

ANNUAL REPORT
OF THE
OPERATIONS SECRETARY

CONCERNING THE
OPERATION OF JOHN MARTIN RESERVOIR

1985

SUBMITTED TO THE
OPERATIONS COMMITTEE
ARKANSAS RIVER COMPACT ADMINISTRATION

NOVEMBER 15, 1985

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FINANCIAL STATUS
OF
OPERATIONS SECRETARY

The Operations Secretary received \$6100 from the Compact and this was expended on the following items:

Customer Service Plan--Brother Typewriter, Systel Main Unit and Pers Mod/Bro-CE65	\$ 420
Post Memory Terminals (2)	1198
TI-765-20K (1)	599
Office Supplies	197 <i>163</i>
John Eberwein, Computer Programmer	<u>3720</u>
	\$6134*

*Overspent by \$34.00.



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 GENERAL OFFICES
 1400 SO. COLORADO BLVD.
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 DENVER, CO. 80222
 (303) 759-5440

INVOICE

DATE	TERMS	NUMBER
05/20/85	NET 10 DAYS	250755

MAIL REMITTANCE TO: P.O. BOX 22855
 DENVER, CO 80222

PAGE 1 OF 1

DELIVERED TO

DENVER
 WGS - FORT COLLINS
 EBLO - CHEYENNE

TO

ARKANSAS RIVER COMPACT ADMIN
 ACCOUNTS PAYABLE
 906 WEST NORTHERN AVENUE
 PUEBLO, CO 81004

SALES REPRESENTATIVE	BR	DIV	CUSTOMER ORDER NUMBER	LEWAN ORDER	CODE	VIA	EB
EBLO SVC	07	81		SP12240	2	20	CJK

RES	PED	B/O	UNIT	PRODUCT NUMBER	DESCRIPTION	UNIT PRICE	AMOUNT
				BRO-EM100	CUSTOMER SERVICE PLAN 07/01/85 TO 07/01/86		105.00
				SYS-I/MU	BROTHER TYPEWRITER SN 31836045 ✓		290.00
				SYS-PH/CE65	SYSTEL MAIN UNIT SN 2942 ✓ PERS MOD/BRO-CE65 ✓ SN 27233		25.00

NOTE: REFERENCE YOUR ACCT. NO. 16234
 INVOICE NO. 250755 ON ALL PAYMENTS, CALLS,
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MEMO: FOR ALL YOUR OFFICE MACHINE SUPPLIES
 CALL YOUR TELEMARKETING REPRESENTATIVE
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06/30/85	NET 10 DAYS	262610

DENVER
 SPRINGS - FORT COLLINS
 PUEBLO - CHEYENNE

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PAGE 1 OF 1

AD TO

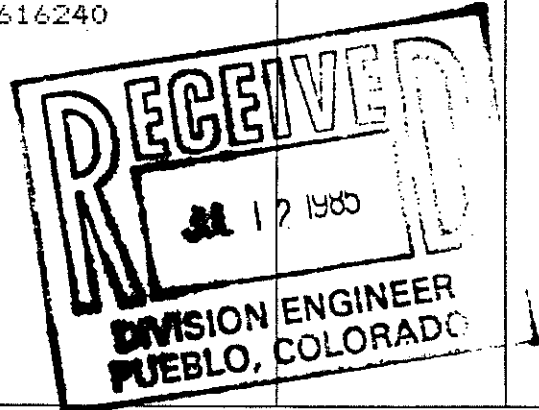
DELIVERED TO

ARKANSAS RIVER COMPACT ADMIN
 ACCOUNTS PAYABLE
 1906 WEST NORTHERN AVENUE
 PUEBLO, CO 81004

SALES REPRESENTATIVE	BR	DIV	CUSTOMER ORDER NUMBER	LEWAN ORDER	CODE	VIA	EB
HAWKINSON, P	05	51		L211090		2	620

QUANTITIES		UNIT	PRODUCT NUMBER	DESCRIPTION	UNIT PRICE	AMOUNT
ORDERED	B/O					
2	0	EA	TI-765-40K	PORT MEMORY TERMINAL SN 0476618038	599.00	1198.00
1	0	EA	MISC	TI-765-20K SN 0476617977 SN 0476616240		599.00

*paid
 ch# 708
 7-24-85
 MS*



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0.00%	0.00		1797.00
SALES TAX	DELIVERY	TOTAL AMOUNT	

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1400 So. Colorado Blvd.
Denver, CO 80222
759-5440

SALES ORDER

1243 So. Colorado Blvd.
Denver, CO 80222
759-5211

6300 E. Evans Ave.
Denver, CO 80222
759-9633

2008 So. University Blvd.
Denver, CO 80222
778-0202

1830 Palmer Park Blvd.
Colo. Springs, CO 80909
635-8100

1608 So. College Ave.
Ft. Collins, CO 80525
484-8822

2525 Arapahoe Ave. #A-3
Boulder, CO 80302
447-0890

156 West 29th Street
Pueblo, CO 81008
542-6361

1780 Westland Road
Cheyenne, WY 82001
635-0503

ORDER NUMBER	DATE	BR	DIV	NAME	NUMBER	SALES REPRESENTATIVE
	7-24-85	0744		mc Cray	375	L 222266
CUST. NUMBER		PHONE				
14756		542-3368				
DELIVERED TO						
Resources						
SHIPPING ADDRESS						
1906 W. Northern						
STATE	ZIP CODE	CITY	STATE	ZIP CODE	SHIPPED VIA	
		Pueblo Co		81004	6	

QUANTITIES	UNIT	PRODUCT NUMBER	DESCRIPTION	UNIT PRICE	AMOUNT
1	EA	WT-60B	2 hole punch		21.95
1	EA	WT-60N	2 hole punch		21.95
2	EA	CP-Supplier	12" scissors	10.80	21.60
1	EA	BK-DTOD-SMK	Data Defender		26.95
2	EA	CEA-F46	Ribbon	12.08	24.16
					92.44

PICK	MEMO:	CHARGE	SUB-TOTAL
C	Ribbons on order to be delivered		92.44
PACK		CASH	SALES TAXES
		CC	CODE RATE
		CHECK	33 0
		NO.	712
		DELIVERY	
		UNIT RATE	

CUSTOMER SERVICE PLAN	FROM	THRU	DATE RECEIVED	TOTAL
				92.44
Thank You			ACCEPTED BY:	BATCH BCP
			S. Man... (signature)	

This agreement is subject to the terms and conditions as set forth herein and on the reverse side hereof, which the customer acknowledges having read and accepted.

RECEIVED DIVISION ENGINEER

CUSTOMER COPY



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 Denver, CO 80222

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 Denver, CO 80222
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SALES TAXES

- 1243 So. Colorado Blvd.
Denver, CO 80222
759-5211
- 6300 E. Evans Ave.
Denver, CO 80222
759-9633
- 2008 So. University Blvd.
Denver, CO 80222
778-0202
- 1830 Palmer Park Blvd.
Colo. Springs, CO 80909
635-8100
- 1608 So. College Ave.
Ft. Collins, CO 80525
484-8822
- 2525 Arapahoe Ave. #A-3
Boulder, CO 80302
447-0890
- 156 West 29th Street
Pueblo, CO 81008
542-6361
- 1780 Westland Road
Cheyenne, WY 82001
635-0503

ORDER NUMBER	DATE	BR	DIV	NAME	NUMBER	SALES REPRESENTATIVE
	7-24-85	0746		mc Cray	375	L 222401
- Div. of Water Resources			CUST. NUMBER	PHONE		
			14756	542-3368	<input checked="" type="checkbox"/> SALE <input type="checkbox"/> TRIAL <input type="checkbox"/> LOAN	
			DELIVERED TO			
			SHIPPING ADDRESS			
			1906 W. Northern			
STATE	ZIP CODE	CITY	STATE	ZIP CODE	SHIPPED VIA	
		Pueblo CO		81004	6	

QUANTITIES	UNIT	PRODUCT NUMBER	DESCRIPTION	UNIT PRICE	AMOUNT
1	EA	GEN-T466	Ribbons	70.56	70.56
<div style="border: 2px solid black; padding: 10px; width: fit-content; margin: 0 auto;"> <h1 style="margin: 0;">RECEIVED</h1> <p style="margin: 5px 0;">AUG 7 1985</p> <p style="margin: 5px 0;">DIVISION ENGINEER</p> <p style="margin: 5px 0;">PUEBLO, COLORADO</p> </div>					

	PICK	MEMO:	CHARGE	-SUB - TOTAL	70.56															
			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td rowspan="4" style="text-align: center; vertical-align: middle;">R E C E I V E D</td> <td>CASH</td> <td colspan="2" style="text-align: center;">SALES TAXES</td> </tr> <tr> <td>CC</td> <td>CODE</td> <td>RATE</td> </tr> <tr> <td>CHECK</td> <td>X</td> <td>33</td> <td>0</td> </tr> <tr> <td>NO.</td> <td>712</td> <td colspan="2">DELIVERY</td> </tr> </table>	R E C E I V E D	CASH	SALES TAXES		CC	CODE	RATE	CHECK	X	33	0	NO.	712	DELIVERY			
R E C E I V E D	CASH	SALES TAXES																		
	CC	CODE	RATE																	
	CHECK	X	33		0															
	NO.	712	DELIVERY																	
CUSTOMER SERVICE PLAN: FROM, THRU																				
ORDERED BY	Thank You		DATE RECEIVED	TOTAL																
					70.56															
This agreement is subject to the terms and conditions as set forth herein and on the reverse side hereof, which the customer acknowledges having read and accepted.				ACCEPTED BY:	BATCH BCP															
				E. M. Miller																

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WINTER STORAGE

November 1, 1984 - March 31, 1985

Winter storage in John Martin Reservoir began at 0001 hours, November 1, 1984. At that time, the Conservation Pool was empty. The reservoir contained 204,907.00 A.F. in various accounts. Winter storage ended at 2400 hours, March 31, 1985. During this period, a total of 149,194.91 A.F. of winter water was stored. This water was allocated to various accounts as specified in the Operating Plan adopted by the Arkansas River Compact Administration on April 14, 1980.

The following tables reflect the status of the various accounts during winter storage.

SUMMER STORAGE

The summer storage season started at 0001 hours, April 1, 1985. At that time, the reservoir contained 343,323.00 A.F. The Conservation Pool contained 115,762.82 A.F., the Recreation Pool contained 12,814.74 A.F. and Agreement Accounts contained 214,745.44 A.F.

During the summer season, the contents of the reservoir exceeded the Conservation Pool capacity. This created the necessity to spill water from the various agreement accounts to prevent invasion of the Flood Pool. Because of curtailment of outflow to facilitate a search for a drowning victim downstream, however, storage was forced in the Flood Pool from June 16 to June 23. The body of the drowning victim was located the morning of June 18.

Total evaporation from the reservoir for the 1985 water year was 49,620.00 A.F.

The following tables reflect the status of the various accounts during the summer storage season.

TABLE I

Allocation of Reservoir Contents
in acre feet
@ 2400 hours, March 31, 1985

Total Contents	Agreement Accounts	Compact Water	Winter Water	Permanent Recreation Pool
343323.00	214745.44	115762.82	0	12814.74

TABLE II

Compact Water

Month	Contents Beg. of Month A.F.	Inflow A.F.	Evaporation A.F.	Release A.F.	Contents End of Month A.F.
November	0	27587.09	130.87	0	27456.22
December	27456.22	10863.00	180.43	0	38138.79
January	38138.79	21888.00	180.24	0	59846.55
February	59846.55	40434.00	17.48	0	100263.07
March	100263.07	20327.02	1363.98	3463.29*	115762.82
TOTALS		121099.11	1873.00	3463.29	

1983-84 Winter stored water run from Pueblo Reservoir to Conservation Pool, then transferred to Las Animas Consolidated Article III account.

TABLE III

Winter Water

Month	Contents Beg. of Month A.F.	Inflow A.F.	Evaporation A.F.	Release A.F.	Contents End of Month A.F.
November	0	1554.00	1.13	0	1552.87
December	1552.87	4537.00	21.36	0	6068.51
January	6068.51	10493.00	36.05	0	16525.46
February	16525.46	11715.00	4.97	0	28235.49
March	28235.49	1313.00	359.44	29189.05*	0
TOTALS		29612.00	422.95	29189.05	

Transferred to Article III accounts.

TABLE IV

Amity Canal Article III Water

Month	Contents Beg. of Month A.F.	Inflow A.F.	Evaporation A.F.	Release A.F.	Contents End of Month A.F.
November	68812.27	0	557.09	0	68225.18
December	68255.18	0	374.01	0	67881.17
January	67881.17	0	279.36	0	67601.81
February	67601.81	0	12.00	0	67589.81
March	67589.81	14302.63*	836.84	51.43	81004.17
TOTALS		14302.63	2059.30	51.43	

1984-85 Winter Water.

TABLE V

Ft. Lyon Canal Article III Water

Month	Contents Beg. of Month A.F.	Inflow A.F.	Evaporation A.F.	Release A.F.	Contents End of Month A.F.
November	0	0	0	0	0
December	0	0	0	0	0
January	0	0	0	0	0
February	0	0	0	0	0
March	0	14886.42*	0	460.68**	14425.74
TOTALS		14886.42		460.68	

1984-85 Winter Water.

Transit Loss on 1984-85 Winter Water run to Conservation Pool.

TABLE VI

Las Animas Consolidated Article III Water

Month	Contents Beg. of Month A.F.	Inflow A.F.	Evaporation A.F.	Release A.F.	Contents End of Month A.F.
November	881.29	0	0.23	881.06*	0
December	0	0	0	0	0
January	0	0	0	0	0
February	0	0	0	0	0
March	0	3463.29**	0	0	3463.29
TOTALS		3463.29	0.23	881.06	

November 1 remainder transferred to Conservation Pool.

1983-84 Winter stored water transferred from Pueblo Reservoir

TABLE VII

Agreement Accounts*

Month	Contents Beg. of Month A.F.	Inflow A.F.	Evaporation A.F.	Release A.F.	Contents End of Month A.F.
November	191696.97	0	1544.04	1004.09	189148.84
December	189148.84	0	1036.42	0	188112.42
January	188112.42	0	774.12	0	187338.30
February	187338.30	0	33.25	0	187305.05
March	187305.05	32652.34	2313.93	2898.02	214745.44
TOTALS		32652.34	5701.76	3902.11	

*Includes Article III waters, Transit Loss Account, Golf Course Exchange, Kansas ditch accounts and Colorado ditch accounts.

TABLE VIII

Transit Loss Account

Month	Contents Beg. of Month A.F.	Inflow A.F.	Evaporation A.F.	Release A.F.	Contents End of Month A.F.
November	31745.60	0	177.81	10100.22*	21467.57
December	21467.57	0	117.61	0	21349.96
January	21349.96	0	87.88	0	21262.08
February	21262.08	0	3.77	0	21258.31
March	21258.31	0	263.17	0	20995.14**
TOTALS		0	650.24	10100.22	

*Transferred 9977.19 A.F. (11/35 or 31.43%) to Kansas account.

Transferred 123.03 A.F. (Golf Course Exchange) to Conservation Pool.

Left remainder in account pending Arkansas River Compact Administration decision.

**Transferred to Colorado District #67 ditches on April 1, 1985, according to Article III of Operating Resolution of 1980.

TABLE IX

Golf Course Exchange Water

Month	Contents Beg. of Month A.F.	Inflow A.F.	Evaporation A.F.	Release A.F.	Contents End of Month A.F.
November	117.06	0	0.92	0	116.14
December	116.14	0	0.62	0	115.52
January	115.52	0	0.48	0	115.04
February	115.04	0	0.02	0	115.02
March	115.02	0	1.49	0	113.53
TOTALS		0	3.53	0	

TABLE X

Permanent Recreation Pool

Month	Contents Beg. of Month A.F.	Inflow A.F.	Evaporation A.F.	Release A.F.	Contents End of Month A.F.
November	13210.03	0	106.96	0	13103.07
December	13103.07	0	71.79	0	13031.28
January	13031.28	0	53.59	0	12977.69
February	12977.69	0	2.30	0	12975.39
March	12975.39	0	160.65	0	12814.74
TOTALS		0	395.29	0	

TABLE XI

Conservation Pool

Date	Contents, A.F. Beg. Date Shown	Inflow A.F.	Evaporation A.F.	Release A.F.	Contents, A.F. End of Month
Apr. 1	115762.82	24166.32	1326.65	74458.11	64144.38
May 1	64144.38	91036.63	1102.67	76860.78	77217.56
June 1	77217.56	72315.62	1307.22	57025.74	91200.22
July 1	91200.22	49688.69	1461.17	76860.78	62566.96
Aug. 1	62566.96	21540.61	970.41	73796.24	9340.92
Sept. 1	9340.92	1377.73	23.88	10694.77	0
Oct. 1	0	12123.72	.01	12123.71	0
TOTALS		272249.32	6192.01	381820.13	

TABLE XII

Permanent Recreation Pool

Date	Contents, A.F. Beg. Date Shown	Inflow A.F.	Evaporation A.F.	Release A.F.	Contents, A.F. End of Month
Apr. 1	12814.74	0	182.60	0	12632.14
May 1	12632.14	0	227.25	2432.42*	9972.47
June 1	9972.47	0	144.38	0	9828.09
July 1	9828.09	45.72**	214.20	0	9659.61
Aug. 1	9659.61	0	233.87	0	9425.74
Sept. 1	9425.74	0	161.95	0	9263.79
Oct. 1	9263.79	0	104.06	0	9159.73
TOTALS		45.72	1268.31	2432.42	

*Released to prevent invasion of Flood Pool above authorized 10,000 A.F.

**Stored under Division of Wildlife's Muddy Creek decree.

TABLE XIII

Amity Canal Article III Water

Date	Contents, A.F. Beg. Date Shown	Inflow A.F.	Evaporation A.F.	Release A.F.	Contents, A.F. End of Month
Apr. 1	81004.17	0	1084.85	4987.92	74931.40
May 1	74931.40	0	1362.63	22172.32*	51396.45
June 1	51396.45	0	257.58	51138.87*	0
July 1	0	0	0	0	0
Aug. 1	0	0	0	0	0
Sept. 1	0	0	0	0	0
Oct. 1	0	0	0	0	0
TOTALS		0	2705.06	78299.11	

*Forced releases to river to prevent invasion of Flood Pool.

TABLE XIV

Ft. Lyon Canal Article III Water

Date	Contents, A.F. Beg. Date Shown	Inflow A.F.	Evaporation A.F.	Release A.F.	Contents, A.F. End of Month
Apr. 1	14425.74	0	135.37	5049.01	9241.36
May 1	9241.36	0	168.06	2735.43*	6337.87
June 1	6337.87	0	31.72	6306.15*	0
July 1	0	0	0	0	0
Aug. 1	0	0	0	0	0
Sept. 1	0	0	0	0	0
Oct. 1	0	0	0	0	0
TOTALS		0	335.15	14090.59	

*Forced releases to river to prevent invasion of Flood Pool.

TABLE XV

Las Animas Canal Article III Water

Date	Contents, A.F. Beg. Date Shown	Inflow A.F.	Evaporation A.F.	Release A.F.	Contents, A.F. End of Month
Apr. 1	3463.29	0	32.50	1212.15	2218.64
May 1	2218.64	0	40.36	657.02*	1521.26
June 1	1521.26	0	7.64	1513.62*	0
July 1	0	0	0	0	0
Aug. 1	0	0	0	0	0
Sept. 1	0	0	0	0	0
Oct. 1	0	0	0	0	0
TOTALS		0	80.50	3382.79	

*Forced releases to river to prevent invasion of Flood Pool.

TABLE XVI

Golf Course Exchange Water

Date	Contents, A.F. Beg. Date Shown	Inflow A.F.	Evaporation A.F.	Release A.F.	Contents, A.F. End of Month
Apr. 1	113.53	0	1.62	0	111.91
May 1	111.91	0	1.70	110.21*	0
June 1	0	0	0	0	0
July 1	0	0	0	0	0
Aug. 1	0	0	0	0	0
Sept. 1	0	0	0	0	0
Oct. 1	0	0	0	0	0
TOTALS		0	3.32	110.21	

*13.40 A.F. released to Conservation Pool as augmentation water;
96.81 A.F. released to river to prevent invasion of Flood Pool.

TABLE XVII

Transit Loss Account

Date	Contents, A.F. Beg. of Month	Inflow A.F.	Evaporation A.F.	Release A.F.	Contents, A.F. End of Month
Apr. 1	20995.14	11249.08	153.80	22334.01	9756.41
May 1	9756.41	0	181.72	0	9574.69
June 1	9574.69	0	138.63	0	9436.06
July 1	9436.06	0	205.00	36.16	9194.90
Aug. 1	9194.90	0	220.51	198.35	8776.04
Sept. 1	8776.04	0	149.86	99.17	8527.01
Oct. 1	8527.01	0	95.79	0	8431.22
TOTALS		11249.08	1145.31	22667.69	

TABLE XVIII

Releases & Deliveries to Kansas Ditches

Month	Demand Release	Transit Loss Acct. Release	Frontier Ditch	Ark. at Coolidge	Ditch & River Delivery	Credited Delivery
Apr.	17851.50	1338.87	992.00	17643.00	18635.00	17610.00
May	0	0	253.00	2122.00	2375.00	2284.00
June	1761.81*	0	0	0	0	0
July	22913.56	36.16	1886.00	26315.00	25501.00	21855.00
Aug.	9772.87	198.35	1039.00	18288.00	19327.00	18601.00
Sept.	991.75	99.17	63.00	1002.00	1065.00	1065.00
TOTALS	53291.49	1672.55	4233.00	65370.00	66903.00	61415.00

The above table reflects only times when actual releases were being made from John Martin Reservoir plus a 7-day rundown period. (One-day rundown was used for the one day release in September). "Credited Delivery" refers to the limitation that credit will not be taken for more than 105 percent of Kansas' demand.

Forced release to river pro-rata with other agreement accounts in accordance with spill criteria adopted December 11, 1984.

TABLE XIX

Releases to Colorado Ditches

Month	Acre Feet
March	2385.92
April	29244.95*
May	41259.00**
June	69245.81***
July	36706.69
Aug.	32708.39
Sept.	22870.08
Oct.	5454.45
TOTALS	239875.29****

*Includes 791.21 A.F. well augmentation water.

**Includes 25564.77 A.F. forced release by Corps of Engineers.

***Includes 61,601.36 A.F. forced release by Corps of Engineers.

****Requested releases for irrigation totalled 151917.95 A.F.

At 1345 hours on May 26, an elevation of 3851.85 feet was reached, which is the top of the Conservation Pool. At that time the Corps of Engineers assumed control of releases and continued to control releases until 0900 hours on June 25. During this period the maximum elevation reached was 3852.46 feet, which was 362479.00 A.F. Inflow into the Flood Pool amounted to 24198.00 A.F., of which 22371.00 A.F. was released and 1827.00 A.F. was evaporated.

TABLE XX


Allocation of Reservoir Contents
in acre feet
@ 2400 hours, October 31, 1985

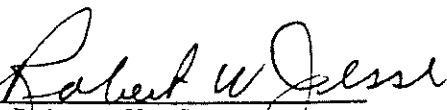
Total Contents	Agreement Water	Compact Water	Article III Water	Permanent Pool Water
280952.00	271792.27	0	0	9159.73

March 28, 1985

AGREEMENT

1. This Agreement will expire November 1, 1985.
2. Kansas and Colorado will cooperate in all release rates to secure the most efficient delivery of water to the Stateline and to Kansas water users.
3. Credit for delivery to Kansas will stop at the Stateline. 7 days after the end of the run at John Martin Reservoir. No credit for over-delivery will be carried forward to any subsequent run.
 - 3a. In the event Kansas calls for a second run before the first run's 7 days have elapsed, then there will be a meeting between the Kansas Water Commissioner and the Colorado Division Engineer to establish the delivery.
4. When delivery of water to the Stateline exceeds the demand of 400 to 600 c.f.s., delivery will be computed at not to exceed 105% of daily average flow.
5. 35% of all "other water" will be transferred into Kansas transit loss account. In the event that water in Kansas transit loss account exceeds the transit loss at the end of the irrigation year, the excess balance will be transferred into the Kansas and Colorado storage accounts.


Howard Corrigan, Hydrologist
Kansas State Board of Agriculture
Division of Water Resources


Robert W. Jesse
Colorado Division
Engineer

PRECIPITATION IN INCHES

	Leadville	Buena Vista	Pueblo	Trinidad	Las Animas	Lamar	Garden City Kansas
Nov. '84	0.40	0.12	0.20	0.34	0.03	trace	0.03
Dec.	0.59	0.39	0.44	0.48	0.45	0.45	1.23
Jan. '85	0.58	0.79	0.50	0.48	0.72	0.90	0.63
Feb.	0.12	0.02	0.36	0.32	0.64	0.48	0.47
Mar.	1.77	1.23	0.72	1.23	0.35	0.29	0.63
Apr.	2.21	1.40	1.70	1.12	1.57	1.64	3.44
May	1.15	1.02	1.46	0.96	2.50	2.83	1.21
June	0.62	0.17	0.10	0.52	0.28	0.62	1.80
July	2.45	1.62	4.82	1.44	3.01	1.97	2.84
Aug.	--	--	0.95	--	--	0.55	3.81
Sept.	--	--	1.01	--	--	1.33	3.19
Oct.	--	--	0.60	--	--	1.33	0.90

JOHN MARTIN RESERVOIR

1984-85 Computed Inflow A.F.
@ 0001 Hrs.

	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.
1	1859	489	417	1287	926	646	671	4859	454	2284	302	234
2	2103	401	417	892	814	587	1710	4100	617	1091	62	366
3	2116	755	325	793	1038	696	1619	3986	393	2646	173	607
4	1781	405	884	595	478	788	1451	1951	294	2386	277	162
5	1331	591	977	1526	814	472	1320	2076	276	1537	527	368
6	1344	772	419	1122	1039	802	1677	2581	273	1246	37	374
7	1220	410	418	1122	1501	570	1190	2384	718	587	119	365
8	1243	499	605	1427	831	623	2460	1409	214	770	163	193
9	1112	501	884	1529	1061	851	2376	2927	462	330	147	355
10	1030	591	419	2240	831	522	2443	4785	248	726	188	147
11	951	498	326	1326	373	803	1900	5653	662	823	127	1336
12	953	408	233	3981	597	1005	2340	6026	287	641	188	447
13	661	1041	988	3356	489	1296	3375	6147	274	187	242	1040
14	694	499	992	2937	489	998	3167	6195	700	1408	242	650
15	475	589	992	2678	374	1189	2088	6190	349	31	367	444
16	1175	498	1466	2361	603	1629	1731	6183	409	343	426	751
17	923	316	1082	3111	374	2019	1503	4957	431	7	85	963
18	591	498	1555	3664	704	1145	1580	3372	1061	733	216	598
19	472	408	1651	2521	436	378	1020	3507	359	51	233	306
20	426	407	1081	2084	309	721	1311	4110	1095	736	182	603
21	670	499	709	1756	651	808	1961	2363	829	352	383	774
22	493	497	804	2084	548	631	2901	1837	3491	522	485	767
23	1113	504	997	1537	551	408	5126	1336	3819	275	28	302
24	227	324	996	1570	552	263	6645	1108	4857	54	62	556
25	847	417	997	1692	782	137	5654	1464	4810	280	60	529
26	494	417	1770	1133	666	1096	4788	1081	5250	104	234	535
27	669	417	2060	1145	665	291	5895	1077	2304	485	218	434
28	582	510	2064	810	572	808	5751	790	3097	348	273	461
29	582	416	1879		674	1136	5733	949	2764	196	273	402
30	405	510	1880		870	643	4854	831	5081	367	124	283
31		417	2174		668		5320		3467	132		373