

Thirty-Eighth Annual Report

Arkansas River

Compact

Administration

(1986)

For The Report-Year

November 1, 1985 to October 31, 1986

**1000 South Main Street
Lamar, Colorado 81052**

THE ADMINISTRATION

FRANK G. COOLEY
Chairman and Representative of the United States

**J. WILLIAM McDONALD,
CARL G. GENOVA and JIM ROGERS**
for Colorado

**DAVID POPE, CARL E. BENTRUP,
and RONALD OLOMON**
for Kansas

**1000 South Main Street
Lamar, Colorado 81052**

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Thirty-Eighth Annual Report
Arkansas River Compact Administration
(1986)
Errata Sheet

Page 9, Following the 2nd table: Add the word "winter" as shown. "Following the transfer of the stored winter water inflows to John Martin Reservoir into the agreement accounts, the allocation of the reservoir contents at 2400 hours on March 31, 1986, were as follows":

Page 14, Below the word "Administration" in the title of the table of appendices add "For the Report-year November 1, 1985 to October 31, 1986" to the title.

Page 19, Appendix "A-1", In the 5th paragraph down of "Operations Committee Report": Insert spaces at the end of the second sentence and begin the third sentence, "35 percent went into the transit loss account..."

Appendix "B-5a" Under "August", delete the first "0" shown. Secondly, the value of 642 shown on August 4 should be "0" and the value on August 5 should be 642.

Appendix "B-14a" The value for "June" on the line "River District #14" should be "73,207.73" not the "72,207.73" shown.

Appendix "B-14b" The value for "July" on the line "Native Dist. #14-#17" should be, "169,204.34" not the "169,201.34" shown.

Appendix "B-18" The value for "December" on the line, "Net Change in Reservoir Contents — a.f." should be "22,600.00" not the "23,600.00" shown.

Annual Report Of
ARKANSAS RIVER COMPACT
ADMINISTRATION
1986

Report-Year November 1, 1985 to October 31, 1986

TO: THE PRESIDENT OF THE UNITED STATES AND THE
GOVERNORS OF THE STATES OF COLORADO AND KANSAS

Sirs:

Pursuant to Article VIII of the Arkansas River Compact, the Arkansas River Compact Administration submits its report for the Report-Year November 1, 1985 through October 31, 1986, as follows:

1. Members of the Administration

Representative of the United States:

Frank G. Cooley

Colorado Representatives:

J. William McDonald, Denver

Carl G. Genova, Pueblo

James G. Rogers, Lamar

Kansas Representatives:

David L. Pope, Topeka

Carl E. Bentrup, Deerfield

Ronald Olomon, Garden City

2. Officers of the Administration

Chairman:

Frank G. Cooley

Vice Chairman:

Carl E. Bentrup

Recording Secretary and Treasurer:

Leo Idler

Operations Secretary:

Robert Jesse

3. Standing Committees:

Administrative and Legal Committee:

Carl E. Bentrup
J. William McDonald (Chairman)

Engineering Committee:

David Pope
Carl C. Genova (Chairman)

Operations Committee:

Ronald Olomon
James G. Rogers (Chairman)

The Representative of the United States is an ex-officio member of all standing committees.

4. Meetings:

December 10, 1985
February 4, 1986

Annual Meeting, Pueblo, Colorado
Special Telephonic Meeting

The minutes of the December 10, 1985, annual meeting and the February 4, 1986 special meeting are not included in this annual report. Transcripts of the meeting minutes have been provided to the Compact Administration and to each state. Copies of the minutes are available upon request from the Compact Administration office in Lamar.

5. Fiscal

**ADOPTED FY 1987-88 BUDGET
(July 1, 1987-June 30, 1988)**

EXHIBIT H

EXPENDITURES

A. SALARIES AND CONTRACTUAL SERVICES:

1. Treasurer.....	\$ 1,000
2. Operations Secretary.....	6,100
3. Recording Secretary.....	1,000
4. Auditor.....	450
5. Court Reporter.....	1,500
6. Payroll Taxes.....	350
	<hr/>
	\$10,400

B. GAGING STATIONS:

1. U.S. Geological Survey Cooperative Agreements for federal FY 1987.....	\$10,290
2. Colorado Satellite System.....	7,000
	<hr/>
	\$17,290

C. OPERATING EXPENSES:	
1. Treasurer's Bond.....	\$ 100
2. 1966 Annual Report (Printing).....	3,000
3. Telephone.....	2,000
4. Office Supplies/Postage.....	300
5. Printing/Copying.....	300
6. Meetings.....	100
7. Travel.....	0
	<hr/>
D. OFFICE EQUIPMENT:	\$ 5,800
E. CONTINGENCY:	\$ 2,000
	0
	<hr/>
INCOME	\$35,490
A. ASSESSMENTS	
1. Colorado (60%).....	\$12,000
2. Kansas (40%).....	8,000
	<hr/>
B. INTEREST EARNINGS.....	\$20,000
C. MISCELLANEOUS.....	3,500
	0
D. TOTAL.....	<hr/>
	\$23,500
EXPENDITURES FROM SURPLUS.....	\$11,990

Adopted by the Arkansas River Compact Administration at its December 9, 1966, Annual Meeting.

Leo Idler
Treasurer

**ARKANSAS RIVER COMPACT ADMINISTRATION
STATEMENT OF CASH RECEIPTS AND
DISBURSEMENTS AND CHANGES IN CASH BALANCE
FROM JULY 1, 1966, TO DEC. 1, 1966**

CASH BALANCE, JULY 1, 1966.....	\$51,879
RECEIPTS:	
Colorado.....	16,800
Kansas.....	11,200
Interest on Savings Account Since July 1.....	1,848.12
Miscellaneous.....	47.82
TOTAL RECEIPTS.....	29,895.94
DISBURSEMENTS:	
Treasurer's Bond.....	100
U.S. Geological Survey.....	11,185
Professional Fees.....	450
Office Supplies & Postage.....	205.56
Printing.....	105.40
Secretary's Salary.....	1,392.75
Payroll Taxes.....	214.50
Telephone.....	445.30

Annual Report.....	3,026.64	
Operations Secretary's Account.....	2,657.23	
TOTAL DISBURSEMENTS.....		19,781.38
EXCESS RECEIPTS OVER DISBURSEMENTS.....		10,114.56
CASH BALANCE, DEC. 1, 1986.....		61,993.56

CASH IN BANK.....	110.97
SAVINGS ACCOUNT.....	18,097.09
CERTIFICATE OF DEPOSIT.....	40,000.00
INTEREST ON C.D. TO DEC. 1.....	3,785.50
	<u>\$61,993.56</u>

**ARKANSAS COMPACT ADMINISTRATION
STATEMENT OF CASH RECEIPTS AND
DISBURSEMENTS AND CHANGES IN CASH BALANCE
FOR YEAR ENDED JUNE 30, 1986**

CASH BALANCE, JULY 1, 1985.....		\$57,432
RECEIPTS:		
Colorado.....	16,800	
Kansas.....	11,200	
Interest.....	4,869	
Miscellaneous Income.....	64	
TOTAL RECEIPTS.....		32,933
DISBURSEMENTS:		
Treasurer's Bond.....	100	
U.S. Geological Survey.....	12,400	
Equipment.....	5,680	
Professional Fees.....	400	
Office Supplies.....	128	
Printing.....	158	
Secretary's Salary.....	3,344	
Payroll Taxes.....	512	
Telephone.....	1,780	
Annual Report.....	4,809	
Recording Secretary & Court Reporter.....	6,860	
Travel & Meetings.....	2,515	
TOTAL DISBURSEMENTS.....		38,486
EXCESS OF DISBURSEMENTS OVER RECEIPTS.....		(5,553)
CASH BALANCE, JUNE 30, 1986.....		<u>\$51,879</u>

6. Facts about the John Martin Project:

The John Martin Reservoir Project was built by the Corps of Engineers, United States Army. The project was authorized by Congress in the Flood Control Act of June 22, 1936, when the federal responsibility for flood control throughout the country was assigned to the Corps of Engineers. It is located on the Arkansas River, 58 miles upstream from the Colorado-Kansas stateline and 18 miles upstream from the city of Lamar, Colorado. Construction of the project began in the fall of 1939, but work was suspended by World War II from the spring of 1943 to the spring of 1946. The project was completed in October 1948 at a cost of about \$15 million. The War Department Civil Appropriation Act of June 24, 1940, changed the name of the project from Caddoa Reservoir Project to John Martin Reservoir Project, in honor of the late Congressman John A. Martin of Colorado. It is operated by the United States Army Engineer District, Albuquerque, New Mexico. Mr. Russell Smith has been the resident superintendent of the project since October, 1976.

The John Martin Reservoir Project is part of the comprehensive plan for the control of floods and the development of the water resources in the Arkansas River basin. The reservoir provides 270,375 acre-feet of storage capacity for flood control and protection of the fertile Arkansas River Valley below the dam. It also provides 350,951 acre-feet of storage space for conservation and recreation.

John Martin Reservoir supplies water to the irrigated lands below the dam as far downstream as Garden City, Kansas. The top of the conservation pool is 3,851 feet above mean sea level, which provides 350,951 acre-feet of water for irrigation. Upon request of the Arkansas River Compact Administration, irrigation water for downstream water users is released through the outlet works in the base of the dam.

The release of stored flood waters in excess of the conservation and recreation pool or above elevation 3,851 feet are planned so that, when combined with flows originating downstream from the dam, the capacity of the channel will not be exceeded. Downstream flood damages prevented by John Martin dam already exceed the cost of the project and have surpassed the \$92 million mark.

Recreation and favorable fish and wildlife habitats are derived from this project. With reservoir lands open to all, there are many attractive public use areas for outdoor recreation, water sports, fishing and boating, or just relaxed living. During construction some embankment material was obtained from a 75-acre tract of land immediately downstream of the dam. This excavated area, averaging 12 feet deep, filled with water and formed Lake Hasty, center of year-round recreation.

John Martin Dam consists of a concrete gravity structure 1,644 feet long and 120 feet high, and an earthfill structure 2,600 feet long. The concrete gravity structure contains a gated spillway provided with sixteen 30 feet by 64 feet tainter gates with their operating machinery. There are earthen wing dams on either side of the main dam. The north wing dam is 3,880 feet long, connecting to the earthfill structure of the main dam at the north abutment. The south wing dam is 5,807 feet long and connects to the south end of the concrete structure of the main dam. A bituminous-surfaced roadway, 21 feet wide, extends along the crest of the

north wing dam, main dam, and south wing dam. The overall length of the structure is 2.6 miles. Detailed project data are shown below.

DAM	
Total length, feet.....	13,945
Maximum height above streambed, feet.....	118
Width of roadway on dam, feet.....	21
SPILLWAY	
Total length, including piers, feet.....	1,174
Crest gates, 30' x 64'.....	16
Discharge capacity, cubic feet per second.....	639,200
OUTLET WORKS	
Sluicing conduits, 6' x 7½'.....	4
Regulating conduits, 4' x 4'.....	2
RESERVOIR	
Capacity, acre-feet.....	621,326
Flood control storage, acre-feet.....	270,375
Conservation (irrigation) and recreation, storage, acre-feet.....	350,951
Water surface at spillway crest, acres.....	8,960
Water surface at top of conservation pool, acres.....	11,655
Water surface at top of flood control pool, acres.....	17,630
Drainage areas, square miles.....	18,915
A ½-mile segment of the historic Santa Fe Trail north of the reservoir has been enclosed by a fence. An appropriate sign marks this historic site.	

7. Cooperative Studies and Activities:

- (a) Article VIII G (1) of Arkansas River Compact requires the Administration to cooperate with the Chief Official of each of the states of Colorado and Kansas charged with the administration of water rights in their respective States, and with the Federal agencies in systematically determining and correlating the facts pertaining to the flow and diversion of the water of the Arkansas River and to the operation and siltation of John Martin Reservoir and other related structures. Article VIII G (2) requests the Director of the United States Geological Survey, the Commissioner of the United States Bureau of Reclamation, and the Chief of Engineers, United States Army, to cooperate and collaborate with the Administration and with appropriate State officials in such determinations and correlations of streamflow and related data. Under the By-Laws of the Administration, these cooperative studies and activities are assigned to the Engineering Committee of the Administration.
- (b) During the year covered by this report the Administration has received excellent cooperation from all agencies referred to in the foregoing provisions of the Compact. The United States Geological Survey has continued the operation of the compact gaging stations and the analysis of and compilation of the hydrologic data presented in this report and used in the administration of the Compact.

(c) The Corps of Engineers continued to operate the conservation pool of John Martin Reservoir in accordance with the terms of the Compact and the orders of the Administration. A new area capacity table for John Martin Reservoir was issued by the Army Corps of Engineers and put into effect August 12, 1961.

8. Water Supply, Reservoir Operations and Hydrologic Data
 The 1966 Arkansas River Compact year and the winter storage season for John Martin Reservoir began at 0001 hour November 1, 1965, with 280,952.00 acre-feet in the reservoir distributed as follows:

Agreement Accounts	271,792.27 a.f.
Permanent Pool	9,159.73 a.f.
	<hr/>
	280,952.00 a.f.

Winter Storage ended at 2400 hour on March 31, 1966, with a total of 76,007.58 acre-feet of winter water stored during this period.

An operating plan adopted April 24, 1960, and last revised December 11, 1964, established a system of water storage accounts in John Martin Reservoir. Water was distributed to the accounts pursuant to that operating plan as follows:

Compact Water (contents of 52,578.42 a.f. & Evaporation of 1,079.16 a.f.)	53,657.58 a.f.
Winter Water	22,350.00 a.f.*
*Amity Canal, Article III water	16,979.04 a.f.
Ft. Lyon Canal Article III water	0 a.f.
*Las Animas Consolidated, Article III water	4,943.54 a.f.
Evaporation prior to distribution	427.42 a.f.
	<hr/>
	76,007.58

*Transferred to Article III Accounts shown at 2400 hours March 31, 1966.

Following the transfer of the stored water inflows to John Martin Reservoir into the agreement accounts, the allocation of the reservoir contents at 2400 hours on March 31, 1966, were as follows:

Compact Water	52,578.42 a.f.
Agreement Water	241,203.78 a.f.
Article III water	
Amity Canal	10,985.07 a.f.
Ft. Lyon Canal	—
Las Animas Consolidated	3,198.36 a.f.
Golf Course Exchange Water	—
Permanent Pool	8,864.37 a.f.
	<hr/>
	316,830.00 a.f.

This year marked the first time that the State of Kansas had called for releases from their account during a winter storage period. The Kansas release began March 21, 1966, at 2200 hours continuing through the end of the winter storage season and on through April 25, 1966. The total release made to Kansas through the end of the winter storage season at 2400 hours on March 31, 1966, was 10,181.97 acre-feet. Releases from Colorado Accounts during the Winter Storage Season totalled 19,145.19 acre-feet.

The summer storage period began at 0001 hour, April 1, 1966, with a

total reservoir content of 316,830.00 acre-feet. No spills occurred in compact year 1986.

During the summer season inflow to the Conservation Pool totaled 101,986.96 acre-feet which total includes 68 acre-feet put into the Las Animas Golf Course Account. This total, minus evaporation losses, was all released into accounts in accordance with the Operating Plan adopted April 24, 1980, and subsequent revisions. The Conservation Pool was empty at 2400 hour, October 31, 1986. The summer operations of the Conservation Pool only are tabulated as follows:

Date	Contents a.f. Beg. Mo.	Inflow a.f.	Evaporation a.f.	Release a.f.	Contents a.f. End Mo.
Apr. 1	52578.42	5868.28	373.51	58073.19	0
May 1	0	0	0	0	0
June 1	0	48125.54	66.27	48059.27	0
July 1	0	11101.90	5.80	11096.10	0
Aug. 1	0	9724.17	1.03	9723.14	0
Sept. 1	0	16696.08	1.15	16694.93	0
Oct. 1	0	10470.99	.20	10470.79	0
TOTALS		101986.96*	447.96	154117.42	

*Includes 68 a.f. of Las Animas Golf Course Water.

During July and September of the summer storage season 198.20 acre-feet was stored in the permanent pool under the Colorado Division of Wildlife's Muddy Creek decree.

During summer storage the Amity Canal stored 23,982.01 acre-feet of Article III water. However, no other Article III water was stored.

Article III water was released during the summer to the various ditches as follows:

Amity Canal	8,456.19 a.f.
Ft. Lyon Canal	0 a.f.
Las Animas Consolidated Canal	949.10 a.f.

Total Article III Summer Release 9,405.29 a.f.

At the end of the compact year the Article III and the Golf Course Accounts were as follows:

Amity Canal	24,515.18 a.f.
Fort Lyon Canal	0
Las Animas Consolidated Canal	1,910.12 a.f.
Las Animas Golf Course Exchange	68.00 a.f.

Total in Article III Accounts 10/31/86 26,493.30 a.f.

Kansas called for releases on 4 occasions during compact year 1986 totalling 82,015.37 acre-feet. The actual credited delivery was 90,096.00 acre-feet. Thus, 8,080.63 acre-feet was over delivered. Releases to Colorado during the 1986 compact year totalled 128,426.84 acre-feet of which 289.22 acre-feet was well augmentation water.

The operation of the Transit Loss Account during the compact year is shown below:

<u>Transit Loss Account</u>					
Month	Contents Beg. of Month a.f.	Inflow a.f.	Evaporation a.f.	Release a.f.	Contents End of Month a.f.
November	8431.22	0	2.33	8428.89*	0
December	0	0	0	0	0
January	0	0	0	0	0
February	0	0	0	0	0
March	0	7672.90	34.58	338.42	7299.90
Subtotals		7672.90	36.91	8767.31	7299.90
April	7299.90	0	135.85	0	7164.05
May	7164.05	0	154.01	272.73	6737.31
June	6737.31	0	153.04	196.30	6387.97
July	6387.97	2799.86	241.57	752.09	8194.17
August	8194.17	220.88	198.78	0	8216.27
September	8216.27	1783.55	179.34	0	9820.48
October	9820.48	3589.41	112.48	0	13297.41
Subtotals		8393.70	1175.07	1221.12	
TOTAL		16066.60	1211.98	9988.43	

*Transferred to other accounts according to 1980 operating resolution.

At the close of the compact year on October 31, 1986, at 2400 hours the contents of John Martin Reservoir were allocated as follows:

Compact Water	0 a.f.
Article III Water	26,425.30 a.f.
Permanent Pool	7,817.53 a.f.
Agreement Water	192,065.17 a.f.
	226,308.00 a.f.

The technical data for this section were compiled by the Colorado Water Conservation Board staff using data from the Annual Report of the Operations Secretary, Arkansas River Compact Administration, the U.S. Geological Survey, Colorado Division of Water Resources and the minutes and correspondence of the Arkansas River Compact Administration.

9. Gaging Stations

The U.S. Geological Survey operates eight gaging stations as indicated in Appendix B under their "Collection of Basic Records" program and through funding agreements with the U.S. Army Corps of Engineers and the Arkansas River Compact Administration. For the fiscal year October 1, 1985, to September 30, 1986, the compact administration approved a cooperative agreement with the U.S. Geological Survey in the amount of \$22,370-\$11,185 for each party. The compact administration funds were used for supplemental measurements at seven gaging sites, the operation of one station, Arkansas River near Granada, Colorado; operation of a telemark at John Martin Dam, maintenance of radio equipment, and the preparation of records for the annual report.

In general, streamflow records of satisfactory accuracy were obtained at the Compact stations. Emphasis was again placed on obtaining more field data, particularly in the form of discharge measurements at various stages of flow. Several more measurements were made at each site than are required under agreement with the Compact. Measurements made by personnel of the Colorado State Engineer were incorporated into the records.

There were no critical problems at the stations during the year, with the exception of the continuing unstable channels and controls.

10. Findings of Fact by the Administration.

There were no findings of fact made by the Administration during Compact Year 1986.

11. Investigations

The investigations begun under the March 28, 1985, resolution authorizing an investigation pursuant to Article VIII H of the compact of allegations of violations of provisions of the Compact in both Colorado and Kansas continued pursuant to the resolution adopted October 8, 1985. Pursuant to that resolution, the Investigation Committee met on November 19, 1985, in Denver, Colorado, and on December 10, 1985, in Pueblo, Colorado prior to the annual meeting.

The investigation committee met in Denver on November 19, 1985, to discuss the proposed scope of work for the continuation of the investigation. At the annual meeting of the Administration on December 10, 1985, in Pueblo, Colorado the Chairman read a prepared statement concerning the purpose of the Administration and the investigative/arbitration process. Following a report by the investigation committee Kansas and Colorado representatives each proposed a resolution concerning the continuance of the Article VIII H investigation. Both motions failed.

On December 16, 1985, Kansas filed a Motion for Leave to File Complaint against Colorado with the United States Supreme Court. This motion was granted on March 24, 1986. The details of the allegations in the lawsuit are contained in the pleadings on file with the United States Supreme Court.

12. Chronology of Events in Kansas v. Colorado Lawsuit

The following is an informal summary of events in the pending lawsuit during this year:

Date	Filed by Kansas Colorado, Supreme Court	Title
Dec. 16, 1985	Kansas	Motion for leave to File Complaint, Complaint, and Brief in Support of Motion for Leave to File Complaint
Feb. 14, 1986	Colorado	Colorado's Brief in Opposition to [Kansas'] Motion for Leave to File Complaint
March 3, 1986	Kansas	Motion for leave to file complaint or alternatively compel compliance with

		the Administration investigation pursuant to Article VIII H. of the Arkansas River Compact
March 4, 1986	Kansas	Reply Brief and Brief in Support of Motion for Leave to File Complaint or Alternatively to Compel Compliance with Administrative Investigation Pursuant to Article VIII (H) of the Arkansas River Compact
March 12, 1986	Colorado	Colorado's Brief in Opposition to [Kansas'] Motion for Alternative Relief
March 18, 1986	Colorado	Reply to Colorado's Brief in Opposition to Motion for Alternative Relief
March 24, 1986	Supreme Court	Order Granting Kansas' Motion for Leave to file a Bill of Complaint
May 22, 1986	Colorado	Colorado's Answer, Counterclaims, and Motion for Appointment of Special Master
June 10, 1986	Kansas	Kansas' Reply to Colorado's Counterclaim
July 7, 1986	Supreme Court	Wade H. McCree Jr., appointed Special Master
August 20, 1986	Supreme Court	Prehearing Conference before Honorable Wade H. McCree, Jr., Special Master

APPENDICES FOR ANNUAL REPORT OF THE ARKANSAS RIVER COMPACT ADMINISTRATION

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Plate I

APPENDIX "A-2"

Auditor's Report

ARKANSAS RIVER COMPACT ADMINISTRATION
CASH BASIS FINANCIAL STATEMENTS
JUNE 30, 1986
with
REPORT OF
INDEPENDENT CERTIFIED PUBLIC ACCOUNTANTS

CRIMOND, FARMER & COMPANY
Certified Public Accountants
203 East Oak, P.O. Box 1173, Lamar, CO 81052

ARKANSAS RIVER COMPACT ADMINISTRATION
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JUNE 30, 1986

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CRIMOND, FARMER & COMPANY
Certified Public Accountants

To the Representatives of
Arkansas River Compact Administration
Lamar, Colorado 81052

We have examined the Statement of Assets & Liabilities Arising from Cash Transactions of the Arkansas River Compact Administration as of June 30, 1986, and the Statement of Cash Receipts and Disbursements, Changes in Cash Balance and the Statement of Cash Receipts and Disbursements with Budget Comparison for the year ended June 30, 1986. Our examination was conducted in accordance with generally accepted auditing standards, and accordingly, included such tests of the

accounting records and such other auditing procedures as we considered necessary in the circumstances.

As described in Note 1a of the Notes to Cash Basis Statements, the accompanying statements are prepared on the cash basis of accounting and accordingly they are not intended to be presented in conformity with generally accepted accounting principles.

In our opinion, the financial statement presents fairly the Assets and Liabilities Arising from Cash Transactions of the Arkansas River Compact Administration as of June 30, 1966, and the results of Cash Transactions for the year then ended on a basis consistent with the previous year.

/s/ Crimond, Farmer & Co.
Certified Public Accountants

September 4, 1966
Lamar, Colorado

**ARKANSAS RIVER COMPACT ADMINISTRATION
STATEMENT OF ASSETS & LIABILITIES
ARISING FROM CASH TRANSACTIONS
June 30, 1966**

ASSETS:	
Cash & Savings.....	\$51,879
Equipment.....	21,993
Concrete Control.....	8,000
TOTAL ASSETS.....	81,872
LIABILITIES:	
Liabilities.....	0
CASH BASIS EQUITY:	
Expended:	
Equipment.....	21,993
Concrete Control.....	8,000
Unexpended:.....	51,879
TOTAL CASH BASIS EQUITY—NOTE 1a.....	81,872
TOTAL LIABILITIES & CASH BASIS EQUITY.....	\$81,872

The accompanying notes are an integral part of the statements.

**ARKANSAS RIVER COMPACT ADMINISTRATION
STATEMENT OF CASH RECEIPTS & DISBURSEMENTS
& CHANGES IN CASH BALANCE
FOR YEAR ENDED JUNE 30, 1966**

CASH BALANCE, JULY 1, 1965.....	\$57,432
RECEIPTS:	
Revenue from Assessments:	
Colorado.....	16,800
Kansas.....	11,200
Interest.....	4,869
Miscellaneous Income.....	64
TOTAL RECEIPTS.....	32,933
DISBURSEMENTS:	
Treasurer's Bond.....	100
Geological Survey.....	12,400
Equipment.....	5,680
Professional Fees.....	400
Office Supplies.....	128
Printing.....	158
Secretary's Salary.....	3,344
Payroll Taxes.....	512
Telephone.....	1,780
Annual Report.....	4,609
Recording Secretary & Court Reporter.....	6,860
Travel & Meetings.....	2,515
TOTAL DISBURSEMENTS.....	38,486
EXCESS OF DISBURSEMENTS OVER RECEIPTS.....	(5,553)
CASH BALANCE, JUNE 30, 1966.....	\$51,879

The accompanying notes are an integral part of the statements.

**ARKANSAS RIVER COMPACT ADMINISTRATION
STATEMENT OF CASH RECEIPTS & DISBURSEMENTS
WITH BUDGET COMPARISON FOR THE
BUDGET YEAR JULY 1, 1965 TO JUNE 30, 1966**

	BUDGET	ACTUAL	OVER UNDER
CASH BALANCE, JULY 1, 1965.....	\$ 0	\$57,432	\$57,432
RECEIPTS:			
Revenues from Assessments:			
Colorado—60%.....	16,800	16,800	0
Kansas—40%.....	11,200	11,200	0
Miscellaneous Income.....	0	64	64
Interest.....	0	4,869	4,869
TOTAL RECEIPTS.....	28,000	32,933	4,933
TOTAL TO ACCOUNT FOR.....	28,000	90,365	62,365

DISBURSEMENTS:			
U.S. Geological Survey.....	12,500	12,400	100
Operations Secretary.....	6,100	3,344	2,756
Treasurers Bond.....	100	100	0
Telephone.....	2,000	1,780	220
Payroll Taxes.....	250	512	(262)
Recording Secretary & Court Reporter.....	6,600	6,860	(260)
Travel & Meeting.....	100	2,515	(2,415)
Professional Fees.....	400	400	0
Office Supplies.....	350	128	222
Printing.....	350	158	192
Annual Report.....	5,000	4,609	391
Equipment.....	0	5,680	(5,680)
Contingency.....	2,000	0	2,000
TOTAL DISBURSEMENTS.....	35,750	38,486	(2,736)
CASH BALANCE, JUNE 30, 1986.....	\$(7,750)	\$51,879	\$59,629

The accompanying notes are an integral part of the statements.

**ARKANSAS RIVER COMPACT ADMINISTRATION
NOTES TO CASH BASIS STATEMENTS
JUNE 30, 1986**

- Note 1 — Summary of significant accounting policies:
- a. The Administration maintains financial records using the cash basis of accounting. By using the cash basis of accounting, certain key accounts needed to present financial position and results of operations are omitted; examples of these accounts are accounts receivable and accounts payable.

APPENDIX "A-1"

OPERATIONS COMMITTEE REPORT

The Operations Committee Report for Compact Year 1986 was read into the record by Jim Rogers at the December 9, 1986 Annual Meeting of the Arkansas River Compact Administration. The following is transcribed from the minutes of that meeting.

The Operations Committee report on December 9th, 1986. It is much too early to tell about the snowpack for 1987. Most reservoirs upstream are full or nearly so. There was not much space to store last year's transmountain water. There was some left on the western slope in 1986 because of lack of storage space.

During the winter of 1985-86 -- November 1, 1985, to April 1, 1986 -- a total of 75,000 acre feet of winter stored water was stored. The Fort Lyon did not store in John Martin Dam in 1985-86 but the Consolidated Ditch did. And its unused water was rolled into the conservation pool on November 1, 1986, according to the operation plan.

There were no flood events during 1985-86. The Pueblo Reservoir is at the bottom of the joint use pool now and the downstream reservoirs have about 50,000 acre feet of space available. And John Martin has less than a hundred thousand acre feet of space available.

Water was stored this summer for the Amity Canal under the Great Plains decrees. This was done under the authorization of the 1980 operation plan with the consent of all upstream users, this water being in addition to the Amity's water and compact water. 35 percent went into the transit loss account, as it has in the past, as called for by the agreement between the two states. The transit loss account will again be quite large.

Kansas has 104,960 acre feet in its account now counting their share of the water that was stored so far this winter. The new table in the operations secretary's report shows the delivery to Kansas by runs instead of by months as was shown last year. All Kansas runs were delivered last year.

There were two storage events on Muddy Creek stored in the permanent pool. The satellite communications system is operating with a total of 45 stations in the Arkansas drainage including the Cheyenne Creek gauge. The computer program for John Martin accounting is now functional. And that concludes our report.

APPENDIX "B-1"

ARKANSAS RIVER ABOVE PUEBLO, COLORADO

Report-Year ending October 31, 1966
USGS Records-Gaging Station No. 07099400

DAY	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.
1	545	88	338	331	390	565	794	2190	3950	890	605	710
2	545	88	370	321	390	545	843	2220	3460	1170	635	611
3	545	88	490	336	398	510	911	2370	3180	1270	515	332
4	460	88	490	395	435	530	1010	2670	2950	1080	475	378
5	435	88	500	396	450	590	1120	3120	2760	854	665	402
6	460	88	525	396	495	585	1350	3300	2960	805	605	390
7	410	88	545	435	610	570	1310	4030	3160	806	495	374
8	370	88	555	430	670	600	1040	4690	3270	794	455	363
9	338	88	500	430	665	690	650	4770	3290	800	450	352
10	328	88	450	435	630	690	648	4470	3100	764	445	338
11	328	88	435	435	595	660	648	3740	2990	716	485	335
12	328	88	445	430	605	635	632	3010	2410	690	570	402
13	346	88	402	430	490	540	634	2710	2230	700	500	510
14	238	90	298	445	445	460	784	2730	2970	722	530	540
15	86	130	262	490	445	460	894	2970	1990	752	500	590
16	86	190	262	470	425	595	960	3340	2040	728	460	650
17	86	260	321	445	398	665	808	3330	1800	794	420	640
18	86	460	383	445	394	722	842	3770	1790	860	395	665
19	86	555	398	470	390	776	854	4250	2020	854	374	665
20	86	590	398	495	352	805	848	4610	2140	830	355	635
21	86	590	395	495	349	812	805	4560	2110	830	332	610
22	86	590	338	495	374	860	980	4350	2390	864	310	595
23	87	590	324	500	390	866	1160	3930	2970	904	335	560
24	87	590	338	500	374	848	1190	3790	1650	897	349	590
25	87	590	395	475	394	800	1350	3990	1590	967	342	590
26	87	670	395	410	402	854	1300	3690	1430	830	390	590
27	87	728	335	394	395	911	1540	3850	1290	665	415	565
28	88	728	321	390	396	878	1780	4060	1180	590	630	535
29	88	728	321	390	378	818	1720	4050	1060	515	615	540
30	88	845	321	390	485	768	1890	3990	974	535	665	565
31	495	495	321	390	525	7090	2090	—	832	555	—	—
TOTAL	7064	11938	12004	14003	20569	34293	106300	66736	25062	14339	28441	16147
sec. ft.	14011	20566	23679	27775	40638	68020	214615	138321	49710	28441	32028	—

THE YEAR 681,943 acre-feet

APPENDIX "B-2"

ARKANSAS RIVER AT LAS ANIMAS, COLORADO

Report Year ending October 31, 1966
USGS Records—Gaging Station No. 07124000

DAY	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.
1	87	195	266	194	108	33	35	233	207	65	183	67
2	88	210	241	190	104	33	33	578	127	110	377	64
3	88	225	209	208	109	36	36	261	290	183	500	68
4	88	326	185	209	119	38	37	223	516	485	505	64
5	88	341	176	208	115	37	37	201	698	299	383	70
6	87	287	185	208	112	38	34	681	386	118	311	72
7	86	280	185	203	114	40	32	590	353	108	222	73
8	86	255	177	208	139	40	34	851	313	94	351	64
9	86	225	180	201	158	37	40	1900	418	90	577	60
10	89	202	175	185	167	37	47	1690	578	103	383	63
11	89	121	177	110	181	37	50	1690	465	82	359	73
12	92	107	203	110	167	39	101	1400	386	85	337	79
13	89	100	212	110	156	38	130	761	239	115	355	147
14	93	100	215	200	153	38	106	416	138	238	383	178
15	116	100	222	400	114	39	74	253	110	116	361	131
16	128	100	231	388	80	39	58	194	144	92	385	159
17	109	100	218	301	73	37	54	168	68	88	299	161
18	108	130	206	247	88	37	53	136	83	89	260	253
19	105	200	198	189	68	38	60	97	77	92	231	334
20	103	400	198	229	60	43	145	210	84	99	207	403
21	108	600	196	239	66	41	144	396	1110	100	174	545
22	104	700	198	241	59	38	120	585	270	103	177	638
23	150	600	198	294	53	36	124	562	284	100	101	639
24	216	449	183	113	53	36	96	738	480	431	85	634
25	221	337	195	108	49	37	92	454	440	190	82	618
26	222	288	190	104	44	42	113	386	221	239	77	628
27	213	256	197	106	43	42	142	183	94	166	67	661
28	219	247	212	103	41	38	130	104	74	141	64	682
29	223	266	211	—	38	37	108	81	72	126	68	753
30	209	271	206	—	34	37	235	158	62	120	66	734
31	—	274	200	—	33	—	234	—	59	109	—	655
TOTAL												
sec. ft.	3786	8274	6244	5504	2868	1137	2713	16379	8876	4581	7586	9735
ac. ft.	7510	16411	12385	10917	5746	2255	5381	32488	17606	9047	15071	19809

THE YEAR 154,128 acre-feet

APPENDIX "B-3"

PURGATOIRE RIVER NEAR
LAS ANIMAS, COLORADO

Report-Year ending October 31, 1966
USGS Records—Gaging Station No. 07128500

DAY	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.
1	58	30	43	16	11	7.0	6.6	7.2	23	2.9	179	18
2	54	28	42	12	10	7.0	36	12	20	3.2	548	12
3	51	32	38	10	9.7	6.8	170	1480	216	221	409	21
4	96	32	40	8.2	8.3	14	23	888	91	332	224	37
5	85	30	35	6.9	7.5	9.9	26	303	36	58	150	39
6	82	27	30	7.5	8.5	6.2	24	176	22	21	130	37
7	72	25	30	8.3	8.5	6.4	13	222	17	26	106	44
8	65	25	30	9.0	8.5	7.0	9.0	104	14	13	100	43
9	62	30	30	9.0	7.3	6.5	9.0	169	45	18	65	38
10	56	30	30	8.0	11	8.4	11	446	25	42	51	39
11	59	25	35	7.5	8.4	6.6	9.0	301	14	9.5	66	54
12	56	20	38	7.5	7.3	6.6	8.4	150	8.1	18	56	68
13	55	20	33	8.0	7.0	8.4	7.5	120	11	7.0	46	68
14	58	20	34	9.0	7.9	13	7.4	85	15	73	32	53
15	57	20	33	10	28	25	7.0	60	29	37	36	61
16	46	20	36	10	35	7.1	7.0	40	26	245	39	51
17	42	25	35	11	50	6.8	7.0	30	18	304	31	45
18	49	30	35	14	43	7.0	6.9	20	16	115	26	43
19	48	30	32	17	21	6.9	6.6	16	12	69	23	44
20	48	31	32	11	19	6.6	6.6	14	8.7	55	17	51
21	48	28	30	15	21	6.6	5.8	13	562	45	16	58
22	46	30	30	15	15	6.6	5.8	10	688	44	14	155
23	43	30	26	15	11	6.4	5.8	25	193	467	18	203
24	40	30	27	15	8.0	6.2	5.8	15	134	787	15	112
25	43	30	24	13	7.5	6.8	5.8	7.1	60	280	18	86
26	40	30	23	12	7.5	8.0	5.9	12	200	194	12	72
27	37	29	22	12	7.8	7.8	6.2	40	150	182	13	75
28	35	29	21	11	7.9	6.9	6.2	20	65	139	8.5	74
29	35	28	22	11	6.8	6.4	6.1	16	28	93	8.5	68
30	35	32	18	10	10	6.4	6.3	20	11	101	12	58
31	---	37	18	---	7.0	---	9.4	---	3.9	92	---	53
TOTAL	1601	863	948	308.9	426.4	241.3	470.1	4770.3	2761.7	4113.7	2472.0	1880
sec. ft.	3176	1712	1880	615	846	479	932	9462	5478	8190	4603	3729
ac. ft.												

THE YEAR 41,372 acre-feet

APPENDIX "B-4"

RIVER FLOW INTO
JOHN MARTIN RESERVOIR

Report-Year ending October 31, 1966
USGS Records

DAY	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.
1	145	225	300	210	119	39	41.6	240.2	230	67.9	382	85
2	142	238	283	202	114	40	60	590	147	113.2	938	76
3	139	237	247	215	118.7	42.8	206	1741	506	414	908	87
4	184	386	225	217.2	127.3	52	60	1001	607	837	729	101
5	173	371	211	214.9	125.9	46.9	63	504	794	837	533	100
6	169	314	215	210.3	120.5	44.2	56	867	418	139	441	109
7	156	286	215	211.3	122.5	46.4	45	812	370	134	338	117
8	151	280	207	217	147.5	47	43	955	337	107	451	107
9	148	255	210	210	165.3	43.5	49	2009	463	108	442	96
10	146	232	206	163	178	45.4	58	2136	603	145	413	102
11	146	146	212	117.5	189.4	43.6	59	2331	479	101.6	405	127
12	146	127	241	117.5	174.3	45.6	109.4	1550	394.1	103	386	147
13	144	120	245	118	163	46.4	127.5	881	230	122	401	215
14	151	120	249	209	160.9	52	115.4	501	153	309	394	230
15	173	120	255	410	142	64	81	312	139	113	397	192
16	174	120	257	396	115	46.1	65	234	170	337	404	180
17	151	125	253	312	123	43.9	61	198	106	382	330	206
18	157	160	241	261	131	44	59.9	156	99	204	286	265
19	153	200	226	216	89	44.9	86.6	113	89	161	254	378
20	151	431	230	240	79	46.6	151.6	224	92.7	104	224	454
21	151	638	236	254	87	47.6	149.8	408	1672	145	190	604
22	150	730	224	256	74	44.6	126.8	515	968	147	141	783
23	188	630	224	239	64	42.4	129.8	587	477	567	119	842
24	256	479	230	128	61	42.2	101.8	783	614	1218	100	746
25	264	387	250	119	56.5	43.8	97.8	461.1	500	470	100	704
26	262	318	213	116	50	50	118.9	398	421	430	89	698
27	260	287	219	118	50.8	49.8	149.2	233	244	358	80	736
28	254	276	233	114	48.9	44.9	126.2	124	139	370	72.5	766
29	258	294	233	114	44.8	43.4	111.1	97	100	219	76.5	821
30	244	303	224	111	44.8	43.4	241.3	178	73	221	78	782
31	---	311	218	---	40	---	243.4	---	63.9	201	---	708
TOTAL	5387	9137	7192	5813.9	3394.4	1278.3	3183.1	21149.3	11637.7	8674.7	10070	11615
sec. ft.	10985	18123	14265	11533	6594	2734	6314	41960	23063	17206	18974	23038
THE YEAR 196,498 acre-feet												

The Riverflow into JMR is the sum of the daily flows of the Arkansas River near Las Animas (Appendix B-2) and the Purgatoire River near Las Animas (Appendix B-3)

APPENDIX "B-5"

CONTENTS OF JOHN MARTIN RESERVOIR

Report-Year ending October 31, 1986
Corps of Engineers Records
Midnight contents in acre-feet from capacity table based on April/June 1980 hydrographic surveys and November 1980 aerial photographs used since August 12, 1981

DAY	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.
1	290652	287259	310298	325759	336679	313967	257761	216167	235569	202639	200189	211457
2	281054	287066	310633	326387	336679	311369	256811	217029	234120	200940	202223	211290
3	281054	288276	311476	326654	337022	310084	256241	218356	233933	199375	203313	210671
4	281156	289686	312018	326878	337136	308873	255102	221339	232957	200270	206778	210453
5	281359	289904	312456	327326	337022	304517	253982	222201	231615	200586	207773	210034
6	280652	289723	312784	327773	336907	302877	252787	222938	230619	200694	208610	209448
7	280652	291353	313560	327996	336793	299633	251587	225424	229669	200270	208364	209197
8	280650	291066	314206	328220	336793	297330	250198	227900	229158	200006	210685	209778
9	280748	292369	314206	328556	336793	295016	249256	231438	228431	199782	211123	208778
10	280545	293132	314862	329115	336793	292294	247945	234839	227546	199457	212943	208982
11	280650	293446	315269	329539	336793	290619	246682	241007	226750	199375	212462	208610
12	281054	293550	315946	329451	336607	288581	245258	244421	224982	198810	213394	208375
13	280652	293969	316174	329675	336793	286445	243284	244339	223497	198174	214063	208359
14	281563	294398	316850	329224	336907	284411	240735	246048	223149	198730	214640	208810
15	281970	295016	317377	331129	337022	282173	238560	246792	221511	198371	215310	208537
16	282375	295435	317814	331912	336879	280647	236567	249163	219538	198412	216167	208610
17	282580	296273	318590	332359	337022	279059	234664	248885	217115	198492	216425	208327
18	282682	297216	319127	333386	336907	277380	232322	248327	214640	198412	217029	208610
19	282687	298158	319674	333929	336664	275109	230554	247397	212378	197935	217029	208994
20	283068	299100	320111	334387	336449	273430	229050	246909	210453	197379	217029	210285
21	283381	300461	320530	334945	335782	272245	227459	245072	212878	198604	217029	211055
22	283405	302163	320677	335418	334387	269791	225689	244236	213394	198187	216770	212981
23	283902	303768	321314	335877	333143	267858	223732	243878	213467	198028	216425	214640
24	284307	304859	322080	336320	331576	266021	222287	243482	213394	197220	215736	219736
25	284919	305695	322818	336449	329451	264578	221060	242748	213394	197338	215053	217460
26	285326	306338	323075	336679	328106	263318	220046	242004	213394	196253	214472	219184
27	285696	307087	323522	336793	326319	262058	218666	240644	212881	196050	213718	220621
28	286140	307729	323958	336449	324188	261188	217632	239105	212127	196050	213132	223114
29	286750	308158	324194	---	321533	260136	216770	237392	210285	199138	212797	224694
30	287066	309014	324753	---	318346	258806	216253	236386	207521	199213	212043	224686
31	---	308656	325200	---	316930	---	215622	---	205313	199782	---	225954

NOTE - Difference between published U.S. Geological Survey and Compact report figures is due to rounding procedures and/or corrections to the record at times of inspections.

APPENDIX "B-5a"

CONTENTS OF JOHN MARTIN
RESERVOIR CONSERVATION POOL

Contents of John Martin Reservoir Conservation Pool
Contents at 2400 hours
Report Year ending October 31, 1966
Source: Operations Secretary, Arkansas River Compact Administration
(rounded to the nearest acre-foot)

DAY	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	DAY
1	361	9729	21817	31807	44091	50408	0	12	0	0	0	0	1
2	658	9887	23194	32180	44389	48018	0	0	0	0	0	0	2
3	1294	10374	23705	32985	44782	45915	0	838	0	0	0	0	3
4	1728	10775	23045	32826	45134	45850	0	1542	0	642	128	0	4
5	2269	11472	23297	33408	45469	41388	0	375	0	0	642	1288	5
6	2826	11959	23699	33889	45840	38712	0	288	0	0	671	0	6
7	3631	12508	24083	34259	46205	36822	0	84	0	0	0	0	7
8	2676	12516	24441	34631	46162	34870	0	802	0	0	0	0	8
9	3128	12773	24712	35000	46226	32469	0	2550	0	0	0	0	9
10	3873	13251	24970	35384	46890	30488	0	6091	0	0	0	0	10
11	3930	13439	25239	35825	47254	27988	0	9431	0	0	0	0	11
12	4375	13687	25603	36276	47723	26322	0	10298	0	0	0	0	12
13	4708	13956	25741	36647	47981	25307	0	10885	0	0	0	0	13
14	5334	14289	26087	36847	48488	24822	0	10081	0	0	0	0	14
15	5818	14328	26385	37522	48988	18997	0	9049	0	0	0	0	15
16	6107	14542	26804	38118	49773	16998	0	7914	0	0	0	0	16
17	6373	14876	27198	39085	49708	15324	0	6484	0	0	0	0	17
18	6682	15462	27467	39779	49901	13850	0	4831	0	0	0	0	18
19	6817	16048	27854	40367	50053	11678	0	3108	0	0	0	0	19
20	7014	16464	28110	40860	50243	9809	0	1907	0	0	0	0	20
21	7317	17117	28550	41350	50246	8289	0	565	1740	0	0	417	21
22	7434	18173	28501	41982	50750	6509	0	0	0	0	0	0	22
23	7731	18605	28738	42439	50985	4814	0	0	1970	0	0	0	23
24	7990	18881	29033	42822	51327	3199	0	0	1458	0	0	0	24
25	8408	19727	29423	43182	51384	1313	0	0	308	519	0	0	25
26	8794	19856	30013	43565	51721	0	0	0	0	0	0	0	26
27	8923	20156	30298	43833	52054	0	0	0	0	0	0	0	27
28	9086	20489	30468	43981	52068	0	0	0	0	0	0	0	28
29	9202	20851	30618	44000	52068	0	0	0	0	0	0	0	29
30	9202	21180	31002	44000	52462	0	0	0	0	0	0	0	30
31	—	21503	31273	—	52578	—	0	—	0	0	0	0	31

APPENDIX "B-6"

**OUTFLOW FROM JOHN MARTIN RESERVOIR
ARKANSAS RIVER BELOW
JOHN MARTIN RESERVOIR**

Report-Year ending October 31, 1966
USGS Records-Gaging Station No. 07130600

DAY	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.
1	138	5.3	3.6	6.8	61	1270	568	443	768	1290	83	318
2	134	5.3	3.6	6.4	61	1260	562	310	777	985	82	308
3	134	5.3	3.6	5.8	70	1250	562	169	818	795	8.6	307
4	138	5.3	3.6	5.8	83	1250	564	124	849	433	6.2	305
5	143	5.3	3.6	5.8	98	1250	555	82	852	229	6.4	305
6	146	4.7	3.6	5.8	103	1240	559	14	845	229	4.6	282
7	149	4.0	3.6	5.8	122	1260	570	14	928	234	4.4	265
8	146	4.0	6.4	6.1	134	1250	579	12	945	253	4.7	256
9	146	4.0	6.7	6.3	134	1240	585	11	819	268	3.8	253
10	146	4.0	14	6.3	134	1220	586	8.3	901	269	3.2	253
11	146	3.6	9.9	5.9	134	1070	588	7.4	897	268	3.0	253
12	120	3.2	9.8	5.6	134	994	836	7.3	923	235	2.8	253
13	101	3.3	9.8	6.2	134	961	1200	7.3	920	229	3.2	259
14	99	2.9	9.8	6.3	134	963	1140	7.3	891	241	2.8	252
15	39	2.5	9.3	6.3	134	967	1120	6.3	1010	249	43	241
16	5.5	2.5	9.3	6.3	134	952	1040	127	1140	242	70	237
17	5.5	3.0	9.0	6.3	132	946	969	288	1210	245	70	235
18	5.5	3.8	8.6	6.1	134	948	963	312	1290	245	70	237
19	5.5	3.5	8.3	5.7	137	949	946	644	1310	323	118	236
20	5.5	3.6	8.1	5.8	143	949	892	842	1290	371	165	221
21	5.4	3.6	7.3	5.8	439	968	945	840	979	378	164	170
22	5.4	3.6	7.3	5.8	686	985	984	834	678	378	251	107
23	5.4	3.6	7.3	5.8	685	968	971	812	556	377	317	78
24	5.3	3.6	7.3	5.8	874	960	816	801	584	373	327	55
25	5.3	3.6	7.3	3.8	1020	908	802	798	534	323	229	43
26	5.3	3.6	7.3	6.1	828	680	805	814	518	295	339	43
27	5.3	3.6	7.3	6.1	997	677	800	852	517	68	346	41
28	5.3	3.6	9.1	6.1	1200	813	694	873	521	109	347	38
29	5.3	3.6	6.8	6.8	1200	565	583	873	945	123	338	38
30	5.3	3.6	6.8	6.8	1200	568	485	809	1300	134	324	25
31	---	3.6	6.8	6.8	1240	---	445	---	1340	113	---	5.3
TOTAL	2007.8	118.7	224.8	365.6	13712	30041	23754	11741.9	27921	10213	3838.7	5918.3
sec. ft.	3982	235	446	725	25214	58688	47116	23390	55381	20257	7814	11739
ac. ft.												

THE YEAR 253,985 acre-feet

APPENDIX "B-7"

ARKANSAS RIVER AT LAMAR, COLORADO

Report-Year ending October 31, 1966
USGS Records-Gaging Station No. 07133000

DAY	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.
1	16	22	36	16	1.6	683	50	58	373	941	36	31
2	13	29	36	16	1.5	683	46	96	361	947	46	31
3	12	40	36	24	7.6	691	45	96	342	518	731	30
4	11	46	37	33	8.8	690	32	89	309	438	92	30
5	9.7	42	41	33	6.7	690	30	87	320	100	47	19
6	22	40	39	35	7.4	700	20	116	317	106	19	20
7	32	39	37	34	8.6	701	16	87	355	73	16	20
8	33	40	37	31	9.9	704	13	53	593	53	13	20
9	32	40	38	28	24	706	13	37	399	178	11	20
10	31	34	40	25	36	715	14	33	363	114	6.9	23
11	46	32	41	25	13	673	13	34	401	88	6.4	33
12	56	21	44	25	20	510	16	34	338	68	6.4	36
13	43	22	43	26	20	498	504	33	339	63	6.6	30
14	38	25	43	30	20	483	573	34	334	248	6.7	30
15	41	25	40	34	20	468	590	36	338	231	8.2	28
16	58	35	40	37	20	425	537	36	519	84	9.5	27
17	32	35	40	33	20	413	456	35	546	60	8.9	28
18	47	37	39	31	19	400	425	37	610	46	11	35
19	44	39	39	29	20	402	341	87	655	40	11	50
20	41	40	38	27	24	399	322	441	690	46	11	84
21	38	40	38	28	48	407	322	489	670	45	12	80
22	33	40	37	28	461	433	303	494	350	50	15	79
23	32	40	37	27	516	443	227	469	200	62	16	84
24	32	40	36	27	510	398	196	428	150	154	16	92
25	33	39	39	36	13	353	183	414	130	117	16	94
26	33	38	37	2.0	691	123	135	428	110	302	13	85
27	32	37	32	2.6	575	109	206	433	100	320	19	79
28	33	36	33	1.9	707	105	263	444	90	85	20	77
29	32	36	35	—	730	63	128	438	250	64	21	67
30	24	36	35	—	730	63	105	425	600	38	22	66
31	—	36	25	—	715	—	78	—	756	37	—	63
TOTAL												
sec. ft.	968.7	1091	1164	703.5	6512.1	14125	6157	6011	11910	5617	1273.6	1436
ac. ft.	1981	2164	2309	1395	12917	28017	12212	11923	23623	11141	2536	2648
THE YEAR 113,066 acre-feet												

APPENDIX "B-8"

ARKANSAS RIVER NEAR GRANADA, COLORADO

Report Year ending October 31, 1966
USGS Records—Gaging Station No. 07184180

DAY	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.
1	96	123	143	113	87	622	82	138	369	751	152	44
2	97	123	142	113	88	645	77	150	335	1380	134	48
3	96	131	141	119	87	636	70	135	356	964	737	49
4	103	148	138	131	89	667	64	114	343	800	573	50
5	105	151	131	135	90	655	62	107	323	434	305	49
6	96	155	141	135	87	656	54	127	319	320	228	44
7	96	153	136	133	84	661	51	146	315	278	204	44
8	97	153	133	122	85	639	47	189	385	219	180	41
9	100	154	134	119	89	636	44	240	560	245	160	37
10	113	146	137	114	106	656	45	183	430	245	144	40
11	121	141	137	111	81	660	43	168	450	191	133	55
12	139	119	139	108	47	549	42	145	418	170	127	60
13	145	130	139	112	28	494	126	118	365	161	118	63
14	138	134	137	126	28	475	413	110	384	138	113	58
15	142	137	138	134	28	455	453	105	364	366	106	59
16	149	143	135	139	28	418	455	95	453	208	95	55
17	152	148	133	135	28	404	411	74	535	160	81	52
18	146	151	131	129	27	379	400	63	560	120	74	57
19	136	152	132	126	23	375	391	62	578	91	68	70
20	132	155	132	119	25	377	383	154	618	77	59	90
21	140	159	130	117	25	376	354	335	669	76	53	143
22	150	159	125	115	137	390	379	391	686	82	48	139
23	151	155	127	112	352	412	405	415	348	623	45	138
24	153	148	128	107	410	388	380	398	194	304	44	141
25	156	146	125	106	417	362	368	369	153	234	44	152
26	156	147	122	102	568	276	268	376	140	225	48	149
27	152	144	121	106	620	194	267	377	126	646	42	140
28	151	142	121	92	604	161	279	367	115	334	46	135
29	148	140	121	---	630	124	245	380	96	230	46	128
30	138	143	120	---	649	96	175	390	284	188	44	128
31	---	142	119	---	656	---	151	---	566	166	---	125
TOTAL												2692
sec. ft.	3886	4473	4068	3330	6303	13674	6650	6461	11871	10398	4253	2692
ac. ft.	7732	8672	8108	6605	12502	27619	13803	12815	23546	20624	8436	5131

THE YEAR 155,684 acre-feet

APPENDIX "B-9"

ARKANSAS RIVER AT THE
COLORADO-KANSAS STATELINE

Report Year ending October 31, 1966
USGS Records

DAY	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.
1	183	150	169	182	157	709	239	314	729	720	377	237
2	186	150	170	156	152	683	226	364.01	483	2047	358	233
3	186	159	189	146	151	691	216	343	415	1320.8	591	234
4	183	166	166	152	146	666	205	324	306	1290.75	1090	231
5	183	177	168	190	145	640	185	285	369	1090.06	504	237
6	183	185	175	165	140	660	189	232	366	670	390	223
7	204.5	191	163	166	136	656	172	227.13	365	517	344	221
8	186.3	186	187	158	137	649	164	444	623	445	347	207.2
9	186.02	183	163	160	146	648	164	432	674	490	333	183
10	197	175	166	151	156	653	169	531	537	508	316	186
11	197	170	169	140	172	646	165	433	533	483	301	179
12	217	164	162	140	146	597	161	303	544	418	264	219
13	213	165	165	152	139	526	169	267	432	453	267	242
14	207	160	167	157	139	541	325	246	455	399	247	246.2
15	228	158	168	166	128	542	462	227	443	438	235	246.4
16	233	162	166	170	129	510	550	216	431	481	237	250.6
17	259	172	161	172	130	502	559	202	549	354	226	250.3
18	225	177	162	169	131	474	588	192	583	296	208	244.4
19	201	183	167	155	126	478	576	192	623	262	196	239
20	179	196	167	154	116	457	556	211	715	252	191	209
21	171	188	157	137	110	455	470	304	790	230	187	441
22	179	186	151	159	102	458	437	465	1515.6	241	191	403
23	189	179	153	143	229	472	469	469	768.48	753	185	403
24	189	179	159	146	373	464	529	482	414	966	190	372
25	187	183	159	148	442	444	447	440	343	463	202	335
26	183	177	159	154	467	445	396	413	316	404	201	311
27	179	165	159	147	663	370	395	516.6	281	544	202	267
28	179	170	161	143	602	336	400	374	257	531	217.2	273
29	177	171	157	—	614	304	383	482	233	423	228	242
30	160	173	156	—	697	265	336	534	243	406	226	228
31	—	169	160	—	689	—	301	—	503	398	—	237
TOTAL												
sec. ft.	5859.82	5355	5085	4865	7840	15947	10613	10341.7	15914.08	19428.63	8693.2	8111.0
ac. ft.	11623	10622	10027	8663	15551	31631	21051	20996	31596	36553	17836	16098
THE YEAR	232,104	acre feet										

The daily discharges are the sum of the flows of the Arkansas River near Coolidge, Kansas, USGS Gaging Station No. 07137500 and the Frontier Ditch, USGS Gaging Station No. 07137000.

APPENDIX "B-10"

TRANSFER OF COMPACT WATER FROM THE JOHN MARTIN RESERVOIR CONSERVATION POOL INTO AGREEMENT ACCOUNTS

Transfer of Compact Water from the John Martin Reservoir Conservation Pool Into Agreement Accounts 1/
 Report-Year ending October 31, 1966
 Source: Operations Secretary, Arkansas River Compact Administration
 (acre-feet)

DAY	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	DAY
1	0.00	0.00	0.00	0.00	0.00	2,479.38	0.00	1,239.69	0.00	0.00	0.00	650.94	1
2	0.00	0.00	0.00	0.00	0.00	2,479.38	0.00	1,560.76	0.00	0.00	0.00	1,963.50	2
3	0.00	0.00	0.00	0.00	0.00	2,479.38	0.00	1,963.50	0.00	0.00	0.00	1,963.50	3
4	0.00	0.00	0.00	0.00	0.00	2,479.38	0.00	1,963.50	0.00	1,322.33	0.00	1,963.50	4
5	0.00	0.00	0.00	0.00	0.00	2,479.38	0.00	1,963.50	0.00	1,165.59	1,226.54	0.00	5
6	0.00	0.00	0.00	0.00	0.00	2,479.38	0.00	1,963.50	0.00	0.00	602.83	0.00	6
7	0.00	0.00	0.00	0.00	0.00	2,479.38	0.00	1,963.50	0.00	0.00	780.48	0.00	7
8	0.00	0.00	0.00	0.00	0.00	2,479.38	0.00	1,963.50	0.00	0.00	884.87	0.00	8
9	0.00	0.00	0.00	0.00	0.00	2,479.38	0.00	1,963.50	0.00	0.00	685.15	0.00	9
10	0.00	0.00	0.00	0.00	0.00	2,479.38	0.00	1,963.50	0.00	0.00	785.66	0.00	10
11	0.00	0.00	0.00	0.00	0.00	2,479.38	0.00	1,963.50	0.00	0.00	494.16	0.00	11
12	0.00	0.00	0.00	0.00	0.00	2,479.38	0.00	1,963.50	0.00	0.00	614.30	0.00	12
13	0.00	0.00	0.00	0.00	0.00	2,479.38	0.00	1,963.50	0.00	0.00	582.89	0.00	13
14	0.00	0.00	0.00	0.00	0.00	2,479.38	0.00	1,963.50	0.00	0.00	482.08	35.55	14
15	0.00	0.00	0.00	0.00	0.00	2,479.38	0.00	1,963.50	0.00	0.00	503.64	0.00	15
16	0.00	0.00	0.00	0.00	0.00	2,479.38	0.00	1,963.50	0.00	0.00	816.02	0.00	16
17	0.00	0.00	0.00	0.00	0.00	1,963.50	0.00	1,963.50	0.00	0.00	256.94	0.00	17
18	0.00	0.00	0.00	0.00	0.00	1,963.50	0.00	1,963.50	0.00	0.00	548.73	0.00	18
19	0.00	0.00	0.00	0.00	0.00	1,963.50	0.00	1,963.50	0.00	0.00	136.26	0.00	19
20	0.00	0.00	0.00	0.00	0.00	1,963.50	0.00	1,963.50	0.00	0.00	283.88	1,239.69	20
21	0.00	0.00	0.00	0.00	0.00	1,963.50	0.00	1,963.50	1,963.50	0.00	387.78	1,239.69	21
22	0.00	0.00	0.00	0.00	0.00	1,963.50	0.00	1,963.50	0.00	0.00	230.26	810.60	22
23	0.00	0.00	0.00	0.00	0.00	1,963.50	0.00	1,963.50	0.00	0.00	0.00	1,251.70	23
24	0.00	0.00	0.00	0.00	0.00	1,963.50	0.00	1,238.07	1,963.50	0.00	0.00	570.59	24
25	0.00	0.00	0.00	0.00	0.00	1,963.50	0.00	1,322.93	1,963.50	1,239.69	0.00	0.00	25
26	0.00	0.00	0.00	0.00	0.00	1,963.50	0.00	1,064.96	978.76	1,626.32	0.00	1,091.06	26
27	0.00	0.00	0.00	0.00	0.00	1,377.87	0.00	1,078.70	714.65	1,229.49	0.00	992.19	27
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	616.17	658.70	1,080.08	0.00	771.63	28
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	468.46	520.14	355.52	0.00	364.48	29
30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	288.85	414.30	0.00	0.00	461.48	30
31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	424.57	0.00	717.63	31
TOTAL	0.00	0.00	0.00	0.00	0.00	58,073.19	0.00	48,068.27	11,066.10	9,723.14	16,694.93	10,470.79	

THE YEAR 194,117.43 acre-feet
 1 /All conservation pool water was apportioned as follows in Colorado and Kansas Accounts:
 -40% to Kansas and 60% to Colorado, as described in the 1960 Colorado-Kansas Storage Resoluiton, and 35% of all "other water" delivered to John
 Martin Reservoir to the Kansas transit loss account.

APPENDIX "B-11"

DEMANDS BY COLORADO FOR AGREEMENT ACCOUNT WATER IN JOHN MARTIN RESERVOIR

Demands by Colorado for Agreement Account Water in John Martin Reservoir
 Report Year ending October 31, 1966
 Source: Operations Secretary, Arkansas River Compact Administration
 (acre-feet)

DAY	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	Day
1	305.80	0.00	0.00	0.00	108.91	1,543.46	774.22	735.13	0.00	485.29	131.94	501.00	1
2	305.80	0.00	0.00	0.00	108.91	1,327.71	782.46	632.17	361.15	679.81	128.45	374.80	2
3	305.80	0.00	0.00	0.00	133.36	1,327.71	594.26	348.19	382.87	664.90	0.00	259.30	3
4	305.80	0.00	0.00	0.00	158.74	1,287.01	481.34	245.84	411.91	577.52	0.00	259.30	4
5	305.80	0.00	0.00	0.00	178.83	1,278.60	882.82	134.10	411.91	538.30	0.00	259.30	5
6	305.80	0.00	0.00	0.00	158.69	1,278.60	882.82	0.00	411.91	0.00	0.00	186.40	6
7	305.80	0.00	0.00	0.00	231.92	1,319.41	888.04	0.00	631.32	73.52	0.00	148.92	7
8	305.80	0.00	0.00	0.00	258.75	1,343.92	918.39	0.00	0.00	110.26	0.00	152.67	8
9	305.80	0.00	0.00	0.00	267.20	1,532.23	933.77	0.00	132.52	110.26	0.00	121.25	9
10	305.80	0.00	0.00	0.00	267.20	1,262.06	933.77	0.00	682.41	110.26	0.00	102.39	10
11	241.51	0.00	0.00	0.00	267.20	1,219.30	933.77	0.00	572.30	89.05	0.00	102.39	11
12	262.93	0.00	0.00	0.00	267.20	1,214.38	1,006.33	0.00	572.30	65.35	0.00	102.39	12
13	262.93	0.00	0.00	0.00	267.20	1,214.38	1,210.78	0.00	572.30	65.35	0.00	87.43	13
14	63.42	0.00	0.00	0.00	267.04	1,177.07	1,298.57	0.00	214.61	0.00	0.00	26.42	14
15	0.00	0.00	0.00	0.00	268.98	1,103.80	1,298.04	0.00	0.00	0.00	75.02	0.00	15
16	0.00	0.00	0.00	0.00	268.98	1,073.28	1,211.71	309.94	0.00	0.00	120.04	0.00	16
17	0.00	0.00	0.00	0.00	268.98	1,077.12	1,155.48	324.96	546.05	0.00	120.04	0.00	17
18	0.00	0.00	0.00	0.00	279.44	1,079.43	1,131.90	568.26	681.66	0.00	120.04	0.00	18
19	0.00	0.00	0.00	0.00	288.93	1,079.43	936.86	751.30	681.66	0.00	225.21	0.00	19
20	0.00	0.00	0.00	0.00	288.93	1,079.43	843.11	682.74	881.66	157.41	309.31	246.97	20
21	0.00	0.00	0.00	0.00	404.46	1,117.45	890.04	844.38	1,263.70	251.87	309.31	317.29	21
22	0.00	0.00	0.00	0.00	489.56	1,146.48	715.94	844.38	1,188.92	251.87	475.28	202.02	22
23	0.00	0.00	0.00	0.00	489.56	1,138.92	321.19	815.07	1,138.97	251.87	342.21	157.53	23
24	0.00	0.00	0.00	0.00	929.49	1,164.14	122.37	787.53	1,118.67	465.88	372.61	94.84	24
25	0.00	0.00	0.00	68.07	1,174.65	1,164.14	105.35	781.56	1,038.20	605.55	390.85	57.22	25
26	0.00	0.00	0.00	108.91	778.37	1,164.14	109.25	841.30	983.79	430.49	466.44	57.22	26
27	0.00	0.00	0.00	108.91	964.89	1,164.14	294.91	923.77	983.79	129.08	511.79	57.22	27
28	0.00	0.00	0.00	108.91	1,179.53	1,011.66	548.49	937.06	1,031.14	206.52	511.79	57.22	28
29	0.00	0.00	0.00	0.00	1,170.01	820.18	598.35	736.47	1,261.15	225.30	511.79	57.22	29
30	0.00	0.00	0.00	0.00	1,170.01	760.48	517.04	332.51	1,426.82	236.57	511.79	21.46	30
31	0.00	0.00	0.00	0.00	1,268.95	486.26	486.26	0.00	652.39	194.25	0.00	0.00	31
TOTAL	4,074.59	0.00	0.00	394.80	14,675.80	35,300.08	23,712.83	12,956.65	20,694.68	6,974.53	5,629.91	4,013.17	

THE YEAR 128,426.84 acre-feet

NOTE: These values include 289.22 acre-feet of well augmentation water.

APPENDIX "B-12"

DEMANDS BY KANSAS FOR
AGREEMENT ACCOUNT WATER IN
JOHN MARTIN RESERVOIR

Demands by Kansas for Agreement Account Water in John Martin Reservoir
(Not including transit loss releases)
Report Year ending October 31, 1966
Source: Operations Secretary, Arkansas River Compact Administration
(acre-feet)

DAY	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	Day
1	0.00	0.00	0.00	0.00	0.00	1,190.10	0.00	0.00	396.70	1,190.10	0.00	0.00	1
2	0.00	0.00	0.00	0.00	0.00	1,190.10	0.00	0.00	793.40	1,190.10	0.00	0.00	2
3	0.00	0.00	0.00	0.00	0.00	1,190.10	0.00	0.00	793.40	1,190.10	0.00	0.00	3
4	0.00	0.00	0.00	0.00	0.00	1,190.10	0.00	0.00	793.40	396.70	0.00	0.00	4
5	0.00	0.00	0.00	0.00	0.00	1,190.10	0.00	0.00	793.40	0.00	0.00	0.00	5
6	0.00	0.00	0.00	0.00	0.00	1,190.10	0.00	0.00	793.40	0.00	0.00	0.00	6
7	0.00	0.00	0.00	0.00	0.00	1,190.10	0.00	0.00	793.40	0.00	0.00	0.00	7
8	0.00	0.00	0.00	0.00	0.00	1,190.10	0.00	0.00	496.88	0.00	0.00	0.00	8
9	0.00	0.00	0.00	0.00	0.00	1,190.10	0.00	0.00	793.40	0.00	0.00	0.00	9
10	0.00	0.00	0.00	0.00	0.00	1,190.10	0.00	0.00	793.40	0.00	0.00	0.00	10
11	0.00	0.00	0.00	0.00	0.00	1,190.10	0.00	0.00	793.40	0.00	0.00	0.00	11
12	0.00	0.00	0.00	0.00	0.00	942.16	0.00	0.00	793.40	0.00	0.00	0.00	12
13	0.00	0.00	0.00	0.00	0.00	793.40	363.64	0.00	793.40	0.00	0.00	0.00	13
14	0.00	0.00	0.00	0.00	0.00	793.40	793.40	0.00	793.40	0.00	0.00	0.00	14
15	0.00	0.00	0.00	0.00	0.00	793.40	793.40	0.00	793.40	0.00	0.00	0.00	15
16	0.00	0.00	0.00	0.00	0.00	793.40	793.40	0.00	1,094.81	0.00	0.00	0.00	16
17	0.00	0.00	0.00	0.00	0.00	793.40	793.40	0.00	1,190.10	0.00	0.00	0.00	17
18	0.00	0.00	0.00	0.00	0.00	793.40	793.40	0.00	1,190.10	0.00	0.00	0.00	18
19	0.00	0.00	0.00	0.00	0.00	793.40	793.40	462.82	1,190.10	0.00	0.00	0.00	19
20	0.00	0.00	0.00	0.00	0.00	793.40	793.40	793.40	1,140.51	0.00	0.00	0.00	20
21	0.00	0.00	0.00	0.00	0.00	793.40	793.40	793.40	793.40	0.00	0.00	0.00	21
22	0.00	0.00	0.00	0.00	0.00	426.76	1,041.34	793.40	793.40	0.00	0.00	0.00	22
23	0.00	0.00	0.00	0.00	0.00	793.40	1,190.10	793.40	264.47	0.00	0.00	0.00	23
24	0.00	0.00	0.00	0.00	0.00	793.40	1,041.34	793.40	0.00	0.00	0.00	0.00	24
25	0.00	0.00	0.00	0.00	0.00	793.40	793.40	793.40	0.00	0.00	0.00	0.00	25
26	0.00	0.00	0.00	0.00	0.00	793.40	297.53	793.40	793.40	0.00	0.00	0.00	26
27	0.00	0.00	0.00	0.00	0.00	793.40	793.40	793.40	793.40	0.00	0.00	0.00	27
28	0.00	0.00	0.00	0.00	0.00	1,024.81	0.00	496.88	793.40	0.00	0.00	0.00	28
29	0.00	0.00	0.00	0.00	0.00	1,190.10	0.00	793.40	791.02	0.00	0.00	0.00	29
30	0.00	0.00	0.00	0.00	0.00	1,190.10	0.00	0.00	1,190.10	0.00	0.00	0.00	30
31	0.00	0.00	0.00	0.00	0.00	1,190.10	0.00	0.00	1,190.10	0.00	0.00	0.00	31
TOTAL	0.00	0.00	0.00	0.00	0.00	10,181.97	23,454.89	13,653.10	9,190.22	21,568.19	3,967.00	0.00	

THE YEAR 82,015.37 acre-feet

APPENDIX "B-13"

STATELINE FLOWS ON DAYS OF
KANSAS DEMANDS

Arkansas River at the State Line
State Line Flows of Days of Kansas Demands
Report-Year ending October 31, 1968
(cubic feet per second)

DAY	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	Day
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
TOTAL													
cfs	0.00	0.00	0.00	0.00	5,088.06	15,945.55	6,748.68	6,286.87	15,913.79	9,816.89	0.00	0.00	
ac. ft.	0.00	0.00	0.00	0.00	9,983.00	31,628.00	17,363.00	12,470.00	31,565.00	19,472.00	0.00	0.00	
THE YEAR:	122,481.00	acre-feet											

The daily discharges are the sum of the flows of the Arkansas River near Coolidge, Kansas and the Frontier Ditch

APPENDIX "B-14a"

DIVERSION BY DITCHES IN COLORADO WATER DISTRICT 14

Diversion by Ditches in Colorado
Water District 14
Report-Year ending October 31, 1986
Source: Water Commissioner's Monthly Reports
(acre-feet)

NAME OF CANAL	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	YEAR
Bessemer (River)	2,855.91	0.00	0.00	0.00	2,370.46	4,111.99	5,357.47	13,640.53	14,913.94	6,831.57	7,987.57	4,454.55	62,274.01
Res. or Imported	0.00	0.00	0.00	0.00	0.00	3,415.02	3,837.67	51.99	213.62	5,195.38	433.00	0.00	13,046.68
Total Bessemer	2,855.91	0.00	0.00	0.00	2,370.46	7,527.01	9,195.14	13,692.52	15,127.56	12,028.95	8,370.57	4,454.55	75,320.69
Minnequa-Ft. Union	7,382.59	2,606.72	6,438.64	5,017.26	5,624.41	5,221.95	7,275.68	6,245.05	6,148.45	7,019.61	4,410.51	7,383.78	70,774.66
West Pueblo (River)	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
Excelsior (River)	0.00	0.00	0.00	0.00	0.00	249.92	47.60	357.03	333.23	226.12	0.00	0.00	1,213.90
Collier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	396.70	0.00	0.00	0.00	0.00	396.70
Colorado Canal	613.87	0.00	6,733.51	7,380.35	1,288.75	0.00	24.83	22,758.95	8,667.89	3,468.68	5,437.47	303.95	56,680.35
Res. or Imported	0.00	0.00	0.00	0.00	0.00	8,648.72	10,562.51	6,618.66	14,520.91	10,944.82	1,097.47	968.75	53,387.94
Total: Colo. Canal	613.87	0.00	6,733.51	7,380.35	1,288.75	8,648.72	10,587.44	31,375.61	23,188.80	14,414.50	6,534.94	1,300.70	112,068.19
Highline (River)	3,392.18	0.00	0.00	860.84	5,475.27	5,809.39	8,211.29	24,438.29	25,523.50	14,067.43	9,411.81	7,581.67	104,791.67
Res. or Imported	0.00	0.00	0.00	0.00	2,666.09	5,645.52	2,207.64	1,101.20	1,960.32	1,960.32	0.00	0.00	14,642.07
Total: Highline	3,392.18	0.00	0.00	860.84	8,131.36	11,454.91	10,418.93	25,539.49	26,584.80	16,077.75	9,411.81	7,581.67	119,433.74
Oxford Farmer's (River)	633.83	0.00	0.00	152.17	2,713.49	828.21	3,468.29	5,371.18	8,652.06	5,659.42	3,117.45	3,081.35	33,077.45
Res. or Imported	0.00	0.00	0.00	0.00	52.92	1,965.35	87.33	0.00	0.00	0.00	0.00	0.00	2,045.60
Total: Oxford Farmers	633.83	0.00	0.00	152.17	2,766.41	2,733.56	3,555.62	5,371.18	8,652.06	5,659.42	3,117.45	3,081.35	35,123.05
River District #14	14,678.38	2,606.72	13,172.15	13,410.62	17,473.40	16,221.47	24,385.26	72,207.73	63,639.07	37,283.83	30,314.81	22,865.30	329,268.74
Res. or Import Dist. #14	0.00	0.00	0.00	0.00	2,709.01	19,514.61	16,665.15	9,769.85	15,775.83	19,130.52	1,530.47	968.75	86,122.19
Total: District #14	14,678.38	2,606.72	13,172.15	13,410.62	20,182.41	35,736.06	41,050.41	81,977.58	79,414.90	55,424.35	31,845.28	23,834.05	414,330.93

APPENDIX "B-14b"

DIVERSION BY DITCHES IN
COLORADO WATER DISTRICT 17

Diversion by Ditches in Colorado
Water District 17
Report Year ending October 31, 1968
Source: Water Commissioner's Monthly Reports
(acre-feet)

NAME OF CANAL	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	YEAR
Otero	0.00	0.00	511.74	773.53	1,573.39	0.00	0.00	3,372.90	1,811.17	776.46	1,029.81	0.00	9,844.90
Res. or Imported	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
Total: Otero	0.00	0.00	511.74	773.53	1,573.39	0.00	0.00	3,372.90	1,811.17	776.46	1,029.81	0.00	9,844.90
Cadlin Canal (River)	2,897.30	0.00	0.00	0.00	7,909.46	10,343.14	12,262.36	13,573.92	16,008.16	14,801.77	9,335.06	8,469.60	86,817.87
Res. or Imported	472.85	0.00	0.00	126.46	3,861.59	4,206.09	4,123.86	58.50	27.43	4.64	0.00	0.00	13,053.43
Total: Cadlin	3,370.15	0.00	0.00	126.46	11,801.15	14,538.23	16,386.22	13,632.43	16,035.59	14,806.41	9,335.06	8,469.60	100,871.30
Hobbrook (River)	423.16	0.00	4,064.38	0.00	0.00	0.00	2,894.83	25,090.95	13,700.25	4,337.30	1,262.18	4,787.33	56,330.37
Res. or Imported	0.00	0.00	0.00	0.00	0.00	0.00	1,902.77	0.00	0.00	0.00	0.00	0.00	4,069.13
Total: Hobbrook	423.16	0.00	4,064.38	0.00	0.00	0.00	4,827.60	25,090.95	13,700.25	4,337.30	1,262.18	4,787.33	60,400.50
Rocky Ford	1,330.81	0.00	0.00	1,460.13	5,315.50	6,703.89	6,402.74	4,837.93	5,879.47	5,335.61	4,020.26	4,033.86	46,750.19
Ft. Lyon (storage)	19,535.49	28,373.97	29,632.76	15,417.75	0.00	0.00	0.00	46,983.17	6,549.53	0.00	0.00	0.00	145,499.66
Ft. Lyon (Riv.)	25,908.29	0.00	0.00	5,149.80	11,670.46	13,132.08	16,707.14	61,217.37	54,514.73	31,754.87	21,813.50	21,312.78	283,008.81
Res. or Imported	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
Kicking Bird	14,825.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14,825.23
Total: Ft. Lyon-K.B.	30,406.55	28,373.97	29,632.76	5,153.63	7,073.40	13,132.08	16,707.14	84,448.83	57,179.04	31,754.87	21,813.50	21,312.78	345,996.34
Las Animas Consol.	1,208.89	0.00	0.00	0.00	1,897.28	3,127.64	4,144.34	6,230.08	7,104.98	5,181.99	2,364.33	2,914.81	34,059.49
Native-District #17	51,298.94	28,373.97	33,235.88	22,831.00	28,561.19	33,326.75	43,441.41	161,278.32	105,585.27	62,388.00	39,656.19	41,438.37	600,361.29
Res. or Imported	472.85	0.00	0.00	126.46	3,861.59	4,206.09	6,026.63	58.50	27.43	4.64	0.00	0.00	17,125.94
Total: District #17	51,768.79	28,373.97	33,235.88	22,957.46	32,422.78	37,532.84	49,468.04	161,336.82	105,612.70	62,392.64	39,656.19	41,438.37	617,487.23
Native Dist. #14-#17	65,975.32	30,860.69	46,408.03	36,241.62	46,054.59	49,546.22	66,626.67	234,464.05	168,201.34	99,681.83	69,871.00	64,243.67	979,600.03
Res. or Imported Dist. #14-#17	472.85	0.00	0.00	126.46	6,600.60	23,809.70	22,721.78	9,859.35	15,903.26	18,135.16	1,530.47	3,183.50	102,246.13
Total Dist. #14-#17	66,448.17	30,860.69	46,408.03	36,368.08	52,655.19	73,357.92	89,348.45	244,323.40	184,104.60	117,816.99	71,391.47	67,427.17	1,081,846.16

*Bifurcation from Fort Lyon

APPENDIX "B-15"

DIVERSION BY DITCHES IN IN COLORADO WATER DISTRICT 67

Diversion by Ditches in Colorado Water District 67
Report-Year ending October 31, 1966
Source: Water Commissioners Monthly Reports
(Acre-Feet)

NAME OF CANAL	YEAR												
	NOV.	DEC.	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	
Fort Bent	446.28	5.95	0.00	0.00	1,877.71	3,623.84	3,901.54	1,680.74	5,481.01	2,870.72	973.14	1,711.36	22,424.20
Keesee Ditch	0.00	0.00	0.00	0.00	231.87	1,198.83	1,295.63	680.74	1,431.75	948.91	388.96	418.72	6,566.81
Amity	4,187.43	0.00	0.00	0.00	3,622.20	22,078.24	18,416.80	5,783.89	16,647.52	9,431.63	3,190.39	6,710.18	90,237.37
Lamar	1,112.74	212.23	0.00	359.61	4,391.47	6,793.49	8,400.12	5,512.15	10,133.70	4,597.75	4,776.27	3,972.75	50,282.28
Hyde	0.00	0.00	0.00	0.00	41.65	178.52	200.33	204.30	243.95	313.39	47.80	226.12	1,467.86
Marvel	0.00	0.00	0.00	0.00	2,213.59	1,769.28	102.35	75.87	0.00	0.00	0.00	0.00	4,161.19
X, Y, & Graham	0.00	0.00	0.00	0.00	1,245.64	3,661.15	3,397.54	1,819.46	3,414.60	1,253.57	794.59	1,000.73	16,677.28
Buffalo	0.00	0.00	0.00	0.00	2,275.07	3,638.07	4,196.09	2,172.43	1,753.41	1,680.75	2,318.71	2,235.49	20,660.02
TOTAL: District 67	5,716.45	218.18	0.00	359.61	15,689.20	43,143.52	39,909.80	18,179.68	39,107.94	21,286.72	12,499.68	16,355.35	212,476.11
Trans. Mun. Diversions	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
GRAND TOTAL	5,716.45	218.18	0.00	359.61	15,689.20	43,143.52	39,909.80	18,179.68	39,107.94	21,286.72	12,499.68	16,355.35	212,476.11

APPENDIX "B-16"

**DIVERSION BY DITCHES IN KANSAS
STATELINE TO GARDEN CITY**

Diversion by Ditches in Kansas
StateLine to Garden City
Report-Year ending October 31, 1966
Source: Frontier Ditch: U.S.G.S. Records
Other Ditches: Kansas Division of Water Resources Records

NAME OF CANAL	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	YEAR
Frontier	182.00	0.00	0.00	0.00	0.00	1,382.50	1,872.42	523.13	1,991.59	582.33	75.77	489.92	7,109.66*
Ft. Aubrey Canal	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
Total StateLine to Syracuse	182.00	0.00	0.00	0.00	0.00	1,382.50	1,872.42	523.13	1,991.59	582.33	75.77	489.92	7,109.66
Amazon Canal	0.00	0.00	0.00	0.00	1,394.00	11,550.00	5,470.00	3,889.00	8,045.00	7,648.00	2,035.00	0.00	39,821.00
Great Eastern Canal	0.00	0.00	4,217.00	0.00	1,555.00	9,035.00	5,655.00	3,102.00	6,504.00	7,690.00	2,214.00	1,876.00	41,785.00
South Side Ditch	0.00	0.00	0.00	0.00	0.00	7,511.00	2,227.00	2,610.00	6,547.00	3,219.00	3,310.00	0.00	25,434.00
Farmers Ditch	0.00	0.00	0.00	0.00	1,783.00	3,548.00	4,066.00	3,475.00	1,964.00	4,374.00	3,632.00	0.00	22,844.00
Garden City Canal	0.00	0.00	0.00	0.00	121.00	520.00	381.00	240.00	518.00	645.00	518.00	278.00	3,221.00
Total Syracuse To Garden City	0.00	0.00	4,217.00	0.00	4,853.00	32,164.00	17,799.00	13,116.00	23,570.00	23,516.00	11,709.00	2,154.00	133,096.00
Total StateLine To Garden City	182.00	0.00	4,217.00	0.00	4,853.00	33,546.50	19,671.42	13,639.13	25,561.59	24,106.33	11,784.77	2,643.92	140,307.66

*3,422.00 acre-feet returned directly to the river.

APPENDIX "B-17"

TRANSMOUNTAIN DIVERSIONS

Transmountain Diversions into the Arkansas Basin 3/
 Report-year ending October 31, 1986
 Source: Division Engineer
 Colorado Water Division No. 2
 (acre-feet)

STRUCTURE	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	TOTAL
Twin Lake Tunnel	533.50	204.06	44.77	27.56	23.87	516.30	8714.15	28996.69	10128.34	0.00	0.00	191.44	49779.70
Colo. Springs-54.65%													
Pueblo-23.14%													
Pueblo West-11.56%													
1/Aurora-4.90%													
Individuals-5.75%													
Homestake Tunnel								4968.25	3010.59	1763.79	94.75	0.00	16854.03
1/Aurora-50%								-1700.00					
Colo. Springs-50%								2132.35	564.35	88.80	0.00	0.00	3861.81
Wurtz Ditch													
Pueblo Bd.								100.87	31.56	5.38	0.00	0.00	218.81
Water Works-100%													
Lariatpur Ditch													
Catlin Consolidated								629.05	120.34	0.00	0.00	0.00	1073.24
Co-100%								2.06	321.79				
Ewing Ditch													
Pueblo Bd.													
Water Works-100%													
Columbine Ditch								1266.45	325.68	50.93	0.00	0.00	1916.88
Pueblo Bd.													
Water Works-100%													
Bousted Tunnel								21458.28	4821.93	1306.30	0.00	0.00	31748.20
Southeast Colo.													
WCD-100%													
Busk-Ivanhoe System/ Carlton Tunnel								2518.09	962.34	516.05	174.85	207.85	5495.16
Pueblo Bd.													
Water Works-50%													
Busk-Ivanhoe Inc.-50%													
1/Aurora-98%													
Highline Individuals-2%													

1410.00	1315.00	1473.00	884.00	980.00	514.00	679.00	494.00	819.00	267.00	446.00	198.00	9223.00
1749.50	1519.06	1517.77	911.56	1013.87	1102.19	24068.47	62393.03	20784.13	3998.34	715.60	586.29	129288.83
TOTAL												

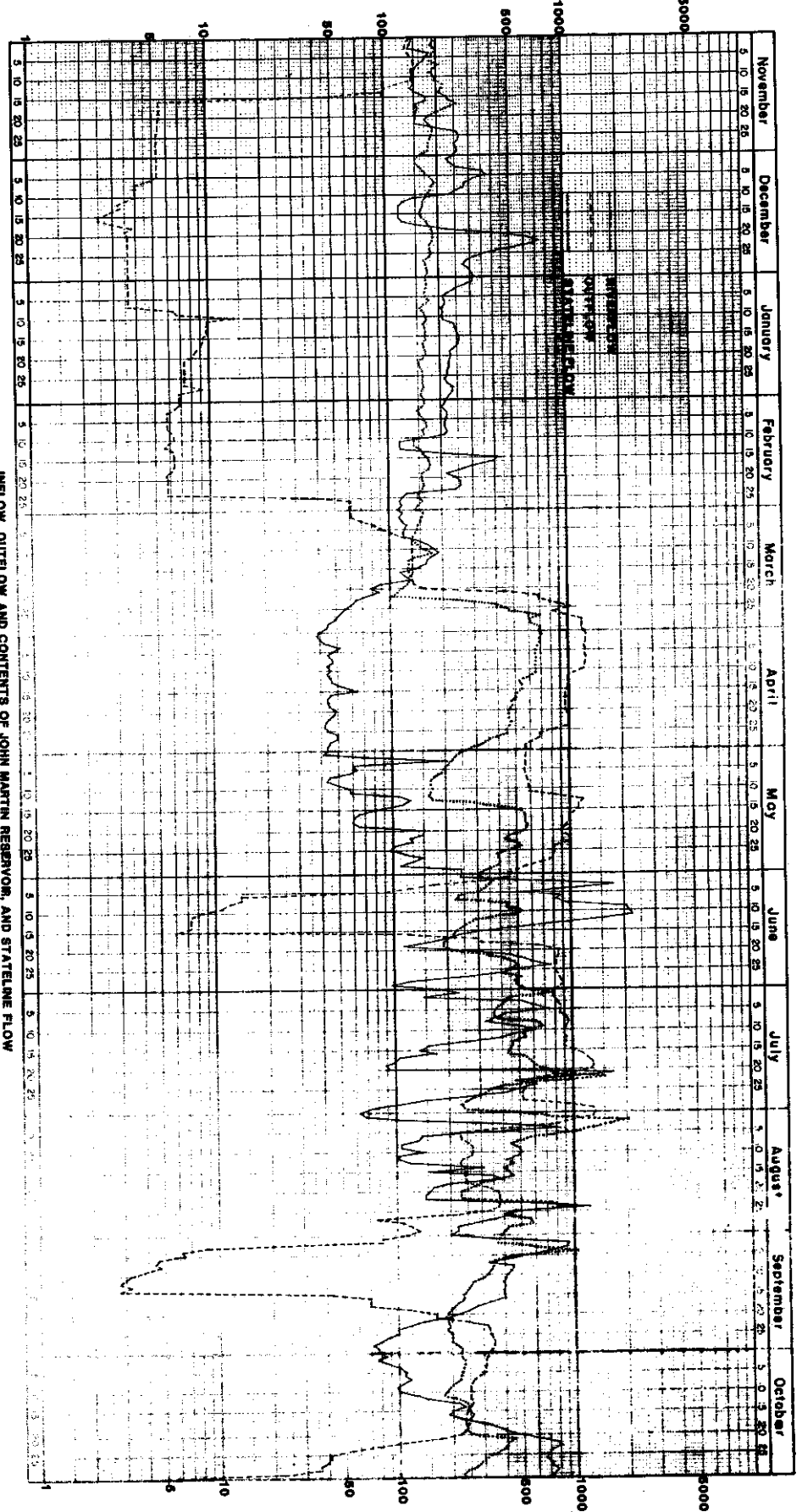
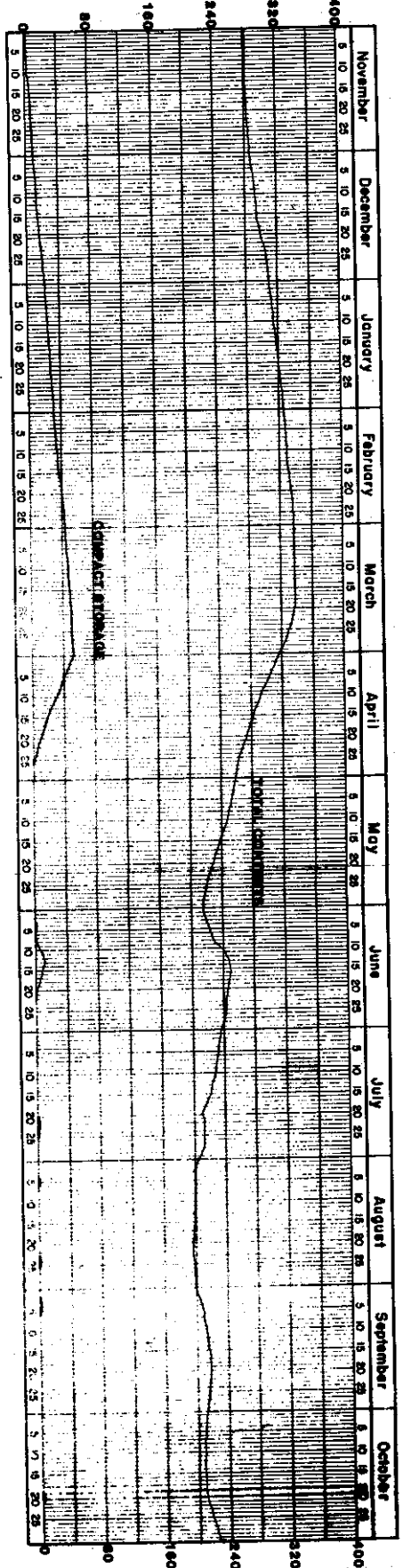
NOTES:

- 1) Aurora diverted 1700 af during June from a combination of Twin Lake, Busk-Ivanhoe, and Homestake Tunnels. Aurora made no other transmountain diversions in compact year 1968. Total diversions for June, 1968 should be reduced by 1700 af to reflect water that went to Aurora.
- 2) Blue River Project values from May 1, 1967 letter from U.S. Bureau of Reclamation to Colorado Springs. Values show amount of water "delivered into Colorado Springs potable water system" from the Blue and So. Platte Rivers by either direct flow or transmountain exchange.
- 3) Transmountain water diverted into the Arkansas Basin through a facility is generally delivered to some type of storage prior to use. The values reported reflect water as it is diverted into the basin, generally to storage.

APPENDIX "B-18"

SUMMARY TABULATION

LOCATION	Summary Tabulation Report Year November 1, 1965 to October 31, 1966												
	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	YEAR
Arkansas River at Las Animas, Colorado - cfs - a.f.	3,796.00 7,510.00	8,274.00 16,411.00	6,244.00 12,386.00	5,504.00 10,917.00	2,946.00 5,746.00	1,137.00 2,255.00	2,713.00 5,381.00	16,379.00 32,488.00	9,876.00 17,606.00	4,561.00 9,047.00	7,598.00 15,071.00	9,735.00 19,309.00	77,705.00 154,136.00
Purgatoire River near Las Animas, Colorado - cfs - a.f.	1,601.00 3,176.00	963.00 1,712.00	948.00 1,880.00	302.00 615.00	628.40 948.00	241.30 479.00	470.10 932.00	4,770.30 9,462.00	2,781.70 5,478.00	4,113.70 8,160.00	2,472.00 4,903.00	1,690.00 3,729.00	20,387.40 41,372.00
River Flow Into John Martin Reservoir - cfs - a.f.	5,387.00 10,685.00	9,137.00 18,123.00	7,192.00 14,265.00	5,813.90 11,533.00	3,324.40 6,594.00	1,375.30 2,734.00	3,183.10 6,314.00	21,149.30 41,860.00	11,837.70 23,083.00	8,874.70 17,208.00	10,070.00 19,874.00	11,615.00 23,039.00	98,362.40 196,496.00
Contents of John Martin Reservoir at end of Month - a.f.	267,066.00	309,666.00	325,200.00	339,448.00	316,830.00	258,806.00	215,822.00	236,386.00	265,313.00	199,782.00	212,045.00	225,954.00	
Net Change in Reservoir contents - a.f.	5,104.00	23,600.00	15,544.00	11,249.00	(19,619.00)	(58,024.00)	(42,964.00)	20,664.00	(31,075.00)	(5,531.00)	12,261.00	13,911.00	
Outflow from John Martin Reservoir - cfs - a.f.	2,007.80 3,982.00	118.70 235.00	224.80 446.00	365.80 725.00	12,712.00 25,314.00	30,041.00 59,596.00	23,754.00 47,116.00	11,741.90 23,290.00	27,921.00 55,381.00	10,213.00 20,267.00	3,639.70 7,614.00	5,918.30 11,739.00	128,864.80 259,586.00
Diversion in District 97, Colorado - a.f.	5,716.45	218.18	0.00	559.61	15,699.20	43,143.53	39,909.80	18,179.88	39,107.94	21,286.72	12,469.66	16,355.35	212,476.11
Arkansas River at Colorado- Kansas Stateline - cfs - a.f.	5,659.82 11,623.00	5,335.00 10,622.00	5,055.00 10,027.00	4,365.00 8,658.00	7,840.00 15,551.00	15,947.00 31,631.00	10,613.00 21,051.00	10,334.70 20,896.00	15,914.08 31,566.00	18,428.03 36,553.00	8,983.30 17,838.00	8,111.00 16,088.00	117,016.43 231,104.00
Diversion by Ditches in Kansas Stateline to Garden City - a.f.	182.00	0.00	4,217.00	0.00	4,853.00	33,546.50	19,671.42	13,639.13	25,561.59	24,108.33	11,784.77	2,643.92	140,207.66



INFLOW, OUTFLOW AND CONTENTS OF JOHN MARTIN RESERVOIR, AND STATELINE FLOW
 COMPACT YEAR 1986
 NOVEMBER 1, 1986 TO OCTOBER 31, 1986