	0.00	0.00	0.00	1.71
20	0.00	0.00	0.00	0.00	0.00	1.71
21	0.00	0.00	0.00	0.00	0.00	1.71
22	0.00	0.00	0.00	0.00	0.00	1.71
23	0.00	0.00	0.00	0.00	0.00	1.71
24	0.00	0.00	0.00	0.00	0.00	1.71
25	0.00	0.00	0.00	0.00	0.00	1.71
26	0.00	0.00	0.00	0.00	0.00	1.71
27	0.00	0.00	0.00	0.00	0.00	1.71
28	0.00	0.00	0.00	0.00	0.00	1.71
29	0.00	0.00	0.00	0.00	0.00	1.71
30	0.00	241.03	0.00	0.00	0.00	242.74
	0.00	241.03	0.00	0.00	0.00	

OffsetAccount-Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						13965.62
1	54.00	0.00	0.00	0.00	3.71	14015.91
2	55.51	0.00	0.00	0.00	11.98	14059.44
3	75.94	0.00	0.00	0.00	19.59	14115.79
4	649.33	0.00	0.00	0.00	19.67	14745.45
5	646.26	0.00	0.00	0.00	12.57	15379.14
6	82.68	0.00	0.00	0.00	13.02	15448.80
7	55.65	0.00	0.00	0.00	13.07	15491.38
8	56.35	0.00	0.00	0.00	15.95	15531.78
9	74.50	0.00	0.00	198.35	18.06	15389.87
10	67.46	0.00	0.00	198.35	18.69	15240.29
11	44.10	0.00	0.00	198.35	18.09	15067.95
12	59.45	0.00	0.00	198.35	23.81	14905.24
13	63.09	0.00	0.00	198.35	23.52	14746.46
14	63.49	0.00	0.00	198.35	23.32	14588.28
15	46.72	0.00	0.00	198.35	17.81	14418.84
16	46.06	0.00	0.00	198.35	14.63	14251.92
17	54.03	0.00	0.00	198.35	25.28	14082.32
18	31.44	0.00	0.00	198.35	20.57	13894.84
19	17.77	0.00	0.00	198.35	18.92	13695.34
20	20.53	0.00	0.00	198.35	18.77	13498.75
21	35.71	0.00	0.00	198.35	18.97	13317.14
22	47.43	0.00	0.00	198.35	11.44	13154.78
23	46.74	0.00	0.00	198.35	16.16	12987.01
24	34.69	0.00	0.00	198.35	14.59	12808.76
25	26.39	0.00	0.00	198.35	20.84	12615.96
26	37.64	0.00	0.00	198.35	14.13	12441.12
27	41.81	0.00	0.00	198.35	14.23	12270.35
28	64.81	0.00	0.00	198.35	14.07	12122.74
29	43.95	0.00	0.00	198.35	15.01	11953.33
30	28.11	0.00	0.00	198.35	19.94	11763.15
31	40.55	0.00	0.00	198.35	12.37	11592.98
	2712.19	0.00	0.00	4562.05	522.78	

OffsetAccount-Consumable Upstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						1331.29
1	0.00	0.00	0.00	0.00	0.35	1330.94
2	0.00	0.00	0.00	0.00	1.14	1329.80
3	24.09	0.00	0.00	0.00	1.85	1352.04
4	578.13	0.00	0.00	0.00	1.88	1928.29
5	554.04	0.00	0.00	0.00	1.64	2480.69
6	0.00	0.00	0.00	0.00	2.10	2478.59
7	0.00	0.00	0.00	0.00	2.10	2476.49
8	0.00	0.00	0.00	0.00	2.55	2473.94
9	0.00	0.00	0.00	0.00	2.88	2471.06
10	0.00	0.00	0.00	0.00	3.00	2468.06
11	0.00	0.00	0.00	0.00	2.93	2465.13
12	0.00	0.00	0.00	0.00	3.90	2461.23
13	0.00	0.00	0.00	0.00	3.89	2457.34
14	0.00	0.00	0.00	0.00	3.89	2453.45
15	0.00	0.00	0.00	0.00	3.00	2450.45
16	0.00	0.00	0.00	0.00	2.49	2447.96
17	0.00	0.00	0.00	0.00	4.34	2443.62
18	0.00	0.00	0.00	0.00	3.57	2440.05
19	0.00	0.00	0.00	0.00	3.32	2436.73
20	0.00	0.00	0.00	0.00	3.34	2433.39
21	0.00	0.00	0.00	0.00	3.42	2429.97
22	0.00	0.00	0.00	0.00	2.09	2427.88
23	0.00	0.00	0.00	0.00	2.99	2424.89
24	0.00	0.00	0.00	0.00	2.73	2422.16
25	0.00	0.00	0.00	0.00	3.95	2418.21
26	0.00	0.00	0.00	0.00	2.71	2415.50
27	0.00	0.00	0.00	0.00	2.77	2412.73
28	0.00	0.00	0.00	0.00	2.77	2409.96
29	0.00	0.00	0.00	0.00	2.99	2406.97
30	0.00	0.00	0.00	0.00	4.02	2402.95
31	0.00	0.00	0.00	0.00	2.53	2400.42
	1156.26	0.00	0.00	0.00	87.13	

OffsetAccount-Consumable Kansas

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-Consumable Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						13656.71
1	54.00	0.00	0.00	0.00	3.63	13707.08
2	55.51	0.00	0.00	0.00	11.71	13750.88
3	75.94	0.00	0.00	0.00	19.16	13807.66
4	649.33	0.00	0.00	0.00	19.24	14437.75
5	646.26	0.00	0.00	0.00	12.30	15071.71
6	82.68	0.00	0.00	0.00	12.76	15141.63
7	55.65	0.00	0.00	0.00	12.81	15184.47
8	56.35	0.00	0.00	0.00	15.63	15225.19
9	74.50	0.00	0.00	198.35	17.70	15083.64
10	67.46	0.00	0.00	198.35	18.32	14934.43
11	44.10	0.00	0.00	61.48	17.72	14899.33
12	59.45	0.00	0.00	95.31	23.55	14839.92
13	63.09	0.00	0.00	198.35	23.42	14681.24
14	63.49	0.00	0.00	198.35	23.22	14523.16
15	46.72	0.00	0.00	198.35	17.73	14353.80
16	46.06	0.00	0.00	198.35	14.56	14186.95
17	54.03	0.00	0.00	198.35	25.16	14017.47
18	31.44	0.00	0.00	198.35	20.48	13830.08
19	17.77	0.00	0.00	198.35	18.83	13630.67
20	20.53	0.00	0.00	198.35	18.68	13434.17
21	35.71	0.00	0.00	198.35	18.88	13252.65
22	47.43	0.00	0.00	198.35	11.38	13090.35
23	46.74	0.00	0.00	198.35	16.08	12922.66
24	34.69	0.00	0.00	198.35	14.52	12744.48
25	26.39	0.00	0.00	198.35	20.74	12551.78
26	37.64	0.00	0.00	198.35	14.06	12377.01
27	41.81	0.00	0.00	198.35	14.16	12206.31
28	64.81	0.00	0.00	198.35	14.00	12058.77
29	43.95	0.00	0.00	198.35	14.93	11889.44
30	28.11	0.00	0.00	198.35	19.83	11699.37
31	40.55	0.00	0.00	198.35	12.30	11529.27
	2712.19	0.00	0.00	4322.14	517.49	

OffsetAccount-Consumable Downstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						11862.89
1	54.00	0.00	0.00	0.00	3.16	11913.73
2	55.51	0.00	0.00	0.00	10.18	11959.06
3	51.85	0.00	0.00	0.00	16.67	11994.24
4	71.20	0.00	0.00	0.00	16.72	12048.72
5	92.22	0.00	0.00	0.00	10.27	12130.67
6	82.68	0.00	0.00	0.00	10.27	12203.08
7	55.65	0.00	0.00	0.00	10.32	12248.41
8	56.35	0.00	0.00	0.00	12.61	12292.15
9	74.50	0.00	0.00	0.00	14.29	12352.36
10	67.46	0.00	0.00	0.00	15.00	12404.82
11	44.10	0.00	0.00	0.00	14.72	12434.20
12	59.45	0.00	0.00	95.31	19.65	12378.69
13	63.09	0.00	0.00	198.35	19.53	12223.90
14	63.49	0.00	0.00	198.35	19.33	12069.71
15	46.72	0.00	0.00	198.35	14.73	11903.35
16	46.06	0.00	0.00	198.35	12.07	11738.99
17	54.03	0.00	0.00	198.35	20.82	11573.85
18	31.44	0.00	0.00	198.35	16.91	11390.03
19	17.77	0.00	0.00	198.35	15.51	11193.94
20	20.53	0.00	0.00	198.35	15.34	11000.78
21	35.71	0.00	0.00	198.35	15.46	10822.68
22	47.43	0.00	0.00	198.35	9.29	10662.47
23	46.74	0.00	0.00	198.35	13.09	10497.77
24	34.69	0.00	0.00	198.35	11.79	10322.32
25	26.39	0.00	0.00	198.35	16.79	10133.57
26	37.64	0.00	0.00	198.35	11.35	9961.51
27	41.81	0.00	0.00	198.35	11.39	9793.58
28	64.81	0.00	0.00	198.35	11.23	9648.81
29	43.95	0.00	0.00	198.35	11.94	9482.47
30	28.11	0.00	0.00	198.35	15.81	9296.42
31	40.55	0.00	0.00	198.35	9.77	9128.85
	1555.93	0.00	0.00	3863.96	426.01	

OffsetAccount-Consumable Kansas Charge

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						462.53
1	0.00	0.00	0.00	0.00	0.12	462.41
2	0.00	0.00	0.00	0.00	0.39	462.02
3	0.00	0.00	0.00	0.00	0.64	461.38
4	0.00	0.00	0.00	0.00	0.64	460.74
5	0.00	0.00	0.00	0.00	0.39	460.35
6	0.00	0.00	0.00	0.00	0.39	459.96
7	0.00	0.00	0.00	0.00	0.39	459.57
8	0.00	0.00	0.00	0.00	0.47	459.10
9	0.00	0.00	0.00	198.35	0.53	260.22
10	0.00	0.00	0.00	198.35	0.32	61.55
11	0.00	0.00	0.00	61.48	0.07	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	458.18	4.35	

OffsetAccount-ReturnFlow

Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						308.91
1	0.00	0.00	0.00	0.00	0.08	308.83
2	0.00	0.00	0.00	0.00	0.27	308.56
3	0.00	0.00	0.00	0.00	0.43	308.13
4	0.00	0.00	0.00	0.00	0.43	307.70
5	0.00	0.00	0.00	0.00	0.27	307.43
6	0.00	0.00	0.00	0.00	0.26	307.17
7	0.00	0.00	0.00	0.00	0.26	306.91
8	0.00	0.00	0.00	0.00	0.32	306.59
9	0.00	0.00	0.00	0.00	0.36	306.23
10	0.00	0.00	0.00	0.00	0.37	305.86
11	0.00	0.00	0.00	136.87	0.37	168.62
12	0.00	0.00	0.00	103.04	0.26	65.32
13	0.00	0.00	0.00	0.00	0.10	65.22
14	0.00	0.00	0.00	0.00	0.10	65.12
15	0.00	0.00	0.00	0.00	0.08	65.04
16	0.00	0.00	0.00	0.00	0.07	64.97
17	0.00	0.00	0.00	0.00	0.12	64.85
18	0.00	0.00	0.00	0.00	0.09	64.76
19	0.00	0.00	0.00	0.00	0.09	64.67
20	0.00	0.00	0.00	0.00	0.09	64.58
21	0.00	0.00	0.00	0.00	0.09	64.49
22	0.00	0.00	0.00	0.00	0.06	64.43
23	0.00	0.00	0.00	0.00	0.08	64.35
24	0.00	0.00	0.00	0.00	0.07	64.28
25	0.00	0.00	0.00	0.00	0.10	64.18
26	0.00	0.00	0.00	0.00	0.07	64.11
27	0.00	0.00	0.00	0.00	0.07	64.04
28	0.00	0.00	0.00	0.00	0.07	63.97
29	0.00	0.00	0.00	0.00	0.08	63.89
30	0.00	0.00	0.00	0.00	0.11	63.78
31	0.00	0.00	0.00	0.00	0.07	63.71
	0.00	0.00	0.00	239.91	5.29	

OffsetAccount-ReturnFlow

RF Transit Loss

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						66.17
1	0.00	0.00	0.00	0.00	0.02	66.15
2	0.00	0.00	0.00	0.00	0.06	66.09
3	0.00	0.00	0.00	0.00	0.09	66.00
4	0.00	0.00	0.00	0.00	0.09	65.91
5	0.00	0.00	0.00	0.00	0.06	65.85
6	0.00	0.00	0.00	0.00	0.06	65.79
7	0.00	0.00	0.00	0.00	0.06	65.73
8	0.00	0.00	0.00	0.00	0.07	65.66
9	0.00	0.00	0.00	0.00	0.08	65.58
10	0.00	0.00	0.00	0.00	0.08	65.50
11	0.00	0.00	0.00	0.00	0.08	65.42
12	0.00	0.00	0.00	0.00	0.10	65.32
13	0.00	0.00	0.00	0.00	0.10	65.22
14	0.00	0.00	0.00	0.00	0.10	65.12
15	0.00	0.00	0.00	0.00	0.08	65.04
16	0.00	0.00	0.00	0.00	0.07	64.97
17	0.00	0.00	0.00	0.00	0.12	64.85
18	0.00	0.00	0.00	0.00	0.09	64.76
19	0.00	0.00	0.00	0.00	0.09	64.67
20	0.00	0.00	0.00	0.00	0.09	64.58
21	0.00	0.00	0.00	0.00	0.09	64.49
22	0.00	0.00	0.00	0.00	0.06	64.43
23	0.00	0.00	0.00	0.00	0.08	64.35
24	0.00	0.00	0.00	0.00	0.07	64.28
25	0.00	0.00	0.00	0.00	0.10	64.18
26	0.00	0.00	0.00	0.00	0.07	64.11
27	0.00	0.00	0.00	0.00	0.07	64.04
28	0.00	0.00	0.00	0.00	0.07	63.97
29	0.00	0.00	0.00	0.00	0.08	63.89
30	0.00	0.00	0.00	0.00	0.11	63.78
31	0.00	0.00	0.00	0.00	0.07	63.71
	0.00	0.00	0.00	0.00	2.46	

OffsetAccount-ReturnFlow

Return Flow

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						242.74
1	0.00	0.00	0.00	0.00	0.06	242.68
2	0.00	0.00	0.00	0.00	0.21	242.47
3	0.00	0.00	0.00	0.00	0.34	242.13
4	0.00	0.00	0.00	0.00	0.34	241.79
5	0.00	0.00	0.00	0.00	0.21	241.58
6	0.00	0.00	0.00	0.00	0.20	241.38
7	0.00	0.00	0.00	0.00	0.20	241.18
8	0.00	0.00	0.00	0.00	0.25	240.93
9	0.00	0.00	0.00	0.00	0.28	240.65
10	0.00	0.00	0.00	0.00	0.29	240.36
11	0.00	0.00	0.00	136.87	0.29	103.20
12	0.00	0.00	0.00	103.04	0.16	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	239.91	2.83	

OffsetAccount-Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						11592.98
1	66.30	0.00	0.00	198.35	10.90	11450.03
2	54.07	0.00	0.00	198.35	15.72	11290.03
3	35.35	0.00	0.00	198.35	15.53	11111.50
4	22.26	0.00	0.00	198.35	15.66	10919.75
5	22.70	0.00	0.00	198.35	12.61	10731.49
6	45.32	0.00	0.00	198.35	12.14	10566.32
7	35.72	0.00	0.00	198.35	16.33	10387.36
8	61.47	0.00	0.00	198.35	14.00	10236.48
9	62.02	0.00	0.00	136.37	7.54	10154.59
10	38.69	0.00	0.00	119.01	7.49	10066.78
11	36.22	0.00	0.00	119.01	7.43	9976.56
12	37.16	0.00	0.00	99.18	11.16	9903.38
13	44.85	0.00	0.00	119.01	16.53	9812.69
14	63.65	0.00	0.00	119.01	10.35	9746.98
15	42.62	0.00	0.00	119.01	13.17	9657.42
16	40.73	0.00	0.00	119.01	9.13	9570.01
17	61.54	0.00	0.00	119.01	9.09	9503.45
18	46.99	0.00	0.00	119.01	8.79	9422.64
19	12.61	0.00	0.00	119.01	13.25	9302.99
20	23.40	0.00	0.00	119.01	9.79	9197.59
21	20.16	0.00	0.00	119.01	9.16	9089.58
22	14.70	0.00	0.00	119.01	11.57	8973.70
23	9.59	0.00	0.00	119.01	10.40	8853.88
24	17.82	0.00	0.00	119.01	10.33	8742.36
25	40.49	0.00	0.00	119.01	10.25	8653.59
26	33.30	0.00	0.00	107.44	9.14	8570.31
27	12.47	0.00	0.00	99.18	9.89	8473.71
28	20.42	0.00	0.00	99.18	8.74	8386.21
29	18.50	0.00	0.00	99.18	11.04	8294.49
30	8.89	0.00	0.00	99.18	9.88	8194.32
31	1.06	0.00	0.00	99.18	9.25	8086.95
	1051.07	0.00	0.00	4210.84	346.26	

OffsetAccount-Consumable Upstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						2400.42
1	0.00	0.00	0.00	0.00	2.26	2398.16
2	0.00	0.00	0.00	0.00	3.29	2394.87
3	0.00	0.00	0.00	0.00	3.29	2391.58
4	0.00	0.00	0.00	0.00	3.37	2388.21
5	0.00	0.00	0.00	0.00	2.76	2385.45
6	0.00	0.00	0.00	0.00	2.70	2382.75
7	0.00	0.00	0.00	0.00	3.68	2379.07
8	0.00	0.00	0.00	0.00	3.21	2375.86
9	0.00	0.00	0.00	0.00	1.75	2374.11
10	0.00	0.00	0.00	0.00	1.75	2372.36
11	0.00	0.00	0.00	0.00	1.75	2370.61
12	0.00	0.00	0.00	0.00	2.65	2367.96
13	0.00	0.00	0.00	0.00	3.95	2364.01
14	0.00	0.00	0.00	0.00	2.49	2361.52
15	0.00	0.00	0.00	0.00	3.19	2358.33
16	0.00	0.00	0.00	0.00	2.23	2356.10
17	0.00	0.00	0.00	0.00	2.24	2353.86
18	0.00	0.00	0.00	0.00	2.18	2351.68
19	0.00	0.00	0.00	0.00	3.31	2348.37
20	0.00	0.00	0.00	0.00	2.47	2345.90
21	0.00	0.00	0.00	0.00	2.34	2343.56
22	0.00	0.00	0.00	0.00	2.98	2340.58
23	0.00	0.00	0.00	0.00	2.71	2337.87
24	0.00	0.00	0.00	0.00	2.73	2335.14
25	0.00	0.00	0.00	0.00	2.74	2332.40
26	0.00	0.00	0.00	0.00	2.46	2329.94
27	0.00	0.00	0.00	0.00	2.69	2327.25
28	0.00	0.00	0.00	0.00	2.40	2324.85
29	0.00	0.00	0.00	0.00	3.06	2321.79
30	0.00	0.00	0.00	0.00	2.77	2319.02
31	0.00	0.00	0.00	0.00	2.62	2316.40
	0.00	0.00	0.00	0.00	84.02	

OffsetAccount-Consumable Kansas

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-Consumable Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						11529.27
1	66.30	0.00	0.00	198.35	10.84	11386.38
2	54.07	0.00	0.00	198.35	15.63	11226.47
3	35.35	0.00	0.00	198.35	15.44	11048.03
4	22.26	0.00	0.00	198.35	15.57	10856.37
5	22.70	0.00	0.00	198.35	12.54	10668.18
6	45.32	0.00	0.00	198.35	12.07	10503.08
7	35.72	0.00	0.00	198.35	16.23	10324.22
8	61.47	0.00	0.00	198.35	13.91	10173.43
9	62.02	0.00	0.00	136.37	7.49	10091.59
10	38.69	0.00	0.00	119.01	7.44	10003.83
11	36.22	0.00	0.00	119.01	7.38	9913.66
12	37.16	0.00	0.00	99.18	11.09	9840.55
13	44.85	0.00	0.00	119.01	16.43	9749.96
14	63.65	0.00	0.00	119.01	10.28	9684.32
15	42.62	0.00	0.00	119.01	13.09	9594.84
16	40.73	0.00	0.00	119.01	9.07	9507.49
17	61.54	0.00	0.00	119.01	9.03	9440.99
18	46.99	0.00	0.00	119.01	8.73	9360.24
19	12.61	0.00	0.00	119.01	13.16	9240.68
20	23.40	0.00	0.00	119.01	9.72	9135.35
21	20.16	0.00	0.00	119.01	9.10	9027.40
22	14.70	0.00	0.00	119.01	11.49	8911.60
23	9.59	0.00	0.00	119.01	10.33	8791.85
24	17.82	0.00	0.00	119.01	10.26	8680.40
25	40.49	0.00	0.00	119.01	10.18	8591.70
26	33.30	0.00	0.00	107.44	9.07	8508.49
27	12.47	0.00	0.00	99.18	9.82	8411.96
28	20.42	0.00	0.00	99.18	8.68	8324.52
29	18.50	0.00	0.00	99.18	10.96	8232.88
30	8.89	0.00	0.00	99.18	9.81	8132.78
31	1.06	0.00	0.00	99.18	9.18	8025.48
	1051.07	0.00	0.00	4210.84	344.02	

OffsetAccount-Consumable Downstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						9128.85
1	66.30	0.00	0.00	198.35	8.58	8988.22
2	54.07	0.00	0.00	198.35	12.34	8831.60
3	35.35	0.00	0.00	198.35	12.15	8656.45
4	22.26	0.00	0.00	198.35	12.20	8468.16
5	22.70	0.00	0.00	198.35	9.78	8282.73
6	45.32	0.00	0.00	198.35	9.37	8120.33
7	35.72	0.00	0.00	198.35	12.55	7945.15
8	61.47	0.00	0.00	198.35	10.70	7797.57
9	62.02	0.00	0.00	136.37	5.74	7717.48
10	38.69	0.00	0.00	119.01	5.69	7631.47
11	36.22	0.00	0.00	119.01	5.63	7543.05
12	37.16	0.00	0.00	99.18	8.44	7472.59
13	44.85	0.00	0.00	119.01	12.48	7385.95
14	63.65	0.00	0.00	119.01	7.79	7322.80
15	42.62	0.00	0.00	119.01	9.90	7236.51
16	40.73	0.00	0.00	119.01	6.84	7151.39
17	61.54	0.00	0.00	119.01	6.79	7087.13
18	46.99	0.00	0.00	119.01	6.55	7008.56
19	12.61	0.00	0.00	119.01	9.85	6892.31
20	23.40	0.00	0.00	119.01	7.25	6789.45
21	20.16	0.00	0.00	119.01	6.76	6683.84
22	14.70	0.00	0.00	119.01	8.51	6571.02
23	9.59	0.00	0.00	119.01	7.62	6453.98
24	17.82	0.00	0.00	119.01	7.53	6345.26
25	40.49	0.00	0.00	119.01	7.44	6259.30
26	33.30	0.00	0.00	107.44	6.61	6178.55
27	12.47	0.00	0.00	99.18	7.13	6084.71
28	20.42	0.00	0.00	99.18	6.28	5999.67
29	18.50	0.00	0.00	99.18	7.90	5911.09
30	8.89	0.00	0.00	99.18	7.04	5813.76
31	1.06	0.00	0.00	99.18	6.56	5709.08
	1051.07	0.00	0.00	4210.84	260.00	

OffsetAccount-Consumable Kansas Charge

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-ReturnFlow
Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						63.71
1	0.00	0.00	0.00	0.00	0.06	63.65
2	0.00	0.00	0.00	0.00	0.09	63.56
3	0.00	0.00	0.00	0.00	0.09	63.47
4	0.00	0.00	0.00	0.00	0.09	63.38
5	0.00	0.00	0.00	0.00	0.07	63.31
6	0.00	0.00	0.00	0.00	0.07	63.24
7	0.00	0.00	0.00	0.00	0.10	63.14
8	0.00	0.00	0.00	0.00	0.09	63.05
9	0.00	0.00	0.00	0.00	0.05	63.00
10	0.00	0.00	0.00	0.00	0.05	62.95
11	0.00	0.00	0.00	0.00	0.05	62.90
12	0.00	0.00	0.00	0.00	0.07	62.83
13	0.00	0.00	0.00	0.00	0.10	62.73
14	0.00	0.00	0.00	0.00	0.07	62.66
15	0.00	0.00	0.00	0.00	0.08	62.58
16	0.00	0.00	0.00	0.00	0.06	62.52
17	0.00	0.00	0.00	0.00	0.06	62.46
18	0.00	0.00	0.00	0.00	0.06	62.40
19	0.00	0.00	0.00	0.00	0.09	62.31
20	0.00	0.00	0.00	0.00	0.07	62.24
21	0.00	0.00	0.00	0.00	0.06	62.18
22	0.00	0.00	0.00	0.00	0.08	62.10
23	0.00	0.00	0.00	0.00	0.07	62.03
24	0.00	0.00	0.00	0.00	0.07	61.96
25	0.00	0.00	0.00	0.00	0.07	61.89
26	0.00	0.00	0.00	0.00	0.07	61.82
27	0.00	0.00	0.00	0.00	0.07	61.75
28	0.00	0.00	0.00	0.00	0.06	61.69
29	0.00	0.00	0.00	0.00	0.08	61.61
30	0.00	0.00	0.00	0.00	0.07	61.54
31	0.00	0.00	0.00	0.00	0.07	61.47
	0.00	0.00	0.00	0.00	2.24	

OffsetAccount-ReturnFlow
RF Transit Loss

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						63.71
1	0.00	0.00	0.00	0.00	0.06	63.65
2	0.00	0.00	0.00	0.00	0.09	63.56
3	0.00	0.00	0.00	0.00	0.09	63.47
4	0.00	0.00	0.00	0.00	0.09	63.38
5	0.00	0.00	0.00	0.00	0.07	63.31
6	0.00	0.00	0.00	0.00	0.07	63.24
7	0.00	0.00	0.00	0.00	0.10	63.14
8	0.00	0.00	0.00	0.00	0.09	63.05
9	0.00	0.00	0.00	0.00	0.05	63.00
10	0.00	0.00	0.00	0.00	0.05	62.95
11	0.00	0.00	0.00	0.00	0.05	62.90
12	0.00	0.00	0.00	0.00	0.07	62.83
13	0.00	0.00	0.00	0.00	0.10	62.73
14	0.00	0.00	0.00	0.00	0.07	62.66
15	0.00	0.00	0.00	0.00	0.08	62.58
16	0.00	0.00	0.00	0.00	0.06	62.52
17	0.00	0.00	0.00	0.00	0.06	62.46
18	0.00	0.00	0.00	0.00	0.06	62.40
19	0.00	0.00	0.00	0.00	0.09	62.31
20	0.00	0.00	0.00	0.00	0.07	62.24
21	0.00	0.00	0.00	0.00	0.06	62.18
22	0.00	0.00	0.00	0.00	0.08	62.10
23	0.00	0.00	0.00	0.00	0.07	62.03
24	0.00	0.00	0.00	0.00	0.07	61.96
25	0.00	0.00	0.00	0.00	0.07	61.89
26	0.00	0.00	0.00	0.00	0.07	61.82
27	0.00	0.00	0.00	0.00	0.07	61.75
28	0.00	0.00	0.00	0.00	0.06	61.69
29	0.00	0.00	0.00	0.00	0.08	61.61
30	0.00	0.00	0.00	0.00	0.07	61.54
31	0.00	0.00	0.00	0.00	0.07	61.47
	0.00	0.00	0.00	0.00	2.24	

OffsetAccount-ReturnFlow
Return Flow

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						8086.95
1	8.71	0.00	0.00	99.18	9.14	7987.34
2	17.73	0.00	0.00	99.18	9.03	7896.86
3	39.10	0.00	0.00	99.18	10.68	7826.10
4	30.08	0.00	0.00	99.18	13.58	7743.42
5	12.46	0.00	0.00	99.18	7.84	7648.86
6	23.76	0.00	0.00	99.18	11.66	7561.78
7	20.43	0.00	0.00	99.18	11.57	7471.46
8	11.50	0.00	0.00	99.18	11.75	7372.03
9	16.01	0.00	0.00	99.18	6.19	7282.67
10	9.78	0.00	0.00	0.00	12.71	7279.74
11	8.71	0.00	0.00	0.00	7.78	7280.67
12	8.71	0.00	0.00	0.00	6.87	7282.51
13	8.71	0.00	0.00	0.00	8.31	7282.91
14	15.69	0.00	0.00	0.00	8.34	7290.26
15	42.36	0.00	0.00	0.00	8.61	7324.01
16	47.81	0.00	0.00	0.00	14.22	7357.60
17	21.69	0.00	0.00	0.00	8.75	7370.54
18	18.69	0.00	0.00	0.00	13.46	7375.77
19	17.02	0.00	0.00	0.00	9.60	7383.19
20	9.51	0.00	0.00	0.00	9.65	7383.05
21	8.71	0.00	0.00	0.00	9.95	7381.81
22	8.71	0.00	0.00	0.00	9.74	7380.78
23	8.71	0.00	0.00	0.00	7.03	7382.46
24	8.71	0.00	0.00	0.00	8.08	7383.09
25	27.93	0.00	0.00	0.00	8.86	7402.16
26	53.16	0.00	0.00	0.00	10.43	7444.89
27	34.49	0.00	0.00	0.00	9.51	7469.87
28	11.41	0.00	0.00	0.00	9.56	7471.72
29	17.27	0.00	0.00	0.00	9.85	7479.14
30	16.54	0.00	0.00	0.00	14.58	7481.10
	584.10	0.00	0.00	892.62	297.33	

OffsetAccount-Consumable Upstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						2316.40
1	0.00	0.00	0.00	0.00	2.62	2313.78
2	0.00	0.00	0.00	0.00	2.62	2311.16
3	0.00	0.00	0.00	0.00	3.13	2308.03
4	0.00	0.00	0.00	0.00	4.00	2304.03
5	0.00	0.00	0.00	0.00	2.33	2301.70
6	0.00	0.00	0.00	0.00	3.51	2298.19
7	0.00	0.00	0.00	0.00	3.52	2294.67
8	0.00	0.00	0.00	0.00	3.61	2291.06
9	0.00	0.00	0.00	0.00	1.92	2289.14
10	0.00	0.00	0.00	0.00	3.99	2285.15
11	0.00	0.00	0.00	0.00	2.44	2282.71
12	0.00	0.00	0.00	0.00	2.15	2280.56
13	0.00	0.00	0.00	0.00	2.60	2277.96
14	0.00	0.00	0.00	0.00	2.61	2275.35
15	0.00	0.00	0.00	0.00	2.69	2272.66
16	0.00	0.00	0.00	0.00	4.41	2268.25
17	0.00	0.00	0.00	0.00	2.70	2265.55
18	0.00	0.00	0.00	0.00	4.14	2261.41
19	0.00	0.00	0.00	0.00	2.94	2258.47
20	0.00	0.00	0.00	0.00	2.95	2255.52
21	0.00	0.00	0.00	0.00	3.04	2252.48
22	0.00	0.00	0.00	0.00	2.97	2249.51
23	0.00	0.00	0.00	0.00	2.14	2247.37
24	0.00	0.00	0.00	0.00	2.46	2244.91
25	0.00	0.00	0.00	0.00	2.69	2242.22
26	0.00	0.00	0.00	0.00	3.16	2239.06
27	0.00	0.00	0.00	0.00	2.86	2236.20
28	0.00	0.00	0.00	0.00	2.86	2233.34
29	0.00	0.00	0.00	0.00	2.94	2230.40
30	0.00	0.00	0.00	0.00	4.35	2226.05
	0.00	0.00	0.00	0.00	90.35	

OffsetAccount-Consumable Kansas

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-Consumable Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						8025.48
1	8.71	0.00	0.00	99.18	9.07	7925.94
2	17.73	0.00	0.00	99.18	8.96	7835.53
3	39.10	0.00	0.00	99.18	10.60	7764.85
4	30.08	0.00	0.00	99.18	13.47	7682.28
5	12.46	0.00	0.00	99.18	7.78	7587.78
6	23.76	0.00	0.00	99.18	11.57	7500.79
7	20.43	0.00	0.00	99.18	11.48	7410.56
8	11.50	0.00	0.00	99.18	11.65	7311.23
9	16.01	0.00	0.00	99.18	6.14	7221.92
10	9.78	0.00	0.00	0.00	12.60	7219.10
11	8.71	0.00	0.00	0.00	7.72	7220.09
12	8.71	0.00	0.00	0.00	6.81	7221.99
13	8.71	0.00	0.00	0.00	8.24	7222.46
14	15.69	0.00	0.00	0.00	8.27	7229.88
15	42.36	0.00	0.00	0.00	8.54	7263.70
16	47.81	0.00	0.00	0.00	14.10	7297.41
17	21.69	0.00	0.00	0.00	8.68	7310.42
18	18.69	0.00	0.00	0.00	13.35	7315.76
19	17.02	0.00	0.00	0.00	9.52	7323.26
20	9.51	0.00	0.00	0.00	9.57	7323.20
21	8.71	0.00	0.00	0.00	9.87	7322.04
22	8.71	0.00	0.00	0.00	9.66	7321.09
23	8.71	0.00	0.00	0.00	6.97	7322.83
24	8.71	0.00	0.00	0.00	8.01	7323.53
25	27.93	0.00	0.00	0.00	8.79	7342.67
26	53.16	0.00	0.00	0.00	10.35	7385.48
27	34.49	0.00	0.00	0.00	9.43	7410.54
28	11.41	0.00	0.00	0.00	9.48	7412.47
29	17.27	0.00	0.00	0.00	9.77	7419.97
30	16.54	0.00	0.00	0.00	14.46	7422.05
	584.10	0.00	0.00	892.62	294.91	

OffsetAccount-Consumable Downstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						5709.08
1	8.71	0.00	0.00	99.18	6.45	5612.16
2	17.73	0.00	0.00	99.18	6.34	5524.37
3	39.10	0.00	0.00	99.18	7.47	5456.82
4	30.08	0.00	0.00	99.18	9.47	5378.25
5	12.46	0.00	0.00	99.18	5.45	5286.08
6	23.76	0.00	0.00	99.18	8.06	5202.60
7	20.43	0.00	0.00	99.18	7.96	5115.89
8	11.50	0.00	0.00	99.18	8.04	5020.17
9	16.01	0.00	0.00	99.18	4.22	4932.78
10	9.78	0.00	0.00	0.00	8.61	4933.95
11	8.71	0.00	0.00	0.00	5.28	4937.38
12	8.71	0.00	0.00	0.00	4.66	4941.43
13	8.71	0.00	0.00	0.00	5.64	4944.50
14	15.69	0.00	0.00	0.00	5.66	4954.53
15	42.36	0.00	0.00	0.00	5.85	4991.04
16	47.81	0.00	0.00	0.00	9.69	5029.16
17	21.69	0.00	0.00	0.00	5.98	5044.87
18	18.69	0.00	0.00	0.00	9.21	5054.35
19	17.02	0.00	0.00	0.00	6.58	5064.79
20	9.51	0.00	0.00	0.00	6.62	5067.68
21	8.71	0.00	0.00	0.00	6.83	5069.56
22	8.71	0.00	0.00	0.00	6.69	5071.58
23	8.71	0.00	0.00	0.00	4.83	5075.46
24	8.71	0.00	0.00	0.00	5.55	5078.62
25	27.93	0.00	0.00	0.00	6.10	5100.45
26	53.16	0.00	0.00	0.00	7.19	5146.42
27	34.49	0.00	0.00	0.00	6.57	5174.34
28	11.41	0.00	0.00	0.00	6.62	5179.13
29	17.27	0.00	0.00	0.00	6.83	5189.57
30	16.54	0.00	0.00	0.00	10.11	5196.00
	584.10	0.00	0.00	892.62	204.56	

OffsetAccount-Consumable Kansas Charge

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-ReturnFlow

Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						61.47
1	0.00	0.00	0.00	0.00	0.07	61.40
2	0.00	0.00	0.00	0.00	0.07	61.33
3	0.00	0.00	0.00	0.00	0.08	61.25
4	0.00	0.00	0.00	0.00	0.11	61.14
5	0.00	0.00	0.00	0.00	0.06	61.08
6	0.00	0.00	0.00	0.00	0.09	60.99
7	0.00	0.00	0.00	0.00	0.09	60.90
8	0.00	0.00	0.00	0.00	0.10	60.80
9	0.00	0.00	0.00	0.00	0.05	60.75
10	0.00	0.00	0.00	0.00	0.11	60.64
11	0.00	0.00	0.00	0.00	0.06	60.58
12	0.00	0.00	0.00	0.00	0.06	60.52
13	0.00	0.00	0.00	0.00	0.07	60.45
14	0.00	0.00	0.00	0.00	0.07	60.38
15	0.00	0.00	0.00	0.00	0.07	60.31
16	0.00	0.00	0.00	0.00	0.12	60.19
17	0.00	0.00	0.00	0.00	0.07	60.12
18	0.00	0.00	0.00	0.00	0.11	60.01
19	0.00	0.00	0.00	0.00	0.08	59.93
20	0.00	0.00	0.00	0.00	0.08	59.85
21	0.00	0.00	0.00	0.00	0.08	59.77
22	0.00	0.00	0.00	0.00	0.08	59.69
23	0.00	0.00	0.00	0.00	0.06	59.63
24	0.00	0.00	0.00	0.00	0.07	59.56
25	0.00	0.00	0.00	0.00	0.07	59.49
26	0.00	0.00	0.00	0.00	0.08	59.41
27	0.00	0.00	0.00	0.00	0.08	59.33
28	0.00	0.00	0.00	0.00	0.08	59.25
29	0.00	0.00	0.00	0.00	0.08	59.17
30	0.00	0.00	0.00	0.00	0.12	59.05
	0.00	0.00	0.00	0.00	2.42	

OffsetAccount-ReturnFlow

RF Transit Loss

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						61.47
1	0.00	0.00	0.00	0.00	0.07	61.40
2	0.00	0.00	0.00	0.00	0.07	61.33
3	0.00	0.00	0.00	0.00	0.08	61.25
4	0.00	0.00	0.00	0.00	0.11	61.14
5	0.00	0.00	0.00	0.00	0.06	61.08
6	0.00	0.00	0.00	0.00	0.09	60.99
7	0.00	0.00	0.00	0.00	0.09	60.90
8	0.00	0.00	0.00	0.00	0.10	60.80
9	0.00	0.00	0.00	0.00	0.05	60.75
10	0.00	0.00	0.00	0.00	0.11	60.64
11	0.00	0.00	0.00	0.00	0.06	60.58
12	0.00	0.00	0.00	0.00	0.06	60.52
13	0.00	0.00	0.00	0.00	0.07	60.45
14	0.00	0.00	0.00	0.00	0.07	60.38
15	0.00	0.00	0.00	0.00	0.07	60.31
16	0.00	0.00	0.00	0.00	0.12	60.19
17	0.00	0.00	0.00	0.00	0.07	60.12
18	0.00	0.00	0.00	0.00	0.11	60.01
19	0.00	0.00	0.00	0.00	0.08	59.93
20	0.00	0.00	0.00	0.00	0.08	59.85
21	0.00	0.00	0.00	0.00	0.08	59.77
22	0.00	0.00	0.00	0.00	0.08	59.69
23	0.00	0.00	0.00	0.00	0.06	59.63
24	0.00	0.00	0.00	0.00	0.07	59.56
25	0.00	0.00	0.00	0.00	0.07	59.49
26	0.00	0.00	0.00	0.00	0.08	59.41
27	0.00	0.00	0.00	0.00	0.08	59.33
28	0.00	0.00	0.00	0.00	0.08	59.25
29	0.00	0.00	0.00	0.00	0.08	59.17
30	0.00	0.00	0.00	0.00	0.12	59.05
	0.00	0.00	0.00	0.00	2.42	

OffsetAccount-ReturnFlow

Return Flow

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						7481.10
1	8.23	0.00	0.00	0.00	4.44	7484.89
2	7.70	0.00	0.00	0.00	7.07	7485.52
3	7.70	0.00	0.00	0.00	3.14	7490.08
4	16.37	0.00	0.00	0.00	5.52	7500.93
5	31.48	0.00	0.00	0.00	5.54	7526.87
6	24.58	0.00	0.00	0.00	5.57	7545.88
7	7.70	0.00	0.00	0.00	5.35	7548.23
8	16.32	0.00	0.00	0.00	6.71	7557.84
9	22.07	0.00	0.00	0.00	7.55	7572.36
10	13.77	0.00	0.00	0.00	4.87	7581.26
11	14.15	0.00	0.00	0.00	4.90	7590.51
12	14.51	0.00	0.00	0.00	4.91	7600.11
13	8.42	0.00	0.00	0.00	4.93	7603.60
14	7.70	0.00	0.00	0.00	4.94	7606.36
15	7.70	0.00	0.00	0.00	8.24	7605.82
16	7.70	0.00	0.00	0.00	0.83	7612.69
17	7.70	0.00	0.00	0.00	10.72	7609.67
18	7.70	0.00	0.00	0.00	8.79	7608.58
19	7.70	0.00	0.00	0.00	9.07	7607.21
20	7.70	0.00	0.00	0.00	9.06	7605.85
21	7.70	0.00	0.00	0.00	6.32	7607.23
22	7.70	0.00	0.00	0.00	6.05	7608.88
23	7.70	0.00	0.00	0.00	4.95	7611.63
24	7.70	0.00	0.00	0.00	5.50	7613.83
25	7.70	0.00	0.00	0.00	4.96	7616.57
26	31.24	0.00	0.00	0.00	4.96	7642.85
27	46.96	0.00	0.00	0.00	4.98	7684.83
28	25.01	0.00	0.00	0.00	5.01	7704.83
29	3.19	0.00	0.00	0.00	5.02	7703.00
30	7.99	0.00	0.00	0.00	5.03	7705.96
31	7.40	0.00	0.00	0.00	5.04	7708.32
	407.19	0.00	0.00	0.00	179.97	

OffsetAccount-Consumable Upstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						2226.05
1	0.00	0.00	0.00	0.00	1.32	2224.73
2	0.00	0.00	0.00	0.00	2.10	2222.63
3	0.00	0.00	0.00	0.00	0.93	2221.70
4	0.00	0.00	0.00	0.00	1.64	2220.06
5	0.00	0.00	0.00	0.00	1.64	2218.42
6	0.00	0.00	0.00	0.00	1.64	2216.78
7	0.00	0.00	0.00	0.00	1.57	2215.21
8	0.00	0.00	0.00	0.00	1.97	2213.24
9	0.00	0.00	0.00	0.00	2.21	2211.03
10	0.00	0.00	0.00	0.00	1.42	2209.61
11	0.00	0.00	0.00	0.00	1.43	2208.18
12	0.00	0.00	0.00	0.00	1.43	2206.75
13	0.00	0.00	0.00	0.00	1.43	2205.32
14	0.00	0.00	0.00	0.00	1.43	2203.89
15	0.00	0.00	0.00	0.00	2.39	2201.50
16	0.00	0.00	0.00	0.00	0.24	2201.26
17	0.00	0.00	0.00	0.00	3.10	2198.16
18	0.00	0.00	0.00	0.00	2.54	2195.62
19	0.00	0.00	0.00	0.00	2.62	2193.00
20	0.00	0.00	0.00	0.00	2.61	2190.39
21	0.00	0.00	0.00	0.00	1.82	2188.57
22	0.00	0.00	0.00	0.00	1.74	2186.83
23	0.00	0.00	0.00	0.00	1.42	2185.41
24	0.00	0.00	0.00	0.00	1.58	2183.83
25	0.00	0.00	0.00	0.00	1.42	2182.41
26	0.00	0.00	0.00	0.00	1.42	2180.99
27	0.00	0.00	0.00	0.00	1.42	2179.57
28	0.00	0.00	0.00	0.00	1.42	2178.15
29	0.00	0.00	0.00	0.00	1.42	2176.73
30	0.00	0.00	0.00	0.00	1.42	2175.31
31	0.00	0.00	0.00	0.00	1.42	2173.89
	0.00	0.00	0.00	0.00	52.16	

OffsetAccount-Consumable Kansas

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-Consumable Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						7422.05
1	8.23	0.00	0.00	0.00	4.40	7425.88
2	7.70	0.00	0.00	0.00	7.01	7426.57
3	7.70	0.00	0.00	0.00	3.12	7431.15
4	16.37	0.00	0.00	0.00	5.48	7442.04
5	31.48	0.00	0.00	0.00	5.50	7468.02
6	24.58	0.00	0.00	0.00	5.53	7487.07
7	7.70	0.00	0.00	0.00	5.31	7489.46
8	16.32	0.00	0.00	0.00	6.66	7499.12
9	22.07	0.00	0.00	0.00	7.49	7513.70
10	13.77	0.00	0.00	0.00	4.83	7522.64
11	14.15	0.00	0.00	0.00	4.86	7531.93
12	14.51	0.00	0.00	0.00	4.87	7541.57
13	8.42	0.00	0.00	0.00	4.89	7545.10
14	7.70	0.00	0.00	0.00	4.90	7547.90
15	7.70	0.00	0.00	0.00	8.18	7547.42
16	7.70	0.00	0.00	0.00	0.82	7554.30
17	7.70	0.00	0.00	0.00	10.64	7551.36
18	7.70	0.00	0.00	0.00	8.72	7550.34
19	7.70	0.00	0.00	0.00	9.00	7549.04
20	7.70	0.00	0.00	0.00	8.99	7547.75
21	7.70	0.00	0.00	0.00	6.27	7549.18
22	7.70	0.00	0.00	0.00	6.00	7550.88
23	7.70	0.00	0.00	0.00	4.91	7553.67
24	7.70	0.00	0.00	0.00	5.46	7555.91
25	7.70	0.00	0.00	0.00	4.92	7558.69
26	31.24	0.00	0.00	0.00	4.92	7585.01
27	46.96	0.00	0.00	0.00	4.94	7627.03
28	25.01	0.00	0.00	0.00	4.97	7647.07
29	3.19	0.00	0.00	0.00	4.98	7645.28
30	7.99	0.00	0.00	0.00	4.99	7648.28
31	7.40	0.00	0.00	0.00	5.00	7650.68
	407.19	0.00	0.00	0.00	178.56	

OffsetAccount-Consumable Downstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						5196.00
1	8.23	0.00	0.00	0.00	3.08	5201.15
2	7.70	0.00	0.00	0.00	4.91	5203.94
3	7.70	0.00	0.00	0.00	2.19	5209.45
4	16.37	0.00	0.00	0.00	3.84	5221.98
5	31.48	0.00	0.00	0.00	3.86	5249.60
6	24.58	0.00	0.00	0.00	3.89	5270.29
7	7.70	0.00	0.00	0.00	3.74	5274.25
8	16.32	0.00	0.00	0.00	4.69	5285.88
9	22.07	0.00	0.00	0.00	5.28	5302.67
10	13.77	0.00	0.00	0.00	3.41	5313.03
11	14.15	0.00	0.00	0.00	3.43	5323.75
12	14.51	0.00	0.00	0.00	3.44	5334.82
13	8.42	0.00	0.00	0.00	3.46	5339.78
14	7.70	0.00	0.00	0.00	3.47	5344.01
15	7.70	0.00	0.00	0.00	5.79	5345.92
16	7.70	0.00	0.00	0.00	0.58	5353.04
17	7.70	0.00	0.00	0.00	7.54	5353.20
18	7.70	0.00	0.00	0.00	6.18	5354.72
19	7.70	0.00	0.00	0.00	6.38	5356.04
20	7.70	0.00	0.00	0.00	6.38	5357.36
21	7.70	0.00	0.00	0.00	4.45	5360.61
22	7.70	0.00	0.00	0.00	4.26	5364.05
23	7.70	0.00	0.00	0.00	3.49	5368.26
24	7.70	0.00	0.00	0.00	3.88	5372.08
25	7.70	0.00	0.00	0.00	3.50	5376.28
26	31.24	0.00	0.00	0.00	3.50	5404.02
27	46.96	0.00	0.00	0.00	3.52	5447.46
28	25.01	0.00	0.00	0.00	3.55	5468.92
29	3.19	0.00	0.00	0.00	3.56	5468.55
30	7.99	0.00	0.00	0.00	3.57	5472.97
31	7.40	0.00	0.00	0.00	3.58	5476.79
	407.19	0.00	0.00	0.00	126.40	

OffsetAccount-Consumable Kansas Charge

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-ReturnFlow

Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						59.05
1	0.00	0.00	0.00	0.00	0.04	59.01
2	0.00	0.00	0.00	0.00	0.06	58.95
3	0.00	0.00	0.00	0.00	0.02	58.93
4	0.00	0.00	0.00	0.00	0.04	58.89
5	0.00	0.00	0.00	0.00	0.04	58.85
6	0.00	0.00	0.00	0.00	0.04	58.81
7	0.00	0.00	0.00	0.00	0.04	58.77
8	0.00	0.00	0.00	0.00	0.05	58.72
9	0.00	0.00	0.00	0.00	0.06	58.66
10	0.00	0.00	0.00	0.00	0.04	58.62
11	0.00	0.00	0.00	0.00	0.04	58.58
12	0.00	0.00	0.00	0.00	0.04	58.54
13	0.00	0.00	0.00	0.00	0.04	58.50
14	0.00	0.00	0.00	0.00	0.04	58.46
15	0.00	0.00	0.00	0.00	0.06	58.40
16	0.00	0.00	0.00	0.00	0.01	58.39
17	0.00	0.00	0.00	0.00	0.08	58.31
18	0.00	0.00	0.00	0.00	0.07	58.24
19	0.00	0.00	0.00	0.00	0.07	58.17
20	0.00	0.00	0.00	0.00	0.07	58.10
21	0.00	0.00	0.00	0.00	0.05	58.05
22	0.00	0.00	0.00	0.00	0.05	58.00
23	0.00	0.00	0.00	0.00	0.04	57.96
24	0.00	0.00	0.00	0.00	0.04	57.92
25	0.00	0.00	0.00	0.00	0.04	57.88
26	0.00	0.00	0.00	0.00	0.04	57.84
27	0.00	0.00	0.00	0.00	0.04	57.80
28	0.00	0.00	0.00	0.00	0.04	57.76
29	0.00	0.00	0.00	0.00	0.04	57.72
30	0.00	0.00	0.00	0.00	0.04	57.68
31	0.00	0.00	0.00	0.00	0.04	57.64
	0.00	0.00	0.00	0.00	1.41	

OffsetAccount-ReturnFlow

RF Transit Loss

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						59.05
1	0.00	0.00	0.00	0.00	0.04	59.01
2	0.00	0.00	0.00	0.00	0.06	58.95
3	0.00	0.00	0.00	0.00	0.02	58.93
4	0.00	0.00	0.00	0.00	0.04	58.89
5	0.00	0.00	0.00	0.00	0.04	58.85
6	0.00	0.00	0.00	0.00	0.04	58.81
7	0.00	0.00	0.00	0.00	0.04	58.77
8	0.00	0.00	0.00	0.00	0.05	58.72
9	0.00	0.00	0.00	0.00	0.06	58.66
10	0.00	0.00	0.00	0.00	0.04	58.62
11	0.00	0.00	0.00	0.00	0.04	58.58
12	0.00	0.00	0.00	0.00	0.04	58.54
13	0.00	0.00	0.00	0.00	0.04	58.50
14	0.00	0.00	0.00	0.00	0.04	58.46
15	0.00	0.00	0.00	0.00	0.06	58.40
16	0.00	0.00	0.00	0.00	0.01	58.39
17	0.00	0.00	0.00	0.00	0.08	58.31
18	0.00	0.00	0.00	0.00	0.07	58.24
19	0.00	0.00	0.00	0.00	0.07	58.17
20	0.00	0.00	0.00	0.00	0.07	58.10
21	0.00	0.00	0.00	0.00	0.05	58.05
22	0.00	0.00	0.00	0.00	0.05	58.00
23	0.00	0.00	0.00	0.00	0.04	57.96
24	0.00	0.00	0.00	0.00	0.04	57.92
25	0.00	0.00	0.00	0.00	0.04	57.88
26	0.00	0.00	0.00	0.00	0.04	57.84
27	0.00	0.00	0.00	0.00	0.04	57.80
28	0.00	0.00	0.00	0.00	0.04	57.76
29	0.00	0.00	0.00	0.00	0.04	57.72
30	0.00	0.00	0.00	0.00	0.04	57.68
31	0.00	0.00	0.00	0.00	0.04	57.64
	0.00	0.00	0.00	0.00	1.41	

OffsetAccount-ReturnFlow

Return Flow

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

Section 3

COLORADO
Division of Water Resources
Department of Natural Resources

January 22, 2019

Kevin Salter
Kansas Department of Agriculture (By E-Mail)

Dear Kevin,

The purpose of this letter is to provide you with initial information of a transfer of water to the Offset Account in John Martin Reservoir. Colorado Springs Utilities (CSU) will deliver fully consumable water tracked from their waste water treatment plant to the Fountain Creek- Arkansas River confluence by the Fountain Creek Transit Loss model to the Offset Account in John Martin Reservoir on behalf of LAWMA. This water will begin to arrive in John Martin Reservoir approximately on Friday, January 25, 2019. CSU will deliver approximately 27 cfs (53.5 acre-feet/day) to the Kansas Charge Account up through the first 500 acre-feet. All other available flow after that will be delivered to the Colorado Downstream Consumable Subaccount. This delivery will continue until exchange potential into Pueblo Reservoir is possible. We estimate this delivery will be approximately 1000 acre-feet in total, but could be more or less depending on the opportunity for Colorado Springs Utilities to exchange water into Pueblo Reservoir.

I will provide you with a formal notification, which will have all of the details concerning the delivery into the Offset Account in a letter to follow.

If you have any questions in the meantime, please call me.

Sincerely,

Rachel A. Zancanella
Assistant Division Engineer

310 E. Abriendo Ave. Suite B, Pueblo, CO 81004 P 719.542.3368 www.water.state.co.us

COLORADO
Division of Water Resources
Department of Natural Resources

April 2, 2019

Kevin Salter
Kansas Department of Agriculture (By E-Mail)

Dear Kevin,

The purpose of this letter is to provide you with initial information of a delivery of water to the Offset Account in John Martin Reservoir. The Lower Arkansas Water Management Association (LAWMA) has initiated an action to deliver 11.94 acre-feet of fully consumable water to the Kansas Charge subaccount of the Offset Account for the purpose of satisfying the Storage Charge prerequisite for using the Offset Account as provided for in paragraph 9 of the **Resolution Concerning an Offset Account in John Martin Reservoir for Colorado Pumping As Amended March 30, 1998** ("Resolution"). LAWMA will transfer consumable water from LAWMA's **Keesee Article II** account to fulfill the storage charge for 2019. This is the second delivery of water to this account intended to satisfy the 500 acre-foot storage charge. 500 acre-feet was delivered in January as described in the January 22, 2019 letter to pre-pay the storage charge. Since that time the account has suffered 11.94 acre-feet of evaporation, which this transaction recovers. A spreadsheet documenting the storage charge calculations is attached.

Using the procedures described in the **"AGREEMENT CONCERNING THE OFFSET ACCOUNT IN JOHN MARTIN RESERVOIR FOR COLORADO PUMPING, DETERMINATION OF CREDITS FOR DELIVERY OF WATER RELEASED FOR COLORADO PUMPING, AND RELATED MATTERS",** Paragraph 6 and Attachment A, 18.57 acre-feet of water will be transferred from LAWMA's **Keesee Article II** account. The following distribution of the 18.57 acre-feet will be made in the Offset Account.

On March 31, 2019:	
Kansas Charge Water Subaccount	11.94 acre-feet
Return Flow Subaccount	1.71 acre-feet
Return Flow Transit Loss Subaccount	0.09 acre-feet

Additionally, on March 31, 2019, the following amounts representing the in-state return flow portion will be transferred to the Article II accounts of the various ditches:

Fort Bent Winter Stored Subaccount	0.56 acre-feet
Amity Winter Stored Subaccount	2.73 acre-feet
Lamar Winter Stored Subaccount	1.54 acre-feet

I will provide you with a formal notification, which will have all of the details concerning the transfer into the Offset Account. If you have any questions in the meantime, please call me.

Sincerely,

Rachel Zancanella, P.E.

Water Division 2 □ Pueblo
310 E. Abriendo Ave., Suite B □ Pueblo, CO 81004 □ Phone: 719-542-3368 □ Fax: 719-544-0800
www.water.state.co.us

COLORADO
Division of Water Resources
Department of Natural Resources

April 4, 2019

Kevin Salter
Kansas Department of Agriculture (By E-Mail)

Dear Kevin,

The purpose of this letter is to provide you with initial information of a delivery of water to the Offset Account in John Martin Reservoir. The Lower Arkansas Water Management Association (LAWMA) will deliver fully consumable water associated with the Highland Canal water right to the Offset Account per the provisions of Paragraph 14 of the **Resolution Concerning an Offset Account in John Martin Reservoir for Colorado Pumping As Amended March 30, 1998** ("Resolution") during times when John Martin Reservoir is in Conservation Storage and at all other times when the Highland Canal water right is not needed for in-state replacement or being delivered to the Permanent Pool in John Martin Reservoir per the agreement between the Colorado State Engineer and Kansas Chief Engineer signed on February 21, 2019. The delivery is expected to begin on April 2, 2019.

Colorado Downstream Consumable Water Subaccount	Approximately 4,214 acre-feet
Return Flow Subaccount	N/A
Return Flow Transit Loss Subaccount	N/A

I will provide you with a formal notification, which will have all of the details concerning the delivery into the Offset Account at the conclusion of the 2019 irrigation season. The accounting spreadsheet for the operation of the Highland Canal water right for 2019 will be provided electronically.

If you have any questions in the meantime, please call me.

Sincerely,

Rachel A. Zancanella, P.E.
Assistant Division Engineer

Enclosure: JMR Permanent Pool Agreement for 2019

COLORADO
Division of Water Resources
Department of Natural Resources

April 4, 2019

Kevin Salter
Kansas Department of Agriculture (By E-Mail)

Dear Kevin,

The purpose of this letter is to provide you with initial information of a delivery of water to the Offset Account in John Martin Reservoir. The Lower Arkansas Water Management Association (LAWMA) will deliver fully consumable water associated with the Fort Lyon Canal water right to the Offset Account per the provisions of Paragraph 14 of the **Resolution Concerning an Offset Account in John Martin Reservoir for Colorado Pumping As Amended March 30, 1998** ("Resolution") during times when John Martin Reservoir is in Conservation Storage and at other times when the Fort Lyon Canal water right is not needed for in-state replacement. The delivery will only occur from those augmentation stations above John Martin Dam as identified last year's notice letter. The delivery began approximately on March 17, 2018. The historical consumptive use analysis was provided as part of LAWMA's 2017-18 Rule 14 Plan application and also for the current year application. Appropriate terms and conditions were included for use of the water rights in the current plan and will be also included in the 2018-19 Rule 14 Plan approval.

Colorado Upstream Consumable Water Subaccount	Approximately 0 acre-feet
Colorado Downstream Consumable Water Subaccount	Approximately 3,464 acre-feet
Return Flow Subaccount	N/A
Return Flow Transit Loss Subaccount	N/A

I will provide you with a formal notification, which will have all of the details concerning the delivery into the Offset Account at the conclusion of the 2019 irrigation season. The accounting spreadsheet for the operation of the Fort Lyon Canal water right for 2019 will be provided electronically.

If you have any questions in the meantime, please call me.

Sincerely,

Rachel A. Zancanella, P.E.
Assistant Division Engineer

COLORADO
Division of Water Resources
Department of Natural Resources

April 4, 2019

Kevin Salter
Kansas Department of Agriculture (By E-Mail)

Dear Kevin,

The purpose of this letter is to provide you with initial information of a delivery of water to the Offset Account in John Martin Reservoir. The Lower Arkansas Water Management Association (LAWMA) will deliver fully consumable water associated with the Keesee Ditch water right to the Offset Account per the provisions of Paragraph 14 of the **Resolution Concerning an Offset Account in John Martin Reservoir for Colorado Pumping As Amended March 30, 1998** ("Resolution"). The delivery throughout 2019 is expected to total approximately 1,411 acre-feet to be used for well augmentation pursuant to the conditions in LAWMA's decrees in Water Court Case 02CW181 and 05CW052. Delivery will begin once all conservation storage has been distributed into accounts.

Colorado Downstream Consumable Water Subaccount	Approximately 1,411 acre-feet
Return Flow Subaccount	N/A
Return Flow Transit Loss Subaccount	N/A

I will provide you with a formal notification, which will have all of the details concerning the delivery into the Offset Account at the conclusion of the 2019 irrigation season. The accounting spreadsheet for the operation of the Keesee Ditch water right for 2019 will be provided electronically.

If you have any questions in the meantime, please call me.

Sincerely,

Rachel A. Zancanella, P.E.
Assistant Division Engineer

COLORADO
Division of Water Resources
Department of Natural Resources
Water Division 2 – Main Office

June 28, 2019

Kevin Salter
Kansas Department of Agriculture (By E-Mail)

Dear Kevin,

The purpose of this letter is to provide you with initial information of a delivery of water to the Offset Account in John Martin Reservoir. The Lower Arkansas Water Management Association (LAWMA) will deliver fully consumable water associated with the Sisson Canal Section II Account to the river on June 30, 2019 and will transfer the corresponding return flow components to the Offset Account per the provisions of Paragraph 14 of the **Resolution Concerning an Offset Account in John Martin Reservoir for Colorado Pumping As Amended March 30, 1998** ("Resolution"). This transfer will ensure LAWMA meets their July 1st target under the permanent pool agreement.

Using the procedures described in the **"AGREEMENT CONCERNING THE OFFSET ACCOUNT IN JOHN MARTIN RESERVOIR FOR COLORADO PUMPING, DETERMINATION OF CREDITS FOR DELIVERY OF WATER RELEASED FOR COLORADO PUMPING, AND RELATED MATTERS",** Paragraph 6 and Attachment A, 780.03 acre-feet of water will be transferred from LAWMA's **Sisson Article II** account. The following distribution of the 780.03 acre-feet will be made in the Offset Account.

On June 30, 2019:

Colorado Downstream Consumable Subaccount	500.00 acre-feet
Return Flow Subaccount	241.03 acre-feet
Return Flow Transit Loss Subaccount	39.00 acre-feet

I will provide you with a formal notification, which will have all of the details concerning the transfer into the Offset Account. If you have any questions in the meantime, please call me.

Sincerely,

Rachel Zancanella, P.E.
Assistant Division Engineer

COLORADO
Division of Water Resources
Department of Natural Resources
Water Division 2 – Main Office

June 28, 2019

Kevin Salter
Kansas Department of Agriculture (By E-Mail)

Dear Kevin,

The purpose of this letter is to provide you with preliminary information regarding a delivery of water to the Offset Account in John Martin Reservoir on behalf of Colorado Water Protective & Development Association (CWPDA) per the provisions of Paragraph 6 of the **Resolution Concerning an Offset Account in John Martin Reservoir for Colorado Pumping as Amended March 30, 1998** ("Resolution"). The purpose of this delivery will be for storage in the Colorado Upstream Consumable account for the purpose of replacing depletions to Conservation Storage.

The delivery will be executed by release from Lake Meredith. The release will be made from CWPDA's account and will be fully consumable Arkansas River Basin water derived from Fountain Creek, CSU fully consumable East Slope water and Rocky Ford 2 water. Final documentation of water type will be provided with the delivery letter following the delivery. A transit loss of 7.5 % has been computed for the delivery using the Livingston Transit Loss Model from Pueblo Reservoir to John Martin Reservoir.

- CWPDA will began a release of approximately 1,250 acre-feet at 11:00 hours on July 1, 2019 at a rate of 315.10 cubic feet per second (624.99 acre-feet per day) release rate for delivery to the Offset Account. The arrival time will be monitored but is projected to be on approximately July 3, 2019 around 11:00 hours and at an arrival rate of 275.71 cubic feet per second (546.86 acre-feet per day) for a net deposit of just over 1,093.75 acre-feet. Since LAWMA has already paid the 5% storage charge to open the account (first 10,000 acre-feet of storage), this delivery by CWPDA will not result in additional transfers to the Kansas Charge subaccount. CWPDA will compensate LAWMA for the 5% storage charge associated with this delivery in the Colorado Upstream Consumable subaccount.
- The disposition of the water within the Offset account will be:
    - Colorado Upstream Consumable Water Subaccount 1,093.00 acre-feet
    - Kansas Charge Subaccount N/A
    - Return Flow Subaccount N/A
    - Return Flow Transit Loss Subaccount N/A

Pursuant to Paragraph 6 of the Resolution, the delivered water will either be (1) directed to be transferred from the Offset Account to conservation storage to replace depletions to inflows to conservation storage, or (2) to the extent such water is not

needed to replace depletions to the inflows to conservation storage, Colorado may change the prior designation of water previously designated for the purpose of transfer to conservation storage.

I will provide you with a formal notification, which will have all of the details concerning the transfer into the Offset Account. If you have any questions in the meantime, please call me.

Sincerely,

Rachel Zancanella, P.E.
Assistant Division Engineer

COLORADO
Division of Water Resources
Department of Natural Resources
Water Division 2 – Main Office

July 10, 2019

David Barfield
Kansas Chief Engineer
Kansas Board of Agriculture
901 S. Kansas Avenue, 2nd Floor
Topeka, KS 66612-1283

Dear Mr. Barfield,

The purpose of this letter is to provide the notice required by paragraph 3 of the **Resolution Concerning an Offset Account in John Martin Reservoir for Colorado Pumping As Amended March 30, 1998** ("Resolution") for each delivery or transfer conducted during 2019 in detail following the initial notice for each transaction originally sent to Kansas.

January 22, 2019 through March 19, 2019 delivery:
Colorado Springs Utilities (CS-U) on behalf of the Lower Arkansas Water Management Association (LAWMA), delivered **2239.67 acre-feet** of consumable water to the Colorado Downstream Consumable subaccount and **500 acre-feet** to the Kansas Charge subaccount between January 26, 2019 and March 19, 2019.

In order to accomplish the foregoing, a total of 4557.75 **acre-feet** of water was delivered to the mouth of Fountain Creek beginning on January 22, 2019 at an average rate of 44 cfs. The computed transit loss for this release was 39.89%. The arrival rate at John Martin Reservoir averaged 26.06 cfs. The inflows were stored in the Colorado Downstream Consumable subaccount and then the Kansas Charge 5% was transferred on a daily basis until the 500 acre-foot target was satisfied.

Details of this delivery are included at Enclosure 1.

March 31, 2019 transfer:
The Lower Arkansas Water Management Association (LAWMA) transferred 11.94 **acre-feet** of consumable water and 1.80 **acre-feet** of stateline return flow water to the Kansas Charge subaccount, Return Flow subaccount and Return Flow Transit Loss subaccount of the Offset Account on March 31, 2019.
In order to accomplish the foregoing, a total of **18.57 acre-feet** of water was transferred from LAWMA's Keesee Article II account: 11.94 acre-feet was transferred to the Kansas Charge subaccount for LAWMA to refill the 2019 initial storage charge that was lost to evaporation since the delivery cited above ended March 19, 2019, 1.71 acre-feet was placed in the Return Flow subaccount and, 0.09 acre-feet was placed in the Return Flow Transit Loss subaccount of the Offset Account. Additionally, 0.56 acre-feet was transferred to the Fort Bent Article II account, 2.73 acre-feet was transferred to the Amity Article II account and 1.54 acre-feet was transferred to the Lamar Article II account, representing

in-state return flows. A daily accounting sheet for John Martin Reservoir for March 31st is included in Enclosure 2.

June 30, 2019 transfer:

The Lower Arkansas Water Management Association (LAWMA) transferred 500 **acre-feet** of consumable water to the Consumable Downstream subaccount and 280.03 **acre-feet** of stateline return flow water to the Return Flow subaccount and Return Flow Transit Loss subaccount of the Offset Account on June 30, 2019.
In order to accomplish the foregoing, a total of **780.03 acre-feet** of water was transferred from LAWMA's Sisson Article II account. A daily accounting sheet for John Martin Reservoir for June 30 is included in Enclosure 3.

Summary

This letter summarizes the delivery and both of the transfers to the Offset Account for LAWMA during 2019 to date, not including deliveries by the Highland Canal, Fort Lyon Canal or Keesee Ditch, which will be reported at the end of the season via separate letters. The total amount of water delivered to the Offset Account on the above dates was **3538.27 acre-feet**. Total consumable water delivered was **3258.24 acre-feet** and total return flow water delivered was **281.83 acre-feet**.

Please contact me if you have any questions or require additional information.

Sincerely,

Bill W. Tyner

Bill W. Tyner, P.E.
Division Engineer
Colorado Division of Water Resources

3 Enclosures
cc: Kevin Salter Dale Book Eunhye Kim Brent Campbell Rachel Zancanella
Dan Steuer Don Higbee Randy Hendrix Bethany Arnold

Enclosure 1

Delivery Details LAWMA from Colorado Springs Utilities
January to March 2019

Colorado Springs Utilities
It's how we're all connected

January 23, 2019

VIA EMAIL

Bill Tyner
Colorado Division of Water Resources
Division 2 Engineer
310 E. Abriendo Ave., Suite B
Pueblo, CO 81004

Dear Mr. Tyner:

On January 22, 2019, Colorado Springs Utilities began a release of fully reusable Arkansas River return flows released down Fountain Creek for the Lower Arkansas Water Management Association (LAWMA). Specifically, the water leased is the fully-consumable return flows from Colorado Springs' Colorado Canal and/or Sugarloaf Reservoir/Colorado Gulch Placer Ditch rights, either directly at Fountain Creek or by contract exchange from Pueblo Reservoir to the mouth of Fountain Creek. This water will be delivered by LAWMA to the Offset Account in John Martin Reservoir to cover depletions to usable state-line flows caused by well pumping in Colorado. This letter serves to document the return flows leased to LAWMA any time until March 15.

LAWMA is responsible for obtaining approval by the State Engineer or Division 2 Engineer, as well as all other necessary approvals required for delivery of this water from Fountain Creek to John Martin Reservoir.

Please contact me at (719) 668-8758 if you have any questions.

Sincerely,

Kalsoum Abbasi, P.E.
Planning Supervisor, Water Conveyance

cc: Rachel Zancanella
John Van Oort
Charlie DiDomenico
Don Higbee
Randy Hendrix

1521 South Hancock Expressway
P.O. Box 1103, Mail Code 1825
Colorado Springs, CO 80947-1825

Phone 719.448.8888
www@csu.org

Fountain Creek Exchanges Into Pueblo Reservoir
Comparison of Computed vs. Stored Return Flows
NOTE: Am NOTE: Amounts below are in CFS.

	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
			Exchange			Augmentation			Storable Exchanges and Augmentation water delivered to mouth computed through the Fountain Creek Transit Loss Program																																										Storeable ex
Line #	5	6	17	21	27	47	60	72	80	81	84	87	91	92	96	98	102	104	107	108	109	112	121	124	136	137	148	149	156	162	165	168	176	177	178	179	192	195	196	197	198						5
Date	CSU0004 - CSU Transmountain	CSU0005 - CSU Fry/Ark	CWP0006-Woodmoor Aug to CWPDA Node 34	STH0001 - Stratmoor Fry/Ark	CWP0018 - FMIC Aug for CWPDA Node 34	CWP0020 - Sp Crk Aug For Edison School	WFS0014 - Big Johnson "2250" Crews Gulch	AGA0012-CSU Aug for AGUA Node 34	CWP0024 - Security Aug for CWPDA	WFS0006 - Security Fry/Ark Exchange to Pueblo	CWP0069 - Sec Lock Ditch to CWPDA node 34	CWP0072 - Sec Chilcott Ditch to CWPDA Node 34	CWP0030 - Widefld Aug for CWPDA Node 34	WFS0004 - Widefield Fry/Ark Exchange to Pueblo	CWP0048 - Wdf Crews Gtch for CWPDA Node 34	WFS0011 - Widefield Crews Gulch	Exchange to Pueblo CWP0036 - Ftn Crews Gtc for CWPDA Node 34	WFS0008 - Fountain Crews Gulch	Exchange to Pueblo CWP0042 - Fountain Aug for CWPDA Node 34	WFS0001 - Fountain Fry/Ark Exchange to Pueblo	WFS0002- Ftn If and when Exch to Pueblo	[illegible] Chilcott Ditch to CWPDA 34	CWP0066 Cody Laughlin to CWPDA Node 34	CWP0078-Cody Owen & Hall to CWPDA Node 34	AGA0022-Donal Aug for AUGA Node 34	AGA0024-Donala Aug for MAGUA Node 34	AGA0035-TriView aug for AGUA Node 34	AGA0036-TriView Aug for MAGUA Node 34	CWP0084-Colo Centre FMIC Aug to CWPDA Node 34	CWP0090-CCMD Robinson Aug to CWPDA Node 34	CWP0093-CCMD Reusablefl Aug to CWPDA Node 34	CWP0096-Fountain Lower Plant Aug to CWPDA Node 34	CWP0012-Donala Aug to CWPDA Node 34	WFS0017-Fountain Chilcott Exchange to Pueblo	WFS0018-Security Chilcott Exchange to Pueblo	SEC0000 Total SEWCD Exchange to Pueblo	CWP0102-Stratmoor Laughlin to CWPDA Node 34	CWP0105 Ftn Miller Ditch Aug to CWPDA Node 34	WFS0019 Ftn Miller Ditch Exchange to Pueblo Reservoir	AGA0047-Tri-view FMIC Aug for AGUA Node 34	AGA0048-Tri-view FMIC Aug for MAGUA Node 34	Total Exchange	Total Augmentation to Arkansas	**TOTAL FLOWS TO ARKANSAS**	**Physical Check FouMouCo**	CSU0004 - CSU Transmountain
(CFS)																																															
1-Jan-19	44.00	0.00	0.30	0.50	0.15	0.00	0.00	0.00	2.51	0.00	0.00	0.01	1.12	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.02	0.54	0.00	0.11	0.11	0.06	0.06	0.64	0.00	0.24	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0444	0.0444	44.50	6.89	**51.39**	**242**	44.00
2-Jan-19	44.57	0.00	0.35	0.51	0.18	0.00	0.00	0.00	2.37	0.00	0.00	0.01	1.04	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.02	0.48	0.00	0.18	0.18	0.10	0.10	0.27	0.00	0.24	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0209	0.0209	45.08	6.59	**51.67**	**173**	44.57
3-Jan-19	46.32	0.00	0.40	0.51	0.19	0.00	0.00	0.00	2.30	0.00	0.00	0.01	0.93	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.01	0.45	0.00	0.21	0.21	0.11	0.11	0.18	0.00	0.25	0.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0152	0.0152	46.83	6.53	**53.36**	**117**	46.32
4-Jan-19	45.46	0.00	0.39	0.51	0.18	0.00	0.00	0.00	2.20	0.00	0.00	0.01	0.88	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.01	0.43	0.00	0.24	0.24	0.13	0.13	0.12	0.00	0.24	0.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0115	0.0115	45.96	6.25	**52.21**	**102**	45.46
5-Jan-19	45.77	0.00	0.37	0.50	0.18	0.00	0.00	0.00	2.15	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.01	0.42	0.00	0.25	0.25	0.13	0.13	0.09	0.00	0.23	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0094	0.0094	46.27	6.24	**52.50**	**103**	45.77
6-Jan-19	46.07	0.00	0.37	0.52	0.18	0.00	0.00	0.00	2.18	0.00	0.00	0.00	0.92	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.01	0.43	0.00	0.25	0.25	0.14	0.14	0.08	0.00	0.22	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0082	0.0082	46.59	5.87	**52.46**	**100**	46.07
7-Jan-19	46.17	0.00	0.35	0.53	0.18	0.00	0.00	0.00	2.16	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.01	0.43	0.00	0.26	0.26	0.15	0.15	0.06	0.00	0.25	0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0072	0.0072	46.70	6.37	**53.07**	**107**	46.17
8-Jan-19	46.11	0.00	0.35	0.52	0.18	0.00	0.00	0.00	2.11	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.01	0.43	0.00	0.27	0.27	0.14	0.14	0.06	0.00	0.24	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0065	0.0065	46.63	6.36	**52.99**	**102**	46.11
9-Jan-19	46.45	0.00	0.42	0.50	0.19	0.00	0.00	0.00	2.15	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.01	0.43	0.00	0.26	0.26	0.14	0.14	0.05	0.00	0.24	0.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0060	0.0060	46.96	6.06	**53.02**	**110**	46.45
10-Jan-19	47.16	0.00	0.34	0.49	0.19	0.00	0.00	0.00	2.14	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.00	0.42	0.00	0.29	0.29	0.15	0.15	0.04	0.00	0.24	0.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0054	0.0054	47.65	6.18	**53.82**	**109**	47.16
11-Jan-19	47.78	0.00	0.39	0.50	0.20	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.43	0.00	0.27	0.27	0.15	0.15	0.04	0.00	0.24	0.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0051	0.0051	48.29	6.25	**54.54**	**111**	47.78
12-Jan-19	49.00	0.00	0.38	0.52	0.21	0.00	0.00	0.00	2.32	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.00	0.45	0.00	0.29	0.29	0.16	0.16	0.65	0.00	0.23	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0048	0.0048	49.52	7.02	**56.53**	**120**	49.00
13-Jan-19	49.98	0.00	0.36	0.53	0.22	0.00	0.00	0.00	2.35	0.00	0.00	0.00	0.79	0.00	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.00	0.45	0.00	0.28	0.28	0.16	0.16	0.80	0.00	0.24	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0045	0.0045	50.51	7.16	**57.67**	**116**	49.98
14-Jan-19	49.81	0.00	0.34	0.54	0.22	0.00	0.00	0.00	2.31	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00	0.46	0.00	0.00	0.00	0.44	0.00	0.26	0.26	0.15	0.15	0.86	0.00	0.26	0.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0042	0.0042	50.35	7.36	**57.70**	**110**	49.81
15-Jan-19	49.32	0.00	0.33	0.51	0.22	0.00	0.00	0.00	2.27	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.43	0.00	0.28	0.28	0.14	0.14	0.89	0.00	0.24	0.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0039	0.0039	49.83	6.98	**56.81**	**107**	49.32
16-Jan-19	48.82	0.00	0.36	0.50	0.22	0.00	0.00	0.00	2.30	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0.41	0.00	0.00	0.00	0.43	0.00	0.29	0.29	0.15	0.15	0.95	0.00	0.23	0.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0036	0.0036	49.32	7.41	**56.73**	**103**	48.82
17-Jan-19	49.98	0.00	0.39	0.51	0.24	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.45	0.00	0.29	0.29	0.16	0.16	1.03	0.00	0.06	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0035	0.0035	50.50	4.67	**55.17**	**108**	49.98
18-Jan-19	47.04	0.00	0.36	0.50	0.23	0.00	0.00	0.00	2.05	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.00	0.44	0.00	0.28	0.28	0.15	0.15	1.03	0.00	0.22	0.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0033	0.0033	47.54	6.99	**54.54**	**108**	47.04
19-Jan-19	50.08	0.00	0.41	0.55	0.18	0.00	0.00	0.00	2.04	0.00	0.00	0.00	0.81	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.50	0.00	0.34	0.34	0.18	0.18	0.77	0.00	0.21	0.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0032	0.0032	50.62	6.93	**57.55**	**105**	50.08
20-Jan-19	55.17	0.00	0.42	0.62	0.10	0.00	0.00	0.00	1.88	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00	0.41	0.00	0.00	0.00	0.22	0.00	0.36	0.36	0.19	0.19	0.37	0.00	0.25	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0032	0.0032	55.79	6.22	**62.01**	**121**	55.17
21-Jan-19	52.88	0.00	0.38	0.61	0.07	0.00	0.00	0.00	1.75	0.00	0.00	0.00	0.72	0.00	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.16	0.00	0.35	0.35	0.18	0.18	0.25	0.00	0.26	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0030	0.0030	53.49	6.04	**59.53**	**114**	52.88
22-Jan-19	50.62	0.00	0.34	0.57	0.05	0.00	0.00	0.00	1.57	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0.41	0.00	0.00	0.00	0.11	0.00	0.31	0.31	0.17	0.17	0.18	0.00	0.27	0.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0028	0.0028	51.19	5.38	**56.57**	**135**	50.62
23-Jan-19	47.98	0.00	0.37	0.53	0.04	0.00	0.00	0.00	1.51	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0.42	0.00	0.00	0.00	0.09	0.00	0.31	0.31	0.16	0.16	0.14	0.00	0.25	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0026	0.0026	48.52	5.32	**53.84**	**121**	47.98
24-Jan-19	47.56	0.00	0.41	0.51	0.04	0.00	0.00	0.00	1.45	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.00	0.08	0.00	0.31	0.31	0.16	0.16	0.11	0.00	0.23	0.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0024	0.0024	48.07	5.25	**53.32**	**144**	47.56
25-Jan-19	47.58	0.00	0.47	0.50	0.03	0.00	0.00	0.00	1.43	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	0.00	0.46	0.00	0.00	0.00	0.07	0.00	0.31	0.31	0.15	0.15	0.10	0.00	0.22	0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0023	0.0023	48.08	5.24	**53.33**	**155**	47.58
26-Jan-19	46.18	0.00	0.54	0.51	0.03	0.00	0.00	0.00	1.45	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.06	0.00	0.31	0.31	0.15	0.15	0.08	0.00	0.05	0.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0022	0.0022	46.69	5.26	**51.95**	**130**	46.18
27-Jan-19	45.15	0.00	0.56	0.51	0.03	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.05	0.00	0.28	0.28	0.15	0.15	0.07	0.00	0.04	0.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0021	0.0021	45.66	4.86	**50.52**	**121**	45.15
28-Jan-19	44.81	0.00	0.57	0.52	0.02	0.00	0.00	0.00	1.37	0.00	0.00	0.00	0.73	0.00	0.00	0.00	0.00	0.00	0.45	0.00	0.00	0.00	0.05	0.00	0.27	0.27	0.15	0.15	0.07	0.00	0.03	0.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0020	0.0020	45.34	4.95	**50.28**	**128**	44.81
29-Jan-19	44.83	0.00	0.61	0.53	0.02	0.00	0.00	0.00	1.40	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.05	0.00	0.31	0.31	0.17	0.17	0.06	0.00	0.02	0.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0019	0.0019	45.36	5.00	**50.36**	**133**	44.83
30-Jan-19	43.71	0.00	0.60	0.53	0.02	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.78	0.00	0.00	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.04	0.00	0.32	0.32	0.18	0.18	0.05	0.00	0.02	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0018	0.0018	44.23	5.14	**49.37**	**119**	43.71
31-Jan-19	42.96	0.00	0.51	0.49	0.02	0.00	0.00	0.00	1.35	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.00	0.04	0.00	0.31	0.31	0.16	0.16	0.05	0.00	0.02	0.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0017	0.0017	43.45	4.84	**48.29**	**114**	42.96
																																													1469.34

Footnote: Per 12/21/1984 Stipulation between PWWSP Applicants and Co Springs entered in 84CW179 and Stipulation of SECWCD, Co Springs, PBWW & AVDA entered in 84CW56 & 88CW43, from Nov 15 through Mar 15, Colorado Springs may exchange return flows into Pueblo Reservoir (up to 17,000 ac-ft), but no other exchange of Fry-Ark return flows relying on SECWCD's 02/10/1939 exchange decree may be made into Pueblo Reservoir.

Fountain Creek Exchanges Into Pueblo Reservoir
Comparison of Computed vs. Stored Return Flows
NOTE: Am NOTE: Amounts below are in CFS.

2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
	🟨	Exchange		🟩	Augmentation			Storable Exchanges and Augmentation water delivered to mouth computed through the Fountain Creek Transit Loss Program																																						Storeable e
Line #	5	6	17	21	27	47	60	72	80	81	84	87	91	92	96	98	102	104	107	108	109	112	121	124	136	137	148	149	156	162	165	168	176	177	178	179	192	195	196	197	198					5
Date (CFS)	CSU0004 - CSU Transmountain	CSU0005 - CSU Fry/Ark	CWP0006-Woodmoor Aug to CWPDA Node 34	STH0001 - Stratmoor Fry/Ark	CWP0018 - FMIC Aug for CWPDA	CWP0020 - Sp Crk Aug For Edison School	WFS0014 - Big Johnson "2250" Crews Gulch	AGA0012-CSU Aug for AGUA Node 34	CWP0024 - Security Aug for CWPDA	WFS0006 - Security Fry/Ark Exchange to Pueblo	CWP 0069 Sec Lock Ditch to CWPDA node 34	CWP 0072 Sec Chilcott Ditch to CWPDA Node 34	CWP0030 - Widefld Aug for CWPDA Node 34	WFS0004 - Widefield Fry/Ark Exchange to Pueblo	Crews Glch for CWPDA Node 34	WFS0011 - Widefield Crews Gulch Exch to Pueblo	CWP0036 - Ftn Crews Glc for CWPDA Node 34	WFS0008 - Fountain Crews Gulch Exch to Pueblo	CWP0042 - Fountain Aug for CWPDA Node 34	WFS0001 - Fountain Fry/Ark Exch to Pueblo	WFS0002- Ftn if and when Exch to Pueblo	Chilcott Ditch to CWPDA 34	CWP0066 Cody Lauglin to CWPDA Node 34	CWP0078-Cody Owen & Hall to CWPDA Node 34	AGA0022-Donal Aug for AUGA Node 34	AGA0024-Donala Aug for MAGUA Node 34	AGA0035-TriView aug for AGUA Node 34	AGA0036-TriView Aug for MAGUA Node 34	CWP0084-Colo Centre FMIC Aug to CWPDA Node 34	CWP0090-CCMD Robinson Aug to CWPDA Node 34	CWP0093-CCMD Reusablefl Aug to CWPDA Node 34	CWP0096-Fountain Lower Plant Aug to CWPDA Node 34	CWP0012-Donala Aug to CWPDA Node 34	WFS0017-Fountain Chilcott Exchange to Pueblo	WFS0018-Security Chilcott Exchange to Pueblo	SEC-0000 Total SEWCD Exchange to Pueblo	CWP0102-Stratmoor Laughlin to CWPDA Node 34	CWP0105 Ftn Miller Ditch Aug to CWPDA Node 34	WFS0019 Ftn Miller Ditch Exchange to Pueblo Reservoir	AGA0047-Tri-view FMIC Aug for AGUA Node 34	AGA0048-Tri-view FMIC Aug for MAGUA Node 34	Total Exchange	Total Augmentation to Arkansas	**TOTAL FLOWS TO ARKANSAS**	**Physical Check FouMouCo**	CSU0004 - CSU Transi
1-Feb-19	42.57	0.00	0.48	0.48	0.02	0.00	0.00	0.00	1.33	0.00	0.00	0.00	0.70	0.00	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.00	0.04	0.00	0.30	0.30	0.16	0.16	0.05	0.00	0.20	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0016	0.0016	43.05	4.82	**47.87**	**130**	42.57
2-Feb-19	42.73	0.00	0.42	0.47	0.02	0.00	0.00	0.00	1.34	0.00	0.00	0.00	0.81	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.00	0.03	0.00	0.30	0.30	0.16	0.16	0.04	0.00	0.21	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0015	0.0015	43.20	4.85	**48.05**	**128**	42.73
3-Feb-19	43.17	0.00	0.48	0.48	0.02	0.00	0.00	0.00	1.34	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.03	0.00	0.28	0.28	0.15	0.15	0.04	0.00	0.23	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0015	0.0015	43.64	4.79	**48.43**	**124**	43.17
4-Feb-19	43.84	0.00	0.53	0.50	0.01	0.00	0.00	0.00	1.33	0.00	0.00	0.00	0.72	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.03	0.00	0.28	0.28	0.15	0.15	0.04	0.00	0.24	0.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0014	0.0014	44.34	4.80	**49.13**	**135**	43.84
5-Feb-19	44.36	0.00	0.55	0.50	0.01	0.00	0.00	0.00	1.35	0.00	0.00	0.00	0.81	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.03	0.00	0.32	0.32	0.17	0.17	0.03	0.00	0.25	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0013	0.0013	44.86	5.02	**49.88**	**114**	44.36
6-Feb-19	44.10	0.00	0.60	0.50	0.01	0.00	0.00	0.00	1.38	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.03	0.00	0.32	0.32	0.18	0.18	0.03	0.00	0.23	0.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0013	0.0013	44.60	4.96	**49.57**	**130**	44.10
7-Feb-19	43.40	0.00	0.56	0.48	0.01	0.00	0.00	0.00	1.37	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.03	0.00	0.29	0.29	0.18	0.18	0.03	0.00	0.23	0.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0012	0.0012	43.88	4.95	**48.83**	**133**	43.40
8-Feb-19	42.92	0.00	0.52	0.48	0.01	0.00	0.00	0.00	1.38	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.03	0.00	0.28	0.28	0.17	0.17	0.03	0.00	0.22	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0011	0.0011	43.40	4.69	**48.09**	**118**	42.92
9-Feb-19	42.61	0.00	0.50	0.52	0.01	0.00	0.00	0.00	1.37	0.00	0.00	0.00	0.78	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.02	0.00	0.27	0.27	0.18	0.18	0.03	0.00	0.05	0.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0011	0.0011	43.12	4.53	**47.66**	**121**	42.61
10-Feb-19	42.82	0.00	0.44	0.51	0.01	0.00	0.00	0.00	1.36	0.00	0.00	0.00	0.69	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.02	0.00	0.25	0.25	0.18	0.18	0.03	0.00	0.03	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0010	0.0010	43.32	4.26	**47.59**	**135**	42.82
11-Feb-19	43.01	0.00	0.41	0.51	0.01	0.00	0.00	0.00	1.34	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.00	0.02	0.00	0.24	0.24	0.17	0.17	0.03	0.00	0.02	0.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0010	0.0010	43.53	4.48	**48.00**	**134**	43.01
12-Feb-19	43.11	0.00	0.44	0.49	0.07	0.00	0.00	0.00	1.36	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.00	0.20	0.00	0.25	0.25	0.17	0.17	0.02	0.00	0.02	0.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0009	0.0009	43.61	4.65	**48.26**	**132**	43.11
13-Feb-19	42.35	0.00	0.52	0.47	0.13	0.00	0.00	0.00	1.84	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.24	0.00	0.26	0.26	0.16	0.16	0.02	0.00	0.02	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0008	0.0008	42.83	5.56	**48.39**	**151**	42.35
14-Feb-19	42.36	0.00	0.59	0.47	0.15	0.00	0.00	0.00	1.97	0.00	0.00	0.00	0.79	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.27	0.00	0.27	0.27	0.17	0.17	0.02	0.00	0.01	0.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0008	0.0008	42.83	5.67	**48.50**	**124**	42.36
15-Feb-19	43.55	0.00	0.65	0.48	0.16	0.00	0.00	0.00	2.07	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.29	0.00	0.29	0.29	0.17	0.17	0.02	0.00	0.01	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0008	0.0008	44.02	6.12	**50.14**	**123**	43.55
16-Feb-19	43.90	0.00	0.68	0.47	0.18	0.00	0.00	0.00	2.15	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.30	0.00	0.27	0.27	0.17	0.17	0.02	0.00	0.01	0.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0007	0.0007	44.37	5.94	**50.31**	**124**	43.90
17-Feb-19	44.00	0.00	0.68	0.46	0.19	0.00	0.00	0.00	2.16	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00	0.00	0.41	0.00	0.00	0.00	0.29	0.00	0.26	0.26	0.17	0.17	0.02	0.00	0.01	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0007	0.0007	44.46	6.11	**50.57**	**126**	44.00
18-Feb-19	44.62	0.00	0.70	0.47	0.18	0.00	0.00	0.00	2.15	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.30	0.00	0.26	0.26	0.17	0.17	0.02	0.00	0.01	0.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0006	0.0006	45.09	6.06	**51.15**	**123**	44.62
19-Feb-19	43.31	0.00	0.70	0.47	0.19	0.00	0.00	0.00	2.16	0.00	0.00	0.00	0.79	0.00	0.00	0.00	0.00	0.00	0.41	0.00	0.00	0.00	0.30	0.00	0.26	0.26	0.18	0.18	0.02	0.00	0.01	0.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0006	0.0006	43.78	6.23	**50.01**	**140**	43.31
20-Feb-19	43.28	0.00	0.71	0.47	0.20	0.00	0.00	0.00	2.19	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.00	0.30	0.00	0.27	0.27	0.18	0.18	0.02	0.00	0.01	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0005	0.0005	43.75	6.17	**49.92**	**147**	43.28
21-Feb-19	42.74	0.00	0.69	0.47	0.20	0.00	0.00	0.00	2.23	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.31	0.00	0.27	0.27	0.20	0.20	0.02	0.00	0.01	0.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0005	0.0005	43.21	6.62	**49.83**	**123**	42.74
22-Feb-19	42.72	0.00	0.67	0.45	0.20	0.00	0.00	0.00	2.18	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00	0.45	0.00	0.00	0.00	0.30	0.00	0.26	0.26	0.18	0.18	0.02	0.00	0.01	0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0004	0.0004	43.17	6.25	**49.42**	**128**	42.72
23-Feb-19	43.28	0.00	0.65	0.43	0.20	0.00	0.00	0.00	2.17	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.30	0.00	0.26	0.26	0.20	0.20	0.02	0.00	0.01	0.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0004	0.0004	43.71	6.35	**50.06**	**136**	43.28
24-Feb-19	45.16	0.00	0.71	0.47	0.21	0.00	0.00	0.00	2.25	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.00	0.31	0.00	0.28	0.28	0.23	0.23	0.02	0.00	0.01	0.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0004	0.0004	45.63	6.59	**52.22**	**180**	45.16
25-Feb-19	46.09	0.00	0.66	0.48	0.19	0.00	0.00	0.00	2.14	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.30	0.00	0.26	0.26	0.23	0.23	0.01	0.00	0.01	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0003	0.0003	46.57	6.54	**53.11**	**133**	46.09
26-Feb-19	48.32	0.00	0.48	0.48	0.19	0.00	0.00	0.00	2.16	0.00	0.00	0.00	0.70	0.00	0.00	0.00	0.00	0.00	0.42	0.00	0.00	0.00	0.31	0.00	0.27	0.27	0.29	0.29	0.01	0.00	0.01	0.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0003	0.0003	48.79	6.22	**55.01**	**139**	48.32
27-Feb-19	48.96	0.00	0.40	0.49	0.20	0.00	0.00	0.00	2.23	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.00	0.32	0.00	0.27	0.27	0.31	0.31	0.01	0.00	0.01	0.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0002	0.0002	49.45	6.46	**55.91**	**138**	48.96
28-Feb-19	48.50	0.00	0.46	0.47	0.20	0.00	0.00	0.00	2.24	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.32	0.00	0.22	0.22	0.26	0.26	0.01	0.00	0.01	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0002	0.0002	48.97	6.57	**55.54**	**135**	48.50
																																										0.00	0.00	**0.00**		0.00
																																										0.00	0.00	**0.00**		0.00
																																										0.00	0.00	**0.00**		0.00
																																														1231.77

Footnote: Per 12/21/1984 Stipulation between PWWSP Applicants and Co Springs entered in 84CW179 and Stipulation of SECWCD, Co Springs, PBWW & AVDA entered in 84CW56 & 88CW43, from Nov 15 through Mar 15, Colorado Springs may exchange return flows into Pueblo Reservoir (up to 17,000 ac-ft), but no other exchange of Fry-Ark return flows relying on SECWCD's 02/10/1939 exchange decree may be made into Pueblo Reservoir.

	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
			Exchange			Augmentation			Storable Exchanges and Augmentation water delivered to mouth computed through the Fountain Creek Transit Loss Program																																										Storeable exch
Line #			5	6	17	21	27	47	60	72	80	81	84	87	91	92	96	98	102	104	107	108	109	112	121	124	136	137	148	149	156	162	165	168	176	177	178	179	192	195	196	197	198					5
Date			CSU0004 - CSU Transmountain	CSU0005 - CSU Fry/Ark	CWP0006-Woodmoor Aug to CWPDA Node 34	STH0001 - Stratmoor Fry/Ark	CWP0018 - FMIC Aug for CWPDA Node 34	CWP0020 - Sp Crk Aug For Edison School	WFS0014 - Big Johnson "2250" Crews Gulch	AGA0012-CSU Aug for AGUA Node 34	CWP0024 - Security Aug for CWPDA	WFS0006 - Security Fry/Ark Exchange to Pueblo	CWP0069 - Sec Lock Ditch to CWPDA node 34	CWP0072 - Sec Chilcott Ditch to CWPDA Node 34	CWP0030 - Widefld Aug for CWPDA Node 34	WFS0004 - Widefield Fry/Ark Exchange to Pueblo	CWP0048 - Wdf Crews Glch for CWPDA Node 34	WFS0011 - Widefield Crews Gulch Exchange to Pueblo	CWP0036 - Ftn Crews Glc for CWPDA Node 34	WFS0008 - Fountain Crews Gulch Exchange to Pueblo	CWP0042 - Fountain Aug for CWPDA Node 34	WFS0001 - Fountain Fry/Ark Exchange to Pueblo	WFS0002- Ftn if and when Exch to Pueblo ...	Chilcott Ditch to CWPDA 34	CWP0066 Cody Laughlin to CWPDA Node 34	CWP0078-Cody Owen & Hall to CWPDA Node 34	AGA0022-Donal Aug for AUGA Node 34	AGA0024-Donala Aug for MAGUA Node 34	AGA0035-TriView aug for AGUA Node 34	AGA0036-TriView Aug for MAGUA Node 34	CWP0084-Colo Centre FMIC Aug to CWPDA Node 34	CWP0090-CCMD Robinson Aug to CWPDA Node 34	CWP0093-CCMD Reusable\ Aug to CWPDA Node 34	CWP0096-Fountain Lower Plant Aug to CWPDA Node 34	CWP0012-Donala Aug to CWPDA Node 34	WFS0017-Fountain Chilcott Exchange to Pueblo	WFS0018-Security Chilcott Exchange to Pueblo	SEC-0000 Total SEWCD Exchange to Pueblo	CWP0102-Stratmoor Laughlin to CWPDA Node 34	CWP0105 Ftn Miller Ditch Aug to CWPDA Node 34	WFS0019 Ftn Miller Ditch Exchange to Pueblo Reservoir	AGA0047-Tri-view FMIC Aug for AGUA Node 34	AGA0048-Tri-view FMIC Aug for MAGUA Node 34	Total Exchange	Total Augmentation to Arkansas	**TOTAL FLOWS TO ARKANSAS**	**Physical Check FouMouCo**	CSU0004 - CSU Transmountain
(CFS)																																															
1-Mar-19	46.73	0.00	0.55	0.49	0.20	0.00	0.00	0.00	2.28	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.33	0.00	0.21	0.21	0.25	0.25	0.01	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0002	0.0002	47.22	6.72	**53.94**	**153**	46.73
2-Mar-19	44.77	0.00	0.54	0.48	0.22	0.00	0.00	0.00	2.37	0.00	0.00	0.00	0.93	0.00	0.00	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.31	0.00	0.21	0.21	0.26	0.26	0.01	0.00	0.00	1.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0001	0.0001	45.26	7.00	**52.26**	**138**	44.77
3-Mar-19	43.89	0.00	0.55	0.47	0.22	0.00	0.00	0.00	2.35	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00	0.00	0.00	0.56	0.00	0.00	0.00	0.30	0.00	0.20	0.20	0.24	0.24	0.01	0.00	0.00	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0001	0.0001	44.37	6.72	**51.08**	**134**	43.89
4-Mar-19	42.77	0.00	0.56	0.49	0.22	0.00	0.00	0.00	2.33	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.30	0.00	0.20	0.20	0.24	0.24	0.01	0.00	0.00	1.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0001	0.0001	43.26	6.94	**50.20**	**152**	42.77
5-Mar-19	42.73	0.00	0.59	0.48	0.23	0.00	0.00	0.00	2.50	0.00	0.00	0.00	0.86	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.29	0.00	0.21	0.21	0.25	0.25	0.01	0.00	0.00	1.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0001	0.0001	43.21	7.02	**50.23**	**152**	42.73
6-Mar-19	42.61	0.00	0.52	0.46	0.25	0.00	0.00	0.00	2.64	0.00	0.00	0.00	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.29	0.00	0.22	0.22	0.26	0.26	0.01	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0001	0.0001	43.07	7.41	**50.47**	**144**	42.61
7-Mar-19	43.87	0.00	0.38	0.47	0.29	0.00	0.00	0.00	2.83	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.29	0.00	0.19	0.19	0.32	0.32	0.01	0.00	0.00	1.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0001	0.0001	44.35	7.31	**51.65**	**178**	43.87
8-Mar-19	43.50	0.00	0.26	0.47	0.29	0.00	0.00	0.00	2.79	0.00	0.00	0.00	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.56	0.00	0.00	0.00	0.30	0.00	0.17	0.17	0.31	0.31	0.01	0.00	0.00	0.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0001	0.0001	43.96	7.72	**51.68**	**186**	43.50
9-Mar-19	42.48	0.00	0.18	0.45	0.29	0.00	0.00	0.00	2.84	0.00	0.00	0.00	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.29	0.00	0.15	0.15	0.29	0.29	0.01	0.00	0.00	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0001	0.0001	42.93	8.03	**50.96**	**150**	42.48
10-Mar-19	41.27	0.00	0.14	0.46	0.28	0.00	0.00	0.00	2.79	0.00	0.00	0.00	1.91	0.00	0.00	0.00	0.00	0.00	0.00	0.79	0.00	0.00	0.00	0.29	0.00	0.15	0.15	0.25	0.25	0.01	0.00	0.00	1.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0001	0.0001	41.72	8.36	**50.09**	**159**	41.27
11-Mar-19	40.74	0.00	0.11	0.46	0.28	0.00	0.00	0.00	2.78	0.00	0.00	0.00	1.99	0.00	0.00	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.28	0.00	0.14	0.14	0.24	0.24	0.01	0.00	0.00	1.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.0000	41.20	8.37	**49.57**	**142**	40.74
12-Mar-19	40.87	0.00	0.10	0.44	0.28	0.00	0.00	0.00	2.74	0.00	0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.73	0.00	0.00	0.00	0.28	0.00	0.15	0.15	0.22	0.22	0.01	0.00	0.00	1.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.0000	41.30	8.29	**49.59**	**159**	40.87
13-Mar-19	43.98	0.00	0.15	0.48	0.31	0.00	0.00	0.00	3.00	0.00	0.00	0.00	2.16	0.00	0.00	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.31	0.00	0.18	0.18	0.27	0.27	0.97	0.00	0.00	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.0000	44.46	10.07	**54.53**	**568**	43.98
14-Mar-19	44.44	0.00	0.20	0.63	0.32	0.00	0.00	0.00	3.24	0.00	0.00	0.00	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.00	0.00	0.00	0.34	0.00	0.22	0.22	0.31	0.31	1.20	0.00	0.00	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.0000	45.07	11.17	**56.24**	**726**	44.44
15-Mar-19	41.86	0.00	0.33	0.61	0.32	0.00	0.00	0.00	3.30	0.00	0.00	0.00	2.46	0.00	0.00	0.00	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.36	0.00	0.22	0.22	0.32	0.32	1.25	0.00	0.00	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.0000	42.47	11.37	**53.85**	**382**	41.86
16-Mar-19	39.99	0.00	0.24	0.47	0.28	0.00	0.00	0.00	2.87	0.00	0.00	0.00	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.78	0.00	0.00	0.00	0.30	0.00	0.18	0.18	0.26	0.26	1.15	0.00	0.00	1.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000	0.0000	40.46	10.06	**50.51**	**276**	39.99
17-Mar-19	38.27	0.00	0.27	0.44	0.29	0.00	0.00	0.00	2.80	0.00	0.00	0.00	2.03	0.00	0.00	0.00	0.00	0.00	0.00	0.81	0.00	0.00	0.00	0.27	0.00	0.18	0.18	0.24	0.24	1.27	0.00	0.00	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1026	0.1026	38.71	10.17	**48.89**	**235**	38.27
18-Mar-19	38.41	0.00	0.28	0.46	0.30	0.00	0.00	0.00	2.80	0.00	0.00	0.00	1.87	0.00	0.00	0.00	0.00	0.00	0.00	0.72	0.00	0.00	0.00	0.27	0.00	0.19	0.19	0.25	0.25	1.30	0.00	0.00	1.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1197	0.1197	38.87	10.06	**48.93**	**220**	38.41
19-Mar-19	38.52	0.00	0.18	0.45	0.30	0.00	0.00	0.00	3.24	0.00	0.00	0.00	2.15	0.00	0.00	0.00	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.28	0.00	0.20	0.20	0.29	0.29	1.35	0.00	0.00	1.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1323	0.1323	38.97	10.70	**49.67**	**223**	38.52
20-Mar-19	40.72	0.00	0.15	0.45	0.29	0.00	0.00	0.00	3.27	0.00	0.00	0.00	1.64	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0.00	0.00	0.00	0.28	0.00	0.21	0.21	0.22	0.22	1.30	0.00	0.00	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1405	0.1405	41.17	10.02	**51.19**	**183**	40.72
21-Mar-19	42.29	0.00	0.09	0.44	0.28	0.00	0.00	0.00	3.21	0.00	0.00	0.00	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.27	0.00	0.15	0.15	0.20	0.20	1.24	0.00	0.00	1.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1401	0.1401	42.73	9.31	**52.03**	**125**	42.29
22-Mar-19	42.82	0.00	0.08	0.44	0.27	0.00	0.00	0.00	3.20	0.00	0.00	0.00	1.73	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.28	0.00	0.14	0.14	0.18	0.18	1.22	0.00	0.00	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1442	0.1442	43.27	9.79	**53.05**	**138**	42.82
23-Mar-19	44.25	0.00	0.06	0.44	0.27	0.00	0.00	0.00	3.27	0.00	0.00	0.00	2.02	0.00	0.00	0.00	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.28	0.00	0.12	0.12	0.21	0.21	1.21	0.00	0.00	1.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1503	0.1503	44.69	9.92	**54.61**	**130**	44.25
24-Mar-19	44.73	0.00	0.06	0.47	0.28	0.00	0.00	0.00	3.42	0.00	0.00	0.00	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.30	0.00	0.13	0.13	0.24	0.24	1.29	0.00	0.00	1.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1577	0.1577	45.19	10.37	**55.56**	**202**	44.73
25-Mar-19	43.70	0.00	0.05	0.46	0.27	0.00	0.00	0.00	3.31	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.79	0.00	0.00	0.00	0.29	0.00	0.13	0.13	0.22	0.22	1.23	0.00	0.00	1.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1535	0.1535	44.16	10.45	**54.60**	**167**	43.70
26-Mar-19	43.15	0.00	0.05	0.42	0.30	0.00	0.00	0.00	3.37	0.00	0.00	0.00	2.03	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.27	0.00	0.12	0.12	0.21	0.21	1.39	0.00	0.00	1.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1486	0.1486	43.58	10.54	**54.11**	**158**	43.15
27-Mar-19	42.67	0.00	0.04	0.42	0.35	0.00	0.00	0.00	3.65	0.00	0.00	0.00	2.09	0.00	0.00	0.00	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.28	0.00	0.12	0.12	0.20	0.20	1.65	0.00	0.00	1.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1529	0.1529	43.10	11.19	**54.29**	**151**	42.67
28-Mar-19	42.93	0.00	0.04	0.45	0.33	0.00	0.00	0.00	3.64	0.00	0.00	0.00	2.34	0.00	0.00	0.00	0.00	0.00	0.00	0.79	0.00	0.00	0.00	0.30	0.00	0.12	0.12	0.19	0.19	1.54	0.00	0.00	1.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1621	0.1621	43.37	11.20	**54.57**	**152**	42.93
29-Mar-19	42.90	0.00	0.04	0.43	0.29	0.00	0.00	0.00	3.41	0.00	0.00	0.00	2.32	0.00	0.00	0.00	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.29	0.00	0.12	0.12	0.18	0.18	1.35	0.00	0.00	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1593	0.1593	43.33	10.85	**54.19**	**134**	42.90
30-Mar-19	43.64	0.00	0.04	0.50	0.30	0.00	0.00	0.00	3.61	0.00	0.00	0.00	2.45	0.00	0.00	0.00	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.31	0.00	0.11	0.11	0.20	0.20	1.42	0.00	0.00	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1701	0.1701	44.14	11.32	**55.46**	**186**	43.64
31-Mar-19	42.91	0.00	0.03	0.52	0.29	0.00	0.00	0.00	3.54	0.00	0.00	0.00	2.44	0.00	0.00	0.00	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.30	0.00	0.12	0.12	0.20	0.20	1.37	0.00	0.00	1.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1680	0.1680	43.43	11.16	**54.59**	**172**	42.91
																																														1318.41

Footnote: Per 12/21/1984 Stipulation between PWWSP Applicants and Co Springs entered in 84CW179 and Stipulation of SECWCD, Co Springs, PBWW & AVDA entered in 84CW56 & 88CW43, from Nov 15 through Mar 15, Colorado Springs may exchange return flows into Pueblo Reservoir (up to 17,000 ac-ft), but no other exchange of Fry-Ark return flows relying on SECWCD's 02/10/1939 exchange decree may be made into Pueblo Reservoir.

NOTE: When adding a new column, copy over formulas in rows 375:385 (which pull from MASTER) to feed data to the				Acct 4	Acct 6			55			53
Label 1			JMR Conservation Storage	JMR Conservation Storage	JMR Other Waters	Amity (Great Plains)	CPW	Kansas	LA Consolidated	Offset Consumable	LAWMA_CSU
Label 2			Summer	Winter	Winter Water Holding Account	Section III (Acc-32)	Permenent Pool	Storage Charge Subaccount	Art III	Downstream	CSU_RF_Fountain Creek
Label 3			Native Storage	Native Storage	Native Storage	Native Storage	Muddy Creek (Transfer)		(From Meredith)		Offset Storage (DOWNSTREAM)
Date	Day	YrMo	vation Storage Summer Na	rvation Storage Winter Nat	s Winter Water Holding Accou	Plains) Section III (Acc-32) I	menent Pool Muddy Creek	as Storage Charge Subacc	nsolidated Art III (From Me	set Consumable Downstrea	J_RF_Fountain Creek Offset Storage
1/22/2019 0:00:00	Tue	201901		319.50	70.76						
1/23/2019 0:00:00	Wed	201901		106.19	70.09						
1/24/2019 0:00:00	Thu	201901		325.74	64.56						
1/25/2019 0:00:00	Fri	201901		106.90	69.42						
1/26/2019 0:00:00	Sat	201901		304.85	115.24			40.24			
1/27/2019 0:00:00	Sun	201901		82.82	106.27			58.26			
1/28/2019 0:00:00	Mon	201901		374.76	101.07			56.88			
1/29/2019 0:00:00	Tue	201901		161.97	99.04			56.72			
1/30/2019 0:00:00	Wed	201901		165.55	94.91			55.62			
1/31/2019 0:00:00	Thu	201901		262.36	91.30			54.24			
2/1/2019 0:00:00	Fri	201902		266.64	84.72			53.57			
2/2/2019 0:00:00	Sat	201902		273.20	84.03			53.45			
2/3/2019 0:00:00	Sun	201902		204.35	84.51			52.56			
2/4/2019 0:00:00	Mon	201902		62.57	82.80			18.46			33.06
2/5/2019 0:00:00	Tue	201902		502.32	76.23						50.91
2/6/2019 0:00:00	Wed	201902		208.40	80.21						50.88
2/7/2019 0:00:00	Thu	201902		2.32	0.88						51.29
2/8/2019 0:00:00	Fri	201902		282.78	79.73						52.00
2/9/2019 0:00:00	Sat	201902		350.64	82.21						52.68
2/10/2019 0:00:00	Sun	201902		137.22	81.64						52.69
2/11/2019 0:00:00	Mon	201902		348.57	85.99						52.02
2/12/2019 0:00:00	Tue	201902		127.05	90.19						51.36
2/13/2019 0:00:00	Wed	201902		343.51	94.19						50.92
2/14/2019 0:00:00	Thu	201902		125.83	93.85						50.97
2/15/2019 0:00:00	Fri	201902		58.65	89.80						51.21
2/16/2019 0:00:00	Sat	201902		423.73	86.59						51.37
2/17/2019 0:00:00	Sun	201902		61.14	87.79						50.80
2/18/2019 0:00:00	Mon	201902		281.90	82.36						50.50
2/19/2019 0:00:00	Tue	201902		285.22	79.40						51.45
2/20/2019 0:00:00	Wed	201902		134.58	83.33						52.20
2/21/2019 0:00:00	Thu	201902		276.40	90.08						52.42
2/22/2019 0:00:00	Fri	201902		273.84	92.33						52.95
2/23/2019 0:00:00	Sat	201902		652.89	78.86						52.16
2/24/2019 0:00:00	Sun	201902		135.43	85.37						51.61
2/25/2019 0:00:00	Mon	201902		281.04	87.26						51.18
2/26/2019 0:00:00	Tue	201902		286.48	82.15						50.95
2/27/2019 0:00:00	Wed	201902		140.41	81.87						51.38
2/28/2019 0:00:00	Thu	201902		390.53	81.60						53.10
3/1/2019 0:00:00	Fri	201903		22.98	81.80						54.58
3/2/2019 0:00:00	Sat	201903		289.46	103.79						56.72
3/3/2019 0:00:00	Sun	201903		219.46	102.44						58.12
3/4/2019 0:00:00	Mon	201903		74.64	98.39						58.01
3/5/2019 0:00:00	Tue	201903		142.19	98.39						56.42
3/6/2019 0:00:00	Wed	201903		139.05	103.79						54.16
3/7/2019 0:00:00	Thu	201903		322.89	105.81						52.68
3/8/2019 0:00:00	Fri	201903		349.90	110.53						51.44
3/9/2019 0:00:00	Sat	201903		223.20	107.16						50.97
3/10/2019 0:00:00	Sun	201903		80.39	105.81						50.85
3/11/2019 0:00:00	Mon	201903		391.64	98.39						51.80
3/12/2019 0:00:00	Tue	201903		543.79	96.37						52.01
3/13/2019 0:00:00	Wed	201903		926.59	95.03						51.05
3/14/2019 0:00:00	Thu	201903		97.61	97.72						49.68
3/15/2019 0:00:00	Fri	201903		0.00	0.00						48.78
3/16/2019 0:00:00	Sat	201903		617.74							48.68
3/17/2019 0:00:00	Sun	201903		650.29							51.20
3/18/2019 0:00:00	Mon	201903		956.03							52.80
3/19/2019 0:00:00	Tue	201903		685.48							17.66
3/20/2019 0:00:00	Wed	201903		631.33							0.00
3/21/2019 0:00:00	Thu	201903		633.48							
3/22/2019 0:00:00	Fri	201903		556.61							
3/23/2019 0:00:00	Sat	201903		626.58							
3/24/2019 0:00:00	Sun	201903		312.63							

John Martin Accounting- January to March 2019

OffsetAccount-Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						7598.13
1	0.00	0.00	0.00	0.00	0.17	7597.96
2	0.00	0.00	0.00	0.00	0.17	7597.79
3	0.00	0.00	0.00	0.00	0.51	7597.28
4	0.00	0.00	0.00	0.00	1.36	7595.92
5	0.00	0.00	0.00	0.00	1.36	7594.56
6	0.00	0.00	0.00	0.00	1.36	7593.20
7	0.00	0.00	0.00	0.00	1.53	7591.67
8	0.00	0.00	0.00	0.00	1.61	7590.06
9	0.00	0.00	0.00	0.00	1.45	7588.61
10	0.00	0.00	0.00	0.00	1.44	7587.17
11	0.00	0.00	0.00	0.00	1.61	7585.56
12	0.00	0.00	0.00	0.00	1.60	7583.96
13	0.00	0.00	0.00	0.00	1.60	7582.36
14	0.00	0.00	0.00	0.00	1.60	7580.76
15	0.00	0.00	0.00	0.00	1.60	7579.16
16	0.00	0.00	0.00	0.00	1.60	7577.56
17	0.00	0.00	0.00	0.00	1.59	7575.97
18	0.00	0.00	0.00	0.00	1.67	7574.30
19	0.00	0.00	0.00	0.00	1.67	7572.63
20	0.00	0.00	0.00	0.00	1.67	7570.96
21	0.00	0.00	0.00	0.00	1.66	7569.30
22	0.00	0.00	0.00	0.00	1.66	7567.64
23	0.00	0.00	0.00	0.00	1.66	7565.98
24	0.00	0.00	0.00	0.00	1.66	7564.32
25	0.00	0.00	0.00	0.00	1.66	7562.66
26	40.24	0.00	0.00	0.00	1.65	7601.25
27	58.26	0.00	0.00	0.00	1.66	7657.85
28	56.88	0.00	0.00	0.00	1.58	7713.15
29	56.72	0.00	0.00	0.00	1.59	7768.28
30	55.62	0.00	0.00	0.00	1.51	7822.39
31	54.24	0.00	0.00	0.00	2.47	7874.16
	321.96	0.00	0.00	0.00	45.93	

OffsetAccount-Consumable Upstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						1461.90
1	0.00	0.00	0.00	0.00	0.03	1461.87
2	0.00	0.00	0.00	0.00	0.03	1461.84
3	0.00	0.00	0.00	0.00	0.10	1461.74
4	0.00	0.00	0.00	0.00	0.26	1461.48
5	0.00	0.00	0.00	0.00	0.26	1461.22
6	0.00	0.00	0.00	0.00	0.26	1460.96
7	0.00	0.00	0.00	0.00	0.29	1460.67
8	0.00	0.00	0.00	0.00	0.31	1460.36
9	0.00	0.00	0.00	0.00	0.28	1460.08
10	0.00	0.00	0.00	0.00	0.28	1459.80
11	0.00	0.00	0.00	0.00	0.31	1459.49
12	0.00	0.00	0.00	0.00	0.31	1459.18
13	0.00	0.00	0.00	0.00	0.31	1458.87
14	0.00	0.00	0.00	0.00	0.31	1458.56
15	0.00	0.00	0.00	0.00	0.31	1458.25
16	0.00	0.00	0.00	0.00	0.31	1457.94
17	0.00	0.00	0.00	0.00	0.31	1457.63
18	0.00	0.00	0.00	0.00	0.32	1457.31
19	0.00	0.00	0.00	0.00	0.32	1456.99
20	0.00	0.00	0.00	0.00	0.32	1456.67
21	0.00	0.00	0.00	0.00	0.32	1456.35
22	0.00	0.00	0.00	0.00	0.32	1456.03
23	0.00	0.00	0.00	0.00	0.32	1455.71
24	0.00	0.00	0.00	0.00	0.32	1455.39
25	0.00	0.00	0.00	0.00	0.32	1455.07
26	0.00	0.00	0.00	0.00	0.32	1454.75
27	0.00	0.00	0.00	0.00	0.32	1454.43
28	0.00	0.00	0.00	0.00	0.30	1454.13
29	0.00	0.00	0.00	0.00	0.30	1453.83
30	0.00	0.00	0.00	0.00	0.28	1453.55
31	0.00	0.00	0.00	0.00	0.46	1453.09
	0.00	0.00	0.00	0.00	8.81	

OffsetAccount-Consumable Kansas

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-Consumable Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						7567.78
1	0.00	0.00	0.00	0.00	0.17	7567.61
2	0.00	0.00	0.00	0.00	0.17	7567.44
3	0.00	0.00	0.00	0.00	0.51	7566.93
4	0.00	0.00	0.00	0.00	1.35	7565.58
5	0.00	0.00	0.00	0.00	1.35	7564.23
6	0.00	0.00	0.00	0.00	1.35	7562.88
7	0.00	0.00	0.00	0.00	1.52	7561.36
8	0.00	0.00	0.00	0.00	1.60	7559.76
9	0.00	0.00	0.00	0.00	1.44	7558.32
10	0.00	0.00	0.00	0.00	1.43	7556.89
11	0.00	0.00	0.00	0.00	1.60	7555.29
12	0.00	0.00	0.00	0.00	1.59	7553.70
13	0.00	0.00	0.00	0.00	1.59	7552.11
14	0.00	0.00	0.00	0.00	1.59	7550.52
15	0.00	0.00	0.00	0.00	1.59	7548.93
16	0.00	0.00	0.00	0.00	1.59	7547.34
17	0.00	0.00	0.00	0.00	1.58	7545.76
18	0.00	0.00	0.00	0.00	1.66	7544.10
19	0.00	0.00	0.00	0.00	1.66	7542.44
20	0.00	0.00	0.00	0.00	1.66	7540.78
21	0.00	0.00	0.00	0.00	1.65	7539.13
22	0.00	0.00	0.00	0.00	1.65	7537.48
23	0.00	0.00	0.00	0.00	1.65	7535.83
24	0.00	0.00	0.00	0.00	1.65	7534.18
25	0.00	0.00	0.00	0.00	1.65	7532.53
26	40.24	0.00	0.00	0.00	1.64	7571.13
27	58.26	0.00	0.00	0.00	1.65	7627.74
28	56.88	0.00	0.00	0.00	1.57	7683.05
29	56.72	0.00	0.00	0.00	1.58	7738.19
30	55.62	0.00	0.00	0.00	1.50	7792.31
31	54.24	0.00	0.00	0.00	2.46	7844.09
	321.96	0.00	0.00	0.00	45.65	

OffsetAccount-Consumable Downstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						6105.88
1	0.00	0.00	0.00	0.00	0.14	6105.74
2	0.00	0.00	0.00	0.00	0.14	6105.60
3	0.00	0.00	0.00	0.00	0.41	6105.19
4	0.00	0.00	0.00	0.00	1.09	6104.10
5	0.00	0.00	0.00	0.00	1.09	6103.01
6	0.00	0.00	0.00	0.00	1.09	6101.92
7	0.00	0.00	0.00	0.00	1.23	6100.69
8	0.00	0.00	0.00	0.00	1.29	6099.40
9	0.00	0.00	0.00	0.00	1.16	6098.24
10	0.00	0.00	0.00	0.00	1.15	6097.09
11	0.00	0.00	0.00	0.00	1.29	6095.80
12	0.00	0.00	0.00	0.00	1.28	6094.52
13	0.00	0.00	0.00	0.00	1.28	6093.24
14	0.00	0.00	0.00	0.00	1.28	6091.96
15	0.00	0.00	0.00	0.00	1.28	6090.68
16	0.00	0.00	0.00	0.00	1.28	6089.40
17	0.00	0.00	0.00	0.00	1.27	6088.13
18	0.00	0.00	0.00	0.00	1.34	6086.79
19	0.00	0.00	0.00	0.00	1.34	6085.45
20	0.00	0.00	0.00	0.00	1.34	6084.11
21	0.00	0.00	0.00	0.00	1.33	6082.78
22	0.00	0.00	0.00	0.00	1.33	6081.45
23	0.00	0.00	0.00	0.00	1.33	6080.12
24	0.00	0.00	0.00	0.00	1.33	6078.79
25	0.00	0.00	0.00	0.00	1.33	6077.46
26	0.00	0.00	0.00	0.00	1.32	6076.14
27	0.00	0.00	0.00	0.00	1.32	6074.82
28	0.00	0.00	0.00	0.00	1.25	6073.57
29	0.00	0.00	0.00	0.00	1.25	6072.32
30	0.00	0.00	0.00	0.00	1.18	6071.14
31	0.00	0.00	0.00	0.00	1.92	6069.22
	0.00	0.00	0.00	0.00	36.66	

OffsetAccount-Consumable Kansas Charge

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	40.24	0.00	0.00	0.00	0.00	40.24
27	58.26	0.00	0.00	0.00	0.01	98.49
28	56.88	0.00	0.00	0.00	0.02	155.35
29	56.72	0.00	0.00	0.00	0.03	212.04
30	55.62	0.00	0.00	0.00	0.04	267.62
31	54.24	0.00	0.00	0.00	0.08	321.78
	321.96	0.00	0.00	0.00	0.18	

OffsetAccount-Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						7874.16
1	53.57	0.00	0.00	0.00	2.49	7925.24
2	53.45	0.00	0.00	0.00	2.63	7976.06
3	52.56	0.00	0.00	0.00	2.79	8025.83
4	51.52	0.00	0.00	0.00	2.77	8074.58
5	50.91	0.00	0.00	0.00	2.82	8122.67
6	50.88	0.00	0.00	0.00	2.83	8170.72
7	51.29	0.00	0.00	0.00	2.83	8219.18
8	52.00	0.00	0.00	0.00	2.85	8268.33
9	52.68	0.00	0.00	0.00	2.86	8318.15
10	52.69	0.00	0.00	0.00	2.87	8367.97
11	52.02	0.00	0.00	0.00	2.89	8417.10
12	51.36	0.00	0.00	0.00	2.90	8465.56
13	50.92	0.00	0.00	0.00	2.91	8513.57
14	50.97	0.00	0.00	0.00	2.93	8561.61
15	51.21	0.00	0.00	0.00	2.94	8609.88
16	51.37	0.00	0.00	0.00	2.96	8658.29
17	50.80	0.00	0.00	0.00	2.96	8706.13
18	50.50	0.00	0.00	0.00	2.98	8753.65
19	51.45	0.00	0.00	0.00	2.84	8802.26
20	52.20	0.00	0.00	0.00	2.85	8851.61
21	52.42	0.00	0.00	0.00	3.02	8901.01
22	52.95	0.00	0.00	0.00	3.04	8950.92
23	52.16	0.00	0.00	0.00	3.05	9000.03
24	51.61	0.00	0.00	0.00	2.90	9048.74
25	51.18	0.00	0.00	0.00	2.92	9097.00
26	50.95	0.00	0.00	0.00	2.94	9145.01
27	51.38	0.00	0.00	0.00	2.95	9193.44
28	53.10	0.00	0.00	0.00	4.79	9241.75
	1450.10	0.00	0.00	0.00	82.51	

OffsetAccount-Consumable Upstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						1453.09
1	0.00	0.00	0.00	0.00	0.46	1452.63
2	0.00	0.00	0.00	0.00	0.48	1452.15
3	0.00	0.00	0.00	0.00	0.51	1451.64
4	0.00	0.00	0.00	0.00	0.50	1451.14
5	0.00	0.00	0.00	0.00	0.51	1450.63
6	0.00	0.00	0.00	0.00	0.50	1450.13
7	0.00	0.00	0.00	0.00	0.50	1449.63
8	0.00	0.00	0.00	0.00	0.50	1449.13
9	0.00	0.00	0.00	0.00	0.50	1448.63
10	0.00	0.00	0.00	0.00	0.50	1448.13
11	0.00	0.00	0.00	0.00	0.50	1447.63
12	0.00	0.00	0.00	0.00	0.50	1447.13
13	0.00	0.00	0.00	0.00	0.50	1446.63
14	0.00	0.00	0.00	0.00	0.50	1446.13
15	0.00	0.00	0.00	0.00	0.50	1445.63
16	51.37	0.00	0.00	0.00	0.50	1496.50
17	50.80	0.00	0.00	0.00	0.51	1546.79
18	0.00	0.00	0.00	0.00	0.53	1546.26
19	0.00	0.00	0.00	0.00	0.50	1545.76
20	0.00	0.00	0.00	0.00	0.50	1545.26
21	0.00	0.00	0.00	0.00	0.53	1544.73
22	0.00	0.00	0.00	0.00	0.53	1544.20
23	0.00	0.00	0.00	0.00	0.53	1543.67
24	0.00	0.00	0.00	0.00	0.50	1543.17
25	0.00	0.00	0.00	0.00	0.50	1542.67
26	0.00	0.00	0.00	0.00	0.50	1542.17
27	0.00	0.00	0.00	0.00	0.50	1541.67
28	0.00	0.00	0.00	0.00	0.80	1540.87
	102.17	0.00	0.00	0.00	14.39	

OffsetAccount-Consumable Kansas

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-Consumable Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						7844.09
1	53.57	0.00	0.00	0.00	2.48	7895.18
2	53.45	0.00	0.00	0.00	2.62	7946.01
3	52.56	0.00	0.00	0.00	2.78	7995.79
4	51.52	0.00	0.00	0.00	2.76	8044.55
5	50.91	0.00	0.00	0.00	2.81	8092.65
6	50.88	0.00	0.00	0.00	2.82	8140.71
7	51.29	0.00	0.00	0.00	2.82	8189.18
8	52.00	0.00	0.00	0.00	2.84	8238.34
9	52.68	0.00	0.00	0.00	2.85	8288.17
10	52.69	0.00	0.00	0.00	2.86	8338.00
11	52.02	0.00	0.00	0.00	2.88	8387.14
12	51.36	0.00	0.00	0.00	2.89	8435.61
13	50.92	0.00	0.00	0.00	2.90	8483.63
14	50.97	0.00	0.00	0.00	2.92	8531.68
15	51.21	0.00	0.00	0.00	2.93	8579.96
16	51.37	0.00	0.00	0.00	2.95	8628.38
17	50.80	0.00	0.00	0.00	2.95	8676.23
18	50.50	0.00	0.00	0.00	2.97	8723.76
19	51.45	0.00	0.00	0.00	2.83	8772.38
20	52.20	0.00	0.00	0.00	2.84	8821.74
21	52.42	0.00	0.00	0.00	3.01	8871.15
22	52.95	0.00	0.00	0.00	3.03	8921.07
23	52.16	0.00	0.00	0.00	3.04	8970.19
24	51.61	0.00	0.00	0.00	2.89	9018.91
25	51.18	0.00	0.00	0.00	2.91	9067.18
26	50.95	0.00	0.00	0.00	2.93	9115.20
27	51.38	0.00	0.00	0.00	2.94	9163.64
28	53.10	0.00	0.00	0.00	4.77	9211.97
	1450.10	0.00	0.00	0.00	82.22	

OffsetAccount-Consumable Downstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						6069.22
1	0.00	0.00	0.00	0.00	1.92	6067.30
2	0.00	0.00	0.00	0.00	2.02	6065.28
3	0.00	0.00	0.00	0.00	2.12	6063.16
4	33.06	0.00	0.00	0.00	2.09	6094.13
5	50.91	0.00	0.00	0.00	2.13	6142.91
6	50.88	0.00	0.00	0.00	2.13	6191.66
7	51.29	0.00	0.00	0.00	2.15	6240.80
8	52.00	0.00	0.00	0.00	2.17	6290.63
9	52.68	0.00	0.00	0.00	2.18	6341.13
10	52.69	0.00	0.00	0.00	2.19	6391.63
11	52.02	0.00	0.00	0.00	2.21	6441.44
12	51.36	0.00	0.00	0.00	2.22	6490.58
13	50.92	0.00	0.00	0.00	2.23	6539.27
14	50.97	0.00	0.00	0.00	2.25	6587.99
15	51.21	0.00	0.00	0.00	2.26	6636.94
16	0.00	0.00	0.00	0.00	2.28	6634.66
17	0.00	0.00	0.00	0.00	2.27	6632.39
18	50.50	0.00	0.00	0.00	2.27	6680.62
19	51.45	0.00	0.00	0.00	2.17	6729.90
20	52.20	0.00	0.00	0.00	2.18	6779.92
21	52.42	0.00	0.00	0.00	2.31	6830.03
22	52.95	0.00	0.00	0.00	2.33	6880.65
23	52.16	0.00	0.00	0.00	2.34	6930.47
24	51.61	0.00	0.00	0.00	2.23	6979.85
25	51.18	0.00	0.00	0.00	2.25	7028.78
26	50.95	0.00	0.00	0.00	2.27	7077.46
27	51.38	0.00	0.00	0.00	2.28	7126.56
28	53.10	0.00	0.00	0.00	3.71	7175.95
	1169.89	0.00	0.00	0.00	63.16	

OffsetAccount-Consumable Kansas Charge

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						321.78
1	53.57	0.00	0.00	0.00	0.10	375.25
2	53.45	0.00	0.00	0.00	0.12	428.58
3	52.56	0.00	0.00	0.00	0.15	480.99
4	18.46	0.00	0.00	0.00	0.17	499.28
5	0.00	0.00	0.00	0.00	0.17	499.11
6	0.00	0.00	0.00	0.00	0.19	498.92
7	0.00	0.00	0.00	0.00	0.17	498.75
8	0.00	0.00	0.00	0.00	0.17	498.58
9	0.00	0.00	0.00	0.00	0.17	498.41
10	0.00	0.00	0.00	0.00	0.17	498.24
11	0.00	0.00	0.00	0.00	0.17	498.07
12	0.00	0.00	0.00	0.00	0.17	497.90
13	0.00	0.00	0.00	0.00	0.17	497.73
14	0.00	0.00	0.00	0.00	0.17	497.56
15	0.00	0.00	0.00	0.00	0.17	497.39
16	0.00	0.00	0.00	0.00	0.17	497.22
17	0.00	0.00	0.00	0.00	0.17	497.05
18	0.00	0.00	0.00	0.00	0.17	496.88
19	0.00	0.00	0.00	0.00	0.16	496.72
20	0.00	0.00	0.00	0.00	0.16	496.56
21	0.00	0.00	0.00	0.00	0.17	496.39
22	0.00	0.00	0.00	0.00	0.17	496.22
23	0.00	0.00	0.00	0.00	0.17	496.05
24	0.00	0.00	0.00	0.00	0.16	495.89
25	0.00	0.00	0.00	0.00	0.16	495.73
26	0.00	0.00	0.00	0.00	0.16	495.57
27	0.00	0.00	0.00	0.00	0.16	495.41
28	0.00	0.00	0.00	0.00	0.26	495.15
	178.04	0.00	0.00	0.00	4.67	

OffsetAccount-Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						9241.75
1	54.58	0.00	0.00	0.00	4.81	9291.52
2	56.72	0.00	0.00	0.00	4.57	9343.67
3	58.12	0.00	0.00	0.00	0.51	9401.28
4	58.01	0.00	0.00	0.00	0.51	9458.78
5	56.42	0.00	0.00	0.00	0.00	9515.20
6	54.16	0.00	0.00	0.00	0.00	9569.36
7	52.68	0.00	0.00	0.00	2.11	9619.93
8	51.44	0.00	0.00	0.00	3.69	9667.68
9	50.97	0.00	0.00	0.00	4.77	9713.88
10	50.85	0.00	0.00	0.00	5.07	9759.66
11	51.80	0.00	0.00	0.00	5.36	9806.10
12	52.01	0.00	0.00	0.00	5.39	9852.72
13	51.05	0.00	0.00	0.00	5.44	9898.33
14	49.68	0.00	0.00	0.00	5.44	9942.57
15	48.78	0.00	0.00	0.00	5.46	9985.89
16	48.68	0.00	0.00	0.00	5.50	10029.07
17	51.20	0.00	0.00	0.00	5.52	10074.75
18	52.80	0.00	0.00	0.00	5.55	10122.00
19	17.66	0.00	0.00	0.00	5.51	10134.15
20	0.00	0.00	0.00	0.00	5.56	10128.59
21	0.00	0.00	0.00	0.00	5.56	10123.03
22	0.00	0.00	0.00	0.00	5.55	10117.48
23	7.14	0.00	0.00	0.00	5.53	10119.09
24	14.17	0.00	0.00	0.00	5.52	10127.74
25	7.27	0.00	93.07	0.00	5.52	10036.42
26	0.00	0.00	0.00	0.00	5.46	10030.96
27	0.00	0.00	0.00	0.00	5.46	10025.50
28	9.22	0.00	0.00	0.00	5.45	10029.27
29	15.47	0.00	0.00	0.00	5.44	10039.30
30	10.47	0.00	0.00	0.00	5.43	10044.34
31	3.88	13.74	0.00	0.00	6.99	10054.97
	1035.23	13.74	93.07	0.00	142.68	

OffsetAccount-Consumable Upstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						1540.87
1	0.00	0.00	0.00	0.00	0.80	1540.07
2	0.00	0.00	0.00	0.00	0.76	1539.31
3	0.00	0.00	0.00	0.00	0.08	1539.23
4	0.00	0.00	0.00	0.00	0.08	1539.15
5	0.00	0.00	0.00	0.00	0.00	1539.15
6	0.00	0.00	0.00	0.00	0.00	1539.15
7	0.00	0.00	0.00	0.00	0.34	1538.81
8	0.00	0.00	0.00	0.00	0.59	1538.22
9	0.00	0.00	0.00	0.00	0.76	1537.46
10	0.00	0.00	0.00	0.00	0.80	1536.66
11	0.00	0.00	0.00	0.00	0.84	1535.82
12	0.00	0.00	0.00	0.00	0.84	1534.98
13	0.00	0.00	0.00	0.00	0.85	1534.13
14	0.00	0.00	0.00	0.00	0.84	1533.29
15	0.00	0.00	0.00	0.00	0.84	1532.45
16	0.00	0.00	0.00	0.00	0.84	1531.61
17	0.00	0.00	0.00	0.00	0.84	1530.77
18	0.00	0.00	0.00	0.00	0.84	1529.93
19	0.00	0.00	0.00	0.00	0.83	1529.10
20	0.00	0.00	0.00	0.00	0.84	1528.26
21	0.00	0.00	0.00	0.00	0.84	1527.42
22	0.00	0.00	0.00	0.00	0.84	1526.58
23	0.00	0.00	0.00	0.00	0.83	1525.75
24	0.00	0.00	0.00	0.00	0.83	1524.92
25	0.00	0.00	93.07	0.00	0.83	1431.02
26	0.00	0.00	0.00	0.00	0.78	1430.24
27	0.00	0.00	0.00	0.00	0.78	1429.46
28	0.00	0.00	0.00	0.00	0.78	1428.68
29	0.00	0.00	0.00	0.00	0.77	1427.91
30	0.00	0.00	0.00	0.00	0.77	1427.14
31	0.00	0.00	0.00	0.00	0.99	1426.15
	0.00	0.00	93.07	0.00	21.65	

OffsetAccount-Consumable Kansas

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-Consumable Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						9211.97
1	54.58	0.00	0.00	0.00	4.79	9261.76
2	56.72	0.00	0.00	0.00	4.56	9313.92
3	58.12	0.00	0.00	0.00	0.51	9371.53
4	58.01	0.00	0.00	0.00	0.51	9429.03
5	56.42	0.00	0.00	0.00	0.00	9485.45
6	54.16	0.00	0.00	0.00	0.00	9539.61
7	52.68	0.00	0.00	0.00	2.10	9590.19
8	51.44	0.00	0.00	0.00	3.68	9637.95
9	50.97	0.00	0.00	0.00	4.76	9684.16
10	50.85	0.00	0.00	0.00	5.05	9729.96
11	51.80	0.00	0.00	0.00	5.34	9776.42
12	52.01	0.00	0.00	0.00	5.37	9823.06
13	51.05	0.00	0.00	0.00	5.42	9868.69
14	49.68	0.00	0.00	0.00	5.42	9912.95
15	48.78	0.00	0.00	0.00	5.44	9956.29
16	48.68	0.00	0.00	0.00	5.48	9999.49
17	51.20	0.00	0.00	0.00	5.50	10045.19
18	52.80	0.00	0.00	0.00	5.53	10092.46
19	17.66	0.00	0.00	0.00	5.49	10104.63
20	0.00	0.00	0.00	0.00	5.54	10099.09
21	0.00	0.00	0.00	0.00	5.54	10093.55
22	0.00	0.00	0.00	0.00	5.53	10088.02
23	7.14	0.00	0.00	0.00	5.51	10089.65
24	14.17	0.00	0.00	0.00	5.50	10098.32
25	7.27	0.00	93.07	0.00	5.50	10007.02
26	0.00	0.00	0.00	0.00	5.44	10001.58
27	0.00	0.00	0.00	0.00	5.44	9996.14
28	9.22	0.00	0.00	0.00	5.43	9999.93
29	15.47	0.00	0.00	0.00	5.42	10009.98
30	10.47	0.00	0.00	0.00	5.41	10015.04
31	3.88	11.94	0.00	0.00	6.97	10023.89
	1035.23	11.94	93.07	0.00	142.18	

OffsetAccount-Consumable Downstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						7175.95
1	54.58	0.00	0.00	0.00	3.73	7226.80
2	56.72	0.00	0.00	0.00	3.56	7279.96
3	58.12	0.00	0.00	0.00	0.40	7337.68
4	58.01	0.00	0.00	0.00	0.40	7395.29
5	56.42	0.00	0.00	0.00	0.00	7451.71
6	54.16	0.00	0.00	0.00	0.00	7505.87
7	52.68	0.00	0.00	0.00	1.65	7556.90
8	51.44	0.00	0.00	0.00	2.90	7605.44
9	50.97	0.00	0.00	0.00	3.76	7652.65
10	50.85	0.00	0.00	0.00	3.99	7699.51
11	51.80	0.00	0.00	0.00	4.23	7747.08
12	52.01	0.00	0.00	0.00	4.26	7794.83
13	51.05	0.00	0.00	0.00	4.30	7841.58
14	49.68	0.00	0.00	0.00	4.31	7886.95
15	48.78	0.00	0.00	0.00	4.33	7931.40
16	48.68	0.00	0.00	0.00	4.37	7975.71
17	51.20	0.00	0.00	0.00	4.39	8022.52
18	52.80	0.00	0.00	0.00	4.42	8070.90
19	17.66	0.00	0.00	0.00	4.39	8084.17
20	0.00	0.00	0.00	0.00	4.43	8079.74
21	0.00	0.00	0.00	0.00	4.43	8075.31
22	0.00	0.00	0.00	0.00	4.42	8070.89
23	7.14	0.00	0.00	0.00	4.41	8073.62
24	14.17	0.00	0.00	0.00	4.40	8083.39
25	7.27	0.00	0.00	0.00	4.40	8086.26
26	0.00	0.00	0.00	0.00	4.39	8081.87
27	0.00	0.00	0.00	0.00	4.39	8077.48
28	9.22	0.00	0.00	0.00	4.38	8082.32
29	15.47	0.00	0.00	0.00	4.38	8093.41
30	10.47	0.00	0.00	0.00	4.38	8099.50
31	3.88	0.00	0.00	0.00	5.64	8097.74
	1035.23	0.00	0.00	0.00	113.44	

OffsetAccount-Consumable Kansas Charge

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						495.15
1	0.00	0.00	0.00	0.00	0.26	494.89
2	0.00	0.00	0.00	0.00	0.24	494.65
3	0.00	0.00	0.00	0.00	0.03	494.62
4	0.00	0.00	0.00	0.00	0.03	494.59
5	0.00	0.00	0.00	0.00	0.00	494.59
6	0.00	0.00	0.00	0.00	0.00	494.59
7	0.00	0.00	0.00	0.00	0.11	494.48
8	0.00	0.00	0.00	0.00	0.19	494.29
9	0.00	0.00	0.00	0.00	0.24	494.05
10	0.00	0.00	0.00	0.00	0.26	493.79
11	0.00	0.00	0.00	0.00	0.27	493.52
12	0.00	0.00	0.00	0.00	0.27	493.25
13	0.00	0.00	0.00	0.00	0.27	492.98
14	0.00	0.00	0.00	0.00	0.27	492.71
15	0.00	0.00	0.00	0.00	0.27	492.44
16	0.00	0.00	0.00	0.00	0.27	492.17
17	0.00	0.00	0.00	0.00	0.27	491.90
18	0.00	0.00	0.00	0.00	0.27	491.63
19	0.00	0.00	0.00	0.00	0.27	491.36
20	0.00	0.00	0.00	0.00	0.27	491.09
21	0.00	0.00	0.00	0.00	0.27	490.82
22	0.00	0.00	0.00	0.00	0.27	490.55
23	0.00	0.00	0.00	0.00	0.27	490.28
24	0.00	0.00	0.00	0.00	0.27	490.01
25	0.00	0.00	0.00	0.00	0.27	489.74
26	0.00	0.00	0.00	0.00	0.27	489.47
27	0.00	0.00	0.00	0.00	0.27	489.20
28	0.00	0.00	0.00	0.00	0.27	488.93
29	0.00	0.00	0.00	0.00	0.27	488.66
30	0.00	0.00	0.00	0.00	0.26	488.40
31	0.00	11.94	0.00	0.00	0.34	500.00
	0.00	11.94	0.00	0.00	7.09	

Enclosure 2

John Martin Reservoir Accounting for March 31, 2019

Acct		Date	PrevBal.	Inflow	TIn	TOut	Rel.	Evap	Balance
Storage									
City									
City/LAMAR		3/31/2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Conservation									
Summer Compact		3/31/2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Winter Compact		3/31/2019	35,902.56	274.39	0.00	0.00	0.00	24.98	36,151.97
Other Water									
Winter Water Holding Acc		3/31/2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D67 Winter Water Storage		3/31/2019		0.00	0.00	0.00	0.00	0.00	
Pool									
Permanent Pool		3/31/2019	7,496.43	0.00	0.00	0.00	0.00	5.22	7,491.21
Flood Pool		3/31/2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Storage	**Totals:**		**43,398.99**	**274.39**	**0.00**	**0.00**	**0.00**	**30.20**	**43,643.18**
Agreement									
InterState									
Kansas	Kansas	3/31/2019	50,134.85	0.00	0.00	0.00	0.00	34.88	50,099.96
Transit Loss		3/31/2019	584.01	0.00	0.00	0.00	0.00	0.41	583.60
Section III									
Amity		3/31/2019	8,091.95	0.00	0.00	0.00	0.00	5.63	8,086.32
Ft. Lyon		3/31/2019	386.85	0.00	0.00	0.00	0.00	0.27	386.58
Las Animas		3/31/2019	937.00	0.00	0.00	0.00	0.00	0.65	936.35
CO Sec II									
Prev Winter Stored	Keesee	3/31/2019	0.00	0.00	805.50	0.00	0.00	0.00	805.50
Prev Winter Stored	Ft Bent	3/31/2019	0.00	0.00	581.90	0.00	0.00	0.00	581.90
Prev Winter Stored	Amity	3/31/2019	0.00	0.00	2.73	0.00	0.00	0.00	2.73
Prev Winter Stored	Lamar	3/31/2019	0.00	0.00	5,889.72	0.00	0.00	0.00	5,889.72
Prev Winter Stored	Hyde	3/31/2019	0.00	0.00	458.27	0.00	0.00	0.00	458.27
Prev Winter Stored	X-Y	3/31/2019	0.00	0.00	1,797.46	0.00	0.00	0.00	1,797.46
Prev Winter Stored	Buffalo	3/31/2019	0.00	0.00	2,961.38	0.00	0.00	0.00	2,961.38
Prev Winter Stored	Sisson	3/31/2019	0.00	0.00	423.06	0.00	0.00	0.00	423.06
Prev Winter Stored	Stubbs	3/31/2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Prev Winter Stored	Manvel	3/31/2019	0.00	0.00	515.64	0.00	0.00	0.00	515.64
Prev Winter Stored	Manvel	3/31/2019	0.00	0.00	330.15	0.00	0.00	0.00	330.15
CO Sec II									
Crnt Winter Stored	Keesee	3/31/2019	806.06	0.00	0.00	805.50	0.00	0.56	0.00
Crnt Winter Stored	Ft Bent	3/31/2019	581.74	0.00	0.56	581.90	0.00	0.40	0.00
Crnt Winter Stored	Amity	3/31/2019	0.00	0.00	2.73	2.73	0.00	0.00	0.00
Crnt Winter Stored	Lamar	3/31/2019	5,892.28	0.00	1.54	5,889.72	0.00	4.10	0.00
Crnt Winter Stored	Hyde	3/31/2019	458.59	0.00	0.00	458.27	0.00	0.32	0.00
Crnt Winter Stored	X-Y	3/31/2019	1,798.71	0.00	0.00	1,797.46	0.00	1.25	0.00
Crnt Winter Stored	Buffalo	3/31/2019	2,963.44	0.00	0.00	2,961.38	0.00	2.06	0.00
Crnt Winter Stored	Sisson	3/31/2019	423.35	0.00	0.00	423.06	0.00	0.29	0.00
Crnt Winter Stored	Stubbs	3/31/2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crnt Winter Stored	Manvel	3/31/2019	516.00	0.00	0.00	515.64	0.00	0.36	0.00
Crnt Winter Stored	Manvel	3/31/2019	330.38	0.00	0.00	330.15	0.00	0.23	0.00
CO Sec II									
Summer Stored	Keesee	3/31/2019	4,654.93	0.00	0.00	18.57	0.00	3.24	4,633.12
Summer Stored	Ft Bent	3/31/2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Summer Stored	Amity	3/31/2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Summer Stored	Lamar	3/31/2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Summer Stored	Hyde	3/31/2019	3,364.78	0.00	0.00	0.00	0.00	2.34	3,362.44
Summer Stored	X-Y	3/31/2019	13,159.90	0.00	0.00	0.00	0.00	9.16	13,150.74
Summer Stored	Buffalo	3/31/2019	17,288.52	0.00	0.00	0.00	0.00	12.03	17,276.49
Summer Stored	Sisson	3/31/2019	2,866.58	0.00	0.00	0.00	0.00	1.99	2,864.59
Summer Stored	Stubbs	3/31/2019	441.32	0.00	0.00	0.00	0.00	0.31	441.01
Summer Stored	Manvel	3/31/2019	3,394.06	0.00	0.00	0.00	0.00	2.36	3,391.70
Summer Stored	Manvel	3/31/2019	3,225.38	0.00	0.00	0.00	0.00	2.24	3,223.14
Agreement	**Totals:**		**122,300.67**	**0.00**	**13,770.64**	**13,784.38**	**0.00**	**85.08**	**122,201.85**
OffsetAccount									
Consumable									
Upstream		3/31/2019	1,427.14	0.00	0.00	0.00	0.00	0.99	1,426.15
Downstream		3/31/2019	8,099.50	3.88	0.00	0.00	0.00	5.64	8,097.74
Kansas		3/31/2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Kansas Charge		3/31/2019	488.40	0.00	11.94	0.00	0.00	0.34	500.00
ReturnFlow									
Return Flow		3/31/2019	0.00	0.00	1.71	0.00	0.00	0.00	1.71
RF Transit Loss		3/31/2019	29.30	0.00	0.09	0.00	0.00	0.02	29.37
Keesee Winter		3/31/2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OffsetAccount	**Totals:**		**10,044.34**	**3.88**	**13.74**	**0.00**	**0.00**	**6.99**	**10,054.97**
Reservoir	**Totals:**		**175,744.00**	**278.27**	**13,784.38**	**13,784.38**	**0.00**	**122.27**	**175,900.00**
Colorado Article II Summary									
Keesee		3/31/2019	5,460.99	0.00	805.50	824.07	0.00	3.80	5,438.62
Ft Bent		3/31/2019	581.74	0.00	582.46	581.90	0.00	0.40	581.90
Amity		3/31/2019	0.00	0.00	5.46	2.73	0.00	0.00	2.73
Lamar		3/31/2019	5,892.28	0.00	5,891.26	5,889.72	0.00	4.10	5,889.72
Hyde		3/31/2019	3,823.37	0.00	458.27	458.27	0.00	2.66	3,820.71
X-Y		3/31/2019	14,958.61	0.00	1,797.46	1,797.46	0.00	10.41	14,948.20
Buffalo		3/31/2019	20,251.96	0.00	2,961.38	2,961.38	0.00	14.09	20,237.87
Sisson		3/31/2019	3,289.93	0.00	423.06	423.06	0.00	2.28	3,287.65
Stubbs		3/31/2019	441.32	0.00	0.00	0.00	0.00	0.31	441.01
Manvel		3/31/2019	7,465.82	0.00	845.79	845.79	0.00	5.19	7,460.63
Colorado Article II	**Totals:**		**62,166.01**	**0.00**	**13,770.64**	**13,784.38**	**0.00**	**43.24**	**62,109.03**

Enclosure 3

John Martin Reservoir Accounting for June 30, 2019

Acct		Date	PrevBal.	Inflow	TIn	TOut	Rel.	Evap	Balance
Storage									
City									
City/LAMAR		6/30/2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Conservation									
Summer Compact		6/30/2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Winter Compact		6/30/2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Water									
Winter Water Holding Acc		6/30/2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D67 Winter Water Storage		6/30/2019		0.00	0.00	0.00	0.00	0.00	
Pool									
Permanent Pool		6/30/2019	7,487.71	10.59	0.00	0.00	0.00	11.10	7,487.20
Flood Pool		6/30/2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Storage		**Totals:**	**7,487.71**	**10.59**	**0.00**	**0.00**	**0.00**	**11.10**	**7,487.20**
Agreement									
InterState									
Kansas	Kansas	6/30/2019	53,182.48	0.00	3.37	0.00	1,090.93	78.83	52,016.09
Transit Loss		6/30/2019	1,512.04	0.00	41.80	0.00	317.36	2.24	1,234.24
Section III									
Amity		6/30/2019	22,302.06	119.43	0.00	41.80	0.00	33.06	22,346.63
Ft. Lyon		6/30/2019	275.49	0.00	0.00	0.00	0.00	0.41	275.08
Las Animas		6/30/2019	460.79	24.09	0.00	8.43	0.00	0.68	475.77
CO Sec II									
Prev Winter Stored	Keesee	6/30/2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Prev Winter Stored	Ft Bent	6/30/2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Prev Winter Stored	Amity	6/30/2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Prev Winter Stored	Lamar	6/30/2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Prev Winter Stored	Hyde	6/30/2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Prev Winter Stored	X-Y	6/30/2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Prev Winter Stored	Buffalo	6/30/2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Prev Winter Stored	Sisson	6/30/2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Prev Winter Stored	Stubbs	6/30/2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Prev Winter Stored	Manvel	6/30/2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Prev Winter Stored	Manvel	6/30/2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CO Sec II									
Crnt Winter Stored	Keesee	6/30/2019	462.24	0.00	0.00	0.00	0.00	0.69	461.55
Crnt Winter Stored	Ft Bent	6/30/2019	807.11	0.00	0.00	0.00	0.00	1.20	805.91
Crnt Winter Stored	Amity	6/30/2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crnt Winter Stored	Lamar	6/30/2019	3,774.94	0.00	0.00	0.00	0.00	5.60	3,769.34
Crnt Winter Stored	Hyde	6/30/2019	261.25	0.00	0.00	0.00	0.00	0.39	260.86
Crnt Winter Stored	X-Y	6/30/2019	1,025.05	0.00	0.00	0.00	0.00	1.52	1,023.53
Crnt Winter Stored	Buffalo	6/30/2019	1,708.34	0.00	0.00	0.00	0.00	2.53	1,705.81
Crnt Winter Stored	Sisson	6/30/2019	241.19	0.00	0.00	0.00	0.00	0.36	240.83
Crnt Winter Stored	Stubbs	6/30/2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crnt Winter Stored	Manvel	6/30/2019	241.14	0.00	0.00	0.00	0.00	0.36	240.78
Crnt Winter Stored	Manvel	6/30/2019	241.14	0.00	0.00	0.00	0.00	0.36	240.78
CO Sec II									
Summer Stored	Keesee	6/30/2019	5,230.22	0.00	0.12	0.00	0.00	7.75	5,222.59
Summer Stored	Ft Bent	6/30/2019	0.00	0.00	0.50	0.00	0.50	0.00	0.00
Summer Stored	Amity	6/30/2019	0.00	0.00	2.50	0.00	2.50	0.00	0.00
Summer Stored	Lamar	6/30/2019	0.00	0.00	1.00	0.00	1.00	0.00	0.00
Summer Stored	Hyde	6/30/2019	3,647.95	0.00	0.07	0.00	0.00	5.41	3,642.61
Summer Stored	X-Y	6/30/2019	14,274.20	0.00	0.26	0.00	0.00	21.16	14,253.30
Summer Stored	Buffalo	6/30/2019	19,181.43	0.00	0.43	0.00	0.00	28.44	19,153.42
Summer Stored	Sisson	6/30/2019	3,125.69	0.00	0.04	780.03	0.00	4.63	2,341.07
Summer Stored	Stubbs	6/30/2019	429.27	0.00	0.02	0.00	0.00	0.64	428.65
Summer Stored	Manvel	6/30/2019	3,720.09	0.00	0.06	0.00	0.00	5.51	3,714.64
Summer Stored	Manvel	6/30/2019	3,391.96	0.00	0.06	0.00	0.00	5.03	3,386.99
Agreement		**Totals:**	**139,496.06**	**143.52**	**50.23**	**830.26**	**1,412.29**	**206.80**	**137,240.46**
OffsetAccount									
Consumable									
Upstream		6/30/2019	1,333.27	0.00	0.00	0.00	0.00	1.98	1,331.29
Downstream		6/30/2019	11,349.82	29.86	500.00	0.00	0.00	16.79	11,862.89
Kansas		6/30/2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Kansas Charge		6/30/2019	463.22	0.00	0.00	0.00	0.00	0.69	462.53
ReturnFlow									
Return Flow		6/30/2019	1.71	0.00	241.03	0.00	0.00	0.00	242.74
RF Transit Loss		6/30/2019	27.21	0.00	39.00	0.00	0.00	0.04	66.17
Keesee Winter		6/30/2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OffsetAccount		**Totals:**	**13,175.23**	**29.86**	**780.03**	**0.00**	**0.00**	**19.50**	**13,965.62**
Reservoir		**Totals:**	**160,159.00**	**183.97**	**830.26**	**830.26**	**1,412.29**	**237.40**	**158,693.28**
Colorado Article II Summary									
Keesee		6/30/2019	5,692.46	0.00	0.12	0.00	0.00	8.44	5,684.14
Ft Bent		6/30/2019	807.11	0.00	0.50	0.00	0.50	1.20	805.91
Amity		6/30/2019	0.00	0.00	2.50	0.00	2.50	0.00	0.00
Lamar		6/30/2019	3,774.94	0.00	1.00	0.00	1.00	5.60	3,769.34
Hyde		6/30/2019	3,909.20	0.00	0.07	0.00	0.00	5.80	3,903.47
X-Y		6/30/2019	15,299.25	0.00	0.26	0.00	0.00	22.68	15,276.83
Buffalo		6/30/2019	20,889.77	0.00	0.43	0.00	0.00	30.97	20,859.23
Sisson		6/30/2019	3,366.88	0.00	0.04	780.03	0.00	4.99	2,581.90
Stubbs		6/30/2019	429.27	0.00	0.02	0.00	0.00	0.64	428.65
Manvel		6/30/2019	7,594.33	0.00	0.12	0.00	0.00	11.26	7,583.19
Colorado Article II		**Totals:**	**61,763.21**	**0.00**	**5.06**	**780.03**	**4.00**	**91.58**	**60,892.66**

COLORADO
Division of Water Resources
Department of Natural Resources

Water Division 2 – Main Office

August 6, 2019

David Barfield
Kansas Chief Engineer
Kansas Board of Agriculture
901 S. Kansas Avenue, 2nd Floor
Topeka, KS 66612-1283

Dear Mr. Barfield,

The purpose of this letter is to provide the notice required by paragraph 3 of the **Resolution Concerning an Offset Account in John Martin Reservoir for Colorado Pumping As Amended March 30, 1998** ("Resolution") for each delivery or transfer conducted during 2019 in detail following the initial notice for each transaction originally sent to Kansas.

July 1, 2019 through July 11, 2019 delivery:

Colorado Water Protective and Development Association (CWPDA) delivered 1156.26 **acre-feet** of consumable water to the Colorado Upstream Consumable subaccount between July 3, 2019 and July 5, 2019. A portion of this water as provided by Colorado Springs Utilities (CS-U) on behalf CWPDA.

In order to accomplish the foregoing, a total of 1250 **acre-feet** of water was released from Lake Meredith beginning on July 1, 2019 at a rate of 315.1 cfs. The computed transit loss for this release was 7.5%. The arrival rate at John Martin Reservoir averaged 291.47cfs over 60 hours. The inflows were stored in the Colorado Upstream Consumable subaccount.

Details of the release from Lake Meredith are included at Enclosure 1. Details of the delivery at John Martin Reservoir are included at Enclosure 2. Documentation of the fully consumable source of water is included at Enclosure 3.

Summary

This letter summarizes the delivery to the Offset Account for CWPDA during 2019. The total amount of water delivered to the Offset Account on the above dates was **1156.26 acre-feet**. Total consumable water delivered was **1156.26 acre-feet**.

Please contact me if you have any questions or require additional information.

Sincerely,

Bill W. Tyner

Bill W. Tyner, P.E.
Division Engineer
Colorado Division of Water Resources

3 Enclosures
cc: Kevin Salter Dale Book Eunhye Kim Brent Campbell Rachel Zancanella
Dan Steuer Don Higbee Randy Hendrix Bethany Arnold

Enclosure 1

Delivery Details CWPDA from Lake Meredith
July 2019

Lake Meredith Accounting: July 2019

MEREDITH OUTFLOW 2018-19	Total Out	CCS Return Flow to River	Ag Boone Exch	CCS Release to River Over-Store / Rain	CS-U @ Fnt Crk to River for Colo Canal Return Flow	Aurora Return fow for Colo Canal	CWPDA Ex to P. Res Out River	CWPDA to River Ex Boone / Recharge	Aurora to River out for EX to PR	CWPDA to River out for CAA	CWPDA to JMR
Date	CFS	CFS	CFS	CFS		CFS	CFS	CFS	CFS	CFS	CFS
31-Oct-19											
NOV cfs:	155.73	132.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.98	0.00
DEC cfs:	22.55	22.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
JAN cfs:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FEB cfs:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAR cfs:	123.01	102.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.04	0.00
APR cfs:	449.04	168.37	124.83	0.00	0.00	0.00	0.00	6.57	0.00	4.20	0.00
MAY cfs:	3135.24	163.15	894.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
JUN cfs:	2560.55	173.58	15.61	0.00	0.00	0.00	0.00	0.00	410.04	49.48	0.00
JUL cfs:	544.29	22.65	0.00	0.00	0.00	0.00	0.00	0.00	346.96	16.00	630.20
AUG cfs:	0.00	0.00	0.00	0.00	0.00	0.00	35.97	0.00	0.00	0.00	0.00
SEP cfs:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OCT cfs:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CFS Total:	6990.41	785.59	1034.85	0.00	0.00	0.00	35.97	6.57	757.00	82.70	630.20
Max cfs:	622.42	22.65	125.67	0.00	0.00	0.00	35.97	4.05	410.04	6.89	315.10
NOV af:	308.89	262.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.78	0.00
DEC af:	44.73	44.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
JAN af:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FEB af:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAR af:	243.99	204.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.05	0.00
APR af:	890.67	333.96	247.60	0.00	0.00	0.00	0.00	13.03	0.00	8.33	0.00
MAY af:	6218.75	323.61	1774.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
JUN af:	5078.85	344.30	30.96	0.00	0.00	0.00	0.00	0.00	813.32	98.14	0.00
JUL af:	1079.60	44.93	0.00	0.00	0.00	0.00	0.00	0.00	688.19	31.74	1250.00
AUG af:	0.00	0.00	0.00	0.00	0.00	0.00	71.35	0.00	0.00	0.00	0.00
SEP af:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OCT af:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AF Total:	13865.48	1558.22	2052.62	0.00	0.00	0.00	71.35	13.03	1501.51	164.04	1250.00

Enclosure 2

John Martin Reservoir Accounting for July 2019

OffsetAccount-Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						13965.62
1	54.00	0.00	0.00	0.00	3.71	14015.91
2	55.51	0.00	0.00	0.00	11.98	14059.44
3	75.94	0.00	0.00	0.00	19.59	14115.79
4	649.33	0.00	0.00	0.00	19.67	14745.45
5	646.26	0.00	0.00	0.00	12.57	15379.14
6	82.68	0.00	0.00	0.00	13.02	15448.80
7	55.65	0.00	0.00	0.00	13.07	15491.38
8	56.35	0.00	0.00	0.00	15.95	15531.78
9	74.50	0.00	0.00	198.35	18.06	15389.87
10	67.46	0.00	0.00	198.35	18.69	15240.29
11	44.10	0.00	0.00	198.35	18.09	15067.95
12	59.45	0.00	0.00	198.35	23.81	14905.24
13	63.09	0.00	0.00	198.35	23.52	14746.46
14	63.49	0.00	0.00	198.35	23.32	14588.28
15	46.72	0.00	0.00	198.35	17.81	14418.84
16	46.06	0.00	0.00	198.35	14.63	14251.92
17	54.03	0.00	0.00	198.35	25.28	14082.32
18	31.44	0.00	0.00	198.35	20.57	13894.84
19	17.77	0.00	0.00	198.35	18.92	13695.34
20	20.53	0.00	0.00	198.35	18.77	13498.75
21	35.71	0.00	0.00	198.35	18.97	13317.14
22	47.43	0.00	0.00	198.35	11.44	13154.78
23	46.74	0.00	0.00	198.35	16.16	12987.01
24	34.69	0.00	0.00	198.35	14.59	12808.76
25	26.39	0.00	0.00	198.35	20.84	12615.96
26	37.64	0.00	0.00	198.35	14.13	12441.12
27	41.81	0.00	0.00	198.35	14.23	12270.35
28	64.81	0.00	0.00	198.35	14.07	12122.74
29	43.95	0.00	0.00	198.35	15.01	11953.33
30	28.11	0.00	0.00	198.35	19.94	11763.15
31	40.55	0.00	0.00	198.35	12.37	11592.98
	2712.19	0.00	0.00	4562.05	522.78	

OffsetAccount-Consumable Upstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						1331.29
1	0.00	0.00	0.00	0.00	0.35	1330.94
2	0.00	0.00	0.00	0.00	1.14	1329.80
3	24.09	0.00	0.00	0.00	1.85	1352.04
4	578.13	0.00	0.00	0.00	1.88	1928.29
5	554.04	0.00	0.00	0.00	1.64	2480.69
6	0.00	0.00	0.00	0.00	2.10	2478.59
7	0.00	0.00	0.00	0.00	2.10	2476.49
8	0.00	0.00	0.00	0.00	2.55	2473.94
9	0.00	0.00	0.00	0.00	2.88	2471.06
10	0.00	0.00	0.00	0.00	3.00	2468.06
11	0.00	0.00	0.00	0.00	2.93	2465.13
12	0.00	0.00	0.00	0.00	3.90	2461.23
13	0.00	0.00	0.00	0.00	3.89	2457.34
14	0.00	0.00	0.00	0.00	3.89	2453.45
15	0.00	0.00	0.00	0.00	3.00	2450.45
16	0.00	0.00	0.00	0.00	2.49	2447.96
17	0.00	0.00	0.00	0.00	4.34	2443.62
18	0.00	0.00	0.00	0.00	3.57	2440.05
19	0.00	0.00	0.00	0.00	3.32	2436.73
20	0.00	0.00	0.00	0.00	3.34	2433.39
21	0.00	0.00	0.00	0.00	3.42	2429.97
22	0.00	0.00	0.00	0.00	2.09	2427.88
23	0.00	0.00	0.00	0.00	2.99	2424.89
24	0.00	0.00	0.00	0.00	2.73	2422.16
25	0.00	0.00	0.00	0.00	3.95	2418.21
26	0.00	0.00	0.00	0.00	2.71	2415.50
27	0.00	0.00	0.00	0.00	2.77	2412.73
28	0.00	0.00	0.00	0.00	2.77	2409.96
29	0.00	0.00	0.00	0.00	2.99	2406.97
30	0.00	0.00	0.00	0.00	4.02	2402.95
31	0.00	0.00	0.00	0.00	2.53	2400.42
	1156.26	0.00	0.00	0.00	87.13	

OffsetAccount-Consumable Kansas

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-Consumable Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						13656.71
1	54.00	0.00	0.00	0.00	3.63	13707.08
2	55.51	0.00	0.00	0.00	11.71	13750.88
3	75.94	0.00	0.00	0.00	19.16	13807.66
4	649.33	0.00	0.00	0.00	19.24	14437.75
5	646.26	0.00	0.00	0.00	12.30	15071.71
6	82.68	0.00	0.00	0.00	12.76	15141.63
7	55.65	0.00	0.00	0.00	12.81	15184.47
8	56.35	0.00	0.00	0.00	15.63	15225.19
9	74.50	0.00	0.00	198.35	17.70	15083.64
10	67.46	0.00	0.00	198.35	18.32	14934.43
11	44.10	0.00	0.00	61.48	17.72	14899.33
12	59.45	0.00	0.00	95.31	23.55	14839.92
13	63.09	0.00	0.00	198.35	23.42	14681.24
14	63.49	0.00	0.00	198.35	23.22	14523.16
15	46.72	0.00	0.00	198.35	17.73	14353.80
16	46.06	0.00	0.00	198.35	14.56	14186.95
17	54.03	0.00	0.00	198.35	25.16	14017.47
18	31.44	0.00	0.00	198.35	20.48	13830.08
19	17.77	0.00	0.00	198.35	18.83	13630.67
20	20.53	0.00	0.00	198.35	18.68	13434.17
21	35.71	0.00	0.00	198.35	18.88	13252.65
22	47.43	0.00	0.00	198.35	11.38	13090.35
23	46.74	0.00	0.00	198.35	16.08	12922.66
24	34.69	0.00	0.00	198.35	14.52	12744.48
25	26.39	0.00	0.00	198.35	20.74	12551.78
26	37.64	0.00	0.00	198.35	14.06	12377.01
27	41.81	0.00	0.00	198.35	14.16	12206.31
28	64.81	0.00	0.00	198.35	14.00	12058.77
29	43.95	0.00	0.00	198.35	14.93	11889.44
30	28.11	0.00	0.00	198.35	19.83	11699.37
31	40.55	0.00	0.00	198.35	12.30	11529.27
	2712.19	0.00	0.00	4322.14	517.49	

OffsetAccount-Consumable Downstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						11862.89
1	54.00	0.00	0.00	0.00	3.16	11913.73
2	55.51	0.00	0.00	0.00	10.18	11959.06
3	51.85	0.00	0.00	0.00	16.67	11994.24
4	71.20	0.00	0.00	0.00	16.72	12048.72
5	92.22	0.00	0.00	0.00	10.27	12130.67
6	82.68	0.00	0.00	0.00	10.27	12203.08
7	55.65	0.00	0.00	0.00	10.32	12248.41
8	56.35	0.00	0.00	0.00	12.61	12292.15
9	74.50	0.00	0.00	0.00	14.29	12352.36
10	67.46	0.00	0.00	0.00	15.00	12404.82
11	44.10	0.00	0.00	0.00	14.72	12434.20
12	59.45	0.00	0.00	95.31	19.65	12378.69
13	63.09	0.00	0.00	198.35	19.53	12223.90
14	63.49	0.00	0.00	198.35	19.33	12069.71
15	46.72	0.00	0.00	198.35	14.73	11903.35
16	46.06	0.00	0.00	198.35	12.07	11738.99
17	54.03	0.00	0.00	198.35	20.82	11573.85
18	31.44	0.00	0.00	198.35	16.91	11390.03
19	17.77	0.00	0.00	198.35	15.51	11193.94
20	20.53	0.00	0.00	198.35	15.34	11000.78
21	35.71	0.00	0.00	198.35	15.46	10822.68
22	47.43	0.00	0.00	198.35	9.29	10662.47
23	46.74	0.00	0.00	198.35	13.09	10497.77
24	34.69	0.00	0.00	198.35	11.79	10322.32
25	26.39	0.00	0.00	198.35	16.79	10133.57
26	37.64	0.00	0.00	198.35	11.35	9961.51
27	41.81	0.00	0.00	198.35	11.39	9793.58
28	64.81	0.00	0.00	198.35	11.23	9648.81
29	43.95	0.00	0.00	198.35	11.94	9482.47
30	28.11	0.00	0.00	198.35	15.81	9296.42
31	40.55	0.00	0.00	198.35	9.77	9128.85
	1555.93	0.00	0.00	3863.96	426.01	

OffsetAccount-Consumable Kansas Charge

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						462.53
1	0.00	0.00	0.00	0.00	0.12	462.41
2	0.00	0.00	0.00	0.00	0.39	462.02
3	0.00	0.00	0.00	0.00	0.64	461.38
4	0.00	0.00	0.00	0.00	0.64	460.74
5	0.00	0.00	0.00	0.00	0.39	460.35
6	0.00	0.00	0.00	0.00	0.39	459.96
7	0.00	0.00	0.00	0.00	0.39	459.57
8	0.00	0.00	0.00	0.00	0.47	459.10
9	0.00	0.00	0.00	198.35	0.53	260.22
10	0.00	0.00	0.00	198.35	0.32	61.55
11	0.00	0.00	0.00	61.48	0.07	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	458.18	4.35	

OffsetAccount-ReturnFlow

Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						308.91
1	0.00	0.00	0.00	0.00	0.08	308.83
2	0.00	0.00	0.00	0.00	0.27	308.56
3	0.00	0.00	0.00	0.00	0.43	308.13
4	0.00	0.00	0.00	0.00	0.43	307.70
5	0.00	0.00	0.00	0.00	0.27	307.43
6	0.00	0.00	0.00	0.00	0.26	307.17
7	0.00	0.00	0.00	0.00	0.26	306.91
8	0.00	0.00	0.00	0.00	0.32	306.59
9	0.00	0.00	0.00	0.00	0.36	306.23
10	0.00	0.00	0.00	0.00	0.37	305.86
11	0.00	0.00	0.00	136.87	0.37	168.62
12	0.00	0.00	0.00	103.04	0.26	65.32
13	0.00	0.00	0.00	0.00	0.10	65.22
14	0.00	0.00	0.00	0.00	0.10	65.12
15	0.00	0.00	0.00	0.00	0.08	65.04
16	0.00	0.00	0.00	0.00	0.07	64.97
17	0.00	0.00	0.00	0.00	0.12	64.85
18	0.00	0.00	0.00	0.00	0.09	64.76
19	0.00	0.00	0.00	0.00	0.09	64.67
20	0.00	0.00	0.00	0.00	0.09	64.58
21	0.00	0.00	0.00	0.00	0.09	64.49
22	0.00	0.00	0.00	0.00	0.06	64.43
23	0.00	0.00	0.00	0.00	0.08	64.35
24	0.00	0.00	0.00	0.00	0.07	64.28
25	0.00	0.00	0.00	0.00	0.10	64.18
26	0.00	0.00	0.00	0.00	0.07	64.11
27	0.00	0.00	0.00	0.00	0.07	64.04
28	0.00	0.00	0.00	0.00	0.07	63.97
29	0.00	0.00	0.00	0.00	0.08	63.89
30	0.00	0.00	0.00	0.00	0.11	63.78
31	0.00	0.00	0.00	0.00	0.07	63.71
	0.00	0.00	0.00	239.91	5.29	

OffsetAccount-ReturnFlow

RF Transit Loss

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						66.17
1	0.00	0.00	0.00	0.00	0.02	66.15
2	0.00	0.00	0.00	0.00	0.06	66.09
3	0.00	0.00	0.00	0.00	0.09	66.00
4	0.00	0.00	0.00	0.00	0.09	65.91
5	0.00	0.00	0.00	0.00	0.06	65.85
6	0.00	0.00	0.00	0.00	0.06	65.79
7	0.00	0.00	0.00	0.00	0.06	65.73
8	0.00	0.00	0.00	0.00	0.07	65.66
9	0.00	0.00	0.00	0.00	0.08	65.58
10	0.00	0.00	0.00	0.00	0.08	65.50
11	0.00	0.00	0.00	0.00	0.08	65.42
12	0.00	0.00	0.00	0.00	0.10	65.32
13	0.00	0.00	0.00	0.00	0.10	65.22
14	0.00	0.00	0.00	0.00	0.10	65.12
15	0.00	0.00	0.00	0.00	0.08	65.04
16	0.00	0.00	0.00	0.00	0.07	64.97
17	0.00	0.00	0.00	0.00	0.12	64.85
18	0.00	0.00	0.00	0.00	0.09	64.76
19	0.00	0.00	0.00	0.00	0.09	64.67
20	0.00	0.00	0.00	0.00	0.09	64.58
21	0.00	0.00	0.00	0.00	0.09	64.49
22	0.00	0.00	0.00	0.00	0.06	64.43
23	0.00	0.00	0.00	0.00	0.08	64.35
24	0.00	0.00	0.00	0.00	0.07	64.28
25	0.00	0.00	0.00	0.00	0.10	64.18
26	0.00	0.00	0.00	0.00	0.07	64.11
27	0.00	0.00	0.00	0.00	0.07	64.04
28	0.00	0.00	0.00	0.00	0.07	63.97
29	0.00	0.00	0.00	0.00	0.08	63.89
30	0.00	0.00	0.00	0.00	0.11	63.78
31	0.00	0.00	0.00	0.00	0.07	63.71
	0.00	0.00	0.00	0.00	2.46	

OffsetAccount-ReturnFlow

Return Flow

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						242.74
1	0.00	0.00	0.00	0.00	0.06	242.68
2	0.00	0.00	0.00	0.00	0.21	242.47
3	0.00	0.00	0.00	0.00	0.34	242.13
4	0.00	0.00	0.00	0.00	0.34	241.79
5	0.00	0.00	0.00	0.00	0.21	241.58
6	0.00	0.00	0.00	0.00	0.20	241.38
7	0.00	0.00	0.00	0.00	0.20	241.18
8	0.00	0.00	0.00	0.00	0.25	240.93
9	0.00	0.00	0.00	0.00	0.28	240.65
10	0.00	0.00	0.00	0.00	0.29	240.36
11	0.00	0.00	0.00	136.87	0.29	103.20
12	0.00	0.00	0.00	103.04	0.16	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	239.91	2.83	

John Martin Reservoir Accounting: July 2019

A	B	C	AG	AH	AI
NOTE: When adding a new column, copy over formulas in rows 375:385 (which pull from MASTER) to feed data to the					
Label 1			Highland Canal	Highland Canal	CPWDA
Label 2			Permenent Pool	Downstream Consumable	Pueblo Res.
Label 3			PURHILCO	PURHILCO	Offset Storage (UPSTREAM)
Date	Day	YrMo	Highland Canal Permenent Pool PURHILCO	l Downstream Consumat	CPWDA Pueblo Res. Offset Storage (UPSTREAM)
6/23/2019 0:00:00	Sun	201906	12.85	4.15	
6/24/2019 0:00:00	Mon	201906	11.97	17.63	
6/25/2019 0:00:00	Tue	201906	11.97	18.20	
6/26/2019 0:00:00	Wed	201906	11.97	19.99	
6/27/2019 0:00:00	Thu	201906	12.07	20.50	
6/28/2019 0:00:00	Fri	201906	11.57	20.48	
6/29/2019 0:00:00	Sat	201906	10.98	19.55	
6/30/2019 0:00:00	Sun	201906	10.59	19.43	
7/1/2019 0:00:00	Mon	201907	12.08	18.86	
7/2/2019 0:00:00	Tue	201907	12.18	21.06	
7/3/2019 0:00:00	Wed	201907	16.70	17.58	24.09
7/4/2019 0:00:00	Thu	201907	16.70	18.08	578.13
7/5/2019 0:00:00	Fri	201907	18.07	16.73	554.04
7/6/2019 0:00:00	Sat	201907	18.96	16.15	0.00
7/7/2019 0:00:00	Sun	201907	19.25	16.05	
7/8/2019 0:00:00	Mon	201907	19.65	15.77	
7/9/2019 0:00:00	Tue	201907	19.45	15.89	
7/10/2019 0:00:00	Wed	201907	18.96	16.45	
7/11/2019 0:00:00	Thu	201907	16.50	18.96	
7/12/2019 0:00:00	Fri	201907	15.42	19.86	
7/13/2019 0:00:00	Sat	201907	14.83	20.50	
7/14/2019 0:00:00	Sun	201907	15.13	19.47	
7/15/2019 0:00:00	Mon	201907	16.21	18.47	
7/16/2019 0:00:00	Tue	201907	14.34	10.28	
7/17/2019 0:00:00	Wed	201907	11.98	9.63	
7/18/2019 0:00:00	Thu	201907	15.91	8.86	
7/19/2019 0:00:00	Fri	201907			
7/20/2019 0:00:00	Sat	201907			
7/21/2019 0:00:00	Sun	201907			

Enclosure 3

Source of Fully Consumable Water Documentation from CWPDA/Colorado Springs Utilities

Subject: Re: CWPDA Delivery to JMR

Bruce Hughes <bhughes@ccanal.net>
to Tyner - DNR, Bill, Kent Ricken, Stacey Sober, Van Oort, John, Rachel Zancanella

Please see the correction below for the Colorado Canal and TLRC waters. My error!

Bruce

Twin Lakes
Colorado Canal Company
719 267 4411 office
719 980 3226 cell

On 7/2/2019 7:50 AM, Bruce Hughes wrote:

> Kent and Bill,
>
> On July 1st CWPDA released 10.81 cfs of Colorado Canal C/U water, 15.85 cfs TLRC Ark Riv Nat, 49.21 c and 98.81 cfs Rocky Ford. Today the release will be 315.10 cfs of Colorado Canal C/U and tomorrow it will cfs of Colorado Canal C/U water. Please let me know if this will suffice for the report you need to send. Thi total of 1250 af.
>
> Thanks
>
> Bruce
>
> Twin Lakes
> Colorado Canal Company
> 719 267 4411 office
> 719 980 3226 cell
>
> On 6/28/2019 1:37 PM, Tyner - DNR, Bill wrote:
>
> > This will be good enough for the initial notice and we can get exact details for the post-delivery letter.
> >
> > *Bill W. Tyner, P.E.Division EngineerDivision 2P 719.542.3368 x2110 | F 719.544.0800310 East Abriendo Ave. Suite B Pueblo, CO 81004Bill.Tyner@state.co.us <bill.tyner@state.co.us> | www.water.state.co.us <http://www.water.state.co.us/>*

Subject: FW: CWPDA to JRM

ssober@ccanal.net
to Kent Ricken, Bruce Hughes

FYI,

From: ssober@ccanal.net <ssober@ccanal.net>
Sent: Friday, July 5, 2019 9:03 AM
To: 'Kalsoum Abbasi' <kabbasi@csu.org>
Cc: Bruce Hughes <bhughes@ccanal.net>
Subject: CWPDA to JRM

Hi Kalsoum,

On July 2 301.88 cfs (598.78 AF) was release from CSU for CWPDA to JRM
On July 3 144.42 cfs (286.46 AF) was release from CSU for CWPDA to JRM
A Total of 446.3 cfs (885.24 AF) .

Have a good day,

Stacey L. Sober
Water Accounts
Twin Lakes
Colorado Canal company
(719) 267-4411 office
(719) 469-3268 cell

Colorado Springs Utilities
It's how we're all connected

August 5, 2019

VIA EMAIL

Bill Tyner
Colorado Division of Water Resources
Division 2 Engineer
310 E. Abriendo Ave., Suite B
Pueblo, CO 81004

Dear Mr. Tyner:

On July 2 and 3, 2019 Colorado Springs Utilities released 885.24 acre-feet of fully reusable water from Lake Meredith to the Arkansas River for the Colorado Water Protective and Development Association (CWPDA). Specifically, the water leased was the fully-consumable portion of Colorado Springs' Colorado Canal rights. This water was delivered by CWPDA to the Offset Account in John Martin Reservoir.

CWPDA is responsible for obtaining approval by the State Engineer or Division 2 Engineer, as well as all other necessary approvals required for delivery of this water from Lake Meredith to John Martin Reservoir.

Please contact me at (719) 668-8758 if you have any questions.

Sincerely,

Kalsoum Abbasi, P.E.
Planning Supervisor, Water Conveyance

cc: Rachel Zancanella
John Van Oort

1521 South Hancock Expressway
P.O. Box 1103, Mail Code 1825
Colorado Springs, CO 80947-1825

Phone 719.448.8888
www@csu.org

COLORADO
Division of Water Resources
Department of Natural Resources
Water Division 2 – Main Office

Revised: January 7, 2020

October 30, 2019

David Barfield
Kansas Chief Engineer
Kansas Board of Agriculture
901 S. Kansas Avenue, 2nd Floor
Topeka, KS 66612-1283

Subject: Notice of Release of Offset Account Water from John Martin Reservoir

Dear Mr. Barfield:

The purpose of this letter is to provide accounting for a release of water from the Offset Account in John Martin Reservoir for delivery to the Stateline as called for by the Kansas Chief Engineer in accordance with the Resolution Concerning an Offset Account in John Martin Reservoir for Colorado Pumping As Amended March 30, 1998 ("Resolution"), the Stipulation Re Offset Account in John Martin Reservoir dated March 17, 1997 ("Stipulation") and the Agreement Concerning the Offset Account in John Martin Reservoir for Colorado Pumping, dated September 2005.

Staff for the Kansas Chief Engineer requested an initial release of water from the Offset Account beginning on July 9, 2019 at the rate of 100 cfs (This was part of a combined release with Section II water being released at the same time at a rate of 450 cfs). The overall release began initially on June 19, 2019 as a release of Kansas Section II water only. This stepped release from the Offset Account was executed in the following manner: July 9 – August 8, 2019: 100 cfs, August 9, 2019: 68.75 cfs, August 10 – August 12, 2019: 60 cfs. Initially it was reported that water was released from the Offset Account at a rate of 60 cfs (119.01 ac-ft total) on August 12, however, in actuality the data entered in JMAS was a release at 50.0 cfs for a total of only 99.18 af-ft on this day. In review of the error, the accounting was changed to reflect the actual amount released according to JMAS. On August 13, 2019, the release rate returned to the 60.0 cfs release (119.01 ac-ft/day) through August 25th, 2019. On August 26th 2019, the rate was reduced to 50 cfs where it stayed until the end of the release on September 9, 2019. The Offset Account portion of the release began at approximately 00:00 hours, July 9, 2019 and ended at approximately 24:00 hours on September 9, 2019. Transit losses on the release of water from the Offset Account were determined using the procedure described in the Agreement Concerning the Offset Account in John Martin Reservoir for Colorado Pumping, dated September 2005.

Enclosure 1 shows the quantities of water that were in the various subaccounts of the Offset Account prior to the initiation of the release, during the release, and following the release of all water from the account.

Enclosure 2 also shows the credit at the Stateline for the delivery of the fully consumable water released from the Offset Account. The credit was determined in accordance with the Agreement Concerning the Offset Account in John Martin Reservoir for Colorado Pumping and was 8,045 acre-feet of consumable water at the stateline.

Please contact me if you have any questions or require additional information.

Sincerely,

Bill W. Tyner

Bill W. Tyner, P.E.
Division Engineer, Division 2
Colorado Division of Water Resources

2 Enclosures

Ec: Kevin Salter
Dale Book
Dan Steuer
Randy Hendrix
Don Higbee
Rachel Zancanella
John Van Oort
Bethany Arnold

Offset Account — July 2019

OffsetAccount-Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						13965.62
1	54.00	0.00	0.00	0.00	3.71	14015.91
2	55.51	0.00	0.00	0.00	11.98	14059.44
3	75.94	0.00	0.00	0.00	19.59	14115.79
4	649.33	0.00	0.00	0.00	19.67	14745.45
5	646.26	0.00	0.00	0.00	12.57	15379.14
6	82.68	0.00	0.00	0.00	13.02	15448.80
7	55.65	0.00	0.00	0.00	13.07	15491.38
8	56.35	0.00	0.00	0.00	15.95	15531.78
9	74.50	0.00	0.00	198.35	18.06	15389.87
10	67.46	0.00	0.00	198.35	18.69	15240.29
11	44.10	0.00	0.00	198.35	18.09	15067.95
12	59.45	0.00	0.00	198.35	23.81	14905.24
13	63.09	0.00	0.00	198.35	23.52	14746.46
14	63.49	0.00	0.00	198.35	23.32	14588.28
15	46.72	0.00	0.00	198.35	17.81	14418.84
16	46.06	0.00	0.00	198.35	14.63	14251.92
17	54.03	0.00	0.00	198.35	25.28	14082.32
18	31.44	0.00	0.00	198.35	20.57	13894.84
19	17.77	0.00	0.00	198.35	18.92	13695.34
20	20.53	0.00	0.00	198.35	18.77	13498.75
21	35.71	0.00	0.00	198.35	18.97	13317.14
22	47.43	0.00	0.00	198.35	11.44	13154.78
23	46.74	0.00	0.00	198.35	16.16	12987.01
24	34.69	0.00	0.00	198.35	14.59	12808.76
25	26.39	0.00	0.00	198.35	20.84	12615.96
26	37.64	0.00	0.00	198.35	14.13	12441.12
27	41.81	0.00	0.00	198.35	14.23	12270.35
28	64.81	0.00	0.00	198.35	14.07	12122.74
29	43.95	0.00	0.00	198.35	15.01	11953.33
30	28.11	0.00	0.00	198.35	19.94	11763.15
31	40.55	0.00	0.00	198.35	12.37	11592.98
	2712.19	0.00	0.00	4562.05	522.78	

OffsetAccount-Consumable Upstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						1331.29
1	0.00	0.00	0.00	0.00	0.35	1330.94
2	0.00	0.00	0.00	0.00	1.14	1329.80
3	24.09	0.00	0.00	0.00	1.85	1352.04
4	578.13	0.00	0.00	0.00	1.88	1928.29
5	554.04	0.00	0.00	0.00	1.64	2480.69
6	0.00	0.00	0.00	0.00	2.10	2478.59
7	0.00	0.00	0.00	0.00	2.10	2476.49
8	0.00	0.00	0.00	0.00	2.55	2473.94
9	0.00	0.00	0.00	0.00	2.88	2471.06
10	0.00	0.00	0.00	0.00	3.00	2468.06
11	0.00	0.00	0.00	0.00	2.93	2465.13
12	0.00	0.00	0.00	0.00	3.90	2461.23
13	0.00	0.00	0.00	0.00	3.89	2457.34
14	0.00	0.00	0.00	0.00	3.89	2453.45
15	0.00	0.00	0.00	0.00	3.00	2450.45
16	0.00	0.00	0.00	0.00	2.49	2447.96
17	0.00	0.00	0.00	0.00	4.34	2443.62
18	0.00	0.00	0.00	0.00	3.57	2440.05
19	0.00	0.00	0.00	0.00	3.32	2436.73
20	0.00	0.00	0.00	0.00	3.34	2433.39
21	0.00	0.00	0.00	0.00	3.42	2429.97
22	0.00	0.00	0.00	0.00	2.09	2427.88
23	0.00	0.00	0.00	0.00	2.99	2424.89
24	0.00	0.00	0.00	0.00	2.73	2422.16
25	0.00	0.00	0.00	0.00	3.95	2418.21
26	0.00	0.00	0.00	0.00	2.71	2415.50
27	0.00	0.00	0.00	0.00	2.77	2412.73
28	0.00	0.00	0.00	0.00	2.77	2409.96
29	0.00	0.00	0.00	0.00	2.99	2406.97
30	0.00	0.00	0.00	0.00	4.02	2402.95
31	0.00	0.00	0.00	0.00	2.53	2400.42
	1156.26	0.00	0.00	0.00	87.13	

OffsetAccount-Consumable Kansas

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-Consumable Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						13656.71
1	54.00	0.00	0.00	0.00	3.63	13707.08
2	55.51	0.00	0.00	0.00	11.71	13750.88
3	75.94	0.00	0.00	0.00	19.16	13807.66
4	649.33	0.00	0.00	0.00	19.24	14437.75
5	646.26	0.00	0.00	0.00	12.30	15071.71
6	82.68	0.00	0.00	0.00	12.76	15141.63
7	55.65	0.00	0.00	0.00	12.81	15184.47
8	56.35	0.00	0.00	0.00	15.63	15225.19
9	74.50	0.00	0.00	198.35	17.70	15083.64
10	67.46	0.00	0.00	198.35	18.32	14934.43
11	44.10	0.00	0.00	61.48	17.72	14899.33
12	59.45	0.00	0.00	95.31	23.55	14839.92
13	63.09	0.00	0.00	198.35	23.42	14681.24
14	63.49	0.00	0.00	198.35	23.22	14523.16
15	46.72	0.00	0.00	198.35	17.73	14353.80
16	46.06	0.00	0.00	198.35	14.56	14186.95
17	54.03	0.00	0.00	198.35	25.16	14017.47
18	31.44	0.00	0.00	198.35	20.48	13830.08
19	17.77	0.00	0.00	198.35	18.83	13630.67
20	20.53	0.00	0.00	198.35	18.68	13434.17
21	35.71	0.00	0.00	198.35	18.88	13252.65
22	47.43	0.00	0.00	198.35	11.38	13090.35
23	46.74	0.00	0.00	198.35	16.08	12922.66
24	34.69	0.00	0.00	198.35	14.52	12744.48
25	26.39	0.00	0.00	198.35	20.74	12551.78
26	37.64	0.00	0.00	198.35	14.06	12377.01
27	41.81	0.00	0.00	198.35	14.16	12206.31
28	64.81	0.00	0.00	198.35	14.00	12058.77
29	43.95	0.00	0.00	198.35	14.93	11889.44
30	28.11	0.00	0.00	198.35	19.83	11699.37
31	40.55	0.00	0.00	198.35	12.30	11529.27
	2712.19	0.00	0.00	4322.14	517.49	

OffsetAccount-Consumable Downstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						11862.89
1	54.00	0.00	0.00	0.00	3.16	11913.73
2	55.51	0.00	0.00	0.00	10.18	11959.06
3	51.85	0.00	0.00	0.00	16.67	11994.24
4	71.20	0.00	0.00	0.00	16.72	12048.72
5	92.22	0.00	0.00	0.00	10.27	12130.67
6	82.68	0.00	0.00	0.00	10.27	12203.08
7	55.65	0.00	0.00	0.00	10.32	12248.41
8	56.35	0.00	0.00	0.00	12.61	12292.15
9	74.50	0.00	0.00	0.00	14.29	12352.36
10	67.46	0.00	0.00	0.00	15.00	12404.82
11	44.10	0.00	0.00	0.00	14.72	12434.20
12	59.45	0.00	0.00	95.31	19.65	12378.69
13	63.09	0.00	0.00	198.35	19.53	12223.90
14	63.49	0.00	0.00	198.35	19.33	12069.71
15	46.72	0.00	0.00	198.35	14.73	11903.35
16	46.06	0.00	0.00	198.35	12.07	11738.99
17	54.03	0.00	0.00	198.35	20.82	11573.85
18	31.44	0.00	0.00	198.35	16.91	11390.03
19	17.77	0.00	0.00	198.35	15.51	11193.94
20	20.53	0.00	0.00	198.35	15.34	11000.78
21	35.71	0.00	0.00	198.35	15.46	10822.68
22	47.43	0.00	0.00	198.35	9.29	10662.47
23	46.74	0.00	0.00	198.35	13.09	10497.77
24	34.69	0.00	0.00	198.35	11.79	10322.32
25	26.39	0.00	0.00	198.35	16.79	10133.57
26	37.64	0.00	0.00	198.35	11.35	9961.51
27	41.81	0.00	0.00	198.35	11.39	9793.58
28	64.81	0.00	0.00	198.35	11.23	9648.81
29	43.95	0.00	0.00	198.35	11.94	9482.47
30	28.11	0.00	0.00	198.35	15.81	9296.42
31	40.55	0.00	0.00	198.35	9.77	9128.85
	1555.93	0.00	0.00	3863.96	426.01	

OffsetAccount-Consumable Kansas Charge

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						462.53
1	0.00	0.00	0.00	0.00	0.12	462.41
2	0.00	0.00	0.00	0.00	0.39	462.02
3	0.00	0.00	0.00	0.00	0.64	461.38
4	0.00	0.00	0.00	0.00	0.64	460.74
5	0.00	0.00	0.00	0.00	0.39	460.35
6	0.00	0.00	0.00	0.00	0.39	459.96
7	0.00	0.00	0.00	0.00	0.39	459.57
8	0.00	0.00	0.00	0.00	0.47	459.10
9	0.00	0.00	0.00	198.35	0.53	260.22
10	0.00	0.00	0.00	198.35	0.32	61.55
11	0.00	0.00	0.00	61.48	0.07	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	458.18	4.35	

OffsetAccount-ReturnFlow

Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						308.91
1	0.00	0.00	0.00	0.00	0.08	308.83
2	0.00	0.00	0.00	0.00	0.27	308.56
3	0.00	0.00	0.00	0.00	0.43	308.13
4	0.00	0.00	0.00	0.00	0.43	307.70
5	0.00	0.00	0.00	0.00	0.27	307.43
6	0.00	0.00	0.00	0.00	0.26	307.17
7	0.00	0.00	0.00	0.00	0.26	306.91
8	0.00	0.00	0.00	0.00	0.32	306.59
9	0.00	0.00	0.00	0.00	0.36	306.23
10	0.00	0.00	0.00	0.00	0.37	305.86
11	0.00	0.00	0.00	136.87	0.37	168.62
12	0.00	0.00	0.00	103.04	0.26	65.32
13	0.00	0.00	0.00	0.00	0.10	65.22
14	0.00	0.00	0.00	0.00	0.10	65.12
15	0.00	0.00	0.00	0.00	0.08	65.04
16	0.00	0.00	0.00	0.00	0.07	64.97
17	0.00	0.00	0.00	0.00	0.12	64.85
18	0.00	0.00	0.00	0.00	0.09	64.76
19	0.00	0.00	0.00	0.00	0.09	64.67
20	0.00	0.00	0.00	0.00	0.09	64.58
21	0.00	0.00	0.00	0.00	0.09	64.49
22	0.00	0.00	0.00	0.00	0.06	64.43
23	0.00	0.00	0.00	0.00	0.08	64.35
24	0.00	0.00	0.00	0.00	0.07	64.28
25	0.00	0.00	0.00	0.00	0.10	64.18
26	0.00	0.00	0.00	0.00	0.07	64.11
27	0.00	0.00	0.00	0.00	0.07	64.04
28	0.00	0.00	0.00	0.00	0.07	63.97
29	0.00	0.00	0.00	0.00	0.08	63.89
30	0.00	0.00	0.00	0.00	0.11	63.78
31	0.00	0.00	0.00	0.00	0.07	63.71
	0.00	0.00	0.00	239.91	5.29	

OffsetAccount-ReturnFlow

RF Transit Loss

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						66.17
1	0.00	0.00	0.00	0.00	0.02	66.15
2	0.00	0.00	0.00	0.00	0.06	66.09
3	0.00	0.00	0.00	0.00	0.09	66.00
4	0.00	0.00	0.00	0.00	0.09	65.91
5	0.00	0.00	0.00	0.00	0.06	65.85
6	0.00	0.00	0.00	0.00	0.06	65.79
7	0.00	0.00	0.00	0.00	0.06	65.73
8	0.00	0.00	0.00	0.00	0.07	65.66
9	0.00	0.00	0.00	0.00	0.08	65.58
10	0.00	0.00	0.00	0.00	0.08	65.50
11	0.00	0.00	0.00	0.00	0.08	65.42
12	0.00	0.00	0.00	0.00	0.10	65.32
13	0.00	0.00	0.00	0.00	0.10	65.22
14	0.00	0.00	0.00	0.00	0.10	65.12
15	0.00	0.00	0.00	0.00	0.08	65.04
16	0.00	0.00	0.00	0.00	0.07	64.97
17	0.00	0.00	0.00	0.00	0.12	64.85
18	0.00	0.00	0.00	0.00	0.09	64.76
19	0.00	0.00	0.00	0.00	0.09	64.67
20	0.00	0.00	0.00	0.00	0.09	64.58
21	0.00	0.00	0.00	0.00	0.09	64.49
22	0.00	0.00	0.00	0.00	0.06	64.43
23	0.00	0.00	0.00	0.00	0.08	64.35
24	0.00	0.00	0.00	0.00	0.07	64.28
25	0.00	0.00	0.00	0.00	0.10	64.18
26	0.00	0.00	0.00	0.00	0.07	64.11
27	0.00	0.00	0.00	0.00	0.07	64.04
28	0.00	0.00	0.00	0.00	0.07	63.97
29	0.00	0.00	0.00	0.00	0.08	63.89
30	0.00	0.00	0.00	0.00	0.11	63.78
31	0.00	0.00	0.00	0.00	0.07	63.71
	0.00	0.00	0.00	0.00	2.46	

OffsetAccount-ReturnFlow

Return Flow

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						242.74
1	0.00	0.00	0.00	0.00	0.06	242.68
2	0.00	0.00	0.00	0.00	0.21	242.47
3	0.00	0.00	0.00	0.00	0.34	242.13
4	0.00	0.00	0.00	0.00	0.34	241.79
5	0.00	0.00	0.00	0.00	0.21	241.58
6	0.00	0.00	0.00	0.00	0.20	241.38
7	0.00	0.00	0.00	0.00	0.20	241.18
8	0.00	0.00	0.00	0.00	0.25	240.93
9	0.00	0.00	0.00	0.00	0.28	240.65
10	0.00	0.00	0.00	0.00	0.29	240.36
11	0.00	0.00	0.00	136.87	0.29	103.20
12	0.00	0.00	0.00	103.04	0.16	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	239.91	2.83	

OffsetAccount-Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						11592.98
1	66.30	0.00	0.00	198.35	10.90	11450.03
2	54.07	0.00	0.00	198.35	15.72	11290.03
3	35.35	0.00	0.00	198.35	15.53	11111.50
4	22.26	0.00	0.00	198.35	15.66	10919.75
5	22.70	0.00	0.00	198.35	12.61	10731.49
6	45.32	0.00	0.00	198.35	12.14	10566.32
7	35.72	0.00	0.00	198.35	16.33	10387.36
8	61.47	0.00	0.00	198.35	14.00	10236.48
9	62.02	0.00	0.00	136.37	7.54	10154.59
10	38.69	0.00	0.00	119.01	7.49	10066.78
11	36.22	0.00	0.00	119.01	7.43	9976.56
12	37.16	0.00	0.00	99.18	11.16	9903.38
13	44.85	0.00	0.00	119.01	16.53	9812.69
14	63.65	0.00	0.00	119.01	10.35	9746.98
15	42.62	0.00	0.00	119.01	13.17	9657.42
16	40.73	0.00	0.00	119.01	9.13	9570.01
17	61.54	0.00	0.00	119.01	9.09	9503.45
18	46.99	0.00	0.00	119.01	8.79	9422.64
19	12.61	0.00	0.00	119.01	13.25	9302.99
20	23.40	0.00	0.00	119.01	9.79	9197.59
21	20.16	0.00	0.00	119.01	9.16	9089.58
22	14.70	0.00	0.00	119.01	11.57	8973.70
23	9.59	0.00	0.00	119.01	10.40	8853.88
24	17.82	0.00	0.00	119.01	10.33	8742.36
25	40.49	0.00	0.00	119.01	10.25	8653.59
26	33.30	0.00	0.00	107.44	9.14	8570.31
27	12.47	0.00	0.00	99.18	9.89	8473.71
28	20.42	0.00	0.00	99.18	8.74	8386.21
29	18.50	0.00	0.00	99.18	11.04	8294.49
30	8.89	0.00	0.00	99.18	9.88	8194.32
31	1.06	0.00	0.00	99.18	9.25	8086.95
	1051.07	0.00	0.00	4210.84	346.26	

OffsetAccount-Consumable Upstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						2400.42
1	0.00	0.00	0.00	0.00	2.26	2398.16
2	0.00	0.00	0.00	0.00	3.29	2394.87
3	0.00	0.00	0.00	0.00	3.29	2391.58
4	0.00	0.00	0.00	0.00	3.37	2388.21
5	0.00	0.00	0.00	0.00	2.76	2385.45
6	0.00	0.00	0.00	0.00	2.70	2382.75
7	0.00	0.00	0.00	0.00	3.68	2379.07
8	0.00	0.00	0.00	0.00	3.21	2375.86
9	0.00	0.00	0.00	0.00	1.75	2374.11
10	0.00	0.00	0.00	0.00	1.75	2372.36
11	0.00	0.00	0.00	0.00	1.75	2370.61
12	0.00	0.00	0.00	0.00	2.65	2367.96
13	0.00	0.00	0.00	0.00	3.95	2364.01
14	0.00	0.00	0.00	0.00	2.49	2361.52
15	0.00	0.00	0.00	0.00	3.19	2358.33
16	0.00	0.00	0.00	0.00	2.23	2356.10
17	0.00	0.00	0.00	0.00	2.24	2353.86
18	0.00	0.00	0.00	0.00	2.18	2351.68
19	0.00	0.00	0.00	0.00	3.31	2348.37
20	0.00	0.00	0.00	0.00	2.47	2345.90
21	0.00	0.00	0.00	0.00	2.34	2343.56
22	0.00	0.00	0.00	0.00	2.98	2340.58
23	0.00	0.00	0.00	0.00	2.71	2337.87
24	0.00	0.00	0.00	0.00	2.73	2335.14
25	0.00	0.00	0.00	0.00	2.74	2332.40
26	0.00	0.00	0.00	0.00	2.46	2329.94
27	0.00	0.00	0.00	0.00	2.69	2327.25
28	0.00	0.00	0.00	0.00	2.40	2324.85
29	0.00	0.00	0.00	0.00	3.06	2321.79
30	0.00	0.00	0.00	0.00	2.77	2319.02
31	0.00	0.00	0.00	0.00	2.62	2316.40
	0.00	0.00	0.00	0.00	84.02	

OffsetAccount-Consumable Kansas

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-Consumable Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						11529.27
1	66.30	0.00	0.00	198.35	10.84	11386.38
2	54.07	0.00	0.00	198.35	15.63	11226.47
3	35.35	0.00	0.00	198.35	15.44	11048.03
4	22.26	0.00	0.00	198.35	15.57	10856.37
5	22.70	0.00	0.00	198.35	12.54	10668.18
6	45.32	0.00	0.00	198.35	12.07	10503.08
7	35.72	0.00	0.00	198.35	16.23	10324.22
8	61.47	0.00	0.00	198.35	13.91	10173.43
9	62.02	0.00	0.00	136.37	7.49	10091.59
10	38.69	0.00	0.00	119.01	7.44	10003.83
11	36.22	0.00	0.00	119.01	7.38	9913.66
12	37.16	0.00	0.00	99.18	11.09	9840.55
13	44.85	0.00	0.00	119.01	16.43	9749.96
14	63.65	0.00	0.00	119.01	10.28	9684.32
15	42.62	0.00	0.00	119.01	13.09	9594.84
16	40.73	0.00	0.00	119.01	9.07	9507.49
17	61.54	0.00	0.00	119.01	9.03	9440.99
18	46.99	0.00	0.00	119.01	8.73	9360.24
19	12.61	0.00	0.00	119.01	13.16	9240.68
20	23.40	0.00	0.00	119.01	9.72	9135.35
21	20.16	0.00	0.00	119.01	9.10	9027.40
22	14.70	0.00	0.00	119.01	11.49	8911.60
23	9.59	0.00	0.00	119.01	10.33	8791.85
24	17.82	0.00	0.00	119.01	10.26	8680.40
25	40.49	0.00	0.00	119.01	10.18	8591.70
26	33.30	0.00	0.00	107.44	9.07	8508.49
27	12.47	0.00	0.00	99.18	9.82	8411.96
28	20.42	0.00	0.00	99.18	8.68	8324.52
29	18.50	0.00	0.00	99.18	10.96	8232.88
30	8.89	0.00	0.00	99.18	9.81	8132.78
31	1.06	0.00	0.00	99.18	9.18	8025.48
	1051.07	0.00	0.00	4210.84	344.02	

OffsetAccount-Consumable Downstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						9128.85
1	66.30	0.00	0.00	198.35	8.58	8988.22
2	54.07	0.00	0.00	198.35	12.34	8831.60
3	35.35	0.00	0.00	198.35	12.15	8656.45
4	22.26	0.00	0.00	198.35	12.20	8468.16
5	22.70	0.00	0.00	198.35	9.78	8282.73
6	45.32	0.00	0.00	198.35	9.37	8120.33
7	35.72	0.00	0.00	198.35	12.55	7945.15
8	61.47	0.00	0.00	198.35	10.70	7797.57
9	62.02	0.00	0.00	136.37	5.74	7717.48
10	38.69	0.00	0.00	119.01	5.69	7631.47
11	36.22	0.00	0.00	119.01	5.63	7543.05
12	37.16	0.00	0.00	99.18	8.44	7472.59
13	44.85	0.00	0.00	119.01	12.48	7385.95
14	63.65	0.00	0.00	119.01	7.79	7322.80
15	42.62	0.00	0.00	119.01	9.90	7236.51
16	40.73	0.00	0.00	119.01	6.84	7151.39
17	61.54	0.00	0.00	119.01	6.79	7087.13
18	46.99	0.00	0.00	119.01	6.55	7008.56
19	12.61	0.00	0.00	119.01	9.85	6892.31
20	23.40	0.00	0.00	119.01	7.25	6789.45
21	20.16	0.00	0.00	119.01	6.76	6683.84
22	14.70	0.00	0.00	119.01	8.51	6571.02
23	9.59	0.00	0.00	119.01	7.62	6453.98
24	17.82	0.00	0.00	119.01	7.53	6345.26
25	40.49	0.00	0.00	119.01	7.44	6259.30
26	33.30	0.00	0.00	107.44	6.61	6178.55
27	12.47	0.00	0.00	99.18	7.13	6084.71
28	20.42	0.00	0.00	99.18	6.28	5999.67
29	18.50	0.00	0.00	99.18	7.90	5911.09
30	8.89	0.00	0.00	99.18	7.04	5813.76
31	1.06	0.00	0.00	99.18	6.56	5709.08
	1051.07	0.00	0.00	4210.84	260.00	

OffsetAccount-Consumable Kansas Charge

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-ReturnFlow

Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						63.71
1	0.00	0.00	0.00	0.00	0.06	63.65
2	0.00	0.00	0.00	0.00	0.09	63.56
3	0.00	0.00	0.00	0.00	0.09	63.47
4	0.00	0.00	0.00	0.00	0.09	63.38
5	0.00	0.00	0.00	0.00	0.07	63.31
6	0.00	0.00	0.00	0.00	0.07	63.24
7	0.00	0.00	0.00	0.00	0.10	63.14
8	0.00	0.00	0.00	0.00	0.09	63.05
9	0.00	0.00	0.00	0.00	0.05	63.00
10	0.00	0.00	0.00	0.00	0.05	62.95
11	0.00	0.00	0.00	0.00	0.05	62.90
12	0.00	0.00	0.00	0.00	0.07	62.83
13	0.00	0.00	0.00	0.00	0.10	62.73
14	0.00	0.00	0.00	0.00	0.07	62.66
15	0.00	0.00	0.00	0.00	0.08	62.58
16	0.00	0.00	0.00	0.00	0.06	62.52
17	0.00	0.00	0.00	0.00	0.06	62.46
18	0.00	0.00	0.00	0.00	0.06	62.40
19	0.00	0.00	0.00	0.00	0.09	62.31
20	0.00	0.00	0.00	0.00	0.07	62.24
21	0.00	0.00	0.00	0.00	0.06	62.18
22	0.00	0.00	0.00	0.00	0.08	62.10
23	0.00	0.00	0.00	0.00	0.07	62.03
24	0.00	0.00	0.00	0.00	0.07	61.96
25	0.00	0.00	0.00	0.00	0.07	61.89
26	0.00	0.00	0.00	0.00	0.07	61.82
27	0.00	0.00	0.00	0.00	0.07	61.75
28	0.00	0.00	0.00	0.00	0.06	61.69
29	0.00	0.00	0.00	0.00	0.08	61.61
30	0.00	0.00	0.00	0.00	0.07	61.54
31	0.00	0.00	0.00	0.00	0.07	61.47
	0.00	0.00	0.00	0.00	2.24	

OffsetAccount-ReturnFlow

RF Transit Loss

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						63.71
1	0.00	0.00	0.00	0.00	0.06	63.65
2	0.00	0.00	0.00	0.00	0.09	63.56
3	0.00	0.00	0.00	0.00	0.09	63.47
4	0.00	0.00	0.00	0.00	0.09	63.38
5	0.00	0.00	0.00	0.00	0.07	63.31
6	0.00	0.00	0.00	0.00	0.07	63.24
7	0.00	0.00	0.00	0.00	0.10	63.14
8	0.00	0.00	0.00	0.00	0.09	63.05
9	0.00	0.00	0.00	0.00	0.05	63.00
10	0.00	0.00	0.00	0.00	0.05	62.95
11	0.00	0.00	0.00	0.00	0.05	62.90
12	0.00	0.00	0.00	0.00	0.07	62.83
13	0.00	0.00	0.00	0.00	0.10	62.73
14	0.00	0.00	0.00	0.00	0.07	62.66
15	0.00	0.00	0.00	0.00	0.08	62.58
16	0.00	0.00	0.00	0.00	0.06	62.52
17	0.00	0.00	0.00	0.00	0.06	62.46
18	0.00	0.00	0.00	0.00	0.06	62.40
19	0.00	0.00	0.00	0.00	0.09	62.31
20	0.00	0.00	0.00	0.00	0.07	62.24
21	0.00	0.00	0.00	0.00	0.06	62.18
22	0.00	0.00	0.00	0.00	0.08	62.10
23	0.00	0.00	0.00	0.00	0.07	62.03
24	0.00	0.00	0.00	0.00	0.07	61.96
25	0.00	0.00	0.00	0.00	0.07	61.89
26	0.00	0.00	0.00	0.00	0.07	61.82
27	0.00	0.00	0.00	0.00	0.07	61.75
28	0.00	0.00	0.00	0.00	0.06	61.69
29	0.00	0.00	0.00	0.00	0.08	61.61
30	0.00	0.00	0.00	0.00	0.07	61.54
31	0.00	0.00	0.00	0.00	0.07	61.47
	0.00	0.00	0.00	0.00	2.24	

OffsetAccount-ReturnFlow

Return Flow

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						8086.95
1	8.71	0.00	0.00	99.18	9.14	7987.34
2	17.73	0.00	0.00	99.18	9.03	7896.86
3	39.10	0.00	0.00	99.18	10.68	7826.10
4	30.08	0.00	0.00	99.18	13.58	7743.42
5	12.46	0.00	0.00	99.18	7.84	7648.86
6	23.76	0.00	0.00	99.18	11.66	7561.78
7	20.43	0.00	0.00	99.18	11.57	7471.46
8	11.50	0.00	0.00	99.18	11.75	7372.03
9	16.01	0.00	0.00	99.18	6.19	7282.67
10	9.78	0.00	0.00	0.00	12.71	7279.74
11	8.71	0.00	0.00	0.00	7.78	7280.67
12	8.71	0.00	0.00	0.00	6.87	7282.51
13	8.71	0.00	0.00	0.00	8.31	7282.91
14	15.69	0.00	0.00	0.00	8.34	7290.26
15	42.36	0.00	0.00	0.00	8.61	7324.01
16	47.81	0.00	0.00	0.00	14.22	7357.60
17	21.69	0.00	0.00	0.00	8.75	7370.54
18	18.69	0.00	0.00	0.00	13.46	7375.77
19	17.02	0.00	0.00	0.00	9.60	7383.19
20	9.51	0.00	0.00	0.00	9.65	7383.05
21	8.71	0.00	0.00	0.00	9.95	7381.81
22	8.71	0.00	0.00	0.00	9.74	7380.78
23	8.71	0.00	0.00	0.00	7.03	7382.46
24	8.71	0.00	0.00	0.00	8.08	7383.09
25	27.93	0.00	0.00	0.00	8.86	7402.16
26	53.16	0.00	0.00	0.00	10.43	7444.89
27	34.49	0.00	0.00	0.00	9.51	7469.87
28	11.41	0.00	0.00	0.00	9.56	7471.72
29	17.27	0.00	0.00	0.00	9.85	7479.14
30	16.54	0.00	0.00	0.00	14.58	7481.10
	584.10	0.00	0.00	892.62	297.33	

OffsetAccount-Consumable Upstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						2316.40
1	0.00	0.00	0.00	0.00	2.62	2313.78
2	0.00	0.00	0.00	0.00	2.62	2311.16
3	0.00	0.00	0.00	0.00	3.13	2308.03
4	0.00	0.00	0.00	0.00	4.00	2304.03
5	0.00	0.00	0.00	0.00	2.33	2301.70
6	0.00	0.00	0.00	0.00	3.51	2298.19
7	0.00	0.00	0.00	0.00	3.52	2294.67
8	0.00	0.00	0.00	0.00	3.61	2291.06
9	0.00	0.00	0.00	0.00	1.92	2289.14
10	0.00	0.00	0.00	0.00	3.99	2285.15
11	0.00	0.00	0.00	0.00	2.44	2282.71
12	0.00	0.00	0.00	0.00	2.15	2280.56
13	0.00	0.00	0.00	0.00	2.60	2277.96
14	0.00	0.00	0.00	0.00	2.61	2275.35
15	0.00	0.00	0.00	0.00	2.69	2272.66
16	0.00	0.00	0.00	0.00	4.41	2268.25
17	0.00	0.00	0.00	0.00	2.70	2265.55
18	0.00	0.00	0.00	0.00	4.14	2261.41
19	0.00	0.00	0.00	0.00	2.94	2258.47
20	0.00	0.00	0.00	0.00	2.95	2255.52
21	0.00	0.00	0.00	0.00	3.04	2252.48
22	0.00	0.00	0.00	0.00	2.97	2249.51
23	0.00	0.00	0.00	0.00	2.14	2247.37
24	0.00	0.00	0.00	0.00	2.46	2244.91
25	0.00	0.00	0.00	0.00	2.69	2242.22
26	0.00	0.00	0.00	0.00	3.16	2239.06
27	0.00	0.00	0.00	0.00	2.86	2236.20
28	0.00	0.00	0.00	0.00	2.86	2233.34
29	0.00	0.00	0.00	0.00	2.94	2230.40
30	0.00	0.00	0.00	0.00	4.35	2226.05
	0.00	0.00	0.00	0.00	90.35	

OffsetAccount-Consumable Kansas

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-Consumable Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						8025.48
1	8.71	0.00	0.00	99.18	9.07	7925.94
2	17.73	0.00	0.00	99.18	8.96	7835.53
3	39.10	0.00	0.00	99.18	10.60	7764.85
4	30.08	0.00	0.00	99.18	13.47	7682.28
5	12.46	0.00	0.00	99.18	7.78	7587.78
6	23.76	0.00	0.00	99.18	11.57	7500.79
7	20.43	0.00	0.00	99.18	11.48	7410.56
8	11.50	0.00	0.00	99.18	11.65	7311.23
9	16.01	0.00	0.00	99.18	6.14	7221.92
10	9.78	0.00	0.00	0.00	12.60	7219.10
11	8.71	0.00	0.00	0.00	7.72	7220.09
12	8.71	0.00	0.00	0.00	6.81	7221.99
13	8.71	0.00	0.00	0.00	8.24	7222.46
14	15.69	0.00	0.00	0.00	8.27	7229.88
15	42.36	0.00	0.00	0.00	8.54	7263.70
16	47.81	0.00	0.00	0.00	14.10	7297.41
17	21.69	0.00	0.00	0.00	8.68	7310.42
18	18.69	0.00	0.00	0.00	13.35	7315.76
19	17.02	0.00	0.00	0.00	9.52	7323.26
20	9.51	0.00	0.00	0.00	9.57	7323.20
21	8.71	0.00	0.00	0.00	9.87	7322.04
22	8.71	0.00	0.00	0.00	9.66	7321.09
23	8.71	0.00	0.00	0.00	6.97	7322.83
24	8.71	0.00	0.00	0.00	8.01	7323.53
25	27.93	0.00	0.00	0.00	8.79	7342.67
26	53.16	0.00	0.00	0.00	10.35	7385.48
27	34.49	0.00	0.00	0.00	9.43	7410.54
28	11.41	0.00	0.00	0.00	9.48	7412.47
29	17.27	0.00	0.00	0.00	9.77	7419.97
30	16.54	0.00	0.00	0.00	14.46	7422.05
	584.10	0.00	0.00	892.62	294.91	

OffsetAccount-Consumable Downstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						5709.08
1	8.71	0.00	0.00	99.18	6.45	5612.16
2	17.73	0.00	0.00	99.18	6.34	5524.37
3	39.10	0.00	0.00	99.18	7.47	5456.82
4	30.08	0.00	0.00	99.18	9.47	5378.25
5	12.46	0.00	0.00	99.18	5.45	5286.08
6	23.76	0.00	0.00	99.18	8.06	5202.60
7	20.43	0.00	0.00	99.18	7.96	5115.89
8	11.50	0.00	0.00	99.18	8.04	5020.17
9	16.01	0.00	0.00	99.18	4.22	4932.78
10	9.78	0.00	0.00	0.00	8.61	4933.95
11	8.71	0.00	0.00	0.00	5.28	4937.38
12	8.71	0.00	0.00	0.00	4.66	4941.43
13	8.71	0.00	0.00	0.00	5.64	4944.50
14	15.69	0.00	0.00	0.00	5.66	4954.53
15	42.36	0.00	0.00	0.00	5.85	4991.04
16	47.81	0.00	0.00	0.00	9.69	5029.16
17	21.69	0.00	0.00	0.00	5.98	5044.87
18	18.69	0.00	0.00	0.00	9.21	5054.35
19	17.02	0.00	0.00	0.00	6.58	5064.79
20	9.51	0.00	0.00	0.00	6.62	5067.68
21	8.71	0.00	0.00	0.00	6.83	5069.56
22	8.71	0.00	0.00	0.00	6.69	5071.58
23	8.71	0.00	0.00	0.00	4.83	5075.46
24	8.71	0.00	0.00	0.00	5.55	5078.62
25	27.93	0.00	0.00	0.00	6.10	5100.45
26	53.16	0.00	0.00	0.00	7.19	5146.42
27	34.49	0.00	0.00	0.00	6.57	5174.34
28	11.41	0.00	0.00	0.00	6.62	5179.13
29	17.27	0.00	0.00	0.00	6.83	5189.57
30	16.54	0.00	0.00	0.00	10.11	5196.00
	584.10	0.00	0.00	892.62	204.56	

OffsetAccount-Consumable Kansas Charge

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-ReturnFlow

Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						61.47
1	0.00	0.00	0.00	0.00	0.07	61.40
2	0.00	0.00	0.00	0.00	0.07	61.33
3	0.00	0.00	0.00	0.00	0.08	61.25
4	0.00	0.00	0.00	0.00	0.11	61.14
5	0.00	0.00	0.00	0.00	0.06	61.08
6	0.00	0.00	0.00	0.00	0.09	60.99
7	0.00	0.00	0.00	0.00	0.09	60.90
8	0.00	0.00	0.00	0.00	0.10	60.80
9	0.00	0.00	0.00	0.00	0.05	60.75
10	0.00	0.00	0.00	0.00	0.11	60.64
11	0.00	0.00	0.00	0.00	0.06	60.58
12	0.00	0.00	0.00	0.00	0.06	60.52
13	0.00	0.00	0.00	0.00	0.07	60.45
14	0.00	0.00	0.00	0.00	0.07	60.38
15	0.00	0.00	0.00	0.00	0.07	60.31
16	0.00	0.00	0.00	0.00	0.12	60.19
17	0.00	0.00	0.00	0.00	0.07	60.12
18	0.00	0.00	0.00	0.00	0.11	60.01
19	0.00	0.00	0.00	0.00	0.08	59.93
20	0.00	0.00	0.00	0.00	0.08	59.85
21	0.00	0.00	0.00	0.00	0.08	59.77
22	0.00	0.00	0.00	0.00	0.08	59.69
23	0.00	0.00	0.00	0.00	0.06	59.63
24	0.00	0.00	0.00	0.00	0.07	59.56
25	0.00	0.00	0.00	0.00	0.07	59.49
26	0.00	0.00	0.00	0.00	0.08	59.41
27	0.00	0.00	0.00	0.00	0.08	59.33
28	0.00	0.00	0.00	0.00	0.08	59.25
29	0.00	0.00	0.00	0.00	0.08	59.17
30	0.00	0.00	0.00	0.00	0.12	59.05
	0.00	0.00	0.00	0.00	2.42	

OffsetAccount-ReturnFlow

RF Transit Loss

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						61.47
1	0.00	0.00	0.00	0.00	0.07	61.40
2	0.00	0.00	0.00	0.00	0.07	61.33
3	0.00	0.00	0.00	0.00	0.08	61.25
4	0.00	0.00	0.00	0.00	0.11	61.14
5	0.00	0.00	0.00	0.00	0.06	61.08
6	0.00	0.00	0.00	0.00	0.09	60.99
7	0.00	0.00	0.00	0.00	0.09	60.90
8	0.00	0.00	0.00	0.00	0.10	60.80
9	0.00	0.00	0.00	0.00	0.05	60.75
10	0.00	0.00	0.00	0.00	0.11	60.64
11	0.00	0.00	0.00	0.00	0.06	60.58
12	0.00	0.00	0.00	0.00	0.06	60.52
13	0.00	0.00	0.00	0.00	0.07	60.45
14	0.00	0.00	0.00	0.00	0.07	60.38
15	0.00	0.00	0.00	0.00	0.07	60.31
16	0.00	0.00	0.00	0.00	0.12	60.19
17	0.00	0.00	0.00	0.00	0.07	60.12
18	0.00	0.00	0.00	0.00	0.11	60.01
19	0.00	0.00	0.00	0.00	0.08	59.93
20	0.00	0.00	0.00	0.00	0.08	59.85
21	0.00	0.00	0.00	0.00	0.08	59.77
22	0.00	0.00	0.00	0.00	0.08	59.69
23	0.00	0.00	0.00	0.00	0.06	59.63
24	0.00	0.00	0.00	0.00	0.07	59.56
25	0.00	0.00	0.00	0.00	0.07	59.49
26	0.00	0.00	0.00	0.00	0.08	59.41
27	0.00	0.00	0.00	0.00	0.08	59.33
28	0.00	0.00	0.00	0.00	0.08	59.25
29	0.00	0.00	0.00	0.00	0.08	59.17
30	0.00	0.00	0.00	0.00	0.12	59.05
	0.00	0.00	0.00	0.00	2.42	

OffsetAccount-ReturnFlow

Return Flow

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

Summary of Key Information for Section II - Offset Delivery June-September 2019

1/7/2020

Date	Flow Data: Mean Daily Stateline (SL) Flow	Flow Data: Mean Daily Stateline (SL) Flow	Flow Data: SL flow less antecedent flow	Release Data: Offset Consumable Release	Release Data: Offset Non-Consumable Release	Release Data: Section 2 Release	Release Data: Transit Loss Release	Muskingum routing: Total Release	Muskingum routing: Total Release Times 1.05	Muskingum routing: Routed release	Muskingum routing: Routed release, lagged one day
			199.4								
	CFS	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF
5/31/2019	100	197	0	0	0	0	0	0	0	0	0
6/1/2019	91	180	0	0	0	0	0	0	0	0	0
6/2/2019	94	186	0	0	0	0	0	0	0	0	0
6/3/2019	99	196	0	0	0	0	0	0	0	0	0
6/4/2019	99	197	0	0	0	0	0	0	0	0	0
6/5/2019	116	230	30	0	0	0	0	0	0	0	0
6/6/2019	107	212	13	0	0	0	0	0	0	0	0
6/7/2019	93	184	0	0	0	0	0	0	0	0	0
6/8/2019	88	175	0	0	0	0	0	0	0	0	0
6/9/2019	82	163	0	0	0	0	0	0	0	0	0
6/10/2019	87	172	0	0	0	0	0	0	0	0	0
6/11/2019	91	181	0	0	0	0	0	0	0	0	0
6/12/2019	87	173	0	0	0	0	0	0	0	0	0
6/13/2019	79	157	0	0	0	0	0	0	0	0	0
6/14/2019	79	156	0	0	0	0	0	0	0	0	0
6/15/2019	121	241	41	0	0	0	0	0	0	0	0
6/16/2019	137	272	73	0	0	0	0	0	0	0	0
6/17/2019	141	279	80	0	0	0	0	0	0	0	0
6/18/2019	137	273	73	0	0	0	0	0	0	0	0
6/19/2019	181	359	160	0	0	509	54	509	535	25	0
6/20/2019	150	298	98	0	0	873	248	873	916	238	25
6/21/2019	203	402	203	0	0	873	248	873	916	496	238
6/22/2019	284	562	363	0	0	873	248	873	916	656	496
6/23/2019	404	802	603	0	0	873	248	873	916	755	656
6/24/2019	433	858	659	0	0	873	248	873	916	817	755
6/25/2019	431	854	655	0	0	873	248	873	916	855	817
6/26/2019	438	868	669	0	0	873	248	873	916	878	855
6/27/2019	443	879	680	0	0	873	248	873	916	893	878
6/28/2019	453	899	700	0	0	1000	288	1000	1050	908	893
6/29/2019	453	899	700	0	0	1091	317	1091	1145	967	908
6/30/2019	517	1026	826	0	0	1091	317	1091	1145	1035	967
7/1/2019	573	1136	937	0	0	1091	317	1091	1145	1077	1035
7/2/2019	622	1234	1034	0	0	1091	0	1091	1145	1103	1077
7/3/2019	585	1160	961	0	0	1091	0	1091	1145	1119	1103
7/4/2019	583	1156	957	0	0	1091	0	1091	1145	1129	1119
7/5/2019	592	1174	974	0	0	1091	0	1091	1145	1135	1129
7/6/2019	588	1167	968	0	0	1091	248	1091	1145	1139	1135
7/7/2019	596	1181	982	0	0	1091	248	1091	1145	1142	1139
7/8/2019	617	1223	1024	0	0	1091	248	1091	1145	1143	1142
7/9/2019	615	1220	1020	0	198	893	0	1091	1145	1144	1143
7/10/2019	608	1207	1007	0	198	893	0	1091	1145	1145	1144
7/11/2019	597	1184	985	0	198	893	0	1091	1145	1145	1145
7/12/2019	584	1158	958	95	103	893	0	1091	1145	1145	1145
7/13/2019	565	1120	920	198	0	893	0	1091	1145	1145	1145
7/14/2019	561	1113	914	198	0	893	0	1091	1145	1145	1145
7/15/2019	569	1129	929	198	0	893	0	1091	1145	1145	1145
7/16/2019	566	1123	923	198	0	893	0	1091	1145	1145	1145
7/17/2019	561	1112	913	198	0	893	0	1091	1145	1145	1145
7/18/2019	559	1109	909	198	0	893	0	1091	1145	1145	1145
7/19/2019	535	1061	862	198	0	893	0	1091	1145	1145	1145
7/20/2019	531	1054	855	198	0	893	0	1091	1145	1145	1145
7/21/2019	560	1110	911	198	0	893	0	1091	1145	1145	1145
7/22/2019	601	1191	992	198	0	893	0	1091	1145	1145	1145
7/23/2019	580	1150	950	198	0	893	0	1091	1145	1145	1145
7/24/2019	572	1134	934	198	0	893	0	1091	1145	1145	1145
7/25/2019	613	1216	1016	198	0	743	0	941	988	1138	1145
7/26/2019	603	1196	997	198	0	645	0	843	885	1076	1138
7/27/2019	539	1068	869	198	0	645	0	843	885	1003	1076
7/28/2019	512	1016	816	198	0	645	0	843	885	958	1003
7/29/2019	489	969	770	198	0	645	0	843	885	930	958
7/30/2019	468	928	729	198	0	645	0	843	885	913	930
7/31/2019	476	944	745	198	0	645	0	843	885	902	913
8/1/2019	486	964	765	198	0	645	0	843	885	896	902
8/2/2019	488	968	769	198	0	723	0	921	967	896	896
8/3/2019	503	998	799	198	0	853	0	1051	1104	929	896
8/4/2019	545	1082	883	198	0	853	0	1051	1104	996	929
8/5/2019	566	1123	923	198	0	853	0	1051	1104	1037	996
8/6/2019	584	1159	960	198	0	853	0	1051	1104	1062	1037
8/7/2019	595	1180	980	198	0	853	0	1051	1104	1078	1062
8/8/2019	633	1256	1057	198	0	853	0	1051	1104	1088	1078
8/9/2019	643	1274	1075	136	0	816	0	952	1000	1089	1088
8/10/2019	657	1302	1103	119	0	774	0	893	937	1052	1089
8/11/2019	617	1223	1023	119	0	774	0	893	937	1008	1052
8/12/2019	620	1229	1030	99	0	793	0	893	937	981	1008
8/13/2019	591	1172	973	119	0	774	0	893	937	964	981
8/14/2019	668	1326	1127	119	0	674	0	793	833	949	964
8/15/2019	707	1403	1203	119	0	615	0	734	771	902	949
8/16/2019	681	1350	1151	119	0	615	0	734	771	852	902
8/17/2019	594	1179	980	119	0	615	0	734	771	821	852
8/18/2019	544	1080	880	119	0	615	0	734	771	802	821
8/19/2019	514	1020	821	119	0	615	0	734	771	790	802
8/20/2019	498	988	789	119	0	615	0	734	771	783	790
8/21/2019	469	930	730	119	0	615	0	734	771	778	783
8/22/2019	456	904	704	119	0	615	0	734	771	775	778
8/23/2019	429	850	651	119	0	615	0	734	771	773	775
8/24/2019	452	896	696	119	0	615	0	734	771	772	773
8/25/2019	448	888	689	119	0	615	0	734	771	772	772
8/26/2019	422	837	638	107	0	545	0	653	686	767	772
8/27/2019	404	801	602	99	0	496	0	595	625	733	767
8/28/2019	377	748	549	99	0	496	0	595	625	692	733
8/29/2019	351	697	498	99	0	496	0	595	625	666	692
8/30/2019	344	683	484	99	0	496	0	595	625	651	666
8/31/2019	350	695	495	99	0	496	0	595	625	641	651
9/1/2019	354	703	503	99	0	496	0	595	625	635	641
9/2/2019	347	688	489	99	0	496	0	595	625	631	635
9/3/2019	328	652	452	99	0	438	0	537	564	626	631
9/4/2019	314	623	424	99	0	397	0	496	521	600	626
9/5/2019	302	599	400	99	0	397	0	496	521	570	600
9/6/2019	293	581	382	99	0	397	0	496	521	551	570
9/7/2019	287	569	369	99	0	397	0	496	521	540	551
9/8/2019	285	566	366	99	0	397	0	496	521	532	540
9/9/2019	289	574	374	99	0	397	0	496	521	528	532
9/10/2019	315	624	425	0	0	0	0	0	0	500	528
9/11/2019	298	591	391	0	0	0	0	0	0	310	500
9/12/2019	230	456	256	0	0	0	0	0	0	192	310
9/13/2019	201	399	199	0	0	0	0	0	0	119	192
9/14/2019	184	365	166	0	0	0	0	0	0	73	119
9/15/2019	168	333	134	0	0	0	0	0	0	0	70
9/16/2019	0	0	0	0	0	0	0	0	0	0	0
9/17/2019	0	0	0	0	0	0	0	0	0	0	0
9/18/2019	0	0	0	0	0	0	0	0	0	0	0
			Totals	8967	698	62980	4022	72645	76278	76158	76155

Antecedent Flow Calculations

Initial Average=	238.86		
YES	7		
YES	8		
YES	9		
YES	10		
YES	6		
NO	5		
NO	3		
NO	4		
NO	1		
NO	2		
Adjusted Average	167.97	839.87	
YES		5.00	
YES			
YES			
YES			
NO			
NO			
NO			
NO			
NO			
Adjusted Average	170.89	683.58	
Final Baseflow	86.16	4.00	
Computations for < 6 days			
Enter date of 6th day	6/15/2019	240.58	
Enter date of 5th day	6/16/2019	272.19	
Enter date of 4th day		0.00	
Average with 6 days	199.39		

Paragraph 3.b.iii check	
Average for prior days 11-20	189.42
Is value twice the computed Antecedent Flow Value?	No
Muskingum Day 6 =	#N/A
Para. 3.b.iii AF Value	#N/A

Delivery Calculations

Stateline Delivery Hydrograph	Equivalent Stateline Flow Hydrograph
AF	AF
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
0	0
0	0
25	25
203	238
363	496
603	656
659	755
655	817
669	855
680	878
700	893
700	899
826	967
937	1035
1034	1077
961	1103
957	1119
974	1129
968	1135
982	1139
1024	1142
1020	1143
1007	1144
985	1145
958	1145
920	1120
914	1113
929	1129
923	1123
913	1112
909	1109
862	1061
855	1054
911	1110
992	1145
950	1145
934	1134
1016	1145
997	1138
869	1068
816	1003
770	958
729	928
745	913
765	902
769	896
799	896
883	929
923	996
960	1037
980	1062
1057	1078
1075	1088
1089	1089
1023	1052
1008	1008
973	981
964	964
949	949
902	902
852	852
821	821
802	802
789	790
730	783
704	778
651	775
696	773
689	772
638	772
602	767
549	733
498	692
484	666
495	651
503	641
489	635
452	631
424	623
400	599
382	570
369	551
366	540
374	532
425	528
391	500
256	310
199	192
166	119
134	70
0	0
0	0
0	0
65173	75743

Total Offset =	9666
Transit Loss on Consumable =	922
Granada Transit Loss Credit Percentage =	100.0%
Transit Loss Model Input JMR to Lamar =	63
Transit Loss Model Input Lamar to Granada =	320
Transit Loss Model Input Granada to Stateline =	309
Total Transit Loss Model Input =	692

Muskingum Derivation of factors

K (hr)=	60	cO=	0.048
x =	0.15	c1 =	0.333
t (hr) =	24	c2 =	0.619
		c0+c1+c2 =	1.00

K t ratio check

2Kx <	t	< 2K(1-x)
18	24	102

Offset Delivery Efficiency =	89.71%
Offset Net Delivery =	8671
Offset Consumable Delivery =	8045
ESF Delivery Efficiency =	104.3%
Section II Delivery =	62980
Section II Delivery Transit Loss =	0
Evaporation Delivery Credit	0

Data Input Sheet for Section II/Offset Account Delivery June-July 2017

Type of Release	C	Start Time	10:00 AM	Rate	444.00	Did any other release occur within			
Release Start Date	6/19/2019	Offset Release Start Date		7/9/2019		ten days prior to this release?	No		
Release End Date	9/9/2019	Offset Release End Date		9/9/2019		If yes, enter Antecedent Flow from Prior Release >			
Ending Hour	11:59 PM	Enter Cumulative Evap Credit AF		0.00		If yes, enter Granada Antecedent Flow from Prior Release >			

	Gage Data					Release Amounts					
	Stateline Flow Data		Intermediate Gage Data			Offset Account		Offset Account Release	Kansas Section II	Transit Loss	Total
Date	Coolidge (cfs)	Frontier (cfs)	Below JMR (cfs)	Lamar (cfs)	Granada (cfs)	Consumable (af)	All Other (af)		(af)	(af)	(af)
5/31/2019	78.0	21.5	506.0	12.2	26.1			0.0			0.0
6/1/2019	71.7	19.1	505.8	12.7	25.5			0.0			0.0
6/2/2019	73.3	20.2	505.9	12.8	25.3			0.0			0.0
6/3/2019	77.8	21.0	494.0	12.0	24.5			0.0			0.0
6/4/2019	82.4	17.0	486.5	12.4	26.5			0.0			0.0
6/5/2019	97.2	18.6	487.7	10.7	24.5			0.0			0.0
6/6/2019	89.2	17.9	503.1	11.1	22.2			0.0			0.0
6/7/2019	75.9	16.8	518.1	10.8	23.5			0.0			0.0
6/8/2019	72.4	15.6	518.6	11.4	17.7			0.0			0.0
6/9/2019	67.6	14.5	519.5	12.5	13.7			0.0			0.0
6/10/2019	72.1	14.8	519.7	12.3	13.2			0.0			0.0
6/11/2019	73.0	18.0	519.2	12.7	13.8			0.0			0.0
6/12/2019	59.7	27.7	517.1	12.6	13.7			0.0			0.0
6/13/2019	52.5	26.7	664.9	15.2	13.6			0.0			0.0
6/14/2019	52.7	26.1	691.4	17.0	16.0			0.0			0.0
6/15/2019	86.9	34.4	624.7	34.3	26.4			0.0			0.0
6/16/2019	102.3	35.0	625.4	48.5	53.3			0.0			0.0
6/17/2019	105.3	35.3	609.4	44.2	71.2			0.0			0.0
6/18/2019	102.3	35.1	586.9	42.5	79.2			0.0			0.0
6/19/2019	145.7	35.3	892.4	87.1	80.6			0.0	509.10	54.4	563.5
6/20/2019	114.9	35.2	1139.2	378.7	154.0			0.0	872.74	247.9	1120.7
6/21/2019	167.8	35.0	1190.5	466.3	303.7			0.0	872.74	247.9	1120.7
6/22/2019	248.7	34.9	1193.3	524.7	389.2			0.0	872.74	247.9	1120.7
6/23/2019	372.5	31.8	1198.0	561.7	453.0			0.0	872.74	247.9	1120.7
6/24/2019	404.8	27.8	1199.1	570.8	472.8			0.0	872.74	247.9	1120.7
6/25/2019	402.3	28.5	1148.0	572.0	475.0			0.0	872.74	247.9	1120.7
6/26/2019	407.5	30.1	1102.6	563.3	465.1			0.0	872.74	247.9	1120.7
6/27/2019	408.1	35.1	1149.9	568.4	472.1			0.0	872.74	247.9	1120.7
6/28/2019	419.0	34.4	1253.0	571.7	467.9			0.0	1000.02	288.4	1288.5
6/29/2019	418.7	34.7	1332.2	721.9	530.5			0.0	1090.93	317.4	1408.3
6/30/2019	483.8	33.3	1336.7	738.7	598.8			0.0	1090.93	317.4	1408.3
7/1/2019	539.1	33.7	1396.0	740.1	628.0			0.0	1090.93	317.4	1408.3
7/2/2019	587.8	34.1	1439.3	660.0	605.7			0.0	1090.93	0.0	1090.9
7/3/2019	551.4	33.4	1432.9	655.0	581.7			0.0	1090.93	0.0	1090.9
7/4/2019	549.7	33.2	1431.6	645.3	581.2			0.0	1090.93	0.0	1090.9
7/5/2019	558.9	32.9	1412.2	640.9	582.6			0.0	1090.93	0.0	1090.9
7/6/2019	559.7	28.8	1432.2	640.5	579.0			0.0	1090.93	247.9	1338.9
7/7/2019	573.8	21.8	1416.5	658.2	597.0			0.0	1090.93	247.9	1338.9
7/8/2019	583.5	33.0	1408.8	644.0	589.7			0.0	1090.93	247.9	1338.9
7/9/2019	582.3	32.7	1393.6	633.8	584.6		198.35	198.4	892.58	0.0	1090.9
7/10/2019	575.8	32.5	1385.1	628.0	573.9		198.35	198.4	892.58		1090.9
7/11/2019	564.6	32.4	1377.9	631.7	580.9		198.35	198.4	892.58		1090.9
7/12/2019	551.3	32.3	1373.2	636.1	576.5	95.31	103.04	198.4	892.58		1090.9
7/13/2019	532.2	32.4	1369.0	632.9	580.9	198.35		198.4	892.58		1090.9
7/14/2019	528.7	32.4	1359.0	624.8	571.6	198.35		198.4	892.58		1090.9
7/15/2019	536.4	32.6	1219.0	611.6	571.5	198.35		198.4	892.58		1090.9
7/16/2019	533.6	32.3	1210.0	620.2	570.8	198.35		198.4	892.58		1090.9
7/17/2019	528.1	32.8	1275.5	635.4	594.7	198.35		198.4	892.58		1090.9
7/18/2019	526.0	33.0	1248.3	604.0	586.1	198.35		198.4	892.58		1090.9
7/19/2019	501.7	33.2	1305.1	608.3	563.5	198.35		198.4	892.58		1090.9
7/20/2019	498.4	33.1	1325.4	614.5	570.8	198.35		198.4	892.58		1090.9
7/21/2019	526.5	33.1	1325.8	633.4	622.4	198.35		198.4	892.58		1090.9
7/22/2019	567.7	32.8	1300.9	618.9	602.3	198.35		198.4	892.58		1090.9
7/23/2019	547.0	32.6	1320.0	599.7	576.7	198.35		198.4	892.58		1090.9
7/24/2019	538.7	32.9	1296.6	660.5	585.3	198.35		198.4	892.58		1090.9
7/25/2019	580.3	32.7	1189.4	602.2	585.0	198.35		198.4	742.78		941.1
7/26/2019	570.6	32.5	1118.0	502.7	520.7	198.35		198.4	644.64		843.0
7/27/2019	506.1	32.6	1117.5	482.1	476.5	198.35		198.4	644.64		843.0

Data Input Sheet for Section II/Offset Account Delivery June-July 2017

	Gage Data					Release Amounts					
	Stateline Flow Data		Intermediate Gage Data			Offset Account		Offset Account Release	Kansas Section II	Transit Loss	Total
Date	Coolidge (cfs)	Frontier (cfs)	Below JMR (cfs)	Lamar (cfs)	Granada (cfs)	Consumable (af)	All Other (af)		(af)	(af)	(af)
7/28/2019	479.4	32.7	1112.7	468.4	454.3	198.35		198.4	644.64		843.0
7/29/2019	456.0	32.6	1114.8	467.2	442.2	198.35		198.4	644.64		843.0
7/30/2019	435.3	32.7	1116.7	482.4	444.2	198.35		198.4	644.64		843.0
7/31/2019	443.6	32.5	1130.1	475.5	441.6	198.35		198.4	644.64		843.0
8/1/2019	453.4	32.7	1144.5	469.5	441.3	198.35		198.4	644.64		843.0
8/2/2019	455.6	32.7	1151.3	479.6	434.1	198.35		198.4	722.74		921.1
8/3/2019	471.1	32.1	1122.4	614.2	477.5	198.35		198.4	852.90		1051.3
8/4/2019	513.4	32.1	1122.0	627.7	530.8	198.35		198.4	852.90		1051.3
8/5/2019	533.0	33.1	1104.8	616.9	540.2	198.35		198.4	852.90		1051.3
8/6/2019	551.0	33.3	1110.8	617.6	540.2	198.35		198.4	852.90		1051.3
8/7/2019	562.5	32.3	1109.5	634.3	559.8	198.35		198.4	852.90		1051.3
8/8/2019	600.3	32.9	1111.3	638.4	585.9	198.35		198.4	852.90		1051.3
8/9/2019	609.4	33.2	1109.4	635.7	613.2	136.37		136.4	815.71		952.1
8/10/2019	623.8	32.9	1107.9	536.6	559.7	119.01		119.0	773.57		892.6
8/11/2019	584.2	32.4	1108.0	545.7	551.5	119.01		119.0	773.57		892.6
8/12/2019	587.0	32.6	1134.3	532.8	530.4	99.18		99.2	793.40		892.6
8/13/2019	558.0	32.9	1150.1	543.0	535.6	119.01		119.0	773.57		892.6
8/14/2019	636.4	32.0	1023.4	521.6	571.0	119.01		119.0	674.40		793.4
8/15/2019	675.0	32.2	925.9	460.4	536.2	119.01		119.0	614.89		733.9
8/16/2019	648.6	32.2	900.4	423.5	494.5	119.01		119.0	614.89		733.9
8/17/2019	562.5	31.9	873.9	388.9	466.4	119.01		119.0	614.89		733.9
8/18/2019	512.3	32.1	876.0	369.7	433.0	119.01		119.0	614.89		733.9
8/19/2019	482.6	31.8	858.6	362.7	419.3	119.01		119.0	614.89		733.9
8/20/2019	466.1	32.0	817.8	366.6	413.6	119.01		119.0	614.89		733.9
8/21/2019	437.3	31.4	816.8	373.3	406.8	119.01		119.0	614.89		733.9
8/22/2019	423.7	31.8	792.8	339.3	394.0	119.01		119.0	614.89		733.9
8/23/2019	397.1	31.6	783.9	340.1	391.6	119.01		119.0	614.89		733.9
8/24/2019	420.0	31.6	780.5	332.1	441.3	119.01		119.0	614.89		733.9
8/25/2019	416.2	31.5	776.5	324.9	397.9	119.01		119.0	614.89		733.9
8/26/2019	390.5	31.4	752.9	312.4	383.8	107.44		107.4	545.47		652.9
8/27/2019	372.4	31.4	703.0	291.4	363.0	99.18		99.2	495.88		595.1
8/28/2019	346.0	31.3	671.6	286.1	350.5	99.18		99.2	495.88		595.1
8/29/2019	320.0	31.4	669.8	289.6	349.0	99.18		99.2	495.88		595.1
8/30/2019	313.2	31.1	675.5	294.6	353.2	99.18		99.2	495.88		595.1
8/31/2019	319.2	31.1	692.3	294.6	354.2	99.18		99.2	495.88		595.1
9/1/2019	322.9	31.4	683.6	290.6	351.4	99.18		99.2	495.88		595.1
9/2/2019	315.6	31.4	665.6	273.5	341.9	99.18		99.2	495.88		595.1
9/3/2019	297.3	31.2	658.9	269.3	316.6	99.18		99.2	438.03		537.2
9/4/2019	283.3	30.9	631.5	265.9	301.4	99.18		99.2	396.70		495.9
9/5/2019	270.8	31.2	612.1	270.4	286.8	99.18		99.2	396.70		495.9
9/6/2019	262.3	30.9	618.7	263.6	273.2	99.18		99.2	396.70		495.9
9/7/2019	255.8	31.0	630.2	263.2	268.4	99.18		99.2	396.70		495.9
9/8/2019	254.5	30.7	623.7	266.2	275.1	99.18		99.2	396.70		495.9
9/9/2019	258.8	30.5	633.5	332.0	306.0	99.18		99.2	396.70		495.9
9/10/2019	283.9	30.9	410.1	206.7	310.4	0.00		0.0	0.0		0.0
9/11/2019	266.7	31.2	384.7	91.8	207.7			0.0			0.0
9/12/2019	201.1	28.6	367.9	77.8	148.6			0.0			0.0
9/13/2019	176.1	25.0	366.1	62.0	129.8			0.0			0.0
9/14/2019	160.9	23.2	341.4	54.1	114.2			0.0			0.0
9/15/2019	146.6	21.4	321.7	34.8	101.2			0.0			0.0
9/16/2019								0.0			0.0
9/17/2019								0.0			0.0
9/18/2019								0.0			0.0
9/19/2019								0.0			0.0
9/20/2019								0.0			0.0
						8967.4	698.1		62979.89	4022.2	

COLORADO
Division of Water Resources
Department of Natural Resources
Water Division 2 – Main Office

October 30, 2019

David Barfield
Kansas Chief Engineer
Kansas Board of Agriculture
901 S. Kansas Avenue, 2nd Floor
Topeka, KS 66612-1283

Subject: Notice of Release of Offset Account Water from John Martin Reservoir

Dear Mr. Barfield:

The purpose of this letter is to provide accounting for a release of water from the Offset Account in John Martin Reservoir for delivery to the Stateline as called for by the Kansas Chief Engineer in accordance with the Resolution Concerning an Offset Account in John Martin Reservoir for Colorado Pumping As Amended March 30, 1998 ("Resolution"), the Stipulation Re Offset Account in John Martin Reservoir dated March 17, 1997 ("Stipulation") and the Agreement Concerning the Offset Account in John Martin Reservoir for Colorado Pumping, dated September 2005.

Staff for the Kansas Chief Engineer requested an initial release of water from the Offset Account beginning on July 9, 2019 at the rate of 100 cfs (This was part of a combined release with Section II water being released at the same time at a rate of 450 cfs). The overall release began initially on June 19, 2019 as a release of Kansas Section II water only. This stepped release was executed in the following manner: June 19 – June 27, 2019: 440 cfs: June 28 – July 7, 2019: 550 cfs, July 8 – July 25, 2019: 450 cfs, July 26 – August 2, 2019: 325 cfs, August 2 – August 9, 2019: 430 cfs, August 9 – August 14, 2019: 390 cfs, August 14 – August 26, 2019: 310 cfs, August 26 – September 3, 2019: 250 cfs and September 3 – September 9, 2019: 200 cfs. Following the initiation of the combined release the rate was reduced as noted above on July 9, 2019. The Offset Account portion of the release began at approximately 00:00 hours, July 9, 2019 and ended at approximately 24:00 hours on September 9, 2019. The release rate decreased from 100 cfs to 60 cfs on August 9, 2019, then again to 50 cfs on August 26, 2019 or the remainder of the release on August 27, 2019. Transit losses on the release of water from the Offset Account were determined using the procedure described in the Agreement Concerning the Offset Account in John Martin Reservoir for Colorado Pumping, dated September 2005.

Enclosure 1 shows the quantities of water that were in the various subaccounts of the Offset Account prior to the initiation of the release, during the release, and following the release of all water from the account.

Enclosure 2 also shows the credit at the Stateline for the delivery of the fully consumable water released from the Offset Account. The credit was determined in accordance with the

Agreement Concerning the Offset Account in John Martin Reservoir for Colorado Pumping and was 8,063 acre-feet of consumable water at the stateline.

Please contact me if you have any questions or require additional information.

Sincerely,

Bill W. Tyner

Bill W. Tyner, P.E.
Division Engineer, Division 2
Colorado Division of Water Resources

2 Enclosures

Ec: Kevin Salter
Dale Book
Dan Steuer
Randy Hendrix
Don Higbee
Bill Tyner
John Van Oort
Bethany Arnold

Offset Account — July 2019

OffsetAccount-Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						13965.62
1	54.00	0.00	0.00	0.00	3.71	14015.91
2	55.51	0.00	0.00	0.00	11.98	14059.44
3	75.94	0.00	0.00	0.00	19.59	14115.79
4	649.33	0.00	0.00	0.00	19.67	14745.45
5	646.26	0.00	0.00	0.00	12.57	15379.14
6	82.68	0.00	0.00	0.00	13.02	15448.80
7	55.65	0.00	0.00	0.00	13.07	15491.38
8	56.35	0.00	0.00	0.00	15.95	15531.78
9	74.50	0.00	0.00	198.35	18.06	15389.87
10	67.46	0.00	0.00	198.35	18.69	15240.29
11	44.10	0.00	0.00	198.35	18.09	15067.95
12	59.45	0.00	0.00	198.35	23.81	14905.24
13	63.09	0.00	0.00	198.35	23.52	14746.46
14	63.49	0.00	0.00	198.35	23.32	14588.28
15	46.72	0.00	0.00	198.35	17.81	14418.84
16	46.06	0.00	0.00	198.35	14.63	14251.92
17	54.03	0.00	0.00	198.35	25.28	14082.32
18	31.44	0.00	0.00	198.35	20.57	13894.84
19	17.77	0.00	0.00	198.35	18.92	13695.34
20	20.53	0.00	0.00	198.35	18.77	13498.75
21	35.71	0.00	0.00	198.35	18.97	13317.14
22	47.43	0.00	0.00	198.35	11.44	13154.78
23	46.74	0.00	0.00	198.35	16.16	12987.01
24	34.69	0.00	0.00	198.35	14.59	12808.76
25	26.39	0.00	0.00	198.35	20.84	12615.96
26	37.64	0.00	0.00	198.35	14.13	12441.12
27	41.81	0.00	0.00	198.35	14.23	12270.35
28	64.81	0.00	0.00	198.35	14.07	12122.74
29	43.95	0.00	0.00	198.35	15.01	11953.33
30	28.11	0.00	0.00	198.35	19.94	11763.15
31	40.55	0.00	0.00	198.35	12.37	11592.98
	2712.19	0.00	0.00	4562.05	522.78	

OffsetAccount-Consumable Upstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						1331.29
1	0.00	0.00	0.00	0.00	0.35	1330.94
2	0.00	0.00	0.00	0.00	1.14	1329.80
3	24.09	0.00	0.00	0.00	1.85	1352.04
4	578.13	0.00	0.00	0.00	1.88	1928.29
5	554.04	0.00	0.00	0.00	1.64	2480.69
6	0.00	0.00	0.00	0.00	2.10	2478.59
7	0.00	0.00	0.00	0.00	2.10	2476.49
8	0.00	0.00	0.00	0.00	2.55	2473.94
9	0.00	0.00	0.00	0.00	2.88	2471.06
10	0.00	0.00	0.00	0.00	3.00	2468.06
11	0.00	0.00	0.00	0.00	2.93	2465.13
12	0.00	0.00	0.00	0.00	3.90	2461.23
13	0.00	0.00	0.00	0.00	3.89	2457.34
14	0.00	0.00	0.00	0.00	3.89	2453.45
15	0.00	0.00	0.00	0.00	3.00	2450.45
16	0.00	0.00	0.00	0.00	2.49	2447.96
17	0.00	0.00	0.00	0.00	4.34	2443.62
18	0.00	0.00	0.00	0.00	3.57	2440.05
19	0.00	0.00	0.00	0.00	3.32	2436.73
20	0.00	0.00	0.00	0.00	3.34	2433.39
21	0.00	0.00	0.00	0.00	3.42	2429.97
22	0.00	0.00	0.00	0.00	2.09	2427.88
23	0.00	0.00	0.00	0.00	2.99	2424.89
24	0.00	0.00	0.00	0.00	2.73	2422.16
25	0.00	0.00	0.00	0.00	3.95	2418.21
26	0.00	0.00	0.00	0.00	2.71	2415.50
27	0.00	0.00	0.00	0.00	2.77	2412.73
28	0.00	0.00	0.00	0.00	2.77	2409.96
29	0.00	0.00	0.00	0.00	2.99	2406.97
30	0.00	0.00	0.00	0.00	4.02	2402.95
31	0.00	0.00	0.00	0.00	2.53	2400.42
	1156.26	0.00	0.00	0.00	87.13	

OffsetAccount-Consumable Kansas

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-Consumable Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						13656.71
1	54.00	0.00	0.00	0.00	3.63	13707.08
2	55.51	0.00	0.00	0.00	11.71	13750.88
3	75.94	0.00	0.00	0.00	19.16	13807.66
4	649.33	0.00	0.00	0.00	19.24	14437.75
5	646.26	0.00	0.00	0.00	12.30	15071.71
6	82.68	0.00	0.00	0.00	12.76	15141.63
7	55.65	0.00	0.00	0.00	12.81	15184.47
8	56.35	0.00	0.00	0.00	15.63	15225.19
9	74.50	0.00	0.00	198.35	17.70	15083.64
10	67.46	0.00	0.00	198.35	18.32	14934.43
11	44.10	0.00	0.00	61.48	17.72	14899.33
12	59.45	0.00	0.00	95.31	23.55	14839.92
13	63.09	0.00	0.00	198.35	23.42	14681.24
14	63.49	0.00	0.00	198.35	23.22	14523.16
15	46.72	0.00	0.00	198.35	17.73	14353.80
16	46.06	0.00	0.00	198.35	14.56	14186.95
17	54.03	0.00	0.00	198.35	25.16	14017.47
18	31.44	0.00	0.00	198.35	20.48	13830.08
19	17.77	0.00	0.00	198.35	18.83	13630.67
20	20.53	0.00	0.00	198.35	18.68	13434.17
21	35.71	0.00	0.00	198.35	18.88	13252.65
22	47.43	0.00	0.00	198.35	11.38	13090.35
23	46.74	0.00	0.00	198.35	16.08	12922.66
24	34.69	0.00	0.00	198.35	14.52	12744.48
25	26.39	0.00	0.00	198.35	20.74	12551.78
26	37.64	0.00	0.00	198.35	14.06	12377.01
27	41.81	0.00	0.00	198.35	14.16	12206.31
28	64.81	0.00	0.00	198.35	14.00	12058.77
29	43.95	0.00	0.00	198.35	14.93	11889.44
30	28.11	0.00	0.00	198.35	19.83	11699.37
31	40.55	0.00	0.00	198.35	12.30	11529.27
	2712.19	0.00	0.00	4322.14	517.49	

OffsetAccount-Consumable Downstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						11862.89
1	54.00	0.00	0.00	0.00	3.16	11913.73
2	55.51	0.00	0.00	0.00	10.18	11959.06
3	51.85	0.00	0.00	0.00	16.67	11994.24
4	71.20	0.00	0.00	0.00	16.72	12048.72
5	92.22	0.00	0.00	0.00	10.27	12130.67
6	82.68	0.00	0.00	0.00	10.27	12203.08
7	55.65	0.00	0.00	0.00	10.32	12248.41
8	56.35	0.00	0.00	0.00	12.61	12292.15
9	74.50	0.00	0.00	0.00	14.29	12352.36
10	67.46	0.00	0.00	0.00	15.00	12404.82
11	44.10	0.00	0.00	0.00	14.72	12434.20
12	59.45	0.00	0.00	95.31	19.65	12378.69
13	63.09	0.00	0.00	198.35	19.53	12223.90
14	63.49	0.00	0.00	198.35	19.33	12069.71
15	46.72	0.00	0.00	198.35	14.73	11903.35
16	46.06	0.00	0.00	198.35	12.07	11738.99
17	54.03	0.00	0.00	198.35	20.82	11573.85
18	31.44	0.00	0.00	198.35	16.91	11390.03
19	17.77	0.00	0.00	198.35	15.51	11193.94
20	20.53	0.00	0.00	198.35	15.34	11000.78
21	35.71	0.00	0.00	198.35	15.46	10822.68
22	47.43	0.00	0.00	198.35	9.29	10662.47
23	46.74	0.00	0.00	198.35	13.09	10497.77
24	34.69	0.00	0.00	198.35	11.79	10322.32
25	26.39	0.00	0.00	198.35	16.79	10133.57
26	37.64	0.00	0.00	198.35	11.35	9961.51
27	41.81	0.00	0.00	198.35	11.39	9793.58
28	64.81	0.00	0.00	198.35	11.23	9648.81
29	43.95	0.00	0.00	198.35	11.94	9482.47
30	28.11	0.00	0.00	198.35	15.81	9296.42
31	40.55	0.00	0.00	198.35	9.77	9128.85
	1555.93	0.00	0.00	3863.96	426.01	

OffsetAccount-Consumable Kansas Charge

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						462.53
1	0.00	0.00	0.00	0.00	0.12	462.41
2	0.00	0.00	0.00	0.00	0.39	462.02
3	0.00	0.00	0.00	0.00	0.64	461.38
4	0.00	0.00	0.00	0.00	0.64	460.74
5	0.00	0.00	0.00	0.00	0.39	460.35
6	0.00	0.00	0.00	0.00	0.39	459.96
7	0.00	0.00	0.00	0.00	0.39	459.57
8	0.00	0.00	0.00	0.00	0.47	459.10
9	0.00	0.00	0.00	198.35	0.53	260.22
10	0.00	0.00	0.00	198.35	0.32	61.55
11	0.00	0.00	0.00	61.48	0.07	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	458.18	4.35	

OffsetAccount-ReturnFlow

Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						308.91
1	0.00	0.00	0.00	0.00	0.08	308.83
2	0.00	0.00	0.00	0.00	0.27	308.56
3	0.00	0.00	0.00	0.00	0.43	308.13
4	0.00	0.00	0.00	0.00	0.43	307.70
5	0.00	0.00	0.00	0.00	0.27	307.43
6	0.00	0.00	0.00	0.00	0.26	307.17
7	0.00	0.00	0.00	0.00	0.26	306.91
8	0.00	0.00	0.00	0.00	0.32	306.59
9	0.00	0.00	0.00	0.00	0.36	306.23
10	0.00	0.00	0.00	0.00	0.37	305.86
11	0.00	0.00	0.00	136.87	0.37	168.62
12	0.00	0.00	0.00	103.04	0.26	65.32
13	0.00	0.00	0.00	0.00	0.10	65.22
14	0.00	0.00	0.00	0.00	0.10	65.12
15	0.00	0.00	0.00	0.00	0.08	65.04
16	0.00	0.00	0.00	0.00	0.07	64.97
17	0.00	0.00	0.00	0.00	0.12	64.85
18	0.00	0.00	0.00	0.00	0.09	64.76
19	0.00	0.00	0.00	0.00	0.09	64.67
20	0.00	0.00	0.00	0.00	0.09	64.58
21	0.00	0.00	0.00	0.00	0.09	64.49
22	0.00	0.00	0.00	0.00	0.06	64.43
23	0.00	0.00	0.00	0.00	0.08	64.35
24	0.00	0.00	0.00	0.00	0.07	64.28
25	0.00	0.00	0.00	0.00	0.10	64.18
26	0.00	0.00	0.00	0.00	0.07	64.11
27	0.00	0.00	0.00	0.00	0.07	64.04
28	0.00	0.00	0.00	0.00	0.07	63.97
29	0.00	0.00	0.00	0.00	0.08	63.89
30	0.00	0.00	0.00	0.00	0.11	63.78
31	0.00	0.00	0.00	0.00	0.07	63.71
	0.00	0.00	0.00	239.91	5.29	

OffsetAccount-ReturnFlow

RF Transit Loss

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						66.17
1	0.00	0.00	0.00	0.00	0.02	66.15
2	0.00	0.00	0.00	0.00	0.06	66.09
3	0.00	0.00	0.00	0.00	0.09	66.00
4	0.00	0.00	0.00	0.00	0.09	65.91
5	0.00	0.00	0.00	0.00	0.06	65.85
6	0.00	0.00	0.00	0.00	0.06	65.79
7	0.00	0.00	0.00	0.00	0.06	65.73
8	0.00	0.00	0.00	0.00	0.07	65.66
9	0.00	0.00	0.00	0.00	0.08	65.58
10	0.00	0.00	0.00	0.00	0.08	65.50
11	0.00	0.00	0.00	0.00	0.08	65.42
12	0.00	0.00	0.00	0.00	0.10	65.32
13	0.00	0.00	0.00	0.00	0.10	65.22
14	0.00	0.00	0.00	0.00	0.10	65.12
15	0.00	0.00	0.00	0.00	0.08	65.04
16	0.00	0.00	0.00	0.00	0.07	64.97
17	0.00	0.00	0.00	0.00	0.12	64.85
18	0.00	0.00	0.00	0.00	0.09	64.76
19	0.00	0.00	0.00	0.00	0.09	64.67
20	0.00	0.00	0.00	0.00	0.09	64.58
21	0.00	0.00	0.00	0.00	0.09	64.49
22	0.00	0.00	0.00	0.00	0.06	64.43
23	0.00	0.00	0.00	0.00	0.08	64.35
24	0.00	0.00	0.00	0.00	0.07	64.28
25	0.00	0.00	0.00	0.00	0.10	64.18
26	0.00	0.00	0.00	0.00	0.07	64.11
27	0.00	0.00	0.00	0.00	0.07	64.04
28	0.00	0.00	0.00	0.00	0.07	63.97
29	0.00	0.00	0.00	0.00	0.08	63.89
30	0.00	0.00	0.00	0.00	0.11	63.78
31	0.00	0.00	0.00	0.00	0.07	63.71
	0.00	0.00	0.00	0.00	2.46	

OffsetAccount-ReturnFlow

Return Flow

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						242.74
1	0.00	0.00	0.00	0.00	0.06	242.68
2	0.00	0.00	0.00	0.00	0.21	242.47
3	0.00	0.00	0.00	0.00	0.34	242.13
4	0.00	0.00	0.00	0.00	0.34	241.79
5	0.00	0.00	0.00	0.00	0.21	241.58
6	0.00	0.00	0.00	0.00	0.20	241.38
7	0.00	0.00	0.00	0.00	0.20	241.18
8	0.00	0.00	0.00	0.00	0.25	240.93
9	0.00	0.00	0.00	0.00	0.28	240.65
10	0.00	0.00	0.00	0.00	0.29	240.36
11	0.00	0.00	0.00	136.87	0.29	103.20
12	0.00	0.00	0.00	103.04	0.16	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	239.91	2.83	

OffsetAccount-Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						11592.98
1	66.30	0.00	0.00	198.35	10.90	11450.03
2	54.07	0.00	0.00	198.35	15.72	11290.03
3	35.35	0.00	0.00	198.35	15.53	11111.50
4	22.26	0.00	0.00	198.35	15.66	10919.75
5	22.70	0.00	0.00	198.35	12.61	10731.49
6	45.32	0.00	0.00	198.35	12.14	10566.32
7	35.72	0.00	0.00	198.35	16.33	10387.36
8	61.47	0.00	0.00	198.35	14.00	10236.48
9	62.02	0.00	0.00	136.37	7.54	10154.59
10	38.69	0.00	0.00	119.01	7.49	10066.78
11	36.22	0.00	0.00	119.01	7.43	9976.56
12	37.16	0.00	0.00	99.18	11.16	9903.38
13	44.85	0.00	0.00	119.01	16.53	9812.69
14	63.65	0.00	0.00	119.01	10.35	9746.98
15	42.62	0.00	0.00	119.01	13.17	9657.42
16	40.73	0.00	0.00	119.01	9.13	9570.01
17	61.54	0.00	0.00	119.01	9.09	9503.45
18	46.99	0.00	0.00	119.01	8.79	9422.64
19	12.61	0.00	0.00	119.01	13.25	9302.99
20	23.40	0.00	0.00	119.01	9.79	9197.59
21	20.16	0.00	0.00	119.01	9.16	9089.58
22	14.70	0.00	0.00	119.01	11.57	8973.70
23	9.59	0.00	0.00	119.01	10.40	8853.88
24	17.82	0.00	0.00	119.01	10.33	8742.36
25	40.49	0.00	0.00	119.01	10.25	8653.59
26	33.30	0.00	0.00	107.44	9.14	8570.31
27	12.47	0.00	0.00	99.18	9.89	8473.71
28	20.42	0.00	0.00	99.18	8.74	8386.21
29	18.50	0.00	0.00	99.18	11.04	8294.49
30	8.89	0.00	0.00	99.18	9.88	8194.32
31	1.06	0.00	0.00	99.18	9.25	8086.95
	1051.07	0.00	0.00	4210.84	346.26	

OffsetAccount-Consumable Upstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						2400.42
1	0.00	0.00	0.00	0.00	2.26	2398.16
2	0.00	0.00	0.00	0.00	3.29	2394.87
3	0.00	0.00	0.00	0.00	3.29	2391.58
4	0.00	0.00	0.00	0.00	3.37	2388.21
5	0.00	0.00	0.00	0.00	2.76	2385.45
6	0.00	0.00	0.00	0.00	2.70	2382.75
7	0.00	0.00	0.00	0.00	3.68	2379.07
8	0.00	0.00	0.00	0.00	3.21	2375.86
9	0.00	0.00	0.00	0.00	1.75	2374.11
10	0.00	0.00	0.00	0.00	1.75	2372.36
11	0.00	0.00	0.00	0.00	1.75	2370.61
12	0.00	0.00	0.00	0.00	2.65	2367.96
13	0.00	0.00	0.00	0.00	3.95	2364.01
14	0.00	0.00	0.00	0.00	2.49	2361.52
15	0.00	0.00	0.00	0.00	3.19	2358.33
16	0.00	0.00	0.00	0.00	2.23	2356.10
17	0.00	0.00	0.00	0.00	2.24	2353.86
18	0.00	0.00	0.00	0.00	2.18	2351.68
19	0.00	0.00	0.00	0.00	3.31	2348.37
20	0.00	0.00	0.00	0.00	2.47	2345.90
21	0.00	0.00	0.00	0.00	2.34	2343.56
22	0.00	0.00	0.00	0.00	2.98	2340.58
23	0.00	0.00	0.00	0.00	2.71	2337.87
24	0.00	0.00	0.00	0.00	2.73	2335.14
25	0.00	0.00	0.00	0.00	2.74	2332.40
26	0.00	0.00	0.00	0.00	2.46	2329.94
27	0.00	0.00	0.00	0.00	2.69	2327.25
28	0.00	0.00	0.00	0.00	2.40	2324.85
29	0.00	0.00	0.00	0.00	3.06	2321.79
30	0.00	0.00	0.00	0.00	2.77	2319.02
31	0.00	0.00	0.00	0.00	2.62	2316.40
	0.00	0.00	0.00	0.00	84.02	

OffsetAccount-Consumable Kansas

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-Consumable Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						11529.27
1	66.30	0.00	0.00	198.35	10.84	11386.38
2	54.07	0.00	0.00	198.35	15.63	11226.47
3	35.35	0.00	0.00	198.35	15.44	11048.03
4	22.26	0.00	0.00	198.35	15.57	10856.37
5	22.70	0.00	0.00	198.35	12.54	10668.18
6	45.32	0.00	0.00	198.35	12.07	10503.08
7	35.72	0.00	0.00	198.35	16.23	10324.22
8	61.47	0.00	0.00	198.35	13.91	10173.43
9	62.02	0.00	0.00	136.37	7.49	10091.59
10	38.69	0.00	0.00	119.01	7.44	10003.83
11	36.22	0.00	0.00	119.01	7.38	9913.66
12	37.16	0.00	0.00	99.18	11.09	9840.55
13	44.85	0.00	0.00	119.01	16.43	9749.96
14	63.65	0.00	0.00	119.01	10.28	9684.32
15	42.62	0.00	0.00	119.01	13.09	9594.84
16	40.73	0.00	0.00	119.01	9.07	9507.49
17	61.54	0.00	0.00	119.01	9.03	9440.99
18	46.99	0.00	0.00	119.01	8.73	9360.24
19	12.61	0.00	0.00	119.01	13.16	9240.68
20	23.40	0.00	0.00	119.01	9.72	9135.35
21	20.16	0.00	0.00	119.01	9.10	9027.40
22	14.70	0.00	0.00	119.01	11.49	8911.60
23	9.59	0.00	0.00	119.01	10.33	8791.85
24	17.82	0.00	0.00	119.01	10.26	8680.40
25	40.49	0.00	0.00	119.01	10.18	8591.70
26	33.30	0.00	0.00	107.44	9.07	8508.49
27	12.47	0.00	0.00	99.18	9.82	8411.96
28	20.42	0.00	0.00	99.18	8.68	8324.52
29	18.50	0.00	0.00	99.18	10.96	8232.88
30	8.89	0.00	0.00	99.18	9.81	8132.78
31	1.06	0.00	0.00	99.18	9.18	8025.48
	1051.07	0.00	0.00	4210.84	344.02	

OffsetAccount-Consumable Downstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						9128.85
1	66.30	0.00	0.00	198.35	8.58	8988.22
2	54.07	0.00	0.00	198.35	12.34	8831.60
3	35.35	0.00	0.00	198.35	12.15	8656.45
4	22.26	0.00	0.00	198.35	12.20	8468.16
5	22.70	0.00	0.00	198.35	9.78	8282.73
6	45.32	0.00	0.00	198.35	9.37	8120.33
7	35.72	0.00	0.00	198.35	12.55	7945.15
8	61.47	0.00	0.00	198.35	10.70	7797.57
9	62.02	0.00	0.00	136.37	5.74	7717.48
10	38.69	0.00	0.00	119.01	5.69	7631.47
11	36.22	0.00	0.00	119.01	5.63	7543.05
12	37.16	0.00	0.00	99.18	8.44	7472.59
13	44.85	0.00	0.00	119.01	12.48	7385.95
14	63.65	0.00	0.00	119.01	7.79	7322.80
15	42.62	0.00	0.00	119.01	9.90	7236.51
16	40.73	0.00	0.00	119.01	6.84	7151.39
17	61.54	0.00	0.00	119.01	6.79	7087.13
18	46.99	0.00	0.00	119.01	6.55	7008.56
19	12.61	0.00	0.00	119.01	9.85	6892.31
20	23.40	0.00	0.00	119.01	7.25	6789.45
21	20.16	0.00	0.00	119.01	6.76	6683.84
22	14.70	0.00	0.00	119.01	8.51	6571.02
23	9.59	0.00	0.00	119.01	7.62	6453.98
24	17.82	0.00	0.00	119.01	7.53	6345.26
25	40.49	0.00	0.00	119.01	7.44	6259.30
26	33.30	0.00	0.00	107.44	6.61	6178.55
27	12.47	0.00	0.00	99.18	7.13	6084.71
28	20.42	0.00	0.00	99.18	6.28	5999.67
29	18.50	0.00	0.00	99.18	7.90	5911.09
30	8.89	0.00	0.00	99.18	7.04	5813.76
31	1.06	0.00	0.00	99.18	6.56	5709.08
	1051.07	0.00	0.00	4210.84	260.00	

OffsetAccount-Consumable Kansas Charge

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-ReturnFlow

Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						63.71
1	0.00	0.00	0.00	0.00	0.06	63.65
2	0.00	0.00	0.00	0.00	0.09	63.56
3	0.00	0.00	0.00	0.00	0.09	63.47
4	0.00	0.00	0.00	0.00	0.09	63.38
5	0.00	0.00	0.00	0.00	0.07	63.31
6	0.00	0.00	0.00	0.00	0.07	63.24
7	0.00	0.00	0.00	0.00	0.10	63.14
8	0.00	0.00	0.00	0.00	0.09	63.05
9	0.00	0.00	0.00	0.00	0.05	63.00
10	0.00	0.00	0.00	0.00	0.05	62.95
11	0.00	0.00	0.00	0.00	0.05	62.90
12	0.00	0.00	0.00	0.00	0.07	62.83
13	0.00	0.00	0.00	0.00	0.10	62.73
14	0.00	0.00	0.00	0.00	0.07	62.66
15	0.00	0.00	0.00	0.00	0.08	62.58
16	0.00	0.00	0.00	0.00	0.06	62.52
17	0.00	0.00	0.00	0.00	0.06	62.46
18	0.00	0.00	0.00	0.00	0.06	62.40
19	0.00	0.00	0.00	0.00	0.09	62.31
20	0.00	0.00	0.00	0.00	0.07	62.24
21	0.00	0.00	0.00	0.00	0.06	62.18
22	0.00	0.00	0.00	0.00	0.08	62.10
23	0.00	0.00	0.00	0.00	0.07	62.03
24	0.00	0.00	0.00	0.00	0.07	61.96
25	0.00	0.00	0.00	0.00	0.07	61.89
26	0.00	0.00	0.00	0.00	0.07	61.82
27	0.00	0.00	0.00	0.00	0.07	61.75
28	0.00	0.00	0.00	0.00	0.06	61.69
29	0.00	0.00	0.00	0.00	0.08	61.61
30	0.00	0.00	0.00	0.00	0.07	61.54
31	0.00	0.00	0.00	0.00	0.07	61.47
	0.00	0.00	0.00	0.00	2.24	

OffsetAccount-ReturnFlow

RF Transit Loss

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						63.71
1	0.00	0.00	0.00	0.00	0.06	63.65
2	0.00	0.00	0.00	0.00	0.09	63.56
3	0.00	0.00	0.00	0.00	0.09	63.47
4	0.00	0.00	0.00	0.00	0.09	63.38
5	0.00	0.00	0.00	0.00	0.07	63.31
6	0.00	0.00	0.00	0.00	0.07	63.24
7	0.00	0.00	0.00	0.00	0.10	63.14
8	0.00	0.00	0.00	0.00	0.09	63.05
9	0.00	0.00	0.00	0.00	0.05	63.00
10	0.00	0.00	0.00	0.00	0.05	62.95
11	0.00	0.00	0.00	0.00	0.05	62.90
12	0.00	0.00	0.00	0.00	0.07	62.83
13	0.00	0.00	0.00	0.00	0.10	62.73
14	0.00	0.00	0.00	0.00	0.07	62.66
15	0.00	0.00	0.00	0.00	0.08	62.58
16	0.00	0.00	0.00	0.00	0.06	62.52
17	0.00	0.00	0.00	0.00	0.06	62.46
18	0.00	0.00	0.00	0.00	0.06	62.40
19	0.00	0.00	0.00	0.00	0.09	62.31
20	0.00	0.00	0.00	0.00	0.07	62.24
21	0.00	0.00	0.00	0.00	0.06	62.18
22	0.00	0.00	0.00	0.00	0.08	62.10
23	0.00	0.00	0.00	0.00	0.07	62.03
24	0.00	0.00	0.00	0.00	0.07	61.96
25	0.00	0.00	0.00	0.00	0.07	61.89
26	0.00	0.00	0.00	0.00	0.07	61.82
27	0.00	0.00	0.00	0.00	0.07	61.75
28	0.00	0.00	0.00	0.00	0.06	61.69
29	0.00	0.00	0.00	0.00	0.08	61.61
30	0.00	0.00	0.00	0.00	0.07	61.54
31	0.00	0.00	0.00	0.00	0.07	61.47
	0.00	0.00	0.00	0.00	2.24	

OffsetAccount-ReturnFlow

Return Flow

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						8086.95
1	8.71	0.00	0.00	99.18	9.14	7987.34
2	17.73	0.00	0.00	99.18	9.03	7896.86
3	39.10	0.00	0.00	99.18	10.68	7826.10
4	30.08	0.00	0.00	99.18	13.58	7743.42
5	12.46	0.00	0.00	99.18	7.84	7648.86
6	23.76	0.00	0.00	99.18	11.66	7561.78
7	20.43	0.00	0.00	99.18	11.57	7471.46
8	11.50	0.00	0.00	99.18	11.75	7372.03
9	16.01	0.00	0.00	99.18	6.19	7282.67
10	9.78	0.00	0.00	0.00	12.71	7279.74
11	8.71	0.00	0.00	0.00	7.78	7280.67
12	8.71	0.00	0.00	0.00	6.87	7282.51
13	8.71	0.00	0.00	0.00	8.31	7282.91
14	15.69	0.00	0.00	0.00	8.34	7290.26
15	42.36	0.00	0.00	0.00	8.61	7324.01
16	47.81	0.00	0.00	0.00	14.22	7357.60
17	21.69	0.00	0.00	0.00	8.75	7370.54
18	18.69	0.00	0.00	0.00	13.46	7375.77
19	17.02	0.00	0.00	0.00	9.60	7383.19
20	9.51	0.00	0.00	0.00	9.65	7383.05
21	8.71	0.00	0.00	0.00	9.95	7381.81
22	8.71	0.00	0.00	0.00	9.74	7380.78
23	8.71	0.00	0.00	0.00	7.03	7382.46
24	8.71	0.00	0.00	0.00	8.08	7383.09
25	27.93	0.00	0.00	0.00	8.86	7402.16
26	53.16	0.00	0.00	0.00	10.43	7444.89
27	34.49	0.00	0.00	0.00	9.51	7469.87
28	11.41	0.00	0.00	0.00	9.56	7471.72
29	17.27	0.00	0.00	0.00	9.85	7479.14
30	16.54	0.00	0.00	0.00	14.58	7481.10
	584.10	0.00	0.00	892.62	297.33	

OffsetAccount-Consumable Upstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						2316.40
1	0.00	0.00	0.00	0.00	2.62	2313.78
2	0.00	0.00	0.00	0.00	2.62	2311.16
3	0.00	0.00	0.00	0.00	3.13	2308.03
4	0.00	0.00	0.00	0.00	4.00	2304.03
5	0.00	0.00	0.00	0.00	2.33	2301.70
6	0.00	0.00	0.00	0.00	3.51	2298.19
7	0.00	0.00	0.00	0.00	3.52	2294.67
8	0.00	0.00	0.00	0.00	3.61	2291.06
9	0.00	0.00	0.00	0.00	1.92	2289.14
10	0.00	0.00	0.00	0.00	3.99	2285.15
11	0.00	0.00	0.00	0.00	2.44	2282.71
12	0.00	0.00	0.00	0.00	2.15	2280.56
13	0.00	0.00	0.00	0.00	2.60	2277.96
14	0.00	0.00	0.00	0.00	2.61	2275.35
15	0.00	0.00	0.00	0.00	2.69	2272.66
16	0.00	0.00	0.00	0.00	4.41	2268.25
17	0.00	0.00	0.00	0.00	2.70	2265.55
18	0.00	0.00	0.00	0.00	4.14	2261.41
19	0.00	0.00	0.00	0.00	2.94	2258.47
20	0.00	0.00	0.00	0.00	2.95	2255.52
21	0.00	0.00	0.00	0.00	3.04	2252.48
22	0.00	0.00	0.00	0.00	2.97	2249.51
23	0.00	0.00	0.00	0.00	2.14	2247.37
24	0.00	0.00	0.00	0.00	2.46	2244.91
25	0.00	0.00	0.00	0.00	2.69	2242.22
26	0.00	0.00	0.00	0.00	3.16	2239.06
27	0.00	0.00	0.00	0.00	2.86	2236.20
28	0.00	0.00	0.00	0.00	2.86	2233.34
29	0.00	0.00	0.00	0.00	2.94	2230.40
30	0.00	0.00	0.00	0.00	4.35	2226.05
	0.00	0.00	0.00	0.00	90.35	

OffsetAccount-Consumable Kansas

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-Consumable Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						8025.48
1	8.71	0.00	0.00	99.18	9.07	7925.94
2	17.73	0.00	0.00	99.18	8.96	7835.53
3	39.10	0.00	0.00	99.18	10.60	7764.85
4	30.08	0.00	0.00	99.18	13.47	7682.28
5	12.46	0.00	0.00	99.18	7.78	7587.78
6	23.76	0.00	0.00	99.18	11.57	7500.79
7	20.43	0.00	0.00	99.18	11.48	7410.56
8	11.50	0.00	0.00	99.18	11.65	7311.23
9	16.01	0.00	0.00	99.18	6.14	7221.92
10	9.78	0.00	0.00	0.00	12.60	7219.10
11	8.71	0.00	0.00	0.00	7.72	7220.09
12	8.71	0.00	0.00	0.00	6.81	7221.99
13	8.71	0.00	0.00	0.00	8.24	7222.46
14	15.69	0.00	0.00	0.00	8.27	7229.88
15	42.36	0.00	0.00	0.00	8.54	7263.70
16	47.81	0.00	0.00	0.00	14.10	7297.41
17	21.69	0.00	0.00	0.00	8.68	7310.42
18	18.69	0.00	0.00	0.00	13.35	7315.76
19	17.02	0.00	0.00	0.00	9.52	7323.26
20	9.51	0.00	0.00	0.00	9.57	7323.20
21	8.71	0.00	0.00	0.00	9.87	7322.04
22	8.71	0.00	0.00	0.00	9.66	7321.09
23	8.71	0.00	0.00	0.00	6.97	7322.83
24	8.71	0.00	0.00	0.00	8.01	7323.53
25	27.93	0.00	0.00	0.00	8.79	7342.67
26	53.16	0.00	0.00	0.00	10.35	7385.48
27	34.49	0.00	0.00	0.00	9.43	7410.54
28	11.41	0.00	0.00	0.00	9.48	7412.47
29	17.27	0.00	0.00	0.00	9.77	7419.97
30	16.54	0.00	0.00	0.00	14.46	7422.05
	584.10	0.00	0.00	892.62	294.91	

OffsetAccount-Consumable Downstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						5709.08
1	8.71	0.00	0.00	99.18	6.45	5612.16
2	17.73	0.00	0.00	99.18	6.34	5524.37
3	39.10	0.00	0.00	99.18	7.47	5456.82
4	30.08	0.00	0.00	99.18	9.47	5378.25
5	12.46	0.00	0.00	99.18	5.45	5286.08
6	23.76	0.00	0.00	99.18	8.06	5202.60
7	20.43	0.00	0.00	99.18	7.96	5115.89
8	11.50	0.00	0.00	99.18	8.04	5020.17
9	16.01	0.00	0.00	99.18	4.22	4932.78
10	9.78	0.00	0.00	0.00	8.61	4933.95
11	8.71	0.00	0.00	0.00	5.28	4937.38
12	8.71	0.00	0.00	0.00	4.66	4941.43
13	8.71	0.00	0.00	0.00	5.64	4944.50
14	15.69	0.00	0.00	0.00	5.66	4954.53
15	42.36	0.00	0.00	0.00	5.85	4991.04
16	47.81	0.00	0.00	0.00	9.69	5029.16
17	21.69	0.00	0.00	0.00	5.98	5044.87
18	18.69	0.00	0.00	0.00	9.21	5054.35
19	17.02	0.00	0.00	0.00	6.58	5064.79
20	9.51	0.00	0.00	0.00	6.62	5067.68
21	8.71	0.00	0.00	0.00	6.83	5069.56
22	8.71	0.00	0.00	0.00	6.69	5071.58
23	8.71	0.00	0.00	0.00	4.83	5075.46
24	8.71	0.00	0.00	0.00	5.55	5078.62
25	27.93	0.00	0.00	0.00	6.10	5100.45
26	53.16	0.00	0.00	0.00	7.19	5146.42
27	34.49	0.00	0.00	0.00	6.57	5174.34
28	11.41	0.00	0.00	0.00	6.62	5179.13
29	17.27	0.00	0.00	0.00	6.83	5189.57
30	16.54	0.00	0.00	0.00	10.11	5196.00
	584.10	0.00	0.00	892.62	204.56	

OffsetAccount-Consumable Kansas Charge

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-ReturnFlow

Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						61.47
1	0.00	0.00	0.00	0.00	0.07	61.40
2	0.00	0.00	0.00	0.00	0.07	61.33
3	0.00	0.00	0.00	0.00	0.08	61.25
4	0.00	0.00	0.00	0.00	0.11	61.14
5	0.00	0.00	0.00	0.00	0.06	61.08
6	0.00	0.00	0.00	0.00	0.09	60.99
7	0.00	0.00	0.00	0.00	0.09	60.90
8	0.00	0.00	0.00	0.00	0.10	60.80
9	0.00	0.00	0.00	0.00	0.05	60.75
10	0.00	0.00	0.00	0.00	0.11	60.64
11	0.00	0.00	0.00	0.00	0.06	60.58
12	0.00	0.00	0.00	0.00	0.06	60.52
13	0.00	0.00	0.00	0.00	0.07	60.45
14	0.00	0.00	0.00	0.00	0.07	60.38
15	0.00	0.00	0.00	0.00	0.07	60.31
16	0.00	0.00	0.00	0.00	0.12	60.19
17	0.00	0.00	0.00	0.00	0.07	60.12
18	0.00	0.00	0.00	0.00	0.11	60.01
19	0.00	0.00	0.00	0.00	0.08	59.93
20	0.00	0.00	0.00	0.00	0.08	59.85
21	0.00	0.00	0.00	0.00	0.08	59.77
22	0.00	0.00	0.00	0.00	0.08	59.69
23	0.00	0.00	0.00	0.00	0.06	59.63
24	0.00	0.00	0.00	0.00	0.07	59.56
25	0.00	0.00	0.00	0.00	0.07	59.49
26	0.00	0.00	0.00	0.00	0.08	59.41
27	0.00	0.00	0.00	0.00	0.08	59.33
28	0.00	0.00	0.00	0.00	0.08	59.25
29	0.00	0.00	0.00	0.00	0.08	59.17
30	0.00	0.00	0.00	0.00	0.12	59.05
	0.00	0.00	0.00	0.00	2.42	

OffsetAccount-ReturnFlow

RF Transit Loss

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						61.47
1	0.00	0.00	0.00	0.00	0.07	61.40
2	0.00	0.00	0.00	0.00	0.07	61.33
3	0.00	0.00	0.00	0.00	0.08	61.25
4	0.00	0.00	0.00	0.00	0.11	61.14
5	0.00	0.00	0.00	0.00	0.06	61.08
6	0.00	0.00	0.00	0.00	0.09	60.99
7	0.00	0.00	0.00	0.00	0.09	60.90
8	0.00	0.00	0.00	0.00	0.10	60.80
9	0.00	0.00	0.00	0.00	0.05	60.75
10	0.00	0.00	0.00	0.00	0.11	60.64
11	0.00	0.00	0.00	0.00	0.06	60.58
12	0.00	0.00	0.00	0.00	0.06	60.52
13	0.00	0.00	0.00	0.00	0.07	60.45
14	0.00	0.00	0.00	0.00	0.07	60.38
15	0.00	0.00	0.00	0.00	0.07	60.31
16	0.00	0.00	0.00	0.00	0.12	60.19
17	0.00	0.00	0.00	0.00	0.07	60.12
18	0.00	0.00	0.00	0.00	0.11	60.01
19	0.00	0.00	0.00	0.00	0.08	59.93
20	0.00	0.00	0.00	0.00	0.08	59.85
21	0.00	0.00	0.00	0.00	0.08	59.77
22	0.00	0.00	0.00	0.00	0.08	59.69
23	0.00	0.00	0.00	0.00	0.06	59.63
24	0.00	0.00	0.00	0.00	0.07	59.56
25	0.00	0.00	0.00	0.00	0.07	59.49
26	0.00	0.00	0.00	0.00	0.08	59.41
27	0.00	0.00	0.00	0.00	0.08	59.33
28	0.00	0.00	0.00	0.00	0.08	59.25
29	0.00	0.00	0.00	0.00	0.08	59.17
30	0.00	0.00	0.00	0.00	0.12	59.05
	0.00	0.00	0.00	0.00	2.42	

OffsetAccount-ReturnFlow

Return Flow

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

Summary of Key Information for Section II - Offset Delivery June-July 2017

10/18/2019

Date	Flow Data			Release Data				Muskingum routing				Antecedent Flow Calculations			Delivery Calculations	
	Mean Daily Stateline (SL) Flow	Mean Daily Stateline (SL) Flow	SL flow less antecedent flow	Offset Consumable Release	Offset Non-Consumable Release	Section 2 Release	Transit Loss Release	Total Release	Total Release Times 1.05	Routed release	Routed release, lagged one day				Stateline Delivery Hydrograph	Equivalent Stateline Flow Hydrograph
			199.4													
	CFS	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF				AF	AF
5/31/2019	100	197	0	0	0	0	0	0	0	0	0	Initial Average=	238.86		0	0
6/1/2019	91	180	0	0	0	0	0	0	0	0	0				0	0
6/2/2019	94	186	0	0	0	0	0	0	0	0	0				0	0
6/3/2019	99	196	0	0	0	0	0	0	0	0	0				0	0
6/4/2019	99	197	0	0	0	0	0	0	0	0	0				0	0
6/5/2019	116	230	30	0	0	0	0	0	0	0	0				0	0
6/6/2019	107	212	13	0	0	0	0	0	0	0	0				0	0
6/7/2019	93	184	0	0	0	0	0	0	0	0	0				0	0
6/8/2019	88	175	0	0	0	0	0	0	0	0	0				0	0
6/9/2019	82	163	0	0	0	0	0	0	0	0	0				0	0
6/10/2019	87	172	0	0	0	0	0	0	0	0	0	YES	7		0	0
6/11/2019	91	181	0	0	0	0	0	0	0	0	0	YES	8		0	0
6/12/2019	87	173	0	0	0	0	0	0	0	0	0	YES	9		0	0
6/13/2019	79	157	0	0	0	0	0	0	0	0	0	YES	10		0	0
6/14/2019	79	156	0	0	0	0	0	0	0	0	0	YES	6		0	0
6/15/2019	121	241	41	0	0	0	0	0	0	0	0	NO	5		0	0
6/16/2019	137	272	73	0	0	0	0	0	0	0	0	NO	3		0	0
6/17/2019	141	279	80	0	0	0	0	0	0	0	0	NO	4		0	0
6/18/2019	137	273	73	0	0	0	0	0	0	0	0	NO	1		0	0
6/19/2019	181	359	160	0	0	509	54	509	535	25	0	NO	2		0	0
6/20/2019	150	298	98	0	0	873	248	873	916	238	25	Adjusted Average	167.97	839.87	25	25
6/21/2019	203	402	203	0	0	873	248	873	916	496	238	YES		5.00	203	238
6/22/2019	284	562	363	0	0	873	248	873	916	656	496	YES			363	496
6/23/2019	404	802	603	0	0	873	248	873	916	755	656	YES			603	656
6/24/2019	433	858	659	0	0	873	248	873	916	817	755	YES			659	755
6/25/2019	431	854	655	0	0	873	248	873	916	855	817	NO			655	817
6/26/2019	438	868	669	0	0	873	248	873	916	878	855	NO			669	855
6/27/2019	443	879	680	0	0	873	248	873	916	893	878	NO			680	878
6/28/2019	453	899	700	0	0	1000	288	1000	1050	908	893	NO			700	893
6/29/2019	453	899	700	0	0	1091	317	1091	1145	967	908	NO			700	899
6/30/2019	517	1026	826	0	0	1091	317	1091	1145	1035	967	NO			826	967
7/1/2019	573	1136	937	0	0	1091	317	1091	1145	1077	1035	Adjusted Average	170.89	683.58	937	1035
7/2/2019	622	1234	1034	0	0	1091	0	1091	1145	1103	1077	Final Baseflow	86.16	4.00	1034	1077
7/3/2019	585	1160	961	0	0	1091	0	1091	1145	1119	1103	Computations for < 6 days			961	1103
7/4/2019	583	1156	957	0	0	1091	0	1091	1145	1129	1119	Enter date of 6th day	6/15/2019	240.58	957	1119
7/5/2019	592	1174	974	0	0	1091	0	1091	1145	1135	1129	Enter date of 5th day	6/16/2019	272.19	974	1129
7/6/2019	588	1167	968	0	0	1091	248	1091	1145	1139	1135	Enter date of 4th day		0.00	968	1135
7/7/2019	596	1181	982	0	0	1091	248	1091	1145	1142	1139	Average with 6 days	199.39		982	1139
7/8/2019	617	1223	1024	0	0	1091	248	1091	1145	1143	1142				1024	1142
7/9/2019	615	1220	1020	0	198	893	0	1091	1145	1144	1143				1020	1143
7/10/2019	608	1207	1007	0	198	893	0	1091	1145	1145	1144				1007	1144
7/11/2019	597	1184	985	0	198	893	0	1091	1145	1145	1145				985	1145
7/12/2019	584	1158	958	95	103	893	0	1091	1145	1145	1145				958	1145
7/13/2019	565	1120	920	198	0	893	0	1091	1145	1145	1145				920	1120
7/14/2019	561	1113	914	198	0	893	0	1091	1145	1145	1145				914	1113
7/15/2019	569	1129	929	198	0	893	0	1091	1145	1145	1145				929	1129
7/16/2019	566	1123	923	198	0	893	0	1091	1145	1145	1145				923	1123
7/17/2019	561	1112	913	198	0	893	0	1091	1145	1145	1145				913	1112
7/18/2019	559	1109	909	198	0	893	0	1091	1145	1145	1145				909	1109
7/19/2019	535	1061	862	198	0	893	0	1091	1145	1145	1145				862	1061
7/20/2019	531	1054	855	198	0	893	0	1091	1145	1145	1145				855	1054
7/21/2019	560	1110	911	198	0	893	0	1091	1145	1145	1145				911	1110
7/22/2019	601	1191	992	198	0	893	0	1091	1145	1145	1145				992	1145
7/23/2019	580	1150	950	198	0	893	0	1091	1145	1145	1145				950	1145
7/24/2019	572	1134	934	198	0	893	0	1091	1145	1145	1145				934	1134
7/25/2019	613	1216	1016	198	0	743	0	941	988	1138	1145				1016	1145
7/26/2019	603	1196	997	198	0	645	0	843	885	1076	1138				997	1138
7/27/2019	539	1068	869	198	0	645	0	843	885	1003	1076				869	1068
7/28/2019	512	1016	816	198	0	645	0	843	885	958	1003				816	1003
7/29/2019	489	969	770	198	0	645	0	843	885	930	958				770	958
7/30/2019	468	928	729	198	0	645	0	843	885	913	930				729	928
7/31/2019	476	944	745	198	0	645	0	843	885	902	913				745	913
8/1/2019	486	964	765	198	0	645	0	843	885	896	902				765	902
8/2/2019	488	968	769	198	0	723	0	921	967	896	896				769	896
8/3/2019	503	998	799	198	0	853	0	1051	1104	929	896				799	896
8/4/2019	545	1082	883	198	0	853	0	1051	1104	996	929				883	929
8/5/2019	566	1123	923	198	0	853	0	1051	1104	1037	996				923	996
8/6/2019	584	1159	960	198	0	853	0	1051	1104	1062	1037				960	1037
8/7/2019	595	1180	980	198	0	853	0	1051	1104	1078	1062				980	1062
8/8/2019	633	1256	1057	198	0	853	0	1051	1104	1088	1078				1057	1078
8/9/2019	643	1274	1075	136	0	816	0	952	1000	1089	1088				1075	1088
8/10/2019	657	1302	1103	119	0	774	0	893	937	1052	1089				1089	1089
8/11/2019	617	1223	1023	119	0	774	0	893	937	1008	1052				1023	1052
8/12/2019	620	1229	1030	119	0	774	0	893	937	981	1008				1008	1008
8/13/2019	591	1172	973	119	0	774	0	893	937	964	981				973	981
8/14/2019	668	1326	1127	119	0	674	0	793	833	949	964				964	964
8/15/2019	707	1403	1203	119	0	615	0	734	771	902	949				949	949
8/16/2019	681	1350	1151	119	0	615	0	734	771	852	902				902	902
8/17/2019	594	1179	980	119	0	615	0	734	771	821	852				852	852
8/18/2019	544	1080	880	119	0	615	0	734	771	802	821				821	821
8/19/2019	514	1020	821	119	0	615	0	734	771	790	802				802	802
8/20/2019	498	988	789	119	0	615	0	734	771	783	790				789	790
8/21/2019	469	930	730	119	0	615	0	734	771	778	783				730	783
8/22/2019	456	904	704	119	0	615	0	734	771	775	778				704	778
8/23/2019	429	850	651	119	0	615	0	734	771	773	775				651	775
8/24/2019	452	896	696	119	0	615	0	734	771	772	773				696	773
8/25/2019	448	888	689	119	0	615	0	734	771	772	772				689	772
8/26/2019	422	837	638	107	0	545	0	653	686	767	772				638	772
8/27/2019	404	801	602	99	0	496	0	595	625	733	767				602	767
8/28/2019	377	748	549	99	0	496	0	595	625	692	733				549	733
8/29/2019	351	697	498	99	0	496	0	595	625	666	692				498	692
8/30/2019	344	683	484	99	0	496	0	595	625	651	666				484	666
8/31/2019	350	695	495	99	0	496	0	595	625	641	651				495	651
9/1/2019	354	703	503	99	0	496	0	595	625	635	641				503	641
9/2/2019	347	688	489	99	0	496	0	595	625	631	635				489	635
9/3/2019	328	652	452	99	0	438	0	537	564	626	631				452	631
9/4/2019	314	623	424	99	0	397	0	496	521	600	626				424	623
9/5/2019	302	599	400	99	0	397	0	496	521	570	600				400	599
9/6/2019	293	581	382	99	0	397	0	496	521	551	570				382	570
9/7/2019	287	569	369	99	0	397	0	496	521	540	551				369	551
9/8/2019	285	566	366	99	0	397	0	496	521	532	540				366	540
9/9/2019	289	574	374	99	0	397	0	496	521	528	532				374	532
9/10/2019	315	624	425	0	0	0	0	0	0	500	528				425	528
9/11/2019	298	591	391	0	0	0	0	0	0	310	500				391	500
9/12/2019	230	456	256	0	0	0	0	0	0	192	310				256	310
9/13/2019	201	399	199	0	0	0	0	0	0	119	192				192	192
9/14/2019	184	365	166	0	0	0	0	0	0	73	119				119	119
9/15/2019	168	333	134	0	0	0	0	0	0	0	70				70	70
9/16/2019	0	0	0	0	0	0	0	0	0	0	0				0	0
9/17/2019	0	0	0	0	0	0	0	0	0	0	0				0	0
9/18/2019	0	0	0	0	0	0	0	0	0	0	0				0	0
9/19/2019	0	0	0	0	0	0	0	0	0	0	0				0	0
9/20/2019	0	0	0	0	0	0	0	0	0	0	0				0	0
9/21/2019	0	0	0	0	0	0	0	0	0	0	0				0	0
9/22/2019	0	0	0	0	0	0	0	0	0	0	0				0	0
9/23/2019	0	0	0	0	0	0	0	0	0	0	0				0	0
9/24/2019	0	0	0	0	0	0	0	0	0	0	0				0	0
9/25/2019	0	0	0	0	0	0	0	0	0	0	0				0	0
9/26/2019	0	0	0	0	0	0	0	0	0	0	0				0	0
9/27/2019	0	0	0	0	0	0	0	0	0	0	0				0	0
9/28/2019	0	0	0	0	0	0	0	0	0	0	0				0	0
9/29/2019	0	0	0	0	0	0	0	0	0	0	0				0	0
9/30/2019	0	0	0	0	0	0	0	0	0	0	0				0	0
1/21/2020	0	0	0	0	0	0	0	0	0	0	0				0	0
1/22/2020	0	0	0	0	0	0	0	0	0	0	0				0	0
1/23/2020	0	0	0	0	0	0	0	0	0	0	0				0	0
			Totals	8987	698	62960	4022	72645	76278	76158	76155				65173	75743

Paragraph 3.b.iii check	
Average for prior days 11-20	189.42
Is value twice the computed Antecedent Flow Value?	No
Muskingum Day 6 =	#N/A
Para. 3.b.iii AF Value	#N/A

Total Offset =	9685
Transit Loss on Consumable =	924
Granada Transit Loss Credit Percentage =	100.0%
Transit Loss Model Input JMR to Lamar =	63
Transit Loss Model Input Lamar to Granada =	321
Transit Loss Model Input Granada to Stateline =	310
Total Transit Loss Model Input =	693

Muskingum
Derivation of factors

K (hr)=	60	cO=	0.048
x =	0.15	c1 =	0.333
t (hr) =	24	c2 =	0.619
		c0+c1+c2 =	1.00

K t ratio check

2Kx < t < 2K(1-x)

18 24 102

Offset Delivery Efficiency =	89.71%
Offset Net Delivery =	8689
Offset Consumable Delivery =	8063
ESF Delivery Efficiency =	104.3%
Section II Delivery =	62960
Section II Delivery Transit Loss =	0
Evaporation Delivery Credit	0

Data Input Sheet for Section II/Offset Account Delivery June-July 2017

Type of Release	C	Start Time	10:00 AM	Rate	444.00	Did any other release occur within			
Release Start Date	6/19/2019	Offset Release Start Date		7/9/2019		ten days prior to this release?	No		
Release End Date	9/9/2019	Offset Release End Date		9/9/2019		If yes, enter Antecedent Flow from Prior Release >			
Ending Hour	11:59 PM	Enter Cumulative Evap Credit AF		0.00		If yes, enter Granada Antecedent Flow from Prior Release >			

	Gage Data					Release Amounts					
	Stateline Flow Data		Intermediate Gage Data			Offset Account		Offset Account Release	Kansas Section II	Transit Loss	Total
Date	Coolidge (cfs)	Frontier (cfs)	Below JMR (cfs)	Lamar (cfs)	Granada (cfs)	Consumable (af)	All Other (af)		(af)	(af)	(af)
5/31/2019	78.0	21.5	506.0	12.2	26.1			0.0			0.0
6/1/2019	71.7	19.1	505.8	12.7	25.5			0.0			0.0
6/2/2019	73.3	20.2	505.9	12.8	25.3			0.0			0.0
6/3/2019	77.8	21.0	494.0	12.0	24.5			0.0			0.0
6/4/2019	82.4	17.0	486.5	12.4	26.5			0.0			0.0
6/5/2019	97.2	18.6	487.7	10.7	24.5			0.0			0.0
6/6/2019	89.2	17.9	503.1	11.1	22.2			0.0			0.0
6/7/2019	75.9	16.8	518.1	10.8	23.5			0.0			0.0
6/8/2019	72.4	15.6	518.6	11.4	17.7			0.0			0.0
6/9/2019	67.6	14.5	519.5	12.5	13.7			0.0			0.0
6/10/2019	72.1	14.8	519.7	12.3	13.2			0.0			0.0
6/11/2019	73.0	18.0	519.2	12.7	13.8			0.0			0.0
6/12/2019	59.7	27.7	517.1	12.6	13.7			0.0			0.0
6/13/2019	52.5	26.7	664.9	15.2	13.6			0.0			0.0
6/14/2019	52.7	26.1	691.4	17.0	16.0			0.0			0.0
6/15/2019	86.9	34.4	624.7	34.3	26.4			0.0			0.0
6/16/2019	102.3	35.0	625.4	48.5	53.3			0.0			0.0
6/17/2019	105.3	35.3	609.4	44.2	71.2			0.0			0.0
6/18/2019	102.3	35.1	586.9	42.5	79.2			0.0			0.0
6/19/2019	145.7	35.3	892.4	87.1	80.6			0.0	509.10	54.4	563.5
6/20/2019	114.9	35.2	1139.2	378.7	154.0			0.0	872.74	247.9	1120.7
6/21/2019	167.8	35.0	1190.5	466.3	303.7			0.0	872.74	247.9	1120.7
6/22/2019	248.7	34.9	1193.3	524.7	389.2			0.0	872.74	247.9	1120.7
6/23/2019	372.5	31.8	1198.0	561.7	453.0			0.0	872.74	247.9	1120.7
6/24/2019	404.8	27.8	1199.1	570.8	472.8			0.0	872.74	247.9	1120.7
6/25/2019	402.3	28.5	1148.0	572.0	475.0			0.0	872.74	247.9	1120.7
6/26/2019	407.5	30.1	1102.6	563.3	465.1			0.0	872.74	247.9	1120.7
6/27/2019	408.1	35.1	1149.9	568.4	472.1			0.0	872.74	247.9	1120.7
6/28/2019	419.0	34.4	1253.0	571.7	467.9			0.0	1000.02	288.4	1288.5
6/29/2019	418.7	34.7	1332.2	721.9	530.5			0.0	1090.93	317.4	1408.3
6/30/2019	483.8	33.3	1336.7	738.7	598.8			0.0	1090.93	317.4	1408.3
7/1/2019	539.1	33.7	1396.0	740.1	628.0			0.0	1090.93	317.4	1408.3
7/2/2019	587.8	34.1	1439.3	660.0	605.7			0.0	1090.93	0.0	1090.9
7/3/2019	551.4	33.4	1432.9	655.0	581.7			0.0	1090.93	0.0	1090.9
7/4/2019	549.7	33.2	1431.6	645.3	581.2			0.0	1090.93	0.0	1090.9
7/5/2019	558.9	32.9	1412.2	640.9	582.6			0.0	1090.93	0.0	1090.9
7/6/2019	559.7	28.8	1432.2	640.5	579.0			0.0	1090.93	247.9	1338.9
7/7/2019	573.8	21.8	1416.5	658.2	597.0			0.0	1090.93	247.9	1338.9
7/8/2019	583.5	33.0	1408.8	644.0	589.7			0.0	1090.93	247.9	1338.9
7/9/2019	582.3	32.7	1393.6	633.8	584.6		198.35	198.4	892.58	0.0	1090.9
7/10/2019	575.8	32.5	1385.1	628.0	573.9		198.35	198.4	892.58		1090.9
7/11/2019	564.6	32.4	1377.9	631.7	580.9		198.35	198.4	892.58		1090.9
7/12/2019	551.3	32.3	1373.2	636.1	576.5	95.31	103.04	198.4	892.58		1090.9
7/13/2019	532.2	32.4	1369.0	632.9	580.9	198.35		198.4	892.58		1090.9
7/14/2019	528.7	32.4	1359.0	624.8	571.6	198.35		198.4	892.58		1090.9
7/15/2019	536.4	32.6	1219.0	611.6	571.5	198.35		198.4	892.58		1090.9
7/16/2019	533.6	32.3	1210.0	620.2	570.8	198.35		198.4	892.58		1090.9
7/17/2019	528.1	32.8	1275.5	635.4	594.7	198.35		198.4	892.58		1090.9
7/18/2019	526.0	33.0	1248.3	604.0	586.1	198.35		198.4	892.58		1090.9
7/19/2019	501.7	33.2	1305.1	608.3	563.5	198.35		198.4	892.58		1090.9
7/20/2019	498.4	33.1	1325.4	614.5	570.8	198.35		198.4	892.58		1090.9
7/21/2019	526.5	33.1	1325.8	633.4	622.4	198.35		198.4	892.58		1090.9
7/22/2019	567.7	32.8	1300.9	618.9	602.3	198.35		198.4	892.58		1090.9
7/23/2019	547.0	32.6	1320.0	599.7	576.7	198.35		198.4	892.58		1090.9
7/24/2019	538.7	32.9	1296.6	660.5	585.3	198.35		198.4	892.58		1090.9
7/25/2019	580.3	32.7	1189.4	602.2	585.0	198.35		198.4	742.78		941.1
7/26/2019	570.6	32.5	1118.0	502.7	520.7	198.35		198.4	644.64		843.0
7/27/2019	506.1	32.6	1117.5	482.1	476.5	198.35		198.4	644.64		843.0

Data Input Sheet for Section II/Offset Account Delivery June-July 2017

	Gage Data					Release Amounts					
	Stateline Flow Data		Intermediate Gage Data			Offset Account		Offset Account Release	Kansas Section II	Transit Loss	Total
Date	Coolidge (cfs)	Frontier (cfs)	Below JMR (cfs)	Lamar (cfs)	Granada (cfs)	Consumable (af)	All Other (af)		(af)	(af)	(af)
7/28/2019	479.4	32.7	1112.7	468.4	454.3	198.35		198.4	644.64		843.0
7/29/2019	456.0	32.6	1114.8	467.2	442.2	198.35		198.4	644.64		843.0
7/30/2019	435.3	32.7	1116.7	482.4	444.2	198.35		198.4	644.64		843.0
7/31/2019	443.6	32.5	1130.1	475.5	441.6	198.35		198.4	644.64		843.0
8/1/2019	453.4	32.7	1144.5	469.5	441.3	198.35		198.4	644.64		843.0
8/2/2019	455.6	32.7	1151.3	479.6	434.1	198.35		198.4	722.74		921.1
8/3/2019	471.1	32.1	1122.4	614.2	477.5	198.35		198.4	852.90		1051.3
8/4/2019	513.4	32.1	1122.0	627.7	530.8	198.35		198.4	852.90		1051.3
8/5/2019	533.0	33.1	1104.8	616.9	540.2	198.35		198.4	852.90		1051.3
8/6/2019	551.0	33.3	1110.8	617.6	540.2	198.35		198.4	852.90		1051.3
8/7/2019	562.5	32.3	1109.5	634.3	559.8	198.35		198.4	852.90		1051.3
8/8/2019	600.3	32.9	1111.3	638.4	585.9	198.35		198.4	852.90		1051.3
8/9/2019	609.4	33.2	1109.4	635.7	613.2	136.37		136.4	815.71		952.1
8/10/2019	623.8	32.9	1107.9	536.6	559.7	119.01		119.0	773.57		892.6
8/11/2019	584.2	32.4	1108.0	545.7	551.5	119.01		119.0	773.57		892.6
8/12/2019	587.0	32.6	1134.3	532.8	530.4	119.01		119.0	773.57		892.6
8/13/2019	558.0	32.9	1150.1	543.0	535.6	119.01		119.0	773.57		892.6
8/14/2019	636.4	32.0	1023.4	521.6	571.0	119.01		119.0	674.40		793.4
8/15/2019	675.0	32.2	925.9	460.4	536.2	119.01		119.0	614.89		733.9
8/16/2019	648.6	32.2	900.4	423.5	494.5	119.01		119.0	614.89		733.9
8/17/2019	562.5	31.9	873.9	388.9	466.4	119.01		119.0	614.89		733.9
8/18/2019	512.3	32.1	876.0	369.7	433.0	119.01		119.0	614.89		733.9
8/19/2019	482.6	31.8	858.6	362.7	419.3	119.01		119.0	614.89		733.9
8/20/2019	466.1	32.0	817.8	366.6	413.6	119.01		119.0	614.89		733.9
8/21/2019	437.3	31.4	816.8	373.3	406.8	119.01		119.0	614.89		733.9
8/22/2019	423.7	31.8	792.8	339.3	394.0	119.01		119.0	614.89		733.9
8/23/2019	397.1	31.6	783.9	340.1	391.6	119.01		119.0	614.89		733.9
8/24/2019	420.0	31.6	780.5	332.1	441.3	119.01		119.0	614.89		733.9
8/25/2019	416.2	31.5	776.5	324.9	397.9	119.01		119.0	614.89		733.9
8/26/2019	390.5	31.4	752.9	312.4	383.8	107.44		107.4	545.47		652.9
8/27/2019	372.4	31.4	703.0	291.4	363.0	99.18		99.2	495.88		595.1
8/28/2019	346.0	31.3	671.6	286.1	350.5	99.18		99.2	495.88		595.1
8/29/2019	320.0	31.4	669.8	289.6	349.0	99.18		99.2	495.88		595.1
8/30/2019	313.2	31.1	675.5	294.6	353.2	99.18		99.2	495.88		595.1
8/31/2019	319.2	31.1	692.3	294.6	354.2	99.18		99.2	495.9		595.1
9/1/2019	322.9	31.4	683.6	290.6	351.4	99.18		99.2	495.9		595.1
9/2/2019	315.6	31.4	665.6	273.5	341.9	99.18		99.2	495.9		595.1
9/3/2019	297.3	31.2	658.9	269.3	316.6	99.18		99.2	438.0		537.2
9/4/2019	283.3	30.9	631.5	265.9	301.4	99.18		99.2	396.7		495.9
9/5/2019	270.8	31.2	612.1	270.4	286.8	99.18		99.2	396.7		495.9
9/6/2019	262.3	30.9	618.7	263.6	273.2	99.18		99.2	396.7		495.9
9/7/2019	255.8	31.0	630.2	263.2	268.4	99.18		99.2	396.7		495.9
9/8/2019	254.5	30.7	623.7	266.2	275.1	99.18		99.2	396.7		495.9
9/9/2019	258.8	30.5	633.5	332.0	306.0	99.18		99.2	396.7		495.9
9/10/2019	283.9	30.9	410.1	206.7	310.4	0.00		0.0	0.0		0.0
9/11/2019	266.7	31.2	384.7	91.8	207.7			0.0			0.0
9/12/2019	201.1	28.6	367.9	77.8	148.6			0.0			0.0
9/13/2019	176.1	25.0	366.1	62.0	129.8			0.0			0.0
9/14/2019	160.9	23.2	341.4	54.1	114.2			0.0			0.0
9/15/2019	146.6	21.4	321.7	34.8	101.2			0.0			0.0
9/16/2019								0.0			0.0
9/17/2019								0.0			0.0
9/18/2019								0.0			0.0
9/19/2019								0.0			0.0
9/20/2019								0.0			0.0
						8987.3	698.1		62960.1	4022.2	

COLORADO
Division of Water Resources
Department of Natural Resources

November 27, 2019

David Barfield
Kansas Chief Engineer
Kansas Board of Agriculture
901 S. Kansas Avenue, 2nd Floor
Topeka, KS 66612-1283

RE: Notice of Delivery to the Offset Account in John Martin Reservoir – Fort Lyon Canal Water Rights

Dear Mr. Barfield:

The purpose of this letter is to provide the notice required by paragraph 3 of the **Resolution Concerning an Offset Account in John Martin Reservoir for Colorado Pumping as Amended March 30, 1998** ("Resolution") of a delivery of water to the Offset Account. This letter provides the reporting of deliveries to the Offset Account from the Lower Arkansas Water Management Association's (LAWMA) shares of the Fort Lyon Canal Company. This letter also serves to describe the operations in 2019, first described in the letter of April 4, 2019, which provided the initial notice of the delivery of water from this replacement source for 2019.

Summary

Enclosure 1 contains the accounting spreadsheets used to determine the credits from the Fort Lyon Canal for 2019 that resulted in the JMAS accounting presented in the Offset Account Report and Operation Secretary's Report.

Randy Hendrix, LAWMA's engineer, provided the Historical Consumptive Use analysis that quantified the historical use of the associated Fort Lyon Canal shares and determined the consumptive use and return flow components on a monthly basis as well as the volumetric limits applied to use of the temporarily changed shares in LAWMA's Rule 14 Plan. Those components were included as an appendix to the LAWMA Rule 14 Plan approval for 2019-20.

The overall operation of the LAWMA Fort Lyon shares involved deliveries through four augmentation stations at Fort Lyon Headgate numbers 49, 125, 126 and 145 capable of delivering water to the Arkansas River or to John Martin Reservoir above the John Martin dam. Additionally, there are four augmentation stations at Fort Lyon Headgate numbers 160, 166, 181 and 182 through which deliveries are made to the Arkansas River below John Martin dam for in-state replacement. Three recharge ponds were implemented in 2018 and included in the LAWMA accounting as a means to maintain delayed return flows associated with the Fort Lyon shares and to reduce winter time deliveries for return flow maintenance. Two more recharge facilities were constructed and tested or in the process of testing in 2019, but have not yet been included in LAWMAs accounting.

Also included in this year's letter are the recharge pond accounting and modeling sheets used within the LAWMA accounting spreadsheet for the Fort Lyon Canal shares.

Maps of the augmentation station and recharge pond locations are included in Enclosure 2.

The following table summarizes the actual deliveries of water into the Offset Account (and for in-state replacement) during the reporting period from the Fort Lyon Canal water rights.

	FORT LYON CANAL SHARES DELIVERED THROUGH AUGMENTATION STATIONS									TRANSIT LOSS CALCULATIONS								Total CU Credits Delivered to the Arkansas River						
	Above John Martin Dam				Below John Martin Dam				Total	Above John Martin Dam				Below John Martin Dam						To Offset	In-State	Below John Martin Dam		
	ARF049CO	ARF125CO	ARF126CO	ARF145CO	ARF160CO	ARF166CO	ARF181CO	ARF182CO		ARF049CO	ARF125CO	ARF126CO	ARF145CO	ARF160CO	ARF166CO	ARF181CO	ARF182CO	Reach 9	Reach 10	Account	Repl.	Reach 11	Reach 12	Reach 13
March	119.51	11.19	31.02	0.00	0.00	0.00	0.00	6.31	168.03	2.07	0.16	0.10	0.00	0.00	0.00	0.00	0.12	50.50	18.67	68.03	0.00	0.00	0.00	3.13
April	95.13	20.75	36.44	0.00	35.91	0.00	7.87	15.80	211.90	1.65	0.30	0.12	0.00	0.80	0.00	0.03	0.40	69.55	42.87	110.86	-0.01	27.24	6.07	11.88
May	265.96	54.96	100.21	47.63	86.81	30.76	45.12	23.46	645.92	4.46	0.79	0.32	0.11	1.94	0.17	0.16	0.59	194.93	159.10	349.63	0.01	67.13	60.03	18.14
June	666.14	86.28	213.64	216.92	95.63	91.60	105.88	41.52	1517.60	11.56	1.24	0.67	0.51	2.14	0.52	0.39	1.04	521.05	418.11	918.03	9.41	75.35	159.66	32.86
July	500.44	128.29	215.31	205.34	139.40	144.20	150.88	54.92	1538.79	8.68	1.85	0.68	0.48	3.11	0.81	0.55	1.38	377.18	430.16	798.85	0.00	105.76	230.30	42.03
August	440.14	90.94	156.52	184.40	120.12	128.64	94.71	57.10	1272.57	7.64	1.31	0.49	0.43	2.68	0.73	0.35	1.44	314.0	323.58	630.50	0.01	86.79	166.07	41.75
September	282.43	55.24	109.37	74.19	60.66	28.16	73.57	25.79	709.40	4.90	0.80	0.35	0.17	1.36	0.16	0.27	0.65	172.90	157.31	0.00	330.21	38.66	66.78	16.67
October	185.85	33.06	97.99	47.49	84.62	45.30	55.56	41.28	591.17	3.22	0.48	0.31	0.11	1.89	0.26	0.2	1.04	94.60	101.32	0.00	195.92	48.15	57.79	23.70
November*	0.00	0.00	32.93	3.47	46.11	4.48	10.75	7.30	105.03	0.0	0.0	0.10	0.01	1.03	0.03	0.04	0.18	0.0	15.33	0.00	15.33	21.01	6.97	3.32
Total	2546.60	480.72	993.42	779.42	669.25	473.14	544.37	273.48	6760.41	44.18	6.93	3.14	1.83	14.95	2.67	1.99	6.84	1794.7	1666.4	2875.9	550.89	470.09	753.67	193.48
Total Apr-Oct	2427.09	469.53	929.48	775.96	623.14	468.67	533.61	259.87	6487.35	42.11	6.76	2.93	1.83	13.92	2.64	1.95	6.53	1744.2	1632.4	2807.87	535.55	449.08	746.70	187.03

* November values included for reference; will be counted as a delivery in Compact Year 2020

The table below shows LAWMA's computation of Winter Return Flows owed from 2019 operations during the December through February months.

LAWMA'S REPLACEMENT SOURCES FROM FORT LYON CANAL THROUGH AUGMENTATION STATIONS

		IRRIGATION SEASON FORT LYON CANAL SHARES DELIVERED THROUGH AUGMENTATION STATIONS										Winter Return Flows Owed			
Item	Station	March	April	May	June	July	August	September	October	November	Total	December	January	February	Total
	(af)	(af)	(af)	(af)	(af)	(af)	(af)	(af)	(af)	(af)	(af)	(af)	(af)	(af)	(af)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
	Above John Martin Dam														
1	ARF049CO	119.51	95.13	256.96	666.14	500.44	440.14	282.43	185.85	0.00	2546.60	70.0	60.2	56.8	187.0
2	ARF125CO	11.19	20.75	54.96	86.28	128.29	90.94	55.24	33.06	0.00	480.72	10.8	9.4	9.1	29.3
3	ARF126CO	31.02	36.44	100.21	213.64	215.31	156.52	109.37	97.99	32.93	993.42	25.4	22.3	21.8	69.5
4	ARF145CO	0.00	0.0	47.63	216.9	205.34	184.40	74.19	47.49	3.47	779.42	17.2	14.5	13.8	45.5
	Total	161.7	152.31	459.76	1182.98	1049.38	872.0	521.22	364.40	36.39	4800.17	123.4	106.4	101.5	331.3
	Below John Martin Dam														
5	ARF160CO	0.00	35.91	86.81	95.63	139.40	120.12	60.66	84.62	46.11	669.25	14.6	11.9	11.3	37.9
6	ARF166CO	0.00	0.00	30.76	91.60	144.20	128.64	28.16	45.30	4.48	473.14	10.6	8.9	8.5	28.0
7	ARF181CO	0.00	7.87	45.12	105.88	150.88	94.71	73.57	55.56	10.75	544.37	12.5	10.6	10.2	33.3
8	ARF182CO	6.31	15.80	23.46	41.52	54.92	57.10	25.79	41.28	7.30	273.48	6.2	5.3	5.1	16.5
	Total	6.31	59.59	186.16	334.62	489.41	400.58	188.18	226.76	68.64	1960.24	43.9	36.7	35.1	115.7

In addition to the values shown in the above table, there was 38.43 acre-feet delivered to the Offset Account from the Fort Lyon upstream augmentation stations during the first half of November 2018.

Please contact me if you have any questions or require additional information.

Sincerely,

Bill W. Tyner

Bill W. Tyner, P.E.
Division Engineer
Colorado Division of Water Resources

3 Enclosures

cc: Kevin Salter Dale Book Don Higbee Randy Hendrix
Rachel Zancanella Phil Reynolds Bethany Arnold

Enclosure 1

Fort Lyon Canal Accounting for 2019

TABLE ___

LAWMA'S REPLACEMENT SOURCES FROM FORT LYON CANAL THROUGH AUGMENTATION STATIONS

Month: November **Year:** 2017

		FORT LYON CANAL SHARES DELIVERED THROUGH AUGMENTATION STATIONS									TRANSIT LOSS CALCULATIONS								Total CU Credits Delivered to the Arkansas River										
		Above John Martin Dam				Below John Martin Dam				Total	Above John Martin Dam				Below John Martin Dam						To Offset		22.5		To Offset	In-State	Below John Martin Dam		
		ARF049CO	ARF125CO	ARF126CO	ARF145CO	ARF160CO	ARF166CO	ARF181CO	ARF182CO		ARF049CO	ARF125CO	ARF126CO	ARF145CO	ARF160CO	ARF166CO	ARF181CO	ARF182CO	Reach 9	Reach 10	Account		Miles		Account	Repl.	Reach 11	Reach 12	Reach 13
	Fort Lyon Canal Diversions	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Yes or	Arkansas River @ Las Animas	Reach 9 TL to Offset Account	Reach 9 TL to Offset Account	Volume	Volume	Flow	Flow	Flow
Day	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	No	(cfs)	(% / mile)	(cfs)	(af)	(af)	(cfs)	(cfs)	(cfs)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(23)	(24)	(25)	(26)	(27)
1	179.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Yes	68.2	0.1%	0.0	0.0	0.0	0.0	0.0	0.5
2	174.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Yes	67.7	0.1%	0.0	0.0	0.0	0.0	0.0	0.0
3	183.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Yes	67.0	0.1%	0.0	0.0	0.0	0.0	0.0	0.0
4	235.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Yes	71.3	0.1%	0.0	0.0	0.0	0.0	0.0	0.0
5	255.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Yes	75.5	0.1%	0.0	0.0	0.0	0.0	0.0	0.0
6	249.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Yes	65.7	0.1%	0.0	0.0	0.0	0.0	0.0	0.0
7	256.0	3.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.75	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	Yes	59.8	0.1%	0.0	2.7	0.0	0.0	0.0	0.0
8	267.0	5.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.40	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	Yes	63.9	0.1%	0.0	3.8	0.0	0.0	0.0	0.0
9	272.0	2.74	1.67	3.48	0.00	0.89	0.00	0.00	0.97	9.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.2	Yes	44.7	0.1%	0.0	6.4	0.0	0.4	0.0	0.4
10	273.0	0.00	3.13	6.65	8.87	0.76	0.00	0.00	1.92	21.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.5	Yes	55.4	0.1%	0.0	16.8	0.0	0.3	0.0	0.9
11	287.0	0.00	1.31	2.57	6.45	0.00	0.00	0.00	1.04	11.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	Yes	67.0	0.1%	0.0	9.4	0.0	0.0	0.0	0.5
12	262.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Yes	77.0	0.1%	0.0	0.0	0.0	0.0	0.0	0.0
13	250.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Yes	73.6	0.1%	0.0	0.0	0.0	0.0	0.0	0.0
14	192.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Yes	71.8	0.1%	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Yes	160.0	0.1%	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Yes	273.0	0.1%	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	yes	187.0	0.1%	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	yes	158.0	0.1%	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	yes	146.0	0.1%	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	yes	135.0	0.1%	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	yes	129.0	0.1%	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	yes	123.0	0.1%	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	yes	120.0	0.1%	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	yes	119.0	0.1%	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	yes	113.0	0.1%	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	yes	122.0	0.1%	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	yes	116.0	0.1%	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	yes	115.0	0.1%	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	yes	113.0	0.1%	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	yes	112.0	0.1%	0.0	0.0	0.0	0.0	0.0	0.0
31																													
cfsd	3,334.0	11.9	6.1	12.7	15.3	1.7	0.0	0.0	4.9	52.6	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.1	4.4	15.5		3,169.6		0.1			0.8	0.0	2.2
ac-ft	6,613.0	23.6	12.1	25.2	30.4	3.3	0.0	0.0	9.8	104.3	0.4	0.2	0.1	0.1	0.1	0.0	0.0	0.2	8.6	30.7		6,286.9		0.2	39.1	0.0	1.5	0.0	4.4
CU CREDITS (ac-ft)																			8.6	30.7					39.1	0.0	1.5	0.0	4.4
Monthly CU Factor		37.3%	48.4%	41.7%	47.6%	46.6%	46.2%	45.9%	46.7%																				

Monthly FHG Delivery	104.3	
Cumulative Annual FHG Delivery	6,759.7	
Maximum Monthly FHG Delivery Limit	1,652.3	FALSE Exceeds Limit
Cumulative Annual FHG Delivery Limit	20,029.4	FALSE Exceeds Limit

	Into JMR				To LAWMA Bucket (6700999)				
	ARF049CO	ARF125CO	ARF126CO	ARF145CO	ARF160CO	ARF166CO	ARF181CO	ARF182CO	Total Del to JMR
1	0.00	0.00	0.00	0.00	0	0	0	0.5	0.00
2	0.00	0.00	0.00	0.00	0	0	0	0	0.00
3	0.00	0.00	0.00	0.00	0	0	0	0	0.00
5	0.00	0.00	0.00	0.00	0	0	0	0	0.00
6	0.00	0.00	0.00	0.00	0	0	0	0	0.00
7	2.66	0.00	0.00	0.00	0	0	0	0	2.66
8	3.84	0.00	0.00	0.00	0	0	0	0	3.84
9	1.95	1.54	2.80	0.00	0.4	0	0	0.4	6.29
10	0.00	2.89	5.36	8.17	0.3	0	0	0.9	16.42
11	0.00	1.21	2.07	5.94	0	0	0	0.5	9.22
12	0.00	0.00	0.00	0.00	0	0	0	0	0.00
13	0.00	0.00	0.00	0.00	0	0	0	0	0.00
14	0.00	0.00	0.00	0.00	0	0	0	0	0.00
15	0.00	0.00	0.00	0.00	0	0	0	0	0.00
16	0.00	0.00	0.00	0.00	0	0	0	0	0.00
17	0.00	0.00	0.00	0.00	0	0	0	0	0.00
18	0.00	0.00	0.00	0.00	0	0	0	0	0.00
19	0.00	0.00	0.00	0.00	0	0	0	0	0.00
20	0.00	0.00	0.00	0.00	0	0	0	0	0.00
21	0.00	0.00	0.00	0.00	0	0	0	0	0.00
22	0.00	0.00	0.00	0.00	0	0	0	0	0.00
23	0.00	0.00	0.00	0.00	0	0	0	0	0.00
24	0.00	0.00	0.00	0.00	0	0	0	0	0.00
25	0.00	0.00	0.00	0.00	0	0	0	0	0.00
26	0.00	0.00	0.00	0.00	0	0	0	0	0.00
27	0.00	0.00	0.00	0.00	0	0	0	0	0.00
28	0.00	0.00	0.00	0.00	0	0	0	0	0.00
29	0.00	0.00	0.00	0.00	0	0	0	0	0.00
30	0.00	0.00	0.00	0.00	0	0	0	0	0.00
	8.45	5.64	10.23	14.11	0.7	0	0	2.3	38.43

TABLE ___

LAWMA'S REPLACEMENT SOURCES FROM FORT LYON CANAL THROUGH AUGMENTATION STATIONS

Month: March **Year:** 2018

		FORT LYON CANAL SHARES DELIVERED THROUGH AUGMENTATION STATIONS									TRANSIT LOSS CALCULATIONS								Total CU Credits Delivered to the Arkansas River										
		Above John Martin Dam				Below John Martin Dam				Total	Above John Martin Dam				Below John Martin Dam						To Offset		22.5		To Offset	In-State	Below John Martin Dam		
		ARF049CO	ARF125CO	ARF126CO	ARF145CO	ARF160CO	ARF166CO	ARF181CO	ARF182CO		ARF049CO	ARF125CO	ARF126CO	ARF145CO	ARF160CO	ARF166CO	ARF181CO	ARF182CO	Reach 9	Reach 10	Account		Miles		Account	Repl.	Reach 11	Reach 12	Reach 13
	Fort Lyon Canal Diversions	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Yes or	Arkansas River @ Las Animas	Reach 9 TL to Offset Account	Reach 9 TL to Offset Account	Volume	Volume	Flow	Flow	Flow
Day	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	No	(cfs)	(% / mile)	(cfs)	(af)	(af)	(cfs)	(cfs)	(cfs)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		154.0	0.1%	0.0	0.0	0.0	0.0	0.0	0.0
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		152.0	0.1%	0.0	0.0	0.0	0.0	0.0	0.0
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		298.0	0.1%	0.0	0.0	0.0	0.0	0.0	0.0
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		544.0	0.1%	0.0	0.0	0.0	0.0	0.0	0.0
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		337.0	0.1%	0.0	0.0	0.0	0.0	0.0	0.0
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		159.0	0.1%	0.0	0.0	0.0	0.0	0.0	0.0
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		164.0	0.1%	0.0	0.0	0.0	0.0	0.0	0.0
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		159.0	0.1%	0.0	0.0	0.0	0.0	0.0	0.0
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		157.0	0.1%	0.0	0.0	0.0	0.0	0.0	0.0
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		146.0	0.1%	0.0	0.0	0.0	0.0	0.0	0.0
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		143.0	0.1%	0.0	0.0	0.0	0.0	0.0	0.0
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		140.0	0.1%	0.0	0.0	0.0	0.0	0.0	0.0
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		145.0	0.1%	0.0	0.0	0.0	0.0	0.0	0.0
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		147.0	0.1%	0.0	0.0	0.0	0.0	0.0	0.0
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		146.0	0.1%	0.0	0.0	0.0	0.0	0.0	0.0
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		304.0	0.1%	0.0	0.0	0.0	0.0	0.0	0.0
17	128.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Yes	396.0	0.1%	0.0	0.0	0.0	0.0	0.0	0.0
18	168.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Yes	316.0	0.1%	0.0	0.0	0.0	0.0	0.0	0.0
19	147.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Yes	264.0	0.1%	0.0	0.0	0.0	0.0	0.0	0.0
20	143.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Yes	231.0	0.1%	0.0	0.0	0.0	0.0	0.0	0.0
21	167.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Yes	208.0	0.1%	0.0	0.0	0.0	0.0	0.0	0.0
22	286.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Yes	164.0	0.1%	0.0	0.0	0.0	0.0	0.0	0.0
23	313.00	8.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.72	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	0.0	Yes	136.0	0.1%	0.1	7.1	0.0	0.0	0.0	0.0
24	309.00	17.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.30	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	0.0	Yes	123.0	0.1%	0.2	14.2	0.0	0.0	0.0	0.0
25	309.00	8.87	0.00	0.00	0.00	0.00	0.00	0.00	0.80	9.67	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	0.0	Yes	81.5	0.1%	0.1	7.3	0.0	0.0	0.0	0.4
26	304.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.68	1.68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Yes	73.2	0.1%	0.0	0.0	0.0	0.0	0.0	0.8
27	267.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Yes	62.8	0.1%	0.0	0.0	0.0	0.0	0.0	0.3
28	253.00	8.73	0.00	2.53	0.00	0.00	0.00	0.00	0.00	11.26	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	1.1	Yes	48.3	0.1%	0.1	9.3	0.0	0.0	0.0	0.0
29	233.00	12.30	0.00	6.59	0.00	0.00	0.00	0.00	0.00	18.89	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	2.8	Yes	50.7	0.1%	0.1	15.6	0.0	0.0	0.0	0.0
30	193.00	4.33	1.64	6.52	0.00	0.00	0.00	0.00	0.00	12.49	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.6	Yes	49.3	0.1%	0.0	10.6	0.0	0.0	0.0	0.0
31	195.00	0.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	Yes	41.3	0.1%	0.0	4.0	0.0	0.0	0.0	0.0
cfsd	3,415.0	60.3	5.6	15.6	0.0	0.0	0.0	0.0	3.2	84.7	1.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	25.5	9.4		5,540.1		0.6			0.0	0.0	1.6
ac-ft	6,773.7	119.5	11.2	31.0	0.0	0.0	0.0	0.0	6.3	168.0	2.1	0.2	0.1	0.0	0.0	0.0	0.0	0.1	50.5	18.7		10,988.8		1.1	68.0	0.0	0.0	0.0	3.1
CU CREDITS (ac-ft)																			50.5	18.7					68.0	0.0	0.0	0.0	3.1
Monthly CU Factor		43.0%	50.7%	42.3%	52.9%	53.9%	51.7%	50.8%	50.5%																				

Monthly FHG Delivery	168.0
Cumulative Annual FHG Delivery	168.0
Maximum Monthly FHG Delivery Limit	1,597.4 FALSE Exceeds Limit
Cumulative Annual FHG Delivery Limit	20,029.4 FALSE Exceeds Limit

	Into JMR				To LAWMA Bucket (6700999)				
	ARF049CO	ARF125CO	ARF126CO	ARF145CO	ARF160CO	ARF166CO	ARF181CO	ARF182CO	Total Del to JMR
1	0.00	0.00	0.00	0.00	0	0	0	0	0.00
2	0.00	0.00	0.00	0.00	0	0	0	0	0.00
3	0.00	0.00	0.00	0.00	0	0	0	0	0.00
4	0.00	0.00	0.00	0.00	0	0	0	0	0.00
5	0.00	0.00	0.00	0.00	0	0	0	0	0.00
6	0.00	0.00	0.00	0.00	0	0	0	0	0.00
7	0.00	0.00	0.00	0.00	0	0	0	0	0.00
8	0.00	0.00	0.00	0.00	0	0	0	0	0.00
9	0.00	0.00	0.00	0.00	0	0	0	0	0.00
10	0.00	0.00	0.00	0.00	0	0	0	0	0.00
11	0.00	0.00	0.00	0.00	0	0	0	0	0.00
12	0.00	0.00	0.00	0.00	0	0	0	0	0.00
13	0.00	0.00	0.00	0.00	0	0	0	0	0.00
14	0.00	0.00	0.00	0.00	0	0	0	0	0.00
15	0.00	0.00	0.00	0.00	0	0	0	0	0.00
16	0.00	0.00	0.00	0.00	0	0	0	0	0.00
17	0.00	0.00	0.00	0.00	0	0	0	0	0.00
18	0.00	0.00	0.00	0.00	0	0	0	0	0.00
19	0.00	0.00	0.00	0.00	0	0	0	0	0.00
20	0.00	0.00	0.00	0.00	0	0	0	0	0.00
21	0.00	0.00	0.00	0.00	0	0	0	0	0.00
22	0.00	0.00	0.00	0.00	0	0	0	0	0.00
23	7.14	0.00	0.00	0.00	0	0	0	0	7.14
24	14.17	0.00	0.00	0.00	0	0	0	0	14.17
25	7.27	0.00	0.00	0.00	0	0	0	0.4	7.27
26	0.00	0.00	0.00	0.00	0	0	0	0.8	0.00
27	0.00	0.00	0.00	0.00	0	0	0	0.3	0.00
28	7.15	0.00	2.07	0.00	0	0	0	0	9.22
29	10.08	0.00	5.39	0.00	0	0	0	0	15.47
30	3.55	1.59	5.33	0.00	0	0	0	0	10.47
31	0.00	3.88	0.00	0.00	0	0	0	0	3.88

TABLE ___

LAWMA'S REPLACEMENT SOURCES FROM FORT LYON CANAL THROUGH AUGMENTATION STATIONS

Month: April **Year: 2018**

		FORT LYON CANAL SHARES DELIVERED THROUGH AUGMENTATION STATIONS									TRANSIT LOSS CALCULATIONS to ARKANSAS RIVER									Total CU Credits Delivered to the Arkansas River										
		Above John Martin Dam				Below John Martin Dam				Total	Above John Martin Dam				Below John Martin Dam						To Offset		22.5		To Offset	In-State	Below John Martin Dam		
		ARF049CO	ARF125CO	ARF126CO	ARF145CO	ARF160CO	ARF166CO	ARF181CO	ARF182CO		ARF049CO	ARF125CO	ARF126CO	ARF145CO	ARF160CO	ARF166CO	ARF181CO	ARF182CO	Reach 9	Reach 10	Account		Miles		Account	Repl.	Reach 11	Reach 12	Reach 13
	Fort Lyon Canal Diversions	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Yes or	Arkansas River @ Las Animas	Reach 9 TL to Offset Account	Reach 9 TL to Offset Account	Volume	Volume	Flow	Flow	Flow
Day	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	No	(cfs)	(% / mile)	(cfs)	(af)	(af)	(cfs)	(cfs)	(cfs)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)
1	270.00	0.00	2.11	0.00	0.00	0.00	0.00	0.00	0.59	2.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	Yes	40.2	0.1%	0.0	3.2	0.0	0.0	0.0	0.4
2	326.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.82	1.82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Yes	36.5	0.1%	0.0	0.0	0.0	0.0	0.0	1.4
3	330.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.23	1.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Yes	34.5	0.1%	0.0	0.0	0.0	0.0	0.0	0.9
4	312.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Yes	32.9	0.1%	0.0	0.0	0.0	0.0	0.0	0.0
5	261.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Yes	33.4	0.1%	0.0	0.0	0.0	0.0	0.0	0.0
6	249.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Yes	32.6	0.1%	0.0	0.0	0.0	0.0	0.0	0.0
7	242.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Yes	32.3	0.1%	0.0	0.0	0.0	0.0	0.0	0.0
8	181.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Yes	31.8	0.1%	0.0	0.0	0.0	0.0	0.0	0.0
9	196.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Yes	31.6	0.1%	0.0	0.0	0.0	0.0	0.0	0.0
10	260.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Yes	30.1	0.1%	0.0	0.0	0.0	0.0	0.0	0.0
11	311.0	5.26	0.00	3.08	0.00	0.00	0.00	0.00	0.00	8.34	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	2.3	Yes	32.9	0.1%	0.1	12.0	0.0	0.0	0.0	0.0
12	338.0	12.50	2.10	8.48	0.00	0.00	0.00	0.00	0.00	23.08	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.1	7.9	Yes	39.4	0.1%	0.2	33.3	0.0	0.0	0.0	0.0
13	292.0	4.25	4.12	6.81	0.00	0.00	0.00	0.00	0.00	15.18	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	3.1	8.2	Yes	43.8	0.1%	0.1	22.3	0.0	0.0	0.0	0.0
14	300.0	0.00	2.13	0.00	0.00	0.00	0.00	0.00	0.00	2.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	Yes	35.7	0.1%	0.0	3.3	0.0	0.0	0.0	0.0
15	284.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Yes	33.2	0.1%	0.0	0.0	0.0	0.0	0.0	0.0
16	276.0	0.00	0.00	0.00	0.00	0.00	0.00	2.38	0.83	3.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Yes	31.1	0.1%	0.0	0.0	0.0	0.0	1.8	0.6
17	266.0	0.00	0.00	0.00	0.00	0.55	0.00	1.59	2.03	4.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	Yes	30.2	0.1%	0.0	0.0	0.0	0.4	1.2	1.5
18	241.0	0.00	0.00	0.00	0.00	0.69	0.00	0.00	1.47	2.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Yes	30.2	0.1%	0.0	0.0	0.0	0.5	0.0	1.1
19	255.0	0.00	0.00	0.00	0.00	0.88	0.00	0.00	0.00	0.88	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Yes	30.7	0.1%	0.0	0.0	0.0	0.7	0.0	0.0
20	299.0	0.00	0.00	0.00	0.00	2.02	0.00	0.00	0.00	2.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Yes	30.0	0.1%	0.0	0.0	0.0	1.5	0.0	0.0
21	295.0	0.00	0.00	0.00	0.00	1.92	0.00	0.00	0.00	1.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Yes	27.8	0.1%	0.0	0.0	0.0	1.5	0.0	0.0
22	269.0	0.00	0.00	0.00	0.00	1.86	0.00	0.00	0.00	1.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Yes	27.8	0.1%	0.0	0.0	0.0	1.4	0.0	0.0
23	277.0	0.00	0.00	0.00	0.00	1.80	0.00	0.00	0.00	1.80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Yes	28.7	0.1%	0.0	0.0	0.0	1.4	0.0	0.0
24	302.0	0.00	0.00	0.00	0.00	1.70	0.00	0.00	0.00	1.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Yes	27.6	0.1%	0.0	0.0	0.0	1.3	0.0	0.0
25	299.0	0.00	0.00	0.00	0.00	1.25	0.00	0.00	0.00	1.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Yes	23.7	0.1%	0.0	0.0	0.0	0.9	0.0	0.0
26	293.0	0.00	0.00	0.00	0.00	1.17	0.00	0.00	0.00	1.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Yes	25.2	0.1%	0.0	0.0	0.0	0.9	0.0	0.0
27	276.0	2.62	0.00	0.00	0.00	1.12	0.00	0.00	0.00	3.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0	Yes	25.6	0.1%	0.0	3.7	0.0	0.8	0.0	0.0
28	269.0	6.79	0.00	0.00	0.00	1.11	0.00	0.00	0.00	7.90	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	Yes	32.3	0.1%	0.1	9.6	0.0	0.8	0.0	0.0
29	263.0	6.65	0.00	0.00	0.00	1.03	0.00	0.00	0.00	7.68	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	0.0	Yes	36.6	0.1%	0.1	9.4	0.0	0.8	0.0	0.0
30	259.0	9.89	0.00	0.00	0.00	1.00	0.00	0.00	0.00	10.89	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	0.0	Yes	50.5	0.1%	0.2	14.0	0.0	0.8	0.0	0.0
31																													
cfsd	8,291.0	48.0	10.5	18.4	0.0	18.1	0.0	4.0	8.0	106.8	0.8	0.2	0.1	0.0	0.4	0.0	0.0	0.2	35.1	21.6		978.9		0.8			13.7	3.1	6.0
ac-ft	16,445.2	95.1	20.7	36.4	0.0	35.9	0.0	7.9	15.8	211.9	1.7	0.3	0.1	0.0	0.8	0.0	0.0	0.4	69.5	42.9		1,941.6		1.6	110.9	0.0	27.2	6.1	11.9
CU CREDITS (ac-ft)																			69.5	42.9					110.9	0.0	27.2	6.1	11.9
Monthly CU Factor		74.4%	78.2%	74.0%	78.2%	77.6%	77.2%	77.4%	77.1%																				

Monthly FHG Delivery	211.9	
Cumulative Annual FHG Delivery	379.9	
Maximum Monthly FHG Delivery Limit	2,155.9	FALSE Exceeds Limit
Cumulative Annual FHG Delivery Limit	20,029.4	FALSE Exceeds Limit

	Into JMR				To LAWMA Bucket (6700999)				
	ARF049CO	ARF125CO	ARF126CO	ARF145CO	ARF160CO	ARF166CO	ARF181CO	ARF182CO	Total Del to JMR
1	0.00	3.15	0.00	0.00	0	0	0	0.4	3.15
2	0.00	0.00	0.00	0.00	0	0	0	1.4	0.00
3	0.00	0.00	0.00	0.00	0	0	0	0.9	0.00
4	0.00	0.00	0.00	0.00	0	0	0	0	0.00
5	0.00	0.00	0.00	0.00	0	0	0	0	0.00
6	0.00	0.00	0.00	0.00	0	0	0	0	0.00
7	0.00	0.00	0.00	0.00	0	0	0	0	0.00
8	0.00	0.00	0.00	0.00	0	0	0	0	0.00
9	0.00	0.00	0.00	0.00	0	0	0	0	0.00
10	0.00	0.00	0.00	0.00	0	0	0	0	0.00
11	7.46	0.00	4.41	0.00	0	0	0	0	11.87
12	17.72	3.14	12.13	0.00	0	0	0	0	32.99
13	6.02	6.16	9.74	0.00	0	0	0	0	21.92
14	0.00	3.18	0.00	0.00	0	0	0	0	3.18
15	0.00	0.00	0.00	0.00	0	0	0	0	0.00
16	0.00	0.00	0.00	0.00	0	0	1.84	0.6	0.00
17	0.00	0.00	0.00	0.00	0.4	0	1.23	1.5	0.00
18	0.00	0.00	0.00	0.00	0.5	0	0	1.1	0.00
19	0.00	0.00	0.00	0.00	0.7	0	0	0	0.00
20	0.00	0.00	0.00	0.00	1.5	0	0	0	0.00
21	0.00	0.00	0.00	0.00	1.5	0	0	0	0.00
22	0.00	0.00	0.00	0.00	1.4	0	0	0	0.00
23	0.00	0.00	0.00	0.00	1.4	0	0	0	0.00
24	0.00	0.00	0.00	0.00	1.3	0	0	0	0.00
25	0.00	0.00	0.00	0.00	0.9	0	0	0	0.00
26	0.00	0.00	0.00	0.00	0.9	0	0	0	0.00
27	3.71	0.00	0.00	0.00	0.8	0	0	0	3.71
28	9.62	0.00	0.00	0.00	0.8	0	0	0	9.62
29	9.43	0.00	0.00	0.00	0.8	0	0	0	9.43
30	14.02	0.00	0.00	0.00	0.8	0	0	0	14.02
									109.89

TABLE ___

LAWMA'S REPLACEMENT SOURCES FROM FORT LYON CANAL THROUGH AUGMENTATION STATIONS

Month: May **Year:** 2018

		FORT LYON CANAL SHARES DELIVERED THROUGH AUGMENTATION STATIONS									TRANSIT LOSS CALCULATIONS								Total CU Credits Delivered to the Arkansas River										
		Above John Martin Dam				Below John Martin Dam				Total	Above John Martin Dam				Below John Martin Dam						To Offset		22.5		To Offset	In-State	Below John Martin Dam		
		ARF049CO	ARF125CO	ARF126CO	ARF145CO	ARF160CO	ARF166CO	ARF181CO	ARF182CO		ARF049CO	ARF125CO	ARF126CO	ARF145CO	ARF160CO	ARF166CO	ARF181CO	ARF182CO	Reach 9	Reach 10	Account		Miles		Account	Repl.	Reach 11	Reach 12	Reach 13
	Fort Lyon Canal Diversions	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Yes or	Arkansas River @ Las Animas	Reach 9 TL to Offset Account	Reach 9 TL to Offset Account	Volume	Volume	Flow	Flow	Flow
Day	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	No	(cfs)	(% / mile)	(cfs)	(af)	(af)	(cfs)	(cfs)	(cfs)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)
1	264.0	6.93	0.00	0.00	0.00	1.66	0.00	0.00	0.00	8.59	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	0.0	Yes	51.0	0.1%	0.1	10.2	0.0	1.3	0.0	0.0
2	264.0	6.04	1.98	5.11	0.00	2.10	0.00	0.00	0.00	15.23	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	5.5	Yes	48.9	0.1%	0.1	19.8	0.0	1.6	0.0	0.0
3	264.0	6.20	4.29	8.45	0.00	2.06	0.00	0.00	0.00	21.00	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	4.7	9.9	Yes	122.0	0.1%	0.1	28.8	0.0	1.6	0.0	0.0
4	265.0	0.00	2.24	3.10	0.00	1.63	0.00	0.00	0.00	6.97	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	Yes	257.0	0.1%	0.0	8.3	0.0	1.3	0.0	0.0
5	262.0	0.00	0.00	0.00	0.00	1.06	0.00	0.00	0.00	1.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Yes	279.0	0.1%	0.0	0.0	0.0	0.8	0.0	0.0
6	262.0	0.00	0.00	0.00	0.00	0.00	1.53	0.00	0.00	1.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Yes	246.0	0.1%	0.0	0.0	0.0	0.0	1.2	0.0
7	263.0	0.00	0.00	0.00	0.00	1.04	1.27	1.16	0.00	3.47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Yes	192.0	0.1%	0.0	0.0	0.0	0.8	1.9	0.0
8	263.0	0.00	0.00	0.00	0.00	2.77	0.00	4.24	1.52	8.53	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	Yes	140.0	0.1%	0.0	0.0	0.0	2.1	3.4	1.2
9	263.0	0.00	0.00	0.00	0.00	2.46	0.00	2.73	2.02	7.21	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	Yes	129.0	0.1%	0.0	0.0	0.0	1.9	2.2	1.6
10	263.0	0.00	0.00	0.00	0.00	1.36	0.00	0.00	0.79	2.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Yes	130.0	0.1%	0.0	0.0	0.0	1.1	0.0	0.6
11	264.0	0.00	0.00	0.00	0.00	1.27	0.00	0.00	0.00	1.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Yes	137.0	0.1%	0.0	0.0	0.0	1.0	0.0	0.0
12	263.0	0.00	0.00	0.00	0.00	1.18	0.00	0.00	0.00	1.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Yes	215.0	0.1%	0.0	0.0	0.0	0.9	0.0	0.0
13	263.0	0.00	0.00	0.00	0.00	1.07	0.00	0.00	0.00	1.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Yes	303.0	0.1%	0.0	0.0	0.0	0.8	0.0	0.0
14	263.0	0.00	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.97	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Yes	314.0	0.1%	0.0	0.0	0.0	0.8	0.0	0.0
15	262.0	15.60	0.00	0.00	0.00	0.92	0.00	0.00	0.00	16.52	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.8	0.0	Yes	326.0	0.1%	0.3	23.0	0.0	0.7	0.0	0.0
16	313.0	24.20	0.00	0.00	0.00	0.86	0.00	0.00	0.00	25.06	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.4	0.0	Yes	346.0	0.1%	0.4	35.6	0.0	0.7	0.0	0.0
17	315.0	10.10	3.17	5.33	0.00	0.52	0.00	0.00	0.00	19.12	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	6.6	Yes	256.0	0.1%	0.2	28.0	0.0	0.4	0.0	0.0
18	278.0	0.00	4.63	8.43	0.00	0.00	0.00	0.00	0.00	13.06	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.2	Yes	208.0	0.1%	0.0	20.2	0.0	0.0	0.0	0.0
19	321.0	0.00	1.74	3.25	0.00	0.00	1.26	0.00	0.00	6.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	Yes	193.0	0.1%	0.0	7.7	0.0	0.0	1.0	0.0
20	531.0	0.00	0.00	0.00	0.00	0.83	3.53	1.74	0.00	6.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Yes	183.0	0.1%	0.0	0.0	0.0	0.6	4.2	0.0
21	771.0	0.00	0.00	0.00	10.00	1.25	1.87	3.40	1.34	17.86	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	Yes	231.0	0.1%	0.0	15.9	0.0	1.0	4.2	1.0
22	896.0	16.10	0.00	0.00	0.83	1.81	0.00	1.29	1.70	21.73	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.2	0.7	Yes	445.0	0.1%	0.3	25.0	0.0	1.4	1.0	1.3
23	610.0	22.80	0.00	0.00	0.00	1.33	0.00	0.00	0.62	24.75	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.3	0.0	Yes	364.0	0.1%	0.4	33.5	0.0	1.0	0.0	0.5
24	702.0	14.40	0.00	0.00	0.00	1.24	0.00	0.00	0.00	15.64	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.9	0.0	Yes	396.0	0.1%	0.2	21.2	0.0	1.0	0.0	0.0
25	725.0	0.00	3.14	5.16	0.00	1.51	1.02	0.00	0.00	10.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	Yes	375.0	0.1%	0.0	12.8	0.0	1.2	0.8	0.0
26	523.0	0.00	4.82	8.35	5.50	4.00	3.22	1.42	0.00	27.31	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	14.7	Yes	292.0	0.1%	0.0	29.1	0.0	3.1	3.7	0.0
27	434.0	0.00	1.70	3.34	6.66	3.63	1.81	3.97	0.85	21.96	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	9.3	Yes	280.0	0.1%	0.0	18.4	0.0	2.8	4.6	0.7
28	383.0	0.00	0.00	0.00	1.02	2.10	0.00	2.80	1.75	7.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	Yes	262.0	0.1%	0.0	1.6	0.0	1.6	2.2	1.4
29	322.0	0.00	0.00	0.00	0.00	1.96	0.00	0.00	1.24	3.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Yes	257.0	0.1%	0.0	0.0	0.0	1.5	0.0	1.0
30	203.0	0.00	0.00	0.00	0.00	1.17	0.00	0.00	0.00	1.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Yes	264.0	0.1%	0.0	0.0	0.0	0.9	0.0	0.0
31	290.0	7.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.18	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	0.0	Yes	267.0	0.1%	0.1	10.6	0.0	0.0	0.0	0.0
cfsd	11,565.0	129.6	27.7	50.5	24.0	43.8	15.5	22.8	11.8	325.6	2.2	0.4	0.2	0.1	1.0	0.1	0.1	0.3	98.3	80.2		7,508.9		2.2			33.8	30.3	9.1
ac-ft	22,939.2	257.0	55.0	100.2	47.6	86.8	30.8	45.1	23.5	645.9	4.5	0.8	0.3	0.1	1.9	0.2	0.2	0.6	194.9	159.1		14,893.9		4.4	349.6	0.0	67.1	60.0	18.1
CU CREDITS (ac-ft)																			194.9	159.1					349.6	0.0	67.1	60.0	18.1
Monthly CU Factor		77.2%	80.9%	77.2%	80.3%	79.1%	79.1%	79.7%	79.3%																				

Monthly FHG Delivery	645.9
Cumulative Annual FHG Delivery	1,025.8
Maximum Monthly FHG Delivery Limit	2,868.0 FALSE Exceeds Limit
Cumulative Annual FHG Delivery Limit	20,029.4 FALSE Exceeds Limit

	Into JMR				To LAWMA Bucket (6700999)				
	ARF049CO	ARF125CO	ARF126CO	ARF145CO	ARF160CO	ARF166CO	ARF181CO	ARF182CO	Total Del to JMR
1	10.19	0.00	0.00	0.00	1.3	0	0	0	10.19
2	8.88	3.06	7.62	0.00	1.6	0	0	0	19.56
3	9.12	6.63	12.61	0.00	1.6	0	0	0	28.36
4	0.00	3.46	4.63	0.00	1.3	0	0	0	8.09
5	0.00	0.00	0.00	0.00	0.8	0	0	0	0.00
6	0.00	0.00	0.00	0.00	0	1.2	0	0	0.00
7	0.00	0.00	0.00	0.00	0.8	1	0.92	0	0.00
8	0.00	0.00	0.00	0.00	2.1	0	3.37	1.2	0.00
9	0.00	0.00	0.00	0.00	1.9	0	2.17	1.6	0.00
10	0.00	0.00	0.00	0.00	1.1	0	0	0.6	0.00
11	0.00	0.00	0.00	0.00	1	0	0	0	0.00
12	0.00	0.00	0.00	0.00	0.9	0	0	0	0.00
13	0.00	0.00	0.00	0.00	0.8	0	0	0	0.00
14	0.00	0.00	0.00	0.00	0.8	0	0	0	0.00
15	22.95	0.00	0.00	0.00	0.7	0	0	0	22.95
16	35.59	0.00	0.00	0.00	0.7	0	0	0	35.59
17	14.86	4.90	7.95	0.00	0.4	0	0	0	27.71
18	0.00	7.16	12.58	0.00	0	0	0	0	19.74
19	0.00	2.69	4.85	0.00	0	0.99	0	0	7.54
20	0.00	0.00	0.00	0.00	0.6	2.78	1.38	0	0.00
21	0.00	0.00	0.00	15.53	1	1.47	2.7	1	15.53
22	23.68	0.00	0.00	1.29	1.4	0	1.02	1.3	24.97
23	33.54	0.00	0.00	0.00	1	0	0	0.5	33.54
24	21.18	0.00	0.00	0.00	1	0	0	0	21.18
25	0.00	4.85	7.70	0.00	1.2	0.8	0	0	12.55
26	0.00	7.45	12.46	8.54	3.1	2.53	1.13	0	28.45
27	0.00	2.63	4.98	10.34	2.8	1.42	3.15	0.7	17.95
28	0.00	0.00	0.00	1.58	1.6	0	2.22	1.4	1.58
29	0.00	0.00	0.00	0.00	1.5	0	0	1	0.00
30	0.00	0.00	0.00	0.00	0.9	0	0	0	0.00
31	10.56	0.00	0.00	0.00	0	0	0	0	10.56
									346.04

TABLE ___

LAWMA'S REPLACEMENT SOURCES FROM FORT LYON CANAL THROUGH AUGMENTATION STATIONS

Month: June **Year: 2018**

		FORT LYON CANAL SHARES DELIVERED THROUGH AUGMENTATION STATIONS									TRANSIT LOSS CALCULATIONS								Total CU Credits Delivered to the Arkansas River										
		Above John Martin Dam				Below John Martin Dam				Total	Above John Martin Dam				Below John Martin Dam						To Offset		22.5		To Offset	In-State	Below John Martin Dam		
		ARF049CO	ARF125CO	ARF126CO	ARF145CO	ARF160CO	ARF166CO	ARF181CO	ARF182CO		ARF049CO	ARF125CO	ARF126CO	ARF145CO	ARF160CO	ARF166CO	ARF181CO	ARF182CO	Reach 9	Reach 10	Account		Miles		Account	Repl.	Reach 11	Reach 12	Reach 13
	Fort Lyon Canal Diversions	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Yes or	Arkansas River @ Las Animas	Reach 9 TL to Offset Account	Reach 9 TL to Offset Account	Volume	Volume	Flow	Flow	Flow
Day	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	No	(cfs)	(% / mile)	(cfs)	(af)	(af)	(cfs)	(cfs)	(cfs)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)
1	212.0	26.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26.50	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.7	0.0	Yes	244.0	0.1%	0.5	40.2	0.0	0.0	0.0	0.0
2	172.0	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.10	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.4	0.0	Yes	282.0	0.1%	0.3	25.9	0.0	0.0	0.0	0.0
3	171.0	0.00	2.00	3.90	0.00	0.00	0.00	0.00	0.00	5.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	Tes	319.0	0.1%	0.0	0.0	9.4	0.0	0.0	0.0
4	165.0	0.00	4.33	8.71	2.22	0.00	0.00	0.00	0.00	15.26	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.3	Yes	330.0	0.1%	0.0	24.4	0.0	0.0	0.0	0.0
5	202.0	0.00	2.50	5.44	0.00	0.00	0.00	0.00	0.00	7.94	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	Yes	320.0	0.1%	0.0	12.7	0.0	0.0	0.0	0.0
6	582.0	0.00	0.00	0.00	3.59	2.06	0.99	1.97	0.00	8.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	Yes	442.0	0.1%	0.0	5.8	0.0	1.6	2.4	0.0
7	753.0	0.00	0.00	0.00	10.10	4.14	2.40	3.90	1.31	21.85	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	8.3	Yes	382.0	0.1%	0.0	16.4	0.0	3.3	5.1	1.0
8	759.0	0.00	0.00	0.00	7.36	2.12	1.66	2.07	2.00	15.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	6.0	Yes	218.0	0.1%	0.0	11.9	0.0	1.7	3.0	1.6
9	753.0	6.93	0.00	0.00	0.00	0.67	0.00	0.00	0.00	7.60	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	0.0	Yes	160.0	0.1%	0.1	10.5	0.0	0.5	0.0	0.0
10	769.0	22.50	0.00	0.00	0.00	0.70	0.00	0.00	0.00	23.20	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.6	0.0	Yes	120.0	0.1%	0.4	34.1	0.0	0.6	0.0	0.0
11	760.0	17.80	0.96	0.00	0.00	2.36	1.65	0.00	0.00	22.77	0.3	0.0	0.0	0.0	0.1	0.0	0.0	0.0	13.9	0.8	Yes	187.0	0.1%	0.3	28.6	0.0	1.9	1.3	0.0
12	867.0	0.00	4.32	4.99	2.29	3.34	3.23	0.00	0.00	18.17	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	9.4	Yes	577.0	0.1%	0.0	18.6	0.0	2.6	2.6	0.0
13	934.0	7.11	3.67	8.68	11.10	1.71	1.25	1.61	1.00	36.13	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	5.6	19.0	Yes	1000.0	0.1%	0.1	48.5	0.0	1.3	2.3	0.8
14	929.0	23.20	0.00	3.97	6.97	0.84	0.00	3.64	1.74	40.36	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.1	8.9	Yes	868.0	0.1%	0.4	52.8	0.0	0.7	3.0	1.4
15	930.0	16.70	0.00	0.00	0.00	1.05	1.52	2.28	0.86	22.41	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.1	0.0	Yes	820.0	0.1%	0.3	25.3	0.0	0.8	3.1	0.7
16	931.0	0.00	2.92	8.19	4.49	2.88	3.14	0.00	0.00	21.62	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	12.6	Yes	1150.0	0.1%	0.0	25.0	0.0	2.3	2.5	0.0
17	930.0	7.55	4.38	8.96	12.10	2.90	1.22	1.73	1.20	40.04	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.0	5.9	20.6	Yes	1370.0	0.1%	0.1	52.3	0.0	2.3	2.4	0.9
18	947.0	24.50	1.35	8.96	7.30	3.08	2.60	4.78	2.16	54.73	0.4	0.0	0.0	0.0	0.1	0.0	0.0	0.1	19.2	14.2	Yes	1720.0	0.1%	0.4	65.3	0.0	2.4	6.0	1.7
19	926.0	18.60	0.00	8.96	0.00	5.98	6.48	3.11	1.07	44.20	0.3	0.0	0.0	0.0	0.1	0.0	0.0	0.0	14.5	7.1	Yes	1690.0	0.1%	0.3	42.4	0.0	4.7	7.7	0.8
20	940.0	0.00	0.00	3.08	0.00	3.35	4.19	2.57	0.00	13.19	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	2.5	Yes	1820.0	0.1%	0.0	4.9	0.0	2.6	5.5	0.0
21	1020.0	7.60	0.00	0.00	3.03	0.00	0.00	6.78	0.00	17.41	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	2.5	Yes	1160.0	0.1%	0.1	16.4	0.0	0.0	5.5	0.0
22	1040.0	23.90	1.80	0.00	9.99	0.00	0.00	4.45	1.90	42.04	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.7	9.6	Yes	1250.0	0.1%	0.4	55.4	0.0	0.0	3.6	1.5
23	1040.0	23.80	3.61	0.00	5.93	0.00	2.29	0.00	2.21	37.84	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.1	18.6	7.8	Yes	1400.0	0.1%	0.4	51.6	0.0	0.0	1.8	1.7
24	1040.0	23.40	2.29	4.26	0.00	1.45	4.22	0.00	0.67	36.29	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.3	5.3	Yes	1550.0	0.1%	0.4	45.9	0.0	1.1	3.4	0.5
25	1030.0	20.20	0.00	8.27	0.00	4.72	1.73	2.26	0.00	37.18	0.4	0.0	0.0	0.0	0.1	0.0	0.0	0.0	15.8	6.6	Yes	1790.0	0.1%	0.4	43.7	0.0	3.7	3.2	0.0
26	997.0	0.00	0.00	8.42	1.94	3.10	0.00	5.94	0.00	19.40	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	8.3	Yes	1980.0	0.1%	0.0	16.5	0.0	2.4	4.8	0.0
27	826.0	7.75	0.00	8.27	9.79	0.00	0.00	3.49	1.33	30.63	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	14.6	Yes	1280.0	0.1%	0.1	40.7	0.0	0.0	2.8	1.1
28	760.0	23.10	1.99	4.65	7.37	0.00	0.00	0.00	2.42	39.53	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.1	18.1	11.4	Yes	840.0	0.1%	0.4	57.6	0.0	0.0	0.0	1.9
29	759.0	17.60	4.59	0.00	0.00	0.00	2.73	0.00	1.06	25.98	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	13.8	3.8	Yes	742.0	0.1%	0.3	34.1	0.0	0.0	2.2	0.8
30	759.0	0.00	2.79	0.00	3.79	1.76	4.88	2.80	0.00	16.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	Yes	823.0	0.1%	0.0	10.7	0.0	1.4	6.2	0.0
31																													
cfsd	22,903.0	335.8	43.5	107.7	109.4	48.2	46.2	53.4	20.9	765.1	5.8	0.6	0.3	0.3	1.1	0.3	0.2	0.5	262.7	210.8		26,834.0		5.9			38.0	80.5	16.6
ac-ft	45,428.1	666.1	86.3	213.6	216.9	95.6	91.6	105.9	41.5	1,517.6	11.6	1.2	0.7	0.5	2.1	0.5	0.4	1.0	521.0	418.1		53,225.2		11.7	918.0	9.4	75.4	159.7	32.9
CU CREDITS (ac-ft)																			521.0	418.1					918.0	9.4	75.4	159.7	32.9
Monthly CU Factor		79.6%	82.9%	79.9%	82.0%	80.6%	80.9%	81.5%	81.2%																				

Monthly FHG Delivery	1,517.6
Cumulative Annual FHG Delivery	2,543.4
Maximum Monthly FHG Delivery Limit	3,560.6 FALSE Exceeds Limit
Cumulative Annual FHG Delivery Limit	20,029.4 FALSE Exceeds Limit

	Into JMR				To LAWMA Bucket (6700999)				
	ARF049CO	ARF125CO	ARF126CO	ARF145CO	ARF160CO	ARF166CO	ARF181CO	ARF182CO	Total Del to JMR
1	40.19	0	0	0	0	0	0	0	40.19
2	25.93	0	0	0	0	0	0	0	25.93
3	0	3.17	6.02	0	0	0	0	0	9.19
4	0	6.86	13.45	3.52	0	0	0	0	23.83
5	0	3.96	8.4	0	0	0	0	0	12.36
6	0	0	0	5.69	1.6	0.8	1.6	0	5.69
7	0	0	0	16.02	3.3	1.93	3.17	1	16.02
8	0	0	0	11.67	1.7	1.34	1.68	1.6	11.67
9	10.51	0	0	0	0.5	0	0	0	10.51
10	34.12	0	0	0	0.6	0	0	0	34.12
11	26.99	1.52	0	0	1.9	1.33	0	0	28.51
12	0	6.84	7.71	3.63	2.6	2.6	0	0	18.18
13	10.78	5.81	13.4	17.61	1.3	1.01	1.31	0.8	47.6
14	35.18	0	6.13	11.06	0.7	0	2.96	1.4	52.37
15	25.33	0	0	0	0.8	1.22	1.85	0.7	25.33
16	0	4.63	12.65	7.12	2.3	2.53	0	0	24.4
17	11.45	6.94	13.84	19.19	2.3	0.98	1.4	0.9	51.42
18	37.16	2.14	13.84	11.58	2.4	2.09	3.88	1.7	64.72
19	28.21	0	13.84	0	4.7	5.21	2.53	0.8	42.05
20	0	0	4.76	0	2.6	3.37	2.09	0	4.76
21	11.53	0	0	4.81	0	0	5.51	0	16.34
22	36.25	2.85	0	15.85	0	0	3.61	1.5	54.95
23	36.09	5.72	0	9.41	0	1.84	0	1.7	51.22
24	35.49	3.63	6.58	0	1.1	3.39	0	0.5	45.7
25	30.63	0	12.77	0	3.7	1.39	1.84	0	43.4
26	0	0	13	3.08	2.4	0	4.82	0	16.08
27	11.75	0	12.77	15.53	0	0	2.83	1.1	40.05
28	35.03	3.15	7.18	11.69	0	0	0	1.9	57.05
29	26.69	7.27	0	0	0	2.2	0	0.8	33.96
30	0	4.42	0	6.01	1.4	3.93	2.27	0	10.43
31	0	0	0	0	0	0	0	0	0
	509.31	68.91	166.34	173.47					918.03

TABLE ___

LAWMA'S REPLACEMENT SOURCES FROM FORT LYON CANAL THROUGH AUGMENTATION STATIONS

Month: July **Year: 2017**

		FORT LYON CANAL SHARES DELIVERED THROUGH AUGMENTATION STATIONS									TRANSIT LOSS CALCULATIONS								Total CU Credits Delivered to the Arkansas River										
		Above John Martin Dam				Below John Martin Dam				Total	Above John Martin Dam				Below John Martin Dam						To Offset		22.5		To Offset	In-State	Below John Martin Dam		
		ARF049CO	ARF125CO	ARF126CO	ARF145CO	ARF160CO	ARF166CO	ARF181CO	ARF182CO		ARF049CO	ARF125CO	ARF126CO	ARF145CO	ARF160CO	ARF166CO	ARF181CO	ARF182CO	Reach 9	Reach 10	Account		Miles		Account	Repl.	Reach 11	Reach 12	Reach 13
	Fort Lyon Canal Diversions	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Yes or	Arkansas River @ Las Animas	Reach 9 TL to Offset Account	Reach 9 TL to Offset Account	Volume	Volume	Flow	Flow	Flow
Day	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	No	(cfs)	(% / mile)	(cfs)	(af)	(af)	(cfs)	(cfs)	(cfs)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)
1	890.0	0.00	0.00	0.00	9.29	2.56	1.88	5.51	1.21	20.45	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	7.3	Yes	938.0	0.1%	0.0	14.6	0.0	1.9	5.8	0.9
2	1000.0	0.00	0.00	0.00	8.84	2.28	0.00	2.94	0.54	14.60	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	7.0	Yes	1450.0	0.1%	0.0	13.9	0.0	1.7	2.3	0.4
3	1010.0	0.00	0.00	0.00	8.72	0.00	2.71	0.00	0.00	11.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	Yes	1710.0	0.1%	0.0	13.7	0.0	0.0	2.1	0.0
4	999.0	7.67	2.99	5.02	5.80	1.41	4.54	0.00	0.00	27.43	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	10.8	Yes	1610.0	0.1%	0.1	32.7	0.0	1.1	3.5	0.0
5	1000.0	24.10	4.68	8.13	0.00	4.23	1.41	3.37	0.00	45.92	0.4	0.1	0.0	0.0	0.1	0.0	0.0	0.0	18.2	10.0	Yes	1410.0	0.1%	0.4	55.0	0.0	3.2	3.7	0.0
6	999.0	18.00	4.60	8.18	0.00	0.61	0.00	6.68	0.00	38.07	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	13.6	10.0	Yes	1590.0	0.1%	0.3	46.1	0.0	0.5	5.2	0.0
7	998.0	0.00	4.39	7.99	0.00	0.00	0.00	3.49	1.44	17.31	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.6	Yes	1810.0	0.1%	0.0	19.1	0.0	0.0	2.7	1.1
8	999.0	8.11	1.68	3.50	0.00	0.00	0.00	0.00	2.39	15.68	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	6.1	4.0	Yes	1930.0	0.1%	0.1	19.9	0.0	0.0	0.0	1.8
9	998.0	25.80	0.00	0.00	0.00	0.00	2.89	0.00	1.13	29.82	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.4	0.0	Yes	2030.0	0.1%	0.4	37.7	0.0	0.0	2.2	0.9
10	977.0	20.60	0.00	0.00	0.00	1.99	5.55	0.00	0.00	28.14	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.5	0.0	Yes	1800.0	0.1%	0.3	30.1	0.0	1.5	4.3	0.0
11	927.0	0.00	3.16	5.56	1.34	6.00	2.55	2.65	0.00	21.26	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	7.9	Yes	1510.0	0.1%	0.0	15.6	0.0	4.6	4.1	0.0
12	836.0	0.00	4.42	7.69	7.43	4.02	0.00	5.20	1.22	29.98	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	15.3	Yes	1200.0	0.1%	0.0	30.4	0.0	3.0	4.1	0.9
13	763.0	0.00	4.71	8.12	8.67	0.00	0.00	3.09	2.05	26.64	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	16.9	Yes	1080.0	0.1%	0.0	33.4	0.0	0.0	2.4	1.6
14	763.0	0.00	4.81	8.36	9.27	0.00	3.15	0.00	0.91	26.50	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.6	Yes	927.0	0.1%	0.0	34.9	0.0	0.0	2.4	0.7
15	764.0	0.00	1.46	2.77	7.80	1.85	5.42	2.30	0.00	21.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.5	Yes	871.0	0.1%	0.0	18.8	0.0	1.4	6.0	0.0
16	764.0	16.90	0.00	0.00	0.76	6.44	2.25	5.35	0.00	31.70	0.3	0.0	0.0	0.0	0.1	0.0	0.0	0.0	12.7	0.6	Yes	911.0	0.1%	0.3	25.9	0.0	4.9	5.9	0.0
17	764.0	23.60	0.00	0.00	0.00	3.87	0.00	3.27	0.97	31.71	0.4	0.0	0.0	0.0	0.1	0.0	0.0	0.0	17.8	0.0	Yes	965.0	0.1%	0.4	34.5	0.0	2.9	2.6	0.7
18	862.0	8.67	0.00	0.00	0.00	1.61	2.84	0.00	2.31	15.43	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	6.5	0.0	Yes	952.0	0.1%	0.1	12.7	0.0	1.2	2.2	1.8
19	904.0	0.00	2.94	5.43	0.00	2.27	5.48	2.26	1.34	19.72	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	6.5	Yes	671.0	0.1%	0.0	12.9	0.0	1.7	6.0	1.0
20	774.0	0.00	5.70	7.86	0.00	3.61	2.75	5.38	0.00	25.30	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	10.6	Yes	454.0	0.1%	0.0	21.0	0.0	2.7	6.4	0.0
21	886.0	14.80	1.84	3.07	4.35	1.79	0.00	3.70	0.90	30.45	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.2	7.3	Yes	515.0	0.1%	0.3	36.0	0.0	1.4	2.9	0.7
22	937.0	24.30	0.00	0.00	7.78	0.89	1.65	0.00	2.16	36.78	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.1	18.3	6.1	Yes	930.0	0.1%	0.4	47.7	0.0	0.7	1.3	1.7
23	944.0	9.78	0.00	0.00	7.47	0.93	7.35	0.00	1.02	26.55	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.4	5.9	Yes	1050.0	0.1%	0.2	26.0	0.0	0.7	5.7	0.8
24	946.0	0.00	0.00	0.00	7.45	1.19	4.88	1.85	0.00	15.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	Yes	1030.0	0.1%	0.0	11.7	0.0	0.9	5.2	0.0
25	942.0	0.00	0.00	0.00	1.04	5.30	0.83	4.89	1.04	13.10	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.8	Yes	898.0	0.1%	0.0	1.6	0.0	4.0	4.5	0.8
26	761.0	0.00	2.87	5.22	0.00	5.25	0.64	3.63	1.87	19.48	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	6.3	Yes	663.0	0.1%	0.0	12.5	0.0	4.0	3.3	1.4
27	765.0	4.92	5.16	7.40	0.00	0.78	4.06	0.00	1.05	23.37	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	3.7	9.8	Yes	689.0	0.1%	0.1	26.6	0.0	0.6	3.2	0.8
28	761.0	22.00	1.76	2.83	0.00	2.64	6.84	0.00	0.00	36.07	0.4	0.0	0.0	0.0	0.1	0.0	0.0	0.0	16.6	3.6	Yes	609.0	0.1%	0.4	39.3	0.0	2.0	5.3	0.0
29	760.0	19.40	0.00	0.00	0.00	5.08	3.03	2.54	0.00	30.05	0.3	0.0	0.0	0.0	0.1	0.0	0.0	0.0	14.6	0.0	Yes	635.0	0.1%	0.3	28.4	0.0	3.9	4.3	0.0
30	758.0	3.65	2.59	4.01	1.01	3.68	0.00	5.05	1.40	21.39	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	2.8	5.9	Yes	585.0	0.1%	0.1	17.1	0.0	2.8	4.0	1.1
31	759.0	0.00	4.92	7.41	6.50	0.00	0.00	2.92	2.74	24.49	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	14.8	Yes	463.0	0.1%	0.0	29.3	0.0	0.0	2.3	2.1
cfsd	27,210.0	252.3	64.7	108.6	103.5	70.3	72.7	76.1	27.7	775.8	4.4	0.9	0.3	0.2	1.6	0.4	0.3	0.7	190.2	216.9		33,886.0		4.3			53.3	116.1	21.2
ac-ft	53,971.0	500.4	128.3	215.3	205.3	139.4	144.2	150.9	54.9	1,538.8	8.7	1.8	0.7	0.5	3.1	0.8	0.6	1.4	377.2	430.2		67,212.9		8.5	798.9	0.0	105.8	230.3	42.0
CU CREDITS (ac-ft)																			377.2	430.2					798.9	0.0	105.8	230.3	42.0
Monthly CU Factor		76.7%	80.5%	77.4%	79.2%	77.6%	78.1%	78.7%	78.5%																				

Monthly FHG Delivery	1,538.8
Cumulative Annual FHG Delivery	4,082.2
Maximum Monthly FHG Delivery Limit	3,853.9 FALSE Exceeds Limit
Cumulative Annual FHG Delivery Limit	20,029.4 FALSE Exceeds Limit

	Into JMR				To LAWMA Bucket (6700999)				
	ARF049CO	ARF125CO	ARF126CO	ARF145CO	ARF160CO	ARF166CO	ARF181CO	ARF182CO	Total Del to JMR
1	0	0	0	14.23	1.9	1.46	4.32	0.9	14.23
2	0	0	0	13.54	1.7	0	2.31	0.4	13.54
3	0	0	0	13.36	0	2.1	0	0	13.36
4	11.21	4.6	7.51	8.89	1.1	3.53	0	0	32.21
5	35.22	7.2	12.16	0	3.2	1.09	2.64	0	54.58
6	26.3	7.08	12.24	0	0.5	0	5.24	0	45.62
7	0	6.75	11.95	0	0	0	2.74	1.1	18.7
8	11.85	2.58	5.24	0	0	0	0	1.8	19.67
9	37.7	0	0	0	0	2.24	0	0.9	37.7
10	30.1	0	0	0	1.5	4.31	0	0	30.1
11	0	4.86	8.32	2.05	4.6	1.98	2.08	0	15.23
12	0	6.8	11.5	11.38	3	0	4.08	0.9	29.68
13	0	7.25	12.15	13.28	0	0	2.42	1.6	32.68
14	0	7.4	12.51	14.2	0	2.45	0	0.7	34.11
15	0	2.25	4.14	11.95	1.4	4.21	1.8	0	18.34
16	24.7	0	0	1.17	4.9	1.75	4.2	0	25.87
17	34.49	0	0	0	2.9	0	2.56	0.7	34.49
18	12.67	0	0	0	1.2	2.21	0	1.8	12.67
19	0	4.52	8.12	0	1.7	4.26	1.77	1	12.64
20	0	8.77	11.76	0	2.7	2.14	4.22	0	20.53
21	21.63	2.83	4.59	6.66	1.4	0	2.9	0.7	35.71
22	35.51	0	0	11.92	0.7	1.28	0	1.7	47.43
23	14.29	0	0	11.44	0.7	5.71	0	0.8	25.73
24	0	0	0	11.41	0.9	3.79	1.45	0	11.41
25	0	0	0	1.59	4	0.64	3.83	0.8	1.59
26	0	4.41	7.81	0	4	0.5	2.85	1.4	12.22
27	7.19	7.94	11.07	0	0.6	3.15	0	0.8	26.2
28	32.15	2.71	4.23	0	2	5.31	0	0	39.09
29	28.35	0	0	0	3.9	2.35	1.99	0	28.35
30	5.33	3.98	6	1.55	2.8	0	3.96	1.1	16.86
31	0	7.57	11.08	9.96	0	0	2.29	2.1	28.61
Totals	368.69	99.5	162.38	158.58					789.15

TABLE ___

LAWMA'S REPLACEMENT SOURCES FROM FORT LYON CANAL THROUGH AUGMENTATION STATIONS

Month: August **Year:** 2017

		FORT LYON CANAL SHARES DELIVERED THROUGH AUGMENTATION STATIONS									TRANSIT LOSS CALCULATIONS								Total CU Credits Delivered to the Arkansas River									
		Above John Martin Dam				Below John Martin Dam				Total	Above John Martin Dam				Below John Martin Dam						To Offset		22.5		To Offset	In-State	Below John Martin Dam		
		ARF049CO	ARF125CO	ARF126CO	ARF145CO	ARF160CO	ARF166CO	ARF181CO	ARF182CO		ARF049CO	ARF125CO	ARF126CO	ARF145CO	ARF160CO	ARF166CO	ARF181CO	ARF182CO	Reach 9	Reach 10	Account		Miles		Account	Repl.	Reach 11	Reach 12	Reach 13
	Fort Lyon Canal Diversions	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Yes or	Arkansas River @ Las Animas	Reach 9 TL to Offset Account	Reach 9 TL to Offset Account	Volume	Volume	Flow	Flow	Flow
Day	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	No	(cfs)	(% / mile)	(cfs)	(af)	(af)	(cfs)	(cfs)	(cfs)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)
1	752.0	15.80	2.19	3.60	5.83	0.00	3.95	0.00	1.51	32.88	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.3	8.7	Yes	366.0	0.1%	0.3	39.1	0.0	0.0	2.9	1.1
2	760.0	22.20	0.00	0.00	0.00	2.13	7.36	2.79	0.00	34.48	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.8	0.0	Yes	303.0	0.1%	0.4	30.7	0.0	1.5	7.5	0.0
3	767.0	8.84	0.00	0.00	0.00	2.48	3.60	4.93	0.00	19.85	0.2	0.0	0.0	0.0	0.1	0.0	0.0	0.0	6.3	0.0	Yes	322.0	0.1%	0.1	12.2	0.0	1.8	6.4	0.0
4	774.0	0.00	0.00	0.00	0.00	2.42	0.00	2.23	1.70	6.35	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	Yes	406.0	0.1%	0.0	0.0	0.0	1.7	1.7	1.2
5	757.0	0.00	1.55	1.82	0.00	0.00	0.00	0.00	2.76	6.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	2.5	Yes	541.0	0.1%	0.0	5.0	0.0	0.0	0.0	2.0
6	738.0	0.00	5.21	6.61	0.00	0.54	4.48	0.00	1.31	18.15	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.8	Yes	431.0	0.1%	0.0	17.5	0.0	0.4	3.3	1.0
7	611.0	0.00	3.72	6.45	1.48	2.17	7.75	0.00	0.00	21.57	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	Yes	348.0	0.1%	0.0	17.2	0.0	1.6	5.7	0.0
8	533.0	12.10	0.00	0.00	8.42	6.73	3.66	1.46	0.00	32.37	0.2	0.0	0.0	0.0	0.2	0.0	0.0	0.0	8.6	6.4	Yes	393.0	0.1%	0.2	29.4	0.0	4.9	3.8	0.0
9	624.0	22.10	0.00	0.00	5.52	4.59	0.00	3.74	0.00	35.95	0.4	0.0	0.0	0.0	0.1	0.0	0.0	0.0	15.8	4.2	Yes	370.0	0.1%	0.4	38.8	0.0	3.3	2.8	0.0
10	823.0	9.40	2.55	4.75	0.00	1.13	0.00	2.43	1.13	21.39	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	5.4	Yes	255.0	0.1%	0.2	23.8	0.0	0.8	1.8	0.8
11	899.0	0.00	3.99	6.88	7.20	0.00	0.00	0.00	2.58	20.65	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	13.5	Yes	207.0	0.1%	0.0	26.8	0.0	0.0	0.0	1.9
12	940.0	0.00	3.77	6.34	9.00	1.13	1.96	0.00	1.80	24.00	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.3	Yes	286.0	0.1%	0.0	28.4	0.0	0.8	1.5	1.3
13	798.0	6.18	3.44	5.91	9.17	6.35	6.42	1.84	0.00	39.31	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	4.4	13.9	Yes	224.0	0.1%	0.1	36.1	0.0	4.6	6.1	0.0
14	575.0	20.60	1.42	2.98	8.24	4.07	4.68	4.92	0.00	46.91	0.4	0.0	0.0	0.0	0.1	0.0	0.0	0.0	14.7	9.5	Yes	150.0	0.1%	0.3	47.3	0.0	2.9	7.1	0.0
15	372.0	11.90	0.00	0.00	1.09	0.00	1.09	3.38	1.55	19.01	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.5	0.8	Yes	337.0	0.1%	0.2	18.1	0.0	0.0	3.3	1.1
16	314.0	6.37	3.04	5.14	0.00	0.00	1.01	0.00	2.97	18.53	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	4.5	6.1	Yes	377.0	0.1%	0.1	20.9	0.0	0.0	0.7	2.2
17	308.0	22.20	4.60	7.60	0.00	0.00	0.99	0.00	1.08	36.47	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	15.8	9.1	Yes	409.0	0.1%	0.4	48.7	0.0	0.0	0.7	0.8
18	340.0	18.30	1.65	6.04	0.00	0.00	0.95	0.00	0.00	26.94	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.1	5.7	Yes	373.0	0.1%	0.3	36.6	0.0	0.0	0.7	0.0
19	363.0	0.00	0.00	0.00	2.21	2.88	3.63	2.11	0.00	10.83	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	1.7	Yes	308.0	0.1%	0.0	3.3	0.0	2.1	4.3	0.0
20	362.0	0.00	0.00	0.00	9.58	5.56	6.53	5.25	0.00	26.92	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	7.2	Yes	233.0	0.1%	0.0	14.4	0.0	4.0	8.8	0.0
21	355.0	0.00	0.00	0.00	6.65	2.13	3.25	3.41	1.66	17.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	Yes	180.0	0.1%	0.0	10.0	0.0	1.5	5.0	1.2
22	344.0	0.00	0.00	0.00	0.78	1.45	0.00	0.00	2.74	4.97	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.6	Yes	145.0	0.1%	0.0	1.2	0.0	1.0	0.0	2.0
23	341.0	0.00	0.00	0.00	0.00	1.87	0.00	0.00	1.06	2.93	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Yes	127.0	0.1%	0.0	0.0	0.0	1.4	0.0	0.8
24	366.0	6.11	0.00	0.00	0.00	1.53	0.00	0.00	0.00	7.64	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	0.0	Yes	115.0	0.1%	0.1	8.5	0.0	1.1	0.0	0.0
25	366.0	22.50	0.00	0.00	0.00	1.40	0.00	0.00	0.00	23.90	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.1	0.0	Yes	101.0	0.1%	0.4	31.1	0.0	1.0	0.0	0.0
26	359.0	17.30	0.00	0.00	0.00	0.81	0.00	0.00	0.00	18.11	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.3	0.0	Yes	77.5	0.1%	0.3	23.9	0.0	0.6	0.0	0.0
27	351.0	0.00	2.72	5.00	0.00	0.88	0.00	0.00	0.00	8.60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	Yes	60.0	0.1%	0.0	11.4	0.0	0.6	0.0	0.0
28	333.0	0.00	4.54	7.17	2.39	2.02	0.66	2.68	0.00	19.46	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.5	Yes	59.1	0.1%	0.0	20.9	0.0	1.5	2.5	0.0
29	343.0	0.00	1.46	2.62	8.61	3.78	1.88	4.57	0.00	22.92	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	9.5	Yes	50.1	0.1%	0.0	18.9	0.0	2.7	4.8	0.0
30	335.0	0.00	0.00	0.00	6.07	2.51	1.00	2.01	1.95	13.54	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	4.6	Yes	42.8	0.1%	0.0	9.1	0.0	1.8	2.2	1.4
31	359.0	0.00	0.00	0.00	0.73	0.00	0.00	0.00	2.99	3.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.5	Yes	35.9	0.1%	0.0	1.1	0.0	0.0	0.0	2.2
cfsd	16,262.0	221.9	45.9	78.9	93.0	60.6	64.9	47.8	28.8	641.6	3.8	0.7	0.2	0.2	1.4	0.4	0.2	0.7	158.3	163.1		7,632.4		3.6			43.8	83.7	21.0
ac-ft	32,255.7	440.1	90.9	156.5	184.4	120.1	128.6	94.7	57.1	1,272.6	7.6	1.3	0.5	0.4	2.7	0.7	0.3	1.4	314.0	323.6		15,138.9		7.1	630.5	0.0	86.8	166.1	41.8
CU CREDITS (ac-ft)																			314.0	323.6					630.5	0.0	86.8	166.1	41.8
Monthly CU Factor		72.6%	77.0%	73.9%	75.7%	73.9%	74.5%	75.0%	75.0%																				

Monthly FHG Delivery	1,272.6	
Cumulative Annual FHG Delivery	5,354.8	
Maximum Monthly FHG Delivery Limit	3,908.6	FALSE Exceeds Limit
Cumulative Annual FHG Delivery Limit	20,029.4	FALSE Exceeds Limit

	Into JMR				To LAWMA Bucket (6700999)					
	ARF049CO	ARF125CO	ARF126CO	ARF145CO	ARF160CO	ARF166CO	ARF181CO	ARF182CO	Total Del to JMR	
1	21.85	3.22	5.14	8.54	0	2.93	0	1.1	38.75	1
2	30.71	0	0	0	1.5	5.45	2.08	0	30.71	2
3	12.23	0	0	0	1.8	2.67	3.68	0	12.23	3
4	0	0	0	0	1.7	0	1.67	1.2	0	4
5	0	2.28	2.6	0	0	0	0	2	4.88	5
6	0	7.67	9.44	0	0.4	3.32	0	1	17.11	6
7	0	5.47	9.21	2.17	1.6	5.74	0	0	16.85	7
8	16.74	0	0	12.33	4.9	2.71	1.09	0	29.07	8
9	30.57	0	0	8.08	3.3	0	2.79	0	38.65	9
10	13	3.75	6.78	0	0.8	0	1.82	0.8	23.53	10
11	0	5.87	9.83	10.54	0	0	0	1.9	26.24	11
12	0	5.55	9.06	13.18	0.8	1.45	0	1.3	27.79	12
13	8.55	5.06	8.44	13.43	4.6	4.76	1.37	0	35.48	13
14	28.49	2.09	4.26	12.07	2.9	3.47	3.68	0	46.91	14
15	16.46	0	0	1.6	0	0.81	2.53	1.1	18.06	15
16	8.81	4.47	7.34	0	0	0.75	0	2.2	20.62	16
17	30.71	6.77	10.86	0	0	0.73	0	0.8	48.34	17
18	25.31	2.43	8.63	0	0	0.71	0	0	36.37	18
19	0	0	0	3.24	2.1	2.69	1.58	0	3.24	19
20	0	0	0	14.03	4	4.84	3.92	0	14.03	20
21	0	0	0	9.74	1.5	2.41	2.55	1.2	9.74	21
22	0	0	0	1.14	1	0	0	2	1.14	22
23	0	0	0	0	1.4	0	0	0.8	0	23
24	8.45	0	0	0	1.1	0	0	0	8.45	24
25	31.12	0	0	0	1	0	0	0	31.12	25
26	23.93	0	0	0	0.6	0	0	0	23.93	26
27	0	4	7.14	0	0.6	0	0	0	11.14	27
28	0	6.68	10.24	3.5	1.5	0.49	2	0	20.42	28
29	0	2.15	3.74	12.61	2.7	1.39	3.41	0	18.5	29
30	0	0	0	8.89	1.8	0.74	1.5	1.4	8.89	30
31	0	0	0	1.06	0	0	0	2.2	1.06	31
Totals	306.93	67.46	112.71	136.15					623.25	

TABLE ___

LAWMA'S REPLACEMENT SOURCES FROM FORT LYON CANAL THROUGH AUGMENTATION STATIONS

Month: September **Year:** 2017

		FORT LYON CANAL SHARES DELIVERED THROUGH AUGMENTATION STATIONS									TRANSIT LOSS CALCULATIONS								Total CU Credits Delivered to the Arkansas River										
		Above John Martin Dam				Below John Martin Dam				Total	Above John Martin Dam				Below John Martin Dam						To Offset		22.5		To Offset	In-State	Below John Martin Dam		
		ARF049CO	ARF125CO	ARF126CO	ARF145CO	ARF160CO	ARF166CO	ARF181CO	ARF182CO		ARF049CO	ARF125CO	ARF126CO	ARF145CO	ARF160CO	ARF166CO	ARF181CO	ARF182CO	Reach 9	Reach 10	Account		Miles		Account	Repl.	Reach 11	Reach 12	Reach 13
	Fort Lyon Canal Diversions	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Yes or	Arkansas River @ Las Animas	Reach 9 TL to Offset Account	Reach 9 TL to Offset Account	Volume	Volume	Flow	Flow	Flow
Day	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	No	(cfs)	(% / mile)	(cfs)	(af)	(af)	(cfs)	(cfs)	(cfs)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)
1	331.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.21	1.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		30.6	0.1%	0.0	0.0	0.0	0.0	0.0	0.8
2	278.0	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.60	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	0.0		27.7	0.1%	0.0	0.0	9.2	0.0	0.0	0.0
3	265.0	25.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.60	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.7	0.0		37.2	0.1%	0.0	0.0	31.1	0.0	0.0	0.0
4	258.0	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.00	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0	0.0		45.2	0.1%	0.0	0.0	21.9	0.0	0.0	0.0
5	215.0	0.00	0.99	1.97	0.00	0.00	0.00	0.00	0.00	2.96	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9		40.1	0.1%	0.0	0.0	3.8	0.0	0.0	0.0
6	248.0	0.00	4.06	7.80	0.00	0.00	0.00	0.00	0.00	11.86	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.8		32.3	0.1%	0.0	0.0	15.4	0.0	0.0	0.0
7	267.0	0.00	3.03	6.21	0.00	0.00	0.00	0.00	0.00	9.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0		29.4	0.1%	0.0	0.0	12.0	0.0	0.0	0.0
8	327.0	0.00	0.00	0.00	2.15	2.72	0.00	2.77	0.00	7.64	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	1.4		28.0	0.1%	0.0	0.0	2.9	1.7	1.8	0.0
9	398.0	0.00	0.00	0.00	5.63	7.26	1.30	5.47	1.00	20.66	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	3.8		28.1	0.1%	0.0	0.0	7.5	4.6	4.4	0.6
10	395.0	0.00	0.00	0.00	0.82	3.58	0.80	2.41	2.63	10.25	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.6		26.5	0.1%	0.0	0.0	1.1	2.3	2.1	1.7
11	295.0	0.00	0.00	0.00	0.00	0.61	0.00	0.00	2.10	2.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0		25.2	0.1%	0.0	0.0	0.0	0.4	0.0	1.4
12	225.0	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		25.1	0.1%	0.0	0.0	0.0	0.3	0.0	0.0
13	220.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		24.2	0.1%	0.0	0.0	0.0	0.0	0.0	0.0
14	216.0	0.00	2.14	3.35	0.00	0.52	0.00	0.00	0.00	6.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6		23.4	0.1%	0.0	0.0	7.1	0.3	0.0	0.0
15	247.0	15.10	4.66	7.71	0.00	0.51	0.00	0.00	0.00	27.98	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	9.2	8.1		26.1	0.1%	0.0	0.0	34.4	0.3	0.0	0.0
16	258.0	23.10	3.37	5.82	0.00	0.51	0.00	0.00	0.00	32.80	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.1	6.0		39.2	0.1%	0.0	0.0	40.0	0.3	0.0	0.0
17	267.0	9.05	0.00	0.00	1.73	0.76	0.55	0.00	0.00	12.08	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	1.2		39.7	0.1%	0.0	0.0	13.3	0.5	0.4	0.0
18	262.0	0.00	0.00	0.00	7.70	1.96	1.64	0.00	0.00	11.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1		25.9	0.1%	0.0	0.0	10.2	1.2	1.1	0.0
19	265.0	0.00	0.00	0.00	6.41	2.40	1.15	2.42	1.14	13.52	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	4.3		23.4	0.1%	0.0	0.0	8.5	1.5	2.3	0.7
20	263.0	0.00	0.00	0.00	0.62	1.09	0.00	6.03	2.35	10.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.4		24.3	0.1%	0.0	0.0	0.8	0.7	4.0	1.5
21	254.0	0.00	0.00	0.00	0.00	0.85	0.00	3.48	1.50	5.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		23.7	0.1%	0.0	0.0	0.0	0.5	2.3	1.0
22	221.0	0.00	0.00	0.00	0.00	0.72	0.00	0.95	0.00	1.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		23.7	0.1%	0.0	0.0	0.0	0.5	0.6	0.0
23	223.0	0.00	0.00	0.00	0.00	0.71	0.00	0.84	0.00	1.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		21.9	0.1%	0.0	0.0	0.0	0.5	0.6	0.0
24	199.0	0.00	0.00	0.00	0.00	0.70	0.00	0.79	0.00	1.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		21.1	0.1%	0.0	0.0	0.0	0.4	0.5	0.0
25	188.0	6.14	3.23	6.17	0.00	0.68	0.00	0.73	0.00	16.95	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	6.2		21.5	0.1%	0.0	0.0	19.7	0.4	0.5	0.0
26	191.0	21.70	4.88	9.85	0.00	0.68	0.00	0.68	0.00	37.79	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	13.3	9.6		40.0	0.1%	0.0	0.0	45.5	0.4	0.4	0.0
27	228.0	16.10	1.49	3.78	0.00	0.68	0.00	0.63	0.00	22.68	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	3.4		45.3	0.1%	0.0	0.0	26.4	0.4	0.4	0.0
28	229.0	0.00	0.00	0.90	1.21	1.27	1.10	2.64	0.00	7.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4		33.4	0.1%	0.0	0.0	2.8	0.8	2.5	0.0
29	218.0	0.00	0.00	0.89	5.75	1.01	4.27	4.47	0.00	16.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4		27.9	0.1%	0.0	0.0	8.8	0.6	5.7	0.0
30	197.0	0.00	0.00	0.69	5.38	0.81	3.39	2.79	1.07	14.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0		24.8	0.1%	0.0	0.0	8.0	0.5	4.0	0.7
31																													
cfsd	7,648.0	142.4	27.8	55.1	37.4	30.6	14.2	37.1	13.0	357.7	2.5	0.4	0.2	0.1	0.7	0.1	0.1	0.3	87.2	79.3		884.9		0.0			19.5	33.7	8.4
ac-ft	15,169.8	282.4	55.2	109.4	74.2	60.7	28.2	73.6	25.8	709.4	4.9	0.8	0.3	0.2	1.4	0.2	0.3	0.6	172.9	157.3		1,755.2		0.0	0.0	330.2	38.7	66.8	16.7
CU CREDITS (ac-ft)																			172.9	157.3					0.0	330.2	38.7	66.8	16.7
Monthly CU Factor		62.3%	68.5%	64.6%	67.0%	65.2%	65.7%	66.0%	66.3%																				

Monthly FHG Delivery	709.4
Cumulative Annual FHG Delivery	6,064.2
Maximum Monthly FHG Delivery Limit	2,587.6 FALSE Exceeds Limit
Cumulative Annual FHG Delivery Limit	20,029.4 FALSE Exceeds Limit

	Into JMR				To LAWMA Bucket (6700999)					
	ARF049CO	ARF125CO	ARF126CO	ARF145CO	ARF160CO	ARF166CO	ARF181CO	ARF182CO	Total Del to JMR	
1	0	0	0	0	0	0	0	0.8	0	1
2	9.02	0	0	0	0	0	0	0	9.02	2
3	30.39	0	0	0	0	0	0	0	30.39	3
4	21.37	0	0	0	0	0	0	0	21.37	4
5	0	1.29	2.46	0	0	0	0	0	3.75	5
6	0	5.31	9.74	0	0	0	0	0	15.05	6
7	0	3.97	7.75	0	0	0	0	0	11.72	7
8	0	0	0	2.79	1.7	0	1.82	0	2.79	8
9	0	0	0	7.3	4.6	0.85	3.6	0.6	7.3	9
10	0	0	0	1.07	2.3	0.52	1.58	1.7	1.07	10
11	0	0	0	0	0.4	0	0	1.4	0	11
12	0	0	0	0	0.3	0	0	0	0	12
13	0	0	0	0	0	0	0	0	0	13
14	0	2.8	4.18	0	0.3	0	0	0	6.98	14
15	17.92	6.1	9.63	0	0.3	0	0	0	33.65	15
16	27.42	4.41	7.27	0	0.3	0	0	0	39.1	16
17	10.74	0	0	2.24	0.5	0.36	0	0	12.98	17
18	0	0	0	9.98	1.2	1.07	0	0	9.98	18
19	0	0	0	8.31	1.5	0.75	1.59	0.7	8.31	19
20	0	0	0	0.8	0.7	0	3.97	1.5	0.8	20
21	0	0	0	0	0.5	0	2.29	1	0	21
22	0	0	0	0	0.5	0	0.63	0	0	22
23	0	0	0	0	0.5	0	0.55	0	0	23
24	0	0	0	0	0.4	0	0.52	0	0	24
25	7.29	4.23	7.7	0	0.4	0	0.48	0	19.22	25
26	25.76	6.39	12.3	0	0.4	0	0.45	0	44.45	26
27	19.11	1.95	4.72	0	0.4	0	0.41	0	25.78	27
28	0	0	1.13	1.57	0.8	0.72	1.74	0	2.7	28
29	0	0	1.11	7.45	0.6	2.79	2.94	0	8.56	29
30	0	0	0.86	6.97	0.5	2.21	1.83	0.7	7.83	30
31	0	0	0	0	0	0	0	0	0	31
									322.8	

TABLE ___

LAWMA'S REPLACEMENT SOURCES FROM FORT LYON CANAL THROUGH AUGMENTATION STATIONS

Month: October **Year:** 2017

		FORT LYON CANAL SHARES DELIVERED THROUGH AUGMENTATION STATIONS									TRANSIT LOSS CALCULATIONS								Total CU Credits Delivered to the Arkansas River									
		Above John Martin Dam				Below John Martin Dam				Total	Above John Martin Dam				Below John Martin Dam						To Offset		22.5		To Offset	In-State	Below John Martin Dam		
		ARF049CO	ARF125CO	ARF126CO	ARF145CO	ARF160CO	ARF166CO	ARF181CO	ARF182CO		ARF049CO	ARF125CO	ARF126CO	ARF145CO	ARF160CO	ARF166CO	ARF181CO	ARF182CO	Reach 9	Reach 10	Account		Miles		Account	Repl.	Reach 11	Reach 12	Reach 13
	Fort Lyon Canal Diversions	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Flow	Yes or	Arkansas River @ Las Animas	Reach 9 TL to Offset Account	Reach 9 TL to Offset Account	Volume	Volume	Flow	Flow	Flow
Day	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	No	(cfs)	(% / mile)	(cfs)	(af)	(af)	(cfs)	(cfs)	(cfs)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)
1	210.0	0.00	0.00	0.50	0.00	0.69	1.37	0.93	2.82	6.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.3		22.1	0.1%	0.0	0.0	0.5	0.4	1.3	1.6
2	225.0	0.00	0.00	0.00	0.00	0.75	1.34	0.84	1.83	4.76	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		23.9	0.1%	0.0	0.0	0.0	0.4	1.2	1.1
3	228.0	0.00	0.00	0.00	0.00	0.71	1.30	0.78	0.00	2.79	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		23.8	0.1%	0.0	0.0	0.0	0.4	1.2	0.0
4	211.0	8.78	0.00	0.00	0.00	0.71	1.27	0.70	0.00	11.47	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	0.0		26.3	0.1%	0.0	0.0	8.9	0.4	1.1	0.0
5	208.0	24.10	0.00	0.00	0.00	0.71	1.24	0.63	0.00	26.68	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.3	0.0		42.1	0.1%	0.0	0.0	24.3	0.4	1.1	0.0
6	209.0	17.10	0.00	0.00	0.00	0.69	1.20	0.58	0.00	19.57	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	0.0		48.5	0.1%	0.0	0.0	17.3	0.4	1.0	0.0
7	260.0	0.00	0.00	0.00	0.00	0.70	1.17	0.51	0.00	2.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		34.3	0.1%	0.0	0.0	0.0	0.4	1.0	0.0
8	275.0	0.00	2.47	5.43	0.00	0.71	1.14	0.00	0.00	9.75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4		29.6	0.1%	0.0	0.0	8.8	0.4	0.7	0.0
9	260.0	0.00	4.22	8.94	0.00	0.69	1.11	0.00	0.00	14.96	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.4		27.1	0.1%	0.0	0.0	14.7	0.4	0.6	0.0
10	212.0	0.00	1.23	3.73	0.60	0.57	1.11	0.00	0.00	7.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1		26.2	0.1%	0.0	0.0	6.2	0.3	0.6	0.0
11	216.0	0.00	0.00	0.52	5.17	0.54	2.13	0.00	0.00	8.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3		33.4	0.1%	0.0	0.0	6.6	0.3	1.2	0.0
12	233.0	0.00	0.00	0.00	5.98	1.95	5.11	1.17	0.00	14.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5		43.2	0.1%	0.0	0.0	7.0	1.1	3.6	0.0
13	228.0	0.00	0.00	0.00	0.63	8.07	3.35	5.10	1.48	18.63	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.4		43.3	0.1%	0.0	0.0	0.7	4.6	4.8	0.8
14	248.0	0.00	0.00	0.00	0.00	3.77	0.00	3.87	3.79	11.43	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0		30.8	0.1%	0.0	0.0	0.0	2.1	2.2	2.2
15	243.0	0.00	0.00	0.00	0.00	0.52	0.00	0.00	2.22	2.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0		28.7	0.1%	0.0	0.0	0.0	0.3	0.0	1.3
16	234.0	0.00	0.00	0.00	0.00	0.51	0.00	0.00	0.00	0.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		29.0	0.1%	0.0	0.0	0.0	0.3	0.0	0.0
17	215.0	0.00	0.00	0.00	0.00	0.51	0.00	0.00	0.00	0.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		26.5	0.1%	0.0	0.0	0.0	0.3	0.0	0.0
18	210.0	0.00	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		32.4	0.1%	0.0	0.0	0.0	0.3	0.0	0.0
19	208.0	0.00	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.52	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		54.0	0.1%	0.0	0.0	0.0	0.3	0.0	0.0
20	198.0	0.00	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		42.4	0.1%	0.0	0.0	0.0	0.3	0.0	0.0
21	202.0	0.00	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		26.9	0.1%	0.0	0.0	0.0	0.3	0.0	0.0
22	209.0	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		26.0	0.1%	0.0	0.0	0.0	0.3	0.0	0.0
23	209.0	0.00	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		24.5	0.1%	0.0	0.0	0.0	0.4	0.0	0.0
24	244.0	0.00	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		27.7	0.1%	0.0	0.0	0.0	0.5	0.0	0.0
25	240.0	0.00	0.00	0.00	0.00	1.05	0.00	0.00	0.00	1.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		26.5	0.1%	0.0	0.0	0.0	0.6	0.0	0.0
26	245.0	13.90	2.64	6.38	0.00	1.10	0.00	0.00	0.00	24.02	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	5.1		28.0	0.1%	0.0	0.0	24.1	0.6	0.0	0.0
27	258.0	21.30	4.38	12.40	0.00	1.42	0.00	0.00	0.00	39.50	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	10.8	9.4		38.1	0.1%	0.0	0.0	40.2	0.8	0.0	0.0
28	260.0	8.52	1.73	6.49	0.00	4.52	0.00	0.00	0.00	21.26	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	4.3	4.6		39.3	0.1%	0.0	0.0	17.7	2.6	0.0	0.0
29	236.0	0.00	0.00	1.79	1.06	1.10	0.00	2.43	2.06	8.44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	1.6		39.6	0.1%	0.0	0.0	3.2	0.6	1.4	1.2
30	239.0	0.00	0.00	1.65	5.47	5.16	0.00	5.14	3.60	21.02	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	4.1		68.1	0.1%	0.0	0.0	8.2	2.9	2.9	2.1
31	228.0	0.00	0.00	1.57	5.03	1.09	0.00	5.34	3.01	16.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	3.8		91.2	0.1%	0.0	0.0	7.6	0.6	3.1	1.7
cfsd	7,101.0	93.7	16.7	49.4	23.9	42.7	22.8	28.0	20.8	298.0	1.6	0.2	0.2	0.1	1.0	0.1	0.1	0.5	47.7	51.1		1,103.5		0.0			24.3	29.1	11.9
ac-ft	14,084.8	185.9	33.1	98.0	47.5	84.6	45.3	55.6	41.3	591.2	3.2	0.5	0.3	0.1	1.9	0.3	0.2	1.0	94.6	101.3		2,188.8		0.0	0.0	195.9	48.1	57.8	23.7
CU CREDITS (ac-ft)																			94.6	101.3					0.0	195.9	48.1	57.8	23.7
Monthly CU Factor		51.8%	60.1%	55.1%	58.9%	58.2%	57.5%	57.6%	58.9%																				

Monthly FHG Delivery	591.2	
Cumulative Annual FHG Delivery	6,655.4	
Maximum Monthly FHG Delivery Limit	2,094.7	FALSE Exceeds Limit
Cumulative Annual FHG Delivery Limit	20,029.4	FALSE Exceeds Limit

	Into JMR				To LAWMA Bucket (6700999)					
	ARF049CO	ARF125CO	ARF126CO	ARF145CO	ARF160CO	ARF166CO	ARF181CO	ARF182CO	Total Del to JMR	
1	0	0	0.53	0	0.4	0.78	0.53	1.6	0.53	1
2	0	0	0	0	0.4	0.77	0.48	1.1	0	2
3	0	0	0	0	0.4	0.74	0.45	0	0	3
4	8.67	0	0	0	0.4	0.73	0.4	0	8.67	4
5	23.78	0	0	0	0.4	0.71	0.36	0	23.78	5
6	16.88	0	0	0	0.4	0.69	0.33	0	16.88	6
7	0	0	0	0	0.4	0.67	0.29	0	0	7
8	0	2.84	5.78	0	0.4	0.65	0	0	8.62	8
9	0	4.85	9.52	0	0.4	0.63	0	0	14.37	9
10	0	1.41	3.97	0.69	0.3	0.63	0	0	6.07	10
11	0	0	0.56	5.89	0.3	1.22	0	0	6.45	11
12	0	0	0	6.81	1.1	2.92	0.67	0	6.81	12
13	0	0	0	0.72	4.6	1.92	2.93	0.8	0.72	13
14	0	0	0	0	2.1	0	2.22	2.2	0	14
15	0	0	0	0	0.3	0	0	1.3	0	15
16	0	0	0	0	0.3	0	0	0	0	16
17	0	0	0	0	0.3	0	0	0	0	17
18	0	0	0	0	0.3	0	0	0	0	18
19	0	0	0	0	0.3	0	0	0	0	19
20	0	0	0	0	0.3	0	0	0	0	20
21	0	0	0	0	0.3	0	0	0	0	21
22	0	0	0	0	0.3	0	0	0	0	22
23	0	0	0	0	0.4	0	0	0	0	23
24	0	0	0	0	0.5	0	0	0	0	24
25	0	0	0	0	0.6	0	0	0	0	25
26	13.72	3.03	6.79	0	0.6	0	0	0	23.54	26
27	21.02	5.03	13.21	0	0.8	0	0	0	39.26	27
28	8.41	1.99	6.91	0	2.6	0	0	0	17.31	28
29	0	0	1.91	1.21	0.6	0	1.39	1.2	3.12	29
30	0	0	1.76	6.23	2.9	0	2.95	2.1	7.99	30
31	0	0	1.67	5.73	0.6	0	3.06	1.7	7.4	31
									191.52	

Enclosure 2
Maps of Augmentation Stations/Recharge Sites

R 54 W

R 53 W

R 52 W

R 51 W

R 50 W

T 21 S

T 22 S

T 23 S

DATE FILED: June 3, 2019 3:22 PM
FILING ID: E5BF8661B2E72
CASE NUMBER: 2019CW3036

6701002
ARF126CO

6701006
ARF125CO

1701000
ARF049CO

6701005
ARF145CO

6704821
Farm 132/133
Recharge

1704820
Farm 60
Recharge

Horse Creek Reservoir

Cheraw

OTERO

BENT

Arkansas River

US-Highway-50

50

Hasty

Las Animas

La Junta Municipal Airport

Bent's Old Fort National Historic Site

John Martin Reservoir

PICKETWIRE VALLEY

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Legend

- Augmentation Stations
- Recharge Facilities
- Fort Lyon Canal
- Arkansas River
- Gageby and Horse Creeks
- John Martin Reservoir

0 1 2 4
Miles

N W E S

Job No. L7507

File: Exhibit L-1.mxd

Date: 05/30/19

Prepared For: LAWMA/C-S-U

Hendrix Wai Engineering, Inc.

Exhibit L-1

General Location Map

LAWMA's Fort Lyon Canal Augmentation Station and Recharge Facilities

R 50 W | R 49 W | R 48 W | R 47 W | R 46 W | R 45 W

T 21 S

T 22 S

T 23 S

DATE FILED: June 3, 2019 3:22 PM
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CASE NUMBER: 2019CW3036

TBD
Farm No. 110w
Recharge

TBD
Farm No. 110e
Recharge

6701000
ARF182CO

TBD
Farm
63 Recharge

6701011
ARF259CO

6701004
ARF160CO

6704822
Farm 65
Recharge

6701003
ARF166CO

6701001
ARF181CO

6701005
ARF145CO

6704821
Farm 132/133
Recharge

BENT

PROWERS

MAY VALLEY

BIG TIMBERS

US-Highway-50

Hasty

McClave

Wiley

Lamar

Lamar Municipal Airport

John Martin Reservoir

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

Legend

- Augmentation Stations
- Recharge Facilities
- Fort Lyon Canal
- John Martin Reservoir

0 1 2 4
Miles

N W E S

Job No. L7507
File: Exhibit L.mxd
Date: 05/30/19
Prepared For: LAWMA / CS-U

Hendrix Wai Engineering, Inc.

Exhibit L-2

General Location Map

LAWMA's Fort Lyon Canal Augmentation Station and Recharge Facilities

Enclosure 3
LAWMA Recharge Accounting

Lower Arkansas Water Management Association - Fort Lyon Canal Company Recharge Site

Farm 60 Recharge Facility (SEO ID No. 170xxxx): Monthly Totals Based on Daily Data

Month:	% Water Vis. (1)	Measured Inflow (ac-ft) (2)	EOM Pond 1 Staff Gage Reading (ft) (3)	EOM Pond 2 Staff Gage Reading (ft) (4)	EOM Pond 3 Staff Gage Reading (ft) (5)	EOM Pond 4 Staff Gage Reading (ft) (6)	Measured Outflow (ac-ft) (7)	Average Pond 1 Daily Surface Area (ac) (8)	EOM Pond 1 Volume (ac-ft) (9)	Average Pond 2 Daily Surface Area (ac) (10)	EOM Pond 2 Volume (ac-ft) (11)	Average Pond 3 Daily Surface Area (ac) (12)	EOM Pond 3 Volume (ac-ft) (13)	Average Pond 4 Daily Surface Area (ac) (14)	EOM Pond 4 Volume (ac-ft) (15)	Average Daily Surface Area (ac) (16)	EOM Total Volume (ac-ft) (17)	Evap Rate (ft) (18)	Total Pond Evap (ac-ft) (19)	Average Phreatop hytes (ac) (20)	ET (in) (21)	ET (ac-ft) (22)	Total Recharge (ac-ft) (23)	Total HCU Recharge (ac-ft) (24)	Lagged HCU Recharge (ac-ft) (25)
Apr	100.0%	43.70	6.23	5.09	6.32	4.14	0.00	0.89	5.10	0.41	4.56	0.60	2.62	0.24	2.64	2.15	14.92	0.44	0.95	0.00	0.00	0.00	27.83	21.76	11.42
May	100.0%	58.16	2.71	0.00	0.00	0.01	0.00	0.93	2.43	0.44	0.00	0.72	0.00	0.25	0.00	2.34	2.43	0.58	1.36	0.00	0.00	0.00	69.29	55.64	13.37
Jun	100.0%	153.90	0.00	0.00	0.00	0.01	26.16	0.89	0.00	0.59	0.00	0.73	0.00	0.44	0.00	2.64	0.00	0.70	1.85	0.00	0.00	0.00	128.33	105.23	18.24
Jul	100.0%	123.53	0.00	0.00	0.73	0.01	47.81	0.60	0.00	0.34	0.00	0.56	0.70	0.19	0.00	1.70	0.70	0.73	1.24	0.00	0.00	0.00	73.78	58.44	22.66
Aug	100.0%	120.11	6.09	3.34	4.35	2.48	60.91	0.94	4.78	0.76	2.72	0.95	1.75	0.60	1.33	3.26	10.59	0.65	2.12	0.00	0.00	0.00	47.20	35.73	23.79
Sep	100.0%	57.54	6.64	6.17	6.71	5.33	9.45	1.07	5.32	0.93	5.11	1.04	2.62	0.75	3.08	3.78	16.12	0.48	1.82	0.00	0.00	0.00	40.75	27.30	22.67
Oct	100.0%	22.94	0.00	2.46	2.63	2.15	11.51	0.89	0.07	0.84	1.72	0.94	0.83	0.69	0.98	3.37	3.60	0.34	1.15	0.00	0.00	0.00	22.81	13.43	20.35
Nov	0.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00	3.60	1.71	18.16
Dec	0.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	16.40
Jan	0.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	14.98
Feb	0.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	13.81
Mar	0.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.00	12.83
Totals		579.88					155.84		17.71		14.11		8.51		8.02		48.35	4.85	10.47		0.00	0.00	413.57	319.24	208.68

Notes:

1) Monthly: Percentage of month water visible in recharge site.
2) Measured inflow to recharge facility: http://www.dwr.state.co.us/Surfacewater/data/detail_graph.aspx?ID=ARF027CO&MTYPE=DISCHRG
3) End of Month staff gage reading of Sedimintation Pond 1. (Daily area and volumes are calculated using daily readings).
4) End of Month staff gage reading of Sedimintation Pond 2. (Daily area and volumes are calculated using daily readings).
5) End of Month staff gage reading of Sedimintation Pond 3. (Daily area and volumes are calculated using daily readings).
6) End of Month staff gage reading of Sedimintation Pond 4. (Daily area and volumes are calculated using daily readings).
7) Measured surface water outflow from the recharge facility (Delivery to river will be calculated as an augmentation delivery using the appropriate monthly CU factor)
8) Average daily Sedimintation Pond 1 based on Storage Capacity Table and staff gage readings.
9) End of Month volume of water in Sedimintation Pond 1,
10) Average daily Sedimintation Pond 2 based on Storage Capacity Table and staff gage readings.
11) End of Month volume of water in Sedimintation Pond 2.
12) Average daily Sedimintation Pond 3 based on Storage Capacity Table and staff gage readings.
13) End of Month volume of water in Sedimintation Pond 3.
14) Average daily Sedimintation Pond 4 based on Storage Capacity Table and staff gage readings.
15) End of Month volume of water in Sedimintation Pond 4.
16) Sum of Columns 8, 10, 12, and 14)
17) Sum of Columns 9, 11, 13, and 15)
18) Monthly evaporation rate for ponds near John Martin Dam (Case No. 02CW181, Exhibit R)
19) Total monthly evaporation calculated daily by multiplying (Column 16 - Column 20) x Column 19.
20) The amount of observed acres of phreatophytes within the four ponds.
21) Total monthly evapotranspiration rate for phreatophytes in inches (summed from daily values)
22) Total monthly evapotranspiration for phreatophytes in acre-feet (summed from daily values)
23) Monthly total reacharge calculated from the daily Column 2 x 1.9835 + Column 17 - Column 19 - Column 22 - Next Day's Column 17 - Column 7*1.9835
24) Column 23 multiplied by the monthly CU factor on a daily basis.
25) Lagged HCU return flows using the Ground Water Accounting Model response function for Farm 60.

Monthly Factors for FLCC Shares to the Farm 60 Recharge Facility

Month	11	12	1	2	3	4	5	6	7	8	9	10
HCU %	47.8%	0.0%	0.0%	0.0%	52.9%	78.7%	81.0%	82.7%	80.1%	76.5%	67.7%	59.3%
WRF %		-2.2%	-1.9%	-1.8%								
WRF Vol Owed		12.92	11.01	10.46								
Lagged HCU		**16.40**	**14.98**	**13.81**								

Lower Arkansas Water Management Association - Fort Lyon Canal Company Recharge Site

Farm 132/133 Recharge Facility (SEO ID No. 670xxxx): Monthly Totals Based on Daily Data

Month:	% Water Vis. (1)	Measured Inflow (ac-ft) (2)	EOM Pond 1 Staff Gage Reading (ft) (3)	EOM Pond 2 Staff Gage Reading (ft) (4)	EOM Pond 3 Staff Gage Reading (ft) (5)	EOM Pond 4 Staff Gage Reading (ft) (6)	Measured Outflow (ac-ft) (7)	Average Pond 1 Daily Surface Area (ac) (8)	EOM Pond 1 Volume (ac-ft) (9)	Average Pond 2 Daily Surface Area (ac) (10)	EOM Pond 2 Volume (ac-ft) (11)	Average Pond 3 Daily Surface Area (ac) (12)	EOM Pond 3 Volume (ac-ft) (13)	Average Pond 4 Daily Surface Area (ac) (14)	EOM Pond 4 Volume (ac-ft) (15)	Average Daily Surface Area (ac) (16)	EOM Total Volume (ac-ft) (17)	Evap Rate (ft) (18)	Total Pond Evap (ac-ft) (19)	Average Phreatop hytes (ac) (20)	ET (in) (21)	ET (ac-ft) (22)	Total Recharge (ac-ft) (23)	Total HCU Recharge (ac-ft) (24)	Lagged HCU Recharge (ac-ft) (25)
Apr	56.7%	4.63	1.31	0.00	0.00	0.00	0.00	0.46	1.14	0.00	0.00	0.00	0.00	0.00	0.00	0.46	1.14	0.44	0.20	0.00	0.00	0.00	3.29	2.57	4.51
May	100.0%	88.52	0.00	0.00	0.04	0.00	41.83	0.73	0.00	0.33	0.00	0.74	0.00	0.66	0.39	2.46	0.39	0.58	1.43	0.00	0.00	0.00	46.01	36.95	7.40
Jun	100.0%	221.76	2.36	0.00	0.04	0.00	186.15	0.74	1.09	0.32	0.34	0.67	2.38	0.63	0.88	2.35	4.68	0.70	1.65	0.00	0.00	0.00	29.67	24.33	10.59
Jul	100.0%	175.06	6.23	5.45	5.25	7.61	0.00	0.53	4.20	0.26	3.22	0.55	0.00	0.46	4.57	1.80	11.98	0.73	1.32	0.00	0.00	0.00	166.44	131.82	20.49
Aug	100.0%	148.89	6.06	5.11	4.92	7.39	0.00	0.95	6.61	0.52	6.21	1.08	3.13	0.85	8.97	3.40	24.91	0.65	2.21	0.00	0.00	0.00	133.75	101.25	32.46
Sep	100.0%	63.87	6.23	5.45	5.25	7.61	0.00	1.14	6.72	0.65	6.44	1.30	3.13	1.05	9.10	4.14	25.38	0.48	1.99	0.00	0.00	0.00	61.41	41.14	30.26
Oct	100.0%	106.09	6.23	5.45	5.25	7.59	0.00	1.17	6.72	0.70	6.44	1.34	3.13	1.09	9.12	4.30	25.40	0.34	1.46	0.00	0.00	0.00	104.61	61.62	22.92
Nov	0.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00	25.40	12.09	18.81
Dec	0.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	16.49
Jan	0.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	14.84
Feb	0.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	13.55
Mar	0.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.00	12.47
Totals		808.81					227.98		26.47		22.65		11.76		33.00		93.87	4.85	10.25		0.00	0.00	570.58	411.77	204.80

Notes:

1) Monthly: Percentage of month water visible in recharge site.
2) Measured inflow to recharge facility: http://www.dwr.state.co.us/surfacewater/data/detail_graph.aspx?ID=ARF14SCO&MTYPE=DISCHRG
3) End of Month staff gage reading of Sedimintation Pond 1. (Daily area and volumes are calculated using daily readings).
4) End of Month staff gage reading of Sedimintation Pond 2. (Daily area and volumes are calculated using daily readings).
5) End of Month staff gage reading of Sedimintation Pond 3. (Daily area and volumes are calculated using daily readings).
6) End of Month staff gage reading of Sedimintation Pond 4. (Daily area and volumes are calculated using daily readings).
7) Measured surface water outflow from the recharge facility (Delivery to river will be calculated as an augmentation delivery using the appropriate monthly CU factor)
8) Average daily Sedimintation Pond 1 based on Storage Capacity Table and staff gage readings.
9) End of Month volume of water in Sedimintation Pond 1,
10) Average daily Sedimintation Pond 2 based on Storage Capacity Table and staff gage readings.
11) End of Month volume of water in Sedimintation Pond 2.
12) Average daily Sedimintation Pond 3 based on Storage Capacity Table and staff gage readings.
13) End of Month volume of water in Sedimintation Pond 3.
14) Average daily Sedimintation Pond 4 based on Storage Capacity Table and staff gage readings.
15) End of Month volume of water in Sedimintation Pond 4.
16) Sum of Columns 8, 10, 12, and 14)
17) Sum of Columns 9, 11, 13, and 15)
18) Monthly evaporation rate for ponds near John Martin Dam (Case No. 02CW181, Exhibit R)
19) Total monthly evaporation calculated daily by multiplying (Column 16 - Column 20) x Column 19.
20) The amount of observed acres of phreatophytes within the four ponds.
21) Total monthly evapotranspiration rate for phreatophytes in inches (summed from daily values)
22) Total monthly evapotranspiration for phreatophytes in acre-feet (summed from daily values)
23) Monthly total reacharge calculated from the daily Column 2 x 1.9835 + Column 17 - Column 19 - Column 22 - Next Day's Column 17 - Column 7*1.9835
24) Column 23 multiplied by the monthly CU factor on a daily basis.
25) Lagged HCU return flows using the Ground Water Accounting Model response function for Farm 132/133.

Monthly Factors for FLCC Shares to the Farm 132/133 Recharge Facility

Month	11	12	1	2	3	4	5	6	7	8	9	10
HCU %	47.6%	0.0%	0.0%	0.0%	52.9%	78.2%	80.3%	82.0%	79.2%	75.7%	67.0%	58.9%
WRF %		-2.2%	-1.9%	-1.8%								
WRF Vol Owed		17.84	15.04	14.34								
Lagged HCU		**16.49**	**14.84**	**13.55**								

Lower Arkansas Water Management Association - Fort Lyon Canal Company Recharge Site

Farm 65 Recharge Facility (SEO ID No. 670xxxx): Monthly Totals Based on Daily Data

Month:	% Water Vis. (1)	Measured Inflow (ac-ft) (2)	EOM Pond 1 Staff Gage Reading (ft) (3)	EOM Pond 2 Staff Gage Reading (ft) (4)	EOM Pond 3 Staff Gage Reading (ft) (5)	EOM Pond 4 Staff Gage Reading (ft) (6)	Measured Outflow (ac-ft) (7)	Average Pond 1 Daily Surface Area (ac) (8)	EOM Pond 1 Volume (ac-ft) (9)	Average Pond 2 Daily Surface Area (ac) (10)	EOM Pond 2 Volume (ac-ft) (11)	Average Pond 3 Daily Surface Area (ac) (12)	EOM Pond 3 Volume (ac-ft) (13)	Average Pond 4 Daily Surface Area (ac) (14)	EOM Pond 4 Volume (ac-ft) (15)	Average Daily Surface Area (ac) (16)	EOM Total Volume (ac-ft) (17)	Evap Rate (ft) (18)	Total Pond Evap (ac-ft) (19)	Average Phreatop hytes (ac) (20)	ET (in) (21)	ET (ac-ft) (22)	Total Recharge (ac-ft) (23)	Total HCU Recharge (ac-ft) (24)	Lagged HCU Recharge (ac-ft) (25)
Apr	30.0%	28.57	0.00	0.00	0.00	0.00	6.69	0.09	0.00	0.04	0.00	0.08	0.00	0.10	0.00	2.02	0.00	0.44	0.20	0.00	0.00	0.00	21.74	17.00	4.78
May	80.6%	41.01	0.00	0.00	0.00	0.00	14.53	0.21	0.00	0.10	0.00	0.18	0.00	0.21	0.00	4.07	0.32	0.58	1.43	0.00	0.00	0.00	25.76	20.68	7.25
Jun	83.3%	108.65	5.91	4.76	5.39	0.00	93.18	0.30	0.09	0.14	0.00	0.24	0.23	0.22	0.00	5.86	6.89	0.70	1.65	0.00	0.00	0.00	8.26	6.78	7.45
Jul	100.0%	116.08	0.00	0.00	0.00	7.92	87.02	0.20	3.20	0.06	1.49	0.10	1.73	0.47	0.47	6.10	5.38	0.73	1.32	0.00	0.00	0.00	29.96	23.73	8.21
Aug	100.0%	82.39	5.91	4.76	5.39	7.41	50.16	0.41	0.11	0.25	0.16	0.40	0.40	0.56	4.72	11.63	12.47	0.65	2.21	0.00	0.00	0.00	24.09	18.23	9.86
Sep	100.0%	57.22	5.91	4.76	5.39	7.81	28.85	0.45	3.46	0.29	2.98	0.45	1.77	0.58	4.27	12.98	13.48	0.48	1.99	0.00	0.00	0.00	26.52	17.77	9.33
Oct	100.0%	43.37	5.91	4.76	5.39	7.92	9.31	0.45	3.46	0.29	2.98	0.45	2.37	0.58	4.68	12.93	12.89	0.34	1.46	0.00	0.00	0.00	34.05	20.05	7.72
Nov	0.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.46	0.00	2.98	0.00	1.73	0.00	4.72	0.00	0.00	0.19	0.00	0.00	0.00	0.00	12.89	6.14	6.36
Dec	0.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	5.66
Jan	0.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	5.15
Feb	0.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	4.73
Mar	0.0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.00	4.37
Totals		477.28					289.74		13.77		10.59		8.22		18.85		51.42	4.85	10.25		0.00	0.00	183.26	130.38	80.87

Notes:

1) Monthly: Percentage of month water visible in recharge site.
2) Measured inflow to recharge facility: http://www.dwr.state.co.us/surfacewater/data/detail_tabular.aspx?ID=ARF162CO&MTYPE=DISCHRG
3) End of Month staff gage reading of Sedimintation Pond 1. (Daily area and volumes are calculated using daily readings).
4) End of Month staff gage reading of Sedimintation Pond 2. (Daily area and volumes are calculated using daily readings).
5) End of Month staff gage reading of Sedimintation Pond 3. (Daily area and volumes are calculated using daily readings).
6) End of Month staff gage reading of Sedimintation Pond 4. (Daily area and volumes are calculated using daily readings).
7) Measured surface outflow from recharge facility: http://www.dwr.state.co.us/surfacewater/data/detail_tabular.aspx?ID=ARF16TCO&MTYPE=DISCHRG
8) Average daily Sedimintation Pond 1 based on Storage Capacity Table and staff gage readings.
9) End of Month volume of water in Sedimintation Pond 1,
10) Average daily Sedimintation Pond 2 based on Storage Capacity Table and staff gage readings.
11) End of Month volume of water in Sedimintation Pond 2.
12) Average daily Sedimintation Pond 3 based on Storage Capacity Table and staff gage readings.
13) End of Month volume of water in Sedimintation Pond 3.
14) Average daily Sedimintation Pond 4 based on Storage Capacity Table and staff gage readings.
15) End of Month volume of water in Sedimintation Pond 4.
16) Sum of Columns 8, 10, 12, and 14)
17) Sum of Columns 9, 11, 13, and 15)
18) Monthly evaporation rate for ponds near John Martin Dam (Case No. 02CW181, Exhibit R)
19) Total monthly evaporation calculated daily by multiplying (Column 16 - Column 20) x Column 19.
20) The amount of observed acres of phreatophytes within the four ponds.
21) Total monthly evapotranspiration rate for phreatophytes in inches (summed from daily values)
22) Total monthly evapotranspiration for phreatophytes in acre-feet (summed from daily values)
23) Monthly total reacharge calculated from the daily Column 2 x 1.9835 + Column 17 - Column 19 - Column 22 - Next Day's Column 17 - Column 7*1.9835
24) Column 23 multiplied by the monthly CU factor on a daily basis.
25) Lagged HCU return flows using the Ground Water Accounting Model response function for Farm 65.

Monthly Factors for FLCC Shares to the Farm 65 Recharge Facility

Month	11	12	1	2	3	4	5	6	7	8	9	10
HCU %	46.6%	0.0%	0.0%	0.0%	52.7%	77.4%	79.2%	80.8%	77.9%	74.3%	65.6%	57.6%
WRF %		-2.2%	-1.8%	-1.7%								
WRF Vol Owed		10.55	8.74	8.35								
Lagged HCU		**5.66**	**5.15**	**4.73**								

COLORADO
Division of Water Resources
Department of Natural Resources

November 27, 2019

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Kansas Board of Agriculture
901 S. Kansas Avenue, 2nd Floor
Topeka, KS 66613-1383

RE: Notice of Delivery to the Offset Account in John Martin Reservoir – Keesee Water Right

Dear Mr. Barfield:

The purpose of this letter is to provide the notice required by paragraph 3 of the **Resolution Concerning an Offset Account in John Martin Reservoir for Colorado Pumping as Amended March 30, 1998** ("Resolution") of a delivery of water to the Offset Account. This letter provides the monthly reporting of deliveries to the Offset Account from the Lower Arkansas Water Management Association's (LAWMA) shares of the Keesee Ditch. This letter also serves to describe the operations in 2019.

Keesee Ditch operations pursuant to Paragraph 14 of the Resolution Concerning an Offset Account in John Martin Reservoir for Colorado Pumping As Amended March 30, 1998

LAWMA was able to store the consumable portion of half of the Keesee Ditch water right in the Offset Account in John Martin Reservoir except during times when John Martin Reservoir was in Conservation storage, which were minimal in 2019. During times of storage, the return flow component was left in the river to prevent injury consistent with the provisions for maintaining return flows described in LAWMA's decrees in Colorado Water Court Case 02CW181 and 05CW52.

The basic daily operation of the determination of the in-priority amount for the Keesee Ditch, computation of consumptive use component, and subsequent storage are described below:

1. On a daily basis the River Operations Coordination staff in the Division 2 office determined from available inflows the amount available for diversion by Water District 67 ditches under the priority system with appropriate transit loss included. Due to the relative seniority of the Keesee Ditch 1881 and 1883 water rights, the amount available to the Keesee Ditch water right was most typically the full 13.5 cubic feet per second (9 cfs for 1881 and 4.5 cfs for 1883) except for April when conservation storage from November 2018 through April 2019 was being distributed into accounts. In 2019, the relatively junior third priority Keesee Ditch water right (15 cfs for 1893) was in priority 15 days in June and 10 days in July.
2. Upon determination of the daily amount available to the Keesee Ditch for diversion, the monthly consumptive use factor was applied to determine the amount of consumable water available to be stored or bypassed for in-state replacement.

3. The consumable portion to be stored was then shown as an inflow to the Offset Account and deposited in the Colorado Downstream Consumable subaccount.
4. Dryup acreage was monitored by both Colorado and Kansas through site visits and by LAWMA through coordination with the Keesee Ditch owner.

Summary

Enclosure 1 contains the accounting spreadsheets used to determine the credits from the Keesee Ditch for 2019.

The following table summarizes the deliveries of water into the Offset Account during the reporting period.

MONTH	C. U. Water to the Offset Account (ac-ft)	C. U. Water to In-State Replacement (ac-ft)
April	50.20	50.20
May	319.61	319.61
June	431.08	430.82
July	290.79	290.87
August	244.95	244.94
September	261.30	261.00
October	215.67	215.67
Total	**1813.60**	**1813.11**

Please contact me if you have any questions or require additional information.

Sincerely,

Bill W. Tyner

Bill W. Tyner, P.E.
Division Engineer
Colorado Division of Water Resources

1 Enclosure

cc: Kevin Salter Dale Book
Dan Steuer Don Higbee Randy Hendrix Rachel Zancanella Bethany Arnold

Enclosure 1

Keesee Ditch Accounting for 2019

Date	Keesee in Priority (cfs)	Computed CU Water to Account 53 (ac-ft)	Keesee Bypassed for In-State (cfs)	Computed CU Water to Reach 11 (ac-ft)	In Conservation Storage?	Return flows cfs	Total by-pass cfs
4/1/2019	0.00	0.00	0.00	0.00	Yes	0.00	0.00
4/2/2019	0.00	0.00	0.00	0.00	Yes	0.00	0.00
4/3/2019	0.00	0.00	0.00	0.00	Yes	0.00	0.00
4/4/2019	0.00	0.00	0.00	0.00	Yes	0.00	0.00
4/5/2019	0.00	0.00	0.00	0.00	Yes	0.00	0.00
4/6/2019	0.00	0.00	0.00	0.00	Yes	0.00	0.00
4/7/2019	0.00	0.00	0.00	0.00	Yes	0.00	0.00
4/8/2019	0.00	0.00	0.00	0.00	Yes	0.00	0.00
4/9/2019	0.00	0.00	0.00	0.00	Yes	0.00	0.00
4/10/2019	0.00	0.00	0.00	0.00	Yes	0.00	0.00
4/11/2019	0.00	0.00	0.00	0.00	Yes	0.00	0.00
4/12/2019	0.00	0.00	0.00	0.00	Yes	0.00	0.00
4/13/2019	0.00	0.00	0.00	0.00	Yes	0.00	0.00
4/14/2019	0.00	0.00	0.00	0.00	Yes	0.00	0.00
4/15/2019	0.00	0.00	0.00	0.00	Yes	0.00	0.00
4/16/2019	0.00	0.00	0.00	0.00	Yes	0.00	0.00
4/17/2019	0.00	0.00	0.00	0.00	Yes	0.00	0.00
4/18/2019	0.00	0.00	0.00	0.00	Yes	0.00	0.00
4/19/2019	0.00	0.00	0.00	0.00	Yes	0.00	0.00
4/20/2019	0.00	0.00	0.00	0.00	Yes	0.00	0.00
4/21/2019	0.00	0.00	0.00	0.00	Yes	0.00	0.00
4/22/2019	0.00	0.00	0.00	0.00	Yes	0.00	0.00
4/23/2019	0.00	0.00	0.00	0.00	Yes	0.00	0.00
4/24/2019	0.00	0.00	0.00	0.00	Yes	0.00	0.00
4/25/2019	0.00	0.00	0.00	0.00	Yes	0.00	0.00
4/26/2019	13.50	10.04	6.75	10.04	No	3.38	8.44
4/27/2019	13.50	10.04	6.75	10.04	No	3.38	8.44
4/28/2019	13.50	10.04	6.75	10.04	No	3.38	8.44
4/29/2019	13.50	10.04	6.75	10.04	No	3.38	8.44
4/30/2019	13.50	10.04	6.75	10.04	No	3.38	8.44
Total Diversion AF=	133.89	50.20	66.94	50.20			
Max Diversion AF=	**862.00**	**Actual Diversion AF=**	200.83	AF			
Max Monthly CU AF=	**646.50**	**Actual CU AF=**	100.40	AF			
		End of Month Adjustment=	0.00	AF			

CU factor for April = 75.0%

Cumulative Annual Diversion AF= 200.83

Maximum Annual Diversion AF= 5006

Date	Keesee in Priority (cfs)	Computed CU Water to Account 53 (ac-ft)	Keesee Bypassed for In-State (cfs)	Computed CU Water to Reach 11 (ac-ft)	In Conservation Storage?	Return flows cfs	Total by-pass cfs
5/1/2019	13.50	10.31	6.75	10.31	No	3.11	8.30
5/2/2019	13.50	10.31	6.75	10.31	No	3.11	8.30
5/3/2019	13.50	10.31	6.75	10.31	No	3.11	8.30
5/4/2019	13.50	10.31	6.75	10.31	No	3.11	8.30
5/5/2019	13.50	10.31	6.75	10.31	No	3.11	8.30
5/6/2019	13.50	10.31	6.75	10.31	No	3.11	8.30
5/7/2019	13.50	10.31	6.75	10.31	No	3.11	8.30
5/8/2019	13.50	10.31	6.75	10.31	No	3.11	8.30
5/9/2019	13.50	10.31	6.75	10.31	No	3.11	8.30
5/10/2019	13.50	10.31	6.75	10.31	No	3.11	8.30
5/11/2019	13.50	10.31	6.75	10.31	No	3.11	8.30
5/12/2019	13.50	10.31	6.75	10.31	No	3.11	8.30
5/13/2019	13.50	10.31	6.75	10.31	No	3.11	8.30
5/14/2019	13.50	10.31	6.75	10.31	No	3.11	8.30
5/15/2019	13.50	10.31	6.75	10.31	No	3.11	8.30
5/16/2019	13.50	10.31	6.75	10.31	No	3.11	8.30
5/17/2019	13.50	10.31	6.75	10.31	No	3.11	8.30
5/18/2019	13.50	10.31	6.75	10.31	No	3.11	8.30
5/19/2019	13.50	10.31	6.75	10.31	No	3.11	8.30
5/20/2019	13.50	10.31	6.75	10.31	No	3.11	8.30
5/21/2019	13.50	10.31	6.75	10.31	No	3.11	8.30
5/22/2019	13.50	10.31	6.75	10.31	No	3.11	8.30
5/23/2019	13.50	10.31	6.75	10.31	No	3.11	8.30
5/24/2019	13.50	10.31	6.75	10.31	No	3.11	8.30
5/25/2019	13.50	10.31	6.75	10.31	No	3.11	8.30
5/26/2019	13.50	10.31	6.75	10.31	No	3.11	8.30
5/27/2019	13.50	10.31	6.75	10.31	No	3.11	8.30
5/28/2019	13.50	10.31	6.75	10.31	No	3.11	8.30
5/29/2019	13.50	10.31	6.75	10.31	No	3.11	8.30
5/30/2019	13.50	10.31	6.75	10.31	No	3.11	8.30
5/31/2019	13.50	10.31	6.75	10.31	No	3.11	8.30
Total Diversion AF=	830.09	319.61	415.05	319.61			
Max Diversion AF=	**862.00**	**Actual Diversion AF=**	830.09	AF			
Max Monthly CU AF	**663.74**	**Actual CU AF=**	639.22	AF			
		End of Month Adjustment:	0.00	AF			
	CU factor for May =	**77.0%**					
	Cumulative Annual Diversion AF=	1030.92					
	Maximum Annual Diversion AF=	5006					

Date	Keesee in Priority (cfs)	Computed CU Water to Account 53 (ac-ft)	Keesee Bypassed for In-State (cfs)	Computed CU Water to Reach 11 (ac-ft)	In Conservation Storage?	Return flows cfs	Total by-pass cfs
6/1/2019	13.50	9.78	6.75	9.77	No	3.65	8.57
6/2/2019	13.50	9.78	6.75	9.77	No	3.65	8.57
6/3/2019	13.50	9.78	6.75	9.77	No	3.65	8.57
6/4/2019	13.50	9.78	6.75	9.77	No	3.65	8.57
6/5/2019	13.50	9.78	6.75	9.77	No	3.65	8.57
6/6/2019	13.50	9.78	6.75	9.77	No	3.65	8.57
6/7/2019	13.50	9.78	6.75	9.77	No	3.65	8.57
6/8/2019	13.50	9.78	6.75	9.77	No	3.65	8.57
6/9/2019	13.50	9.78	6.75	9.77	No	3.65	8.57
6/10/2019	13.50	9.78	6.75	9.77	No	3.65	8.57
6/11/2019	28.50	20.64	14.25	20.63	No	7.70	18.10
6/12/2019	28.50	20.64	14.25	20.63	No	7.70	18.10
6/13/2019	28.50	20.64	14.25	20.63	No	7.70	18.10
6/14/2019	28.50	20.64	14.25	20.63	No	7.70	18.10
6/15/2019	28.50	20.64	14.25	20.63	No	7.70	18.10
6/16/2019	28.50	20.64	14.25	20.63	No	7.70	18.10
6/17/2019	28.50	20.64	14.25	20.63	No	7.70	18.10
6/18/2019	28.50	20.64	14.25	20.63	No	7.70	18.10
6/19/2019	28.50	20.64	14.25	20.63	No	7.70	18.10
6/20/2019	28.50	20.64	14.25	20.63	No	7.70	18.10
6/21/2019	28.50	20.64	14.25	20.63	No	7.70	18.10
6/22/2019	28.50	20.64	14.25	20.63	No	7.70	18.10
6/23/2019	28.50	20.64	14.25	20.63	No	7.70	18.10
6/24/2019	28.50	20.64	14.25	20.63	No	7.70	18.10
6/25/2019	28.50	20.64	14.25	20.63	No	7.70	18.10
6/26/2019	28.50	20.64	14.25	20.63	No	7.70	18.10
6/27/2019	4.20	3.04	2.10	3.04	No	1.13	2.67
6/28/2019		0.00		0.00	No	0.00	0.00
6/29/2019		0.00		0.00	No	0.00	0.00
6/30/2019		0.00		0.00	No	0.00	0.00
Total Diversion AF=	1180.58	431.08	590.29	430.82			
Max Diversion AF=	**1350.00**	**Actual Diversion AF=**	1180.58	AF			
Max Monthly CU AF=	**985.50**	**Actual CU AF=**	861.90	AF			
		End of Month Adjustment=	0.00	AF			

60.9% << LAWMA reduction percentage for June (normally 862 af)

CU factor for June = **73.0%**

Cumulative Annual Diversion AF= 2211.50

Maximum Annual Diversion AF= 5006

Limit Monthly river headgate diversions to 278 a/f delivered to Offset Acct.

Limit Monthly river headgate diversions to 278 a/f delivered to river for in-state replacement.

Date	Keesee in Priority (cfs)	Computed CU Water to Account 53 (ac-ft)	Keesee Bypassed for In-State (cfs)	Computed CU Water to Reach 11 (ac-ft)	In Conservation Storage?	Return flows cfs	Total by-pass cfs
7/1/2019	28.50	20.91	14.25	20.92	No	7.41	17.95701
7/2/2019	28.50	20.91	14.25	20.92	No	7.41	17.95701
7/3/2019	28.50	20.91	14.25	20.92	No	7.41	17.95701
7/4/2019	28.50	20.91	14.25	20.92	No	7.41	17.95701
7/5/2019	28.50	20.91	14.25	20.92	No	7.41	17.95701
7/6/2019	28.50	20.91	14.25	20.92	No	7.41	17.95701
7/7/2019	28.50	20.91	14.25	20.92	No	7.41	17.95701
7/8/2019	28.50	20.91	14.25	20.92	No	7.41	17.95701
7/9/2019	28.50	20.91	14.25	20.92	No	7.41	17.95701
7/10/2019	28.50	20.91	14.25	20.92	No	7.41	17.95701
7/11/2019	13.50	9.91	6.75	9.91	No	3.51	8.506219
7/12/2019	13.50	9.91	6.75	9.91	No	3.51	8.506219
7/13/2019	13.50	9.91	6.75	9.91	No	3.51	8.506219
7/14/2019	13.50	9.91	6.75	9.91	No	3.51	8.506219
7/15/2019	13.50	9.91	6.75	9.91	No	3.51	8.506219
7/16/2019	13.50	9.91	6.75	9.91	No	3.51	8.506219
7/17/2019	13.50	9.91	6.75	9.91	No	3.51	8.506219
7/18/2019	13.50	9.91	6.75	9.91	No	3.51	8.506219
7/19/2019	3.27	2.41	1.63	2.39	No	0.8502	2.055141
7/20/2019		0.00		0.00	No	0	0
7/21/2019		0.00		0.00	No	0	0
7/22/2019		0.00		0.00	No	0	0
7/23/2019		0.00		0.00	No	0	0
7/24/2019		0.00		0.00	No	0	0
7/25/2019		0.00		0.00	No	0	0
7/26/2019		0.00		0.00	No	0	0
7/27/2019		0.00		0.00	No	0	0
7/28/2019		0.00		0.00	No	0	0
7/29/2019		0.00		0.00	No	0	0
7/30/2019		0.00		0.00	No	0	0
7/31/2019		0.00		0.00	No	0	0
Total Diversion AF=	786.00	290.79	392.99	290.87			
Max Diversion AF=	**786.00**	**Actual Diversion AF=**	**786.00**	AF			
Max Monthly CU AF=	**581.64**	**Actual CU AF=**	581.66	AF			
		End of Month Adjustment=	0.02	AF			

CU factor for July = **74.0%**

Cumulative Annual Diversion AF= 2997.50 Adjusted Max 786

Maximum Annual Diversion AF= 5006

Limit Monthly river headgate diversions to 393 a/f delivered to Offset Acct.

Limit Monthly river headgate diversions to 393 a/f delivered to river for in-state replacement.

Date	Keesee in Priority (cfs)	Computed CU Water to Account 53 (ac-ft)	Keesee Bypassed for In-State (cfs)	Computed CU Water to Reach 11 (ac-ft)	In Conservation Storage?	Return flows cfs	Total by-pass cfs
8/1/2019	13.50	9.37	6.75	9.37	No	4.05	8.773973
8/2/2019	13.50	9.37	6.75	9.37	No	4.05	8.773973
8/3/2019	13.50	9.37	6.75	9.37	No	4.05	8.773973
8/4/2019	13.50	9.37	6.75	9.37	No	4.05	8.773973
8/5/2019	13.50	9.37	6.75	9.37	No	4.05	8.773973
8/6/2019	13.50	9.37	6.75	9.37	No	4.05	8.773973
8/7/2019	13.50	9.37	6.75	9.37	No	4.05	8.773973
8/8/2019	13.50	9.37	6.75	9.37	No	4.05	8.773973
8/9/2019	13.50	9.37	6.75	9.37	No	4.05	8.773973
8/10/2019	13.50	9.37	6.75	9.37	No	4.05	8.773973
8/11/2019	13.50	9.37	6.75	9.37	No	4.05	8.773973
8/12/2019	13.50	9.37	6.75	9.37	No	4.05	8.773973
8/13/2019	13.50	9.37	6.75	9.37	No	4.05	8.773973
8/14/2019	13.50	9.37	6.75	9.37	No	4.05	8.773973
8/15/2019	13.50	9.37	6.75	9.37	No	4.05	8.773973
8/16/2019	13.50	9.37	6.75	9.37	No	4.05	8.773973
8/17/2019	13.50	9.37	6.75	9.37	No	4.05	8.773973
8/18/2019	13.50	9.37	6.75	9.37	No	4.05	8.773973
8/19/2019	13.50	9.37	6.75	9.37	No	4.05	8.773973
8/20/2019	13.50	9.37	6.75	9.37	No	4.05	8.773973
8/21/2019	13.50	9.37	6.75	9.37	No	4.05	8.773973
8/22/2019	13.50	9.37	6.75	9.37	No	4.05	8.773973
8/23/2019	13.50	9.37	6.75	9.37	No	4.05	8.773973
8/24/2019	13.50	9.37	6.75	9.37	No	4.05	8.773973
8/25/2019	13.50	9.37	6.75	9.37	No	4.05	8.773973
8/26/2019	13.50	9.37	6.75	9.37	No	4.05	8.773973
8/27/2019	1.91	1.33	0.95	1.32	No	0.573	1.23849
8/28/2019		0.00		0.00	No	0	0
8/29/2019		0.00		0.00	No	0	0
8/30/2019		0.00		0.00	No	0	0
8/31/2019		0.00		0.00	No	0	0
Total Diversion AF=	700.00	244.95	349.99	244.94			
Max Diversion AF=	**700.00**	**Actual Diversion AF=**	700.00	AF			
Max Monthly CU AF=	**490.00**	**Actual CU AF=**	489.89	AF			
		End of Month Adjustment=	0.00	AF			
	CU factor for August =	**70.0%**					
	Cumulative Annual Diversion AF=	3697.50					
	Maximum Annual Diversion AF=	5006					

Limit Monthly river headgate diversions to a/f delivered to Offset Acct.
Limit Monthly river headgate diversions to a/f delivered to river for in-state replacement.

Date	Keesee in Priority (cfs)	Computed CU Water to Account 53 or 55 (ac-ft)	Keesee Bypassed for In-State (cfs)	Computed CU Water to Reach 11 (ac-ft)	In Conservation Storage?	Return flows cfs	Total by-pass cfs
9/1/2019	13.50	8.71	6.75	8.70	No	4.725	9.111
9/2/2019	13.50	8.71	6.75	8.70	No	4.73	9.11
9/3/2019	13.50	8.71	6.75	8.70	No	4.73	9.11
9/4/2019	13.50	8.71	6.75	8.70	No	4.73	9.11
9/5/2019	13.50	8.71	6.75	8.70	No	4.73	9.11
9/6/2019	13.50	8.71	6.75	8.70	No	4.73	9.11
9/7/2019	13.50	8.71	6.75	8.70	No	4.73	9.11
9/8/2019	13.50	8.71	6.75	8.70	No	4.73	9.11
9/9/2019	13.50	8.71	6.75	8.70	No	4.73	9.11
9/10/2019	13.50	8.71	6.75	8.70	No	4.73	9.11
9/11/2019	13.50	8.71	6.75	8.70	No	4.73	9.11
9/12/2019	13.50	8.71	6.75	8.70	No	4.73	9.11
9/13/2019	13.50	8.71	6.75	8.70	No	4.73	9.11
9/14/2019	13.50	8.71	6.75	8.70	No	4.73	9.11
9/15/2019	13.50	8.71	6.75	8.70	No	4.73	9.11
9/16/2019	13.50	8.71	6.75	8.70	No	4.73	9.11
9/17/2019	13.50	8.71	6.75	8.70	No	4.73	9.11
9/18/2019	13.50	8.71	6.75	8.70	No	4.73	9.11
9/19/2019	13.50	8.71	6.75	8.70	No	4.73	9.11
9/20/2019	13.50	8.71	6.75	8.70	No	4.73	9.11
9/21/2019	13.50	8.71	6.75	8.70	No	4.73	9.11
9/22/2019	13.50	8.71	6.75	8.70	No	4.73	9.11
9/23/2019	13.50	8.71	6.75	8.70	No	4.73	9.11
9/24/2019	13.50	8.71	6.75	8.70	No	4.73	9.11
9/25/2019	13.50	8.71	6.75	8.70	No	4.73	9.11
9/26/2019	13.50	8.71	6.75	8.70	No	4.73	9.11
9/27/2019	13.50	8.71	6.75	8.70	No	4.73	9.11
9/28/2019	13.50	8.71	6.75	8.70	No	4.73	9.11
9/29/2019	13.50	8.71	6.75	8.70	No	4.73	9.11
9/30/2019	13.50	8.71	6.75	8.70	No	4.73	9.11
Total Diversion AF=	803.32	261.30		261.00			
Max Diversion AF=	**862.00**	**Actual Diversion AF=**	803.32	AF			
Max Monthly CU AF=	**560.30**	**Actual CU AF=**	522.30	AF			
		End of Month Adjustment=	0.00	AF			
	CU factor for September =	**65.0%**					
	Cumulative Annual Diversion AF=	4500.82					
	Maximum Annual Diversion AF=	5006					

Limit Monthly river headgate diversions to 363 a/f delivered to Offset Acct.
Limit Monthly river headgate diversions to 363 a/f delivered to river for in-state replacement.

Date	Keesee in Priority (cfs)	Computed CU Water to Account 53 or 55 (ac-ft)	Keesee Bypassed for In-State (cfs)	Computed CU Water to Reach 11 (ac-ft)	In Conservation Storage?	Return flows cfs	Total by-pass cfs
10/1/2019	13.50	7.70	6.75	7.70	No	5.7375	9.619527
10/2/2019	13.50	7.70	6.75	7.70	No	5.7375	9.619527
10/3/2019	13.50	7.70	6.75	7.70	No	5.7375	9.619527
10/4/2019	13.50	7.70	6.75	7.70	No	5.7375	9.619527
10/5/2019	13.50	7.70	6.75	7.70	No	5.7375	9.619527
10/6/2019	13.50	7.70	6.75	7.70	No	5.7375	9.619527
10/7/2019	13.50	7.70	6.75	7.70	No	5.7375	9.619527
10/8/2019	13.50	7.70	6.75	7.70	No	5.7375	9.619527
10/9/2019	13.50	7.70	6.75	7.70	No	5.7375	9.619527
10/10/2019	13.50	7.70	6.75	7.70	No	5.7375	9.619527
10/11/2019	13.50	7.70	6.75	7.70	No	5.7375	9.619527
10/12/2019	13.50	7.70	6.75	7.70	No	5.7375	9.619527
10/13/2019	13.50	7.70	6.75	7.70	No	5.7375	9.619527
10/14/2019	13.50	7.70	6.75	7.70	No	5.7375	9.619527
10/15/2019	13.50	7.70	6.75	7.70	No	5.7375	9.619527
10/16/2019	13.50	7.70	6.75	7.70	No	5.7375	9.619527
10/17/2019	13.50	7.70	6.75	7.70	No	5.7375	9.619527
10/18/2019	13.50	7.70	6.75	7.70	No	5.7375	9.619527
10/19/2019	13.50	7.70	6.75	7.70	No	5.7375	9.619527
10/20/2019	13.50	7.70	6.75	7.70	No	5.7375	9.619527
10/21/2019	13.50	7.70	6.75	7.70	No	5.7375	9.619527
10/22/2019	13.50	7.70	6.75	7.70	No	5.7375	9.619527
10/23/2019	13.50	7.70	6.75	7.70	No	5.7375	9.619527
10/24/2019	13.50	7.70	6.75	7.70	No	5.7375	9.619527
10/25/2019	13.50	7.70	6.75	7.70	No	5.7375	9.619527
10/26/2019	13.50	7.70	6.75	7.70	No	5.7375	9.619527
10/27/2019	13.50	7.70	6.75	7.70	No	5.7375	9.619527
10/28/2019	13.50	7.70	6.75	7.70	No	5.7375	9.619527
10/29/2019	0.12	0.07	0.06	0.07	No	0.051	0.086291
10/30/2019		0.00		0.00	No	0	0
10/31/2019		0.00		0.00	No	0	0
Total Diversion AF=	750.00	215.67	375.00	215.67			
Max Diversion AF=	**750.00**	**Actual Diversion AF=**	750.00	AF			
Max Monthly CU AF=	**431.25**	**Actual CU AF=**	431.34	AF			
		End of Month Adjustment=	0.09	AF			

CU factor for October =	**57.5%**
Cumulative Annual Diversion AF=	5625.82
Maximum Annual Diversion AF=	5006
End of Year Adjustment=	619.82 AF

Limit Monthly river headgate diversions to 431 a/f delivered to Offset Acct.
Limit Monthly river headgate diversions to 431 a/f delivered to river for in-state replacement.

COLORADO
Division of Water Resources
Department of Natural Resources

November 27, 2019

David Barfield
Kansas Chief Engineer
Kansas Board of Agriculture
901 S. Kansas Avenue, 2nd Floor
Topeka, KS 66612-1283

RE: Notice of Delivery to the Offset Account in John Martin Reservoir – Highland Water Right

Dear Mr. Barfield:

The purpose of this letter is to provide the notice required by paragraph 3 of the **Resolution Concerning an Offset Account in John Martin Reservoir for Colorado Pumping as Amended March 30, 1998** ("Resolution") of a delivery of water to the Offset Account. This letter provides the reporting of deliveries to the Offset Account from the Lower Arkansas Water Management Association's (LAWMA) shares of the Highland Irrigation Company. This letter also serves to describe the operations in 2019, first described in the letter of April 4, 2019, which provided the initial notice of the delivery of water from this replacement source for 2019.

Summary

Enclosure 1 contains the accounting spreadsheets used to determine the credits from the Highland Canal for 2019 that resulted in the JMAS accounting presented in the Offset Account Report and Operation Secretary's Report.

In April, all LAWMA deliveries were made to the Offset Account in John Martin Reservoir. In May, all of the deliveries were split between the Permanent Pool and the Offset account except May 30th when water was only delivered to the Offset Account. In June, all deliveries were split between the Offset Account and the Permanent Pool. In July, the split between the two accounts continued, except for July 20-22, where all deliveries were sent to the Permanent Pool. In August, deliveries were split between the two accounts from August 1 through August 11, and then all deliveries were sent to the Permanent Pool on August 11th and 12th. Split deliveries continued from August 13th through 18th. August 19th and 20th the deliveries were again sent only to the Permanent Pool. August 21st the deliveries were split again until August 23rd. From August 23rd until the Highland came out of priority on August 28th, the deliveries were all made to the Permanent Pool. The Highland came back in on August 31st and all available water was delivered to the Permanent Pool. This somewhat atypical delivery scheme was due in part to a correction to the record after it was discovered that the Highland was turned off, but still recording a minimal flow. DWR staff addressed the issue as soon as it was discovered and corrected the record.

Deliveries to the Permanent Pool were as authorized under the Resolution and Agreement included in Enclosure 2, which was made permanent on February 21st 2019. Colorado Parks and Wildlife was also required to obtain approval for a Substitute Water Supply Plan to allow temporary use of the Highland Canal water rights for use in the Permanent Pool and the approval letter for that Substitute Water Supply Plan is included in Enclosure 3.

The following table summarizes the actual deliveries of water into the Offset Account (and Permanent Pool) during the reporting period from the Highland Canal water rights.

Highland Accounting Summary
(values in acre-feet)

	Direct Flow Consumptive Use Credits			Delivery To		
	02CW181	10CW85	Total	Bypassed for In-State Replacement	Delivery to the Permanent Pool	Delivery to the Offset Account
April	480.06	23.57	503.63	0.00	0.00	503.63
May	905.93	44.47	950.40	0.00	202.43	747.97
June	945.69	46.42	992.11	0.00	380.85	611.26
July	882.17	43.30	925.48	0.00	450.16	475.32
August	427.46	20.98	448.44	0.00	283.76	164.69
September	16.11	0.79	16.90	0.00	16.90	0.00
October	1.03	0.05	1.08	0.00	1.08	0.00
	3658.45	179.59	3838.04	0.00	1335.18	2502.86

Please contact me if you have any questions or require additional information.

Sincerely,

Bill W. Tyner

Bill Tyner, P.E.
Division Engineer
Colorado Division of Water Resources

3 Enclosures

cc: Kevin Salter Dale Book Don Higbee Randy Hendrix
Rachel Zancanella Phil Reynolds Bethany Arnold

Enclosure 1

Highland Canal Accounting for 2019

LAWMA Highland Accounting 2019

	1	2	3	4	5	6	6B	7	8	9	10	11	12	13	14	15	16	17	18
Date	Purgatoire @ Highland River Gage	Canal Flume	WD 67 River Call?	Available in Priority No 67 Call	In Stream in Priority	LAWMA's 02CW181 Portion	LAWMA's 10CW85 Portion	trloss#1	trloss#2	trloss#3	LAWMA tlossfctr	**crdtoffst**	Purg@hgh	Purg@LA	Ark@LA	Arkconfl	factor#1	factor#2	factor#3
4/1/2019	18.40	0.00	No	18.40	18.40	17.54	0.86	0.017	0.006	0.040	0.07512	**acre ft**	18.40	16.9	40.2	57.1	0.290	0.290	0.233
4/2/2019	19.90	0.00	No	19.90	19.90	18.97	0.93	0.017	0.006	0.040	0.07512	**20.80**	19.90	25.1	36.5	61.6	0.290	0.290	0.233
4/3/2019	23.50	0.00	No	23.50	23.50	22.40	1.10	0.017	0.006	0.040	0.07512	**22.50**	23.50	26.1	34.5	60.6	0.290	0.290	0.233
4/4/2019	21.50	0.00	No	21.50	21.50	20.49	1.01	0.017	0.006	0.040	0.07512	**26.57**	21.50	27.5	32.9	60.4	0.290	0.290	0.233
4/5/2019	20.50	0.00	No	20.50	20.50	19.54	0.96	0.017	0.006	0.040	0.07512	**24.31**	20.50	27.3	33.4	60.7	0.290	0.290	0.233
4/6/2019	21.20	0.00	No	21.20	21.20	20.21	0.99	0.017	0.006	0.040	0.07512	**23.17**	21.20	26.4	32.6	59.0	0.290	0.290	0.233
4/7/2019	21.20	0.00	No	21.20	21.20	20.21	0.99	0.017	0.006	0.040	0.07512	**23.97**	21.20	26.8	32.3	59.1	0.290	0.290	0.233
4/8/2019	19.70	0.00	No	19.70	19.70	18.78	0.92	0.017	0.006	0.040	0.07512	**23.97**	19.70	24.8	31.8	56.6	0.290	0.290	0.233
4/9/2019	18.40	0.00	No	18.40	18.40	17.54	0.86	0.017	0.006	0.040	0.07512	**22.27**	18.40	23.8	31.6	55.4	0.290	0.290	0.233
4/10/2019	16.70	0.00	No	16.70	16.70	15.92	0.78	0.017	0.006	0.040	0.07512	**20.80**	16.70	21.4	30.1	51.5	0.290	0.290	0.233
4/11/2019	17.20	0.00	No	17.20	17.20	16.40	0.80	0.017	0.006	0.040	0.07512	**18.88**	17.20	21.8	32.9	54.7	0.290	0.290	0.233
4/12/2019	15.70	0.00	No	15.70	15.70	14.97	0.73	0.017	0.006	0.040	0.07512	**19.44**	15.70	21.6	39.4	61.0	0.290	0.290	0.233
4/13/2019	14.10	0.00	No	14.10	14.10	13.44	0.66	0.017	0.006	0.040	0.07512	**17.75**	14.10	20.1	43.8	63.9	0.290	0.290	0.233
4/14/2019	13.00	0.00	No	13.00	13.00	12.39	0.61	0.017	0.006	0.040	0.07512	**15.94**	13.00	18.1	35.7	53.8	0.290	0.290	0.233
4/15/2019	12.10	0.00	No	12.10	12.10	11.53	0.57	0.017	0.006	0.049	0.08671	**14.70**	12.10	16.7	33.2	49.9	0.290	0.290	0.290
4/16/2019	12.00	0.00	No	12.00	12.00	11.44	0.56	0.017	0.006	0.049	0.08671	**13.51**	12.00	16.0	31.1	47.1	0.290	0.290	0.290
4/17/2019	11.30	0.00	No	11.30	11.30	10.77	0.53	0.017	0.006	0.049	0.08671	**13.40**	11.30	15.3	30.2	45.5	0.290	0.290	0.290
4/18/2019	10.80	0.00	No	10.80	10.80	10.29	0.51	0.017	0.006	0.049	0.08671	**12.61**	10.80	15.0	30.2	45.2	0.290	0.290	0.290
4/19/2019	11.30	0.00	No	11.30	11.30	10.77	0.53	0.017	0.006	0.049	0.08671	**12.06**	11.30	15.2	30.7	45.9	0.290	0.290	0.290
4/20/2019	11.10	0.00	No	11.10	11.10	10.58	0.52	0.017	0.006	0.049	0.08671	**12.61**	11.10	15.6	30.0	45.6	0.290	0.290	0.290
4/21/2019	10.30	0.00	No	10.30	10.30	9.82	0.48	0.017	0.006	0.049	0.08671	**12.39**	10.30	14.4	27.8	42.2	0.290	0.290	0.290
4/22/2019	9.45	0.00	No	9.45	9.45	9.01	0.44	0.017	0.006	0.049	0.08671	**11.50**	9.45	14.2	27.8	42.0	0.290	0.290	0.290
4/23/2019	9.49	0.00	No	9.49	9.49	9.05	0.44	0.017	0.006	0.049	0.08671	**10.55**	9.49	14.9	28.7	43.6	0.290	0.290	0.290
4/24/2019	9.79	0.00	No	9.79	9.79	9.33	0.46	0.017	0.006	0.049	0.08671	**10.59**	9.79	13.9	27.6	41.5	0.290	0.290	0.290
4/25/2019	9.46	0.00	No	9.46	9.46	9.02	0.44	0.017	0.006	0.049	0.08671	**10.93**	9.46	13.3	23.7	37.0	0.290	0.290	0.290
4/26/2019	8.47	0.00	No	8.47	8.47	8.07	0.40	0.017	0.006	0.049	0.08671	**10.56**	8.47	13.0	25.2	38.2	0.290	0.290	0.290
4/27/2019	8.42	0.00	No	8.42	8.42	8.03	0.39	0.017	0.006	0.049	0.08671	**9.46**	8.42	12.7	25.6	38.3	0.290	0.290	0.290
4/28/2019	9.85	0.00	No	9.85	9.85	9.39	0.46	0.017	0.006	0.049	0.08671	**9.40**	9.85	13.3	32.3	45.6	0.290	0.290	0.290
4/29/2019	20.00	0.00	No	20.00	20.00	19.06	0.94	0.017	0.006	0.040	0.07512	**11.00**	20.00	18.6	36.6	55.2	0.290	0.290	0.233
4/30/2019	22.60	0.00	Yes	22.60	22.60	21.54	1.06	0.017	0.006	0.040	0.07512	**22.61**	22.60	25.9	50.5	76.4	0.290	0.290	0.233
5/1/2019	26.50	0.00	Yes									**25.55**		27.8	51.0				
												478.22							

Red numbers indicate estimated data due to missing or incomplete SatMon data
Blue numbers indicate revised data based upon hydro adjustments

Limit Check		Return Flows		
LAWMA's 02CW181 Portion	LAWMA's 10CW85 Portion	LAWMA's 02CW181 Portion	LAWMA's 10CW85 Portion	Total
17.54	0.86	6.73	0.33	7.06
18.97	0.93	7.28	0.35	7.64
22.40	1.10	8.60	0.42	9.02
20.49	1.01	7.87	0.38	8.25
19.54	0.96	7.50	0.36	7.87
20.21	0.99	7.76	0.38	8.14
20.21	0.99	7.76	0.38	8.14
18.78	0.92	7.21	0.35	7.56
17.54	0.86	6.73	0.33	7.06
15.92	0.78	6.11	0.30	6.41
16.40	0.80	6.30	0.31	6.60
14.97	0.73	5.75	0.28	6.03
13.44	0.66	5.16	0.25	5.41
12.39	0.61	4.76	0.23	4.99
11.53	0.57	4.43	0.21	4.64
11.44	0.56	4.39	0.21	4.61
10.77	0.53	4.14	0.20	4.34
10.29	0.51	3.95	0.19	4.14
10.77	0.53	4.14	0.20	4.34
10.58	0.52	4.06	0.20	4.26
9.82	0.48	3.77	0.18	3.95
9.01	0.44	3.46	0.17	3.63
9.05	0.44	3.47	0.17	3.64
9.33	0.46	3.58	0.17	3.76
9.02	0.44	3.46	0.17	3.63
8.07	0.40	3.10	0.15	3.25
8.03	0.39	3.08	0.15	3.23
9.39	0.46	3.61	0.17	3.78
19.06	0.94	7.32	0.35	7.68
21.54	1.06	8.27	0.40	8.67

02CW181 CU factor for April =	61.6%
10CW85 CU factor for April =	62.1%
02CW181 LAWMA SHARES =	3402
10CW85 LAWMA SHARES =	167
DIVERTED SHARES =	231
TOTAL SHARES =	3800

TOTAL AF	**846**	**42**
MAX =	**1050**	**71** <<Normally 1445 for 02CW181 and 71 for 10CW85
Exceeded?	No	No

02CW181 Cumulative Annual LAWMA=	**846**
02CW181 Annual Limit LAWMA=	12862
10CW85 Cumulative Annual Leased=	**42**
10CW85 Annual Limit Leased=	602

521.1056456	100%	521.1
25.78806927	100%	25.79

LAWMA Highland Accounting 2019

Daily Delivery of Highland Canal Direct Flow Consumptive Use Credits
April 2019

Date	In Stream in Priority (cfs)	LAWMA's Instream Portion (cfs)	Transit Loss to JMR (%)	Arrival Rate at JMR (cfs)	Arrival Quantity at JMR (ac-ft)	Computed CU Water at JMR (ac-ft)	C.U. Transit Loss Credit to LAWMA (ac-ft)	Delivery for In-State Replacement (Yes/No)	Delivery to Permanent Pool (Yes/No)	Bypassed for In-State Replacement (ac-ft)	Amount of CU Water to Permanent Pool (ac-ft)	Amount of CU Water to Offset Account (ac-ft)	Adjustment (ac-ft)	Flow Measurement @ Center Farm Aug Station (cfs)	Amount of CU Water @ CF Aug Station (ac-ft)
4/2/2019	18.40	18.40	0.07512	16.90	33.52	20.66	1.23	No	Yes	0.00	0.00	20.66	0.00	0.00	0.00
4/3/2019	19.90	19.90	0.07512	18.41	36.51	22.50	1.27	No	Yes	0.00	0.00	22.50	0.00	0.00	0.00
4/4/2019	23.50	23.50	0.07512	21.73	43.11	26.57	1.59	No	Yes	0.00	0.00	26.57	0.00	0.00	0.00
4/5/2019	21.50	21.50	0.07512	19.88	39.44	24.31	1.41	No	Yes	0.00	0.00	24.31	0.00	0.00	0.00
4/6/2019	20.50	20.50	0.07512	18.96	37.61	23.17	1.32	No	Yes	0.00	0.00	23.17	0.00	0.00	0.00
4/7/2019	21.20	21.20	0.07512	19.61	38.89	23.97	1.37	No	Yes	0.00	0.00	23.97	0.00	0.00	0.00
4/8/2019	21.20	21.20	0.07512	19.61	38.89	23.97	1.37	No	Yes	0.00	0.00	23.97	0.00	0.00	0.00
4/9/2019	19.70	19.70	0.07512	18.22	36.14	22.27	1.25	No	Yes	0.00	0.00	22.27	0.00	0.00	0.00
4/10/2019	18.40	18.40	0.07512	17.02	33.75	20.80	1.13	No	Yes	0.00	0.00	20.80	0.00	0.00	0.00
4/11/2019	16.70	16.70	0.07512	15.45	30.64	18.88	1.01	No	Yes	0.00	0.00	18.88	0.00	0.00	0.00
4/12/2019	17.20	17.20	0.07512	15.91	31.55	19.44	1.04	No	Yes	0.00	0.00	19.44	0.00	0.00	0.00
4/13/2019	15.70	15.70	0.07512	14.52	28.80	17.75	0.93	No	Yes	0.00	0.00	17.75	0.00	0.00	0.00
4/14/2019	14.10	14.10	0.07512	13.04	25.87	15.94	0.81	No	Yes	0.00	0.00	15.94	0.00	0.00	0.00
4/15/2019	13.00	13.00	0.07512	12.02	23.85	14.70	0.73	No	Yes	0.00	0.00	14.70	0.00	0.00	0.00
4/16/2019	12.10	12.10	0.08671	11.05	21.92	13.51	0.77	No	Yes	0.00	0.00	13.51	0.00	0.00	0.00
4/17/2019	12.00	12.00	0.08671	10.96	21.74	13.40	0.76	No	Yes	0.00	0.00	13.40	0.00	0.00	0.00
4/18/2019	11.30	11.30	0.08671	10.32	20.47	12.61	0.71	No	Yes	0.00	0.00	12.61	0.00	0.00	0.00
4/19/2019	10.80	10.80	0.08671	9.86	19.56	12.06	0.68	No	Yes	0.00	0.00	12.06	0.00	0.00	0.00
4/20/2019	11.30	11.30	0.08671	10.32	20.47	12.61	0.71	No	Yes	0.00	0.00	12.61	0.00	0.00	0.00
4/21/2019	11.10	11.10	0.08671	10.14	20.11	12.39	0.69	No	Yes	0.00	0.00	12.39	0.00	0.00	0.00
4/22/2019	10.30	10.30	0.08671	9.41	18.66	11.50	0.63	No	Yes	0.00	0.00	11.50	0.00	0.00	0.00
4/23/2019	9.45	9.45	0.08671	8.63	17.12	10.55	0.57	No	Yes	0.00	0.00	10.55	0.00	0.00	0.00
4/24/2019	9.49	9.49	0.08671	8.67	17.19	10.59	0.58	No	Yes	0.00	0.00	10.59	0.00	0.00	0.00
4/25/2019	9.79	9.79	0.08671	8.94	17.73	10.93	0.60	No	Yes	0.00	0.00	10.93	0.00	0.00	0.00
4/26/2019	9.46	9.46	0.08671	8.64	17.14	10.56	0.57	No	Yes	0.00	0.00	10.56	0.00	0.00	0.00
4/27/2019	8.47	8.47	0.08671	7.74	15.34	9.46	0.51	No	Yes	0.00	0.00	9.46	0.00	0.00	0.00
4/28/2019	8.42	8.42	0.08671	7.69	15.25	9.40	0.50	No	Yes	0.00	0.00	9.40	0.00	0.00	0.00
4/29/2019	9.85	9.85	0.08671	9.00	17.84	11.00	0.61	No	Yes	0.00	0.00	11.00	0.00	0.00	0.00
4/30/2019	20.00	20.00	0.07512	18.50	36.69	22.61	1.27	No	Yes	0.00	0.00	22.61	0.00	0.00	0.00
5/1/2019	22.60	22.60	0.07512	20.90	41.46	25.55	1.51	No	Yes	0.00	0.00	25.55	0.00	0.00	0.00
Totals													0.00		

	Entire Month of April
Total In Stream Priority	**887.48**
LAWMA's Instream Portion	**887.48**
Arrival Amount at JMR	**817.27**
Return Flow Obligation	**57.27**
Transit Loss (LAWMA's Instream Portion - Arrival Amount at JMR)	**70.21**
CU Arrival at JMR	**503.63**
Total CU Bypassed for In-State Replacement	**0.00**
Total CU Water to Permanent Pool	**0.00**
Total CU Water to Offset Account	**503.63**
Total CU Transit Loss to LAWMA (CU Portions prorated between 02CW181 & 10CW85)	**28.13**
Total CU Transit Loss to LAWMA (Bypass for In-State Replacement)	**0.00**
Total CU Transit Loss to LAWMA (Permanent Pool)	**28.13**
Total CU Transit Loss to LAWMA (Offset Account)	**0.00**

LAWMA Highland Accounting 2019

	1	2	3	4	5	6	6B	7	8	9	10	11	12	13	14	15	16	17	18
Date	Purgatoire @ Highland River Gage	Canal Flume	WD 67 River Call?	Available in Priority No 67 Call	In Stream in Priority	LAWMA's 02CW181 Portion	LAWMA's 10CW85 Portion	trloss#1	trloss#2	trloss#3	LAWMA tlossfctr	**crdtoffst**	Purg@hgh	Purg@LA	Ark@LA	Arkconfl	factor#1	factor#2	factor#3
5/1/2019	26.50	0.00	Yes	26.50	24.00	22.88	1.12	0.017	0.006	0.040	0.07512	**acre ft**	26.5	27.80	51.00	78.80	0.290	0.290	0.233
5/2/2019	27.40	0.00	Yes	27.40	24.00	22.88	1.12	0.017	0.006	0.040	0.07512	**29.78**	27.4	38.00	48.90	86.90	0.290	0.290	0.233
5/3/2019	45.30	0.00	Yes	45.30	24.00	22.88	1.12	0.017	0.006	0.026	0.05926	**29.78**	45.3	40.50	122.00	162.50	0.290	0.290	0.155
5/4/2019	63.60	0.00	Yes	62.50	24.00	22.88	1.12	0.014	0.005	0.019	0.04466	**30.29**	63.6	62.80	257.00	319.80	0.233	0.233	0.110
5/5/2019	63.00	0.00	Yes	62.50	24.00	22.88	1.12	0.014	0.005	0.019	0.04466	**30.76**	63.0	69.10	279.00	348.10	0.233	0.233	0.110
5/6/2019	49.10	0.00	Yes	49.10	24.00	22.88	1.12	0.017	0.005	0.019	0.04875	**30.76**	49.1	55.20	246.00	301.20	0.290	0.233	0.110
5/7/2019	39.60	0.00	Yes	39.60	24.00	22.88	1.12	0.017	0.006	0.021	0.05337	**30.63**	39.6	47.80	192.00	239.80	0.290	0.290	0.126
5/8/2019	35.00	0.00	Yes	35.00	24.00	22.88	1.12	0.017	0.006	0.026	0.05926	**30.48**	35.0	42.60	140.00	182.60	0.290	0.290	0.155
5/9/2019	33.80	0.00	Yes	33.80	24.00	22.88	1.12	0.017	0.006	0.026	0.05926	**30.29**	33.8	43.70	129.00	172.70	0.290	0.290	0.155
5/10/2019	34.60	0.00	Yes	34.60	24.00	22.88	1.12	0.017	0.006	0.026	0.05926	**30.29**	34.6	41.50	130.00	171.50	0.290	0.290	0.155
5/11/2019	60.00	0.00	Yes	60.00	24.00	22.88	1.12	0.014	0.006	0.026	0.05517	**30.29**	60.0	45.10	137.00	182.10	0.233	0.290	0.155
5/12/2019	95.10	0.00	Yes	62.50	24.00	22.88	1.12	0.014	0.005	0.019	0.04466	**30.42**	95.1	89.70	215.00	304.70	0.233	0.233	0.110
5/13/2019	158.00	0.00	Yes	62.50	24.00	22.88	1.12	0.009	0.004	0.019	0.03798	**30.76**	158.0	114.00	303.00	417.00	0.155	0.188	0.110
5/14/2019	177.00	0.00	Yes	62.50	24.00	22.88	1.12	0.009	0.003	0.019	0.0372	**30.97**	177.0	157.00	314.00	471.00	0.155	0.155	0.110
5/15/2019	120.00	0.00	Yes	62.50	24.00	22.88	1.12	0.011	0.004	0.019	0.04035	**31.00**	120.0	117.00	326.00	443.00	0.188	0.188	0.110
5/16/2019	81.30	0.00	Yes	62.50	24.00	22.88	1.12	0.014	0.005	0.019	0.04466	**30.90**	81.3	92.60	346.00	438.60	0.233	0.233	0.110
5/17/2019	71.10	0.00	Yes	62.50	24.00	22.88	1.12	0.014	0.005	0.019	0.04466	**30.76**	71.1	89.10	256.00	345.10	0.233	0.233	0.110
5/18/2019	98.40	0.00	Yes	62.50	24.00	22.88	1.12	0.014	0.005	0.019	0.04466	**30.76**	98.4	98.80	208.00	306.80	0.233	0.233	0.110
5/19/2019	126.00	0.00	Yes	62.50	24.00	22.88	1.12	0.011	0.004	0.019	0.04035	**30.76**	126.0	122.00	193.00	315.00	0.188	0.188	0.110
5/20/2019	131.00	0.00	Yes	62.50	24.00	22.88	1.12	0.011	0.004	0.019	0.04035	**30.90**	131.0	127.00	183.00	310.00	0.188	0.188	0.110
5/21/2019	142.00	0.00	Yes	62.50	24.00	22.88	1.12	0.011	0.004	0.019	0.04035	**30.90**	142.0	135.00	231.00	366.00	0.188	0.188	0.110
5/22/2019	136.00	0.00	Yes	62.50	24.00	22.88	1.12	0.011	0.004	0.014	0.03425	**30.90**	136.0	140.00	445.00	585.00	0.188	0.188	0.080
5/23/2019	118.00	0.00	Yes	62.50	24.00	22.88	1.12	0.011	0.004	0.019	0.04035	**31.09**	118.0	134.00	364.00	498.00	0.188	0.188	0.110
5/24/2019	126.00	0.00	Yes	62.50	24.00	22.88	1.12	0.011	0.004	0.014	0.03425	**30.90**	126.0	137.00	396.00	533.00	0.188	0.188	0.080
5/25/2019	90.20	0.00	Yes	62.50	24.00	22.88	1.12	0.014	0.004	0.019	0.04358	**31.09**	90.2	118.00	375.00	493.00	0.233	0.188	0.110
5/26/2019	73.80	0.00	Yes	62.50	24.00	22.88	1.12	0.014	0.004	0.019	0.04358	**30.79**	73.8	101.00	292.00	393.00	0.233	0.188	0.110
5/27/2019	52.80	0.00	Yes	52.80	24.00	22.88	1.12	0.014	0.005	0.019	0.04466	**30.79**	52.8	84.00	280.00	364.00	0.233	0.233	0.110
5/28/2019	50.00	0.00	Yes	50.00	24.00	22.88	1.12	0.014	0.005	0.019	0.04466	**30.76**	50.0	78.30	262.00	340.30	0.233	0.233	0.110
5/29/2019	36.00	0.00	Yes	36.00	24.00	22.88	1.12	0.017	0.005	0.019	0.04875	**30.76**	36.0	69.60	257.00	326.60	0.290	0.233	0.110
5/30/2019	34.50	0.00	Yes	34.50	24.00	22.88	1.12	0.017	0.005	0.019	0.04875	**30.63**	34.5	59.10	264.00	323.10	0.290	0.233	0.110
5/31/2019	34.00	0.00	Yes	34.00	24.00	22.88	1.12	0.017	0.005	0.019	0.04875	**30.63**	34.0	52.60	267.00	319.60	0.290	0.233	0.110
6/1/2019	31.90	0.00	Yes	31.90	24.00	22.88	1.12	0.017	0.006	0.021	0.05337	**30.63**	31.9	47.90	244.00	291.90	0.290	0.290	0.126

Limit Check		Return Flows		
LAWMA's 02CW181 Portion	LAWMA's 10CW85 Portion	LAWMA's 02CW181 Portion	LAWMA's 10CW85 Portion	Total
22.88	1.12	7.41	0.36	7.77

Red numbers indicate estimated data due to missing or incomplete SatMon data

Blue numbers indicate revised data based upon hydro adjustments

TOTAL AF	**1407**	**69**
MAX =	**1854**	**91** <<Normally 1854 for 02CW181 and 91 for 10CW85
Exceeded?	No	No

02CW181 CU factor for May =	67.6%
10CW85 CU factor for May =	68.3%
02CW181 LAWMA SHARES =	3402
10CW85 LAWMA SHARES =	167
DIVERTED SHARES =	231
TOTAL SHARES =	3800

02CW181 Cumulative Annual LAWMA=	**2253**
02CW181 Annual Limit LAWMA=	12862
10CW85 Cumulative Annual Leased=	**111**
10CW85 Annual Limit Leased=	602

950.9104008	100%	950.9
47	7%	3.301

LAWMA Highland Accounting 2019

Daily Delivery of Highland Canal Direct Flow Consumptive Use Credits
May 2019

Date	In Stream in Priority (cfs)	LAWMA's Instream Portion (cfs)	Transit Loss to JMR (%)	Arrival Rate at JMR (cfs)	Arrival Quantity at JMR (ac-ft)	Computed CU Water at JMR (ac-ft)	C.U. Transit Loss Credit to LAWMA (ac-ft)	Delivery for In-State Replacement (Yes/No)	Delivery to Permanent Pool (Yes/No)	Bypassed for In-State Replacement (ac-ft)	Amount of CU Water to Permanent Pool (ac-ft)	Amount of CU Water to Offset Account (ac-ft)	Adjustment (ac-ft)	Flow Measurement @ Center Farm Aug Station (cfs)	Amount of CU Water @ CF Aug Station (ac-ft)
5/2/2019	24.00	24.00	0.07512	22.20	44.03	29.78	1.83	No	Yes	0.00	13.47	16.31	0.00	15.30	17.69
5/3/2019	24.00	24.00	0.07512	22.20	44.03	29.78	1.83	No	Yes	0.00	9.24	20.53	0.00	11.00	12.72
5/4/2019	24.00	24.00	0.05926	22.58	44.78	30.29	1.53	No	Yes	0.00	10.62	19.67	0.00	12.40	14.34
5/5/2019	24.00	24.00	0.04466	22.93	45.48	30.76	1.15	No	Yes	0.00	10.82	19.94	0.00	12.60	14.57
5/6/2019	24.00	24.00	0.04466	22.93	45.48	30.76	1.15	No	Yes	0.00	8.85	21.91	0.00	10.60	12.26
5/7/2019	24.00	24.00	0.04875	22.83	45.28	30.63	1.26	No	Yes	0.00	9.54	21.09	0.00	11.30	13.07
5/8/2019	24.00	24.00	0.05337	22.72	45.06	30.48	1.37	No	Yes	0.00	10.91	19.56	0.00	12.70	14.69
5/9/2019	24.00	24.00	0.05926	22.58	44.78	30.29	1.49	No	Yes	0.00	8.75	21.54	0.00	10.50	12.14
5/10/2019	24.00	24.00	0.05926	22.58	44.78	30.29	1.49	No	Yes	0.00	5.97	24.32	0.00	7.67	8.87
5/11/2019	24.00	24.00	0.05926	22.58	44.78	30.29	1.49	No	Yes	0.00	5.80	24.48	0.00	7.50	8.67
5/12/2019	24.00	24.00	0.05517	22.68	44.98	30.42	1.42	No	Yes	0.00	5.12	25.30	0.00	6.80	7.86
5/13/2019	24.00	24.00	0.04466	22.93	45.48	30.76	1.15	No	Yes	0.00	4.29	26.47	0.00	5.96	6.89
5/14/2019	24.00	24.00	0.03798	23.09	45.80	30.97	0.98	No	Yes	0.00	4.07	26.90	0.00	5.74	6.64
5/15/2019	24.00	24.00	0.03720	23.11	45.83	31.00	0.96	No	Yes	0.00	4.03	26.96	0.00	5.70	6.59
5/16/2019	24.00	24.00	0.04035	23.03	45.68	30.90	1.04	No	Yes	0.00	5.09	25.81	0.00	6.77	7.83
5/17/2019	24.00	24.00	0.04466	22.93	45.48	30.76	1.15	No	Yes	0.00	3.08	27.68	0.00	4.73	5.47
5/18/2019	24.00	24.00	0.04466	22.93	45.48	30.76	1.15	No	Yes	0.00	4.95	25.81	0.00	6.63	7.67
5/19/2019	24.00	24.00	0.04466	22.93	45.48	30.76	1.15	No	Yes	0.00	7.46	23.29	0.00	9.19	10.63
5/20/2019	24.00	24.00	0.04035	23.03	45.68	30.90	1.04	No	Yes	0.00	6.17	24.73	0.00	7.87	9.10
5/21/2019	24.00	24.00	0.04035	23.03	45.68	30.90	1.04	No	Yes	0.00	5.78	25.11	0.00	7.48	8.65
5/22/2019	24.00	24.00	0.04035	23.03	45.68	30.90	1.04	No	Yes	0.00	8.17	22.72	0.00	9.91	11.46
5/23/2019	24.00	24.00	0.03425	23.18	45.97	31.09	0.88	No	Yes	0.00	9.24	21.85	0.00	11.00	12.72
5/24/2019	24.00	24.00	0.04035	23.03	45.68	30.90	1.04	No	Yes	0.00	6.69	24.21	0.00	8.40	9.71
5/25/2019	24.00	24.00	0.03425	23.18	45.97	31.09	0.88	No	Yes	0.00	4.84	26.25	0.00	6.52	7.54
5/26/2019	24.00	24.00	0.04358	22.95	45.53	30.79	1.12	No	Yes	0.00	4.57	26.22	0.00	6.25	7.23
5/27/2019	24.00	24.00	0.04358	22.95	45.53	30.79	1.12	No	Yes	0.00	3.98	26.81	0.00	5.65	6.53
5/28/2019	24.00	24.00	0.04466	22.93	45.48	30.76	1.15	No	Yes	0.00	4.22	26.54	0.00	5.89	6.81
5/29/2019	24.00	24.00	0.04466	22.93	45.48	30.76	1.15	No	Yes	0.00	3.41	27.34	0.00	5.07	5.86
5/30/2019	24.00	24.00	0.04875	22.83	45.28	30.63	1.23	No	Yes	0.00	0.00	30.63	0.00	1.53	1.77
5/31/2019	24.00	24.00	0.04875	22.83	45.28	30.63	1.23	No	Yes	0.00	5.40	25.23	0.00	7.09	8.20
6/1/2019	24.00	24.00	0.04875	22.83	45.28	30.63	1.22	No	Yes	0.00	7.87	22.76	0.00	9.73	11.25
							37.75				202.43	747.97	0.00		

	Entire Month of May	
Total In Stream Priority	**1,475.72**	
LAWMA's Instream Portion	**1,475.72**	
Arrival Amount at JMR	**1,405.24**	
Return Flow Obligation	**90.94**	
Transit Loss (LAWMA's Instream Portion - Arrival Amount at JMR)	**70.49**	
CU Arrival at JMR	**950.40**	
Total CU Bypassed for In-State Replacement	**0.00**	
Total CU Water to Permanent Pool	**202.43**	
Total CU Water to Offset Account	**747.97**	Amount per Highland Agreement
Total CU Transit Loss to LAWMA (CU Portions prorated between 02CW181 & 10CW85)	**37.75**	29.71
Total CU Transit Loss to LAWMA (Bypass for In-State Replacement)	**0.00**	
Total CU Transit Loss to LAWMA (Permanent Pool)	**8.04**	
Total CU Transit Loss to LAWMA (Offset Account)	**29.71**	

LAWMA Highland Accounting 2019

	1	2	3	4	5	6	6B	7	8	9	10	11	12	13	14	15	16	17	18
Date	Purgatoire @ Highland River Gage	Canal Flume	WD 67 River Call?	Available in Priority No 67 Call	In Stream in Priority	LAWMA's 02CW181 Portion	LAWMA's 10CW85 Portion	trloss#1	trloss#2	trloss#3	LAWMA tlossfctr	**crdtoffst**	Purg@hgh	Purg@LA	Ark@LA	Arkconfl	factor#1	factor#2	factor#3
6/1/2019	31.90	0.00	Yes	31.90	24.00	22.88	1.12	0.017	0.006	0.021	0.05337	**acre ft**	31.9	47.9	244.0	291.9	0.290	0.290	0.126
6/2/2019	32.00	0.00	Yes	32.00	24.00	22.88	1.12	0.017	0.006	0.019	0.05011	**33.91**	32.0	44.1	282.0	326.1	0.290	0.290	0.110
6/3/2019	41.70	0.00	Yes	41.70	24.00	22.88	1.12	0.017	0.005	0.019	0.04875	**34.03**	41.7	50.1	319.0	369.1	0.290	0.233	0.110
6/4/2019	43.30	0.00	Yes	43.30	24.00	22.88	1.12	0.017	0.005	0.019	0.04875	**34.08**	43.3	60.2	330.0	390.2	0.290	0.233	0.110
6/5/2019	51.30	0.00	Yes	51.30	24.00	22.88	1.12	0.014	0.005	0.019	0.04466	**34.08**	51.3	68.3	320.0	388.3	0.233	0.233	0.110
6/6/2019	47.30	0.00	Yes	47.30	24.00	22.88	1.12	0.017	0.005	0.014	0.04265	**34.22**	47.3	64.4	442.0	506.4	0.290	0.233	0.080
6/7/2019	70.50	0.00	Yes	62.50	24.00	22.88	1.12	0.014	0.005	0.019	0.04466	**34.29**	70.5	66.0	382.0	448.0	0.233	0.233	0.110
6/8/2019	210.00	0.00	Yes	62.50	24.00	22.88	1.12	0.008	0.004	0.019	0.0359	**34.22**	210.0	135.0	218.0	353.0	0.126	0.188	0.110
6/9/2019	238.00	0.00	Yes	62.50	24.00	22.88	1.12	0.008	0.003	0.019	0.03511	**34.54**	238.0	164.0	160.0	324.0	0.126	0.155	0.110
6/10/2019	251.00	0.00	Yes	62.50	24.00	22.88	1.12	0.008	0.003	0.021	0.03837	**34.56**	251.0	175.0	120.0	295.0	0.126	0.155	0.126
6/11/2019	270.00	0.00	Yes	62.50	24.00	22.88	1.12	0.008	0.003	0.019	0.03511	**34.45**	270.0	180.0	187.0	367.0	0.126	0.155	0.110
6/12/2019	292.00	0.00	Yes	62.50	24.00	22.88	1.12	0.008	0.003	0.014	0.02901	**34.56**	292.0	191.0	577.0	768.0	0.126	0.155	0.080
6/13/2019	346.00	0.00	Yes	62.50	24.00	22.88	1.12	0.007	0.003	0.000	0.01091	**34.78**	346.0	219.0	1000.0	1219.0	0.110	0.126	FALSE
6/14/2019	341.00	0.00	Yes	62.50	24.00	22.88	1.12	0.007	0.003	0.014	0.02717	**35.43**	341.0	219.0	868.0	1087.0	0.110	0.126	0.080
6/15/2019	417.00	0.00	Yes	62.50	24.00	22.88	1.12	0.007	0.003	0.014	0.02787	**34.85**	417.0	179.0	820.0	999.0	0.110	0.155	0.080
6/16/2019	331.00	0.00	Yes	62.50	24.00	22.88	1.12	0.007	0.003	0.000	0.01091	**34.82**	331.0	251.0	1150.0	1401.0	0.110	0.126	FALSE
6/17/2019	381.00	0.00	Yes	62.50	24.00	22.88	1.12	0.007	0.003	0.000	0.01091	**35.43**	381.0	216.0	1370.0	1586.0	0.110	0.126	FALSE
6/18/2019	399.00	0.00	Yes	62.50	24.00	22.88	1.12	0.007	0.003	0.000	0.01091	**35.43**	399.0	210.0	1720.0	1930.0	0.110	0.126	FALSE
6/19/2019	378.00	0.00	Yes	62.50	24.00	22.88	1.12	0.007	0.003	0.000	0.01091	**35.43**	378.0	224.0	1690.0	1914.0	0.110	0.126	FALSE
6/20/2019	346.00	0.00	Yes	62.50	24.00	22.88	1.12	0.007	0.003	0.000	0.01091	**35.43**	346.0	211.0	1820.0	2031.0	0.110	0.126	FALSE
6/21/2019	221.00	1.49	Yes	62.50	22.51	21.46	1.05	0.008	0.003	0.000	0.01206	**35.43**	221.0	205.0	1160.0	1365.0	0.126	0.126	FALSE
6/22/2019	110.00	12.40	Yes	62.50	11.60	11.06	0.54	0.011	0.004	0.000	0.01799	**33.19**	110.0	149.0	1250.0	1399.0	0.188	0.188	FALSE
6/23/2019	61.70	3.72	Yes	62.50	20.28	19.33	0.95	0.014	0.005	0.000	0.02229	**17.00**	61.7	91.1	1400.0	1491.1	0.233	0.233	FALSE
6/24/2019	43.00	3.24	Yes	46.24	20.76	19.79	0.97	0.017	0.005	0.000	0.02638	**29.60**	43.0	69.5	1550.0	1619.5	0.290	0.233	FALSE
6/25/2019	26.10	1.98	Yes	28.08	22.02	20.99	1.03	0.017	0.005	0.000	0.02638	**30.17**	26.1	55.9	1790.0	1845.9	0.290	0.233	FALSE
6/26/2019	84.90	1.71	Yes	62.50	22.29	21.25	1.04	0.014	0.004	0.000	0.02122	**32.00**	84.9	86.8	1980.0	2066.8	0.233	0.188	FALSE
6/27/2019	101.00	2.15	Yes	62.50	21.85	20.83	1.02	0.011	0.003	0.000	0.0172	**32.56**	101.0	114.0	1280.0	1394.0	0.188	0.155	FALSE
6/28/2019	196.00	2.90	Yes	62.50	21.10	20.11	0.99	0.009	0.003	0.014	0.0304	**32.05**	196.0	164.0	840.0	1004.0	0.155	0.126	0.080
6/29/2019	221.00	3.27	Yes	62.50	20.73	19.76	0.97	0.008	0.004	0.014	0.0298	**30.54**	221.0	213.0	742.0	955.0	0.126	0.188	0.080
6/30/2019	86.00	2.41	Yes	62.50	21.59	20.58	1.01	0.014	0.005	0.014	0.03856	**30.02**	86.0	125.0	823.0	948.0	0.233	0.233	0.080
7/1/2019	52.70	1.98	Yes									**30.98**		85.3	938.0				

Red numbers indicate estimated data due to missing or incomplete SatMon data

Blue numbers indicate revised data based upon hydro adjustments

Limit Check		Return Flows		
LAWMA's 02CW181 Portion	LAWMA's 10CW85 Portion	LAWMA's 02CW181 Portion	LAWMA's 10CW85 Portion	Total
22.88	1.12	5.67	0.27	5.94
22.88	1.12	5.67	0.27	5.94
22.88	1.12	5.67	0.27	5.94
22.88	1.12	5.67	0.27	5.94
22.88	1.12	5.67	0.27	5.94
22.88	1.12	5.67	0.27	5.94
22.88	1.12	5.67	0.27	5.94
22.88	1.12	5.67	0.27	5.94
22.88	1.12	5.67	0.27	5.94
22.88	1.12	5.67	0.27	5.94
22.88	1.12	5.67	0.27	5.94
22.88	1.12	5.67	0.27	5.94
22.88	1.12	5.67	0.27	5.94
22.88	1.12	5.67	0.27	5.94
22.88	1.12	5.67	0.27	5.94
22.88	1.12	5.67	0.27	5.94
22.88	1.12	5.67	0.27	5.94
22.88	1.12	5.67	0.27	5.94
22.88	1.12	5.67	0.27	5.94
22.88	1.12	5.67	0.27	5.94
21.46	1.05	5.32	0.25	5.57
11.06	0.54	2.74	0.13	2.87
19.33	0.95	4.79	0.22	5.02
19.79	0.97	4.91	0.23	5.14
20.99	1.03	5.21	0.24	5.45
21.25	1.04	5.27	0.25	5.52
20.83	1.02	5.17	0.24	5.41
20.11	0.99	4.99	0.23	5.22
19.76	0.97	4.90	0.23	5.13
20.58	1.01	5.10	0.24	5.34

02CW181 CU factor for June =	75.2%
10CW85 CU factor for June =	76.3%
02CW181 LAWMA SHARES =	3402
10CW85 LAWMA SHARES =	167
DIVERTED SHARES =	231
TOTAL SHARES =	3800

TOTAL AF	**1295**	**64**	
MAX =	**1715**	**74**	<<Normally 2172 for 02CW181 and 107 for 10CW85
Exceeded?	No	No	

02CW181 Cumulative Annual LAWMA=	**3547**
02CW181 Annual Limit LAWMA=	12862
10CW85 Cumulative Annual Leased=	**174**
10CW85 Annual Limit Leased=	602

973.54754	100%	973.548
48.489312	100%	48.4893
		1022.04

LAWMA Highland Accounting 2019

Daily Delivery of Highland Canal Direct Flow Consumptive Use Credits
June 2019

Date	In Stream in Priority (cfs)	LAWMA's Instream (cfs)	Transit Loss to JMR (%)	Arrival Rate at JMR (cfs)	Arrival Quantity at JMR (ac-ft)	Computed CU Water at JMR (ac-ft)	C.U. Transit Loss Credit to LAWMA (ac-ft)	Delivery for In-State Replacement (Yes/No)	Delivery to Permanent Pool (Yes/No)	Bypassed for In-State Replacement (ac-ft)	Amount of CU Water to Permanent Pool (ac-ft)	Amount of CU Water to Offset Account (ac-ft)	Adjustment (ac-ft)	Flow Measurement @ Center Farm Aug Station (cfs)	Amount of CU Water @ CF Aug Station (ac-ft)
6/2/2019	24.00	24.00	0.05337	22.72	45.06	33.91	1.48	No	Yes	0.00	7.68	26.23	0.00	9.54	11.03
6/3/2019	24.00	24.00	0.05011	22.80	45.22	34.03	1.39	No	Yes	0.00	6.77	27.26	0.00	8.61	9.96
6/4/2019	24.00	24.00	0.04875	22.83	45.28	34.08	1.40	No	Yes	0.00	6.99	27.08	0.00	8.84	10.22
6/5/2019	24.00	24.00	0.04875	22.83	45.28	34.08	1.40	No	Yes	0.00	7.35	26.73	0.00	9.20	10.64
6/6/2019	24.00	24.00	0.04466	22.93	45.48	34.22	1.28	No	Yes	0.00	6.89	27.34	0.00	8.73	10.10
6/7/2019	24.00	24.00	0.04265	22.98	45.57	34.29	1.22	No	Yes	0.00	7.43	26.87	0.00	9.28	10.73
6/8/2019	24.00	24.00	0.04466	22.93	45.48	34.22	1.28	No	Yes	0.00	7.70	26.52	0.00	9.56	11.05
6/9/2019	24.00	24.00	0.03590	23.14	45.89	34.54	1.03	No	Yes	0.00	7.70	26.84	0.00	9.56	11.05
6/10/2019	24.00	24.00	0.03511	23.16	45.93	34.56	1.01	No	Yes	0.00	7.52	27.04	0.00	9.38	10.85
6/11/2019	24.00	24.00	0.03837	23.08	45.78	34.45	1.10	No	Yes	0.00	9.51	24.94	0.00	11.40	13.18
6/12/2019	24.00	24.00	0.03511	23.16	45.93	34.56	1.01	No	Yes	0.00	11.38	23.19	0.00	13.30	15.38
6/13/2019	24.00	24.00	0.02901	23.30	46.22	34.78	0.83	No	Yes	0.00	11.87	22.91	0.00	13.80	15.96
6/14/2019	24.00	24.00	0.01091	23.74	47.08	35.43	0.31	No	Yes	0.00	11.97	23.46	0.00	13.90	16.07
6/15/2019	24.00	24.00	0.02717	23.35	46.31	34.85	0.78	No	Yes	0.00	18.16	16.69	0.00	20.20	23.36
6/16/2019	24.00	24.00	0.02787	23.33	46.28	34.82	0.80	No	Yes	0.00	20.22	14.60	0.00	22.30	25.79
6/17/2019	24.00	24.00	0.01091	23.74	47.08	35.43	0.31	No	Yes	0.00	21.50	13.93	0.00	23.60	27.29
6/18/2019	24.00	24.00	0.01091	23.74	47.08	35.43	0.31	No	Yes	0.00	22.39	13.05	0.00	24.50	28.33
6/19/2019	24.00	24.00	0.01091	23.74	47.08	35.43	0.31	No	Yes	0.00	22.29	13.14	0.00	24.40	28.22
6/20/2019	24.00	24.00	0.01091	23.74	47.08	35.43	0.31	No	Yes	0.00	21.50	13.93	0.00	23.60	27.29
6/21/2019	24.00	24.00	0.01091	23.74	47.08	35.43	0.31	No	Yes	0.00	20.03	15.40	0.00	22.10	25.56
6/22/2019	22.51	22.51	0.01206	22.24	44.11	33.19	0.32	No	Yes	0.00	17.96	15.23	0.00	20.00	23.13
6/23/2019	11.60	11.60	0.01799	11.39	22.59	17.00	0.25	No	Yes	0.00	12.85	4.15	0.00	14.80	17.11
6/24/2019	20.28	20.28	0.02229	19.83	39.33	29.60	0.54	No	Yes	0.00	11.97	17.63	0.00	13.90	16.07
6/25/2019	20.76	20.76	0.02638	20.21	40.09	30.17	0.65	No	Yes	0.00	11.97	18.20	0.00	13.90	16.07
6/26/2019	22.02	22.02	0.02638	21.44	42.52	32.00	0.65	No	Yes	0.00	11.97	20.03	0.00	13.90	16.07
6/27/2019	22.29	22.29	0.02122	21.82	43.27	32.56	0.56	No	Yes	0.00	12.07	20.50	0.00	14.00	16.19
6/28/2019	21.85	21.85	0.01720	21.47	42.59	32.05	0.45	No	Yes	0.00	11.57	20.48	0.00	13.50	15.61
6/29/2019	21.10	21.10	0.03040	20.46	40.58	30.54	0.77	No	Yes	0.00	10.98	19.55	0.00	12.90	14.92
6/30/2019	20.73	20.73	0.02980	20.11	39.89	30.02	0.74	No	Yes	0.00	10.59	19.43	0.00	12.50	14.45
7/1/2019	21.59	21.59	0.03856	20.76	41.17	30.98	0.99	No	Yes	0.00	12.08	18.90	0.00	14.10	16.30
							23.80				380.85	611.26			
													0.00		

	Entire Month of June	
Total In Stream Priority	**1,358.16**	
LAWMA's Instream Portion	**1,358.16**	
Arrival Amount at JMR	**1,318.40**	
Return Flow Obligation	**78.61**	
Transit Loss (LAWMA's Instream Portion - Arrival Amount at JMR)	**39.77**	
CU Arrival at JMR	**992.11**	
Total CU Bypassed for In-State Replacement	**0.00**	
Total CU Water to Permanent Pool	**380.85**	
Total CU Water to Offset Account	**611.26**	Amount per Highland Agreement
Total CU Transit Loss to LAWMA (Prorated between 02CW181 & 10CW85)	**23.80**	14.66
Total CU Transit Loss to LAWMA (Bypass for In-State Replacement)	**0.00**	
Total CU Transit Loss to LAWMA (Permanent Pool)	**9.14**	
Total CU Transit Loss to LAWMA (Offset Account)	**14.66**	

LAWMA Highland Accounting 2019

	1	2	3	4	5	6	6B	7	8	9	10	11	12	13	14	15	16	17	18
Date	Purgatoire @ Highland River Gage	Canal Flume	WD 67 River Call?	Available in Priority No 67 Call	In Stream in Priority	LAWMA's 02CW181 Portion	LAWMA's 10CW85 Portion	trloss#1	trloss#2	trloss#3	LAWMA tlossfctr	**crdtoffst**	Purg@hgh	Purg@LA	Ark@LA	Arkconfl	factor#1	factor#2	factor#3
												acre ft							
7/1/2019	52.70	1.98	Yes	54.68	22.02	20.99	1.03	0.014	0.005	0.014	0.03855904	**33.24**	52.7	85.30	938.00	1023.30	0.233	0.233	0.080
7/2/2019	46.90	1.58	Yes	48.48	22.42	21.37	1.05	0.017	0.005	0.000	0.02638376	**33.24**	46.9	68.10	1450.00	1518.10	0.290	0.233	FALSE
7/3/2019	44.90	1.25	Yes	46.15	22.75	21.69	1.06	0.017	0.005	0.000	0.02638376	**34.27**	44.9	66.40	1710.00	1776.40	0.290	0.233	FALSE
7/4/2019	64.50	1.33	Yes	62.50	22.67	21.61	1.06	0.014	0.005	0.000	0.02229344	**34.78**	64.5	71.70	1610.00	1681.70	0.233	0.233	FALSE
7/5/2019	59.90	1.13	Yes	61.03	22.87	21.80	1.07	0.014	0.005	0.000	0.02229344	**34.80**	59.9	78.60	1410.00	1488.60	0.233	0.233	FALSE
7/6/2019	36.60	0.91	Yes	37.51	23.10	22.01	1.08	0.017	0.005	0.000	0.02638376	**35.11**	36.6	64.30	1590.00	1654.30	0.290	0.233	FALSE
7/7/2019	26.30	0.80	Yes	27.10	23.20	22.12	1.09	0.017	0.006	0.000	0.0277472	**35.31**	26.3	47.30	1810.00	1857.30	0.290	0.290	FALSE
7/8/2019	38.80	0.85	Yes	39.65	23.15	22.07	1.08	0.017	0.006	0.000	0.0277472	**35.42**	38.8	34.20	1930.00	1964.20	0.290	0.290	FALSE
7/9/2019	104.00	1.01	Yes	62.50	22.99	21.91	1.08	0.011	0.005	0.000	0.01906424	**35.34**	104.0	91.30	2030.00	2121.30	0.188	0.233	FALSE
7/10/2019	101.00	1.00	Yes	62.50	23.00	21.92	1.08	0.011	0.004	0.000	0.01798784	**35.41**	101.0	121.00	1800.00	1921.00	0.188	0.188	FALSE
7/11/2019	76.00	1.02	Yes	62.50	22.98	21.90	1.08	0.014	0.005	0.000	0.02229344	**35.47**	76.0	96.10	1510.00	1606.10	0.233	0.233	FALSE
7/12/2019	51.40	0.99	Yes	52.39	23.02	21.94	1.08	0.014	0.005	0.000	0.02229344	**35.28**	51.4	74.80	1200.00	1274.80	0.233	0.233	FALSE
7/13/2019	35.40	0.99	Yes	36.39	23.02	21.94	1.08	0.017	0.005	0.014	0.04264936	**35.33**	35.4	50.70	1080.00	1130.70	0.290	0.233	0.080
7/14/2019	24.60	0.90	Yes	25.50	23.10	22.02	1.08	0.017	0.006	0.014	0.0440128	**34.60**	24.6	38.30	927.00	965.30	0.290	0.290	0.080
7/15/2019	16.40	0.80	Yes	17.20	16.40	15.63	0.77	0.017	0.006	0.014	0.0440128	**34.68**	16.4	24.80	871.00	895.80	0.290	0.290	0.080
7/16/2019	14.40	0.79	Yes	15.19	14.40	13.73	0.67	0.017	0.006	0.014	0.0440128	**24.62**	14.4	18.80	911.00	929.80	0.290	0.290	0.080
7/17/2019	16.50	0.79	Yes	17.29	16.50	15.73	0.77	0.017	0.006	0.014	0.0440128	**21.62**	16.5	20.00	965.00	985.00	0.290	0.290	0.080
7/18/2019	13.00	0.79	Yes	13.79	13.00	12.39	0.61	0.017	0.006	0.014	0.0440128	**24.77**	13.0	17.90	952.00	969.90	0.290	0.290	0.080
7/19/2019	9.78	0.79	Yes	10.57	9.78	9.32	0.46	0.017	0.006	0.014	0.0440128	**19.51**	9.8	12.50	671.00	683.50	0.290	0.290	0.080
7/20/2019	9.59	0.86	Yes	10.45	9.59	9.14	0.45	0.017	0.006	0.019	0.0501124	**14.68**	9.6	13.40	454.00	467.40	0.290	0.290	0.110
7/21/2019	10.70	0.69	Yes	11.39	10.70	10.20	0.50	0.017	0.006	0.014	0.0440128	**14.30**	10.7	20.00	515.00	535.00	0.290	0.290	0.080
7/22/2019	328.00	0.67	Yes	62.50	23.33	22.24	1.09	0.007	0.005	0.014	0.02973256	**16.06**	328.0	88.30	930.00	1018.30	0.110	0.233	0.080
7/23/2019	114.00	0.46	Yes	62.50	23.54	22.43	1.10	0.011	0.003	0.000	0.0165048	**35.54**	114.0	265.00	1050.00	1315.00	0.188	0.126	FALSE
7/24/2019	48.80	0.06	Yes	48.86	23.94	22.82	1.12	0.017	0.005	0.014	0.04264936	**36.35**	48.8	94.80	1030.00	1124.80	0.290	0.233	0.080
7/25/2019	23.80	0.00	Yes	23.80	23.80	22.69	1.11	0.017	0.006	0.014	0.0440128	**35.99**	23.8	43.30	898.00	941.30	0.290	0.290	0.080
7/26/2019	17.40	0.00	Yes	17.40	17.40	16.59	0.81	0.017	0.006	0.014	0.0440128	**35.72**	17.4	25.90	663.00	688.90	0.290	0.290	0.080
7/27/2019	26.70	0.00	Yes	26.70	24.00	22.88	1.12	0.017	0.006	0.014	0.0440128	**26.12**	26.7	31.10	689.00	720.10	0.290	0.290	0.080
7/28/2019	17.00	0.00	Yes	17.00	17.00	16.20	0.80	0.017	0.006	0.014	0.0440128	**36.03**	17.0	27.00	609.00	636.00	0.290	0.290	0.080
7/29/2019	14.10	0.00	Yes	14.10	14.10	13.44	0.66	0.017	0.006	0.014	0.0440128	**25.52**	14.1	22.50	635.00	657.50	0.290	0.290	0.080
7/30/2019	14.30	0.00	Yes	14.30	14.30	13.63	0.67	0.017	0.006	0.014	0.0440128	**21.16**	14.3	16.70	585.00	601.70	0.290	0.290	0.080
7/31/2019	18.10	0.00	Yes	18.10	18.10	17.25	0.85	0.017	0.006	0.019	0.0501124	**21.46**	18.1	20.00	463.00	483.00	0.290	0.290	0.110
8/1/2019	16.50	0.00	Yes									**27.00**		15.10	366.00				

Limit Check		Return Flows		
LAWMA's 02CW181 Portion	LAWMA's 10CW85 Portion	LAWMA's 02CW181 Portion	LAWMA's 10CW85 Portion	Total
20.99	1.03	4.39	0.20	4.59
21.37	1.05	4.47	0.21	4.67
21.69	1.06	4.53	0.21	4.74
21.61	1.06	4.52	0.21	4.72
21.80	1.07	4.56	0.21	4.77
22.01	1.08	4.60	0.21	4.81
22.12	1.09	4.62	0.21	4.84
22.07	1.08	4.61	0.21	4.82
21.91	1.08	4.58	0.21	4.79
21.92	1.08	4.58	0.21	4.79
21.90	1.08	4.58	0.21	4.79
21.94	1.08	4.59	0.21	4.80
21.94	1.08	4.59	0.21	4.80
22.02	1.08	4.60	0.21	4.81
15.63	0.77	3.27	0.15	3.42
13.73	0.67	2.87	0.13	3.00
15.73	0.77	3.29	0.15	3.44
12.39	0.61	2.59	0.12	2.71
9.32	0.46	1.95	0.09	2.04
9.14	0.45	1.91	0.09	2.00
10.20	0.50	2.13	0.10	2.23
22.24	1.09	4.65	0.21	4.86
22.43	1.10	4.69	0.22	4.90
22.82	1.12	4.77	0.22	4.99
22.69	1.11	4.74	0.22	4.96
16.59	0.81	3.47	0.16	3.63
22.88	1.12	4.78	0.22	5.00
16.20	0.80	3.39	0.16	3.54
13.44	0.66	2.81	0.13	2.94
13.63	0.67	2.85	0.13	2.98
17.25	0.85	3.61	0.17	3.77

Red numbers indicate estimated data due to missing or incomplete SatMon data

Blue numbers indicate revised data based upon hydro adjustments

TOTAL AF	**1154**	**57**	
MAX =	**1978**	**79**	<<Normally 2369 for 02CW181 and 116 for 10CW85
Exceeded?	No	No	

02CW181 CU factor for July =	79.1%
10CW85 CU factor for July =	80.4%
02CW181 LAWMA SHARES =	3402
10CW85 LAWMA SHARES =	167
DIVERTED SHARES =	231
TOTAL SHARES =	3800

02CW181 Cumulative Annual LAWMA=	**1795**
02CW181 Annual Limit LAWMA=	12862
10CW85 Cumulative Annual Leased=	**74**
10CW85 Annual Limit Leased=	602

912.5	100%	912.5
45.5	100%	45.5
		958.0

LAWMA Highland Accounting 2019

Daily Delivery of Highland Canal Direct Flow Consumptive Use Credits
July 2019

Date	In Stream in Priority (cfs)	LAWMA's Instream Portion (cfs)	Transit Loss to JMR (%)	Arrival Rate at JMR (cfs)	Arrival Quantity at JMR (ac-ft)	Computed CU Water at JMR (ac-ft)	C.U. Transit Loss Credit to LAWMA (ac-ft)	Delivery for In-State Replacement (Yes/No)	Delivery to Permanent Pool (Yes/No)	Bypassed for In-State Replacement (ac-ft)	Amount of CU Water to Permanent Pool (ac-ft)	Amount of CU Water to Offset Account (ac-ft)	Adjustment (ac-ft)	Flow Measurement @ Center Farm Aug Station (cfs)	Amount of CU Water @ CF Aug Station (ac-ft)
7/2/2019	22.02	22.02	0.03856	21.17	41.99	33.24	1.07	No	Yes	0.00	12.18	21.06	12.18	14.20	16.42
7/3/2019	22.42	22.42	0.02638	21.83	43.30	34.27	0.74	No	Yes	0.00	16.70	17.58	16.70	18.80	21.74
7/4/2019	22.75	22.75	0.02638	22.15	43.93	34.78	0.75	No	Yes	0.00	16.70	18.08	16.70	18.80	21.74
7/5/2019	22.67	22.67	0.02229	22.16	43.96	34.80	0.63	No	Yes	0.00	18.07	16.73	18.07	20.20	23.36
7/6/2019	22.87	22.87	0.02229	22.36	44.35	35.11	0.64	No	Yes	0.00	18.96	16.15	18.96	21.10	24.40
7/7/2019	23.10	23.10	0.02638	22.49	44.60	35.31	0.76	No	Yes	0.00	19.25	16.05	19.25	21.40	24.75
7/8/2019	23.20	23.20	0.02775	22.56	44.74	35.42	0.76	No	Yes	0.00	19.65	15.77	19.65	21.80	25.21
7/9/2019	23.15	23.15	0.02775	22.51	44.65	35.34	0.80	No	Yes	0.00	19.45	15.89	19.45	21.60	24.98
7/10/2019	22.99	22.99	0.01906	22.55	44.73	35.41	0.55	No	Yes	0.00	18.96	16.45	18.96	21.10	24.40
7/11/2019	23.00	23.00	0.01799	22.59	44.80	35.47	0.52	No	Yes	0.00	16.50	18.96	16.50	18.60	21.51
7/12/2019	22.98	22.98	0.02229	22.47	44.56	35.28	0.64	No	Yes	0.00	15.42	19.86	15.42	17.50	20.24
7/13/2019	23.02	23.02	0.02229	22.50	44.63	35.33	0.64	No	Yes	0.00	14.83	20.50	14.83	16.90	19.54
7/14/2019	23.02	23.02	0.04265	22.03	43.70	34.60	1.21	No	Yes	0.00	15.13	19.47	15.13	17.20	19.89
7/15/2019	23.10	23.10	0.04401	22.09	43.81	34.68	1.20	No	Yes	0.00	16.21	18.47	16.21	18.30	21.16
7/16/2019	16.40	16.40	0.04401	15.68	31.10	24.62	0.73	No	Yes	0.00	14.34	10.28	14.34	16.40	18.96
7/17/2019	14.40	14.40	0.04401	13.77	27.31	21.62	0.62	No	Yes	0.00	11.98	9.63	11.98	14.00	16.19
7/18/2019	16.50	16.50	0.04401	15.77	31.29	24.77	0.75	No	Yes	0.00	15.91	8.86	15.91	18.00	20.81
7/19/2019	13.00	13.00	0.04401	12.43	24.65	19.51	0.55	No	Yes	0.00	16.80	2.72	16.80	18.90	21.86
7/20/2019	9.78	9.78	0.04401	9.35	18.54	14.68	0.39	No	Yes	0.00	14.68	0.00	14.68	19.60	22.67
7/21/2019	9.59	9.59	0.05011	9.11	18.07	14.30	0.44	No	Yes	0.00	14.30	0.00	14.30	17.00	19.66
7/22/2019	10.70	10.70	0.04401	10.23	20.29	16.06	0.44	No	Yes	0.00	16.06	0.00	16.06	20.20	23.36
7/23/2019	23.33	23.33	0.02973	22.64	44.90	35.54	0.87	No	Yes	0.00	14.54	21.01	14.54	16.60	19.20
7/24/2019	23.54	23.54	0.01650	23.15	45.91	36.35	0.49	No	Yes	0.00	13.06	23.28	13.06	15.10	17.46
7/25/2019	23.94	23.94	0.04265	22.92	45.46	35.99	1.28	No	Yes	0.00	11.19	24.80	11.19	13.20	15.26
7/26/2019	23.80	23.80	0.04401	22.75	45.13	35.72	1.21	No	Yes	0.00	10.31	25.42	10.31	12.30	14.22
7/27/2019	17.40	17.40	0.04401	16.63	32.99	26.12	0.79	No	Yes	0.00	10.51	15.61	10.51	12.50	14.45
7/28/2019	24.00	24.00	0.04401	22.94	45.51	36.03	1.25	No	Yes	0.00	10.31	25.72	10.31	12.30	14.22
7/29/2019	17.00	17.00	0.04401	16.25	32.24	25.52	0.77	No	Yes	0.00	9.92	15.60	9.92	11.90	13.76
7/30/2019	14.10	14.10	0.04401	13.48	26.74	21.16	0.61	No	Yes	0.00	9.92	11.25	9.92	11.90	13.76
7/31/2019	14.30	14.30	0.04401	13.67	27.12	21.46	0.62	No	Yes	0.00	9.52	11.94	9.52	11.50	13.30
8/1/2019	18.10	18.10	0.05011	17.19	34.10	27.00	0.95	No	Yes	0.00	8.82	18.18	8.82	10.70	12.37
							23.73				453.42	476.04	450.16		

	Entire Month of July	
Total In Stream Priority	**1,210.25**	
LAWMA's Instream Portion	**1,210.25**	
Arrival Amount at JMR	**1,169.11**	
Return Flow Obligation	**67.73**	
Transit Loss (LAWMA's Instream Portion - Arrival Amount at JMR)	**41.14**	
CU Arrival at JMR	**925.48**	
Total CU Bypassed for In-State Replacement	**0.00**	
Total CU Water to Permanent Pool	**450.16**	
Total CU Water to Offset Account	**475.32**	Amount per Highland Agreement
Total CU Transit Loss to LAWMA (Prorated between 02CW181 & 10CW85)	**23.69**	12.13
Total CU Transit Loss to LAWMA (Bypass for In-State Replacement)	**0.00**	
Total CU Transit Loss to LAWMA (Permanent Pool)	**11.56**	
Total CU Transit Loss to LAWMA (Offset Account)	**12.13**	

LAWMA Highland Accounting 2019

	1	2	3	4	5	6	6B	7	8	9	10	11	12	13	14	15	16	17	18
Date	Purgatoire @ Highland River Gage	Canal Flume	WD 67 River Call?	Available in Priority No 67 Call	In Stream in Priority	LAWMA's 02CW181 Portion	LAWMA's 10CW85 Portion	trloss#1	trloss#2	trloss#3	LAWMA tlossfctr	**crdtoffst**	Purg@hgh	Purg@LA	Ark@LA	Arkconfl	factor#1	factor#2	factor#3
8/1/2019	16.50	0.00	Yes	16.50	16.50	15.73	0.77	0.017	0.006	0.019	0.050112	**acre ft**	16.5	15.10	366.00	381.10	0.290	0.290	0.110
8/2/2019	15.80	0.00	Yes	15.80	15.80	15.06	0.74	0.017	0.006	0.019	0.050112	**25.11**	15.8	18.20	303.00	321.20	0.290	0.290	0.110
8/3/2019	15.30	0.00	Yes	15.30	15.30	14.58	0.72	0.017	0.006	0.019	0.050112	**24.04**	15.3	21.40	322.00	343.40	0.290	0.290	0.110
8/4/2019	14.00	0.00	Yes	14.00	14.00	13.34	0.66	0.017	0.006	0.019	0.050112	**23.28**	14.0	17.90	406.00	423.90	0.290	0.290	0.110
8/5/2019	21.40	0.00	Yes	21.40	21.40	20.40	1.00	0.017	0.006	0.014	0.044013	**21.30**	21.4	21.90	541.00	562.90	0.290	0.290	0.080
8/6/2019	15.40	0.06	Yes	15.46	15.40	14.68	0.72	0.017	0.006	0.019	0.050112	**32.77**	15.4	22.10	431.00	453.10	0.290	0.290	0.110
8/7/2019	26.00	0.03	Yes	26.03	23.97	22.85	1.12	0.017	0.006	0.019	0.050112	**23.43**	26.0	26.10	348.00	374.10	0.290	0.290	0.110
8/8/2019	17.90	0.22	Yes	18.12	17.90	17.06	0.84	0.017	0.006	0.019	0.050112	**36.47**	17.9	25.80	393.00	418.80	0.290	0.290	0.110
8/9/2019	12.70	0.15	Yes	12.85	12.70	12.11	0.59	0.017	0.006	0.019	0.050112	**27.24**	12.7	38.70	370.00	408.70	0.290	0.290	0.110
8/10/2019	8.94	0.00	Yes	8.94	8.94	8.52	0.42	0.017	0.006	0.021	0.053366	**19.32**	8.9	27.60	255.00	282.60	0.290	0.290	0.126
8/11/2019	7.15	0.00	Yes	7.15	7.15	6.82	0.33	0.017	0.006	0.021	0.053366	**13.56**	7.2	24.30	207.00	231.30	0.290	0.290	0.126
8/12/2019	5.90	0.00	Yes	5.90	5.90	5.62	0.28	0.017	0.006	0.019	0.050112	**10.84**	5.9	39.50	286.00	325.50	0.290	0.290	0.110
8/13/2019	17.30	0.00	Yes	17.30	17.30	16.49	0.81	0.017	0.006	0.021	0.053366	**8.98**	17.3	11.70	224.00	235.70	0.290	0.290	0.126
8/14/2019	17.30	0.00	Yes	17.30	17.30	16.49	0.81	0.017	0.006	0.026	0.059262	**26.23**	17.3	23.40	150.00	173.40	0.290	0.290	0.155
8/15/2019	15.50	0.00	Yes	15.50	15.50	14.77	0.73	0.017	0.006	0.019	0.050112	**26.07**	15.5	18.00	337.00	355.00	0.290	0.290	0.110
8/16/2019	12.90	0.00	Yes	12.90	12.90	12.30	0.60	0.017	0.006	0.019	0.050112	**23.58**	12.9	15.70	377.00	392.70	0.290	0.290	0.110
8/17/2019	11.20	0.00	Yes	11.20	11.20	10.68	0.52	0.017	0.006	0.019	0.050112	**19.63**	11.2	15.40	409.00	424.40	0.290	0.290	0.110
8/18/2019	9.53	0.00	Yes	9.53	9.53	9.08	0.45	0.017	0.006	0.019	0.050112	**17.04**	9.5	13.40	373.00	386.40	0.290	0.290	0.110
8/19/2019	6.00	0.00	Yes	6.00	6.00	5.72	0.28	0.017	0.006	0.019	0.050112	**14.50**	6.0	9.51	308.00	317.51	0.290	0.290	0.110
8/20/2019	8.70	0.00	Yes	8.70	8.70	8.29	0.41	0.017	0.006	0.021	0.053366	**9.13**	8.7	6.96	233.00	239.96	0.290	0.290	0.126
8/21/2019	8.50	0.27	Yes	8.77	8.50	8.10	0.40	0.017	0.006	0.026	0.059262	**13.19**	8.5	9.62	180.00	189.62	0.290	0.290	0.155
8/22/2019	5.80	0.37	Yes	6.17	5.80	5.53	0.27	0.017	0.006	0.026	0.059262	**12.81**	5.8	10.10	145.00	155.10	0.290	0.290	0.155
8/23/2019	2.50	0.32	Yes	2.82	2.50	2.38	0.12	0.017	0.006	0.032	0.065971	**8.74**	2.5	7.51	127.00	134.51	0.290	0.290	0.188
8/24/2019	1.50	0.36	Yes	1.86	1.50	1.43	0.07	0.017	0.006	0.032	0.065971	**3.74**	1.5	6.83	115.00	121.83	0.290	0.290	0.188
8/25/2019	0.98	0.36	Yes	1.34	0.98	0.93	0.05	0.017	0.006	0.032	0.065971	**2.24**	1.0	5.44	101.00	106.44	0.290	0.290	0.188
8/26/2019	0.23	0.36	Yes	0.59	0.23	0.22	0.01	0.017	0.006	0.040	0.075121	**1.47**	0.2	4.66	77.50	82.16	0.290	0.290	0.233
8/27/2019	0.00	0.37	Yes	0.37	0.00	0.00	0.00	0.017	0.006	0.040	0.075121	**0.34**	0.0	4.30	60.00	64.30	0.290	0.290	0.233
8/28/2019	0.00	0.40	Yes	0.40	0.00	0.00	0.00	0.017	0.006	0.040	0.075121	**0.00**	0.0	3.47	59.10	62.57	0.290	0.290	0.233
8/29/2019	0.00	0.20	Yes	0.20	0.00	0.00	0.00	0.017	0.006	0.040	0.075121	**0.00**	0.0	2.78	50.10	52.88	0.290	0.290	0.233
8/30/2019	23.00	0.08	Yes	23.08	23.00	21.92	1.08	0.017	0.006	0.049	0.08671	**0.00**	23.0	2.36	42.80	45.16	0.290	0.290	0.290
8/31/2019	6.80	0.59	Yes	7.39	6.80	6.48	0.32	0.017	0.006	0.040	0.075121	**33.65**	6.8	23.00	35.90	58.90	0.290	0.290	0.233
9/1/2019	0.00	0.52	Yes									**10.07**		5.39	30.60				

Limit Check		Return Flows		
LAWMA's 02CW181 Portion	LAWMA's 10CW85 Portion	LAWMA's 02CW181 Portion	LAWMA's 10CW85 Portion	Total
15.73	0.77	3.04	0.14	3.18
15.06	0.74	2.91	0.13	3.04
14.58	0.72	2.81	0.13	2.94
13.34	0.66	2.58	0.12	2.69
20.40	1.00	3.94	0.18	4.12
14.68	0.72	2.83	0.13	2.96
22.85	1.12	4.41	0.20	4.61
17.06	0.84	3.29	0.15	3.44
12.11	0.59	2.34	0.11	2.44
8.52	0.42	1.64	0.08	1.72
6.82	0.33	1.32	0.06	1.38
5.62	0.28	1.09	0.05	1.14
16.49	0.81	3.18	0.15	3.33
16.49	0.81	3.18	0.15	3.33
14.77	0.73	2.85	0.13	2.98
12.30	0.60	2.37	0.11	2.48
10.68	0.52	2.06	0.09	2.16
9.08	0.45	1.75	0.08	1.83
5.72	0.28	1.10	0.05	1.15
8.29	0.41	1.60	0.07	1.67
8.10	0.40	1.56	0.07	1.64
5.53	0.27	1.07	0.05	1.12
2.38	0.12	0.46	0.02	0.48
1.43	0.07	0.28	0.01	0.29
0.93	0.05	0.18	0.01	0.19
0.22	0.01	0.04	0.00	0.04
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
21.92	1.08	4.23	0.19	4.43
6.48	0.32	1.25	0.06	1.31

Red numbers indicate estimated data due to missing or incomplete SatMon data

Blue numbers indicate revised data based upon hydro adjustments

TOTAL AF	**610**	**30**
MAX =	**2300**	**90** <<Normally 2570 for 02CW181 and 126 for 10CW85
Exceeded?	No	No

02CW181 CU factor for August =	80.7%
10CW85 CU factor for August =	81.9%
02CW181 LAWMA SHARES =	3402
10CW85 LAWMA SHARES =	167
DIVERTED SHARES =	231
TOTAL SHARES =	3800

02CW181 Cumulative Annual LAWMA=	**2405**
02CW181 Annual Limit LAWMA=	12862
10CW85 Cumulative Annual Leased=	**104**
10CW85 Annual Limit Leased=	602

492.3664233	100%	492.4
25	100%	24.53

LAWMA Highland Accounting 2019

Daily Delivery of Highland Canal Direct Flow Consumptive Use Credits
August 2019

Date	In Stream in Priority (cfs)	LAWMA's Instream Portion (cfs)	Transit Loss to JMR (%)	Arrival Rate at JMR (cfs)	Arrival Quantity at JMR (ac-ft)	Computed CU Water at JMR (ac-ft)	C.U. Transit Loss Credit to LAWMA (ac-ft)	Delivery for In-State Replacement (Yes/No)	Delivery to Permanent Pool (Yes/No)	Bypassed for In-State Replacement (ac-ft)	Amount of CU Water to Permanent Pool (ac-ft)	Amount of CU Water to Offset Account (ac-ft)	Adjustment (ac-ft)	Flow Measurement @ Center Farm Aug Station (cfs)	Amount of CU Water @ CF Aug Station (ac-ft)
8/2/2019	16.50	16.50	0.05011	15.10	29.95	24.19	1.79	No	Yes	0.00	10.19	13.99	460.35	12.10	13.99
8/3/2019	15.80	15.80	0.05011	15.01	29.77	24.04	1.01	No	Yes	0.00	10.29	13.75	10.29	12.20	14.11
8/4/2019	15.30	15.30	0.05011	14.53	28.83	23.28	0.98	No	Yes	0.00	10.39	12.89	10.39	12.30	14.22
8/5/2019	14.00	14.00	0.05011	13.30	26.38	21.30	0.90	No	Yes	0.00	12.85	8.45	12.85	14.80	17.11
8/6/2019	21.40	21.40	0.04401	20.46	40.58	32.77	1.21	No	Yes	0.00	13.93	18.84	13.93	15.90	18.39
8/7/2019	15.40	15.40	0.05011	14.63	29.02	23.43	0.98	No	Yes	0.00	13.93	9.50	13.93	15.90	18.39
8/8/2019	23.97	23.97	0.05011	22.77	45.16	36.47	1.45	No	Yes	0.00	13.44	23.03	13.44	15.40	17.81
8/9/2019	17.90	17.90	0.05011	17.00	33.73	27.24	1.14	No	Yes	0.00	13.24	14.00	13.24	15.20	17.58
8/10/2019	12.70	12.70	0.05011	12.06	23.93	19.32	0.82	No	Yes	0.00	13.53	5.79	13.53	15.50	17.92
8/11/2019	8.94	8.94	0.05337	8.46	16.79	13.56	0.61	No	Yes	0.00	12.95	0.61	12.95	14.90	17.23
8/12/2019	7.15	7.15	0.05337	6.77	13.43	10.84	0.49	No	Yes	0.00	10.84	0.00	10.84	15.00	17.35
8/13/2019	5.90	5.90	0.05011	5.60	11.12	8.98	0.38	No	Yes	0.00	8.98	0.00	8.98	13.80	15.96
8/14/2019	17.30	17.30	0.05337	11.70	23.21	18.74	7.03	No	Yes	0.00	11.37	7.37	11.37	13.30	15.38
8/15/2019	17.30	17.30	0.05926	16.27	32.28	26.07	1.23	No	Yes	0.00	10.88	15.19	10.88	12.80	14.80
8/16/2019	15.50	15.50	0.05011	14.72	29.20	23.58	0.80	No	Yes	0.00	12.85	10.74	12.85	14.80	17.11
8/17/2019	12.90	12.90	0.05011	12.25	24.30	19.63	0.65	No	Yes	0.00	15.80	3.83	15.80	17.80	20.58
8/18/2019	11.20	11.20	0.05011	10.64	21.10	17.04	0.59	No	Yes	0.00	15.80	1.25	15.80	17.80	20.58
8/19/2019	9.53	9.53	0.05011	9.05	17.96	14.50	0.47	No	Yes	0.00	14.50	0.00	14.50	17.40	20.12
8/20/2019	6.00	6.00	0.05011	5.70	11.30	9.13	0.28	No	Yes	0.00	9.13	0.00	9.13	17.50	20.24
8/21/2019	8.70	8.70	0.05337	6.96	13.81	11.15	1.62	No	Yes	0.00	10.09	1.05	10.09	12.00	13.88
8/22/2019	8.50	8.50	0.05926	8.00	15.86	12.81	0.48	No	Yes	0.00	8.62	4.19	8.62	10.50	12.14
8/23/2019	5.80	5.80	0.05926	5.46	10.82	8.74	0.44	No	Yes	0.00	8.52	0.22	8.52	10.40	12.03
8/24/2019	2.50	2.50	0.06597	2.34	4.63	3.74	0.21	No	Yes	0.00	3.74	0.00	3.74	10.70	12.37
8/25/2019	1.50	1.50	0.06597	1.40	2.78	2.24	0.13	No	Yes	0.00	2.24	0.00	2.24	10.50	12.14
8/26/2019	0.98	0.98	0.06597	0.92	1.82	1.47	0.08	No	Yes	0.00	1.47	0.00	1.47	10.50	12.14
8/27/2019	0.23	0.23	0.07512	0.21	0.42	0.34	0.02	No	Yes	0.00	0.34	0.00	0.34	10.50	12.14
8/28/2019	0.00	0.00	0.07512	0.00	0.00	0.00	0.00	No	Yes	0.00	0.00	0.00	0.00	10.60	12.26
8/29/2019	0.00	0.00	0.07512	0.00	0.00	0.00	0.00	No	Yes	0.00	0.00	0.00	0.00	10.40	12.03
8/30/2019	0.00	0.00	0.07512	0.00	0.00	0.00	0.00	No	Yes	0.00	0.00	0.00	0.00	10.40	12.03
8/31/2019	23.00	23.00	0.08671	2.36	4.68	3.78	20.60	No	Yes	0.00	3.78	0.00	3.78	10.90	12.60
9/1/2019	6.80	6.80	0.07512	6.29	12.47	10.07	0.55	No	Yes	0.00	10.07	0.00	10.07	11.20	12.95
							47.33				282.50	182.87	733.92		

	Entire Month of August	
Total In Stream Priority	**640.07**	
LAWMA's Instream Portion	**640.07**	
Arrival Amount at JMR	**555.31**	
Return Flow Obligation	**35.37**	
Transit Loss (LAWMA's Instream Portion - Arrival Amount at JMR)	**84.76**	
CU Arrival at JMR	**448.44**	
Total CU Bypassed for In-State Replacement	**0.00**	
Total CU Water to Permanent Pool	**283.76**	
Total CU Water to Offset Account	**164.69**	Amount per Highland Agreement
Total CU Transit Loss to LAWMA (Prorated between 02CW181 & 10CW85)	**46.92**	18.44
Total CU Transit Loss to LAWMA (Bypass for In-State Replacement)	**0.00**	
Total CU Transit Loss to LAWMA (Permanent Pool)	**28.49**	
Total CU Transit Loss to LAWMA (Offset Account)	**18.44**	

LAWMA Highland Accounting 2019

	1	2	3	4	5	6	6B	7	8	9	10	11	12	13	14	15	16	17	18
Date	Purgatoire @ Highland River Gage	Canal Flume	WD 67 River Call?	Available in Priority No 67 Call	In Stream in Priority	LAWMA's 02CW181 Portion	LAWMA's 10CW85 Portion	trloss#1	trloss#2	trloss#3	LAWMA tlossfctr	crdtoffst	Purg@hgh	Purg@LA	Ark@LA	Arkconfl	factor#1	factor#2	factor#3
9/1/2019	0.00	0.52	Yes	0.52	0.00	0.00	0.00	0.017	0.006	0.049	0.08671	acre ft	0.0	5.4	36.6	42.0	0.290	0.290	0.290
9/2/2019	0.00	0.42	Yes	0.42	0.00	0.00	0.00	0.017	0.006	0.049	0.08671	**0.00**	0.0	2.5	33.7	36.2	0.290	0.290	0.290
9/3/2019	0.00	0.03	Yes	0.03	0.00	0.00	0.00	0.017	0.006	0.049	0.08671	**0.00**	0.0	1.7	45.8	47.5	0.290	0.290	0.290
9/4/2019	0.02	0.00	Yes	0.02	0.02	0.02	0.00	0.017	0.006	0.040	0.075121	**0.00**	0.0	1.3	51.3	52.6	0.290	0.290	0.233
9/5/2019	0.82	0.00	Yes	0.82	0.82	0.78	0.04	0.017	0.006	0.049	0.08671	**0.02**	0.8	1.1	39.2	40.3	0.290	0.290	0.290
9/6/2019	0.13	0.00	Yes	0.13	0.13	0.12	0.01	0.017	0.006	0.049	0.08671	**1.01**	0.1	1.1	32.3	33.4	0.290	0.290	0.290
9/7/2019	0.05	0.00	Yes	0.05	0.05	0.05	0.00	0.017	0.006	0.049	0.08671	**0.16**	0.1	1.1	29.4	30.5	0.290	0.290	0.290
9/8/2019	0.82	0.00	Yes	0.82	0.82	0.78	0.04	0.017	0.006	0.049	0.08671	**0.06**	0.8	1.1	28.0	29.1	0.290	0.290	0.290
9/9/2019	1.20	0.00	Yes	1.20	1.20	1.14	0.06	0.017	0.006	0.049	0.08671	**1.01**	1.2	1.0	28.1	29.1	0.290	0.290	0.290
9/10/2019	0.55	0.00	Yes	0.55	0.55	0.52	0.03	0.017	0.006	0.049	0.08671	**1.48**	0.6	0.8	26.5	27.3	0.290	0.290	0.290
9/11/2019	1.60	0.00	Yes	1.60	1.60	1.53	0.07	0.017	0.006	0.049	0.08671	**0.68**	1.6	0.9	25.2	26.1	0.290	0.290	0.290
9/12/2019	0.51	0.00	Yes	0.51	0.51	0.49	0.02	0.017	0.006	0.049	0.08671	**1.97**	0.5	1.2	25.1	26.3	0.290	0.290	0.290
9/13/2019	0.42	0.00	Yes	0.42	0.42	0.40	0.02	0.017	0.006	0.049	0.08671	**0.63**	0.4	1.2	24.2	25.4	0.290	0.290	0.290
9/14/2019	2.00	0.00	Yes	2.00	2.00	1.91	0.09	0.017	0.006	0.049	0.08671	**0.52**	2.0	1.2	23.4	24.6	0.290	0.290	0.290
9/15/2019	0.60	0.00	Yes	0.60	0.60	0.57	0.03	0.017	0.006	0.049	0.08671	**2.46**	0.6	1.1	25.4	26.5	0.290	0.290	0.290
9/16/2019	1.30	0.00	Yes	1.30	1.30	1.24	0.06	0.017	0.006	0.049	0.08671	**0.74**	1.3	0.8	39.2	40.0	0.290	0.290	0.290
9/17/2019	2.10	0.00	Yes	2.10	2.10	2.00	0.10	0.017	0.006	0.049	0.08671	**1.60**	2.1	0.9	39.7	40.6	0.290	0.290	0.290
9/18/2019	1.50	0.00	Yes	1.50	1.50	1.43	0.07	0.017	0.006	0.049	0.08671	**2.58**	1.5	1.0	25.9	26.9	0.290	0.290	0.290
9/19/2019	0.06	0.00	Yes	0.06	0.06	0.06	0.00	0.017	0.006	0.049	0.08671	**1.84**	0.1	1.1	23.4	24.5	0.290	0.290	0.290
9/20/2019	0.10	0.00	Yes	0.10	0.10	0.10	0.00	0.017	0.006	0.049	0.08671	**0.07**	0.1	0.9	24.3	25.2	0.290	0.290	0.290
9/21/2019	1.30	0.00	Yes	1.30	1.30	1.24	0.06	0.017	0.006	0.049	0.08671	**0.12**	1.3	1.1	23.7	24.8	0.290	0.290	0.290
9/22/2019	1.10	0.00	Yes	1.10	1.10	1.05	0.05	0.017	0.006	0.049	0.08671	**1.60**	1.1	1.2	23.7	24.9	0.290	0.290	0.290
9/23/2019	0.18	0.00	Yes	0.18	0.18	0.17	0.01	0.017	0.006	0.049	0.08671	**1.35**	0.2	1.3	21.9	23.2	0.290	0.290	0.290
9/24/2019	0.00	0.00	Yes	0.00	0.00	0.00	0.00	0.017	0.006	0.049	0.08671	**0.22**	0.0	1.3	21.1	22.4	0.290	0.290	0.290
9/25/2019	0.06	0.00	Yes	0.06	0.06	0.06	0.00	0.017	0.006	0.049	0.08671	**0.00**	0.1	1.2	21.5	22.7	0.290	0.290	0.290
9/26/2019	0.00	0.00	Yes	0.00	0.00	0.00	0.00	0.017	0.006	0.049	0.08671	**0.07**	0.0	1.1	40.0	41.1	0.290	0.290	0.290
9/27/2019	0.06	0.00	Yes	0.06	0.06	0.06	0.00	0.017	0.006	0.049	0.08671	**0.00**	0.1	1.0	45.3	46.3	0.290	0.290	0.290
9/28/2019	0.00	0.00	Yes	0.00	0.00	0.00	0.00	0.017	0.006	0.049	0.08671	**0.07**	0.0	1.1	33.4	34.5	0.290	0.290	0.290
9/29/2019	0.16	0.00	Yes	0.16	0.16	0.15	0.01	0.017	0.006	0.049	0.08671	**0.00**	0.2	0.6	27.9	28.5	0.290	0.290	0.290
9/30/2019	0.56	0.00	Yes	0.56	0.56	0.53	0.03	0.017	0.006	0.049	0.08671	**0.20**	0.6	0.5	24.8	25.3	0.290	0.290	0.290
10/1/2019	0.02	0.00										**0.69**		0.9	22.1				

Limit Check		Return Flows		
LAWMA's 02CW181 Portion	LAWMA's 10CW85 Portion	LAWMA's 02CW181 Portion	LAWMA's 10CW85 Portion	Total
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.02	0.00	0.01	0.00	0.01
0.78	0.04	0.25	0.01	0.26
0.12	0.01	0.04	0.00	0.04
0.05	0.00	0.02	0.00	0.02
0.78	0.04	0.25	0.01	0.26
1.14	0.06	0.37	0.02	0.39
0.52	0.03	0.17	0.01	0.18
1.53	0.07	0.49	0.02	0.51
0.49	0.02	0.16	0.01	0.16
0.40	0.02	0.13	0.01	0.13
1.91	0.09	0.61	0.03	0.64
0.57	0.03	0.18	0.01	0.19
1.24	0.06	0.40	0.02	0.42
2.00	0.10	0.64	0.03	0.67
1.43	0.07	0.46	0.02	0.48
0.06	0.00	0.02	0.00	0.02
0.10	0.00	0.03	0.00	0.03
1.24	0.06	0.40	0.02	0.42
1.05	0.05	0.34	0.02	0.35
0.17	0.01	0.06	0.00	0.06
0.00	0.00	0.00	0.00	0.00
0.06	0.00	0.02	0.00	0.02
0.00	0.00	0.00	0.00	0.00
0.06	0.00	0.02	0.00	0.02
0.00	0.00	0.00	0.00	0.00
0.06	0.00	0.02	0.00	0.02
0.15	0.01	0.05	0.00	0.05
0.53	0.03	0.17	0.01	0.18

Red numbers indicate estimated data due to missing or incomplete SatMon data

Blue numbers indicate revised data based upon hydro adjustments

02CW181 CU factor for Sept =	67.8%
10CW85 CU factor for Sept =	69.6%
02CW181 LAWMA SHARES =	3402
10CW85 LAWMA SHARES =	167
DIVERTED SHARES =	231
TOTAL SHARES =	3800

TOTAL AF	**33**	**2**	
MAX =	**1500**	**67**	<<Normally 1996 for 02CW181 and 98 for 10CW85
Exceeded?	No	No	
Cumulative Annual LAWMA=			**2438**
Annual Limit LAWMA=			12862
Cumulative Annual Leased=			**106**
Annual Limit Leased=			602

22.04845217	100%	22.05
1.111065889	100%	1.111

LAWMA Highland Accounting 2019

Daily Delivery of Highland Canal Direct Flow Consumptive Use Credits
September 2019

Date	In Stream in Priority (cfs)	LAWMA's Instream Portion (cfs)	Transit Loss to JMR (%)	Arrival Rate at JMR (cfs)	Arrival Quantity at JMR (ac-ft)	Computed CU Water at JMR (ac-ft)	C.U. Transit Loss Credit to LAWMA (ac-ft)	Delivery for In-State Replacement (Yes/No)	Delivery to Permanent Pool (Yes/No)	Bypassed for In-State Replacement (ac-ft)	Amount of CU Water to Permanent Pool (ac-ft)	Amount of CU Water to Offset Account (ac-ft)	Adjustment (ac-ft)	Flow Measurement @ Center Farm Aug Station (cfs)	Amount of CU Water @ CF Aug Station (ac-ft)
9/2/2019	0.00	0.00	0.08671	0.00	0.00	0.00	0.00	No	Yes	0.00	0.00	0.00	733.92	11.20	12.95
9/3/2019	0.00	0.00	0.08671	0.00	0.00	0.00	0.00	No	Yes	0.00	0.00	0.00	0.00	11.00	12.72
9/4/2019	0.02	0.00	0.08671	0.00	0.00	0.00	0.00	No	Yes	0.00	0.00	0.00	0.00	11.70	13.53
9/5/2019	0.82	0.02	0.07512	0.02	0.04	0.02	0.00	No	Yes	0.00	0.02	0.00	0.02	10.40	12.03
9/6/2019	0.13	0.82	0.08671	0.75	1.49	1.01	0.05	No	Yes	0.00	1.01	0.00	1.01	4.17	4.82
9/7/2019	0.02	0.13	0.08671	0.12	0.24	0.16	0.00	No	Yes	0.00	0.16	0.00	0.16	4.28	4.95
9/8/2019	0.82	0.05	0.08671	0.05	0.09	0.06	0.00	No	Yes	0.00	0.06	0.00	0.06	5.98	6.92
9/9/2019	1.20	0.82	0.08671	0.75	1.49	1.01	0.05	No	Yes	0.00	1.01	0.00	1.01	8.12	9.39
9/10/2019	0.55	1.20	0.08671	1.00	1.98	1.35	0.13	No	Yes	0.00	1.35	0.00	1.35	9.11	10.53
9/11/2019	1.60	0.55	0.08671	0.50	1.00	0.68	0.03	No	Yes	0.00	0.68	0.00	0.68	12.50	14.45
9/12/2019	0.51	1.60	0.08671	0.95	1.88	1.28	0.45	No	Yes	0.00	1.28	0.00	1.28	12.90	14.92
9/13/2019	0.42	0.51	0.08671	0.47	0.92	0.63	0.03	No	Yes	0.00	0.63	0.00	0.63	8.16	9.44
9/14/2019	2.00	0.42	0.08671	0.38	0.76	0.52	0.00	No	Yes	0.00	0.52	0.00	0.52	6.85	7.92
9/15/2019	0.60	2.00	0.08671	1.19	2.36	1.60	0.56	No	Yes	0.00	1.60	0.00	1.60	6.78	7.84
9/16/2019	1.30	0.60	0.08671	0.55	1.09	0.74	0.04	No	Yes	0.00	0.74	0.00	0.74	7.82	9.04
9/17/2019	2.10	1.30	0.08671	0.79	1.57	1.07	0.34	No	Yes	0.00	1.07	0.00	1.07	4.39	5.08
9/18/2019	1.50	2.10	0.08671	0.93	1.84	1.25	0.80	No	Yes	0.00	1.25	0.00	1.25	3.09	3.57
9/19/2019	0.06	1.50	0.08671	1.04	2.06	1.40	0.32	No	Yes	0.00	1.40	0.00	1.40	3.26	3.77
9/20/2019	0.10	0.06	0.08671	0.05	0.11	0.07	0.00	No	Yes	0.00	0.07	0.00	0.07	3.71	4.29
9/21/2019	1.30	0.10	0.08671	0.09	0.18	0.12	0.00	No	Yes	0.00	0.12	0.00	0.12	6.14	7.10
9/22/2019	1.10	1.30	0.08671	1.05	2.08	1.41	0.17	No	Yes	0.00	1.41	0.00	1.41	6.75	7.81
9/23/2019	0.18	1.10	0.08671	1.00	1.99	1.35	0.06	No	Yes	0.00	1.35	0.00	1.35	4.92	5.69
9/24/2019	0.00	0.18	0.08671	0.16	0.33	0.22	0.00	No	Yes	0.00	0.22	0.00	0.22	4.69	5.42
9/25/2019	0.06	0.00	0.08671	0.00	0.00	0.00	0.00	No	Yes	0.00	0.00	0.00	0.00	4.53	5.24
9/26/2019	0.00	0.06	0.08671	0.05	0.11	0.07	0.00	No	Yes	0.00	0.07	0.00	0.07	6.12	7.08
9/27/2019	0.06	0.00	0.08671	0.00	0.00	0.00	0.00	No	Yes	0.00	0.00	0.00	0.00	6.73	7.78
9/28/2019	0.00	0.06	0.08671	0.05	0.11	0.07	0.00	No	Yes	0.00	0.07	0.00	0.07	8.96	10.36
9/29/2019	0.16	0.00	0.08671	0.00	0.00	0.00	0.00	No	Yes	0.00	0.00	0.00	0.00	10.40	12.03
9/30/2019	0.56	0.16	0.08671	0.15	0.29	0.20	0.00	No	Yes	0.00	0.20	0.00	0.20	10.00	11.56
10/1/2019	0.02	0.56	0.08671	0.45	0.89	0.61	0.07	No	Yes	0.00	0.61	0.00	0.61	10.50	12.14
							3.10				16.90	0.00			
												0.00	750.82		

	Entire Month of September
Total In Stream Priority	**34.12**
LAWMA's Instream Portion	**34.12**
Arrival Amount at JMR	**24.90**
Return Flow Obligation	**2.08**
Transit Loss (LAWMA's Instream Portion - Arrival Amount at JMR)	**9.22**
CU Arrival at JMR	**16.90**
Total CU Bypassed for In-State Replacement	**0.00**
Total CU Water to Permanent Pool	**16.90**
Total CU Water to Offset Account	**0.00** Amount per Highland Agreement
Total CU Transit Loss to LAWMA (Prorated between 02CW181 & 10CW85)	**6.19** 0
Total CU Transit Loss to LAWMA (Bypass for In-State Replacement)	**0.00**
Total CU Transit Loss to LAWMA (Permanent Pool)	**3.10**
Total CU Transit Loss to LAWMA (Offset Account)	**3.10**

LAWMA Highland Accounting 2019

	1	2	3	4	5	6	6B	7	8	9	10	11	12	13	14	15	16	17	18
Date	Purgatoire @ Highland River Gage	Canal Flume	WD 67 River Call?	Available in Priority No 67 Call	In Stream in Priority	LAWMA's 02CW181 Portion	LAWMA's 10CW85 Portion	trloss#1	trloss#2	trloss#3	LAWMA tlossfctr	**crdtoffst**	Purg@hgh	Purg@LA	Ark@LA	Arkconfl	factor#1	factor#2	factor#3
10/1/2019	0.00	0.00	Yes	0.00	0.00	0.00	0.00	0.017	0.006	0.049	0.08671	**acre ft**	0.0	0.90	22.10	23.00	0.290	0.290	0.290
10/2/2019	0.03	0.00	Yes	0.03	0.03	0.03	0.00	0.017	0.006	0.049	0.08671	**0.00**	0.0	1.44	23.90	25.34	0.290	0.290	0.290
10/3/2019	0.00	0.00	Yes	0.00	0.00	0.00	0.00	0.017	0.006	0.049	0.08671	**0.02**	0.0	1.36	23.80	25.16	0.290	0.290	0.290
10/4/2019	0.00	0.00	Yes	0.00	0.00	0.00	0.00	0.017	0.006	0.049	0.08671	**0.00**	0.0	1.24	26.30	27.54	0.290	0.290	0.290
10/5/2019	0.03	0.00	Yes	0.03	0.03	0.03	0.00	0.017	0.006	0.049	0.08671	**0.00**	0.0	1.22	42.10	43.32	0.290	0.290	0.290
10/6/2019	0.06	0.00	Yes	0.06	0.06	0.06	0.00	0.017	0.006	0.049	0.08671	**0.02**	0.1	1.22	48.50	49.72	0.290	0.290	0.290
10/7/2019	0.50	0.00	Yes	0.50	0.50	0.47	0.02	0.017	0.006	0.049	0.08671	**0.04**	0.5	1.28	34.30	35.58	0.290	0.290	0.290
10/8/2019	0.38	0.00	Yes	0.38	0.38	0.36	0.02	0.017	0.006	0.049	0.08671	**0.32**	0.4	1.27	29.60	30.87	0.290	0.290	0.290
10/9/2019	0.38	0.00	Yes	0.38	0.38	0.36	0.02	0.017	0.006	0.049	0.08671	**0.25**	0.4	1.29	27.10	28.39	0.290	0.290	0.290
10/10/2019	0.14	0.00	Yes	0.14	0.14	0.13	0.01	0.017	0.006	0.049	0.08671	**0.25**	0.1	1.53	26.20	27.73	0.290	0.290	0.290
10/11/2019	0.01	0.00	Yes	0.01	0.01	0.01	0.00	0.017	0.006	0.049	0.08671	**0.09**	0.0	1.97	33.40	35.37	0.290	0.290	0.290
10/12/2019	0.01	0.00	Yes	0.01	0.01	0.01	0.00	0.017	0.006	0.049	0.08671	**0.01**	0.0	1.96	43.20	45.16	0.290	0.290	0.290
10/13/2019	0.02	0.00	Yes	0.02	0.02	0.01	0.00	0.017	0.006	0.049	0.08671	**0.01**	0.0	1.84	43.30	45.14	0.290	0.290	0.290
10/14/2019	0.00	0.00	Yes	0.00	0.00	0.00	0.00	0.017	0.006	0.049	0.08671	**0.01**	0.0	1.84	30.80	32.64	0.290	0.290	0.290
10/15/2019	0.02	0.00	Yes	0.02	0.02	0.02	0.00	0.017	0.006	0.049	0.08671	**0.00**	0.0	3.15	28.70	31.85	0.290	0.290	0.290
10/16/2019	0.01	0.00	Yes	0.01	0.01	0.01	0.00	0.017	0.006	0.049	0.08671	**0.01**	0.0	4.79	29.00	33.79	0.290	0.290	0.290
10/17/2019	0.01	0.00	Yes	0.01	0.01	0.01	0.00	0.017	0.006	0.049	0.08671	**0.00**	0.0	5.61	26.50	32.11	0.290	0.290	0.290
10/18/2019	0.03	0.00	Yes	0.03	0.03	0.03	0.00	0.017	0.006	0.049	0.08671	**0.01**	0.0	3.47	32.40	35.87	0.290	0.290	0.290
10/19/2019	0.00	0.00	Yes	0.00	0.00	0.00	0.00	0.017	0.006	0.040	0.07512	**0.02**	0.0	10.90	54.00	64.90	0.290	0.290	0.233
10/20/2019	0.01	0.00	Yes	0.01	0.01	0.01	0.00	0.017	0.006	0.049	0.08671	**0.00**	0.0	6.07	42.40	48.47	0.290	0.290	0.290
10/21/2019	0.00	0.00	Yes	0.00	0.00	0.00	0.00	0.017	0.006	0.049	0.08671	**0.00**	0.0	8.72	26.90	35.62	0.290	0.290	0.290
10/22/2019	0.01	0.00	Yes	0.01	0.01	0.01	0.00	0.017	0.006	0.049	0.08671	**0.00**	0.0	17.70	26.00	43.70	0.290	0.290	0.290
10/23/2019	0.00	0.00	Yes	0.00	0.00	0.00	0.00	0.017	0.006	0.049	0.08671	**0.01**	0.0	22.20	24.50	46.70	0.290	0.290	0.290
10/24/2019	0.02	0.00	Yes	0.02	0.02	0.01	0.00	0.017	0.006	0.049	0.08671	**0.00**	0.0	18.70	0.00	18.70	0.290	0.290	0.290
10/25/2019	0.00	0.00	Yes	0.00	0.00	0.00	0.00	0.017	0.006	0.049	0.08671	**0.01**	0.0	0.00	0.00	0.00	0.290	0.290	0.290
10/26/2019	0.00	0.00	Yes	0.00	0.00	0.00	0.00	0.017	0.006	0.049	0.08671	**0.00**	0.0	0.00	0.00	0.00	0.290	0.290	0.290
10/27/2019	0.00	0.00	Yes	0.00	0.00	0.00	0.00	0.017	0.006	0.049	0.08671	**0.00**	0.0	0.00	0.00	0.00	0.290	0.290	0.290
10/28/2019	0.00	0.00	Yes	0.00	0.00	0.00	0.00	0.017	0.006	0.049	0.08671	**0.00**	0.0	0.00	0.00	0.00	0.290	0.290	0.290
10/29/2019	0.00	0.00	Yes	0.00	0.00	0.00	0.00	0.017	0.006	0.049	0.08671	**0.00**	0.0	0.00	0.00	0.00	0.290	0.290	0.290
10/30/2019	0.00	0.00	Yes	0.00	0.00	0.00	0.00	0.017	0.006	0.049	0.08671	**0.00**	0.0	0.00	0.00	0.00	0.290	0.290	0.290
10/31/2019	0.00	0.00	Yes	0.00	0.00	0.00	0.00	0.017	0.006	0.049	0.08671	**0.00**	0.0	0.00	0.00	0.00	0.290	0.290	0.290
11/1/2019	0.00	0.00										**0.00**		0.00	0.00				

Limit Check		Return Flows		
LAWMA's 02CW181 Portion	LAWMA's 10CW85 Portion	LAWMA's 02CW181 Portion	LAWMA's 10CW85 Portion	Total
0.00	0.00	0.00	0.00	0.00
0.03	0.00	0.02	0.00	0.02
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.03	0.00	0.02	0.00	0.02
0.06	0.00	0.04	0.00	0.04
0.47	0.02	0.30	0.01	0.32
0.36	0.02	0.23	0.01	0.24
0.36	0.02	0.23	0.01	0.24
0.13	0.01	0.09	0.00	0.09
0.01	0.00	0.01	0.00	0.01
0.01	0.00	0.01	0.00	0.01
0.01	0.00	0.01	0.00	0.01
0.00	0.00	0.00	0.00	0.00
0.02	0.00	0.01	0.00	0.01
0.01	0.00	0.00	0.00	0.00
0.01	0.00	0.01	0.00	0.01
0.03	0.00	0.02	0.00	0.02
0.00	0.00	0.00	0.00	0.00
0.01	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.01	0.00	0.01	0.00	0.01
0.00	0.00	0.00	0.00	0.00
0.01	0.00	0.01	0.00	0.01
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00

Red numbers indicate estimated data due to missing or incomplete SatMon data

Blue numbers indicate revised data based upon hydro adjustments

TOTAL AF	**3**	**0**
MAX =	**1142**	**56** <<Normally 1142 for 02CW181 and 56 for 10CW85
Exceeded?	No	No

02CW181 CU factor for October =	35.6%
10CW85 CU factor for October =	38.7%
LAWMA SHARES =	3402
LAWMA LEASED SHARES =	167
DIVERTED SHARES =	231
TOTAL SHARES =	3800

Cumulative Annual LAWMA=	**2441**
Annual Limit LAWMA=	12862
Cumulative Annual Leased=	**106**
Annual Limit Leased=	602

1.118667404	100%	1.119
0	100%	0.06
1.17836325		

LAWMA Highland Accounting 2019

Daily Delivery of Highland Canal Direct Flow Consumptive Use Credits
October 2019

Date	In Stream in Priority (cfs)	LAWMA's Instream Portion (cfs)	Transit Loss to JMR (%)	Arrival Rate at JMR (cfs)	Arrival Quantity at JMR (ac-ft)	Computed CU Water at JMR (ac-ft)	C.U. Transit Loss Credit to LAWMA (ac-ft)	Delivery for In-State Replacement (Yes/No)	Delivery to Permanent Pool (Yes/No)	Bypassed for In-State Replacement (ac-ft)	Amount of CU Water to Permanent Pool (ac-ft)	Amount of CU Water to Offset Account (ac-ft)	Adjustment (ac-ft)	Flow Measurement @ Center Farm Aug Station (cfs)	Amount of CU Water @ CF Aug Station (ac-ft)
10/2/2019	0.00	0.00	0.08671	0.00	0.00	0.00	0.00	No	Yes	0.00	0.00	0.00	750.82	11.00	12.72
10/3/2019	0.03	0.03	0.08671	0.03	0.05	0.02	0.00	No	Yes	0.00	0.02	0.00	0.02	12.00	13.88
10/4/2019	0.00	0.00	0.08671	0.00	0.00	0.00	0.00	No	Yes	0.00	0.00	0.00	0.00	11.20	12.95
10/5/2019	0.00	0.00	0.08671	0.00	0.00	0.00	0.00	No	Yes	0.00	0.00	0.00	0.00	8.53	9.86
10/6/2019	0.03	0.03	0.08671	0.03	0.05	0.02	0.00	No	Yes	0.00	0.02	0.00	0.02	6.38	7.38
10/7/2019	0.06	0.06	0.08671	0.05	0.11	0.04	0.00	No	Yes	0.00	0.04	0.00	0.04	2.71	3.13
10/8/2019	0.50	0.50	0.08671	0.45	0.90	0.32	0.02	No	Yes	0.00	0.32	0.00	0.32	0.54	0.63
10/9/2019	0.38	0.38	0.08671	0.35	0.69	0.25	0.02	No	Yes	0.00	0.25	0.00	0.25	0.54	0.63
10/10/2019	0.38	0.38	0.08671	0.35	0.69	0.25	0.02	No	Yes	0.00	0.25	0.00	0.25	0.54	0.63
10/11/2019	0.14	0.14	0.08671	0.13	0.25	0.09	0.01	No	Yes	0.00	0.09	0.00	0.09	0.39	0.45
10/12/2019	0.01	0.01	0.08671	0.01	0.02	0.01	0.00	No	Yes	0.00	0.01	0.00	0.01	0.36	0.42
10/13/2019	0.01	0.01	0.08671	0.01	0.02	0.01	0.00	No	Yes	0.00	0.01	0.00	0.01	0.35	0.40
10/14/2019	0.02	0.02	0.08671	0.01	0.03	0.01	0.00	No	Yes	0.00	0.01	0.00	0.01	0.33	0.39
10/15/2019	0.00	0.00	0.08671	0.00	0.00	0.00	0.00	No	Yes	0.00	0.00	0.00	0.00	0.31	0.36
10/16/2019	0.02	0.02	0.08671	0.02	0.04	0.01	0.00	No	Yes	0.00	0.01	0.00	0.01	0.41	0.48
10/17/2019	0.01	0.01	0.08671	0.01	0.01	0.00	0.00	No	Yes	0.00	0.00	0.00	0.00	1.75	2.02
10/18/2019	0.01	0.01	0.08671	0.01	0.02	0.01	0.00	No	Yes	0.00	0.01	0.00	0.01	2.54	2.94
10/19/2019	0.03	0.03	0.08671	0.03	0.06	0.02	0.00	No	Yes	0.00	0.02	0.00	0.02	5.04	5.83
10/20/2019	0.00	0.00	0.07512	0.00	0.00	0.00	0.00	No	Yes	0.00	0.00	0.00	0.00	7.12	8.23
10/21/2019	0.01	0.01	0.08671	0.01	0.01	0.00	0.00	No	Yes	0.00	0.00	0.00	0.00	10.60	12.26
10/22/2019	0.00	0.00	0.08671	0.00	0.00	0.00	0.00	No	Yes	0.00	0.00	0.00	0.00	10.10	11.68
10/23/2019	0.01	0.01	0.08671	0.01	0.02	0.01	0.00	No	Yes	0.00	0.01	0.00	0.01	8.78	10.15
10/24/2019	0.00	0.00	0.08671	0.00	0.00	0.00	0.00	No	Yes	0.00	0.00	0.00	0.00	7.07	8.18
10/25/2019	0.02	0.02	0.08671	0.01	0.03	0.01	0.00	No	Yes	0.00	0.01	0.00	0.01	6.16	7.12
10/26/2019	0.00	0.00	0.08671	0.00	0.00	0.00	0.00	No	Yes	0.00	0.00	0.00	0.00	4.48	5.18
10/27/2019	0.00	0.00	0.08671	0.00	0.00	0.00	0.00	No	Yes	0.00	0.00	0.00	0.00	0.00	0.00
10/28/2019	0.00	0.00	0.08671	0.00	0.00	0.00	0.00	No	Yes	0.00	0.00	0.00	0.00	0.00	0.00
10/29/2019	0.00	0.00	0.08671	0.00	0.00	0.00	0.00	No	Yes	0.00	0.00	0.00	0.00	0.00	0.00
10/30/2019	0.00	0.00	0.08671	0.00	0.00	0.00	0.00	No	Yes	0.00	0.00	0.00	0.00	0.00	0.00
10/31/2019	0.00	0.00	0.08671	0.00	0.00	0.00	0.00	No	Yes	0.00	0.00	0.00	0.00	0.00	0.00
11/1/2019	0.00	0.00	0.08671	0.00	0.00	0.00	0.00	No	Yes	0.00	0.00	0.00	0.00	0.00	0.00
							1.03				9.89	18.18	751.89		

	Entire Month of October	
Total In Stream Priority	**3.30**	
LAWMA's Instream Portion	**3.30**	
Arrival Amount at JMR	**3.01**	
Return Flow Obligation	**0.25**	
Transit Loss (LAWMA's Instream Portion - Arrival Amount at JMR)	**0.29**	
CU Arrival at JMR	**1.08**	
Total CU Bypassed for In-State Replacement	**0.00**	
Total CU Water to Permanent Pool	**1.08**	
Total CU Water to Offset Account	**0.00**	Amount per Highland Agreement
Total CU Transit Loss to LAWMA (Prorated between 02CW181 & 10CW85)	**0.08**	0.05
Total CU Transit Loss to LAWMA (Bypass for In-State Replacement)	**0.00**	
Total CU Transit Loss to LAWMA (Permanent Pool)	**0.03**	
Total CU Transit Loss to LAWMA (Offset Account)	**0.05**	

LAWMA Highland Accounting 2019

Highland Accounting Summary

(values in ac-ft)

	Direct Flow Consumptive Use Credits			Delivery To		
	02CW181	10CW85	Total	Bypassed for In-State Replacement	Delivered to the Permanent Pool	Delivered to the Offset Account
April	480.06	23.57	503.63	0.00	0.00	503.63
May	905.93	44.47	950.40	0.00	202.43	747.97
June	945.69	46.42	992.11	0.00	380.85	611.26
July	882.17	43.30	925.48	0.00	450.16	475.32
August	427.46	20.98	448.44	0.00	283.76	164.69
September	16.11	0.79	16.90	0.00	16.90	0.00
October	1.03	0.05	1.08	0.00	1.08	0.00
	3,658.45	179.59	3,838.04	0.00	1,335.18	2,502.86

Enclosure 2
Permanent Pool Approval and Resolution

Arkansas River Compact Administration
Resolution No. 2019-01

Regarding John Martin Reservoir Permanent Pool

WHEREAS, Section 204 of the Flood Control Act of 1965 authorized a "permanent pool for fish and wildlife and recreational purposes" at John Martin Reservoir ("JMR"); and

WHEREAS, Section 204 of the Flood Control Act of 1965 required that the State of Colorado "purchase and make available any water rights necessary under State law to establish and thereafter maintain the permanent pool"; and

WHEREAS, Section 204 of the Flood Control Act of 1965 required that the Arkansas River Compact Administration ("ARCA") approve "written terms and conditions . . . [for] establishing, maintaining, and operating the permanent pool"; and

WHEREAS, by the Resolution Concerning John Martin Reservoir Permanent Pool ("1976 Resolution") adopted on August 14, 1976, ARCA "approve[d] the creation in [JMR] of a permanent pool . . . and adopt[ed] the criteria . . . as procedures for the operation of [JMR]"; and

WHEREAS, the 1976 Resolution further provided that "water deliveries from other valid water rights owned or controlled by the State of Colorado may be added to the permanent pool water supply subject to the approval of [ARCA]"; and

WHEREAS, The Resolution Concerning an Operating Plan for John Martin Reservoir (Apr. 24, 1980, as amended) ("1980 Operating Plan") recognizes the permanent pool authorized by the 1976 Resolution and makes the operation of the permanent pool subject to the terms of the 1980 Operating Plan; and

WHEREAS, pursuant to a Water Management Agreement between the Colorado Division of Parks and Wildlife and the Lower Arkansas Water Management Association ("LAWMA"), LAWMA will allow use of its Highland Canal water rights located in District 17 upstream of JMR and diverting from the Purgatoire River as a source of water supply for the permanent pool; and

WHEREAS, the States of Colorado and Kansas have agreed to the delivery of fully consumable water from LAWMA's Highland Canal water rights under certain conditions ;

NOW THEREFORE, BE IT RESOLVED that pursuant to the terms of its 1976 Resolution the Arkansas River Compact Administration hereby approves the use of the Highland Canal water rights, formerly diverted from the Purgatoire River in District 17, as an additional source of water supply for the permanent pool at JMR so long as the States of Colorado and Kansas maintain a written agreement between them which allows such use and sets forth any applicable terms and conditions of that use.

ADOPTED by the Arkansas River Compact Administration at the Special Meeting held telephonically on February 14, 2019.

The effective date of this Resolution shall be the date on which the Chief of Engineers of the Corps of Engineers, or his duly authorized representative, concurs with this Resolution by signing and dating below in the space provided.

Jim Rizzuto, Chairman
Arkansas River Compact Administration

2/15/2019
Date

Stephanie Gonzales, Recording Secretary,
Arkansas River Compact Administration

2/21/2019
Date

Concurrence

Lt. Col Dale Caswell, Jr
Commander and District Engineer,
Albuquerque District, U.S. Army Corps of Engineers
Duly Authorized Representative of the Chief of Engineers,
U.S. Army Corps of Engineers

8 MAR 19
Date

Copy 1 of 4

MEMORANDUM OF AGREEMENT RELATED TO THE HIGHLAND CANAL WATER RIGHT AND RESOLUTION OF LOWER ARKANSAS WATER MANAGEMENT ASSOCIATION MATRIX ISSUES NOS. 9 AND 12

This MEMORANDUM OF AGREEMENT RELATED TO THE HIGHLAND CANAL WATER RIGHT AND RESOLUTION OF LOWER ARKANSAS WATER MANAGEMENT ASSOCIATION MATRIX ISSUES NOS. 9 AND 12 ("Agreement") is entered into this 21st day of February, 2019, by and between the State of Colorado and the State of Kansas (collectively the "States").

WHEREAS, the States have reached agreement on the use of the Lower Arkansas Water Management Association's ("LAWMA") Highland Canal water rights ("Highland Canal Water") for the Permanent Pool pursuant to the MEMORANDUM OF AGREEMENT RELATED TO THE DELIVERY OF HIGHLAND CANAL WATER INTO THE PERMANENT POOL AT JOHN MARTIN RESERVOIR ("Permanent Pool Agreement");

WHEREAS, Highland Canal Water is an important source of water for the Offset Account and Permanent Pool at John Martin Reservoir;

WHEREAS, the State of Kansas has raised outstanding issues regarding Highland Canal Water, based on LAWMA's change of water right decrees pursuant to Colorado Water Court, Case Nos. 2002CW181 and 2010CW85.

WHEREAS, the States have jointly developed a LAWMA Issues Matrix to identify the various issues that remain unresolved;

WHEREAS, the issues addressed by this Agreement are commonly known to the States in the LAWMA Issues Matrix as Issue Nos. 9 and 12;

WHEREAS, the State of Kansas has stated Issue No. 9 as "*LAWMA Decree should provide standards for determining the unconsumed portion of transit loss on deliveries of Highland Canal water to the Offset Account in John Martin Reservoir.*";

WHEREAS, the State of Kansas has stated Issue No. 12 as "*The LAWMA Decree should provide sufficient limits on the Highland Ditch credits, including proper volumetric limits, to prevent injury to Kansas.*"; and

WHEREAS, as a result of work on the Permanent Pool Agreement, the States have reached agreement on LAWMA Matrix Issues Nos. 9 and 12 raised by the State of Kansas regarding LAWMA's change of water right decrees.

NOW THEREFORE, BE IT AGREED,

1. Issue No. 9 is resolved by the Colorado State Engineer's agreement to implement and enforce terms and conditions consistent with **Attachment A** in all future LAWMA Plan Approvals.

2. Issue No. 12 is resolved by the Colorado State Engineer's agreement to implement and enforce terms and conditions consistent with **Attachment B** in all future LAWMA Plan Approvals.

3. By March 1st of each year, LAWMA shall provide to the Colorado Division of Water Resources, along with their Rule 14 Replacement Plan Application and their Annual Augmentation Plan Projection, the Annual Source Analysis pursuant to the Permanent Pool Agreement. The Annual Source Analysis, LAWMA's Rule 14 Replacement Application, and LAWMA's Annual Augmentation Plan Projection shall be provided by the State of Colorado to the State of Kansas no later than March 5th of each year. This shall be a continuing obligation independent of the status of the Permanent Pool Agreement.

4. LAWMA agrees to provide a clear and concise report to the State of Colorado on LAWMA's Stateline depletions that exceed LAWMA's replacement water deliveries made directly to the Stateline without use of the Offset Account, separated by pre-1986 and post-1985 depletions. Such report shall be delivered to the State of Colorado and forwarded to the State of Kansas by Colorado by the 15th of each month from April through October, recognizing that the data available to LAWMA's engineer will be estimated for some replacement sources and may be updated in subsequent reports. These reports shall be formatted to include, at a minimum, the following information:

   > For _(month/year)_ there are _____ acre-feet of pre-1986 Stateline depletions and _____ acre-feet of post-1985 Stateline depletions that exceed LAWMA's replacement water deliveries made directly to the Stateline without use of the Offset Account. For the calendar year, there are a total of _____acre-feet of pre-1986 Stateline depletions and _____ acre-feet of post-1985 Stateline depletions that exceed LAWMA's replacement water deliveries made directly to the Stateline without use of the Offset Account.

   This shall be a continuing obligation independent of the status of the Permanent Pool Agreement.

5. All terms contained in this Agreement shall remain in full force and effect regardless of the status of the Permanent Pool Agreement.

6. Nothing in this Agreement shall be construed to alter in any way the State of Colorado's obligation to maintain compliance with the Arkansas River Compact.

7. Approval of this Agreement does not waive either State's position on allowable uses of Highland Canal Water.

8. Approval of this Agreement does not waive either State's position concerning the interpretation of Appendix A.4 of the decree entered in *Kansas v. Colorado*, No. 105, Orig.

Kevin G. Rein, P.E.
Colorado State Engineer

David W. Barfield, P.E.
Kansas Chief Engineer

1 of 2 originals

Attachment A

In determining the unconsumed transit loss credits claimed by LAWMA under the decrees in Case Nos. 02CW181 and 10CW085 or any approved Substitute Water Supply Plan for in-state replacement credit in the monthly accounting maintained by the State of Colorado, the following procedure shall be applied: For Purgatoire River flows in the range of 1 cfs to 12 cfs, a factor ranging from 55% to 60% shall be applied pro-rata by flow; for flows between 12 cfs and 25 cfs a factor ranging from 60% to 75% shall be applied pro-rata by flow; for flows between 25 cfs and 40 cfs a factor ranging from 75% to 80% shall be applied pro-rata by flow; for flows above 40 cfs a factor of 80% shall be applied. The unconsumed transit loss credit shall be limited to that amount delivered to the Arkansas River after deducting the historical return flow obligation and the consumable credit to be delivered to the Offset Account or Permanent Pool.

Attachment B

Volumetric Limits for the Highland Canal shares changed in Case No. 02CW181 Paragraph 28.G:

The volumetric limits for the Highland Canal water rights are based upon river headgate diversions and diversions shall be calculated and measured as set forth in Sections 28.A. and B. of this Decree to apply the volumetric limits. LAWMA will limit the river headgate diversions for the Highland Canal water rights during April 2 through October 31 to a cumulative amount of 136,120 acre-feet in any twenty-year period, provided however that no more than one-half of this amount will be diverted in the first ten years after entry of this Decree, to a maximum of 12,257 acre-feet during April 2 through October 31 of any year and to the following maximum and cumulative monthly amounts:

MONTH	April	May	June	July	August	September	October
MAXIMUM AMOUNT (acre-feet)	1,445	1,854	2,172	2,369	2,570	1,996	1,142
CUMULATIVE AMOUNT IN ANY TWENTY YEAR PERIOD (acre-feet)	14,802	18,769	24,096	25,356	32,316	19,680	11,196

Volumetric Limits for the Highland Canal shares changed in Case No. 10CW085 Paragraph 28.G:

The volumetric limits for the Highland Canal water rights are based upon bypassed river headgate diversions attributable to LAWMA's interest in the Highland Canal water rights described in paragraph 8.C.vii above and shall be calculated and measured as set forth in paragraphs 17.A. and B. of this Decree to apply the volumetric limits. LAWMA shall limit the bypassed river headgate diversions for the Highland Canal water rights during April 1 through October 31 to a cumulative amount of 6,682 acre-feet in any twenty-year period, provided however that no more than one-half of this amount will be diverted in the first ten years after entry of this Decree. LAWMA shall also limit bypassed river headgate diversions for the Highland Canal water rights to a maximum of 602 acre-feet during April 1 through October 31 of any year and to the following maximum and cumulative monthly amounts:

MONTH	April	May	June	July	August	September	October
MAXIMUM AMOUNT (acre-feet)	71	91	107	116	126	98	56
CUMULATIVE AMOUNT IN ANY TWENTY YEAR PERIOD (acre-feet)	727	921	1,183	1,245	1,586	966	550

No more than one-half of each monthly cumulative twenty-year limit set forth in the above-table will be diverted in the first ten years after entry of this Decree. Additionally, LAWMA shall limit the bypassed river headgate diversions for the Highland Canal water rights Priority Nos. 27 and 97 during April 1 through October 31 to a cumulative amount of 6,243 acre-feet in any twenty-year period, provided however that no more than one-half of this amount will be claimed as a bypassed diversion in the first ten years after entry of this Decree.

MEMORANDUM OF AGREEMENT RELATED TO THE DELIVERY OF HIGHLAND CANAL WATER INTO THE PERMANENT POOL AT JOHN MARTIN RESERVOIR

This MEMORANDUM OF AGREEMENT RELATED TO THE DELIVERY OF HIGHLAND CANAL WATER INTO THE PERMANENT POOL AT JOHN MARTIN RESERVOIR ("Agreement") is entered into this 21st day of February, 2019, by and between the State of Colorado and the State of Kansas (collectively the "States").

WHEREAS, the Arkansas River Compact was entered into between the States and consented to by the United States in 1948 to equitably divide and apportion the waters of the Arkansas River and their utilization, among other purposes, between the States;

WHEREAS, the Flood Control Act of 1965 authorized a permanent pool for wildlife and recreation purposes at John Martin Reservoir ("Permanent Pool");

WHEREAS, various other acts by the States and by the Arkansas River Compact Administration ("ARCA") have recognized the authority for creating and operating the Permanent Pool;

WHEREAS, a ready source of water supply has not always been available to the State of Colorado for the Permanent Pool;

WHEREAS, the Highland Canal water rights ("Highland Canal Water") are an important source of water for the Offset Account at John Martin Reservoir;

WHEREAS, pursuant to a water management agreement between the Colorado Division of Parks and Wildlife and the Lower Arkansas Water Management Association ("LAWMA"), LAWMA will allow use of its Highland Canal Water, located in District 17 upstream of John Martin Reservoir and diverting from the Purgatoire River, as a source of water supply for the Permanent Pool; and

WHEREAS, for the mutual benefit of the States, the State of Colorado and the State of Kansas wish to authorize the delivery of Highland Canal Water into the Permanent Pool under the conditions contained in this Agreement.

NOW THEREFORE, BE IT AGREED,

1. Highland Canal Water may not be delivered to the Permanent Pool pursuant to this Agreement until ARCA approves the use of Highland Canal Water as a source of water for the Permanent Pool.
2. Each year that this Agreement is in effect, the State of Colorado and LAWMA agree to deliver an amount of fully consumable water ("Delivery Requirement") to the Offset Account in John Martin Reservoir between March 1st and November 15th, as determined each year pursuant to this Agreement.

3. This Agreement will be in effect during each calendar year that LAWMA delivers Highland Canal Water to the Permanent Pool and the terms and conditions of this Agreement will only apply at times when the Agreement is in effect.

4. By March 1st of each year, LAWMA shall provide to the Colorado Division of Water Resources, along with their Rule 14 Replacement Plan Application and their Annual Augmentation Plan Projection, an annual source analysis in the format shown in the file "LAWMA_SourceAnalysisForHighlandPermanentPool_EstimateV1.0" ("Annual Source Analysis") or a subsequent version as agreed to by the States pursuant to this Agreement. The Annual Source Analysis is hereby incorporated by reference. The Annual Source Analysis, LAWMA's Rule 14 Replacement Application, and LAWMA's Annual Augmentation Plan Projection shall be provided by the State of Colorado to the State of Kansas no later than March 5th of each year. This Annual Source Analysis will propose an Annual Target Amount and a Minimum Delivery Amount.

5. Water in the Kansas Charge subaccount and any non-consumable storage subaccounts in the Offset Account shall not be considered a part of the Annual Target Amount or Minimum Delivery Amount deliveries under this Agreement.

6. The March 1 Offset Account storage balance for the consumable subaccounts, with the exception of the Kansas Charge subaccount, will be used to determine a Minimum Delivery Amount as part of the Annual Source Analysis. If on March 1, the Offset Account storage balance is 4,000 acre-feet or less, the Minimum Delivery Amount will be 6,000 acre-feet. If on March 1, the Offset Account storage balance is between 4,001 acre-feet and 10,000 acre-feet, the Minimum Delivery Amount will be the difference between 10,000 acre-feet and Offset Account storage balance on March 1. If on March 1, the Offset Account storage balance is more than 10,000 acre-feet, the Minimum Delivery Amount will be zero. However, if the amount released by Kansas from the Offset Account during the prior calendar year for Stateline delivery was 2,000 acre-feet or less, the Minimum Delivery Amount as calculated above will be further reduced by 2,000 acre-feet or shall be zero, whichever is greater.

7. During the month of March each year the States shall confer with one another and LAWMA, and either accept or recommend modification of the values used in the Annual Source Analysis and determine the final values for the Annual Target Amount and the Minimum Delivery Amount. The Delivery Requirement will be the greater of Annual Target Amount or Minimum Delivery Amount and shall be set by agreement between the Assistant Operations Secretary and Operations Secretary acting on behalf of each State by March 31st of each year. If the States and LAWMA cannot reach agreement prior to March 31st in any year, Highland Canal Water will not be delivered to the Permanent Pool during that calendar year and none of the other requirements of this Agreement shall be in effect for that calendar year, unless otherwise agreed to in writing by the States and LAWMA.

8. Any agreement related to the values coming out of the Annual Source Analysis does not constitute agreement with LAWMA's underlying accounting.

9. This Agreement shall not prohibit deliveries to the Offset Account in excess of the Delivery Requirement, nor shall this Agreement limit the ability to deliver Highland Canal Water to the Offset Account.

10. At least two thirds of the Delivery Requirement shall be delivered to the Offset Account by July 1st.

11. LAWMA agrees to provide a clear and concise report to the State of Colorado on LAWMA's Stateline depletions that exceed LAWMA's replacement water deliveries made directly to the Stateline without use of the Offset Account, separated by pre-1986 and post-1985 depletions. Such report shall be delivered to the State of Colorado and forwarded to the State of Kansas by Colorado by the 15th of each month from April through October, recognizing that the data available to LAWMA's engineer will be estimated for some replacement sources and may be updated in subsequent reports. These reports shall be formatted to include, at a minimum, the following information:

> For _(month/year)_ there are _____ acre-feet of pre-1986 Stateline depletions and _____ acre-feet of post-1985 Stateline depletions that exceed LAWMA's replacement water deliveries made directly to the Stateline without use of the Offset Account. For the calendar year, there are a total of _____acre-feet of pre-1986 Stateline depletions and _____ acre-feet of post-1985 Stateline depletions that exceed LAWMA's replacement water deliveries made directly to the Stateline without use of the Offset Account.

12. In the case of a spill of the Offset Account, or if a spill of the Offset Account appears likely, any quantity of water required by this Agreement to be delivered to the Offset Account may be delayed for the purpose of avoiding a spill of such deliveries. The terms and conditions of any such delay shall be first proposed in writing by LAWMA. There shall be no allowable delay in delivery until such terms and conditions are approved in writing by the Chief Engineer of the State of Kansas.

13. LAWMA and the Colorado Division of Parks and Wildlife must obtain approval for a Substitute Water Supply Plan ("SWSP") pursuant to §37-92-308(4) or §37-92-308(5) of the Colorado Revised Statutes or obtain an applicable change of use decree from Colorado Water Court prior to delivery of Highland Canal Water to the Permanent Pool.

14. After ARCA has approved the use Highland Canal Water as a source of water for the Permanent Pool and upon receipt of an approved SWSP or Colorado Water Court approval, Highland Canal Water may be delivered to the Permanent Pool on a daily basis to the extent it is not needed to fulfill the commitment to the Offset Account pursuant to the terms of this Agreement.

15. Highland Canal Water shall not be delivered to the Permanent Pool in months when any portion of Highland Canal Water is used for in-state replacement.

16. Replacement credit will not be claimed as special water input to the H-I Model for the unconsumed transit losses incurred when Highland Canal Water is being delivered to the Permanent Pool. LAWMA may claim in-state replacement credit in the monthly accounting maintained by the State of Colorado for unconsumed transit losses allowed by either of the LAWMA decrees entered in Case Nos. 02CW181 and 10CW085, District Court, Water Division No. 2, State of Colorado, or an approved SWSP, provided that such claims do not exceed the allowable amounts contained in **Attachment A** (MEMORANDUM OF AGREEMENT RELATED TO THE HIGHLAND CANAL WATER RIGHT AND RESOLUTION OF LOWER ARKANSAS WATER MANAGEMENT ASSOCIATION MATRIX ISSUES NOS. 9 AND 12).

17. LAWMA or the Colorado Division of Parks and Wildlife, through Colorado Division of Water Resources staff, shall notify the State of Kansas and the ARCA Operations Secretary prior to beginning delivery of Highland Canal Water to the Permanent Pool.

18. The ARCA Operations Secretary shall keep accurate records of all deliveries into the Permanent Pool, provide such information to the State of Kansas upon request, and include an annual summary of all Permanent Pool operations in the Operation Secretary's annual report to ARCA.

19. Nothing in this Agreement shall be construed to alter in any way the State of Colorado's obligation to maintain compliance with the Arkansas River Compact.

20. Approval of this Agreement does not waive either State's position on allowable uses of Highland Canal Water.

21. Approval of this Agreement does not waive either State's position concerning the interpretation of Appendix A.4 of the decree entered in *Kansas v. Colorado*, No. 105, Orig.

22. The States agree to review at each ARCA Annual Meeting the terms of this Agreement and ensure they are being implemented as intended and with the desired effect, including whether any modification of the Agreement is necessary. The review shall be conducted by the Engineering Committee, unless otherwise assigned by ARCA, and the results shall be reported by the committee during its annual meeting report. The annual review may be waived if agreed to by both States.

23. Any proposed changes to the Annual Source Analysis, including any changes to the spreadsheet upon which the Annual Source Analysis is based, shall be considered during the ARCA Annual Meeting review of this Agreement. The States shall agree to any proposed changes by memorializing them in writing in a formal addendum that shall be attached to this Agreement. All approved changes shall take effect for the next Annual Source Analysis after approval by the States. Changes to the Annual Source Analysis shall not require approval by ARCA.

24. Following the annual review and ARCA Annual Meeting, this Agreement may be suspended by either State if notice is provided to ARCA and the other State by

January 15th of the calendar year in which the Agreement shall be suspended. Such notice shall be in writing and contain both a preliminary statement about why the Agreement has been suspended and any specific issues for discussion between the States. If the Agreement remains suspended for three consecutive years, then the Agreement shall terminate unless otherwise agreed upon in writing by the States.

25. All notices, reports, and other documents required by this Agreement may be delivered by email or any other electronic means acceptable to the States.

Kevin G. Rein, P.E.
Colorado State Engineer

David W. Barfield, P.E.
Kansas Chief Engineer

2 of 2 originals

Enclosure 3
Substitute Water Supply Plan Approval for Highland Canal Use in the Permanent Pool

COLORADO
Division of Water Resources
Department of Natural Resources

April 30, 2019

Randy Hendrix
Hendrix Wai Engineering, Inc.
PO Box 4487
Parker, CO 80134

RE: JMR Permanent Pool Substitute Water Supply Plan
John Martin Reservoir, Bent County, 6th PM
Division 2, Water District 67
SWSP ID 5919, WDID 6707869

Approval period: April 1, 2019 through March 31, 2020
Contact Phone Number for Mr. Hendrix: 720-934-4360; randy@hendrix-wai.com

Dear Mr. Hendrix:

We have reviewed your March 25, 2019 letter requesting a substitute water supply plan ("SWSP") pursuant to § 37-92-308(5), C.R.S., for a temporary change of water right for the use of the Highland Canal water rights owned by the Lower Arkansas Water Management Association ("LAWMA"). Notice was served to all subscribers to the Division 2 SWSP notification list on March 25, 2019, and no comments were received during the 35-day comment period. The $300 filing fee has been received and given receipt no. 3691117.

An application for approval of a change of water right or plan for augmentation has not been filed with the water court and the depletions associated with the proposed water uses will not exceed five years, therefore this request has been submitted pursuant to § 37-92-308(5), C.R.S. In accordance with § 37-92-308(5), C.R.S., SWSPs may be approved for new water use plans involving out-of-priority diversions or a change of water right, if no application for approval of a plan for augmentation or a change of water right has been filed with the water court and the depletions associated with such water use plan or change will be for a limited duration not to exceed five years. **This plan is the third year of operation for this SWSP.**

SWSP OPERATION

The purpose of this SWSP is to approve a temporary change in the use of Highland Canal water rights owned by LAWMA, that were previously changed and quantified by LAWMA in Case Nos. 02CW181 and 10CW85, in order to fill the Permanent Pool in John Martin Reservoir ("JMR") and thereafter replace evaporation from the Permanent Pool. Pursuant to the decrees entered in Case Nos. 02CW181 and 10CW85, the Highland Canal water rights may be used for augmentation or replacement of depletions in the Arkansas River or its tributaries by LAWMA. The Highland Canal water rights changed in Case Nos. 02CW181

and 10CW85 are currently decreed to be diverted and stored only in the JMR Offset Account. Subject to the terms and conditions included in the agreement entered into between the states of Colorado and Kansas ("Permanent Pool Agreement") dated February 21, 2019, LAWMA has agreed to provide fully-consumable water from its Highland Canal water rights for use by the Colorado Division of Parks and Wildlife ("CPW") in the Permanent Pool. Both the Permanent Pool and the Offset Account are storage accounts located within JMR. Therefore, there is no physical change in the place of storage of the Highland Canal water rights when the water rights are stored in JMR's Permanent Pool account or the Offset Account. However, because all or a portion of the Highland Canal water rights changed in Case Nos. 02CW181 and 10CW85 will no longer be delivered to the Offset Account, the use of the Highland Canal water rights changed in Case Nos. 02CW181 and 10CW85 need to be temporarily changed to allow storage in the Permanent Pool in JMR. For the Highland Canal water rights changed in Case Nos. 02CW181 and 10CW85, the allowable uses will also be temporarily changed by this SWSP to include, in addition to the currently decreed augmentation and replacement uses, fish, wildlife, and recreational purposes in JMR and replacement of evaporation from the Permanent Pool in JMR.

Arkansas River Compact Administration ("ARCA") established a Permanent Pool in JMR for fish, wildlife and recreational purposes not to exceed 15,000 acre-feet. This Pool is protected from spill when its volume is 10,000 acre-feet or less. The Pool is normally filled and maintained by CPW using either water from Muddy Creek (decreed in CA-1434) or purchased transmountain water. Muddy Creek does not produce sufficient flow to fill the Pool, or to cover evaporation losses (JMR apportions evaporative losses through the accounts in the reservoir). Transmountain water supplies are prohibitively expensive for CPW. Therefore, the agency is seeking a more permanent and reliable source to cover evaporative losses and fill the Permanent Pool.

A special ARCA meeting was held by telephone on February 14, 2019, during which Resolution No. 2019-01 was approved to authorize the use of the Highland Canal for delivery to the JMR pool.

DEPLETIONS

Depletions to the Permanent Pool consist primarily of evaporative losses. The evaporative losses from the Permanent Pool depend on the volumes of water in storage in the Permanent Pool. Based on the water surface, the average evaporative losses are 26,478 acre feet over all the storage accounts. Evaporative losses on the water stored in the Permanent Pool have averaged 1,960 acre-feet annually (see Table 1). The consumptive use credits available to LAWMA's Highland Canal water rights average 3,811 acre-feet per year, which would be sufficient to cover the losses sustained by CPW's Permanent Pool apportionment. These are given in the attached Table 2 for the Operational Scenario presented in this SWSP request.

CONDITIONS OF APPROVAL

This SWSP is hereby approved pursuant to § 37-92-308(5), C.R.S., subject to the following conditions:

1. This SWSP shall be valid for the period of **April 1, 2019 through March 31, 2020**, unless otherwise revoked, or superseded by decree. Should an additional SWSP be requested, the provisions of § 37-92-308(5)(b), C.R.S., shall apply. The statutory fee of $300 will be required pursuant to § 37-92-308(8), C.R.S. Any request for an additional SWSP must be submitted to this office no later than January 2, 2020.

2. In accordance with § 37-92-308(5), C.R.S., this SWSP cannot be renewed or approved for more than five years. **This approval is for the third year of operation.**

3. Approval of this SWSP is for the purposes stated herein. ARCA Resolution No. 2019-01 (dated February 14, 2019) and the Permanent Pool Agreement (dated February 21, 2019) permit the operation as described herein. Operations approved under this SWSP shall comply with these agreements. Any renewal of this SWSP MUST have prior approval by all entities involved. Additionally, operation of the Highland Canal water rights shall be done in adherence to the Memorandum of Agreement Related to the Highland Canal Water Right and Resolution of Lower Arkansas Water Management Association Matrix Issues Nos. 9 and 12 dated February 21, 2019 (Highland Water Right Agreement) also attached.

4. Accounting of water in this plan will be performed utilizing the shared Google accounting sheet for the Highland Canal water right maintained jointly by LAWMA and the Division 2 Office with any distribution of the accounting accomplished by the Division 2 Office and/or LAWMA as appropriate.

5. Maintenance of return flows for the Highland Canal water rights and volumetric limits shall comply with the requirements of the decrees in Case Nos. 02CW181 and 10CW085 when the water rights are used for the Permanent Pool uses approved under this SWSP as further delineated in the Highland Water Right Agreement.

6. The State Engineer may revoke this SWSP or add additional restrictions to its operation if at any time the State Engineer determines that injury to other vested water rights has or will occur as a result of the operation of this SWSP. Should this SWSP expire without renewal or be revoked prior to adjudication of a permanent plan for augmentation, all use of water under this plan must cease immediately.

7. The decision of the State Engineer shall have no precedential or evidentiary force, shall not create any presumptions, shift the burden of proof, or serve as a defense in any pending water court case or any other legal action that may be initiated concerning the SWSP. This decision shall not bind the State Engineer to act in a similar manner in any other applications involving other SWSPs or in any proposed renewal of this SWSP, and shall not imply concurrence with any findings of fact or conclusions of law contained herein, or with the engineering methodologies used by the Applicant. Any appeal of a decision made by the State Engineer concerning an SWSP pursuant to § 37-92-308(5), C.R.S., shall be to the Division 2 Water Judge within thirty days of the date of this decision.

Should you have any questions, please contact Kate Fuller of this office or Lonnie Spady, in our Division 2 office in La Junta at (719) 384-1000.

Sincerely,

Jeff Deatherage, P.E.
Chief of Water Supply

Attachments: ARCA Resolution No. 2019-01
Permanent Pool Agreement
Tables 1, 2

cc: Bill Tyner, Division Engineer
Kevin Salter, Kansas Department of Agriculture
Dale Book, Spronk Water Engineers
Brett Ackerman, CPW
Katie Wiktor, AG's Office
Don Higbee, LAWMA
Richard Mehren, MWHW
Division 2 SWSP Review Team
Lonnie Spady, East Regional Team Leader, District 17
Brandy Cole, Water Commissioner Districts 66 & 67

Arkansas River Compact Administration
Resolution No. 2019-01

Regarding John Martin Reservoir Permanent Pool

WHEREAS, Section 204 of the Flood Control Act of 1965 authorized a "permanent pool for fish and wildlife and recreational purposes" at John Martin Reservoir ("JMR"); and

WHEREAS, Section 204 of the Flood Control Act of 1965 required that the State of Colorado "purchase and make available any water rights necessary under State law to establish and thereafter maintain the permanent pool"; and

WHEREAS, Section 204 of the Flood Control Act of 1965 required that the Arkansas River Compact Administration ("ARCA") approve "written terms and conditions . . . [for] establishing, maintaining, and operating the permanent pool"; and

WHEREAS, by the Resolution Concerning John Martin Reservoir Permanent Pool ("1976 Resolution") adopted on August 14, 1976, ARCA "approve[d] the creation in [JMR] of a permanent pool . . . and adopt[ed] the criteria . . . as procedures for the operation of [JMR]"; and

WHEREAS, the 1976 Resolution further provided that "water deliveries from other valid water rights owned or controlled by the State of Colorado may be added to the permanent pool water supply subject to the approval of [ARCA]"; and

WHEREAS, The Resolution Concerning an Operating Plan for John Martin Reservoir (Apr. 24, 1980, as amended) ("1980 Operating Plan") recognizes the permanent pool authorized by the 1976 Resolution and makes the operation of the permanent pool subject to the terms of the 1980 Operating Plan; and

WHEREAS, pursuant to a Water Management Agreement between the Colorado Division of Parks and Wildlife and the Lower Arkansas Water Management Association ("LAWMA"), LAWMA will allow use of its Highland Canal water rights located in District 17 upstream of JMR and diverting from the Purgatoire River as a source of water supply for the permanent pool; and

WHEREAS, the States of Colorado and Kansas have agreed to the delivery of fully consumable water from LAWMA's Highland Canal water rights under certain conditions ;

NOW THEREFORE, BE IT RESOLVED that pursuant to the terms of its 1976 Resolution the Arkansas River Compact Administration hereby approves the use of the Highland Canal water rights, formerly diverted from the Purgatoire River in District 17, as an additional source of water supply for the permanent pool at JMR so long as the States of Colorado and Kansas maintain a written agreement between them which allows such use and sets forth any applicable terms and conditions of that use.

ADOPTED by the Arkansas River Compact Administration at the Special Meeting held telephonically on February 14, 2019.

The effective date of this Resolution shall be the date on which the Chief of Engineers of the Corps of Engineers, or his duly authorized representative, concurs with this Resolution by signing and dating below in the space provided.

James J. Rizzuto — 2/15/2019

Jim Rizzuto, Chairman
Arkansas River Compact Administration

Date

Stephanie Gonzales — 2/21/2019

Stephanie Gonzales, Recording Secretary,
Arkansas River Compact Administration

Date

Concurrence

8 MAR 19

Lt. Col Dale Caswell, Jr
Commander and District Engineer,
Albuquerque District, U.S. Army Corps of Engineers
Duly Authorized Representative of the Chief of Engineers,
U.S. Army Corps of Engineers

Date

Copy 1 of 4

MEMORANDUM OF AGREEMENT RELATED TO THE DELIVERY OF HIGHLAND CANAL WATER INTO THE PERMANENT POOL AT JOHN MARTIN RESERVOIR

This MEMORANDUM OF AGREEMENT RELATED TO THE DELIVERY OF HIGHLAND CANAL WATER INTO THE PERMANENT POOL AT JOHN MARTIN RESERVOIR ("Agreement") is entered into this 21st day of February, 2019, by and between the State of Colorado and the State of Kansas (collectively the "States").

WHEREAS, the Arkansas River Compact was entered into between the States and consented to by the United States in 1948 to equitably divide and apportion the waters of the Arkansas River and their utilization, among other purposes, between the States;

WHEREAS, the Flood Control Act of 1965 authorized a permanent pool for wildlife and recreation purposes at John Martin Reservoir ("Permanent Pool");

WHEREAS, various other acts by the States and by the Arkansas River Compact Administration ("ARCA") have recognized the authority for creating and operating the Permanent Pool;

WHEREAS, a ready source of water supply has not always been available to the State of Colorado for the Permanent Pool;

WHEREAS, the Highland Canal water rights ("Highland Canal Water") are an important source of water for the Offset Account at John Martin Reservoir;

WHEREAS, pursuant to a water management agreement between the Colorado Division of Parks and Wildlife and the Lower Arkansas Water Management Association ("LAWMA"), LAWMA will allow use of its Highland Canal Water, located in District 17 upstream of John Martin Reservoir and diverting from the Purgatoire River, as a source of water supply for the Permanent Pool; and

WHEREAS, for the mutual benefit of the States, the State of Colorado and the State of Kansas wish to authorize the delivery of Highland Canal Water into the Permanent Pool under the conditions contained in this Agreement.

NOW THEREFORE, BE IT AGREED,

1. Highland Canal Water may not be delivered to the Permanent Pool pursuant to this Agreement until ARCA approves the use of Highland Canal Water as a source of water for the Permanent Pool.
2. Each year that this Agreement is in effect, the State of Colorado and LAWMA agree to deliver an amount of fully consumable water ("Delivery Requirement") to the Offset Account in John Martin Reservoir between March 1st and November 15th, as determined each year pursuant to this Agreement.

3. This Agreement will be in effect during each calendar year that LAWMA delivers Highland Canal Water to the Permanent Pool and the terms and conditions of this Agreement will only apply at times when the Agreement is in effect.

4. By March 1st of each year, LAWMA shall provide to the Colorado Division of Water Resources, along with their Rule 14 Replacement Plan Application and their Annual Augmentation Plan Projection, an annual source analysis in the format shown in the file "LAWMA_SourceAnalysisForHighlandPermanentPool_EstimateV1.0" ("Annual Source Analysis") or a subsequent version as agreed to by the States pursuant to this Agreement. The Annual Source Analysis is hereby incorporated by reference. The Annual Source Analysis, LAWMA's Rule 14 Replacement Application, and LAWMA's Annual Augmentation Plan Projection shall be provided by the State of Colorado to the State of Kansas no later than March 5th of each year. This Annual Source Analysis will propose an Annual Target Amount and a Minimum Delivery Amount.

5. Water in the Kansas Charge subaccount and any non-consumable storage subaccounts in the Offset Account shall not be considered a part of the Annual Target Amount or Minimum Delivery Amount deliveries under this Agreement.

6. The March 1 Offset Account storage balance for the consumable subaccounts, with the exception of the Kansas Charge subaccount, will be used to determine a Minimum Delivery Amount as part of the Annual Source Analysis. If on March 1, the Offset Account storage balance is 4,000 acre-feet or less, the Minimum Delivery Amount will be 6,000 acre-feet. If on March 1, the Offset Account storage balance is between 4,001 acre-feet and 10,000 acre-feet, the Minimum Delivery Amount will be the difference between 10,000 acre-feet and Offset Account storage balance on March 1. If on March 1, the Offset Account storage balance is more than 10,000 acre-feet, the Minimum Delivery Amount will be zero. However, if the amount released by Kansas from the Offset Account during the prior calendar year for Stateline delivery was 2,000 acre-feet or less, the Minimum Delivery Amount as calculated above will be further reduced by 2,000 acre-feet or shall be zero, whichever is greater.

7. During the month of March each year the States shall confer with one another and LAWMA, and either accept or recommend modification of the values used in the Annual Source Analysis and determine the final values for the Annual Target Amount and the Minimum Delivery Amount. The Delivery Requirement will be the greater of Annual Target Amount or Minimum Delivery Amount and shall be set by agreement between the Assistant Operations Secretary and Operations Secretary acting on behalf of each State by March 31st of each year. If the States and LAWMA cannot reach agreement prior to March 31st in any year, Highland Canal Water will not be delivered to the Permanent Pool during that calendar year and none of the other requirements of this Agreement shall be in effect for that calendar year, unless otherwise agreed to in writing by the States and LAWMA.

8. Any agreement related to the values coming out of the Annual Source Analysis does not constitute agreement with LAWMA's underlying accounting.

9. This Agreement shall not prohibit deliveries to the Offset Account in excess of the Delivery Requirement, nor shall this Agreement limit the ability to deliver Highland Canal Water to the Offset Account.

10. At least two thirds of the Delivery Requirement shall be delivered to the Offset Account by July 1st.

11. LAWMA agrees to provide a clear and concise report to the State of Colorado on LAWMA's Stateline depletions that exceed LAWMA's replacement water deliveries made directly to the Stateline without use of the Offset Account, separated by pre-1986 and post-1985 depletions. Such report shall be delivered to the State of Colorado and forwarded to the State of Kansas by Colorado by the 15th of each month from April through October, recognizing that the data available to LAWMA's engineer will be estimated for some replacement sources and may be updated in subsequent reports. These reports shall be formatted to include, at a minimum, the following information:

> For _(month/year)_ there are _____ acre-feet of pre-1986 Stateline depletions and _____ acre-feet of post-1985 Stateline depletions that exceed LAWMA's replacement water deliveries made directly to the Stateline without use of the Offset Account. For the calendar year, there are a total of _____acre-feet of pre-1986 Stateline depletions and _____ acre-feet of post-1985 Stateline depletions that exceed LAWMA's replacement water deliveries made directly to the Stateline without use of the Offset Account.

12. In the case of a spill of the Offset Account, or if a spill of the Offset Account appears likely, any quantity of water required by this Agreement to be delivered to the Offset Account may be delayed for the purpose of avoiding a spill of such deliveries. The terms and conditions of any such delay shall be first proposed in writing by LAWMA. There shall be no allowable delay in delivery until such terms and conditions are approved in writing by the Chief Engineer of the State of Kansas.

13. LAWMA and the Colorado Division of Parks and Wildlife must obtain approval for a Substitute Water Supply Plan ("SWSP") pursuant to §37-92-308(4) or §37-92-308(5) of the Colorado Revised Statutes or obtain an applicable change of use decree from Colorado Water Court prior to delivery of Highland Canal Water to the Permanent Pool.

14. After ARCA has approved the use Highland Canal Water as a source of water for the Permanent Pool and upon receipt of an approved SWSP or Colorado Water Court approval, Highland Canal Water may be delivered to the Permanent Pool on a daily basis to the extent it is not needed to fulfill the commitment to the Offset Account pursuant to the terms of this Agreement.

15. Highland Canal Water shall not be delivered to the Permanent Pool in months when any portion of Highland Canal Water is used for in-state replacement.

16. Replacement credit will not be claimed as special water input to the H-I Model for the unconsumed transit losses incurred when Highland Canal Water is being delivered to the Permanent Pool. LAWMA may claim in-state replacement credit in the monthly accounting maintained by the State of Colorado for unconsumed transit losses allowed by either of the LAWMA decrees entered in Case Nos. 02CW181 and 10CW085, District Court, Water Division No. 2, State of Colorado, or an approved SWSP, provided that such claims do not exceed the allowable amounts contained in **Attachment A** (MEMORANDUM OF AGREEMENT RELATED TO THE HIGHLAND CANAL WATER RIGHT AND RESOLUTION OF LOWER ARKANSAS WATER MANAGEMENT ASSOCIATION MATRIX ISSUES NOS. 9 AND 12).

17. LAWMA or the Colorado Division of Parks and Wildlife, through Colorado Division of Water Resources staff, shall notify the State of Kansas and the ARCA Operations Secretary prior to beginning delivery of Highland Canal Water to the Permanent Pool.

18. The ARCA Operations Secretary shall keep accurate records of all deliveries into the Permanent Pool, provide such information to the State of Kansas upon request, and include an annual summary of all Permanent Pool operations in the Operation Secretary's annual report to ARCA.

19. Nothing in this Agreement shall be construed to alter in any way the State of Colorado's obligation to maintain compliance with the Arkansas River Compact.

20. Approval of this Agreement does not waive either State's position on allowable uses of Highland Canal Water.

21. Approval of this Agreement does not waive either State's position concerning the interpretation of Appendix A.4 of the decree entered in *Kansas v. Colorado*, No. 105, Orig.

22. The States agree to review at each ARCA Annual Meeting the terms of this Agreement and ensure they are being implemented as intended and with the desired effect, including whether any modification of the Agreement is necessary. The review shall be conducted by the Engineering Committee, unless otherwise assigned by ARCA, and the results shall be reported by the committee during its annual meeting report. The annual review may be waived if agreed to by both States.

23. Any proposed changes to the Annual Source Analysis, including any changes to the spreadsheet upon which the Annual Source Analysis is based, shall be considered during the ARCA Annual Meeting review of this Agreement. The States shall agree to any proposed changes by memorializing them in writing in a formal addendum that shall be attached to this Agreement. All approved changes shall take effect for the next Annual Source Analysis after approval by the States. Changes to the Annual Source Analysis shall not require approval by ARCA.

24. Following the annual review and ARCA Annual Meeting, this Agreement may be suspended by either State if notice is provided to ARCA and the other State by

January 15th of the calendar year in which the Agreement shall be suspended. Such notice shall be in writing and contain both a preliminary statement about why the Agreement has been suspended and any specific issues for discussion between the States. If the Agreement remains suspended for three consecutive years, then the Agreement shall terminate unless otherwise agreed upon in writing by the States.

25. All notices, reports, and other documents required by this Agreement may be delivered by email or any other electronic means acceptable to the States.

Kevin G. Rein, P.E.
Colorado State Engineer

David W. Barfield, P.E.
Kansas Chief Engineer

2 of 2 originals

TABLE 1

PERTINENT DATA FOR JOHN MARTIN RESERVOIR AND THE HIGHLAND CANAL WATER RIGHTS

(values in ac-ft)

		Historical Data									
		Permanent Pool				JMR					
Year		Inflows	Evap	Spills	EOY Contents	Evap	EOY Contents	02CW181 Highland Direct Flow Div.	10CW85 Highland Direct Flow Div	Days in Cons. Storage	Days JMR Spill
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
1980		10,397	1,768	394	8,235	20,564	35,395	6,839	336	271	0
1981		31	2,705	0	5,561	14,958	13,713	7,889	387	201	0
1982		126	2,313	0	3,374	11,516	12,241	7,337	360	195	0
1983		11,527	1,524	0	13,377	26,457	67,444	10,775	529	286	0
1984		2,201	2,367	0	13,210	32,303	204,908	7,636	375	283	0
1985		46	1,664	2,432	9,160	49,891	280,952	8,824	433	310	7
1986		198	1,540	0	7,818	44,881	226,308	7,084	348	206	0
1987		2,588	1,028	0	9,377	55,787	246,368	10,448	513	365	94
1988		0	1,740	205	7,433	40,127	78,984	8,284	407	189	0
1989		0	1,980	0	5,453	20,733	27,407	2,465	121	172	0
1990		1,198	1,842	0	4,808	15,457	17,589	4,490	220	174	0
1991		79	2,119	0	2,768	12,654	8,387	4,495	221	168	0
1992		0	1,017	0	1,751	13,327	13,285	6,920	340	172	0
1993		8,031	1,319	0	8,462	17,895	41,275	7,565	371	178	0
1994		7,747	3,018	0	13,191	25,358	65,255	8,137	399	188	0
1995		131	2,013	1,840	9,469	40,842	257,884	7,768	381	336	36
1996		884	1,633	0	8,721	45,491	230,535	6,297	309	231	0
1997		258	1,416	0	7,562	48,626	296,088	9,016	443	280	0
1998		2,796	1,318	0	9,040	54,700	242,531	9,004	442	310	134
1999		834	948	0	8,925	54,721	326,210	577	28	363	84
2000		-48	1,663	0	7,215	50,873	110,993	5,339	262	211	43
2001		200	1,644	0	5,770	29,802	49,461	4,120	202	179	0
2002		0	2,082	0	3,688	20,345	21,396	2,910	143	162	0
2003		0	1,594	0	2,093	15,962	19,250	5,323	261	163	0
2004		1,040	1,261	0	1,873	9,600	16,632	5,517	271	165	0
2005		498	1,074	4	1,293	14,544	8,464	14,105	692	183	0
2006		0	724	0	569	10,262	5,701	4,585	225	167	0
2007		7,683	993	0	7,983	16,909	23,888	15,665	769	186	0
2008		3,876	3,777	0	8,082	17,387	35,418	8,042	395	175	0
2009		2,956	2,664	0	8,374	16,168	25,614	8,297	407	173	0
2010		4,608	3,256	0	9,002	18,239	26,584	10,912	536	181	0
2011		764	4,731	0	5,035	15,349	9,449	2,258	111	167	0
2012		3,641	3,824	0	4,851	15,325	15,995	2,255	111	164	0
2013		474	2,478	0	2,847	14,341	19,014	5,081	249	167	0
2014		197	1,544	0	1,515	15,353	6,193	5,885	289	169	0
Average		2,142	1,960	139	6,511	26,478	88,195	6,918	340	214	11
Maximum		11,527	4,731	2,432	13,377	55,787	326,210	15,665	769	365	134
Minimum		-48	724	0	569	9,600	5,701	577	28	162	0

Note: Negative value in 2000 due to recalibration of the storage area capacity table. All accounts were adjusted.

Column Explanations:

1) November to October Water Year
2) Intentionally left blank.
3) Historical inflows to permanent pool which includes purchased trans-mountain water and water stored from Muddy Creek water right.
4) Historical evaporation from the permanent pool.
5) Historical spills from the permanent pool.
6) Historical end of the year, October 31contents of the permanent pool. Permanent pool was empty entering water year 1980.
7) Historical evaporation on the entire contents of John Martin Reservoir.
8) Historical end of the year, October 31 contents of John Martin Reservoir.
9) Historical direct flow diversions for the 02CW181 Highland Canal Water Rights as compiled by the Division 2 Engineer's staff.
10) Historical direct flow diversions for the 10CW85 Highland Canal Water Rights as compiled by the Division 2 Engineer's staff.
11) The number days water was stored in the Summer or Winter Conservation Storage Accounts.
12) Number of days water was transferred into the Flood Pool account to be released for spills.

Sources:

a) The historical data were taken from the John Martin Reservoir Daily Operations databases: Files - JM_Archive7901.mdb and JohnMartinArchive2001-2003.mdb and annual tbldata.mdb as provided by the Colorado Division of Water Resources - Division 2.

b) Highland Direct Flow Diversions: CDSS data and LAWMA monthly accounting

Table 2
PROPOSED OPERATION OF THE PERMANENT POOL IN JOHN MARTIN RESERVOIR USING THE 02CW181 HIGHLAND WATER RIGHTS TO REPLACE EVAPORATION
(values in ac-ft)

	Operational Scenario								
						Permanent Pool			
Year	Total Highland CU Water	CPW Center Farm CU Delivered	2015 CPW Structures Augmented	Water Management Fee (15%)	Maximum available to CPW	Evap Loss	Spill	Highland CU Water Inflow	EOY Contents
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1980	3,576	3,350	227	502	2,621	1,814	0	1,317	14,249
1981	4,574	4,317	257	648	3,413	2,369	0	2,094	11,300
1982	4,389	4,143	245	621	3,276	2,881	0	1,964	8,197
1983	5,680	5,319	362	798	4,159	1,404	0	2,245	15,000
1984	4,037	3,775	263	566	2,946	998	0	0	15,000
1985	4,623	4,340	282	651	3,407	793	0	1,958	14,989
1986	4,510	4,272	238	641	3,393	1,164	0	2,459	14,943
1987	5,443	5,095	348	764	3,982	1,196	0	713	15,000
1988	4,141	3,879	262	582	3,034	1,430	0	2,245	14,890
1989	1,106	1,027	79	154	794	2,143	0	1,017	11,784
1990	2,607	2,465	142	370	1,952	2,341	0	2,199	10,997
1991	2,546	2,393	152	359	1,882	3,269	0	2,254	7,941
1992	4,198	3,975	223	596	3,155	2,581	0	3,081	7,425
1993	4,966	4,717	249	708	3,761	1,809	0	2,883	15,000
1994	4,972	4,713	259	707	3,747	1,807	0	1,302	15,000
1995	3,464	3,216	247	482	2,487	1,130	0	407	14,989
1996	4,205	3,997	208	600	3,189	1,094	0	1,792	14,938
1997	4,258	3,971	287	596	3,089	1,184	0	2,392	14,988
1998	5,991	5,705	286	856	4,564	1,238	0	0	15,000
1999	430	408	22	61	325	946	0	394	14,561
2000	3,282	3,120	162	468	2,490	1,431	0	3,120	14,539
2001	2,781	2,645	136	397	2,112	1,758	0	706	12,042
2002	1,878	1,784	94	268	1,422	2,392	0	525	8,092
2003	3,391	3,223	169	483	2,571	2,281	0	1,006	5,223
2004	3,803	3,617	186	543	2,889	2,397	0	2,054	4,660
2005	9,395	8,944	451	1,342	7,151	2,275	0	2,252	4,058
2006	2,909	2,767	143	415	2,209	2,209	0	2,752	3,877
2007	10,697	10,185	512	1,528	8,145	1,538	0	2,646	12,399
2008	5,062	4,813	249	722	3,843	2,021	0	2,171	12,647
2009	5,172	4,920	252	738	3,930	1,582	0	2,433	13,790
2010	7,765	7,395	370	1,109	5,916	2,181	0	2,331	14,568
2011	1,522	1,442	80	216	1,146	3,234	0	1,437	8,804
2012	1,196	1,133	63	170	900	1,967	0	555	7,209
2013	3,432	3,262	171	489	2,602	1,414	0	1,345	5,136
2014	3,788	3,597	191	540	2,866	1,845	0	2,014	3,972
Average	3,811	3,592	219	539	2,835	1,703	0	1,612	13,081
Maximum	5,991	5,705	362	856	4,564	3,269	0	3,120	15,000
Minimum	430	408	22	61	325	793	0	0	7,425

Note: The operation study was performed on a daily time step and the results summarized annually. This operation study does not include temporary leases of Colorado Parks and Wildlife Lamar Canal shares to non-CPW structures within the LAWMA Augmentation plan.

Column Explanations:

1) November to October Water Year
2) Highland Canal consumptive use water from the Highland Canal water rights changed in 02CW181 & 10CW85 limited to 1) April through October and 2) to maximum monthly, maximum annual, and 20-year cumulative total volumetric limits.
3) Lamar Canal consumptive use deliveries through the Center Farm augmentation station for the Colorado Parks and Wildlife's 4,720 Lamar Canal shares changed in Case No. 02CW181.
4) Colorado Parks and Wildlife structures currently being augmented in LAWMA augmentation plan.
5) Water management fee calculated as Column 6 x 15%.
6) Maximum consumptive use water available to Colorado Parks and Wildlife. Calculated as the minimum of Column 2 and Column 4 minus the sum of Columns 4 through 5.
7) Calculated on a daily basis as previous end of day's contents multiplied by total John Martin Reservoir evaporation divided by end of day's John Martin Reservoir contents.
8) If John Martin Reservoir spills then Permanent Pool account spills when the account is over 10,000 acre-feet. The account doesn't spill if the Permanent Pool is less than 10,000 acre-feet.
9) Consumptive use credits delivered to the Permanent Pool when the reservoir is not spilling and the contents of the Permanent Pool have not exceeded 15,000 acre-feet. This does not include trans-mountain water right.
10) End of year contents of the Permanent Pool calculated as Previous Column 10 - Column 7 - Column 8 + Column 9.

Section 4

COLORADO
Division of Water Resources
Department of Natural Resources

Water Division 2 – Main Office
310 E. Abriendo Ave, Suite B
Pueblo, CO 81004

March 15, 2019

Mr. David Barfield
Kansas Chief Engineer
Kansas Board of Agriculture
901 S. Kansas Avenue, 2nd Floor
Topeka, KS 66612-1283

Ms. Stephanie Gonzales
Recording Secretary
Arkansas River Compact Administration
P.O. Box 1106
Lamar, CO 81052

RE: Monthly Report of Colorado Pumping and Offset Account Operations for November 2018

Dear Mr. Barfield and Ms. Gonzales:

The purpose of this letter is to provide the monthly report required by paragraph 12 of the **Resolution Concerning an Offset Account in John Martin Reservoir for Colorado Pumping as Amended April 30, 1998** ("Resolution"). This letter reports the monthly pumping in excess of Colorado's pre-Compact entitlement, Colorado's monthly accounting of Compact compliance, and the status of water delivered to the Offset Account, all during the month of November, 2018.

Table 1 shows the amount of pumping during the month of November 2018 by irrigation wells pumping from the Valley Fill Aquifer and surficial aquifers along the Arkansas River between Pueblo and the Stateline, as well as the corresponding wellhead depletions, by user group. The wellhead depletions were computed using the presumptive stream depletions in Rule 4.2 of the **AMENDED RULES AND REGULATIONS GOVERNING THE DIVERSION AND USE OF TRIBUTARY GROUND WATER IN THE ARKANSAS RIVER BASIN, COLORADO** ("Rules") approved in Case No. 95CW211.

Table 2 shows the wellhead depletions due to pumping by irrigation wells in the user groups below John Martin Reservoir that are in excess of the pre-Compact entitlements.

Since the replacement of depletions caused by pumping approved pursuant to the Rules that occurred above John Martin Reservoir has been detailed in the accounting previously provided to Kansas, the accounting in this report shows only remaining depletions caused by irrigation pumping in excess of the pre-Compact entitlements for those river reaches where no replacements were made to replace out-of-priority depletions to senior surface water rights in Colorado.

These stream depletions were computed using the wellhead depletions shown in Table 2 with the Ground Water Accounting Model. Please note that in Reaches 11, 12, 13, 14, 15, 16 replacements to senior surface water rights in Colorado did not replace any the stream depletions caused by pumping affecting those reaches since there was not a call by a Colorado surface right in those reaches during November

The remaining depletions shown in Table 3 are the estimated stream depletions caused by irrigation pumping in excess of the pre-Compact entitlements remaining after replacements were made to senior surface water rights in Colorado. Table 3 also shows the estimated depletions to usable Stateline flow, which were

calculated using the assumptions in paragraph 5.B of the Resolution, and the replacements to Stateline flows, which were made during the month.

In the month of November 2018 38.43 acre-feet of Fort Lyon Canal consumable water was delivered into the Offset Account Consumable Downstream sub-account. This was the only delivery made to the Offset Account during this time period.

As of November 30, 2018, a total of 7652.08 acre-feet was stored in the Offset Account. The accounting spreadsheet for the Offset Account for the month of November is attached at Enclosure 1.

Please contact me if you have any questions or require additional information.

Sincerely,

Rachel A. Zancanella, P.E.
Assistant Division Engineer
Colorado Division of Water Resources

cc: Kevin Salter
Dale Book
Dan Steuer
Randy Hendrix
Charlie DiDomenico
Bill Tyner

TABLE 1
Pumping By Rule 3 Irrigation Wells
November 2018

USER NO.	DITCH NAME	AF PUMPED	WELLHEAD DEPL
1	BESSEMER	57.36	32.07
2	BOOTH ORCHARD	0.06	0.02
3	EXCELSIOR	0.01	0
4	COLLIER	0	0
5	COLORADO	0.01	0.01
6	ROCKY FORD HIGHLINE	21.9	7.88
7	OXFORD	24.2	8.7
8	OTERO	0	0
9	CATLIN	0.8	0.34
10	FORT LYON US	0.05	0.02
11	ROCKY FORD	0	0
12	HOLBROOK	0	0
13	LAS ANIMAS CONSOLIDATED	0	0
14	BALDWIN-STUBBS	35.64	35.64
15	FORT BENT	12.71	8.91
17	AMITY	31.58	14.39
18	LAMAR/MANVEL	8.27	2.98
19	HYDE	0	0
20	FORT LYON DS	25.42	10.77
21	XY GRAHAM	0	0
22	BUFFALO	0.06	0.02
24	STATELINE SOLE SOURCE	57.82	43.37
601	LAWMA A.P.D.	0	0
602	LAWMA A.P.D.	0	0
	Totals	275.89	165.12

TABLE 2
Wellhead Depletions from Irrigation Wells below John Martin Reservoir (Acre-Feet)
(Reduced By Pre-Compact Entitlements)
November 2018

USER NUMBER

10	15	16	17	18	19	20	21	22	23	24	Total
0.00	0.00	0.00	0.00	0.00	8.91	0.00	14.39	4.02	0.00	10.77	38.09

TABLE 3
Remaining Depletions to Usable Stateline Flow (Acre-Feet)
November 2018

REACH NUMBER		11	12	13	14	15	16	17	18	21	Sum	
Balance Forward from Previous Month		0	0	0	0	0	0	0	0	0	0	
Remaining Depletion		8.20	15.67	62.87	71.22	44.34	132.67	286.87	488.84	21.55	1132.23	
Depletion to Usable SL Flow		2.86	5.47	21.94	24.85	15.47	46.30	100.12	170.60	7.52	395.15	
Replacements												Credit to Next Month
FRY-ARK Return Flows	0	0.00	0.00	0.00	0.00						0.00	0
PBWW TM & AG Return Flows	0	0.00	0.00	0.00	0.00						0.00	0
CO Beef - Lamar Center Farm	0				0						0.00	0
Lamar Center Farm	0				0	0					0.00	0
Lamar Granada East/West								0.00			0.00	0.00
Ft Bent Ditch Shares	0				0						0.00	0
Stubbs Direct Flow	0								0		0.00	0
XY Direct Flow	0					0					0.00	0
Manvel Direct Flow	0					0					0.00	0
Offset Account Release Credit*	10450.78									395.15	395.15	9206.40
Offset Account Transit Loss	0	0.00			0.00			0.00			0.00	0
Offset Account Water	0	0									0.00	0
Total Replacements	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	395.15	395.15	
Depletions Carried Forward	0	0	0	0	0	0	0	0	0	0	0.00	

* Note that a 849.23 acre-foot depletion balance was brought to zero using Offset Account Release credits in November 2018.

Enclosure 1

John Martin Offset Accounting for November 2018

OffsetAccount-Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						7679.93
1	0.00	0.00	0.00	0.00	5.13	7674.80
2	0.00	0.00	0.00	0.00	2.68	7672.12
3	0.00	0.00	0.00	0.00	2.68	7669.44
4	0.00	0.00	0.00	0.00	2.89	7666.55
5	0.00	0.00	0.00	0.00	2.23	7664.32
6	0.00	0.00	0.00	0.00	0.88	7663.44
7	2.66	0.00	0.00	0.00	2.23	7663.87
8	3.84	0.00	0.00	0.00	3.56	7664.15
9	6.29	0.00	0.00	0.00	2.01	7668.43
10	16.42	0.00	0.00	0.00	2.01	7682.84
11	9.22	0.00	0.00	0.00	2.01	7690.05
12	0.00	0.00	0.00	0.00	2.01	7688.04
13	0.00	0.00	0.00	0.00	2.01	7686.03
14	0.00	0.00	0.00	0.00	2.01	7684.02
15	0.00	0.00	0.00	0.00	2.01	7682.01
16	0.00	0.00	0.00	0.00	2.01	7680.00
17	0.00	0.00	0.00	0.00	2.01	7677.99
18	0.00	0.00	0.00	0.00	2.01	7675.98
19	0.00	0.00	0.00	0.00	2.00	7673.98
20	0.00	0.00	0.00	0.00	2.00	7671.98
21	0.00	0.00	0.00	0.00	2.00	7669.98
22	0.00	0.00	0.00	0.00	1.99	7667.99
23	0.00	0.00	0.00	0.00	1.99	7666.00
24	0.00	0.00	0.00	0.00	1.99	7664.01
25	0.00	0.00	0.00	0.00	1.99	7662.02
26	0.00	0.00	0.00	0.00	1.99	7660.03
27	0.00	0.00	0.00	0.00	1.99	7658.04
28	0.00	0.00	0.00	0.00	1.99	7656.05
29	0.00	0.00	0.00	0.00	1.99	7654.06
30	0.00	0.00	0.00	0.00	1.98	7652.08
	38.43	0.00	0.00	0.00	66.28	

OffsetAccount-Consumable Upstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						1485.04
1	0.00	0.00	0.00	0.00	0.99	1484.05
2	0.00	0.00	0.00	0.00	0.52	1483.53
3	0.00	0.00	0.00	0.00	0.52	1483.01
4	0.00	0.00	0.00	0.00	0.56	1482.45
5	0.00	0.00	0.00	0.00	0.43	1482.02
6	0.00	0.00	0.00	0.00	0.17	1481.85
7	0.00	0.00	0.00	0.00	0.43	1481.42
8	0.00	0.00	0.00	0.00	0.69	1480.73
9	0.00	0.00	0.00	0.00	0.39	1480.34
10	0.00	0.00	0.00	0.00	0.39	1479.95
11	0.00	0.00	0.00	0.00	0.39	1479.56
12	0.00	0.00	0.00	0.00	0.39	1479.17
13	0.00	0.00	0.00	0.00	0.39	1478.78
14	0.00	0.00	0.00	0.00	0.39	1478.39
15	0.00	0.00	0.00	0.00	0.39	1478.00
16	0.00	0.00	0.00	0.00	0.39	1477.61
17	0.00	0.00	0.00	0.00	0.39	1477.22
18	0.00	0.00	0.00	0.00	0.39	1476.83
19	0.00	0.00	0.00	0.00	0.38	1476.45
20	0.00	0.00	0.00	0.00	0.38	1476.07
21	0.00	0.00	0.00	0.00	0.38	1475.69
22	0.00	0.00	0.00	0.00	0.38	1475.31
23	0.00	0.00	0.00	0.00	0.38	1474.93
24	0.00	0.00	0.00	0.00	0.38	1474.55
25	0.00	0.00	0.00	0.00	0.38	1474.17
26	0.00	0.00	0.00	0.00	0.38	1473.79
27	0.00	0.00	0.00	0.00	0.38	1473.41
28	0.00	0.00	0.00	0.00	0.38	1473.03
29	0.00	0.00	0.00	0.00	0.38	1472.65
30	0.00	0.00	0.00	0.00	0.38	1472.27
	0.00	0.00	0.00	0.00	12.77	

OffsetAccount-Consumable Kansas

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-Consumable Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						7648.97
1	0.00	0.00	0.00	0.00	5.11	7643.86
2	0.00	0.00	0.00	0.00	2.67	7641.19
3	0.00	0.00	0.00	0.00	2.67	7638.52
4	0.00	0.00	0.00	0.00	2.88	7635.64
5	0.00	0.00	0.00	0.00	2.22	7633.42
6	0.00	0.00	0.00	0.00	0.88	7632.54
7	2.66	0.00	0.00	0.00	2.22	7632.98
8	3.84	0.00	0.00	0.00	3.55	7633.27
9	6.29	0.00	0.00	0.00	2.00	7637.56
10	16.42	0.00	0.00	0.00	2.00	7651.98
11	9.22	0.00	0.00	0.00	2.00	7659.20
12	0.00	0.00	0.00	0.00	2.00	7657.20
13	0.00	0.00	0.00	0.00	2.00	7655.20
14	0.00	0.00	0.00	0.00	2.00	7653.20
15	0.00	0.00	0.00	0.00	2.00	7651.20
16	0.00	0.00	0.00	0.00	2.00	7649.20
17	0.00	0.00	0.00	0.00	2.00	7647.20
18	0.00	0.00	0.00	0.00	2.00	7645.20
19	0.00	0.00	0.00	0.00	1.99	7643.21
20	0.00	0.00	0.00	0.00	1.99	7641.22
21	0.00	0.00	0.00	0.00	1.99	7639.23
22	0.00	0.00	0.00	0.00	1.98	7637.25
23	0.00	0.00	0.00	0.00	1.98	7635.27
24	0.00	0.00	0.00	0.00	1.98	7633.29
25	0.00	0.00	0.00	0.00	1.98	7631.31
26	0.00	0.00	0.00	0.00	1.98	7629.33
27	0.00	0.00	0.00	0.00	1.98	7627.35
28	0.00	0.00	0.00	0.00	1.98	7625.37
29	0.00	0.00	0.00	0.00	1.98	7623.39
30	0.00	0.00	0.00	0.00	1.97	7621.42
	38.43	0.00	0.00	0.00	65.98	

OffsetAccount-Consumable Downstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						6163.93
1	0.00	0.00	0.00	0.00	4.12	6159.81
2	0.00	0.00	0.00	0.00	2.15	6157.66
3	0.00	0.00	0.00	0.00	2.15	6155.51
4	0.00	0.00	0.00	0.00	2.32	6153.19
5	0.00	0.00	0.00	0.00	1.79	6151.40
6	0.00	0.00	0.00	0.00	0.71	6150.69
7	2.66	0.00	0.00	0.00	1.79	6151.56
8	3.84	0.00	0.00	0.00	2.86	6152.54
9	6.29	0.00	0.00	0.00	1.61	6157.22
10	16.42	0.00	0.00	0.00	1.61	6172.03
11	9.22	0.00	0.00	0.00	1.61	6179.64
12	0.00	0.00	0.00	0.00	1.61	6178.03
13	0.00	0.00	0.00	0.00	1.61	6176.42
14	0.00	0.00	0.00	0.00	1.61	6174.81
15	0.00	0.00	0.00	0.00	1.61	6173.20
16	0.00	0.00	0.00	0.00	1.61	6171.59
17	0.00	0.00	0.00	0.00	1.61	6169.98
18	0.00	0.00	0.00	0.00	1.61	6168.37
19	0.00	0.00	0.00	0.00	1.61	6166.76
20	0.00	0.00	0.00	0.00	1.61	6165.15
21	0.00	0.00	0.00	0.00	1.61	6163.54
22	0.00	0.00	0.00	0.00	1.60	6161.94
23	0.00	0.00	0.00	0.00	1.60	6160.34
24	0.00	0.00	0.00	0.00	1.60	6158.74
25	0.00	0.00	0.00	0.00	1.60	6157.14
26	0.00	0.00	0.00	0.00	1.60	6155.54
27	0.00	0.00	0.00	0.00	1.60	6153.94
28	0.00	0.00	0.00	0.00	1.60	6152.34
29	0.00	0.00	0.00	0.00	1.60	6150.74
30	0.00	0.00	0.00	0.00	1.59	6149.15
	38.43	0.00	0.00	0.00	53.21	

OffsetAccount-Consumable Kansas Charge

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-ReturnFlow

Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						30.96
1	0.00	0.00	0.00	0.00	0.02	30.94
2	0.00	0.00	0.00	0.00	0.01	30.93
3	0.00	0.00	0.00	0.00	0.01	30.92
4	0.00	0.00	0.00	0.00	0.01	30.91
5	0.00	0.00	0.00	0.00	0.01	30.90
6	0.00	0.00	0.00	0.00	0.00	30.90
7	0.00	0.00	0.00	0.00	0.01	30.89
8	0.00	0.00	0.00	0.00	0.01	30.88
9	0.00	0.00	0.00	0.00	0.01	30.87
10	0.00	0.00	0.00	0.00	0.01	30.86
11	0.00	0.00	0.00	0.00	0.01	30.85
12	0.00	0.00	0.00	0.00	0.01	30.84
13	0.00	0.00	0.00	0.00	0.01	30.83
14	0.00	0.00	0.00	0.00	0.01	30.82
15	0.00	0.00	0.00	0.00	0.01	30.81
16	0.00	0.00	0.00	0.00	0.01	30.80
17	0.00	0.00	0.00	0.00	0.01	30.79
18	0.00	0.00	0.00	0.00	0.01	30.78
19	0.00	0.00	0.00	0.00	0.01	30.77
20	0.00	0.00	0.00	0.00	0.01	30.76
21	0.00	0.00	0.00	0.00	0.01	30.75
22	0.00	0.00	0.00	0.00	0.01	30.74
23	0.00	0.00	0.00	0.00	0.01	30.73
24	0.00	0.00	0.00	0.00	0.01	30.72
25	0.00	0.00	0.00	0.00	0.01	30.71
26	0.00	0.00	0.00	0.00	0.01	30.70
27	0.00	0.00	0.00	0.00	0.01	30.69
28	0.00	0.00	0.00	0.00	0.01	30.68
29	0.00	0.00	0.00	0.00	0.01	30.67
30	0.00	0.00	0.00	0.00	0.01	30.66
	0.00	0.00	0.00	0.00	0.30	

OffsetAccount-ReturnFlow

RF Transit Loss

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						30.96
1	0.00	0.00	0.00	0.00	0.02	30.94
2	0.00	0.00	0.00	0.00	0.01	30.93
3	0.00	0.00	0.00	0.00	0.01	30.92
4	0.00	0.00	0.00	0.00	0.01	30.91
5	0.00	0.00	0.00	0.00	0.01	30.90
6	0.00	0.00	0.00	0.00	0.00	30.90
7	0.00	0.00	0.00	0.00	0.01	30.89
8	0.00	0.00	0.00	0.00	0.01	30.88
9	0.00	0.00	0.00	0.00	0.01	30.87
10	0.00	0.00	0.00	0.00	0.01	30.86
11	0.00	0.00	0.00	0.00	0.01	30.85
12	0.00	0.00	0.00	0.00	0.01	30.84
13	0.00	0.00	0.00	0.00	0.01	30.83
14	0.00	0.00	0.00	0.00	0.01	30.82
15	0.00	0.00	0.00	0.00	0.01	30.81
16	0.00	0.00	0.00	0.00	0.01	30.80
17	0.00	0.00	0.00	0.00	0.01	30.79
18	0.00	0.00	0.00	0.00	0.01	30.78
19	0.00	0.00	0.00	0.00	0.01	30.77
20	0.00	0.00	0.00	0.00	0.01	30.76
21	0.00	0.00	0.00	0.00	0.01	30.75
22	0.00	0.00	0.00	0.00	0.01	30.74
23	0.00	0.00	0.00	0.00	0.01	30.73
24	0.00	0.00	0.00	0.00	0.01	30.72
25	0.00	0.00	0.00	0.00	0.01	30.71
26	0.00	0.00	0.00	0.00	0.01	30.70
27	0.00	0.00	0.00	0.00	0.01	30.69
28	0.00	0.00	0.00	0.00	0.01	30.68
29	0.00	0.00	0.00	0.00	0.01	30.67
30	0.00	0.00	0.00	0.00	0.01	30.66
	0.00	0.00	0.00	0.00	0.30	

OffsetAccount-ReturnFlow

Return Flow

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-ReturnFlow

Keesee Winter

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

COLORADO
Division of Water Resources
Department of Natural Resources

Water Division 2 – Main Office
310 E. Abriendo Ave, Suite B
Pueblo, CO 81004

March 15, 2019

Mr. David Barfield
Kansas Chief Engineer
Kansas Board of Agriculture
901 S. Kansas Avenue, 2nd Floor
Topeka, KS 66612-1283

Ms. Stephanie Gonzales
Recording Secretary
Arkansas River Compact Administration
P.O. Box 1106
Lamar, CO 81052

RE: Monthly Report of Colorado Pumping and Offset Account Operations for December 2018

Dear Mr. Barfield and Ms. Gonzales:

The purpose of this letter is to provide the monthly report required by paragraph 12 of the **Resolution Concerning an Offset Account in John Martin Reservoir for Colorado Pumping as Amended April 30, 1998** ("Resolution"). This letter reports the monthly pumping in excess of Colorado's pre-Compact entitlement, Colorado's monthly accounting of Compact compliance, and the status of water delivered to the Offset Account, all during the month of December, 2018.

Table 1 shows the amount of pumping during the month of December 2018 by irrigation wells pumping from the Valley Fill Aquifer and surficial aquifers along the Arkansas River between Pueblo and the Stateline, as well as the corresponding wellhead depletions, by user group. The wellhead depletions were computed using the presumptive stream depletions in Rule 4.2 of the **AMENDED RULES AND REGULATIONS GOVERNING THE DIVERSION AND USE OF TRIBUTARY GROUND WATER IN THE ARKANSAS RIVER BASIN, COLORADO** ("Rules") approved in Case No. 95CW211.

Table 2 shows the wellhead depletions due to pumping by irrigation wells in the user groups below John Martin Reservoir that are in excess of the pre-Compact entitlements.

Since the replacement of depletions caused by pumping approved pursuant to the Rules that occurred above John Martin Reservoir has been detailed in the accounting previously provided to Kansas, the accounting in this report shows only remaining depletions caused by irrigation pumping in excess of the pre-Compact entitlements for those river reaches where no replacements were made to replace out-of-priority depletions to senior surface water rights in Colorado.

These stream depletions were computed using the wellhead depletions shown in Table 2 with the Ground Water Accounting Model. Please note that in Reaches 11, 12, 13, 14, 15, 16 replacements to senior surface water rights in Colorado did not replace any the stream depletions caused by pumping affecting those reaches since there was not a call by a Colorado surface right in those reaches during December.

The remaining depletions shown in Table 3 are the estimated stream depletions caused by irrigation pumping in excess of the pre-Compact entitlements remaining after replacements were made to senior surface water rights in Colorado. Table 3 also shows the estimated depletions to usable Stateline flow, which were

calculated using the assumptions in paragraph 5.B of the Resolution, and the replacements to Stateline flows, which were made during the month.

As of December 31, 2018, a total of 7598.13 acre-feet was stored in the Offset Account. The accounting spreadsheet for the Offset Account for the month of December is attached at Enclosure 1.

Please contact me if you have any questions or require additional information.

Sincerely,

Rachel A. Zancanella, P.E.
Assistant Division Engineer
Colorado Division of Water Resources

cc: Kevin Salter
Dale Book
Dan Steuer

Randy Hendrix
Charlie DiDomenico
Bill Tyner

TABLE 1
Pumping By Rule 3 Irrigation Wells
December 2018

USER NO.	DITCH NAME	AF PUMPED	WELLHEAD DEPL
1	BESSEMER	6.44	4.93
2	BOOTH ORCHARD	0.05	0.02
3	EXCELSIOR	0.02	0.01
4	COLLIER	0	0
5	COLORADO	6.75	3.38
6	ROCKY FORD HIGHLINE	0	0
7	OXFORD	0.04	0.01
8	OTERO	0	0
9	CATLIN	0.04	0.01
10	FORT LYON US	0.15	0.06
11	ROCKY FORD	0	0
12	HOLBROOK	0	0
13	LAS ANIMAS CONSOLIDATED	0	0
14	BALDWIN-STUBBS	44.46	44.46
15	FORT BENT	0	0
17	AMITY	0.5	0.19
18	LAMAR/MANVEL	0	0
19	HYDE	0	0
20	FORT LYON DS	15.26	5.49
21	XY GRAHAM	0	0
22	BUFFALO	0.06	0.02
24	STATELINE SOLE SOURCE	0	0
601	LAWMA A.P.D.	0	0
602	LAWMA A.P.D.	0	0
	Totals	73.77	58.58

TABLE 2
Wellhead Depletions from Irrigation Wells below John Martin Reservoir (Acre-Feet)
(Reduced By Pre-Compact Entitlements)
December 2018

USER NUMBER

10	15	16	17	18	19	20	21	22	23	24	Total
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.65	3.65

TABLE 3
Remaining Depletions to Usable Stateline Flow (Acre-Feet)
December 2018

REACH NUMBER		11	12	13	14	15	16	17	18	21	Sum	
Balance Forward from Previous Month		0	0	0	0	0	0	0	0	0	0	
Remaining Depletion		7.64	14.58	58.61	64.14	40.23	112.22	239.23	389.22	20.67	946.54	
Depletion to Usable SL Flow		2.67	5.09	20.46	22.39	14.04	39.16	83.49	135.84	7.21	330.34	
Replacements												Credit to Next Month
FRY-ARK Return Flows	0	0.00	0.00	0.00	0.00						0.00	0
PBWW TM & AG Return Flows	0	0.00	0.00	0.00	0.00						0.00	0
CO Beef - Lamar Center Farm	0				0						0.00	0
Lamar Center Farm	0	0	0	0	0	0	0				0.00	0
Lamar Granada East/West								0.00			0.00	0.00
Ft Bent Ditch Shares	0				0						0.00	0
Stubbs Direct Flow	0	0	0	0	0	0	0	0	0		0.00	0
XY Direct Flow	0					0					0.00	0
Manvel Direct Flow	0					0					0.00	0
Offset Account Release Credit*	8246.98									330.34	330.34	8246.98
Offset Account Transit Loss	0	0.00			0.00			0.00			0.00	0
Offset Account Water	0	0									0.00	0
Total Replacements	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	330.34	330.34	
Depletions Carried Forward	0	0	0	0	0	0	0	0	0	0	0.00	

* Note that a 629.08 acre-foot depletion balance was brought to zero using Offset Account Release credits in December 2018.

Enclosure 1

John Martin Offset Accounting for December 2018

OffsetAccount-Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						7652.08
1	0.00	0.00	0.00	0.00	1.77	7650.31
2	0.00	0.00	0.00	0.00	1.76	7648.55
3	0.00	0.00	0.00	0.00	1.76	7646.79
4	0.00	0.00	0.00	0.00	1.76	7645.03
5	0.00	0.00	0.00	0.00	1.76	7643.27
6	0.00	0.00	0.00	0.00	1.76	7641.51
7	0.00	0.00	0.00	0.00	1.76	7639.75
8	0.00	0.00	0.00	0.00	1.76	7637.99
9	0.00	0.00	0.00	0.00	1.76	7636.23
10	0.00	0.00	0.00	0.00	1.76	7634.47
11	0.00	0.00	0.00	0.00	1.75	7632.72
12	0.00	0.00	0.00	0.00	1.75	7630.97
13	0.00	0.00	0.00	0.00	1.75	7629.22
14	0.00	0.00	0.00	0.00	1.75	7627.47
15	0.00	0.00	0.00	0.00	1.74	7625.73
16	0.00	0.00	0.00	0.00	1.74	7623.99
17	0.00	0.00	0.00	0.00	1.74	7622.25
18	0.00	0.00	0.00	0.00	1.73	7620.52
19	0.00	0.00	0.00	0.00	1.73	7618.79
20	0.00	0.00	0.00	0.00	1.73	7617.06
21	0.00	0.00	0.00	0.00	1.73	7615.33
22	0.00	0.00	0.00	0.00	1.73	7613.60
23	0.00	0.00	0.00	0.00	1.73	7611.87
24	0.00	0.00	0.00	0.00	1.72	7610.15
25	0.00	0.00	0.00	0.00	1.72	7608.43
26	0.00	0.00	0.00	0.00	1.72	7606.71
27	0.00	0.00	0.00	0.00	1.72	7604.99
28	0.00	0.00	0.00	0.00	1.72	7603.27
29	0.00	0.00	0.00	0.00	1.72	7601.55
30	0.00	0.00	0.00	0.00	1.71	7599.84
31	0.00	0.00	0.00	0.00	1.71	7598.13
	0.00	0.00	0.00	0.00	53.95	

OffsetAccount-Consumable Upstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						1472.27
1	0.00	0.00	0.00	0.00	0.34	1471.93
2	0.00	0.00	0.00	0.00	0.34	1471.59
3	0.00	0.00	0.00	0.00	0.34	1471.25
4	0.00	0.00	0.00	0.00	0.34	1470.91
5	0.00	0.00	0.00	0.00	0.34	1470.57
6	0.00	0.00	0.00	0.00	0.34	1470.23
7	0.00	0.00	0.00	0.00	0.34	1469.89
8	0.00	0.00	0.00	0.00	0.34	1469.55
9	0.00	0.00	0.00	0.00	0.34	1469.21
10	0.00	0.00	0.00	0.00	0.34	1468.87
11	0.00	0.00	0.00	0.00	0.34	1468.53
12	0.00	0.00	0.00	0.00	0.34	1468.19
13	0.00	0.00	0.00	0.00	0.34	1467.85
14	0.00	0.00	0.00	0.00	0.34	1467.51
15	0.00	0.00	0.00	0.00	0.33	1467.18
16	0.00	0.00	0.00	0.00	0.33	1466.85
17	0.00	0.00	0.00	0.00	0.33	1466.52
18	0.00	0.00	0.00	0.00	0.33	1466.19
19	0.00	0.00	0.00	0.00	0.33	1465.86
20	0.00	0.00	0.00	0.00	0.33	1465.53
21	0.00	0.00	0.00	0.00	0.33	1465.20
22	0.00	0.00	0.00	0.00	0.33	1464.87
23	0.00	0.00	0.00	0.00	0.33	1464.54
24	0.00	0.00	0.00	0.00	0.33	1464.21
25	0.00	0.00	0.00	0.00	0.33	1463.88
26	0.00	0.00	0.00	0.00	0.33	1463.55
27	0.00	0.00	0.00	0.00	0.33	1463.22
28	0.00	0.00	0.00	0.00	0.33	1462.89
29	0.00	0.00	0.00	0.00	0.33	1462.56
30	0.00	0.00	0.00	0.00	0.33	1462.23
31	0.00	0.00	0.00	0.00	0.33	1461.90
	0.00	0.00	0.00	0.00	10.37	

OffsetAccount-Consumable Kansas

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-Consumable Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						7621.42
1	0.00	0.00	0.00	0.00	1.76	7619.66
2	0.00	0.00	0.00	0.00	1.75	7617.91
3	0.00	0.00	0.00	0.00	1.75	7616.16
4	0.00	0.00	0.00	0.00	1.75	7614.41
5	0.00	0.00	0.00	0.00	1.75	7612.66
6	0.00	0.00	0.00	0.00	1.75	7610.91
7	0.00	0.00	0.00	0.00	1.75	7609.16
8	0.00	0.00	0.00	0.00	1.75	7607.41
9	0.00	0.00	0.00	0.00	1.75	7605.66
10	0.00	0.00	0.00	0.00	1.75	7603.91
11	0.00	0.00	0.00	0.00	1.74	7602.17
12	0.00	0.00	0.00	0.00	1.74	7600.43
13	0.00	0.00	0.00	0.00	1.74	7598.69
14	0.00	0.00	0.00	0.00	1.74	7596.95
15	0.00	0.00	0.00	0.00	1.73	7595.22
16	0.00	0.00	0.00	0.00	1.73	7593.49
17	0.00	0.00	0.00	0.00	1.73	7591.76
18	0.00	0.00	0.00	0.00	1.72	7590.04
19	0.00	0.00	0.00	0.00	1.72	7588.32
20	0.00	0.00	0.00	0.00	1.72	7586.60
21	0.00	0.00	0.00	0.00	1.72	7584.88
22	0.00	0.00	0.00	0.00	1.72	7583.16
23	0.00	0.00	0.00	0.00	1.72	7581.44
24	0.00	0.00	0.00	0.00	1.71	7579.73
25	0.00	0.00	0.00	0.00	1.71	7578.02
26	0.00	0.00	0.00	0.00	1.71	7576.31
27	0.00	0.00	0.00	0.00	1.71	7574.60
28	0.00	0.00	0.00	0.00	1.71	7572.89
29	0.00	0.00	0.00	0.00	1.71	7571.18
30	0.00	0.00	0.00	0.00	1.70	7569.48
31	0.00	0.00	0.00	0.00	1.70	7567.78
	0.00	0.00	0.00	0.00	53.64	

OffsetAccount-Consumable Downstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						6149.15
1	0.00	0.00	0.00	0.00	1.42	6147.73
2	0.00	0.00	0.00	0.00	1.41	6146.32
3	0.00	0.00	0.00	0.00	1.41	6144.91
4	0.00	0.00	0.00	0.00	1.41	6143.50
5	0.00	0.00	0.00	0.00	1.41	6142.09
6	0.00	0.00	0.00	0.00	1.41	6140.68
7	0.00	0.00	0.00	0.00	1.41	6139.27
8	0.00	0.00	0.00	0.00	1.41	6137.86
9	0.00	0.00	0.00	0.00	1.41	6136.45
10	0.00	0.00	0.00	0.00	1.41	6135.04
11	0.00	0.00	0.00	0.00	1.40	6133.64
12	0.00	0.00	0.00	0.00	1.40	6132.24
13	0.00	0.00	0.00	0.00	1.40	6130.84
14	0.00	0.00	0.00	0.00	1.40	6129.44
15	0.00	0.00	0.00	0.00	1.40	6128.04
16	0.00	0.00	0.00	0.00	1.40	6126.64
17	0.00	0.00	0.00	0.00	1.40	6125.24
18	0.00	0.00	0.00	0.00	1.39	6123.85
19	0.00	0.00	0.00	0.00	1.39	6122.46
20	0.00	0.00	0.00	0.00	1.39	6121.07
21	0.00	0.00	0.00	0.00	1.39	6119.68
22	0.00	0.00	0.00	0.00	1.39	6118.29
23	0.00	0.00	0.00	0.00	1.39	6116.90
24	0.00	0.00	0.00	0.00	1.38	6115.52
25	0.00	0.00	0.00	0.00	1.38	6114.14
26	0.00	0.00	0.00	0.00	1.38	6112.76
27	0.00	0.00	0.00	0.00	1.38	6111.38
28	0.00	0.00	0.00	0.00	1.38	6110.00
29	0.00	0.00	0.00	0.00	1.38	6108.62
30	0.00	0.00	0.00	0.00	1.37	6107.25
31	0.00	0.00	0.00	0.00	1.37	6105.88
	0.00	0.00	0.00	0.00	43.27	

OffsetAccount-Consumable Kansas Charge

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-ReturnFlow

Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						30.66
1	0.00	0.00	0.00	0.00	0.01	30.65
2	0.00	0.00	0.00	0.00	0.01	30.64
3	0.00	0.00	0.00	0.00	0.01	30.63
4	0.00	0.00	0.00	0.00	0.01	30.62
5	0.00	0.00	0.00	0.00	0.01	30.61
6	0.00	0.00	0.00	0.00	0.01	30.60
7	0.00	0.00	0.00	0.00	0.01	30.59
8	0.00	0.00	0.00	0.00	0.01	30.58
9	0.00	0.00	0.00	0.00	0.01	30.57
10	0.00	0.00	0.00	0.00	0.01	30.56
11	0.00	0.00	0.00	0.00	0.01	30.55
12	0.00	0.00	0.00	0.00	0.01	30.54
13	0.00	0.00	0.00	0.00	0.01	30.53
14	0.00	0.00	0.00	0.00	0.01	30.52
15	0.00	0.00	0.00	0.00	0.01	30.51
16	0.00	0.00	0.00	0.00	0.01	30.50
17	0.00	0.00	0.00	0.00	0.01	30.49
18	0.00	0.00	0.00	0.00	0.01	30.48
19	0.00	0.00	0.00	0.00	0.01	30.47
20	0.00	0.00	0.00	0.00	0.01	30.46
21	0.00	0.00	0.00	0.00	0.01	30.45
22	0.00	0.00	0.00	0.00	0.01	30.44
23	0.00	0.00	0.00	0.00	0.01	30.43
24	0.00	0.00	0.00	0.00	0.01	30.42
25	0.00	0.00	0.00	0.00	0.01	30.41
26	0.00	0.00	0.00	0.00	0.01	30.40
27	0.00	0.00	0.00	0.00	0.01	30.39
28	0.00	0.00	0.00	0.00	0.01	30.38
29	0.00	0.00	0.00	0.00	0.01	30.37
30	0.00	0.00	0.00	0.00	0.01	30.36
31	0.00	0.00	0.00	0.00	0.01	30.35
	0.00	0.00	0.00	0.00	0.31	

OffsetAccount-ReturnFlow

RF Transit Loss

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						30.66
1	0.00	0.00	0.00	0.00	0.01	30.65
2	0.00	0.00	0.00	0.00	0.01	30.64
3	0.00	0.00	0.00	0.00	0.01	30.63
4	0.00	0.00	0.00	0.00	0.01	30.62
5	0.00	0.00	0.00	0.00	0.01	30.61
6	0.00	0.00	0.00	0.00	0.01	30.60
7	0.00	0.00	0.00	0.00	0.01	30.59
8	0.00	0.00	0.00	0.00	0.01	30.58
9	0.00	0.00	0.00	0.00	0.01	30.57
10	0.00	0.00	0.00	0.00	0.01	30.56
11	0.00	0.00	0.00	0.00	0.01	30.55
12	0.00	0.00	0.00	0.00	0.01	30.54
13	0.00	0.00	0.00	0.00	0.01	30.53
14	0.00	0.00	0.00	0.00	0.01	30.52
15	0.00	0.00	0.00	0.00	0.01	30.51
16	0.00	0.00	0.00	0.00	0.01	30.50
17	0.00	0.00	0.00	0.00	0.01	30.49
18	0.00	0.00	0.00	0.00	0.01	30.48
19	0.00	0.00	0.00	0.00	0.01	30.47
20	0.00	0.00	0.00	0.00	0.01	30.46
21	0.00	0.00	0.00	0.00	0.01	30.45
22	0.00	0.00	0.00	0.00	0.01	30.44
23	0.00	0.00	0.00	0.00	0.01	30.43
24	0.00	0.00	0.00	0.00	0.01	30.42
25	0.00	0.00	0.00	0.00	0.01	30.41
26	0.00	0.00	0.00	0.00	0.01	30.40
27	0.00	0.00	0.00	0.00	0.01	30.39
28	0.00	0.00	0.00	0.00	0.01	30.38
29	0.00	0.00	0.00	0.00	0.01	30.37
30	0.00	0.00	0.00	0.00	0.01	30.36
31	0.00	0.00	0.00	0.00	0.01	30.35
	0.00	0.00	0.00	0.00	0.31	

OffsetAccount-ReturnFlow

Return Flow

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-ReturnFlow

Keesee Winter

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

COLORADO
Division of Water Resources
Department of Natural Resources

Water Division 2 – Main Office
310 E. Abriendo Ave, Suite B
Pueblo, CO 81004

March 15, 2019

Mr. David Barfield
Kansas Chief Engineer
Kansas Board of Agriculture
901 S. Kansas Avenue, 2nd Floor
Topeka, KS 66612-1283

Ms. Stephanie Gonzales
Recording Secretary
Arkansas River Compact Administration
P.O. Box 1106
Lamar, CO 81052

RE: Monthly Report of Colorado Pumping and Offset Account Operations for January 2019

Dear Mr. Barfield and Ms. Gonzales:

The purpose of this letter is to provide the monthly report required by paragraph 12 of the **Resolution Concerning an Offset Account in John Martin Reservoir for Colorado Pumping as Amended April 30, 1998** ("Resolution"). This letter reports the monthly pumping in excess of Colorado's pre-Compact entitlement, Colorado's monthly accounting of Compact compliance, and the status of water delivered to the Offset Account, all during the month of January, 2019.

Table 1 shows the amount of pumping during the month of January 2019 by irrigation wells pumping from the Valley Fill Aquifer and surficial aquifers along the Arkansas River between Pueblo and the Stateline, as well as the corresponding wellhead depletions, by user group. The wellhead depletions were computed using the presumptive stream depletions in Rule 4.2 of the **AMENDED RULES AND REGULATIONS GOVERNING THE DIVERSION AND USE OF TRIBUTARY GROUND WATER IN THE ARKANSAS RIVER BASIN, COLORADO** ("Rules") approved in Case No. 95CW211.

Table 2 shows the wellhead depletions due to pumping by irrigation wells in the user groups below John Martin Reservoir that are in excess of the pre-Compact entitlements.

Since the replacement of depletions caused by pumping approved pursuant to the Rules that occurred above John Martin Reservoir has been detailed in the accounting previously provided to Kansas, the accounting in this report shows only remaining depletions caused by irrigation pumping in excess of the pre-Compact entitlements for those river reaches where no replacements were made to replace out-of-priority depletions to senior surface water rights in Colorado.

These stream depletions were computed using the wellhead depletions shown in Table 2 with the Ground Water Accounting Model. Please note that in Reaches 11, 12, 13, 14, 15, 16 replacements to senior surface water rights in Colorado did not replace any the stream depletions caused by pumping affecting those reaches since there was not a call by a Colorado surface right in those reaches during January.

The remaining depletions shown in Table 3 are the estimated stream depletions caused by irrigation pumping in excess of the pre-Compact entitlements remaining after replacements were made to senior surface water rights in Colorado. Table 3 also shows the estimated depletions to usable Stateline flow, which were

calculated using the assumptions in paragraph 5.B of the Resolution, and the replacements to Stateline flows, which were made during the month.

On January 26, 2019, Colorado Springs Utilities (CSU) began a delivery of 27 cfs into the Offset account. The 321.96 acre-feet delivered during the month of January was credited to the Consumable Kansas Storage Charge account.

As of January 31, 2019, a total of 7874.16 acre-feet was stored in the Offset Account. The accounting spreadsheet for the Offset Account for the month of January is attached at Enclosure 1.

Please contact me if you have any questions or require additional information.

Sincerely,

Rachel A. Zancanella, P.E.
Assistant Division Engineer
Colorado Division of Water Resources

cc: Kevin Salter
Dale Book
Dan Steuer
Randy Hendrix
Charlie DiDomenico
Bill Tyner

TABLE 1
Pumping By Rule 3 Irrigation Wells
January 2019

USER NO.	DITCH NAME	AF PUMPED	WELLHEAD DEPL
1	BESSEMER	4.08	3.08
2	BOOTH ORCHARD	0.22	0.11
3	EXCELSIOR	0.02	0.01
4	COLLIER	0	0
5	COLORADO	0	0
6	ROCKY FORD HIGHLINE	0	0
7	OXFORD	0.08	0.02
8	OTERO	7.22	2.6
9	CATLIN	0.04	0.01
10	FORT LYON US	0.11	0.04
11	ROCKY FORD	0	0
12	HOLBROOK	0	0
13	LAS ANIMAS CONSOLIDATED	0	0
14	BALDWIN-STUBBS	54.52	53.77
15	FORT BENT	0	0
17	AMITY	0.51	0.24
18	LAMAR/MANVEL	0.02	0.02
19	HYDE	0	0
20	FORT LYON DS	49.14	17.69
21	XY GRAHAM	0	0
22	BUFFALO	0.06	0.02
24	STATELINE SOLE SOURCE	0	0
601	LAWMA A.P.D.	0	0
602	LAWMA A.P.D.	0	0
	Totals	116.02	77.61

TABLE 2
Wellhead Depletions from Irrigation Wells below John Martin Reservoir (Acre-Feet)
(Reduced By Pre-Compact Entitlements)
January 2019

USER NUMBER

10	15	16	17	18	19	20	21	22	23	24	Total
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TABLE 3
Remaining Depletions to Usable Stateline Flow (Acre-Feet)
January 2019

REACH NUMBER		11	12	13	14	15	16	17	18	21	Sum	
Balance Forward from Previous Month		0	0	0	0	0	0	0	0	0	0	
Remaining Depletion		7.11	13.57	54.81	57.22	36.28	97.18	206.26	389.22	18.69	880.34	
Depletion to Usable SL Flow		2.48	4.74	19.13	19.97	12.66	33.91	71.99	135.84	6.53	307.24	
Replacements												Credit to Next Month
FRY-ARK Return Flows	0	0.00	0.00	0.00	0.00						0.00	0
PBWW TM & AG Return Flows	0	0.00	0.00	0.00	0.00						0.00	0
CO Beef - Lamar Center Farm	0				0						0.00	0
Lamar Center Farm	0	0	0	0	0	0	0				0.00	0
Lamar Granada East/West								0.00			0.00	0.00
Ft Bent Ditch Shares	0	0	0	0	0	0	0	0	0		0.00	0
Stubbs Direct Flow	0	0	0	0	0	0	0	0	0		0.00	0
XY Direct Flow	0	0	0	0	0	0	0	0	0		0.00	0
Manvel Direct Flow	0	0	0	0	0	0	0	0	0		0.00	0
Offset Account Release Credit*	8246.98									307.24	307.24	7390.63
Offset Account Transit Loss	0	0.00			0.00			0.00			0.00	0
Offset Account Water	0	0									0.00	0
Total Replacements	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	307.24	307.24	
Depletions Carried Forward	0	0	0	0	0	0	0	0	0	0	0.00	

* Note that a 549.11 acre-foot depletion balance was brought to zero using Offset Account Release credits in January 2019.

Enclosure 1

John Martin Offset Accounting for January 2019

OffsetAccount-Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						7598.13
1	0.00	0.00	0.00	0.00	0.17	7597.96
2	0.00	0.00	0.00	0.00	0.17	7597.79
3	0.00	0.00	0.00	0.00	0.51	7597.28
4	0.00	0.00	0.00	0.00	1.36	7595.92
5	0.00	0.00	0.00	0.00	1.36	7594.56
6	0.00	0.00	0.00	0.00	1.36	7593.20
7	0.00	0.00	0.00	0.00	1.53	7591.67
8	0.00	0.00	0.00	0.00	1.61	7590.06
9	0.00	0.00	0.00	0.00	1.45	7588.61
10	0.00	0.00	0.00	0.00	1.44	7587.17
11	0.00	0.00	0.00	0.00	1.61	7585.56
12	0.00	0.00	0.00	0.00	1.60	7583.96
13	0.00	0.00	0.00	0.00	1.60	7582.36
14	0.00	0.00	0.00	0.00	1.60	7580.76
15	0.00	0.00	0.00	0.00	1.60	7579.16
16	0.00	0.00	0.00	0.00	1.60	7577.56
17	0.00	0.00	0.00	0.00	1.59	7575.97
18	0.00	0.00	0.00	0.00	1.67	7574.30
19	0.00	0.00	0.00	0.00	1.67	7572.63
20	0.00	0.00	0.00	0.00	1.67	7570.96
21	0.00	0.00	0.00	0.00	1.66	7569.30
22	0.00	0.00	0.00	0.00	1.66	7567.64
23	0.00	0.00	0.00	0.00	1.66	7565.98
24	0.00	0.00	0.00	0.00	1.66	7564.32
25	0.00	0.00	0.00	0.00	1.66	7562.66
26	40.24	0.00	0.00	0.00	1.65	7601.25
27	58.26	0.00	0.00	0.00	1.66	7657.85
28	56.88	0.00	0.00	0.00	1.58	7713.15
29	56.72	0.00	0.00	0.00	1.59	7768.28
30	55.62	0.00	0.00	0.00	1.51	7822.39
31	54.24	0.00	0.00	0.00	2.47	7874.16
	321.96	0.00	0.00	0.00	45.93	

OffsetAccount-Consumable Upstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						1461.90
1	0.00	0.00	0.00	0.00	0.03	1461.87
2	0.00	0.00	0.00	0.00	0.03	1461.84
3	0.00	0.00	0.00	0.00	0.10	1461.74
4	0.00	0.00	0.00	0.00	0.26	1461.48
5	0.00	0.00	0.00	0.00	0.26	1461.22
6	0.00	0.00	0.00	0.00	0.26	1460.96
7	0.00	0.00	0.00	0.00	0.29	1460.67
8	0.00	0.00	0.00	0.00	0.31	1460.36
9	0.00	0.00	0.00	0.00	0.28	1460.08
10	0.00	0.00	0.00	0.00	0.28	1459.80
11	0.00	0.00	0.00	0.00	0.31	1459.49
12	0.00	0.00	0.00	0.00	0.31	1459.18
13	0.00	0.00	0.00	0.00	0.31	1458.87
14	0.00	0.00	0.00	0.00	0.31	1458.56
15	0.00	0.00	0.00	0.00	0.31	1458.25
16	0.00	0.00	0.00	0.00	0.31	1457.94
17	0.00	0.00	0.00	0.00	0.31	1457.63
18	0.00	0.00	0.00	0.00	0.32	1457.31
19	0.00	0.00	0.00	0.00	0.32	1456.99
20	0.00	0.00	0.00	0.00	0.32	1456.67
21	0.00	0.00	0.00	0.00	0.32	1456.35
22	0.00	0.00	0.00	0.00	0.32	1456.03
23	0.00	0.00	0.00	0.00	0.32	1455.71
24	0.00	0.00	0.00	0.00	0.32	1455.39
25	0.00	0.00	0.00	0.00	0.32	1455.07
26	0.00	0.00	0.00	0.00	0.32	1454.75
27	0.00	0.00	0.00	0.00	0.32	1454.43
28	0.00	0.00	0.00	0.00	0.30	1454.13
29	0.00	0.00	0.00	0.00	0.30	1453.83
30	0.00	0.00	0.00	0.00	0.28	1453.55
31	0.00	0.00	0.00	0.00	0.46	1453.09
	0.00	0.00	0.00	0.00	8.81	

OffsetAccount-Consumable Kansas

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-Consumable Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						7567.78
1	0.00	0.00	0.00	0.00	0.17	7567.61
2	0.00	0.00	0.00	0.00	0.17	7567.44
3	0.00	0.00	0.00	0.00	0.51	7566.93
4	0.00	0.00	0.00	0.00	1.35	7565.58
5	0.00	0.00	0.00	0.00	1.35	7564.23
6	0.00	0.00	0.00	0.00	1.35	7562.88
7	0.00	0.00	0.00	0.00	1.52	7561.36
8	0.00	0.00	0.00	0.00	1.60	7559.76
9	0.00	0.00	0.00	0.00	1.44	7558.32
10	0.00	0.00	0.00	0.00	1.43	7556.89
11	0.00	0.00	0.00	0.00	1.60	7555.29
12	0.00	0.00	0.00	0.00	1.59	7553.70
13	0.00	0.00	0.00	0.00	1.59	7552.11
14	0.00	0.00	0.00	0.00	1.59	7550.52
15	0.00	0.00	0.00	0.00	1.59	7548.93
16	0.00	0.00	0.00	0.00	1.59	7547.34
17	0.00	0.00	0.00	0.00	1.58	7545.76
18	0.00	0.00	0.00	0.00	1.66	7544.10
19	0.00	0.00	0.00	0.00	1.66	7542.44
20	0.00	0.00	0.00	0.00	1.66	7540.78
21	0.00	0.00	0.00	0.00	1.65	7539.13
22	0.00	0.00	0.00	0.00	1.65	7537.48
23	0.00	0.00	0.00	0.00	1.65	7535.83
24	0.00	0.00	0.00	0.00	1.65	7534.18
25	0.00	0.00	0.00	0.00	1.65	7532.53
26	40.24	0.00	0.00	0.00	1.64	7571.13
27	58.26	0.00	0.00	0.00	1.65	7627.74
28	56.88	0.00	0.00	0.00	1.57	7683.05
29	56.72	0.00	0.00	0.00	1.58	7738.19
30	55.62	0.00	0.00	0.00	1.50	7792.31
31	54.24	0.00	0.00	0.00	2.46	7844.09
	321.96	0.00	0.00	0.00	45.65	

OffsetAccount-Consumable Downstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						6105.88
1	0.00	0.00	0.00	0.00	0.14	6105.74
2	0.00	0.00	0.00	0.00	0.14	6105.60
3	0.00	0.00	0.00	0.00	0.41	6105.19
4	0.00	0.00	0.00	0.00	1.09	6104.10
5	0.00	0.00	0.00	0.00	1.09	6103.01
6	0.00	0.00	0.00	0.00	1.09	6101.92
7	0.00	0.00	0.00	0.00	1.23	6100.69
8	0.00	0.00	0.00	0.00	1.29	6099.40
9	0.00	0.00	0.00	0.00	1.16	6098.24
10	0.00	0.00	0.00	0.00	1.15	6097.09
11	0.00	0.00	0.00	0.00	1.29	6095.80
12	0.00	0.00	0.00	0.00	1.28	6094.52
13	0.00	0.00	0.00	0.00	1.28	6093.24
14	0.00	0.00	0.00	0.00	1.28	6091.96
15	0.00	0.00	0.00	0.00	1.28	6090.68
16	0.00	0.00	0.00	0.00	1.28	6089.40
17	0.00	0.00	0.00	0.00	1.27	6088.13
18	0.00	0.00	0.00	0.00	1.34	6086.79
19	0.00	0.00	0.00	0.00	1.34	6085.45
20	0.00	0.00	0.00	0.00	1.34	6084.11
21	0.00	0.00	0.00	0.00	1.33	6082.78
22	0.00	0.00	0.00	0.00	1.33	6081.45
23	0.00	0.00	0.00	0.00	1.33	6080.12
24	0.00	0.00	0.00	0.00	1.33	6078.79
25	0.00	0.00	0.00	0.00	1.33	6077.46
26	0.00	0.00	0.00	0.00	1.32	6076.14
27	0.00	0.00	0.00	0.00	1.32	6074.82
28	0.00	0.00	0.00	0.00	1.25	6073.57
29	0.00	0.00	0.00	0.00	1.25	6072.32
30	0.00	0.00	0.00	0.00	1.18	6071.14
31	0.00	0.00	0.00	0.00	1.92	6069.22
	0.00	0.00	0.00	0.00	36.66	

OffsetAccount-Consumable Kansas Charge

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	40.24	0.00	0.00	0.00	0.00	40.24
27	58.26	0.00	0.00	0.00	0.01	98.49
28	56.88	0.00	0.00	0.00	0.02	155.35
29	56.72	0.00	0.00	0.00	0.03	212.04
30	55.62	0.00	0.00	0.00	0.04	267.62
31	54.24	0.00	0.00	0.00	0.08	321.78
	321.96	0.00	0.00	0.00	0.18	

OffsetAccount-ReturnFlow

Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						30.35
1	0.00	0.00	0.00	0.00	0.00	30.35
2	0.00	0.00	0.00	0.00	0.00	30.35
3	0.00	0.00	0.00	0.00	0.00	30.35
4	0.00	0.00	0.00	0.00	0.01	30.34
5	0.00	0.00	0.00	0.00	0.01	30.33
6	0.00	0.00	0.00	0.00	0.01	30.32
7	0.00	0.00	0.00	0.00	0.01	30.31
8	0.00	0.00	0.00	0.00	0.01	30.30
9	0.00	0.00	0.00	0.00	0.01	30.29
10	0.00	0.00	0.00	0.00	0.01	30.28
11	0.00	0.00	0.00	0.00	0.01	30.27
12	0.00	0.00	0.00	0.00	0.01	30.26
13	0.00	0.00	0.00	0.00	0.01	30.25
14	0.00	0.00	0.00	0.00	0.01	30.24
15	0.00	0.00	0.00	0.00	0.01	30.23
16	0.00	0.00	0.00	0.00	0.01	30.22
17	0.00	0.00	0.00	0.00	0.01	30.21
18	0.00	0.00	0.00	0.00	0.01	30.20
19	0.00	0.00	0.00	0.00	0.01	30.19
20	0.00	0.00	0.00	0.00	0.01	30.18
21	0.00	0.00	0.00	0.00	0.01	30.17
22	0.00	0.00	0.00	0.00	0.01	30.16
23	0.00	0.00	0.00	0.00	0.01	30.15
24	0.00	0.00	0.00	0.00	0.01	30.14
25	0.00	0.00	0.00	0.00	0.01	30.13
26	0.00	0.00	0.00	0.00	0.01	30.12
27	0.00	0.00	0.00	0.00	0.01	30.11
28	0.00	0.00	0.00	0.00	0.01	30.10
29	0.00	0.00	0.00	0.00	0.01	30.09
30	0.00	0.00	0.00	0.00	0.01	30.08
31	0.00	0.00	0.00	0.00	0.01	30.07
	0.00	0.00	0.00	0.00	0.28	

OffsetAccount-ReturnFlow

RF Transit Loss

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						30.35
1	0.00	0.00	0.00	0.00	0.00	30.35
2	0.00	0.00	0.00	0.00	0.00	30.35
3	0.00	0.00	0.00	0.00	0.00	30.35
4	0.00	0.00	0.00	0.00	0.01	30.34
5	0.00	0.00	0.00	0.00	0.01	30.33
6	0.00	0.00	0.00	0.00	0.01	30.32
7	0.00	0.00	0.00	0.00	0.01	30.31
8	0.00	0.00	0.00	0.00	0.01	30.30
9	0.00	0.00	0.00	0.00	0.01	30.29
10	0.00	0.00	0.00	0.00	0.01	30.28
11	0.00	0.00	0.00	0.00	0.01	30.27
12	0.00	0.00	0.00	0.00	0.01	30.26
13	0.00	0.00	0.00	0.00	0.01	30.25
14	0.00	0.00	0.00	0.00	0.01	30.24
15	0.00	0.00	0.00	0.00	0.01	30.23
16	0.00	0.00	0.00	0.00	0.01	30.22
17	0.00	0.00	0.00	0.00	0.01	30.21
18	0.00	0.00	0.00	0.00	0.01	30.20
19	0.00	0.00	0.00	0.00	0.01	30.19
20	0.00	0.00	0.00	0.00	0.01	30.18
21	0.00	0.00	0.00	0.00	0.01	30.17
22	0.00	0.00	0.00	0.00	0.01	30.16
23	0.00	0.00	0.00	0.00	0.01	30.15
24	0.00	0.00	0.00	0.00	0.01	30.14
25	0.00	0.00	0.00	0.00	0.01	30.13
26	0.00	0.00	0.00	0.00	0.01	30.12
27	0.00	0.00	0.00	0.00	0.01	30.11
28	0.00	0.00	0.00	0.00	0.01	30.10
29	0.00	0.00	0.00	0.00	0.01	30.09
30	0.00	0.00	0.00	0.00	0.01	30.08
31	0.00	0.00	0.00	0.00	0.01	30.07
	0.00	0.00	0.00	0.00	0.28	

OffsetAccount-ReturnFlow

Return Flow

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

COLORADO
Division of Water Resources
Department of Natural Resources

Water Division 2 – Main Office
310 E. Abriendo Ave, Suite B
Pueblo, CO 81004

June 28, 2019

Mr. David Barfield
Kansas Chief Engineer
Kansas Board of Agriculture
901 S. Kansas Avenue, 2nd Floor
Topeka, KS 66612-1283

Ms. Stephanie Gonzales
Recording Secretary
Arkansas River Compact Administration
P.O. Box 1106
Lamar, CO 81052

RE: Monthly Report of Colorado Pumping and Offset Account Operations for February 2019

Dear Mr. Barfield and Ms. Gonzales:

The purpose of this letter is to provide the monthly report required by paragraph 12 of the **Resolution Concerning an Offset Account in John Martin Reservoir for Colorado Pumping as Amended April 30, 1998** ("Resolution"). This letter reports the monthly pumping in excess of Colorado's pre-Compact entitlement, Colorado's monthly accounting of Compact compliance, and the status of water delivered to the Offset Account, all during the month of February, 2019.

Table 1 shows the amount of pumping during the month of February 2019 by irrigation wells pumping from the Valley Fill Aquifer and surficial aquifers along the Arkansas River between Pueblo and the Stateline, as well as the corresponding wellhead depletions, by user group. The wellhead depletions were computed using the presumptive stream depletions in Rule 4.2 of the **AMENDED RULES AND REGULATIONS GOVERNING THE DIVERSION AND USE OF TRIBUTARY GROUND WATER IN THE ARKANSAS RIVER BASIN, COLORADO** ("Rules") approved in Case No. 95CW211.

Table 2 shows the wellhead depletions due to pumping by irrigation wells in the user groups below John Martin Reservoir that are in excess of the pre-Compact entitlements.

Since the replacement of depletions caused by pumping approved pursuant to the Rules that occurred above John Martin Reservoir has been detailed in the accounting previously provided to Kansas, the accounting in this report shows only remaining depletions caused by irrigation pumping in excess of the pre-Compact entitlements for those river reaches where no replacements were made to replace out-of-priority depletions to senior surface water rights in Colorado.

These stream depletions were computed using the wellhead depletions shown in Table 2 with the Ground Water Accounting Model. Please note that in Reaches 11, 12, 13, 14, 15, 16 replacements to senior surface water rights in Colorado did not replace any the stream depletions caused by pumping affecting those reaches since there was not a call by a Colorado surface right in those reaches during February.

The remaining depletions shown in Table 3 are the estimated stream depletions caused by irrigation pumping in excess of the pre-Compact entitlements remaining after replacements were made to senior surface water rights in Colorado. Table 3 also shows the estimated depletions to usable Stateline flow, which were

calculated using the assumptions in paragraph 5.B of the Resolution, and the replacements to Stateline flows, which were made during the month.

On January 26, 2019, Colorado Springs Utilities (CSU) began a delivery of 27 cfs into the Offset account. In the month of February, 178.04 acre-feet was credited to the Consumable Kansas Storage Charge account, 102.17 acre-feet were credited to the Consumable Upstream Subaccount, and 1169.89 acre-feet were credited to the Consumable Downstream Subaccount. The deliveries to the Offset Account in the month of February totaled 1450.10 acre-feet.

As of February 28, 2019, a total of 9241.75 acre-feet was stored in the Offset Account. The accounting spreadsheet for the Offset Account for the month of February is attached at Enclosure 1.

Please contact me if you have any questions or require additional information.

Sincerely,

Rachel A. Zancanella, P.E.
Assistant Division Engineer
Colorado Division of Water Resources

cc: Kevin Salter
Dale Book
Dan Steuer
Randy Hendrix
Eunhye Kim
Bill Tyner

TABLE 1
Pumping By Rule 3 Irrigation Wells
February 2019

USER NO.	DITCH NAME	AF PUMPED	WELLHEAD DEPL
1	BESSEMER	4.75	2.74
2	BOOTH ORCHARD	0	0
3	EXCELSIOR	0.01	0
4	COLLIER	0	0
5	COLORADO	0	0
6	ROCKY FORD HIGHLINE	0	0
7	OXFORD	0.05	0.01
8	OTERO	0	0
9	CATLIN	0	0
10	FORT LYON US	12.05	4.34
11	ROCKY FORD	0.59	0.3
12	HOLBROOK	0	0
13	LAS ANIMAS CONSOLIDATED	16.9	8.45
14	BALDWIN-STUBBS	57.79	57.15
15	FORT BENT	0	0
17	AMITY	0	0
18	LAMAR/MANVEL	0.95	0.73
19	HYDE	0	0
20	FORT LYON DS	72.83	26.22
21	XY GRAHAM	0	0
22	BUFFALO	0.06	0.02
24	STATELINE SOLE SOURCE	71.56	53.67
601	LAWMA A.P.D.	0	0
602	LAWMA A.P.D.	0	0
	Totals	237.54	153.63

TABLE 2
Wellhead Depletions from Irrigation Wells below John Martin Reservoir (Acre-Feet)
(Reduced By Pre-Compact Entitlements)
February 2019

USER NUMBER

10	15	16	17	18	19	20	21	22	23	24	Total
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TABLE 3
Remaining Depletions to Usable Stateline Flow (Acre-Feet)
February 2019

REACH NUMBER		11	12	13	14	15	16	17	18	21	Sum	
Balance Forward from Previous Month		0	0	0	0	0	0	0	0	0	0	
Remaining Depletion		6.64	12.66	51.42	52.04	32.88	86.10	182.04	274.63	16.49	714.90	
Depletion to Usable SL Flow		2.32	4.42	17.95	18.16	11.47	30.05	63.53	95.84	5.76	249.50	
Replacements												Credit to Next Month
FRY-ARK Return Flows	0	0.00	0.00	0.00	0.00						0.00	0
PBWW TM & AG Return Flows	0	0.00	0.00	0.00	0.00						0.00	0
CO Beef - Lamar Center Farm	0				0						0.00	0
Lamar Center Farm	0	0	0	0	0	0	0				0.00	0
Lamar Granada East/West								0.00			0.00	0.00
Ft Bent Ditch Shares	0	0	0	0	0	0	0	0	0		0.00	0
Stubbs Direct Flow	0	0	0	0	0	0	0	0	0		0.00	0
XY Direct Flow	0	0	0	0	0	0	0	0	0		0.00	0
Manvel Direct Flow	0	0	0	0	0	0	0	0	0		0.00	0
Offset Account Release Credit**	13820.65									249.5	249.50	13065.58
Offset Account Transit Loss	0	0.00			0.00			0.00			0.00	0
Offset Account Water	0	0									0.00	0
Total Replacements	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	249.50	249.50	
Depletions Carried Forward	0	0	0	0	0	0	0	0	0	0	0.00	

* Note that a 505.57 acre-foot depletion balance was brought to zero using Offset Account Release credits in February 2019.

* Note that values were adjusted for the agreed upon 10 year stateline credit.

Enclosure 1

John Martin Offset Accounting for February 2019

OffsetAccount-Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						7874.16
1	53.57	0.00	0.00	0.00	2.49	7925.24
2	53.45	0.00	0.00	0.00	2.63	7976.06
3	52.56	0.00	0.00	0.00	2.79	8025.83
4	51.52	0.00	0.00	0.00	2.77	8074.58
5	50.91	0.00	0.00	0.00	2.82	8122.67
6	50.88	0.00	0.00	0.00	2.83	8170.72
7	51.29	0.00	0.00	0.00	2.83	8219.18
8	52.00	0.00	0.00	0.00	2.85	8268.33
9	52.68	0.00	0.00	0.00	2.86	8318.15
10	52.69	0.00	0.00	0.00	2.87	8367.97
11	52.02	0.00	0.00	0.00	2.89	8417.10
12	51.36	0.00	0.00	0.00	2.90	8465.56
13	50.92	0.00	0.00	0.00	2.91	8513.57
14	50.97	0.00	0.00	0.00	2.93	8561.61
15	51.21	0.00	0.00	0.00	2.94	8609.88
16	51.37	0.00	0.00	0.00	2.96	8658.29
17	50.80	0.00	0.00	0.00	2.96	8706.13
18	50.50	0.00	0.00	0.00	2.98	8753.65
19	51.45	0.00	0.00	0.00	2.84	8802.26
20	52.20	0.00	0.00	0.00	2.85	8851.61
21	52.42	0.00	0.00	0.00	3.02	8901.01
22	52.95	0.00	0.00	0.00	3.04	8950.92
23	52.16	0.00	0.00	0.00	3.05	9000.03
24	51.61	0.00	0.00	0.00	2.90	9048.74
25	51.18	0.00	0.00	0.00	2.92	9097.00
26	50.95	0.00	0.00	0.00	2.94	9145.01
27	51.38	0.00	0.00	0.00	2.95	9193.44
28	53.10	0.00	0.00	0.00	4.79	9241.75
	1450.10	0.00	0.00	0.00	82.51	

OffsetAccount-Consumable Upstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						1453.09
1	0.00	0.00	0.00	0.00	0.46	1452.63
2	0.00	0.00	0.00	0.00	0.48	1452.15
3	0.00	0.00	0.00	0.00	0.51	1451.64
4	0.00	0.00	0.00	0.00	0.50	1451.14
5	0.00	0.00	0.00	0.00	0.51	1450.63
6	0.00	0.00	0.00	0.00	0.50	1450.13
7	0.00	0.00	0.00	0.00	0.50	1449.63
8	0.00	0.00	0.00	0.00	0.50	1449.13
9	0.00	0.00	0.00	0.00	0.50	1448.63
10	0.00	0.00	0.00	0.00	0.50	1448.13
11	0.00	0.00	0.00	0.00	0.50	1447.63
12	0.00	0.00	0.00	0.00	0.50	1447.13
13	0.00	0.00	0.00	0.00	0.50	1446.63
14	0.00	0.00	0.00	0.00	0.50	1446.13
15	0.00	0.00	0.00	0.00	0.50	1445.63
16	51.37	0.00	0.00	0.00	0.50	1496.50
17	50.80	0.00	0.00	0.00	0.51	1546.79
18	0.00	0.00	0.00	0.00	0.53	1546.26
19	0.00	0.00	0.00	0.00	0.50	1545.76
20	0.00	0.00	0.00	0.00	0.50	1545.26
21	0.00	0.00	0.00	0.00	0.53	1544.73
22	0.00	0.00	0.00	0.00	0.53	1544.20
23	0.00	0.00	0.00	0.00	0.53	1543.67
24	0.00	0.00	0.00	0.00	0.50	1543.17
25	0.00	0.00	0.00	0.00	0.50	1542.67
26	0.00	0.00	0.00	0.00	0.50	1542.17
27	0.00	0.00	0.00	0.00	0.50	1541.67
28	0.00	0.00	0.00	0.00	0.80	1540.87
	102.17	0.00	0.00	0.00	14.39	

OffsetAccount-Consumable Kansas

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-Consumable Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						7844.09
1	53.57	0.00	0.00	0.00	2.48	7895.18
2	53.45	0.00	0.00	0.00	2.62	7946.01
3	52.56	0.00	0.00	0.00	2.78	7995.79
4	51.52	0.00	0.00	0.00	2.76	8044.55
5	50.91	0.00	0.00	0.00	2.81	8092.65
6	50.88	0.00	0.00	0.00	2.82	8140.71
7	51.29	0.00	0.00	0.00	2.82	8189.18
8	52.00	0.00	0.00	0.00	2.84	8238.34
9	52.68	0.00	0.00	0.00	2.85	8288.17
10	52.69	0.00	0.00	0.00	2.86	8338.00
11	52.02	0.00	0.00	0.00	2.88	8387.14
12	51.36	0.00	0.00	0.00	2.89	8435.61
13	50.92	0.00	0.00	0.00	2.90	8483.63
14	50.97	0.00	0.00	0.00	2.92	8531.68
15	51.21	0.00	0.00	0.00	2.93	8579.96
16	51.37	0.00	0.00	0.00	2.95	8628.38
17	50.80	0.00	0.00	0.00	2.95	8676.23
18	50.50	0.00	0.00	0.00	2.97	8723.76
19	51.45	0.00	0.00	0.00	2.83	8772.38
20	52.20	0.00	0.00	0.00	2.84	8821.74
21	52.42	0.00	0.00	0.00	3.01	8871.15
22	52.95	0.00	0.00	0.00	3.03	8921.07
23	52.16	0.00	0.00	0.00	3.04	8970.19
24	51.61	0.00	0.00	0.00	2.89	9018.91
25	51.18	0.00	0.00	0.00	2.91	9067.18
26	50.95	0.00	0.00	0.00	2.93	9115.20
27	51.38	0.00	0.00	0.00	2.94	9163.64
28	53.10	0.00	0.00	0.00	4.77	9211.97
	1450.10	0.00	0.00	0.00	82.22	

OffsetAccount-Consumable Downstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						6069.22
1	0.00	0.00	0.00	0.00	1.92	6067.30
2	0.00	0.00	0.00	0.00	2.02	6065.28
3	0.00	0.00	0.00	0.00	2.12	6063.16
4	33.06	0.00	0.00	0.00	2.09	6094.13
5	50.91	0.00	0.00	0.00	2.13	6142.91
6	50.88	0.00	0.00	0.00	2.13	6191.66
7	51.29	0.00	0.00	0.00	2.15	6240.80
8	52.00	0.00	0.00	0.00	2.17	6290.63
9	52.68	0.00	0.00	0.00	2.18	6341.13
10	52.69	0.00	0.00	0.00	2.19	6391.63
11	52.02	0.00	0.00	0.00	2.21	6441.44
12	51.36	0.00	0.00	0.00	2.22	6490.58
13	50.92	0.00	0.00	0.00	2.23	6539.27
14	50.97	0.00	0.00	0.00	2.25	6587.99
15	51.21	0.00	0.00	0.00	2.26	6636.94
16	0.00	0.00	0.00	0.00	2.28	6634.66
17	0.00	0.00	0.00	0.00	2.27	6632.39
18	50.50	0.00	0.00	0.00	2.27	6680.62
19	51.45	0.00	0.00	0.00	2.17	6729.90
20	52.20	0.00	0.00	0.00	2.18	6779.92
21	52.42	0.00	0.00	0.00	2.31	6830.03
22	52.95	0.00	0.00	0.00	2.33	6880.65
23	52.16	0.00	0.00	0.00	2.34	6930.47
24	51.61	0.00	0.00	0.00	2.23	6979.85
25	51.18	0.00	0.00	0.00	2.25	7028.78
26	50.95	0.00	0.00	0.00	2.27	7077.46
27	51.38	0.00	0.00	0.00	2.28	7126.56
28	53.10	0.00	0.00	0.00	3.71	7175.95
	1169.89	0.00	0.00	0.00	63.16	

OffsetAccount-Consumable Kansas Charge

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						321.78
1	53.57	0.00	0.00	0.00	0.10	375.25
2	53.45	0.00	0.00	0.00	0.12	428.58
3	52.56	0.00	0.00	0.00	0.15	480.99
4	18.46	0.00	0.00	0.00	0.17	499.28
5	0.00	0.00	0.00	0.00	0.17	499.11
6	0.00	0.00	0.00	0.00	0.19	498.92
7	0.00	0.00	0.00	0.00	0.17	498.75
8	0.00	0.00	0.00	0.00	0.17	498.58
9	0.00	0.00	0.00	0.00	0.17	498.41
10	0.00	0.00	0.00	0.00	0.17	498.24
11	0.00	0.00	0.00	0.00	0.17	498.07
12	0.00	0.00	0.00	0.00	0.17	497.90
13	0.00	0.00	0.00	0.00	0.17	497.73
14	0.00	0.00	0.00	0.00	0.17	497.56
15	0.00	0.00	0.00	0.00	0.17	497.39
16	0.00	0.00	0.00	0.00	0.17	497.22
17	0.00	0.00	0.00	0.00	0.17	497.05
18	0.00	0.00	0.00	0.00	0.17	496.88
19	0.00	0.00	0.00	0.00	0.16	496.72
20	0.00	0.00	0.00	0.00	0.16	496.56
21	0.00	0.00	0.00	0.00	0.17	496.39
22	0.00	0.00	0.00	0.00	0.17	496.22
23	0.00	0.00	0.00	0.00	0.17	496.05
24	0.00	0.00	0.00	0.00	0.16	495.89
25	0.00	0.00	0.00	0.00	0.16	495.73
26	0.00	0.00	0.00	0.00	0.16	495.57
27	0.00	0.00	0.00	0.00	0.16	495.41
28	0.00	0.00	0.00	0.00	0.26	495.15
	178.04	0.00	0.00	0.00	4.67	

OffsetAccount-ReturnFlow

Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						30.07
1	0.00	0.00	0.00	0.00	0.01	30.06
2	0.00	0.00	0.00	0.00	0.01	30.05
3	0.00	0.00	0.00	0.00	0.01	30.04
4	0.00	0.00	0.00	0.00	0.01	30.03
5	0.00	0.00	0.00	0.00	0.01	30.02
6	0.00	0.00	0.00	0.00	0.01	30.01
7	0.00	0.00	0.00	0.00	0.01	30.00
8	0.00	0.00	0.00	0.00	0.01	29.99
9	0.00	0.00	0.00	0.00	0.01	29.98
10	0.00	0.00	0.00	0.00	0.01	29.97
11	0.00	0.00	0.00	0.00	0.01	29.96
12	0.00	0.00	0.00	0.00	0.01	29.95
13	0.00	0.00	0.00	0.00	0.01	29.94
14	0.00	0.00	0.00	0.00	0.01	29.93
15	0.00	0.00	0.00	0.00	0.01	29.92
16	0.00	0.00	0.00	0.00	0.01	29.91
17	0.00	0.00	0.00	0.00	0.01	29.90
18	0.00	0.00	0.00	0.00	0.01	29.89
19	0.00	0.00	0.00	0.00	0.01	29.88
20	0.00	0.00	0.00	0.00	0.01	29.87
21	0.00	0.00	0.00	0.00	0.01	29.86
22	0.00	0.00	0.00	0.00	0.01	29.85
23	0.00	0.00	0.00	0.00	0.01	29.84
24	0.00	0.00	0.00	0.00	0.01	29.83
25	0.00	0.00	0.00	0.00	0.01	29.82
26	0.00	0.00	0.00	0.00	0.01	29.81
27	0.00	0.00	0.00	0.00	0.01	29.80
28	0.00	0.00	0.00	0.00	0.02	29.78
	0.00	0.00	0.00	0.00	0.29	

OffsetAccount-ReturnFlow

RF Transit Loss

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						30.07
1	0.00	0.00	0.00	0.00	0.01	30.06
2	0.00	0.00	0.00	0.00	0.01	30.05
3	0.00	0.00	0.00	0.00	0.01	30.04
4	0.00	0.00	0.00	0.00	0.01	30.03
5	0.00	0.00	0.00	0.00	0.01	30.02
6	0.00	0.00	0.00	0.00	0.01	30.01
7	0.00	0.00	0.00	0.00	0.01	30.00
8	0.00	0.00	0.00	0.00	0.01	29.99
9	0.00	0.00	0.00	0.00	0.01	29.98
10	0.00	0.00	0.00	0.00	0.01	29.97
11	0.00	0.00	0.00	0.00	0.01	29.96
12	0.00	0.00	0.00	0.00	0.01	29.95
13	0.00	0.00	0.00	0.00	0.01	29.94
14	0.00	0.00	0.00	0.00	0.01	29.93
15	0.00	0.00	0.00	0.00	0.01	29.92
16	0.00	0.00	0.00	0.00	0.01	29.91
17	0.00	0.00	0.00	0.00	0.01	29.90
18	0.00	0.00	0.00	0.00	0.01	29.89
19	0.00	0.00	0.00	0.00	0.01	29.88
20	0.00	0.00	0.00	0.00	0.01	29.87
21	0.00	0.00	0.00	0.00	0.01	29.86
22	0.00	0.00	0.00	0.00	0.01	29.85
23	0.00	0.00	0.00	0.00	0.01	29.84
24	0.00	0.00	0.00	0.00	0.01	29.83
25	0.00	0.00	0.00	0.00	0.01	29.82
26	0.00	0.00	0.00	0.00	0.01	29.81
27	0.00	0.00	0.00	0.00	0.01	29.80
28	0.00	0.00	0.00	0.00	0.02	29.78
	0.00	0.00	0.00	0.00	0.29	

OffsetAccount-ReturnFlow

Return Flow

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

COLORADO
Division of Water Resources
Department of Natural Resources

Water Division 2 – Main Office
310 E. Abriendo Ave, Suite B
Pueblo, CO 81004

June 28, 2019

Mr. David Barfield
Kansas Chief Engineer
Kansas Board of Agriculture
901 S. Kansas Avenue, 2nd Floor
Topeka, KS 66612-1283

Ms. Stephanie Gonzales
Recording Secretary
Arkansas River Compact Administration
P.O. Box 1106
Lamar, CO 81052

RE: Monthly Report of Colorado Pumping and Offset Account Operations for March 2019

Dear Mr. Barfield and Ms. Gonzales:

The purpose of this letter is to provide the monthly report required by paragraph 12 of the **Resolution Concerning an Offset Account in John Martin Reservoir for Colorado Pumping as Amended April 30, 1998** ("Resolution"). This letter reports the monthly pumping in excess of Colorado's pre-Compact entitlement, Colorado's monthly accounting of Compact compliance, and the status of water delivered to the Offset Account, all during the month of March, 2019.

Table 1 shows the amount of pumping during the month of March 2019 by irrigation wells pumping from the Valley Fill Aquifer and surficial aquifers along the Arkansas River between Pueblo and the Stateline, as well as the corresponding wellhead depletions, by user group. The wellhead depletions were computed using the presumptive stream depletions in Rule 4.2 of the **AMENDED RULES AND REGULATIONS GOVERNING THE DIVERSION AND USE OF TRIBUTARY GROUND WATER IN THE ARKANSAS RIVER BASIN, COLORADO** ("Rules") approved in Case No. 95CW211.

Table 2 shows the wellhead depletions due to pumping by irrigation wells in the user groups below John Martin Reservoir that are in excess of the pre-Compact entitlements.

Since the replacement of depletions caused by pumping approved pursuant to the Rules that occurred above John Martin Reservoir has been detailed in the accounting previously provided to Kansas, the accounting in this report shows only remaining depletions caused by irrigation pumping in excess of the pre-Compact entitlements for those river reaches where no replacements were made to replace out-of-priority depletions to senior surface water rights in Colorado.

These stream depletions were computed using the wellhead depletions shown in Table 2 with the Ground Water Accounting Model. Please note that in Reaches 11, 12, 13, 14, 15, 16 replacements to senior surface water rights in Colorado did not replace any the stream depletions caused by pumping affecting those reaches since there was not a call by a Colorado surface right in those reaches during March.

The remaining depletions shown in Table 3 are the estimated stream depletions caused by irrigation pumping in excess of the pre-Compact entitlements remaining after replacements were made to senior surface water rights in Colorado. Table 3 also shows the estimated depletions to usable Stateline flow, which were

calculated using the assumptions in paragraph 5.B of the Resolution, and the replacements to Stateline flows, which were made during the month.

The Fort Lyon Canal delivered 67.62 acre-feet and Colorado Springs Utilities (CSU) delivered 967.61 acre-feet to the Consumable Downstream Subaccount. The deliveries to the Offset Account in the month of February totaled 1035.23 acre-feet. In addition, Lower Arkansas Water Management Association (LAWMA) transferred 11.94 acre-feet into the Kansas Charge Consumable sub-account, 0.09 acre-feet into the Return Flow Transit Loss sub-account, and 1.71 acre-feet into the Return Flow account. Colorado Water Protective and Development Association (CWPDA) transferred 93.07 acre-feet out of the Colorado Upstream Consumable sub-account into Conservation Storage to make replacements for winter return flows for the Catlin Canal.

As of March 31, 2019, a total of 10,054.97 acre-feet was stored in the Offset Account. The accounting spreadsheet for the Offset Account for the month of March is attached at Enclosure 1.

Please contact me if you have any questions or require additional information.

Sincerely,

Rachel A. Zancanella, P.E.
Assistant Division Engineer
Colorado Division of Water Resources

cc: Kevin Salter
Dale Book
Dan Steuer
Randy Hendrix
Eunhye Kim
Bill Tyner

TABLE 1
Pumping By Rule 3 Irrigation Wells
March 2019

USER NO.	DITCH NAME	AF PUMPED	WELLHEAD DEPL
1	BESSEMER	199.1	98.52
2	BOOTH ORCHARD	0.24	0.13
3	EXCELSIOR	40.26	20.15
4	COLLIER	0	0
5	COLORADO	123.8	68.66
6	ROCKY FORD HIGHLINE	41.97	15.43
7	OXFORD	61.98	22.31
8	OTERO	7.28	2.95
9	CATLIN	111.25	48.85
10	FORT LYON US	209.35	106.3
11	ROCKY FORD	19.61	9.81
12	HOLBROOK	49.3	26.46
13	LAS ANIMAS CONSOLIDATED	160.63	80.47
14	BALDWIN-STUBBS	46.56	46.43
15	FORT BENT	28.91	21.38
17	AMITY	415.85	223.4
18	LAMAR/MANVEL	11.95	8.96
19	HYDE	0	0
20	FORT LYON DS	237.78	106.52
21	XY GRAHAM	0	0
22	BUFFALO	0.06	0.02
24	STATELINE SOLE SOURCE	97.16	73.09
601	LAWMA A.P.D.	0	0
602	LAWMA A.P.D.	0	0
	Totals	1863.04	979.84

TABLE 2
Wellhead Depletions from Irrigation Wells below John Martin Reservoir (Acre-Feet)
(Reduced By Pre-Compact Entitlements)
March 2019

USER NUMBER

10	15	16	17	18	19	20	21	22	23	24	Total
0.00	0.00	0.00	0.00	0.00	21.38	0.00	223.40	9.77	0.00	106.52	361.07

TABLE 3
Remaining Depletions to Usable Stateline Flow (Acre-Feet)
March 2019

REACH NUMBER		11	12	13	14	15	16	17	18	21	Sum	
Balance Forward from Previous Month		0	0	0	0	0	0	0	0	0	0	
Remaining Depletion		6.19	11.79	48.31	50.43	30.53	83.13	183.01	260.21	14.01	687.59	
Depletion to Usable SL Flow		2.16	4.11	16.86	17.60	10.65	29.01	63.87	90.81	4.89	239.97	
Replacements												Credit to Next Month
FRY-ARK Return Flows	0.00	0.00	0.00	0.00	0.00						0.00	0.00
PBWW TM & AG Return Flows	0.00	0.00	0.00	0.00	0.00						0.00	0.00
CO Beef - Lamar Center Farm	0.00				0.00						0.00	0.00
Lamar Center Farm	0.00	0.00	0.00	0.00	0.00	0.00	0.00				0.00	0.00
Lamar Granada East/West								0.00			0.00	0.00
Ft Bent Ditch Shares	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
Stubbs Direct Flow	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
XY Direct Flow	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
Manvel Direct Flow	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
Offset Account Release Credit*	13065.58									239.97	239.97	12296.98
Offset Account Transit Loss	0.00	0.00			0.00			0.00			0.00	0.00
Offset Account Water	0.00	0.00									0.00	0.00
Total Replacements	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	239.97	239.97	
Depletions Carried Forward	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

* Note that a 528.63 acre-foot depletion balance was brought to zero using Offset Account Release credits in March 2019.

Enclosure 1

John Martin Offset Accounting for March 2019

OffsetAccount-Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						9241.75
1	54.58	0.00	0.00	0.00	4.81	9291.52
2	56.72	0.00	0.00	0.00	4.57	9343.67
3	58.12	0.00	0.00	0.00	0.51	9401.28
4	58.01	0.00	0.00	0.00	0.51	9458.78
5	56.42	0.00	0.00	0.00	0.00	9515.20
6	54.16	0.00	0.00	0.00	0.00	9569.36
7	52.68	0.00	0.00	0.00	2.11	9619.93
8	51.44	0.00	0.00	0.00	3.69	9667.68
9	50.97	0.00	0.00	0.00	4.77	9713.88
10	50.85	0.00	0.00	0.00	5.07	9759.66
11	51.80	0.00	0.00	0.00	5.36	9806.10
12	52.01	0.00	0.00	0.00	5.39	9852.72
13	51.05	0.00	0.00	0.00	5.44	9898.33
14	49.68	0.00	0.00	0.00	5.44	9942.57
15	48.78	0.00	0.00	0.00	5.46	9985.89
16	48.68	0.00	0.00	0.00	5.50	10029.07
17	51.20	0.00	0.00	0.00	5.52	10074.75
18	52.80	0.00	0.00	0.00	5.55	10122.00
19	17.66	0.00	0.00	0.00	5.51	10134.15
20	0.00	0.00	0.00	0.00	5.56	10128.59
21	0.00	0.00	0.00	0.00	5.56	10123.03
22	0.00	0.00	0.00	0.00	5.55	10117.48
23	7.14	0.00	0.00	0.00	5.53	10119.09
24	14.17	0.00	0.00	0.00	5.52	10127.74
25	7.27	0.00	93.07	0.00	5.52	10036.42
26	0.00	0.00	0.00	0.00	5.46	10030.96
27	0.00	0.00	0.00	0.00	5.46	10025.50
28	9.22	0.00	0.00	0.00	5.45	10029.27
29	15.47	0.00	0.00	0.00	5.44	10039.30
30	10.47	0.00	0.00	0.00	5.43	10044.34
31	3.88	13.74	0.00	0.00	6.99	10054.97
	1035.23	13.74	93.07	0.00	142.68	

OffsetAccount-Consumable Upstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						1540.87
1	0.00	0.00	0.00	0.00	0.80	1540.07
2	0.00	0.00	0.00	0.00	0.76	1539.31
3	0.00	0.00	0.00	0.00	0.08	1539.23
4	0.00	0.00	0.00	0.00	0.08	1539.15
5	0.00	0.00	0.00	0.00	0.00	1539.15
6	0.00	0.00	0.00	0.00	0.00	1539.15
7	0.00	0.00	0.00	0.00	0.34	1538.81
8	0.00	0.00	0.00	0.00	0.59	1538.22
9	0.00	0.00	0.00	0.00	0.76	1537.46
10	0.00	0.00	0.00	0.00	0.80	1536.66
11	0.00	0.00	0.00	0.00	0.84	1535.82
12	0.00	0.00	0.00	0.00	0.84	1534.98
13	0.00	0.00	0.00	0.00	0.85	1534.13
14	0.00	0.00	0.00	0.00	0.84	1533.29
15	0.00	0.00	0.00	0.00	0.84	1532.45
16	0.00	0.00	0.00	0.00	0.84	1531.61
17	0.00	0.00	0.00	0.00	0.84	1530.77
18	0.00	0.00	0.00	0.00	0.84	1529.93
19	0.00	0.00	0.00	0.00	0.83	1529.10
20	0.00	0.00	0.00	0.00	0.84	1528.26
21	0.00	0.00	0.00	0.00	0.84	1527.42
22	0.00	0.00	0.00	0.00	0.84	1526.58
23	0.00	0.00	0.00	0.00	0.83	1525.75
24	0.00	0.00	0.00	0.00	0.83	1524.92
25	0.00	0.00	93.07	0.00	0.83	1431.02
26	0.00	0.00	0.00	0.00	0.78	1430.24
27	0.00	0.00	0.00	0.00	0.78	1429.46
28	0.00	0.00	0.00	0.00	0.78	1428.68
29	0.00	0.00	0.00	0.00	0.77	1427.91
30	0.00	0.00	0.00	0.00	0.77	1427.14
31	0.00	0.00	0.00	0.00	0.99	1426.15
	0.00	0.00	93.07	0.00	21.65	

OffsetAccount-Consumable Kansas

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-Consumable Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						9211.97
1	54.58	0.00	0.00	0.00	4.79	9261.76
2	56.72	0.00	0.00	0.00	4.56	9313.92
3	58.12	0.00	0.00	0.00	0.51	9371.53
4	58.01	0.00	0.00	0.00	0.51	9429.03
5	56.42	0.00	0.00	0.00	0.00	9485.45
6	54.16	0.00	0.00	0.00	0.00	9539.61
7	52.68	0.00	0.00	0.00	2.10	9590.19
8	51.44	0.00	0.00	0.00	3.68	9637.95
9	50.97	0.00	0.00	0.00	4.76	9684.16
10	50.85	0.00	0.00	0.00	5.05	9729.96
11	51.80	0.00	0.00	0.00	5.34	9776.42
12	52.01	0.00	0.00	0.00	5.37	9823.06
13	51.05	0.00	0.00	0.00	5.42	9868.69
14	49.68	0.00	0.00	0.00	5.42	9912.95
15	48.78	0.00	0.00	0.00	5.44	9956.29
16	48.68	0.00	0.00	0.00	5.48	9999.49
17	51.20	0.00	0.00	0.00	5.50	10045.19
18	52.80	0.00	0.00	0.00	5.53	10092.46
19	17.66	0.00	0.00	0.00	5.49	10104.63
20	0.00	0.00	0.00	0.00	5.54	10099.09
21	0.00	0.00	0.00	0.00	5.54	10093.55
22	0.00	0.00	0.00	0.00	5.53	10088.02
23	7.14	0.00	0.00	0.00	5.51	10089.65
24	14.17	0.00	0.00	0.00	5.50	10098.32
25	7.27	0.00	93.07	0.00	5.50	10007.02
26	0.00	0.00	0.00	0.00	5.44	10001.58
27	0.00	0.00	0.00	0.00	5.44	9996.14
28	9.22	0.00	0.00	0.00	5.43	9999.93
29	15.47	0.00	0.00	0.00	5.42	10009.98
30	10.47	0.00	0.00	0.00	5.41	10015.04
31	3.88	11.94	0.00	0.00	6.97	10023.89
	1035.23	11.94	93.07	0.00	142.18	

OffsetAccount-Consumable Downstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						7175.95
1	54.58	0.00	0.00	0.00	3.73	7226.80
2	56.72	0.00	0.00	0.00	3.56	7279.96
3	58.12	0.00	0.00	0.00	0.40	7337.68
4	58.01	0.00	0.00	0.00	0.40	7395.29
5	56.42	0.00	0.00	0.00	0.00	7451.71
6	54.16	0.00	0.00	0.00	0.00	7505.87
7	52.68	0.00	0.00	0.00	1.65	7556.90
8	51.44	0.00	0.00	0.00	2.90	7605.44
9	50.97	0.00	0.00	0.00	3.76	7652.65
10	50.85	0.00	0.00	0.00	3.99	7699.51
11	51.80	0.00	0.00	0.00	4.23	7747.08
12	52.01	0.00	0.00	0.00	4.26	7794.83
13	51.05	0.00	0.00	0.00	4.30	7841.58
14	49.68	0.00	0.00	0.00	4.31	7886.95
15	48.78	0.00	0.00	0.00	4.33	7931.40
16	48.68	0.00	0.00	0.00	4.37	7975.71
17	51.20	0.00	0.00	0.00	4.39	8022.52
18	52.80	0.00	0.00	0.00	4.42	8070.90
19	17.66	0.00	0.00	0.00	4.39	8084.17
20	0.00	0.00	0.00	0.00	4.43	8079.74
21	0.00	0.00	0.00	0.00	4.43	8075.31
22	0.00	0.00	0.00	0.00	4.42	8070.89
23	7.14	0.00	0.00	0.00	4.41	8073.62
24	14.17	0.00	0.00	0.00	4.40	8083.39
25	7.27	0.00	0.00	0.00	4.40	8086.26
26	0.00	0.00	0.00	0.00	4.39	8081.87
27	0.00	0.00	0.00	0.00	4.39	8077.48
28	9.22	0.00	0.00	0.00	4.38	8082.32
29	15.47	0.00	0.00	0.00	4.38	8093.41
30	10.47	0.00	0.00	0.00	4.38	8099.50
31	3.88	0.00	0.00	0.00	5.64	8097.74
	1035.23	0.00	0.00	0.00	113.44	

OffsetAccount-Consumable Kansas Charge

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						495.15
1	0.00	0.00	0.00	0.00	0.26	494.89
2	0.00	0.00	0.00	0.00	0.24	494.65
3	0.00	0.00	0.00	0.00	0.03	494.62
4	0.00	0.00	0.00	0.00	0.03	494.59
5	0.00	0.00	0.00	0.00	0.00	494.59
6	0.00	0.00	0.00	0.00	0.00	494.59
7	0.00	0.00	0.00	0.00	0.11	494.48
8	0.00	0.00	0.00	0.00	0.19	494.29
9	0.00	0.00	0.00	0.00	0.24	494.05
10	0.00	0.00	0.00	0.00	0.26	493.79
11	0.00	0.00	0.00	0.00	0.27	493.52
12	0.00	0.00	0.00	0.00	0.27	493.25
13	0.00	0.00	0.00	0.00	0.27	492.98
14	0.00	0.00	0.00	0.00	0.27	492.71
15	0.00	0.00	0.00	0.00	0.27	492.44
16	0.00	0.00	0.00	0.00	0.27	492.17
17	0.00	0.00	0.00	0.00	0.27	491.90
18	0.00	0.00	0.00	0.00	0.27	491.63
19	0.00	0.00	0.00	0.00	0.27	491.36
20	0.00	0.00	0.00	0.00	0.27	491.09
21	0.00	0.00	0.00	0.00	0.27	490.82
22	0.00	0.00	0.00	0.00	0.27	490.55
23	0.00	0.00	0.00	0.00	0.27	490.28
24	0.00	0.00	0.00	0.00	0.27	490.01
25	0.00	0.00	0.00	0.00	0.27	489.74
26	0.00	0.00	0.00	0.00	0.27	489.47
27	0.00	0.00	0.00	0.00	0.27	489.20
28	0.00	0.00	0.00	0.00	0.27	488.93
29	0.00	0.00	0.00	0.00	0.27	488.66
30	0.00	0.00	0.00	0.00	0.26	488.40
31	0.00	11.94	0.00	0.00	0.34	500.00
	0.00	11.94	0.00	0.00	7.09	

OffsetAccount-ReturnFlow

Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						29.78
1	0.00	0.00	0.00	0.00	0.02	29.76
2	0.00	0.00	0.00	0.00	0.01	29.75
3	0.00	0.00	0.00	0.00	0.00	29.75
4	0.00	0.00	0.00	0.00	0.00	29.75
5	0.00	0.00	0.00	0.00	0.00	29.75
6	0.00	0.00	0.00	0.00	0.00	29.75
7	0.00	0.00	0.00	0.00	0.01	29.74
8	0.00	0.00	0.00	0.00	0.01	29.73
9	0.00	0.00	0.00	0.00	0.01	29.72
10	0.00	0.00	0.00	0.00	0.02	29.70
11	0.00	0.00	0.00	0.00	0.02	29.68
12	0.00	0.00	0.00	0.00	0.02	29.66
13	0.00	0.00	0.00	0.00	0.02	29.64
14	0.00	0.00	0.00	0.00	0.02	29.62
15	0.00	0.00	0.00	0.00	0.02	29.60
16	0.00	0.00	0.00	0.00	0.02	29.58
17	0.00	0.00	0.00	0.00	0.02	29.56
18	0.00	0.00	0.00	0.00	0.02	29.54
19	0.00	0.00	0.00	0.00	0.02	29.52
20	0.00	0.00	0.00	0.00	0.02	29.50
21	0.00	0.00	0.00	0.00	0.02	29.48
22	0.00	0.00	0.00	0.00	0.02	29.46
23	0.00	0.00	0.00	0.00	0.02	29.44
24	0.00	0.00	0.00	0.00	0.02	29.42
25	0.00	0.00	0.00	0.00	0.02	29.40
26	0.00	0.00	0.00	0.00	0.02	29.38
27	0.00	0.00	0.00	0.00	0.02	29.36
28	0.00	0.00	0.00	0.00	0.02	29.34
29	0.00	0.00	0.00	0.00	0.02	29.32
30	0.00	0.00	0.00	0.00	0.02	29.30
31	0.00	1.80	0.00	0.00	0.02	31.08
	0.00	1.80	0.00	0.00	0.50	

OffsetAccount-ReturnFlow

RF Transit Loss

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						29.78
1	0.00	0.00	0.00	0.00	0.02	29.76
2	0.00	0.00	0.00	0.00	0.01	29.75
3	0.00	0.00	0.00	0.00	0.00	29.75
4	0.00	0.00	0.00	0.00	0.00	29.75
5	0.00	0.00	0.00	0.00	0.00	29.75
6	0.00	0.00	0.00	0.00	0.00	29.75
7	0.00	0.00	0.00	0.00	0.01	29.74
8	0.00	0.00	0.00	0.00	0.01	29.73
9	0.00	0.00	0.00	0.00	0.01	29.72
10	0.00	0.00	0.00	0.00	0.02	29.70
11	0.00	0.00	0.00	0.00	0.02	29.68
12	0.00	0.00	0.00	0.00	0.02	29.66
13	0.00	0.00	0.00	0.00	0.02	29.64
14	0.00	0.00	0.00	0.00	0.02	29.62
15	0.00	0.00	0.00	0.00	0.02	29.60
16	0.00	0.00	0.00	0.00	0.02	29.58
17	0.00	0.00	0.00	0.00	0.02	29.56
18	0.00	0.00	0.00	0.00	0.02	29.54
19	0.00	0.00	0.00	0.00	0.02	29.52
20	0.00	0.00	0.00	0.00	0.02	29.50
21	0.00	0.00	0.00	0.00	0.02	29.48
22	0.00	0.00	0.00	0.00	0.02	29.46
23	0.00	0.00	0.00	0.00	0.02	29.44
24	0.00	0.00	0.00	0.00	0.02	29.42
25	0.00	0.00	0.00	0.00	0.02	29.40
26	0.00	0.00	0.00	0.00	0.02	29.38
27	0.00	0.00	0.00	0.00	0.02	29.36
28	0.00	0.00	0.00	0.00	0.02	29.34
29	0.00	0.00	0.00	0.00	0.02	29.32
30	0.00	0.00	0.00	0.00	0.02	29.30
31	0.00	0.09	0.00	0.00	0.02	29.37
	0.00	0.09	0.00	0.00	0.50	

OffsetAccount-ReturnFlow

Return Flow

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	1.71	0.00	0.00	0.00	1.71
	0.00	1.71	0.00	0.00	0.00	

COLORADO
Division of Water Resources
Department of Natural Resources

Water Division 2 – Main Office
310 E. Abriendo Ave, Suite B
Pueblo, CO 81004

June 28, 2019

Mr. David Barfield
Kansas Chief Engineer
Kansas Board of Agriculture
901 S. Kansas Avenue, 2nd Floor
Topeka, KS 66612-1283

Ms. Stephanie Gonzales
Recording Secretary
Arkansas River Compact Administration
P.O. Box 1106
Lamar, CO 81052

RE: Monthly Report of Colorado Pumping and Offset Account Operations for April 2019

Dear Mr. Barfield and Ms. Gonzales:

The purpose of this letter is to provide the monthly report required by paragraph 12 of the **Resolution Concerning an Offset Account in John Martin Reservoir for Colorado Pumping as Amended April 30, 1998** ("Resolution"). This letter reports the monthly pumping in excess of Colorado's pre-Compact entitlement, Colorado's monthly accounting of Compact compliance, and the status of water delivered to the Offset Account, all during the month of April, 2019.

Table 1 shows the amount of pumping during the month of April 2019 by irrigation wells pumping from the Valley Fill Aquifer and surficial aquifers along the Arkansas River between Pueblo and the Stateline, as well as the corresponding wellhead depletions, by user group. The wellhead depletions were computed using the presumptive stream depletions in Rule 4.2 of the **AMENDED RULES AND REGULATIONS GOVERNING THE DIVERSION AND USE OF TRIBUTARY GROUND WATER IN THE ARKANSAS RIVER BASIN, COLORADO** ("Rules") approved in Case No. 95CW211.

Table 2 shows the wellhead depletions due to pumping by irrigation wells in the user groups below John Martin Reservoir that are in excess of the pre-Compact entitlements.

Since the replacement of depletions caused by pumping approved pursuant to the Rules that occurred above John Martin Reservoir has been detailed in the accounting previously provided to Kansas, the accounting in this report shows only remaining depletions caused by irrigation pumping in excess of the pre-Compact entitlements for those river reaches where no replacements were made to replace out-of-priority depletions to senior surface water rights in Colorado.

These stream depletions were computed using the wellhead depletions shown in Table 2 with the Ground Water Accounting Model. Please note that in Reaches 11, 12, 13, 14, 15, 16 replacements to senior surface water rights in Colorado did not replaced 100% of the stream depletions caused by pumping affecting those reaches since there was a call by a Colorado surface right in those reaches during 30 days in April.

The remaining depletions shown in Table 3 are the estimated stream depletions caused by irrigation pumping in excess of the pre-Compact entitlements remaining after replacements were made to senior surface water rights in Colorado. Table 3 also shows the estimated depletions to usable Stateline flow, which were

calculated using the assumptions in paragraph 5.B of the Resolution, and the replacements to Stateline flows, which were made during the month.

The Lower Arkansas Water Management Association (LAWMA) delivered 109.89 acre-feet from Fort Lyon Canal shares, 478.11 acre-feet from Highland Canal shares and 50.20 acre-feet from Keesee ditch shares. During the month of April, 12.61 acre-feet of the water from Fort Lyon Canal shares were delivered to the Upstream Consumable sub-account. The remainder of deliveries, 625.59 acre-feet, were credited to the Colorado Downstream Consumable sub-account. Deliveries to the Offset Account in April 2019 totaled 638.20 acre-feet.

As of April 30, 2019, a total of 10,471.56 acre-feet was stored in the Offset Account. The accounting spreadsheet for the Offset Account for the month of April is attached at Enclosure 1.

Please contact me if you have any questions or require additional information.

Sincerely,

Rachel A. Zancanella, P.E.
Assistant Division Engineer
Colorado Division of Water Resources

cc: Kevin Salter
Dale Book
Dan Steuer
Randy Hendrix
Eunhye Kim
Bill Tyner

TABLE 1
Pumping By Rule 3 Irrigation Wells
April 2019

USER NO.	DITCH NAME	AF PUMPED	WELLHEAD DEPL
1	BESSEMER	703.04	303.34
2	BOOTH ORCHARD	4.92	2.73
3	EXCELSIOR	68.81	34.42
4	COLLIER	0	0
5	COLORADO	230.11	132.92
6	ROCKY FORD HIGHLINE	217.83	79.23
7	OXFORD	277.85	124.22
8	OTERO	33.2	11.99
9	CATLIN	615.67	320.13
10	FORT LYON US	350.26	139.21
11	ROCKY FORD	3.46	1.74
12	HOLBROOK	322.97	165.83
13	LAS ANIMAS CONSOLIDATED	31.73	15.09
14	BALDWIN-STUBBS	50.15	49.37
15	FORT BENT	132.69	84.51
17	AMITY	330.63	180.22
18	LAMAR/MANVEL	199.06	124.53
19	HYDE	61.2	45.13
20	FORT LYON DS	238.17	149.61
21	XY GRAHAM	39.75	30.99
22	BUFFALO	21.8	7.85
24	STATELINE SOLE SOURCE	2797.94	2223.47
601	LAWMA A.P.D.	0	0
602	LAWMA A.P.D.	0	0
	Totals	6731.24	4226.53

TABLE 2
Wellhead Depletions from Irrigation Wells below John Martin Reservoir (Acre-Feet)
(Reduced By Pre-Compact Entitlements)
April 2019

USER NUMBER

10	15	16	17	18	19	20	21	22	23	24	Total
0.00	72.81	0.00	162.43	125.43	45.13	137.32	0.00	7.85	0.00	1325.49	1876.46

TABLE 3
Remaining Depletions to Usable Stateline Flow (Acre-Feet)
April 2019

REACH NUMBER		11	12	13	14	15	16	17	18	21	Sum	
Balance Forward from Previous Month		0	0	0	0	0	0	0	0	0	0	
Remaining Depletion		0.00	0.00	0.00	0.00	0.00	0.00	152.75	582.95	23.36	759.07	
Depletion to Usable SL Flow		0.00	0.00	0.00	0.00	0.00	0.00	125.11	477.44	19.13	621.68	
Replacements												Credit to Next Month
FRY-ARK Return Flows	0	0.00	0.00	0.00	0.00						0.00	0
PBWW TM & AG Return Flows	0	0.00	0.00	0.00	0.00						0.00	0
CO Beef - Lamar Center Farm	0				0						0.00	0
Lamar Center Farm	0				0.00	0					0.00	0
Lamar Granada East/West									83.35		83.35	
Ft Bent Ditch Shares	0				0						0.00	0
Stubbs Direct Flow	0								88		88.00	0
XY Direct Flow	0					0	0				0.00	0
Manvel Direct Flow	0					87.5					87.50	0
Offset Account Release Credit*	12260.83									36.15	36.15	12260.83
Offset Account Transit Loss	0	0.00			0.00			0.00			0.00	0
Offset Account Water	0	0									0.00	0
Total Replacements	0	0.00	0.00	0.00	0.00	87.50	0.00	0.00	171.35	36.15	295.00	
Depletions Carried Forward	0	0	0	0	0	0	0	0	0	0	0.00	

Enclosure 1

John Martin Offset Accounting for April 2019

OffsetAccount-Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						10054.97
1	3.15	0.00	0.00	0.00	0.52	10057.60
2	20.66	0.00	0.00	0.00	8.02	10070.24
3	22.50	0.00	0.00	0.00	3.37	10089.37
4	26.57	0.00	0.00	0.00	7.52	10108.42
5	24.31	0.00	0.00	0.00	7.28	10125.45
6	23.17	0.00	0.00	0.00	7.28	10141.34
7	23.97	0.00	0.00	0.00	7.29	10158.02
8	23.97	0.00	0.00	0.00	6.52	10175.47
9	22.27	0.00	0.00	0.00	6.79	10190.95
10	20.80	0.00	0.00	0.00	7.05	10204.70
11	30.75	0.00	0.00	0.00	7.06	10228.39
12	52.43	0.00	0.00	0.00	7.08	10273.74
13	39.67	0.00	0.00	0.00	7.11	10306.30
14	19.12	0.00	0.00	0.00	7.13	10318.29
15	14.70	0.00	0.00	0.00	5.02	10327.97
16	13.51	0.00	0.00	0.00	7.68	10333.80
17	13.40	0.00	0.00	0.00	10.35	10336.85
18	12.61	0.00	0.00	0.00	7.96	10341.50
19	12.06	0.00	0.00	0.00	9.57	10343.99
20	12.61	0.00	0.00	0.00	9.58	10347.02
21	12.39	0.00	0.00	0.00	9.32	10350.09
22	11.50	0.00	0.00	0.00	6.14	10355.45
23	10.55	0.00	0.00	0.00	1.61	10364.39
24	10.59	0.00	0.00	0.00	7.53	10367.45
25	10.93	0.00	0.00	0.00	11.85	10366.53
26	20.60	0.00	0.00	0.00	10.54	10376.59
27	23.21	0.00	0.00	0.00	10.82	10388.98
28	29.06	0.00	0.00	0.00	10.58	10407.46
29	30.47	0.00	0.00	0.00	8.42	10429.51
30	46.67	0.00	0.00	0.00	4.62	10471.56
	638.20	0.00	0.00	0.00	221.61	

OffsetAccount-Consumable Upstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						1426.15
1	0.00	0.00	0.00	0.00	0.07	1426.08
2	0.00	0.00	0.00	0.00	1.14	1424.94
3	0.00	0.00	0.00	0.00	0.48	1424.46
4	0.00	0.00	0.00	0.00	1.06	1423.40
5	0.00	0.00	0.00	0.00	1.03	1422.37
6	0.00	0.00	0.00	0.00	1.02	1421.35
7	0.00	0.00	0.00	0.00	1.02	1420.33
8	0.00	0.00	0.00	0.00	0.91	1419.42
9	0.00	0.00	0.00	0.00	0.95	1418.47
10	0.00	0.00	0.00	0.00	0.98	1417.49
11	0.00	0.00	0.00	0.00	0.98	1416.51
12	0.00	0.00	0.00	0.00	0.98	1415.53
13	0.00	0.00	0.00	0.00	0.98	1414.55
14	0.00	0.00	0.00	0.00	0.98	1413.57
15	0.00	0.00	0.00	0.00	0.69	1412.88
16	0.00	0.00	0.00	0.00	1.05	1411.83
17	0.00	0.00	0.00	0.00	1.41	1410.42
18	0.00	0.00	0.00	0.00	1.09	1409.33
19	0.00	0.00	0.00	0.00	1.30	1408.03
20	12.61	0.00	0.00	0.00	1.30	1419.34
21	0.00	0.00	0.00	0.00	1.28	1418.06
22	0.00	0.00	0.00	0.00	0.84	1417.22
23	0.00	0.00	0.00	0.00	0.22	1417.00
24	0.00	0.00	0.00	0.00	1.03	1415.97
25	0.00	0.00	0.00	0.00	1.62	1414.35
26	0.00	0.00	0.00	0.00	1.44	1412.91
27	0.00	0.00	0.00	0.00	1.47	1411.44
28	0.00	0.00	0.00	0.00	1.44	1410.00
29	0.00	0.00	0.00	0.00	1.14	1408.86
30	0.00	0.00	0.00	0.00	0.62	1408.24
	12.61	0.00	0.00	0.00	30.52	

OffsetAccount-Consumable Kansas

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-Consumable Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						10023.89
1	3.15	0.00	0.00	0.00	0.52	10026.52
2	20.66	0.00	0.00	0.00	8.00	10039.18
3	22.50	0.00	0.00	0.00	3.36	10058.32
4	26.57	0.00	0.00	0.00	7.50	10077.39
5	24.31	0.00	0.00	0.00	7.26	10094.44
6	23.17	0.00	0.00	0.00	7.26	10110.35
7	23.97	0.00	0.00	0.00	7.27	10127.05
8	23.97	0.00	0.00	0.00	6.50	10144.52
9	22.27	0.00	0.00	0.00	6.77	10160.02
10	20.80	0.00	0.00	0.00	7.03	10173.79
11	30.75	0.00	0.00	0.00	7.04	10197.50
12	52.43	0.00	0.00	0.00	7.06	10242.87
13	39.67	0.00	0.00	0.00	7.09	10275.45
14	19.12	0.00	0.00	0.00	7.11	10287.46
15	14.70	0.00	0.00	0.00	5.01	10297.15
16	13.51	0.00	0.00	0.00	7.66	10303.00
17	13.40	0.00	0.00	0.00	10.32	10306.08
18	12.61	0.00	0.00	0.00	7.94	10310.75
19	12.06	0.00	0.00	0.00	9.54	10313.27
20	12.61	0.00	0.00	0.00	9.55	10316.33
21	12.39	0.00	0.00	0.00	9.29	10319.43
22	11.50	0.00	0.00	0.00	6.12	10324.81
23	10.55	0.00	0.00	0.00	1.61	10333.75
24	10.59	0.00	0.00	0.00	7.51	10336.83
25	10.93	0.00	0.00	0.00	11.82	10335.94
26	20.60	0.00	0.00	0.00	10.51	10346.03
27	23.21	0.00	0.00	0.00	10.79	10358.45
28	29.06	0.00	0.00	0.00	10.55	10376.96
29	30.47	0.00	0.00	0.00	8.40	10399.03
30	46.67	0.00	0.00	0.00	4.61	10441.09
	638.20	0.00	0.00	0.00	221.00	

OffsetAccount-Consumable Downstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						8097.74
1	3.15	0.00	0.00	0.00	0.42	8100.47
2	20.66	0.00	0.00	0.00	6.46	8114.67
3	22.50	0.00	0.00	0.00	2.71	8134.46
4	26.57	0.00	0.00	0.00	6.07	8154.96
5	24.31	0.00	0.00	0.00	5.87	8173.40
6	23.17	0.00	0.00	0.00	5.88	8190.69
7	23.97	0.00	0.00	0.00	5.89	8208.77
8	23.97	0.00	0.00	0.00	5.27	8227.47
9	22.27	0.00	0.00	0.00	5.49	8244.25
10	20.80	0.00	0.00	0.00	5.71	8259.34
11	30.75	0.00	0.00	0.00	5.72	8284.37
12	52.43	0.00	0.00	0.00	5.74	8331.06
13	39.67	0.00	0.00	0.00	5.77	8364.96
14	19.12	0.00	0.00	0.00	5.79	8378.29
15	14.70	0.00	0.00	0.00	4.08	8388.91
16	13.51	0.00	0.00	0.00	6.24	8396.18
17	13.40	0.00	0.00	0.00	8.41	8401.17
18	12.61	0.00	0.00	0.00	6.47	8407.31
19	12.06	0.00	0.00	0.00	7.78	8411.59
20	0.00	0.00	0.00	0.00	7.79	8403.80
21	12.39	0.00	0.00	0.00	7.57	8408.62
22	11.50	0.00	0.00	0.00	4.99	8415.13
23	10.55	0.00	0.00	0.00	1.31	8424.37
24	10.59	0.00	0.00	0.00	6.12	8428.84
25	10.93	0.00	0.00	0.00	9.64	8430.13
26	20.60	0.00	0.00	0.00	8.57	8442.16
27	23.21	0.00	0.00	0.00	8.81	8456.56
28	29.06	0.00	0.00	0.00	8.61	8477.01
29	30.47	0.00	0.00	0.00	6.86	8500.62
30	46.67	0.00	0.00	0.00	3.77	8543.52
	625.59	0.00	0.00	0.00	179.81	

OffsetAccount-Consumable Kansas Charge

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						500.00
1	0.00	0.00	0.00	0.00	0.03	499.97
2	0.00	0.00	0.00	0.00	0.40	499.57
3	0.00	0.00	0.00	0.00	0.17	499.40
4	0.00	0.00	0.00	0.00	0.37	499.03
5	0.00	0.00	0.00	0.00	0.36	498.67
6	0.00	0.00	0.00	0.00	0.36	498.31
7	0.00	0.00	0.00	0.00	0.36	497.95
8	0.00	0.00	0.00	0.00	0.32	497.63
9	0.00	0.00	0.00	0.00	0.33	497.30
10	0.00	0.00	0.00	0.00	0.34	496.96
11	0.00	0.00	0.00	0.00	0.34	496.62
12	0.00	0.00	0.00	0.00	0.34	496.28
13	0.00	0.00	0.00	0.00	0.34	495.94
14	0.00	0.00	0.00	0.00	0.34	495.60
15	0.00	0.00	0.00	0.00	0.24	495.36
16	0.00	0.00	0.00	0.00	0.37	494.99
17	0.00	0.00	0.00	0.00	0.50	494.49
18	0.00	0.00	0.00	0.00	0.38	494.11
19	0.00	0.00	0.00	0.00	0.46	493.65
20	0.00	0.00	0.00	0.00	0.46	493.19
21	0.00	0.00	0.00	0.00	0.44	492.75
22	0.00	0.00	0.00	0.00	0.29	492.46
23	0.00	0.00	0.00	0.00	0.08	492.38
24	0.00	0.00	0.00	0.00	0.36	492.02
25	0.00	0.00	0.00	0.00	0.56	491.46
26	0.00	0.00	0.00	0.00	0.50	490.96
27	0.00	0.00	0.00	0.00	0.51	490.45
28	0.00	0.00	0.00	0.00	0.50	489.95
29	0.00	0.00	0.00	0.00	0.40	489.55
30	0.00	0.00	0.00	0.00	0.22	489.33
	0.00	0.00	0.00	0.00	10.67	

OffsetAccount-ReturnFlow

Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						31.08
1	0.00	0.00	0.00	0.00	0.00	31.08
2	0.00	0.00	0.00	0.00	0.02	31.06
3	0.00	0.00	0.00	0.00	0.01	31.05
4	0.00	0.00	0.00	0.00	0.02	31.03
5	0.00	0.00	0.00	0.00	0.02	31.01
6	0.00	0.00	0.00	0.00	0.02	30.99
7	0.00	0.00	0.00	0.00	0.02	30.97
8	0.00	0.00	0.00	0.00	0.02	30.95
9	0.00	0.00	0.00	0.00	0.02	30.93
10	0.00	0.00	0.00	0.00	0.02	30.91
11	0.00	0.00	0.00	0.00	0.02	30.89
12	0.00	0.00	0.00	0.00	0.02	30.87
13	0.00	0.00	0.00	0.00	0.02	30.85
14	0.00	0.00	0.00	0.00	0.02	30.83
15	0.00	0.00	0.00	0.00	0.01	30.82
16	0.00	0.00	0.00	0.00	0.02	30.80
17	0.00	0.00	0.00	0.00	0.03	30.77
18	0.00	0.00	0.00	0.00	0.02	30.75
19	0.00	0.00	0.00	0.00	0.03	30.72
20	0.00	0.00	0.00	0.00	0.03	30.69
21	0.00	0.00	0.00	0.00	0.03	30.66
22	0.00	0.00	0.00	0.00	0.02	30.64
23	0.00	0.00	0.00	0.00	0.00	30.64
24	0.00	0.00	0.00	0.00	0.02	30.62
25	0.00	0.00	0.00	0.00	0.03	30.59
26	0.00	0.00	0.00	0.00	0.03	30.56
27	0.00	0.00	0.00	0.00	0.03	30.53
28	0.00	0.00	0.00	0.00	0.03	30.50
29	0.00	0.00	0.00	0.00	0.02	30.48
30	0.00	0.00	0.00	0.00	0.01	30.47
	0.00	0.00	0.00	0.00	0.61	

OffsetAccount-ReturnFlow

RF Transit Loss

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						29.37
1	0.00	0.00	0.00	0.00	0.00	29.37
2	0.00	0.00	0.00	0.00	0.02	29.35
3	0.00	0.00	0.00	0.00	0.01	29.34
4	0.00	0.00	0.00	0.00	0.02	29.32
5	0.00	0.00	0.00	0.00	0.02	29.30
6	0.00	0.00	0.00	0.00	0.02	29.28
7	0.00	0.00	0.00	0.00	0.02	29.26
8	0.00	0.00	0.00	0.00	0.02	29.24
9	0.00	0.00	0.00	0.00	0.02	29.22
10	0.00	0.00	0.00	0.00	0.02	29.20
11	0.00	0.00	0.00	0.00	0.02	29.18
12	0.00	0.00	0.00	0.00	0.02	29.16
13	0.00	0.00	0.00	0.00	0.02	29.14
14	0.00	0.00	0.00	0.00	0.02	29.12
15	0.00	0.00	0.00	0.00	0.01	29.11
16	0.00	0.00	0.00	0.00	0.02	29.09
17	0.00	0.00	0.00	0.00	0.03	29.06
18	0.00	0.00	0.00	0.00	0.02	29.04
19	0.00	0.00	0.00	0.00	0.03	29.01
20	0.00	0.00	0.00	0.00	0.03	28.98
21	0.00	0.00	0.00	0.00	0.03	28.95
22	0.00	0.00	0.00	0.00	0.02	28.93
23	0.00	0.00	0.00	0.00	0.00	28.93
24	0.00	0.00	0.00	0.00	0.02	28.91
25	0.00	0.00	0.00	0.00	0.03	28.88
26	0.00	0.00	0.00	0.00	0.03	28.85
27	0.00	0.00	0.00	0.00	0.03	28.82
28	0.00	0.00	0.00	0.00	0.03	28.79
29	0.00	0.00	0.00	0.00	0.02	28.77
30	0.00	0.00	0.00	0.00	0.01	28.76
	0.00	0.00	0.00	0.00	0.61	

OffsetAccount-ReturnFlow

Return Flow

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						1.71
1	0.00	0.00	0.00	0.00	0.00	1.71
2	0.00	0.00	0.00	0.00	0.00	1.71
3	0.00	0.00	0.00	0.00	0.00	1.71
4	0.00	0.00	0.00	0.00	0.00	1.71
5	0.00	0.00	0.00	0.00	0.00	1.71
6	0.00	0.00	0.00	0.00	0.00	1.71
7	0.00	0.00	0.00	0.00	0.00	1.71
8	0.00	0.00	0.00	0.00	0.00	1.71
9	0.00	0.00	0.00	0.00	0.00	1.71
10	0.00	0.00	0.00	0.00	0.00	1.71
11	0.00	0.00	0.00	0.00	0.00	1.71
12	0.00	0.00	0.00	0.00	0.00	1.71
13	0.00	0.00	0.00	0.00	0.00	1.71
14	0.00	0.00	0.00	0.00	0.00	1.71
15	0.00	0.00	0.00	0.00	0.00	1.71
16	0.00	0.00	0.00	0.00	0.00	1.71
17	0.00	0.00	0.00	0.00	0.00	1.71
18	0.00	0.00	0.00	0.00	0.00	1.71
19	0.00	0.00	0.00	0.00	0.00	1.71
20	0.00	0.00	0.00	0.00	0.00	1.71
21	0.00	0.00	0.00	0.00	0.00	1.71
22	0.00	0.00	0.00	0.00	0.00	1.71
23	0.00	0.00	0.00	0.00	0.00	1.71
24	0.00	0.00	0.00	0.00	0.00	1.71
25	0.00	0.00	0.00	0.00	0.00	1.71
26	0.00	0.00	0.00	0.00	0.00	1.71
27	0.00	0.00	0.00	0.00	0.00	1.71
28	0.00	0.00	0.00	0.00	0.00	1.71
29	0.00	0.00	0.00	0.00	0.00	1.71
30	0.00	0.00	0.00	0.00	0.00	1.71
	0.00	0.00	0.00	0.00	0.00	

COLORADO
Division of Water Resources
Department of Natural Resources
Water Division 2 – Main Office

October 11, 2019

Mr. David Barfield
Kansas Chief Engineer
Kansas Board of Agriculture
901 S. Kansas Avenue, 2nd Floor
Topeka, KS 66612-1283

Ms. Stephanie Gonzales
Recording Secretary
Arkansas River Compact Administration
P.O. Box 1106
Lamar, CO 81052

RE: Monthly Report of Colorado Pumping and Offset Account Operations for May 2019

Dear Mr. Barfield and Ms. Gonzales:

The purpose of this letter is to provide the monthly report required by paragraph 12 of the **Resolution Concerning an Offset Account in John Martin Reservoir for Colorado Pumping as Amended April 30, 1998** ("Resolution"). This letter reports the monthly pumping in excess of Colorado's pre-Compact entitlement, Colorado's monthly accounting of Compact compliance, and the status of water delivered to the Offset Account, all during the month of May, 2019.

Table 1 shows the amount of pumping during the month of May 2019 by irrigation wells pumping from the Valley Fill Aquifer and surficial aquifers along the Arkansas River between Pueblo and the Stateline, as well as the corresponding wellhead depletions, by user group. The wellhead depletions were computed using the presumptive stream depletions in Rule 4.2 of the **AMENDED RULES AND REGULATIONS GOVERNING THE DIVERSION AND USE OF TRIBUTARY GROUND WATER IN THE ARKANSAS RIVER BASIN, COLORADO** ("Rules") approved in Case No. 95CW211.

Table 2 shows the wellhead depletions due to pumping by irrigation wells in the user groups below John Martin Reservoir that are in excess of the pre-Compact entitlements.

Since the replacement of depletions caused by pumping approved pursuant to the Rules that occurred above John Martin Reservoir has been detailed in the accounting previously provided to Kansas, the accounting in this report shows only remaining depletions caused by irrigation pumping in excess of the pre-Compact entitlements for those river reaches where no replacements were made to replace out-of-priority depletions to senior surface water rights in Colorado.

These stream depletions were computed using the wellhead depletions shown in Table 2 with the Ground Water Accounting Model. Please note that in Reaches 11, 12, 13, 14, 15, 16 replacements to senior surface water rights in Colorado did not replaced 100% of the stream depletions caused by pumping affecting those reaches since there was a call by a Colorado surface right in those reaches during 31 days in May.

The remaining depletions shown in Table 3 are the estimated stream depletions caused by irrigation pumping in excess of the pre-Compact entitlements remaining after replacements were made to senior surface water rights in Colorado. Table 3 also shows the estimated depletions to usable Stateline flow, which were calculated using the assumptions in paragraph 5.B of the Resolution, and the replacements to Stateline flows, which were made during the month.

The Lower Arkansas Water Management Association (LAWMA) delivered 346.04 acre-feet from Fort Lyon Canal shares, 750.76 acre-feet from Highland Canal shares and 319.61 acre-feet from Keesee ditch shares During the month of May. Deliveries to the Offset Account in May 2019 totaled 1,416.41 acre-feet.

As of May 31, 2019, a total of 11,633.81 acre-feet was stored in the Offset Account. The accounting spreadsheet for the Offset Account for the month of May is attached at Enclosure 1.

Please contact me if you have any questions or require additional information.

Sincerely,

Rachel A. Zancanella, P.E.
Assistant Division Engineer
Colorado Division of Water Resources

cc: Kevin Salter
Dale Book
Dan Steuer
Randy Hendrix
Bill Tyner

TABLE 1
Pumping By Rule 3 Irrigation Wells
May 2019

USER NO.	DITCH NAME	AF PUMPED	WELLHEAD DEPL
1	BESSEMER	646.69	290.56
2	BOOTH ORCHARD	7.22	3.70
3	EXCELSIOR	40.06	20.03
4	COLLIER	16.08	5.79
5	COLORADO	133.67	69.35
6	ROCKY FORD HIGHLINE	303.04	115.30
7	OXFORD	281.30	170.98
8	OTERO	44.23	16.41
9	CATLIN	446.51	324.51
10	FORT LYON US	827.21	307.29
11	ROCKY FORD	7.97	3.99
12	HOLBROOK	399.57	228.31
13	LAS ANIMAS CONSOLIDATED	56.33	21.65
14	BALDWIN-STUBBS	149.25	107.15
15	FORT BENT	121.42	72.02
17	AMITY	854.76	483.04
18	LAMAR/MANVEL	399.95	220.01
19	HYDE	163.71	122.44
20	FORT LYON DS	394.69	202.07
21	XY GRAHAM	433.28	292.48
22	BUFFALO	35.95	12.94
24	STATELINE SOLE SOURCE	887.98	662.23
601	LAWMA A.P.D.	10.54	8.43
602	LAWMA A.P.D.	2.90	2.18
	Totals	6685.94	3776.37

TABLE 2
Wellhead Depletions from Irrigation Wells below John Martin Reservoir (Acre-Feet)
(Reduced By Pre-Compact Entitlements)
May 2019

USER NUMBER

10	15	16	17	18	19	20	21	22	23	24	Total
0.00	25.24	0.00	476.78	221.20	122.44	164.18	292.48	12.94	0.00	648.33	1963.59

TABLE 3
Remaining Depletions to Usable Stateline Flow (Acre-Feet)
May 2019

REACH NUMBER		11	12	13	14	15	16	17	18	21	Sum	
Balance Forward from Previous Month		0	0	0	0	0	0	0	0	0	0	
Remaining Depletion		0.00	0.00	0.00	0.00	0.00	0.00	178.46	689.23	19.78	887.47	
Depletion to Usable SL Flow		0.00	0.00	0.00	0.00	0.00	0.00	146.16	564.48	16.20	726.84	
Replacements												Credit to Next Month
Replacements	Carry Forward Credit											Credit to Next Month
FRY-ARK Return Flows	0	0.00	0.00	0.00	0.00						0.00	0
Fort Lyon Aug Station/Recharge	0	56.84	0.00	0.00	0.00						56.84	0
CO Beef - Lamar Center Farm	0				0						0.00	0
Lamar Center Farm	0				0.00	179.65					179.65	0.00
Lamar Granada East/West									0.00		0.00	0.00
Ft Bent Ditch Shares	0				0						0.00	0
Stubbs Direct Flow	0								0		0.00	0
XY Direct Flow	0					0	378.87				378.87	0
Manvel Direct Flow	0					19.6					19.60	0
Offset Account Release Credit*	12048.55									93.99	93.99	11954.56
Offset Account Transit Loss	0	0.00			0.00			0.00			0.00	0
Total Replacements	0	56.84	0.00	0.00	0.00	199.25	378.87	0.00	0.00	93.99	728.95	
Depletions Carried Forward	0	0	0	0	0	0	0	0	0	0	0.00	

*Aug/SWSP depletions was brought to zero using X-Y Ditch, Granada East/West and Sisson-Stubbs credits

Enclosure 1

John Martin Offset Accounting for May 2019

OffsetAccount-Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						10471.56
1	46.05	0.00	0.00	0.00	2.74	10514.87
2	46.18	0.00	0.00	0.00	6.02	10555.03
3	59.20	0.00	0.00	0.00	9.06	10605.17
4	38.07	0.00	0.00	0.00	9.10	10634.14
5	30.25	0.00	0.00	0.00	8.30	10656.09
6	32.22	0.00	0.00	0.00	9.15	10679.16
7	31.40	0.00	0.00	0.00	1.38	10709.18
8	29.87	0.00	0.00	0.00	3.07	10735.98
9	31.85	0.00	0.00	0.00	8.67	10759.16
10	34.63	0.00	0.00	0.00	4.77	10789.02
11	34.79	0.00	0.00	0.00	4.79	10819.02
12	35.61	0.00	0.00	0.00	4.81	10849.82
13	36.78	0.00	0.00	0.00	8.83	10877.77
14	37.21	0.00	0.00	0.00	13.44	10901.54
15	60.22	0.00	0.00	0.00	9.75	10952.01
16	71.71	0.00	0.00	0.00	18.71	11005.01
17	65.70	0.00	0.00	0.00	11.59	11059.12
18	55.86	0.00	0.00	0.00	11.93	11103.05
19	41.14	0.00	0.00	0.00	11.99	11132.20
20	35.04	0.00	0.00	0.00	1.46	11165.78
21	50.95	0.00	0.00	0.00	0.59	11216.14
22	58.00	0.00	0.00	0.00	11.30	11262.84
23	65.70	0.00	0.00	0.00	0.90	11327.64
24	55.70	0.00	0.00	0.00	10.79	11372.55
25	49.11	0.00	0.00	0.00	10.84	11410.82
26	64.98	0.00	0.00	0.00	10.58	11465.22
27	55.07	0.00	0.00	0.00	10.64	11509.65
28	38.43	0.00	0.00	0.00	12.20	11535.88
29	37.65	0.00	0.00	0.00	8.57	11564.96
30	40.94	0.00	0.00	0.00	6.46	11599.44
31	46.10	0.00	0.00	0.00	11.73	11633.81
	1416.41	0.00	0.00	0.00	254.16	

OffsetAccount-Consumable Upstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						1408.24
1	0.00	0.00	0.00	0.00	0.37	1407.87
2	0.00	0.00	0.00	0.00	0.81	1407.06
3	0.00	0.00	0.00	0.00	1.21	1405.85
4	0.00	0.00	0.00	0.00	1.21	1404.64
5	0.00	0.00	0.00	0.00	1.10	1403.54
6	0.00	0.00	0.00	0.00	1.21	1402.33
7	0.00	0.00	0.00	0.00	0.18	1402.15
8	0.00	0.00	0.00	0.00	0.40	1401.75
9	0.00	0.00	0.00	0.00	1.13	1400.62
10	0.00	0.00	0.00	0.00	0.62	1400.00
11	0.00	0.00	0.00	0.00	0.62	1399.38
12	0.00	0.00	0.00	0.00	0.62	1398.76
13	0.00	0.00	0.00	0.00	1.14	1397.62
14	0.00	0.00	0.00	0.00	1.73	1395.89
15	0.00	0.00	0.00	0.00	1.25	1394.64
16	0.00	0.00	0.00	0.00	2.38	1392.26
17	0.00	0.00	0.00	0.00	1.47	1390.79
18	0.00	0.00	0.00	0.00	1.50	1389.29
19	0.00	0.00	0.00	0.00	1.50	1387.79
20	0.00	0.00	0.00	0.00	0.18	1387.61
21	0.00	0.00	0.00	0.00	0.07	1387.54
22	0.00	0.00	0.00	0.00	1.40	1386.14
23	0.00	0.00	0.00	0.00	0.11	1386.03
24	0.00	0.00	0.00	0.00	1.32	1384.71
25	0.00	0.00	0.00	0.00	1.32	1383.39
26	0.00	0.00	0.00	0.00	1.28	1382.11
27	0.00	0.00	0.00	0.00	1.28	1380.83
28	0.00	0.00	0.00	0.00	1.46	1379.37
29	0.00	0.00	0.00	0.00	1.02	1378.35
30	0.00	0.00	0.00	0.00	0.77	1377.58
31	0.00	0.00	0.00	0.00	1.39	1376.19
	0.00	0.00	0.00	0.00	32.05	

OffsetAccount-Consumable Kansas

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-Consumable Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						10441.09
1	46.05	0.00	0.00	0.00	2.73	10484.41
2	46.18	0.00	0.00	0.00	6.00	10524.59
3	59.20	0.00	0.00	0.00	9.04	10574.75
4	38.07	0.00	0.00	0.00	9.08	10603.74
5	30.25	0.00	0.00	0.00	8.28	10625.71
6	32.22	0.00	0.00	0.00	9.13	10648.80
7	31.40	0.00	0.00	0.00	1.38	10678.82
8	29.87	0.00	0.00	0.00	3.06	10705.63
9	31.85	0.00	0.00	0.00	8.65	10728.83
10	34.63	0.00	0.00	0.00	4.76	10758.70
11	34.79	0.00	0.00	0.00	4.78	10788.71
12	35.61	0.00	0.00	0.00	4.80	10819.52
13	36.78	0.00	0.00	0.00	8.81	10847.49
14	37.21	0.00	0.00	0.00	13.40	10871.30
15	60.22	0.00	0.00	0.00	9.72	10921.80
16	71.71	0.00	0.00	0.00	18.66	10974.85
17	65.70	0.00	0.00	0.00	11.56	11028.99
18	55.86	0.00	0.00	0.00	11.90	11072.95
19	41.14	0.00	0.00	0.00	11.96	11102.13
20	35.04	0.00	0.00	0.00	1.46	11135.71
21	50.95	0.00	0.00	0.00	0.59	11186.07
22	58.00	0.00	0.00	0.00	11.27	11232.80
23	65.70	0.00	0.00	0.00	0.90	11297.60
24	55.70	0.00	0.00	0.00	10.76	11342.54
25	49.11	0.00	0.00	0.00	10.81	11380.84
26	64.98	0.00	0.00	0.00	10.55	11435.27
27	55.07	0.00	0.00	0.00	10.61	11479.73
28	38.43	0.00	0.00	0.00	12.17	11505.99
29	37.65	0.00	0.00	0.00	8.55	11535.09
30	40.94	0.00	0.00	0.00	6.44	11569.59
31	46.10	0.00	0.00	0.00	11.70	11603.99
	1416.41	0.00	0.00	0.00	253.51	

OffsetAccount-Consumable Downstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						8543.52
1	46.05	0.00	0.00	0.00	2.23	8587.34
2	46.18	0.00	0.00	0.00	4.91	8628.61
3	59.20	0.00	0.00	0.00	7.41	8680.40
4	38.07	0.00	0.00	0.00	7.45	8711.02
5	30.25	0.00	0.00	0.00	6.80	8734.47
6	32.22	0.00	0.00	0.00	7.50	8759.19
7	31.40	0.00	0.00	0.00	1.14	8789.45
8	29.87	0.00	0.00	0.00	2.52	8816.80
9	31.85	0.00	0.00	0.00	7.13	8841.52
10	34.63	0.00	0.00	0.00	3.92	8872.23
11	34.79	0.00	0.00	0.00	3.94	8903.08
12	35.61	0.00	0.00	0.00	3.96	8934.73
13	36.78	0.00	0.00	0.00	7.27	8964.24
14	37.21	0.00	0.00	0.00	11.07	8990.38
15	60.22	0.00	0.00	0.00	8.04	9042.56
16	71.71	0.00	0.00	0.00	15.45	9098.82
17	65.70	0.00	0.00	0.00	9.58	9154.94
18	55.86	0.00	0.00	0.00	9.88	9200.92
19	41.14	0.00	0.00	0.00	9.94	9232.12
20	35.04	0.00	0.00	0.00	1.22	9265.94
21	50.95	0.00	0.00	0.00	0.49	9316.40
22	58.00	0.00	0.00	0.00	9.38	9365.02
23	65.70	0.00	0.00	0.00	0.75	9429.97
24	55.70	0.00	0.00	0.00	8.98	9476.69
25	49.11	0.00	0.00	0.00	9.03	9516.77
26	64.98	0.00	0.00	0.00	8.82	9572.93
27	55.07	0.00	0.00	0.00	8.88	9619.12
28	38.43	0.00	0.00	0.00	10.20	9647.35
29	37.65	0.00	0.00	0.00	7.17	9677.83
30	40.94	0.00	0.00	0.00	5.40	9713.37
31	46.10	0.00	0.00	0.00	9.83	9749.64
	1416.41	0.00	0.00	0.00	210.29	

OffsetAccount-Consumable Kansas Charge

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						489.33
1	0.00	0.00	0.00	0.00	0.13	489.20
2	0.00	0.00	0.00	0.00	0.28	488.92
3	0.00	0.00	0.00	0.00	0.42	488.50
4	0.00	0.00	0.00	0.00	0.42	488.08
5	0.00	0.00	0.00	0.00	0.38	487.70
6	0.00	0.00	0.00	0.00	0.42	487.28
7	0.00	0.00	0.00	0.00	0.06	487.22
8	0.00	0.00	0.00	0.00	0.14	487.08
9	0.00	0.00	0.00	0.00	0.39	486.69
10	0.00	0.00	0.00	0.00	0.22	486.47
11	0.00	0.00	0.00	0.00	0.22	486.25
12	0.00	0.00	0.00	0.00	0.22	486.03
13	0.00	0.00	0.00	0.00	0.40	485.63
14	0.00	0.00	0.00	0.00	0.60	485.03
15	0.00	0.00	0.00	0.00	0.43	484.60
16	0.00	0.00	0.00	0.00	0.83	483.77
17	0.00	0.00	0.00	0.00	0.51	483.26
18	0.00	0.00	0.00	0.00	0.52	482.74
19	0.00	0.00	0.00	0.00	0.52	482.22
20	0.00	0.00	0.00	0.00	0.06	482.16
21	0.00	0.00	0.00	0.00	0.03	482.13
22	0.00	0.00	0.00	0.00	0.49	481.64
23	0.00	0.00	0.00	0.00	0.04	481.60
24	0.00	0.00	0.00	0.00	0.46	481.14
25	0.00	0.00	0.00	0.00	0.46	480.68
26	0.00	0.00	0.00	0.00	0.45	480.23
27	0.00	0.00	0.00	0.00	0.45	479.78
28	0.00	0.00	0.00	0.00	0.51	479.27
29	0.00	0.00	0.00	0.00	0.36	478.91
30	0.00	0.00	0.00	0.00	0.27	478.64
31	0.00	0.00	0.00	0.00	0.48	478.16
	0.00	0.00	0.00	0.00	11.17	

OffsetAccount-ReturnFlow

Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						30.47
1	0.00	0.00	0.00	0.00	0.01	30.46
2	0.00	0.00	0.00	0.00	0.02	30.44
3	0.00	0.00	0.00	0.00	0.02	30.42
4	0.00	0.00	0.00	0.00	0.02	30.40
5	0.00	0.00	0.00	0.00	0.02	30.38
6	0.00	0.00	0.00	0.00	0.02	30.36
7	0.00	0.00	0.00	0.00	0.00	30.36
8	0.00	0.00	0.00	0.00	0.01	30.35
9	0.00	0.00	0.00	0.00	0.02	30.33
10	0.00	0.00	0.00	0.00	0.01	30.32
11	0.00	0.00	0.00	0.00	0.01	30.31
12	0.00	0.00	0.00	0.00	0.01	30.30
13	0.00	0.00	0.00	0.00	0.02	30.28
14	0.00	0.00	0.00	0.00	0.04	30.24
15	0.00	0.00	0.00	0.00	0.03	30.21
16	0.00	0.00	0.00	0.00	0.05	30.16
17	0.00	0.00	0.00	0.00	0.03	30.13
18	0.00	0.00	0.00	0.00	0.03	30.10
19	0.00	0.00	0.00	0.00	0.03	30.07
20	0.00	0.00	0.00	0.00	0.00	30.07
21	0.00	0.00	0.00	0.00	0.00	30.07
22	0.00	0.00	0.00	0.00	0.03	30.04
23	0.00	0.00	0.00	0.00	0.00	30.04
24	0.00	0.00	0.00	0.00	0.03	30.01
25	0.00	0.00	0.00	0.00	0.03	29.98
26	0.00	0.00	0.00	0.00	0.03	29.95
27	0.00	0.00	0.00	0.00	0.03	29.92
28	0.00	0.00	0.00	0.00	0.03	29.89
29	0.00	0.00	0.00	0.00	0.02	29.87
30	0.00	0.00	0.00	0.00	0.02	29.85
31	0.00	0.00	0.00	0.00	0.03	29.82
	0.00	0.00	0.00	0.00	0.65	

OffsetAccount-ReturnFlow

RF Transit Loss

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						28.76
1	0.00	0.00	0.00	0.00	0.01	28.75
2	0.00	0.00	0.00	0.00	0.02	28.73
3	0.00	0.00	0.00	0.00	0.02	28.71
4	0.00	0.00	0.00	0.00	0.02	28.69
5	0.00	0.00	0.00	0.00	0.02	28.67
6	0.00	0.00	0.00	0.00	0.02	28.65
7	0.00	0.00	0.00	0.00	0.00	28.65
8	0.00	0.00	0.00	0.00	0.01	28.64
9	0.00	0.00	0.00	0.00	0.02	28.62
10	0.00	0.00	0.00	0.00	0.01	28.61
11	0.00	0.00	0.00	0.00	0.01	28.60
12	0.00	0.00	0.00	0.00	0.01	28.59
13	0.00	0.00	0.00	0.00	0.02	28.57
14	0.00	0.00	0.00	0.00	0.04	28.53
15	0.00	0.00	0.00	0.00	0.03	28.50
16	0.00	0.00	0.00	0.00	0.05	28.45
17	0.00	0.00	0.00	0.00	0.03	28.42
18	0.00	0.00	0.00	0.00	0.03	28.39
19	0.00	0.00	0.00	0.00	0.03	28.36
20	0.00	0.00	0.00	0.00	0.00	28.36
21	0.00	0.00	0.00	0.00	0.00	28.36
22	0.00	0.00	0.00	0.00	0.03	28.33
23	0.00	0.00	0.00	0.00	0.00	28.33
24	0.00	0.00	0.00	0.00	0.03	28.30
25	0.00	0.00	0.00	0.00	0.03	28.27
26	0.00	0.00	0.00	0.00	0.03	28.24
27	0.00	0.00	0.00	0.00	0.03	28.21
28	0.00	0.00	0.00	0.00	0.03	28.18
29	0.00	0.00	0.00	0.00	0.02	28.16
30	0.00	0.00	0.00	0.00	0.02	28.14
31	0.00	0.00	0.00	0.00	0.03	28.11
	0.00	0.00	0.00	0.00	0.65	

OffsetAccount-ReturnFlow

Return Flow

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						1.71
1	0.00	0.00	0.00	0.00	0.00	1.71
2	0.00	0.00	0.00	0.00	0.00	1.71
3	0.00	0.00	0.00	0.00	0.00	1.71
4	0.00	0.00	0.00	0.00	0.00	1.71
5	0.00	0.00	0.00	0.00	0.00	1.71
6	0.00	0.00	0.00	0.00	0.00	1.71
7	0.00	0.00	0.00	0.00	0.00	1.71
8	0.00	0.00	0.00	0.00	0.00	1.71
9	0.00	0.00	0.00	0.00	0.00	1.71
10	0.00	0.00	0.00	0.00	0.00	1.71
11	0.00	0.00	0.00	0.00	0.00	1.71
12	0.00	0.00	0.00	0.00	0.00	1.71
13	0.00	0.00	0.00	0.00	0.00	1.71
14	0.00	0.00	0.00	0.00	0.00	1.71
15	0.00	0.00	0.00	0.00	0.00	1.71
16	0.00	0.00	0.00	0.00	0.00	1.71
17	0.00	0.00	0.00	0.00	0.00	1.71
18	0.00	0.00	0.00	0.00	0.00	1.71
19	0.00	0.00	0.00	0.00	0.00	1.71
20	0.00	0.00	0.00	0.00	0.00	1.71
21	0.00	0.00	0.00	0.00	0.00	1.71
22	0.00	0.00	0.00	0.00	0.00	1.71
23	0.00	0.00	0.00	0.00	0.00	1.71
24	0.00	0.00	0.00	0.00	0.00	1.71
25	0.00	0.00	0.00	0.00	0.00	1.71
26	0.00	0.00	0.00	0.00	0.00	1.71
27	0.00	0.00	0.00	0.00	0.00	1.71
28	0.00	0.00	0.00	0.00	0.00	1.71
29	0.00	0.00	0.00	0.00	0.00	1.71
30	0.00	0.00	0.00	0.00	0.00	1.71
31	0.00	0.00	0.00	0.00	0.00	1.71
	0.00	0.00	0.00	0.00	0.00	

COLORADO
Division of Water Resources
Department of Natural Resources
Water Division 2 – Main Office

October 11, 2019

Mr. David Barfield
Kansas Chief Engineer
Kansas Board of Agriculture
901 S. Kansas Avenue, 2nd Floor
Topeka, KS 66612-1283

Ms. Stephanie Gonzales
Recording Secretary
Arkansas River Compact Administration
P.O. Box 1106
Lamar, CO 81052

RE: Monthly Report of Colorado Pumping and Offset Account Operations for June 2019

Dear Mr. Barfield and Ms. Gonzales:

The purpose of this letter is to provide the monthly report required by paragraph 12 of the **Resolution Concerning an Offset Account in John Martin Reservoir for Colorado Pumping as Amended April 30, 1998** ("Resolution"). This letter reports the monthly pumping in excess of Colorado's pre-Compact entitlement, Colorado's monthly accounting of Compact compliance, and the status of water delivered to the Offset Account, all during the month of June, 2019.

Table 1 shows the amount of pumping during the month of June 2019 by irrigation wells pumping from the Valley Fill Aquifer and surficial aquifers along the Arkansas River between Pueblo and the Stateline, as well as the corresponding wellhead depletions, by user group. The wellhead depletions were computed using the presumptive stream depletions in Rule 4.2 of the **AMENDED RULES AND REGULATIONS GOVERNING THE DIVERSION AND USE OF TRIBUTARY GROUND WATER IN THE ARKANSAS RIVER BASIN, COLORADO** ("Rules") approved in Case No. 95CW211.

Table 2 shows the wellhead depletions due to pumping by irrigation wells in the user groups below John Martin Reservoir that are in excess of the pre-Compact entitlements.

Since the replacement of depletions caused by pumping approved pursuant to the Rules that occurred above John Martin Reservoir has been detailed in the accounting previously provided to Kansas, the accounting in this report shows only remaining depletions caused by irrigation pumping in excess of the pre-Compact entitlements for those river reaches where no replacements were made to replace out-of-priority depletions to senior surface water rights in Colorado.

These stream depletions were computed using the wellhead depletions shown in Table 2 with the Ground Water Accounting Model. Please note that in Reaches 11, 12, and 13, replacements to senior surface water rights in Colorado replaced 90% of the stream depletions caused by pumping affecting those reaches since there was a call by a Colorado surface water right in those reaches during 27 days in June. Also note that in Reaches 14, 15, 16 replacements to senior surface water rights in Colorado replaced 100% of the stream

depletions caused by pumping affecting those reaches since there was a call by a Colorado surface right in those reaches during 30 days in June.

The remaining depletions shown in Table 3 are the estimated stream depletions caused by irrigation pumping in excess of the pre-Compact entitlements remaining after replacements were made to senior surface water rights in Colorado. Table 3 also shows the estimated depletions to usable Stateline flow, which were calculated using the assumptions in paragraph 5.B of the Resolution, and the replacements to Stateline flows, which were made during the month.

The Lower Arkansas Water Management Association (LAWMA) delivered 918.03 acre-feet from Fort Lyon Canal shares, 615.07 acre-feet from Highland Canal shares and 431.08 acre-feet from Keesee ditch shares during the month of May. Deliveries to the Offset Account in June 2019 totaled 1,964.18 acre-feet. In addition, LAWMA transferred 500 acre-feet into the Downstream Consumable Subaccount, 39 acre-feet into the Return Flow Transit Loss Subaccount and 241.03 acre-feet into the Return Flow Subaccount from the Sisson Article II account for a total of 780.03 acre-feet of transfers into the Offset Account in June 2019.

As of June 30, 2019, a total of 13,965.62 acre-feet was stored in the Offset Account. The accounting spreadsheet for the Offset Account for the month of June is attached in Enclosure 1.

Please contact me if you have any questions or require additional information.

Sincerely,

Rachel A. Zancanella, P.E.
Assistant Division Engineer
Colorado Division of Water Resources

cc: Kevin Salter
Dale Book
Dan Steuer
Randy Hendrix
Bill Tyner

TABLE 1
Pumping By Rule 3 Irrigation Wells
June 2019

USER NO.	DITCH NAME	AF PUMPED	WELLHEAD DEPL
1	BESSEMER	724.63	331.20
2	BOOTH ORCHARD	0.79	0.45
3	EXCELSIOR	78.75	39.38
4	COLLIER	0.00	0.00
5	COLORADO	169.17	85.72
6	ROCKY FORD HIGHLINE	139.23	54.67
7	OXFORD	146.25	71.33
8	OTERO	35.59	13.17
9	CATLIN	592.39	422.27
10	FORT LYON US	777.52	317.35
11	ROCKY FORD	25.36	12.56
12	HOLBROOK	112.03	75.19
13	LAS ANIMAS CONSOLIDATED	97.64	44.28
14	BALDWIN-STUBBS	92.31	83.66
15	FORT BENT	116.25	81.69
17	AMITY	946.59	604.92
18	LAMAR/MANVEL	320.28	192.28
19	HYDE	47.35	35.50
20	FORT LYON DS	724.57	384.35
21	XY GRAHAM	370.23	251.07
22	BUFFALO	5.53	1.99
24	STATELINE SOLE SOURCE	2746.73	2052.73
601	LAWMA A.P.D.	21.61	17.29
602	LAWMA A.P.D.	4.26	3.20
	Totals	8339.81	5204.50

TABLE 2
Wellhead Depletions from Irrigation Wells below John Martin Reservoir (Acre-Feet)
(Reduced By Pre-Compact Entitlements)
June 2019

USER NUMBER

10	15	16	17	18	19	20	21	22	23	24	Total
0.00	20.11	0.00	604.92	194.87	35.50	282.11	251.07	1.99	0.00	1997.93	3388.50

TABLE 3
Remaining Depletions to Usable Stateline Flow (Acre-Feet)
June 2019

REACH NUMBER		11	12	13	14	15	16	17	18	21	Sum	
Balance Forward from Previous Month		0	0	0	0	0	0	0	0	0	0	
Remaining Depletion		1.71	3.41	15.74	0.00	0.00	0.00	217.64	886.99	17.00	1142.49	
Depletion to Usable SL Flow		1.40	2.79	12.89	0.00	0.00	0.00	178.24	726.44	13.92	935.70	
Replacements												Credit to Next Month
FRY-ARK Return Flows	0	0.00	0.00	0.00	0.00						0.00	0
Fort Lyon Aug Station/Recharge	0	25.39	153.80	32.86	0.00						212.05	0
CO Beef - Lamar Center Farm	0				0						0.00	0
Lamar Center Farm	0				0.00	307.69					307.69	0.00
Lamar Granada East/West									290.46		290.46	0
Ft Bent Ditch Shares	0				0						0.00	0
Stubbs Direct Flow	0								0		0.00	0.00
XY Direct Flow	0					0	74.37				74.37	0.00
Manvel Direct Flow	0					18.92					18.92	18.92
Offset Account Release Credit*	11954.56									54.21	54.21	11900.35
Offset Account Transit Loss	0	0.00			0.00			0.00			0.00	0
Offset Account Water	0	0									0.00	0
Total Replacements	0	25.39	153.80	32.86	0.00	326.61	74.37	0.00	290.46	54.21	957.70	
Depletions Carried Forward	0	0	0	0	0	0	0	0	0	0	0.00	

*915.05 acre-feet of SWSP and Augmentation Plan depletion balance due was brought to zero using 666.51 acre-feet of Offset Account release credits and 248.54 acre-feet of X-Y Ditch credits.

Enclosure 1

John Martin Offset Accounting for June 2019

OffsetAccount-Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						11633.81
1	72.73	0.00	0.00	0.00	11.82	11694.72
2	61.94	0.00	0.00	0.00	11.91	11744.75
3	46.23	0.00	0.00	0.00	6.62	11784.36
4	60.69	0.00	0.00	0.00	9.19	11835.86
5	48.87	0.00	0.00	0.00	9.55	11875.18
6	42.81	0.00	0.00	0.00	14.39	11903.60
7	52.67	0.00	0.00	0.00	12.20	11944.07
8	47.97	0.00	0.00	0.00	12.27	11979.77
9	47.13	0.00	0.00	0.00	12.32	12014.58
10	70.94	0.00	0.00	0.00	15.29	12070.23
11	74.09	0.00	0.00	0.00	12.10	12132.22
12	62.01	0.00	0.00	0.00	18.09	12176.14
13	91.15	0.00	0.00	0.00	11.58	12255.71
14	96.47	0.00	0.00	0.00	13.67	12338.51
15	62.66	0.00	0.00	0.00	13.71	12387.46
16	59.64	0.00	0.00	0.00	13.68	12433.42
17	85.99	0.00	0.00	0.00	13.02	12506.39
18	98.41	0.00	0.00	0.00	9.04	12595.76
19	75.83	0.00	0.00	0.00	11.36	12660.23
20	39.33	0.00	0.00	0.00	16.08	12683.48
21	52.38	0.00	0.00	0.00	13.76	12722.10
22	90.82	0.00	0.00	0.00	13.81	12799.11
23	76.01	0.00	0.00	0.00	14.20	12860.92
24	83.97	0.00	0.00	0.00	12.90	12931.99
25	82.24	0.00	0.00	0.00	16.71	12997.52
26	56.71	0.00	0.00	0.00	12.70	13041.53
27	63.59	0.00	0.00	0.00	21.76	13083.36
28	77.53	0.00	0.00	0.00	19.42	13141.47
29	53.51	0.00	0.00	0.00	19.75	13175.23
30	29.86	780.03	0.00	0.00	19.50	13965.62
	1964.18	780.03	0.00	0.00	412.40	

OffsetAccount-Consumable Upstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						1376.19
1	0.00	0.00	0.00	0.00	1.40	1374.79
2	0.00	0.00	0.00	0.00	1.40	1373.39
3	0.00	0.00	0.00	0.00	0.77	1372.62
4	0.00	0.00	0.00	0.00	1.07	1371.55
5	0.00	0.00	0.00	0.00	1.11	1370.44
6	0.00	0.00	0.00	0.00	1.66	1368.78
7	0.00	0.00	0.00	0.00	1.40	1367.38
8	0.00	0.00	0.00	0.00	1.40	1365.98
9	0.00	0.00	0.00	0.00	1.40	1364.58
10	0.00	0.00	0.00	0.00	1.74	1362.84
11	0.00	0.00	0.00	0.00	1.37	1361.47
12	0.00	0.00	0.00	0.00	2.03	1359.44
13	0.00	0.00	0.00	0.00	1.29	1358.15
14	0.00	0.00	0.00	0.00	1.51	1356.64
15	0.00	0.00	0.00	0.00	1.51	1355.13
16	0.00	0.00	0.00	0.00	1.50	1353.63
17	0.00	0.00	0.00	0.00	1.42	1352.21
18	0.00	0.00	0.00	0.00	0.98	1351.23
19	0.00	0.00	0.00	0.00	1.22	1350.01
20	0.00	0.00	0.00	0.00	1.71	1348.30
21	0.00	0.00	0.00	0.00	1.46	1346.84
22	0.00	0.00	0.00	0.00	1.46	1345.38
23	0.00	0.00	0.00	0.00	1.49	1343.89
24	0.00	0.00	0.00	0.00	1.35	1342.54
25	0.00	0.00	0.00	0.00	1.73	1340.81
26	0.00	0.00	0.00	0.00	1.31	1339.50
27	0.00	0.00	0.00	0.00	2.23	1337.27
28	0.00	0.00	0.00	0.00	1.99	1335.28
29	0.00	0.00	0.00	0.00	2.01	1333.27
30	0.00	0.00	0.00	0.00	1.98	1331.29
	0.00	0.00	0.00	0.00	44.90	

OffsetAccount-Consumable Kansas

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-Consumable Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						11603.99
1	72.73	0.00	0.00	0.00	11.79	11664.93
2	61.94	0.00	0.00	0.00	11.88	11714.99
3	46.23	0.00	0.00	0.00	6.60	11754.62
4	60.69	0.00	0.00	0.00	9.17	11806.14
5	48.87	0.00	0.00	0.00	9.53	11845.48
6	42.81	0.00	0.00	0.00	14.36	11873.93
7	52.67	0.00	0.00	0.00	12.17	11914.43
8	47.97	0.00	0.00	0.00	12.24	11950.16
9	47.13	0.00	0.00	0.00	12.29	11985.00
10	70.94	0.00	0.00	0.00	15.25	12040.69
11	74.09	0.00	0.00	0.00	12.07	12102.71
12	62.01	0.00	0.00	0.00	18.05	12146.67
13	91.15	0.00	0.00	0.00	11.55	12226.27
14	96.47	0.00	0.00	0.00	13.64	12309.10
15	62.66	0.00	0.00	0.00	13.68	12358.08
16	59.64	0.00	0.00	0.00	13.65	12404.07
17	85.99	0.00	0.00	0.00	12.99	12477.07
18	98.41	0.00	0.00	0.00	9.02	12566.46
19	75.83	0.00	0.00	0.00	11.34	12630.95
20	39.33	0.00	0.00	0.00	16.04	12654.24
21	52.38	0.00	0.00	0.00	13.73	12692.89
22	90.82	0.00	0.00	0.00	13.78	12769.93
23	76.01	0.00	0.00	0.00	14.17	12831.77
24	83.97	0.00	0.00	0.00	12.87	12902.87
25	82.24	0.00	0.00	0.00	16.67	12968.44
26	56.71	0.00	0.00	0.00	12.67	13012.48
27	63.59	0.00	0.00	0.00	21.71	13054.36
28	77.53	0.00	0.00	0.00	19.38	13112.51
29	53.51	0.00	0.00	0.00	19.71	13146.31
30	29.86	500.00	0.00	0.00	19.46	13656.71
	1964.18	500.00	0.00	0.00	411.46	

OffsetAccount-Consumable Downstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						9749.64
1	72.73	0.00	0.00	0.00	9.90	9812.47
2	61.94	0.00	0.00	0.00	9.99	9864.42
3	46.23	0.00	0.00	0.00	5.56	9905.09
4	60.69	0.00	0.00	0.00	7.73	9958.05
5	48.87	0.00	0.00	0.00	8.04	9998.88
6	42.81	0.00	0.00	0.00	12.12	10029.57
7	52.67	0.00	0.00	0.00	10.28	10071.96
8	47.97	0.00	0.00	0.00	10.35	10109.58
9	47.13	0.00	0.00	0.00	10.40	10146.31
10	70.94	0.00	0.00	0.00	12.91	10204.34
11	74.09	0.00	0.00	0.00	10.23	10268.20
12	62.01	0.00	0.00	0.00	15.31	10314.90
13	91.15	0.00	0.00	0.00	9.81	10396.24
14	96.47	0.00	0.00	0.00	11.60	10481.11
15	62.66	0.00	0.00	0.00	11.65	10532.12
16	59.64	0.00	0.00	0.00	11.63	10580.13
17	85.99	0.00	0.00	0.00	11.08	10655.04
18	98.41	0.00	0.00	0.00	7.70	10745.75
19	75.83	0.00	0.00	0.00	9.70	10811.88
20	39.33	0.00	0.00	0.00	13.73	10837.48
21	52.38	0.00	0.00	0.00	11.76	10878.10
22	90.82	0.00	0.00	0.00	11.81	10957.11
23	76.01	0.00	0.00	0.00	12.16	11020.96
24	83.97	0.00	0.00	0.00	11.05	11093.88
25	82.24	0.00	0.00	0.00	14.34	11161.78
26	56.71	0.00	0.00	0.00	10.90	11207.59
27	63.59	0.00	0.00	0.00	18.70	11252.48
28	77.53	0.00	0.00	0.00	16.70	11313.31
29	53.51	0.00	0.00	0.00	17.00	11349.82
30	29.86	500.00	0.00	0.00	16.79	11862.89
	1964.18	500.00	0.00	0.00	350.93	

OffsetAccount-Consumable Kansas Charge

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						478.16
1	0.00	0.00	0.00	0.00	0.49	477.67
2	0.00	0.00	0.00	0.00	0.49	477.18
3	0.00	0.00	0.00	0.00	0.27	476.91
4	0.00	0.00	0.00	0.00	0.37	476.54
5	0.00	0.00	0.00	0.00	0.38	476.16
6	0.00	0.00	0.00	0.00	0.58	475.58
7	0.00	0.00	0.00	0.00	0.49	475.09
8	0.00	0.00	0.00	0.00	0.49	474.60
9	0.00	0.00	0.00	0.00	0.49	474.11
10	0.00	0.00	0.00	0.00	0.60	473.51
11	0.00	0.00	0.00	0.00	0.47	473.04
12	0.00	0.00	0.00	0.00	0.71	472.33
13	0.00	0.00	0.00	0.00	0.45	471.88
14	0.00	0.00	0.00	0.00	0.53	471.35
15	0.00	0.00	0.00	0.00	0.52	470.83
16	0.00	0.00	0.00	0.00	0.52	470.31
17	0.00	0.00	0.00	0.00	0.49	469.82
18	0.00	0.00	0.00	0.00	0.34	469.48
19	0.00	0.00	0.00	0.00	0.42	469.06
20	0.00	0.00	0.00	0.00	0.60	468.46
21	0.00	0.00	0.00	0.00	0.51	467.95
22	0.00	0.00	0.00	0.00	0.51	467.44
23	0.00	0.00	0.00	0.00	0.52	466.92
24	0.00	0.00	0.00	0.00	0.47	466.45
25	0.00	0.00	0.00	0.00	0.60	465.85
26	0.00	0.00	0.00	0.00	0.46	465.39
27	0.00	0.00	0.00	0.00	0.78	464.61
28	0.00	0.00	0.00	0.00	0.69	463.92
29	0.00	0.00	0.00	0.00	0.70	463.22
30	0.00	0.00	0.00	0.00	0.69	462.53
	0.00	0.00	0.00	0.00	15.63	

OffsetAccount-ReturnFlow

Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						29.82
1	0.00	0.00	0.00	0.00	0.03	29.79
2	0.00	0.00	0.00	0.00	0.03	29.76
3	0.00	0.00	0.00	0.00	0.02	29.74
4	0.00	0.00	0.00	0.00	0.02	29.72
5	0.00	0.00	0.00	0.00	0.02	29.70
6	0.00	0.00	0.00	0.00	0.03	29.67
7	0.00	0.00	0.00	0.00	0.03	29.64
8	0.00	0.00	0.00	0.00	0.03	29.61
9	0.00	0.00	0.00	0.00	0.03	29.58
10	0.00	0.00	0.00	0.00	0.04	29.54
11	0.00	0.00	0.00	0.00	0.03	29.51
12	0.00	0.00	0.00	0.00	0.04	29.47
13	0.00	0.00	0.00	0.00	0.03	29.44
14	0.00	0.00	0.00	0.00	0.03	29.41
15	0.00	0.00	0.00	0.00	0.03	29.38
16	0.00	0.00	0.00	0.00	0.03	29.35
17	0.00	0.00	0.00	0.00	0.03	29.32
18	0.00	0.00	0.00	0.00	0.02	29.30
19	0.00	0.00	0.00	0.00	0.02	29.28
20	0.00	0.00	0.00	0.00	0.04	29.24
21	0.00	0.00	0.00	0.00	0.03	29.21
22	0.00	0.00	0.00	0.00	0.03	29.18
23	0.00	0.00	0.00	0.00	0.03	29.15
24	0.00	0.00	0.00	0.00	0.03	29.12
25	0.00	0.00	0.00	0.00	0.04	29.08
26	0.00	0.00	0.00	0.00	0.03	29.05
27	0.00	0.00	0.00	0.00	0.05	29.00
28	0.00	0.00	0.00	0.00	0.04	28.96
29	0.00	0.00	0.00	0.00	0.04	28.92
30	0.00	280.03	0.00	0.00	0.04	308.91
	0.00	280.03	0.00	0.00	0.94	

OffsetAccount-ReturnFlow

RF Transit Loss

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						28.11
1	0.00	0.00	0.00	0.00	0.03	28.08
2	0.00	0.00	0.00	0.00	0.03	28.05
3	0.00	0.00	0.00	0.00	0.02	28.03
4	0.00	0.00	0.00	0.00	0.02	28.01
5	0.00	0.00	0.00	0.00	0.02	27.99
6	0.00	0.00	0.00	0.00	0.03	27.96
7	0.00	0.00	0.00	0.00	0.03	27.93
8	0.00	0.00	0.00	0.00	0.03	27.90
9	0.00	0.00	0.00	0.00	0.03	27.87
10	0.00	0.00	0.00	0.00	0.04	27.83
11	0.00	0.00	0.00	0.00	0.03	27.80
12	0.00	0.00	0.00	0.00	0.04	27.76
13	0.00	0.00	0.00	0.00	0.03	27.73
14	0.00	0.00	0.00	0.00	0.03	27.70
15	0.00	0.00	0.00	0.00	0.03	27.67
16	0.00	0.00	0.00	0.00	0.03	27.64
17	0.00	0.00	0.00	0.00	0.03	27.61
18	0.00	0.00	0.00	0.00	0.02	27.59
19	0.00	0.00	0.00	0.00	0.02	27.57
20	0.00	0.00	0.00	0.00	0.04	27.53
21	0.00	0.00	0.00	0.00	0.03	27.50
22	0.00	0.00	0.00	0.00	0.03	27.47
23	0.00	0.00	0.00	0.00	0.03	27.44
24	0.00	0.00	0.00	0.00	0.03	27.41
25	0.00	0.00	0.00	0.00	0.04	27.37
26	0.00	0.00	0.00	0.00	0.03	27.34
27	0.00	0.00	0.00	0.00	0.05	27.29
28	0.00	0.00	0.00	0.00	0.04	27.25
29	0.00	0.00	0.00	0.00	0.04	27.21
30	0.00	39.00	0.00	0.00	0.04	66.17
	0.00	39.00	0.00	0.00	0.94	

OffsetAccount-ReturnFlow

Return Flow

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						1.71
1	0.00	0.00	0.00	0.00	0.00	1.71
2	0.00	0.00	0.00	0.00	0.00	1.71
3	0.00	0.00	0.00	0.00	0.00	1.71
4	0.00	0.00	0.00	0.00	0.00	1.71
5	0.00	0.00	0.00	0.00	0.00	1.71
6	0.00	0.00	0.00	0.00	0.00	1.71
7	0.00	0.00	0.00	0.00	0.00	1.71
8	0.00	0.00	0.00	0.00	0.00	1.71
9	0.00	0.00	0.00	0.00	0.00	1.71
10	0.00	0.00	0.00	0.00	0.00	1.71
11	0.00	0.00	0.00	0.00	0.00	1.71
12	0.00	0.00	0.00	0.00	0.00	1.71
13	0.00	0.00	0.00	0.00	0.00	1.71
14	0.00	0.00	0.00	0.00	0.00	1.71
15	0.00	0.00	0.00	0.00	0.00	1.71
16	0.00	0.00	0.00	0.00	0.00	1.71
17	0.00	0.00	0.00	0.00	0.00	1.71
18	0.00	0.00	0.00	0.00	0.00	1.71
19	0.00	0.00	0.00	0.00	0.00	1.71
20	0.00	0.00	0.00	0.00	0.00	1.71
21	0.00	0.00	0.00	0.00	0.00	1.71
22	0.00	0.00	0.00	0.00	0.00	1.71
23	0.00	0.00	0.00	0.00	0.00	1.71
24	0.00	0.00	0.00	0.00	0.00	1.71
25	0.00	0.00	0.00	0.00	0.00	1.71
26	0.00	0.00	0.00	0.00	0.00	1.71
27	0.00	0.00	0.00	0.00	0.00	1.71
28	0.00	0.00	0.00	0.00	0.00	1.71
29	0.00	0.00	0.00	0.00	0.00	1.71
30	0.00	241.03	0.00	0.00	0.00	242.74
	0.00	241.03	0.00	0.00	0.00	

COLORADO
Division of Water Resources
Department of Natural Resources
Water Division 2 – Main Office

October 11, 2019

Mr. David Barfield
Kansas Chief Engineer
Kansas Board of Agriculture
901 S. Kansas Avenue, 2nd Floor
Topeka, KS 66612-1283

Ms. Stephanie Gonzales
Recording Secretary
Arkansas River Compact Administration
P.O. Box 1106
Lamar, CO 81052

RE: Monthly Report of Colorado Pumping and Offset Account Operations for July 2019

Dear Mr. Barfield and Ms. Gonzales:

The purpose of this letter is to provide the monthly report required by paragraph 12 of the **Resolution Concerning an Offset Account in John Martin Reservoir for Colorado Pumping as Amended April 30, 1998** ("Resolution"). This letter reports the monthly pumping in excess of Colorado's pre-Compact entitlement, Colorado's monthly accounting of Compact compliance, and the status of water delivered to the Offset Account, all during the month of July, 2019.

Table 1 shows the amount of pumping during the month of July 2019 by irrigation wells pumping from the Valley Fill Aquifer and surficial aquifers along the Arkansas River between Pueblo and the Stateline, as well as the corresponding wellhead depletions, by user group. The wellhead depletions were computed using the presumptive stream depletions in Rule 4.2 of the **AMENDED RULES AND REGULATIONS GOVERNING THE DIVERSION AND USE OF TRIBUTARY GROUND WATER IN THE ARKANSAS RIVER BASIN, COLORADO** ("Rules") approved in Case No. 95CW211.

Table 2 shows the wellhead depletions due to pumping by irrigation wells in the user groups below John Martin Reservoir that are in excess of the pre-Compact entitlements.

Since the replacement of depletions caused by pumping approved pursuant to the Rules that occurred above John Martin Reservoir has been detailed in the accounting previously provided to Kansas, the accounting in this report shows only remaining depletions caused by irrigation pumping in excess of the pre-Compact entitlements for those river reaches where no replacements were made to replace out-of-priority depletions to senior surface water rights in Colorado.

These stream depletions were computed using the wellhead depletions shown in Table 2 with the Ground Water Accounting Model. Please note that in Reaches 11, 12, and 13, replacements to senior surface water rights in Colorado replaced 100% of the stream depletions caused by pumping affecting those reaches since there was a call by a Colorado surface water right in those reaches during 31 days in July. Also note that in Reaches 14, 15, 16 replacements to senior surface water rights in Colorado replaced 100% of the stream

depletions caused by pumping affecting those reaches since there was a call by a Colorado surface right in those reaches during 31 days in July.

The remaining depletions shown in Table 3 are the estimated stream depletions caused by irrigation pumping in excess of the pre-Compact entitlements remaining after replacements were made to senior surface water rights in Colorado. Table 3 also shows the estimated depletions to usable Stateline flow, which were calculated using the assumptions in paragraph 5.B of the Resolution, and the replacements to Stateline flows, which were made during the month.

The Lower Arkansas Water Management Association (LAWMA) delivered 789.15 acre-feet from Fort Lyon Canal shares, 475.99 acre-feet from Highland Canal shares and 290.79 acre-feet from Keesee ditch shares during the month of July. Deliveries to the Offset Account in July 2019 by LAWMA totaled 1,555.93 acre-feet. In addition, CWPDA delivered 1,156.26 acre-feet into the Upstream Consumable Subaccount in July 2019 for a total delivery of 2,712.19 acre-feet.

Kansas called for a release of water from the Offset Account beginning on July 9, 2019 and released a total of 4,562.05 acre-feet in July from the account. The release extended beyond July and will be reported in a separate letter to document the entire operation.

As of July 31, 2019, a total of 11,592.98 acre-feet was stored in the Offset Account. The accounting spreadsheet for the Offset Account for the month of July is attached in Enclosure 1.

Please contact me if you have any questions or require additional information.

Sincerely,

Rachel A. Zancanella, P.E.
Assistant Division Engineer
Colorado Division of Water Resources

cc: Kevin Salter
Dale Book
Dan Steuer
Randy Hendrix
Bill Tyner

TABLE 1
Pumping By Rule 3 Irrigation Wells
July 2019

USER NO.	DITCH NAME	AF PUMPED	WELLHEAD DEPL
1	BESSEMER	1146.97	545.72
2	BOOTH ORCHARD	51.94	26.00
3	EXCELSIOR	143.42	71.72
4	COLLIER	0.00	0.00
5	COLORADO	370.03	216.71
6	ROCKY FORD HIGHLINE	287.59	132.57
7	OXFORD	183.75	103.03
8	OTERO	24.71	9.61
9	CATLIN	839.27	614.41
10	FORT LYON US	854.65	337.62
11	ROCKY FORD	46.71	23.38
12	HOLBROOK	343.26	226.34
13	LAS ANIMAS CONSOLIDATED	102.66	45.31
14	BALDWIN-STUBBS	310.17	210.86
15	FORT BENT	122.49	85.65
17	AMITY	1801.42	1084.66
18	LAMAR/MANVEL	428.47	233.23
19	HYDE	50.20	37.65
20	FORT LYON DS	904.29	481.93
21	XY GRAHAM	291.80	194.14
22	BUFFALO	72.24	26.01
24	STATELINE SOLE SOURCE	2791.26	2086.18
601	LAWMA A.P.D.	19.22	15.38
602	LAWMA A.P.D.	5.03	3.77
	Totals	11206.34	6822.96

TABLE 2
Wellhead Depletions from Irrigation Wells below John Martin Reservoir (Acre-Feet)
(Reduced By Pre-Compact Entitlements)
July 2019

USER NUMBER

10	15	16	17	18	19	20	21	22	23	24	Total
0.00	41.31	0.00	1084.66	236.75	37.65	453.97	182.08	26.01	0.00	2086.18	4148.61

TABLE 3
Remaining Depletions to Usable Stateline Flow (Acre-Feet)
July 2019

REACH NUMBER		11	12	13	14	15	16	17	18	21	Sum	
Balance Forward from Previous Month		0	0	0	0	0	0	0	0	0	0	
Remaining Depletion		0.00	0.00	0.00	0.00	0.00	0.00	240.96	1217.41	14.49	1472.87	
Depletion to Usable SL Flow		0.00	0.00	0.00	0.00	0.00	0.00	197.35	997.06	11.87	1206.28	
Replacements												Credit to Next Month
FRY-ARK Return Flows	0	0.00	0.00	0.00	0.00						0.00	0
Fort Lyon Aug Station/Recharge	0	31.74	76.50	9.17	0.00						117.41	0
CO Beef - Lamar Center Farm	0				0						0.00	0
Lamar Center Farm	0.00				0.00	0.00					0.00	436.64
Lamar Granada East/West	0.00								261.69		261.69	0.00
Ft Bent Ditch Shares	0.00				0						0.00	0
Stubbs Direct Flow	0.00								0		0.00	0.00
XY Direct Flow	0.00					179.09					179.09	0.00
Manvel Direct Flow	18.92					87.5					87.50	0.00
Offset Account Release Credit*	11900.35									562.67	562.67	10705.25
Offset Account Transit Loss	0	0.00			0.00			0.00			0.00	0.00
Offset Account Water	0	0									0.00	0
Total Replacements	0	31.74	76.50	9.17	0.00	266.59	0.00	0.00	261.69	562.67	1208.36	
Depletions Carried Forward	0	0	0	0	0	0	0	0	0	0	0.00	

*632.43 acre-feet of SWSP and Augmentation Plan depletion balance due was brought to zero using 632.43 acre-feet of Offset Account release credits.

Enclosure 1

John Martin Offset Accounting for July 2019

OffsetAccount-Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						13965.62
1	54.00	0.00	0.00	0.00	3.71	14015.91
2	55.51	0.00	0.00	0.00	11.98	14059.44
3	75.94	0.00	0.00	0.00	19.59	14115.79
4	649.33	0.00	0.00	0.00	19.67	14745.45
5	646.26	0.00	0.00	0.00	12.57	15379.14
6	82.68	0.00	0.00	0.00	13.02	15448.80
7	55.65	0.00	0.00	0.00	13.07	15491.38
8	56.35	0.00	0.00	0.00	15.95	15531.78
9	74.50	0.00	0.00	198.35	18.06	15389.87
10	67.46	0.00	0.00	198.35	18.69	15240.29
11	44.10	0.00	0.00	198.35	18.09	15067.95
12	59.45	0.00	0.00	198.35	23.81	14905.24
13	63.09	0.00	0.00	198.35	23.52	14746.46
14	63.49	0.00	0.00	198.35	23.32	14588.28
15	46.72	0.00	0.00	198.35	17.81	14418.84
16	46.06	0.00	0.00	198.35	14.63	14251.92
17	54.03	0.00	0.00	198.35	25.28	14082.32
18	31.44	0.00	0.00	198.35	20.57	13894.84
19	17.77	0.00	0.00	198.35	18.92	13695.34
20	20.53	0.00	0.00	198.35	18.77	13498.75
21	35.71	0.00	0.00	198.35	18.97	13317.14
22	47.43	0.00	0.00	198.35	11.44	13154.78
23	46.74	0.00	0.00	198.35	16.16	12987.01
24	34.69	0.00	0.00	198.35	14.59	12808.76
25	26.39	0.00	0.00	198.35	20.84	12615.96
26	37.64	0.00	0.00	198.35	14.13	12441.12
27	41.81	0.00	0.00	198.35	14.23	12270.35
28	64.81	0.00	0.00	198.35	14.07	12122.74
29	43.95	0.00	0.00	198.35	15.01	11953.33
30	28.11	0.00	0.00	198.35	19.94	11763.15
31	40.55	0.00	0.00	198.35	12.37	11592.98
	2712.19	0.00	0.00	4562.05	522.78	

OffsetAccount-Consumable Upstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						1331.29
1	0.00	0.00	0.00	0.00	0.35	1330.94
2	0.00	0.00	0.00	0.00	1.14	1329.80
3	24.09	0.00	0.00	0.00	1.85	1352.04
4	578.13	0.00	0.00	0.00	1.88	1928.29
5	554.04	0.00	0.00	0.00	1.64	2480.69
6	0.00	0.00	0.00	0.00	2.10	2478.59
7	0.00	0.00	0.00	0.00	2.10	2476.49
8	0.00	0.00	0.00	0.00	2.55	2473.94
9	0.00	0.00	0.00	0.00	2.88	2471.06
10	0.00	0.00	0.00	0.00	3.00	2468.06
11	0.00	0.00	0.00	0.00	2.93	2465.13
12	0.00	0.00	0.00	0.00	3.90	2461.23
13	0.00	0.00	0.00	0.00	3.89	2457.34
14	0.00	0.00	0.00	0.00	3.89	2453.45
15	0.00	0.00	0.00	0.00	3.00	2450.45
16	0.00	0.00	0.00	0.00	2.49	2447.96
17	0.00	0.00	0.00	0.00	4.34	2443.62
18	0.00	0.00	0.00	0.00	3.57	2440.05
19	0.00	0.00	0.00	0.00	3.32	2436.73
20	0.00	0.00	0.00	0.00	3.34	2433.39
21	0.00	0.00	0.00	0.00	3.42	2429.97
22	0.00	0.00	0.00	0.00	2.09	2427.88
23	0.00	0.00	0.00	0.00	2.99	2424.89
24	0.00	0.00	0.00	0.00	2.73	2422.16
25	0.00	0.00	0.00	0.00	3.95	2418.21
26	0.00	0.00	0.00	0.00	2.71	2415.50
27	0.00	0.00	0.00	0.00	2.77	2412.73
28	0.00	0.00	0.00	0.00	2.77	2409.96
29	0.00	0.00	0.00	0.00	2.99	2406.97
30	0.00	0.00	0.00	0.00	4.02	2402.95
31	0.00	0.00	0.00	0.00	2.53	2400.42
	1156.26	0.00	0.00	0.00	87.13	

OffsetAccount-Consumable Kansas

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-Consumable Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						13656.71
1	54.00	0.00	0.00	0.00	3.63	13707.08
2	55.51	0.00	0.00	0.00	11.71	13750.88
3	75.94	0.00	0.00	0.00	19.16	13807.66
4	649.33	0.00	0.00	0.00	19.24	14437.75
5	646.26	0.00	0.00	0.00	12.30	15071.71
6	82.68	0.00	0.00	0.00	12.76	15141.63
7	55.65	0.00	0.00	0.00	12.81	15184.47
8	56.35	0.00	0.00	0.00	15.63	15225.19
9	74.50	0.00	0.00	198.35	17.70	15083.64
10	67.46	0.00	0.00	198.35	18.32	14934.43
11	44.10	0.00	0.00	61.48	17.72	14899.33
12	59.45	0.00	0.00	95.31	23.55	14839.92
13	63.09	0.00	0.00	198.35	23.42	14681.24
14	63.49	0.00	0.00	198.35	23.22	14523.16
15	46.72	0.00	0.00	198.35	17.73	14353.80
16	46.06	0.00	0.00	198.35	14.56	14186.95
17	54.03	0.00	0.00	198.35	25.16	14017.47
18	31.44	0.00	0.00	198.35	20.48	13830.08
19	17.77	0.00	0.00	198.35	18.83	13630.67
20	20.53	0.00	0.00	198.35	18.68	13434.17
21	35.71	0.00	0.00	198.35	18.88	13252.65
22	47.43	0.00	0.00	198.35	11.38	13090.35
23	46.74	0.00	0.00	198.35	16.08	12922.66
24	34.69	0.00	0.00	198.35	14.52	12744.48
25	26.39	0.00	0.00	198.35	20.74	12551.78
26	37.64	0.00	0.00	198.35	14.06	12377.01
27	41.81	0.00	0.00	198.35	14.16	12206.31
28	64.81	0.00	0.00	198.35	14.00	12058.77
29	43.95	0.00	0.00	198.35	14.93	11889.44
30	28.11	0.00	0.00	198.35	19.83	11699.37
31	40.55	0.00	0.00	198.35	12.30	11529.27
	2712.19	0.00	0.00	4322.14	517.49	

OffsetAccount-Consumable Downstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						11862.89
1	54.00	0.00	0.00	0.00	3.16	11913.73
2	55.51	0.00	0.00	0.00	10.18	11959.06
3	51.85	0.00	0.00	0.00	16.67	11994.24
4	71.20	0.00	0.00	0.00	16.72	12048.72
5	92.22	0.00	0.00	0.00	10.27	12130.67
6	82.68	0.00	0.00	0.00	10.27	12203.08
7	55.65	0.00	0.00	0.00	10.32	12248.41
8	56.35	0.00	0.00	0.00	12.61	12292.15
9	74.50	0.00	0.00	0.00	14.29	12352.36
10	67.46	0.00	0.00	0.00	15.00	12404.82
11	44.10	0.00	0.00	0.00	14.72	12434.20
12	59.45	0.00	0.00	95.31	19.65	12378.69
13	63.09	0.00	0.00	198.35	19.53	12223.90
14	63.49	0.00	0.00	198.35	19.33	12069.71
15	46.72	0.00	0.00	198.35	14.73	11903.35
16	46.06	0.00	0.00	198.35	12.07	11738.99
17	54.03	0.00	0.00	198.35	20.82	11573.85
18	31.44	0.00	0.00	198.35	16.91	11390.03
19	17.77	0.00	0.00	198.35	15.51	11193.94
20	20.53	0.00	0.00	198.35	15.34	11000.78
21	35.71	0.00	0.00	198.35	15.46	10822.68
22	47.43	0.00	0.00	198.35	9.29	10662.47
23	46.74	0.00	0.00	198.35	13.09	10497.77
24	34.69	0.00	0.00	198.35	11.79	10322.32
25	26.39	0.00	0.00	198.35	16.79	10133.57
26	37.64	0.00	0.00	198.35	11.35	9961.51
27	41.81	0.00	0.00	198.35	11.39	9793.58
28	64.81	0.00	0.00	198.35	11.23	9648.81
29	43.95	0.00	0.00	198.35	11.94	9482.47
30	28.11	0.00	0.00	198.35	15.81	9296.42
31	40.55	0.00	0.00	198.35	9.77	9128.85
	1555.93	0.00	0.00	3863.96	426.01	

OffsetAccount-Consumable Kansas Charge

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						462.53
1	0.00	0.00	0.00	0.00	0.12	462.41
2	0.00	0.00	0.00	0.00	0.39	462.02
3	0.00	0.00	0.00	0.00	0.64	461.38
4	0.00	0.00	0.00	0.00	0.64	460.74
5	0.00	0.00	0.00	0.00	0.39	460.35
6	0.00	0.00	0.00	0.00	0.39	459.96
7	0.00	0.00	0.00	0.00	0.39	459.57
8	0.00	0.00	0.00	0.00	0.47	459.10
9	0.00	0.00	0.00	198.35	0.53	260.22
10	0.00	0.00	0.00	198.35	0.32	61.55
11	0.00	0.00	0.00	61.48	0.07	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	458.18	4.35	

OffsetAccount-ReturnFlow

Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						308.91
1	0.00	0.00	0.00	0.00	0.08	308.83
2	0.00	0.00	0.00	0.00	0.27	308.56
3	0.00	0.00	0.00	0.00	0.43	308.13
4	0.00	0.00	0.00	0.00	0.43	307.70
5	0.00	0.00	0.00	0.00	0.27	307.43
6	0.00	0.00	0.00	0.00	0.26	307.17
7	0.00	0.00	0.00	0.00	0.26	306.91
8	0.00	0.00	0.00	0.00	0.32	306.59
9	0.00	0.00	0.00	0.00	0.36	306.23
10	0.00	0.00	0.00	0.00	0.37	305.86
11	0.00	0.00	0.00	136.87	0.37	168.62
12	0.00	0.00	0.00	103.04	0.26	65.32
13	0.00	0.00	0.00	0.00	0.10	65.22
14	0.00	0.00	0.00	0.00	0.10	65.12
15	0.00	0.00	0.00	0.00	0.08	65.04
16	0.00	0.00	0.00	0.00	0.07	64.97
17	0.00	0.00	0.00	0.00	0.12	64.85
18	0.00	0.00	0.00	0.00	0.09	64.76
19	0.00	0.00	0.00	0.00	0.09	64.67
20	0.00	0.00	0.00	0.00	0.09	64.58
21	0.00	0.00	0.00	0.00	0.09	64.49
22	0.00	0.00	0.00	0.00	0.06	64.43
23	0.00	0.00	0.00	0.00	0.08	64.35
24	0.00	0.00	0.00	0.00	0.07	64.28
25	0.00	0.00	0.00	0.00	0.10	64.18
26	0.00	0.00	0.00	0.00	0.07	64.11
27	0.00	0.00	0.00	0.00	0.07	64.04
28	0.00	0.00	0.00	0.00	0.07	63.97
29	0.00	0.00	0.00	0.00	0.08	63.89
30	0.00	0.00	0.00	0.00	0.11	63.78
31	0.00	0.00	0.00	0.00	0.07	63.71
	0.00	0.00	0.00	239.91	5.29	

OffsetAccount-ReturnFlow

RF Transit Loss

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						66.17
1	0.00	0.00	0.00	0.00	0.02	66.15
2	0.00	0.00	0.00	0.00	0.06	66.09
3	0.00	0.00	0.00	0.00	0.09	66.00
4	0.00	0.00	0.00	0.00	0.09	65.91
5	0.00	0.00	0.00	0.00	0.06	65.85
6	0.00	0.00	0.00	0.00	0.06	65.79
7	0.00	0.00	0.00	0.00	0.06	65.73
8	0.00	0.00	0.00	0.00	0.07	65.66
9	0.00	0.00	0.00	0.00	0.08	65.58
10	0.00	0.00	0.00	0.00	0.08	65.50
11	0.00	0.00	0.00	0.00	0.08	65.42
12	0.00	0.00	0.00	0.00	0.10	65.32
13	0.00	0.00	0.00	0.00	0.10	65.22
14	0.00	0.00	0.00	0.00	0.10	65.12
15	0.00	0.00	0.00	0.00	0.08	65.04
16	0.00	0.00	0.00	0.00	0.07	64.97
17	0.00	0.00	0.00	0.00	0.12	64.85
18	0.00	0.00	0.00	0.00	0.09	64.76
19	0.00	0.00	0.00	0.00	0.09	64.67
20	0.00	0.00	0.00	0.00	0.09	64.58
21	0.00	0.00	0.00	0.00	0.09	64.49
22	0.00	0.00	0.00	0.00	0.06	64.43
23	0.00	0.00	0.00	0.00	0.08	64.35
24	0.00	0.00	0.00	0.00	0.07	64.28
25	0.00	0.00	0.00	0.00	0.10	64.18
26	0.00	0.00	0.00	0.00	0.07	64.11
27	0.00	0.00	0.00	0.00	0.07	64.04
28	0.00	0.00	0.00	0.00	0.07	63.97
29	0.00	0.00	0.00	0.00	0.08	63.89
30	0.00	0.00	0.00	0.00	0.11	63.78
31	0.00	0.00	0.00	0.00	0.07	63.71
	0.00	0.00	0.00	0.00	2.46	

OffsetAccount-ReturnFlow

Return Flow

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						242.74
1	0.00	0.00	0.00	0.00	0.06	242.68
2	0.00	0.00	0.00	0.00	0.21	242.47
3	0.00	0.00	0.00	0.00	0.34	242.13
4	0.00	0.00	0.00	0.00	0.34	241.79
5	0.00	0.00	0.00	0.00	0.21	241.58
6	0.00	0.00	0.00	0.00	0.20	241.38
7	0.00	0.00	0.00	0.00	0.20	241.18
8	0.00	0.00	0.00	0.00	0.25	240.93
9	0.00	0.00	0.00	0.00	0.28	240.65
10	0.00	0.00	0.00	0.00	0.29	240.36
11	0.00	0.00	0.00	136.87	0.29	103.20
12	0.00	0.00	0.00	103.04	0.16	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	239.91	2.83	

COLORADO
Division of Water Resources
Department of Natural Resources
Water Division 2 – Main Office

October 11, 2019

Mr. David Barfield
Kansas Chief Engineer
Kansas Board of Agriculture
901 S. Kansas Avenue, 2nd Floor
Topeka, KS 66612-1283

Ms. Stephanie Gonzales
Recording Secretary
Arkansas River Compact Administration
P.O. Box 1106
Lamar, CO 81052

RE: Monthly Report of Colorado Pumping and Offset Account Operations for August 2019

Dear Mr. Barfield and Ms. Gonzales:

The purpose of this letter is to provide the monthly report required by paragraph 12 of the **Resolution Concerning an Offset Account in John Martin Reservoir for Colorado Pumping as Amended April 30, 1998** ("Resolution"). This letter reports the monthly pumping in excess of Colorado's pre-Compact entitlement, Colorado's monthly accounting of Compact compliance, and the status of water delivered to the Offset Account, all during the month of August, 2019.

Table 1 shows the amount of pumping during the month of August 2019 by irrigation wells pumping from the Valley Fill Aquifer and surficial aquifers along the Arkansas River between Pueblo and the Stateline, as well as the corresponding wellhead depletions, by user group. The wellhead depletions were computed using the presumptive stream depletions in Rule 4.2 of the **AMENDED RULES AND REGULATIONS GOVERNING THE DIVERSION AND USE OF TRIBUTARY GROUND WATER IN THE ARKANSAS RIVER BASIN, COLORADO** ("Rules") approved in Case No. 95CW211.

Table 2 shows the wellhead depletions due to pumping by irrigation wells in the user groups below John Martin Reservoir that are in excess of the pre-Compact entitlements.

Since the replacement of depletions caused by pumping approved pursuant to the Rules that occurred above John Martin Reservoir has been detailed in the accounting previously provided to Kansas, the accounting in this report shows only remaining depletions caused by irrigation pumping in excess of the pre-Compact entitlements for those river reaches where no replacements were made to replace out-of-priority depletions to senior surface water rights in Colorado.

These stream depletions were computed using the wellhead depletions shown in Table 2 with the Ground Water Accounting Model. Please note that in Reaches 11, 12, and 13, replacements to senior surface water rights in Colorado replaced 100% of the stream depletions caused by pumping affecting those reaches since there was a call by a Colorado surface water right in those reaches during 31 days in August. Also note that in Reaches 14,

15, 16 replacements to senior surface water rights in Colorado replaced 55% of the stream depletions caused by pumping affecting those reaches since there was a call by a Colorado surface right in those reaches during 17 days in August.

The remaining depletions shown in Table 3 are the estimated stream depletions caused by irrigation pumping in excess of the pre-Compact entitlements remaining after replacements were made to senior surface water rights in Colorado. Table 3 also shows the estimated depletions to usable Stateline flow, which were calculated using the assumptions in paragraph 5.B of the Resolution, and the replacements to Stateline flows, which were made during the month.

The Lower Arkansas Water Management Association (LAWMA) delivered 623.25 acre-feet from Fort Lyon Canal shares, 183.60 acre-feet from Highland Canal shares and 244.95 acre-feet from Keesee ditch shares during the month of August. Deliveries to the Offset Account in August 2019 by LAWMA totaled 1051.80 acre-feet.

Kansas called for a release of water from the Offset Account beginning on August 9, 2019 and released a total of 4,210.84 acre-feet in August from the account. The release extended beyond August and will be reported in a separate letter to document the entire operation.

As of August 31, 2019, a total of 8,087.68 acre-feet was stored in the Offset Account. The accounting spreadsheet for the Offset Account for the month of August is attached in Enclosure 1.

Please contact me if you have any questions or require additional information.

Sincerely,

Rachel A. Zancanella, P.E.
Assistant Division Engineer
Colorado Division of Water Resources

cc: Kevin Salter
Dale Book
Dan Steuer
Randy Hendrix
Bill Tyner

TABLE 1
Pumping By Rule 3 Irrigation Wells
August 2019

USER NO.	DITCH NAME	AF PUMPED	WELLHEAD DEPL
1	BESSEMER	1583.29	706.33
2	BOOTH ORCHARD	28.32	14.15
3	EXCELSIOR	134.47	67.23
4	COLLIER	7.48	2.69
5	COLORADO	573.60	341.69
6	ROCKY FORD HIGHLINE	601.60	285.43
7	OXFORD	412.90	169.49
8	OTERO	77.78	28.00
9	CATLIN	845.49	542.67
10	FORT LYON US	1460.71	625.54
11	ROCKY FORD	22.49	11.26
12	HOLBROOK	387.00	207.68
13	LAS ANIMAS CONSOLIDATED	140.82	57.80
14	BALDWIN-STUBBS	331.96	233.60
15	FORT BENT	126.05	69.68
17	AMITY	1142.32	729.30
18	LAMAR/MANVEL	519.39	321.61
19	HYDE	30.74	23.06
20	FORT LYON DS	522.91	290.41
21	XY GRAHAM	506.29	331.01
22	BUFFALO	77.79	28.00
24	STATELINE SOLE SOURCE	3528.49	2631.61
601	LAWMA A.P.D.	21.33	17.06
602	LAWMA A.P.D.	4.40	3.30
	Totals	13113.81	7754.55

TABLE 2
Wellhead Depletions from Irrigation Wells below John Martin Reservoir (Acre-Feet)
(Reduced By Pre-Compact Entitlements)
August 2019

USER NUMBER

10	15	16	17	18	19	20	21	22	23	24	Total
0.00	69.68	0.00	729.30	322.60	23.06	252.40	301.17	28.00	0.00	2631.61	4357.82

TABLE 3
Remaining Depletions to Usable Stateline Flow (Acre-Feet)
August 2019

REACH NUMBER		11	12	13	14	15	16	17	18	21	Sum	
Balance Forward from Previous Month		0	0	0	0	0	0	0	0	0	0	
Remaining Depletion		0.00	0.00	0.00	72.64	39.93	53.05	266.68	1503.46	17.58	1953.35	
Depletion to Usable SL Flow		0.00	0.00	0.00	59.49	32.70	43.45	218.41	1231.33	14.40	1599.79	
Replacements												Credit to Next Month
FRY-ARK Return Flows	0.00	0.00	0.00	0.00	0.00						0.00	0
Fort Lyon Aug Station/Recharge	0.00	0.00	0.00	0.00	0.00						0.00	0
CO Beef - Lamar Center Farm	0.00				0						0.00	0
Lamar Center Farm	436.64				37.56	806.54					844.10	0
Lamar Granada East/West	0.00								145.96		145.96	0
Ft Bent Ditch Shares	0.00				0						0.00	0
Stubbs Direct Flow	0.00								0		0.00	0.00
XY Direct Flow	0.00					0					0.00	0.00
Manvel Direct Flow	0.00					87.5					87.50	0.00
Offset Account Release Credit*	10705.25									481.37	481.37	10223.88
Offset Account Transit Loss	0.00	0.00			0.00			44.00			44.00	0
Offset Account Water	0	0									0.00	0
Total Replacements	0	0.00	0.00	0.00	37.56	894.04	0.00	44.00	145.96	481.37	1602.93	
Depletions Carried Forward	0	0	0	0	0	0	0	0	0	0	0.00	

*SWSP and Augmentation Plan depletion balance due was brought to zero using instream credits.

Enclosure 1

John Martin Offset Accounting for August 2019

OffsetAccount-Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						11592.98
1	66.30	0.00	0.00	198.35	10.90	11450.03
2	54.07	0.00	0.00	198.35	15.72	11290.03
3	35.35	0.00	0.00	198.35	15.53	11111.50
4	22.26	0.00	0.00	198.35	15.66	10919.75
5	22.70	0.00	0.00	198.35	12.61	10731.49
6	45.32	0.00	0.00	198.35	12.14	10566.32
7	35.72	0.00	0.00	198.35	16.33	10387.36
8	61.47	0.00	0.00	198.35	14.00	10236.48
9	62.02	0.00	0.00	136.37	7.54	10154.59
10	38.69	0.00	0.00	119.01	7.49	10066.78
11	36.22	0.00	0.00	119.01	7.43	9976.56
12	37.16	0.00	0.00	99.18	11.16	9903.38
13	44.85	0.00	0.00	119.01	16.53	9812.69
14	63.65	0.00	0.00	119.01	10.35	9746.98
15	42.62	0.00	0.00	119.01	13.17	9657.42
16	40.73	0.00	0.00	119.01	9.13	9570.01
17	61.54	0.00	0.00	119.01	9.09	9503.45
18	46.99	0.00	0.00	119.01	8.79	9422.64
19	12.61	0.00	0.00	119.01	13.25	9302.99
20	23.40	0.00	0.00	119.01	9.79	9197.59
21	20.16	0.00	0.00	119.01	9.16	9089.58
22	14.68	0.00	0.00	119.01	11.57	8973.68
23	10.34	0.00	0.00	119.01	10.40	8854.61
24	17.82	0.00	0.00	119.01	10.33	8743.09
25	40.49	0.00	0.00	119.01	10.25	8654.32
26	33.30	0.00	0.00	107.44	9.14	8571.04
27	12.47	0.00	0.00	99.18	9.89	8474.44
28	20.42	0.00	0.00	99.18	8.74	8386.94
29	18.50	0.00	0.00	99.18	11.04	8295.22
30	8.89	0.00	0.00	99.18	9.88	8195.05
31	1.06	0.00	0.00	99.18	9.25	8087.68
	1051.80	0.00	0.00	4210.84	346.26	

OffsetAccount-Consumable Upstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						2400.42
1	0.00	0.00	0.00	0.00	2.26	2398.16
2	0.00	0.00	0.00	0.00	3.29	2394.87
3	0.00	0.00	0.00	0.00	3.29	2391.58
4	0.00	0.00	0.00	0.00	3.37	2388.21
5	0.00	0.00	0.00	0.00	2.76	2385.45
6	0.00	0.00	0.00	0.00	2.70	2382.75
7	0.00	0.00	0.00	0.00	3.68	2379.07
8	0.00	0.00	0.00	0.00	3.21	2375.86
9	0.00	0.00	0.00	0.00	1.75	2374.11
10	0.00	0.00	0.00	0.00	1.75	2372.36
11	0.00	0.00	0.00	0.00	1.75	2370.61
12	0.00	0.00	0.00	0.00	2.65	2367.96
13	0.00	0.00	0.00	0.00	3.95	2364.01
14	0.00	0.00	0.00	0.00	2.49	2361.52
15	0.00	0.00	0.00	0.00	3.19	2358.33
16	0.00	0.00	0.00	0.00	2.23	2356.10
17	0.00	0.00	0.00	0.00	2.24	2353.86
18	0.00	0.00	0.00	0.00	2.18	2351.68
19	0.00	0.00	0.00	0.00	3.31	2348.37
20	0.00	0.00	0.00	0.00	2.47	2345.90
21	0.00	0.00	0.00	0.00	2.34	2343.56
22	0.00	0.00	0.00	0.00	2.98	2340.58
23	0.00	0.00	0.00	0.00	2.71	2337.87
24	0.00	0.00	0.00	0.00	2.73	2335.14
25	0.00	0.00	0.00	0.00	2.74	2332.40
26	0.00	0.00	0.00	0.00	2.46	2329.94
27	0.00	0.00	0.00	0.00	2.69	2327.25
28	0.00	0.00	0.00	0.00	2.40	2324.85
29	0.00	0.00	0.00	0.00	3.06	2321.79
30	0.00	0.00	0.00	0.00	2.77	2319.02
31	0.00	0.00	0.00	0.00	2.62	2316.40
	0.00	0.00	0.00	0.00	84.02	

OffsetAccount-Consumable Kansas

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-Consumable Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						11529.27
1	66.30	0.00	0.00	198.35	10.84	11386.38
2	54.07	0.00	0.00	198.35	15.63	11226.47
3	35.35	0.00	0.00	198.35	15.44	11048.03
4	22.26	0.00	0.00	198.35	15.57	10856.37
5	22.70	0.00	0.00	198.35	12.54	10668.18
6	45.32	0.00	0.00	198.35	12.07	10503.08
7	35.72	0.00	0.00	198.35	16.23	10324.22
8	61.47	0.00	0.00	198.35	13.91	10173.43
9	62.02	0.00	0.00	136.37	7.49	10091.59
10	38.69	0.00	0.00	119.01	7.44	10003.83
11	36.22	0.00	0.00	119.01	7.38	9913.66
12	37.16	0.00	0.00	99.18	11.09	9840.55
13	44.85	0.00	0.00	119.01	16.43	9749.96
14	63.65	0.00	0.00	119.01	10.28	9684.32
15	42.62	0.00	0.00	119.01	13.09	9594.84
16	40.73	0.00	0.00	119.01	9.07	9507.49
17	61.54	0.00	0.00	119.01	9.03	9440.99
18	46.99	0.00	0.00	119.01	8.73	9360.24
19	12.61	0.00	0.00	119.01	13.16	9240.68
20	23.40	0.00	0.00	119.01	9.72	9135.35
21	20.16	0.00	0.00	119.01	9.10	9027.40
22	14.68	0.00	0.00	119.01	11.49	8911.58
23	10.34	0.00	0.00	119.01	10.33	8792.58
24	17.82	0.00	0.00	119.01	10.26	8681.13
25	40.49	0.00	0.00	119.01	10.18	8592.43
26	33.30	0.00	0.00	107.44	9.07	8509.22
27	12.47	0.00	0.00	99.18	9.82	8412.69
28	20.42	0.00	0.00	99.18	8.68	8325.25
29	18.50	0.00	0.00	99.18	10.96	8233.61
30	8.89	0.00	0.00	99.18	9.81	8133.51
31	1.06	0.00	0.00	99.18	9.18	8026.21
	1051.80	0.00	0.00	4210.84	344.02	

OffsetAccount-Consumable Downstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						9128.85
1	66.30	0.00	0.00	198.35	8.58	8988.22
2	54.07	0.00	0.00	198.35	12.34	8831.60
3	35.35	0.00	0.00	198.35	12.15	8656.45
4	22.26	0.00	0.00	198.35	12.20	8468.16
5	22.70	0.00	0.00	198.35	9.78	8282.73
6	45.32	0.00	0.00	198.35	9.37	8120.33
7	35.72	0.00	0.00	198.35	12.55	7945.15
8	61.47	0.00	0.00	198.35	10.70	7797.57
9	62.02	0.00	0.00	136.37	5.74	7717.48
10	38.69	0.00	0.00	119.01	5.69	7631.47
11	36.22	0.00	0.00	119.01	5.63	7543.05
12	37.16	0.00	0.00	99.18	8.44	7472.59
13	44.85	0.00	0.00	119.01	12.48	7385.95
14	63.65	0.00	0.00	119.01	7.79	7322.80
15	42.62	0.00	0.00	119.01	9.90	7236.51
16	40.73	0.00	0.00	119.01	6.84	7151.39
17	61.54	0.00	0.00	119.01	6.79	7087.13
18	46.99	0.00	0.00	119.01	6.55	7008.56
19	12.61	0.00	0.00	119.01	9.85	6892.31
20	23.40	0.00	0.00	119.01	7.25	6789.45
21	20.16	0.00	0.00	119.01	6.76	6683.84
22	14.68	0.00	0.00	119.01	8.51	6571.00
23	10.34	0.00	0.00	119.01	7.62	6454.71
24	17.82	0.00	0.00	119.01	7.53	6345.99
25	40.49	0.00	0.00	119.01	7.44	6260.03
26	33.30	0.00	0.00	107.44	6.61	6179.28
27	12.47	0.00	0.00	99.18	7.13	6085.44
28	20.42	0.00	0.00	99.18	6.28	6000.40
29	18.50	0.00	0.00	99.18	7.90	5911.82
30	8.89	0.00	0.00	99.18	7.04	5814.49
31	1.06	0.00	0.00	99.18	6.56	5709.81
	1051.80	0.00	0.00	4210.84	260.00	

OffsetAccount-Consumable Kansas Charge

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-ReturnFlow

Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						63.71
1	0.00	0.00	0.00	0.00	0.06	63.65
2	0.00	0.00	0.00	0.00	0.09	63.56
3	0.00	0.00	0.00	0.00	0.09	63.47
4	0.00	0.00	0.00	0.00	0.09	63.38
5	0.00	0.00	0.00	0.00	0.07	63.31
6	0.00	0.00	0.00	0.00	0.07	63.24
7	0.00	0.00	0.00	0.00	0.10	63.14
8	0.00	0.00	0.00	0.00	0.09	63.05
9	0.00	0.00	0.00	0.00	0.05	63.00
10	0.00	0.00	0.00	0.00	0.05	62.95
11	0.00	0.00	0.00	0.00	0.05	62.90
12	0.00	0.00	0.00	0.00	0.07	62.83
13	0.00	0.00	0.00	0.00	0.10	62.73
14	0.00	0.00	0.00	0.00	0.07	62.66
15	0.00	0.00	0.00	0.00	0.08	62.58
16	0.00	0.00	0.00	0.00	0.06	62.52
17	0.00	0.00	0.00	0.00	0.06	62.46
18	0.00	0.00	0.00	0.00	0.06	62.40
19	0.00	0.00	0.00	0.00	0.09	62.31
20	0.00	0.00	0.00	0.00	0.07	62.24
21	0.00	0.00	0.00	0.00	0.06	62.18
22	0.00	0.00	0.00	0.00	0.08	62.10
23	0.00	0.00	0.00	0.00	0.07	62.03
24	0.00	0.00	0.00	0.00	0.07	61.96
25	0.00	0.00	0.00	0.00	0.07	61.89
26	0.00	0.00	0.00	0.00	0.07	61.82
27	0.00	0.00	0.00	0.00	0.07	61.75
28	0.00	0.00	0.00	0.00	0.06	61.69
29	0.00	0.00	0.00	0.00	0.08	61.61
30	0.00	0.00	0.00	0.00	0.07	61.54
31	0.00	0.00	0.00	0.00	0.07	61.47
	0.00	0.00	0.00	0.00	2.24	

OffsetAccount-ReturnFlow

RF Transit Loss

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						63.71
1	0.00	0.00	0.00	0.00	0.06	63.65
2	0.00	0.00	0.00	0.00	0.09	63.56
3	0.00	0.00	0.00	0.00	0.09	63.47
4	0.00	0.00	0.00	0.00	0.09	63.38
5	0.00	0.00	0.00	0.00	0.07	63.31
6	0.00	0.00	0.00	0.00	0.07	63.24
7	0.00	0.00	0.00	0.00	0.10	63.14
8	0.00	0.00	0.00	0.00	0.09	63.05
9	0.00	0.00	0.00	0.00	0.05	63.00
10	0.00	0.00	0.00	0.00	0.05	62.95
11	0.00	0.00	0.00	0.00	0.05	62.90
12	0.00	0.00	0.00	0.00	0.07	62.83
13	0.00	0.00	0.00	0.00	0.10	62.73
14	0.00	0.00	0.00	0.00	0.07	62.66
15	0.00	0.00	0.00	0.00	0.08	62.58
16	0.00	0.00	0.00	0.00	0.06	62.52
17	0.00	0.00	0.00	0.00	0.06	62.46
18	0.00	0.00	0.00	0.00	0.06	62.40
19	0.00	0.00	0.00	0.00	0.09	62.31
20	0.00	0.00	0.00	0.00	0.07	62.24
21	0.00	0.00	0.00	0.00	0.06	62.18
22	0.00	0.00	0.00	0.00	0.08	62.10
23	0.00	0.00	0.00	0.00	0.07	62.03
24	0.00	0.00	0.00	0.00	0.07	61.96
25	0.00	0.00	0.00	0.00	0.07	61.89
26	0.00	0.00	0.00	0.00	0.07	61.82
27	0.00	0.00	0.00	0.00	0.07	61.75
28	0.00	0.00	0.00	0.00	0.06	61.69
29	0.00	0.00	0.00	0.00	0.08	61.61
30	0.00	0.00	0.00	0.00	0.07	61.54
31	0.00	0.00	0.00	0.00	0.07	61.47
	0.00	0.00	0.00	0.00	2.24	

OffsetAccount-ReturnFlow

Return Flow

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

COLORADO
Division of Water Resources
Department of Natural Resources
Water Division 2 – Main Office

November 27, 2019

Mr. David Barfield
Kansas Chief Engineer
Kansas Board of Agriculture
901 S. Kansas Avenue, 2nd Floor
Topeka, KS 66612-1283

Ms. Stephanie Gonzales
Recording Secretary
Arkansas River Compact Administration
P.O. Box 1106
Lamar, CO 81052

RE: Monthly Report of Colorado Pumping and Offset Account Operations for September 2019

Dear Mr. Barfield and Ms. Gonzales:

The purpose of this letter is to provide the monthly report required by paragraph 12 of the **Resolution Concerning an Offset Account in John Martin Reservoir for Colorado Pumping as Amended April 30, 1998** ("Resolution"). This letter reports the monthly pumping in excess of Colorado's pre-Compact entitlement, Colorado's monthly accounting of Compact compliance, and the status of water delivered to the Offset Account, all during the month of September, 2019.

Table 1 shows the amount of pumping during the month of September 2019 by irrigation wells pumping from the Valley Fill Aquifer and surficial aquifers along the Arkansas River between Pueblo and the Stateline, as well as the corresponding wellhead depletions, by user group. The wellhead depletions were computed using the presumptive stream depletions in Rule 4.2 of the **AMENDED RULES AND REGULATIONS GOVERNING THE DIVERSION AND USE OF TRIBUTARY GROUND WATER IN THE ARKANSAS RIVER BASIN, COLORADO** ("Rules") approved in Case No. 95CW211.

Table 2 shows the wellhead depletions due to pumping by irrigation wells in the user groups below John Martin Reservoir that are in excess of the pre-Compact entitlements.

Since the replacement of depletions caused by pumping approved pursuant to the Rules that occurred above John Martin Reservoir has been detailed in the accounting previously provided to Kansas, the accounting in this report shows only remaining depletions caused by irrigation pumping in excess of the pre-Compact entitlements for those river reaches where no replacements were made to replace out-of-priority depletions to senior surface water rights in Colorado.

These stream depletions were computed using the wellhead depletions shown in Table 2 with the Ground Water Accounting Model. Please note that in Reaches 11, 12, and 13, replacements to senior surface water rights in Colorado replaced 100% of the stream depletions caused by pumping affecting those reaches since there was a call by a Colorado surface water right in those reaches during 30 days in September. Also note that in Reaches

14, 15, 16 replacements to senior surface water rights in Colorado replaced 43% of the stream depletions caused by pumping affecting those reaches since there was a call by a Colorado surface right in those reaches during 13 days in September.

The remaining depletions shown in Table 3 are the estimated stream depletions caused by irrigation pumping in excess of the pre-Compact entitlements remaining after replacements were made to senior surface water rights in Colorado. Table 3 also shows the estimated depletions to usable Stateline flow, which were calculated using the assumptions in paragraph 5.B of the Resolution, and the replacements to Stateline flows, which were made during the month.

The Lower Arkansas Water Management Association (LAWMA) delivered 322.80 acre-feet from Fort Lyon Canal shares and 261.30 acre-feet from Keesee ditch shares during the month of September. Deliveries to the Offset Account in September 2019 by LAWMA totaled 584.10 acre-feet.

Kansas called for a release of water from the Offset Account beginning on July 9, 2019 and ending September 9th. The total released in September was 892.62 acre-feet.

As of September 30, 2019, a total of 7,481.10 acre-feet was stored in the Offset Account. The accounting spreadsheet for the Offset Account for the month of September is attached in Enclosure 1.

Please contact me if you have any questions or require additional information.

Sincerely,

Rachel A. Zancanella, P.E.
Assistant Division Engineer
Colorado Division of Water Resources

cc: Kevin Salter
Dale Book
Dan Steuer
Randy Hendrix
Bill Tyner

TABLE 1
Pumping By Rule 3 Irrigation Wells
September 2019

USER NO.	DITCH NAME	AF PUMPED	WELLHEAD DEPL
1	BESSEMER	1189	535.72
2	BOOTH ORCHARD	35.11	17.55
3	EXCELSIOR	40.4	20.2
4	COLLIER	40.27	14.49
5	COLORADO	434.39	255.53
6	ROCKY FORD HIGHLINE	427.6	232.37
7	OXFORD	199.33	74.41
8	OTERO	36.12	13.79
9	CATLIN	1383.42	739.55
10	FORT LYON US	1038.38	401.94
11	ROCKY FORD	9.19	4.61
12	HOLBROOK	326.02	191.41
13	LAS ANIMAS CONSOLIDATED	98.23	41.69
14	BALDWIN-STUBBS	231.21	165.67
15	FORT BENT	105.14	62.39
17	AMITY	1055.66	650.13
18	LAMAR/MANVEL	482.32	274.89
19	HYDE	19.2	14.4
20	FORT LYON DS	990.04	512.15
21	XY GRAHAM	340.05	239.2
22	BUFFALO	0.78	0.28
24	STATELINE SOLE SOURCE	2037.84	1585.55
601	LAWMA A.P.D.	0	0
602	LAWMA A.P.D.	13.22	9.92
	Totals	10532.92	6057.84

TABLE 2
Wellhead Depletions from Irrigation Wells below John Martin Reservoir (Acre-Feet)
(Reduced By Pre-Compact Entitlements)
September 2019

USER NUMBER

10	15	16	17	18	19	20	21	22	23	24	Total
0.00	62.39	0.00	650.13	277.78	14.40	243.26	192.44	0.28	0.00	1103.45	2544.13

TABLE 3
Remaining Depletions to Usable Stateline Flow (Acre-Feet)
September 2019

REACH NUMBER		11	12	13	14	15	16	17	18	21	Sum	
Balance Forward from Previous Month		0	0	0	0	0	0	0	0	0	0	
Remaining Depletion		0.00	0.00	0.00	89.94	54.11	69.84	272.17	1575.20	29.03	2090.28	
Depletion to Usable SL Flow		0.00	0.00	0.00	73.66	44.31	57.20	222.90	1290.08	23.78	1711.94	
Replacements												Credit to Next Month
FRY-ARK Return Flows	0	0.00	0.00	0.00	0.00						0.00	0
Fort Lyon Aug Station/Recharge	0	47.99	54.86	16.68	0.00						119.53	0
CO Beef - Lamar Center Farm	0				0						0.00	0.00
Lamar Center Farm	0				6.59	0.00					6.59	0
Lamar Granada East/West	0								0.00		0.00	0.00
Ft Bent Ditch Shares	0				0						0.00	0
Stubbs Direct Flow	0								0		0.00	0
XY Direct Flow	0					0					0.00	0
Manvel Direct Flow	0					33.8					33.80	0
Offset Account Release Credit*	10210.05									1552.49	1552.49	8657.56
Offset Account Transit Loss	0	0.00			0.00			0.00			0.00	0
Offset Account Water	0	0									0.00	0
Total Replacements	0	47.99	54.86	16.68	6.59	33.80	0.00	0.00	0.00	1552.49	1712.41	
Depletions Carried Forward	0	0	0	0	0	0	0	0	0	0.0		

Enclosure 1

John Martin Offset Accounting for September 2019

OffsetAccount-Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						8086.95
1	8.71	0.00	0.00	99.18	9.14	7987.34
2	17.73	0.00	0.00	99.18	9.03	7896.86
3	39.10	0.00	0.00	99.18	10.68	7826.10
4	30.08	0.00	0.00	99.18	13.58	7743.42
5	12.46	0.00	0.00	99.18	7.84	7648.86
6	23.76	0.00	0.00	99.18	11.66	7561.78
7	20.43	0.00	0.00	99.18	11.57	7471.46
8	11.50	0.00	0.00	99.18	11.75	7372.03
9	16.01	0.00	0.00	99.18	6.19	7282.67
10	9.78	0.00	0.00	0.00	12.71	7279.74
11	8.71	0.00	0.00	0.00	7.78	7280.67
12	8.71	0.00	0.00	0.00	6.87	7282.51
13	8.71	0.00	0.00	0.00	8.31	7282.91
14	15.69	0.00	0.00	0.00	8.34	7290.26
15	42.36	0.00	0.00	0.00	8.61	7324.01
16	47.81	0.00	0.00	0.00	14.22	7357.60
17	21.69	0.00	0.00	0.00	8.75	7370.54
18	18.69	0.00	0.00	0.00	13.46	7375.77
19	17.02	0.00	0.00	0.00	9.60	7383.19
20	9.51	0.00	0.00	0.00	9.65	7383.05
21	8.71	0.00	0.00	0.00	9.95	7381.81
22	8.71	0.00	0.00	0.00	9.74	7380.78
23	8.71	0.00	0.00	0.00	7.03	7382.46
24	8.71	0.00	0.00	0.00	8.08	7383.09
25	27.93	0.00	0.00	0.00	8.86	7402.16
26	53.16	0.00	0.00	0.00	10.43	7444.89
27	34.49	0.00	0.00	0.00	9.51	7469.87
28	11.41	0.00	0.00	0.00	9.56	7471.72
29	17.27	0.00	0.00	0.00	9.85	7479.14
30	16.54	0.00	0.00	0.00	14.58	7481.10
	584.10	0.00	0.00	892.62	297.33	

OffsetAccount-Consumable Upstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						2316.40
1	0.00	0.00	0.00	0.00	2.62	2313.78
2	0.00	0.00	0.00	0.00	2.62	2311.16
3	0.00	0.00	0.00	0.00	3.13	2308.03
4	0.00	0.00	0.00	0.00	4.00	2304.03
5	0.00	0.00	0.00	0.00	2.33	2301.70
6	0.00	0.00	0.00	0.00	3.51	2298.19
7	0.00	0.00	0.00	0.00	3.52	2294.67
8	0.00	0.00	0.00	0.00	3.61	2291.06
9	0.00	0.00	0.00	0.00	1.92	2289.14
10	0.00	0.00	0.00	0.00	3.99	2285.15
11	0.00	0.00	0.00	0.00	2.44	2282.71
12	0.00	0.00	0.00	0.00	2.15	2280.56
13	0.00	0.00	0.00	0.00	2.60	2277.96
14	0.00	0.00	0.00	0.00	2.61	2275.35
15	0.00	0.00	0.00	0.00	2.69	2272.66
16	0.00	0.00	0.00	0.00	4.41	2268.25
17	0.00	0.00	0.00	0.00	2.70	2265.55
18	0.00	0.00	0.00	0.00	4.14	2261.41
19	0.00	0.00	0.00	0.00	2.94	2258.47
20	0.00	0.00	0.00	0.00	2.95	2255.52
21	0.00	0.00	0.00	0.00	3.04	2252.48
22	0.00	0.00	0.00	0.00	2.97	2249.51
23	0.00	0.00	0.00	0.00	2.14	2247.37
24	0.00	0.00	0.00	0.00	2.46	2244.91
25	0.00	0.00	0.00	0.00	2.69	2242.22
26	0.00	0.00	0.00	0.00	3.16	2239.06
27	0.00	0.00	0.00	0.00	2.86	2236.20
28	0.00	0.00	0.00	0.00	2.86	2233.34
29	0.00	0.00	0.00	0.00	2.94	2230.40
30	0.00	0.00	0.00	0.00	4.35	2226.05
	0.00	0.00	0.00	0.00	90.35	

OffsetAccount-Consumable Kansas

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-Consumable Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						8025.48
1	8.71	0.00	0.00	99.18	9.07	7925.94
2	17.73	0.00	0.00	99.18	8.96	7835.53
3	39.10	0.00	0.00	99.18	10.60	7764.85
4	30.08	0.00	0.00	99.18	13.47	7682.28
5	12.46	0.00	0.00	99.18	7.78	7587.78
6	23.76	0.00	0.00	99.18	11.57	7500.79
7	20.43	0.00	0.00	99.18	11.48	7410.56
8	11.50	0.00	0.00	99.18	11.65	7311.23
9	16.01	0.00	0.00	99.18	6.14	7221.92
10	9.78	0.00	0.00	0.00	12.60	7219.10
11	8.71	0.00	0.00	0.00	7.72	7220.09
12	8.71	0.00	0.00	0.00	6.81	7221.99
13	8.71	0.00	0.00	0.00	8.24	7222.46
14	15.69	0.00	0.00	0.00	8.27	7229.88
15	42.36	0.00	0.00	0.00	8.54	7263.70
16	47.81	0.00	0.00	0.00	14.10	7297.41
17	21.69	0.00	0.00	0.00	8.68	7310.42
18	18.69	0.00	0.00	0.00	13.35	7315.76
19	17.02	0.00	0.00	0.00	9.52	7323.26
20	9.51	0.00	0.00	0.00	9.57	7323.20
21	8.71	0.00	0.00	0.00	9.87	7322.04
22	8.71	0.00	0.00	0.00	9.66	7321.09
23	8.71	0.00	0.00	0.00	6.97	7322.83
24	8.71	0.00	0.00	0.00	8.01	7323.53
25	27.93	0.00	0.00	0.00	8.79	7342.67
26	53.16	0.00	0.00	0.00	10.35	7385.48
27	34.49	0.00	0.00	0.00	9.43	7410.54
28	11.41	0.00	0.00	0.00	9.48	7412.47
29	17.27	0.00	0.00	0.00	9.77	7419.97
30	16.54	0.00	0.00	0.00	14.46	7422.05
	584.10	0.00	0.00	892.62	294.91	

OffsetAccount-Consumable Downstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						5709.08
1	8.71	0.00	0.00	99.18	6.45	5612.16
2	17.73	0.00	0.00	99.18	6.34	5524.37
3	39.10	0.00	0.00	99.18	7.47	5456.82
4	30.08	0.00	0.00	99.18	9.47	5378.25
5	12.46	0.00	0.00	99.18	5.45	5286.08
6	23.76	0.00	0.00	99.18	8.06	5202.60
7	20.43	0.00	0.00	99.18	7.96	5115.89
8	11.50	0.00	0.00	99.18	8.04	5020.17
9	16.01	0.00	0.00	99.18	4.22	4932.78
10	9.78	0.00	0.00	0.00	8.61	4933.95
11	8.71	0.00	0.00	0.00	5.28	4937.38
12	8.71	0.00	0.00	0.00	4.66	4941.43
13	8.71	0.00	0.00	0.00	5.64	4944.50
14	15.69	0.00	0.00	0.00	5.66	4954.53
15	42.36	0.00	0.00	0.00	5.85	4991.04
16	47.81	0.00	0.00	0.00	9.69	5029.16
17	21.69	0.00	0.00	0.00	5.98	5044.87
18	18.69	0.00	0.00	0.00	9.21	5054.35
19	17.02	0.00	0.00	0.00	6.58	5064.79
20	9.51	0.00	0.00	0.00	6.62	5067.68
21	8.71	0.00	0.00	0.00	6.83	5069.56
22	8.71	0.00	0.00	0.00	6.69	5071.58
23	8.71	0.00	0.00	0.00	4.83	5075.46
24	8.71	0.00	0.00	0.00	5.55	5078.62
25	27.93	0.00	0.00	0.00	6.10	5100.45
26	53.16	0.00	0.00	0.00	7.19	5146.42
27	34.49	0.00	0.00	0.00	6.57	5174.34
28	11.41	0.00	0.00	0.00	6.62	5179.13
29	17.27	0.00	0.00	0.00	6.83	5189.57
30	16.54	0.00	0.00	0.00	10.11	5196.00
	584.10	0.00	0.00	892.62	204.56	

OffsetAccount-Consumable Kansas Charge

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-ReturnFlow

Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						61.47
1	0.00	0.00	0.00	0.00	0.07	61.40
2	0.00	0.00	0.00	0.00	0.07	61.33
3	0.00	0.00	0.00	0.00	0.08	61.25
4	0.00	0.00	0.00	0.00	0.11	61.14
5	0.00	0.00	0.00	0.00	0.06	61.08
6	0.00	0.00	0.00	0.00	0.09	60.99
7	0.00	0.00	0.00	0.00	0.09	60.90
8	0.00	0.00	0.00	0.00	0.10	60.80
9	0.00	0.00	0.00	0.00	0.05	60.75
10	0.00	0.00	0.00	0.00	0.11	60.64
11	0.00	0.00	0.00	0.00	0.06	60.58
12	0.00	0.00	0.00	0.00	0.06	60.52
13	0.00	0.00	0.00	0.00	0.07	60.45
14	0.00	0.00	0.00	0.00	0.07	60.38
15	0.00	0.00	0.00	0.00	0.07	60.31
16	0.00	0.00	0.00	0.00	0.12	60.19
17	0.00	0.00	0.00	0.00	0.07	60.12
18	0.00	0.00	0.00	0.00	0.11	60.01
19	0.00	0.00	0.00	0.00	0.08	59.93
20	0.00	0.00	0.00	0.00	0.08	59.85
21	0.00	0.00	0.00	0.00	0.08	59.77
22	0.00	0.00	0.00	0.00	0.08	59.69
23	0.00	0.00	0.00	0.00	0.06	59.63
24	0.00	0.00	0.00	0.00	0.07	59.56
25	0.00	0.00	0.00	0.00	0.07	59.49
26	0.00	0.00	0.00	0.00	0.08	59.41
27	0.00	0.00	0.00	0.00	0.08	59.33
28	0.00	0.00	0.00	0.00	0.08	59.25
29	0.00	0.00	0.00	0.00	0.08	59.17
30	0.00	0.00	0.00	0.00	0.12	59.05
	0.00	0.00	0.00	0.00	2.42	

OffsetAccount-ReturnFlow

RF Transit Loss

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						61.47
1	0.00	0.00	0.00	0.00	0.07	61.40
2	0.00	0.00	0.00	0.00	0.07	61.33
3	0.00	0.00	0.00	0.00	0.08	61.25
4	0.00	0.00	0.00	0.00	0.11	61.14
5	0.00	0.00	0.00	0.00	0.06	61.08
6	0.00	0.00	0.00	0.00	0.09	60.99
7	0.00	0.00	0.00	0.00	0.09	60.90
8	0.00	0.00	0.00	0.00	0.10	60.80
9	0.00	0.00	0.00	0.00	0.05	60.75
10	0.00	0.00	0.00	0.00	0.11	60.64
11	0.00	0.00	0.00	0.00	0.06	60.58
12	0.00	0.00	0.00	0.00	0.06	60.52
13	0.00	0.00	0.00	0.00	0.07	60.45
14	0.00	0.00	0.00	0.00	0.07	60.38
15	0.00	0.00	0.00	0.00	0.07	60.31
16	0.00	0.00	0.00	0.00	0.12	60.19
17	0.00	0.00	0.00	0.00	0.07	60.12
18	0.00	0.00	0.00	0.00	0.11	60.01
19	0.00	0.00	0.00	0.00	0.08	59.93
20	0.00	0.00	0.00	0.00	0.08	59.85
21	0.00	0.00	0.00	0.00	0.08	59.77
22	0.00	0.00	0.00	0.00	0.08	59.69
23	0.00	0.00	0.00	0.00	0.06	59.63
24	0.00	0.00	0.00	0.00	0.07	59.56
25	0.00	0.00	0.00	0.00	0.07	59.49
26	0.00	0.00	0.00	0.00	0.08	59.41
27	0.00	0.00	0.00	0.00	0.08	59.33
28	0.00	0.00	0.00	0.00	0.08	59.25
29	0.00	0.00	0.00	0.00	0.08	59.17
30	0.00	0.00	0.00	0.00	0.12	59.05
	0.00	0.00	0.00	0.00	2.42	

OffsetAccount-ReturnFlow

Return Flow

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

COLORADO
Division of Water Resources
Department of Natural Resources
Water Division 2 – Main Office

November 27, 2019

Mr. David Barfield
Kansas Chief Engineer
Kansas Board of Agriculture
901 S. Kansas Avenue, 2nd Floor
Topeka, KS 66612-1283

Ms. Stephanie Gonzales
Recording Secretary
Arkansas River Compact Administration
P.O. Box 1106
Lamar, CO 81052

RE: Monthly Report of Colorado Pumping and Offset Account Operations for October 2019

Dear Mr. Barfield and Ms. Gonzales:

The purpose of this letter is to provide the monthly report required by paragraph 12 of the **Resolution Concerning an Offset Account in John Martin Reservoir for Colorado Pumping as Amended April 30, 1998** ("Resolution"). This letter reports the monthly pumping in excess of Colorado's pre-Compact entitlement, Colorado's monthly accounting of Compact compliance, and the status of water delivered to the Offset Account, all during the month of October, 2019.

Table 1 shows the amount of pumping during the month of October 2019 by irrigation wells pumping from the Valley Fill Aquifer and surficial aquifers along the Arkansas River between Pueblo and the Stateline, as well as the corresponding wellhead depletions, by user group. The wellhead depletions were computed using the presumptive stream depletions in Rule 4.2 of the **AMENDED RULES AND REGULATIONS GOVERNING THE DIVERSION AND USE OF TRIBUTARY GROUND WATER IN THE ARKANSAS RIVER BASIN, COLORADO** ("Rules") approved in Case No. 95CW211.

Table 2 shows the wellhead depletions due to pumping by irrigation wells in the user groups below John Martin Reservoir that are in excess of the pre-Compact entitlements.

Since the replacement of depletions caused by pumping approved pursuant to the Rules that occurred above John Martin Reservoir has been detailed in the accounting previously provided to Kansas, the accounting in this report shows only remaining depletions caused by irrigation pumping in excess of the pre-Compact entitlements for those river reaches where no replacements were made to replace out-of-priority depletions to senior surface water rights in Colorado.

These stream depletions were computed using the wellhead depletions shown in Table 2 with the Ground Water Accounting Model. Please note that in Reaches 11, 12, and 13, replacements to senior surface water rights in Colorado replaced 77% of the stream depletions caused by pumping affecting those reaches since there was a call by a Colorado surface water right in those reaches during 24 days in October. Also note that in Reaches 14,

15, 16 replacements to senior surface water rights in Colorado replaced 39% of the stream depletions caused by pumping affecting those reaches since there was a call by a Colorado surface right in those reaches during 12 days in October.

The remaining depletions shown in Table 3 are the estimated stream depletions caused by irrigation pumping in excess of the pre-Compact entitlements remaining after replacements were made to senior surface water rights in Colorado. Table 3 also shows the estimated depletions to usable Stateline flow, which were calculated using the assumptions in paragraph 5.B of the Resolution, and the replacements to Stateline flows, which were made during the month.

The Lower Arkansas Water Management Association (LAWMA) delivered 191.52 acre-feet from Fort Lyon Canal shares and 215.67 acre-feet from Keesee ditch shares during the month of October. Deliveries to the Offset Account in October 2019 by LAWMA totaled 407.19 acre-feet.

As of October 31, 2019, a total of 7,708.32 acre-feet was stored in the Offset Account. The accounting spreadsheet for the Offset Account for the month of October is attached in Enclosure 1.

Please contact me if you have any questions or require additional information.

Sincerely,

Rachel A. Zancanella, P.E.
Assistant Division Engineer
Colorado Division of Water Resources

cc: Kevin Salter
Dale Book
Dan Steuer
Randy Hendrix
Bill Tyner

TABLE 1
Pumping By Rule 3 Irrigation Wells
October 2019

USER NO.	DITCH NAME	AF PUMPED	WELLHEAD DEPL
1	BESSEMER	192.83	102.93
2	BOOTH ORCHARD	4.49	2.48
3	EXCELSIOR	0.02	0.01
4	COLLIER	10.95	3.94
5	COLORADO	140.14	81.16
6	ROCKY FORD HIGHLINE	185.33	138.48
7	OXFORD	42.83	17.21
8	OTERO	6.98	2.51
9	CATLIN	698.94	341.2
10	FORT LYON US	101.31	45.96
11	ROCKY FORD	0.04	0.02
12	HOLBROOK	36.17	13.88
13	LAS ANIMAS CONSOLIDATED	24.24	11.24
14	BALDWIN-STUBBS	84.84	79.22
15	FORT BENT	3.63	1.92
17	AMITY	381.79	208.75
18	LAMAR/MANVEL	162.23	104.69
19	HYDE	12.65	9.49
20	FORT LYON DS	133.67	64.82
21	XY GRAHAM	209.43	126.21
22	BUFFALO	0.06	0.02
24	STATELINE SOLE SOURCE	625.84	497.11
601	LAWMA A.P.D.	0	0
602	LAWMA A.P.D.	0	0
	Totals	3058.41	1853.25

TABLE 2
Wellhead Depletions from Irrigation Wells below John Martin Reservoir (Acre-Feet)
(Reduced By Pre-Compact Entitlements)
October 2019

USER NUMBER

10	15	16	17	18	19	20	21	22	23	24	Total
0.00	1.92	0.00	208.75	108.99	9.49	58.31	66.90	0.02	0.00	309.85	764.23

TABLE 3
Remaining Depletions to Usable Stateline Flow (Acre-Feet)
October 2019

REACH NUMBER		11	12	13	14	15	16	17	18	21	Sum	
Balance Forward from Previous Month		0	0	0	0	0	0	0	0	0	0	
Remaining Depletion		4.45	8.85	43.86	90.13	60.16	74.48	251.68	1278.74	44.66	1857.01	
Depletion to Usable SL Flow		3.64	7.24	35.92	73.82	49.27	61.00	206.13	1047.29	36.58	1520.89	
Replacements												Credit to Next Month
FRY-ARK Return Flows	0	0.00	0.00	0.00	0.00						0.00	0
Fort Lyon Aug Station/Recharge	0	0.00	0.00	21.16	0.00						21.16	0
CO Beef - Lamar Center Farm	0				0						0.00	0
Lamar Center Farm	0				62.13	104.96					167.09	0
Lamar Granada East/West									0.00		0.00	0.00
Ft Bent Ditch Shares	0				0						0.00	0
Stubbs Direct Flow	0								0		0.00	0
XY Direct Flow	0					0					0.00	0
Manvel Direct Flow	0					0					0.00	0
Offset Account Release Credit*	8657.56									1332.67	1332.67	7185.82
Offset Account Transit Loss	0	0.00			0.00			0.00			0.00	0
Offset Account Water	0	0									0.00	0
Total Replacements	0	0.00	0.00	21.16	62.13	104.96	0.00	0.00	0.00	1332.67	1520.93	
Depletions Carried Forward	0	0	0	0	0	0	0	0	0	0	0.00	

*SWSP and Augmentation Plan depletion balance due was brought to zero using 139.07 acre-feet from the Offset Account

Enclosure 1

John Martin Offset Accounting for October 2019

OffsetAccount-Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						7481.10
1	8.23	0.00	0.00	0.00	4.44	7484.89
2	7.70	0.00	0.00	0.00	7.07	7485.52
3	7.70	0.00	0.00	0.00	3.14	7490.08
4	16.37	0.00	0.00	0.00	5.52	7500.93
5	31.48	0.00	0.00	0.00	5.54	7526.87
6	24.58	0.00	0.00	0.00	5.57	7545.88
7	7.70	0.00	0.00	0.00	5.35	7548.23
8	16.32	0.00	0.00	0.00	6.71	7557.84
9	22.07	0.00	0.00	0.00	7.55	7572.36
10	13.77	0.00	0.00	0.00	4.87	7581.26
11	14.15	0.00	0.00	0.00	4.90	7590.51
12	14.51	0.00	0.00	0.00	4.91	7600.11
13	8.42	0.00	0.00	0.00	4.93	7603.60
14	7.70	0.00	0.00	0.00	4.94	7606.36
15	7.70	0.00	0.00	0.00	8.24	7605.82
16	7.70	0.00	0.00	0.00	0.83	7612.69
17	7.70	0.00	0.00	0.00	10.72	7609.67
18	7.70	0.00	0.00	0.00	8.79	7608.58
19	7.70	0.00	0.00	0.00	9.07	7607.21
20	7.70	0.00	0.00	0.00	9.06	7605.85
21	7.70	0.00	0.00	0.00	6.32	7607.23
22	7.70	0.00	0.00	0.00	6.05	7608.88
23	7.70	0.00	0.00	0.00	4.95	7611.63
24	7.70	0.00	0.00	0.00	5.50	7613.83
25	7.70	0.00	0.00	0.00	4.96	7616.57
26	31.24	0.00	0.00	0.00	4.96	7642.85
27	46.96	0.00	0.00	0.00	4.98	7684.83
28	25.01	0.00	0.00	0.00	5.01	7704.83
29	3.19	0.00	0.00	0.00	5.02	7703.00
30	7.99	0.00	0.00	0.00	5.03	7705.96
31	7.40	0.00	0.00	0.00	5.04	7708.32
	407.19	0.00	0.00	0.00	179.97	

OffsetAccount-Consumable Upstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						2226.05
1	0.00	0.00	0.00	0.00	1.32	2224.73
2	0.00	0.00	0.00	0.00	2.10	2222.63
3	0.00	0.00	0.00	0.00	0.93	2221.70
4	0.00	0.00	0.00	0.00	1.64	2220.06
5	0.00	0.00	0.00	0.00	1.64	2218.42
6	0.00	0.00	0.00	0.00	1.64	2216.78
7	0.00	0.00	0.00	0.00	1.57	2215.21
8	0.00	0.00	0.00	0.00	1.97	2213.24
9	0.00	0.00	0.00	0.00	2.21	2211.03
10	0.00	0.00	0.00	0.00	1.42	2209.61
11	0.00	0.00	0.00	0.00	1.43	2208.18
12	0.00	0.00	0.00	0.00	1.43	2206.75
13	0.00	0.00	0.00	0.00	1.43	2205.32
14	0.00	0.00	0.00	0.00	1.43	2203.89
15	0.00	0.00	0.00	0.00	2.39	2201.50
16	0.00	0.00	0.00	0.00	0.24	2201.26
17	0.00	0.00	0.00	0.00	3.10	2198.16
18	0.00	0.00	0.00	0.00	2.54	2195.62
19	0.00	0.00	0.00	0.00	2.62	2193.00
20	0.00	0.00	0.00	0.00	2.61	2190.39
21	0.00	0.00	0.00	0.00	1.82	2188.57
22	0.00	0.00	0.00	0.00	1.74	2186.83
23	0.00	0.00	0.00	0.00	1.42	2185.41
24	0.00	0.00	0.00	0.00	1.58	2183.83
25	0.00	0.00	0.00	0.00	1.42	2182.41
26	0.00	0.00	0.00	0.00	1.42	2180.99
27	0.00	0.00	0.00	0.00	1.42	2179.57
28	0.00	0.00	0.00	0.00	1.42	2178.15
29	0.00	0.00	0.00	0.00	1.42	2176.73
30	0.00	0.00	0.00	0.00	1.42	2175.31
31	0.00	0.00	0.00	0.00	1.42	2173.89
	0.00	0.00	0.00	0.00	52.16	

OffsetAccount-Consumable Kansas

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-Consumable Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						7422.05
1	8.23	0.00	0.00	0.00	4.40	7425.88
2	7.70	0.00	0.00	0.00	7.01	7426.57
3	7.70	0.00	0.00	0.00	3.12	7431.15
4	16.37	0.00	0.00	0.00	5.48	7442.04
5	31.48	0.00	0.00	0.00	5.50	7468.02
6	24.58	0.00	0.00	0.00	5.53	7487.07
7	7.70	0.00	0.00	0.00	5.31	7489.46
8	16.32	0.00	0.00	0.00	6.66	7499.12
9	22.07	0.00	0.00	0.00	7.49	7513.70
10	13.77	0.00	0.00	0.00	4.83	7522.64
11	14.15	0.00	0.00	0.00	4.86	7531.93
12	14.51	0.00	0.00	0.00	4.87	7541.57
13	8.42	0.00	0.00	0.00	4.89	7545.10
14	7.70	0.00	0.00	0.00	4.90	7547.90
15	7.70	0.00	0.00	0.00	8.18	7547.42
16	7.70	0.00	0.00	0.00	0.82	7554.30
17	7.70	0.00	0.00	0.00	10.64	7551.36
18	7.70	0.00	0.00	0.00	8.72	7550.34
19	7.70	0.00	0.00	0.00	9.00	7549.04
20	7.70	0.00	0.00	0.00	8.99	7547.75
21	7.70	0.00	0.00	0.00	6.27	7549.18
22	7.70	0.00	0.00	0.00	6.00	7550.88
23	7.70	0.00	0.00	0.00	4.91	7553.67
24	7.70	0.00	0.00	0.00	5.46	7555.91
25	7.70	0.00	0.00	0.00	4.92	7558.69
26	31.24	0.00	0.00	0.00	4.92	7585.01
27	46.96	0.00	0.00	0.00	4.94	7627.03
28	25.01	0.00	0.00	0.00	4.97	7647.07
29	3.19	0.00	0.00	0.00	4.98	7645.28
30	7.99	0.00	0.00	0.00	4.99	7648.28
31	7.40	0.00	0.00	0.00	5.00	7650.68
	407.19	0.00	0.00	0.00	178.56	

OffsetAccount-Consumable Downstream

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						5196.00
1	8.23	0.00	0.00	0.00	3.08	5201.15
2	7.70	0.00	0.00	0.00	4.91	5203.94
3	7.70	0.00	0.00	0.00	2.19	5209.45
4	16.37	0.00	0.00	0.00	3.84	5221.98
5	31.48	0.00	0.00	0.00	3.86	5249.60
6	24.58	0.00	0.00	0.00	3.89	5270.29
7	7.70	0.00	0.00	0.00	3.74	5274.25
8	16.32	0.00	0.00	0.00	4.69	5285.88
9	22.07	0.00	0.00	0.00	5.28	5302.67
10	13.77	0.00	0.00	0.00	3.41	5313.03
11	14.15	0.00	0.00	0.00	3.43	5323.75
12	14.51	0.00	0.00	0.00	3.44	5334.82
13	8.42	0.00	0.00	0.00	3.46	5339.78
14	7.70	0.00	0.00	0.00	3.47	5344.01
15	7.70	0.00	0.00	0.00	5.79	5345.92
16	7.70	0.00	0.00	0.00	0.58	5353.04
17	7.70	0.00	0.00	0.00	7.54	5353.20
18	7.70	0.00	0.00	0.00	6.18	5354.72
19	7.70	0.00	0.00	0.00	6.38	5356.04
20	7.70	0.00	0.00	0.00	6.38	5357.36
21	7.70	0.00	0.00	0.00	4.45	5360.61
22	7.70	0.00	0.00	0.00	4.26	5364.05
23	7.70	0.00	0.00	0.00	3.49	5368.26
24	7.70	0.00	0.00	0.00	3.88	5372.08
25	7.70	0.00	0.00	0.00	3.50	5376.28
26	31.24	0.00	0.00	0.00	3.50	5404.02
27	46.96	0.00	0.00	0.00	3.52	5447.46
28	25.01	0.00	0.00	0.00	3.55	5468.92
29	3.19	0.00	0.00	0.00	3.56	5468.55
30	7.99	0.00	0.00	0.00	3.57	5472.97
31	7.40	0.00	0.00	0.00	3.58	5476.79
	407.19	0.00	0.00	0.00	126.40	

OffsetAccount-Consumable Kansas Charge

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	

OffsetAccount-ReturnFlow

Totals

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						59.05
1	0.00	0.00	0.00	0.00	0.04	59.01
2	0.00	0.00	0.00	0.00	0.06	58.95
3	0.00	0.00	0.00	0.00	0.02	58.93
4	0.00	0.00	0.00	0.00	0.04	58.89
5	0.00	0.00	0.00	0.00	0.04	58.85
6	0.00	0.00	0.00	0.00	0.04	58.81
7	0.00	0.00	0.00	0.00	0.04	58.77
8	0.00	0.00	0.00	0.00	0.05	58.72
9	0.00	0.00	0.00	0.00	0.06	58.66
10	0.00	0.00	0.00	0.00	0.04	58.62
11	0.00	0.00	0.00	0.00	0.04	58.58
12	0.00	0.00	0.00	0.00	0.04	58.54
13	0.00	0.00	0.00	0.00	0.04	58.50
14	0.00	0.00	0.00	0.00	0.04	58.46
15	0.00	0.00	0.00	0.00	0.06	58.40
16	0.00	0.00	0.00	0.00	0.01	58.39
17	0.00	0.00	0.00	0.00	0.08	58.31
18	0.00	0.00	0.00	0.00	0.07	58.24
19	0.00	0.00	0.00	0.00	0.07	58.17
20	0.00	0.00	0.00	0.00	0.07	58.10
21	0.00	0.00	0.00	0.00	0.05	58.05
22	0.00	0.00	0.00	0.00	0.05	58.00
23	0.00	0.00	0.00	0.00	0.04	57.96
24	0.00	0.00	0.00	0.00	0.04	57.92
25	0.00	0.00	0.00	0.00	0.04	57.88
26	0.00	0.00	0.00	0.00	0.04	57.84
27	0.00	0.00	0.00	0.00	0.04	57.80
28	0.00	0.00	0.00	0.00	0.04	57.76
29	0.00	0.00	0.00	0.00	0.04	57.72
30	0.00	0.00	0.00	0.00	0.04	57.68
31	0.00	0.00	0.00	0.00	0.04	57.64
	0.00	0.00	0.00	0.00	1.41	

OffsetAccount-ReturnFlow

RF Transit Loss

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						59.05
1	0.00	0.00	0.00	0.00	0.04	59.01
2	0.00	0.00	0.00	0.00	0.06	58.95
3	0.00	0.00	0.00	0.00	0.02	58.93
4	0.00	0.00	0.00	0.00	0.04	58.89
5	0.00	0.00	0.00	0.00	0.04	58.85
6	0.00	0.00	0.00	0.00	0.04	58.81
7	0.00	0.00	0.00	0.00	0.04	58.77
8	0.00	0.00	0.00	0.00	0.05	58.72
9	0.00	0.00	0.00	0.00	0.06	58.66
10	0.00	0.00	0.00	0.00	0.04	58.62
11	0.00	0.00	0.00	0.00	0.04	58.58
12	0.00	0.00	0.00	0.00	0.04	58.54
13	0.00	0.00	0.00	0.00	0.04	58.50
14	0.00	0.00	0.00	0.00	0.04	58.46
15	0.00	0.00	0.00	0.00	0.06	58.40
16	0.00	0.00	0.00	0.00	0.01	58.39
17	0.00	0.00	0.00	0.00	0.08	58.31
18	0.00	0.00	0.00	0.00	0.07	58.24
19	0.00	0.00	0.00	0.00	0.07	58.17
20	0.00	0.00	0.00	0.00	0.07	58.10
21	0.00	0.00	0.00	0.00	0.05	58.05
22	0.00	0.00	0.00	0.00	0.05	58.00
23	0.00	0.00	0.00	0.00	0.04	57.96
24	0.00	0.00	0.00	0.00	0.04	57.92
25	0.00	0.00	0.00	0.00	0.04	57.88
26	0.00	0.00	0.00	0.00	0.04	57.84
27	0.00	0.00	0.00	0.00	0.04	57.80
28	0.00	0.00	0.00	0.00	0.04	57.76
29	0.00	0.00	0.00	0.00	0.04	57.72
30	0.00	0.00	0.00	0.00	0.04	57.68
31	0.00	0.00	0.00	0.00	0.04	57.64
	0.00	0.00	0.00	0.00	1.41	

OffsetAccount-ReturnFlow

Return Flow

Day	Inflow	TransIn	TransOut	Rel.	Evap	Balance
						0.00
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	