

**Nineteenth Annual Report**

**ARKANSAS RIVER  
COMPACT  
ADMINISTRATION**

**(1967)**

For the Report Year November 1, 1966 to October 31, 1967

**LAMAR, COLORADO**

January 16, 1968



**THE ADMINISTRATION**

WILBUR L. HECKLER, Chairman and Representative of the United States

ERNEST HOFMEISTER, GEORGE F. REYHER and FELIX L. SPARKS  
for Colorado

CARL E. BENTRUP, LOGAN N. GREEN and ROBERT V. SMRHA  
for Kansas



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**Annual Report of  
ARKANSAS RIVER COMPACT  
ADMINISTRATION**

(1967)

**Report-Year November 1, 1966 to October 31, 1967**

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

Sirs:

Pursuant to Article VII of the Arkansas River Compact, the Arkansas River Compact Administration submits its report for the Report-year November 1, 1966 through October 31, 1967 as follows:

**1. Members of the Administration**

**Representative of the United States:**

Francis M. Bell (November 1, 1966 - December 30, 1966)  
Wilbur L. Heckler (January 25, 1967 - October 31, 1967)

**Colorado Representatives:**

Ernest Hofmeister, Lamar, Colorado  
George F. Reyher, McClave, Colorado  
Felix L. Sparks, Denver, Colorado

**Kansas Representatives:**

Carl E. Bentrup, Deerfield, Kansas  
Logan N. Green, Garden City, Kansas  
Robert V. Smrha, Topeka, Kansas

**2. Officers of the Administration**

**Chairman:**

Francis M. Bell (November 1, 1966 - December 30, 1966)  
Wilbur L. Heckler (January 25, 1967 - October 31, 1967)

**Vice-Chairman:**

Carl E. Bentrup

Secretary:

Lane L. Hackett

Treasurer:

Ernest Hofmeister

3. Standing Committees

Administrative and Legal Committees:

Logan N. Green (Chairman)  
George F. Reyher

Engineering Committee:

Robert V. Smrha (Chairman)  
Felix L. Sparks

Operations Committee:

Ernest Hofmeister (Chairman)  
Carl E. Bentrup

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

4. Meetings

|                   |                 |                 |
|-------------------|-----------------|-----------------|
| December 13, 1966 | Lamar, Colorado | Annual Meeting  |
| June 6, 1967      | Lamar, Colorado | Special Meeting |

5. Fiscal

|                                                                                 |                  |
|---------------------------------------------------------------------------------|------------------|
| (a) Balance on Hand November 1, 1966. ....                                      | \$ 4,709.71      |
| (b) Receipts:                                                                   |                  |
| State of Colorado. ....                                                         | \$7,404.00       |
| State of Kansas. ....                                                           | <u>4,936.00</u>  |
|                                                                                 | <u>12,340.00</u> |
| (c) Total Funds Available. ....                                                 | \$17,049.71      |
| (d) Disbursements by the Administration - November 1, 1966 to October 31, 1967: |                  |

| Voucher                      |     |                                                                  |            |
|------------------------------|-----|------------------------------------------------------------------|------------|
| Date                         | No. | Payee and Purpose                                                | Amount     |
| 11/ 1/66                     | 474 | Telephone Co. - October Service. . . . .                         | \$ 17.22   |
| 12/ 1/66                     | 475 | Telephone Co. - November Service . . . . .                       | 15.16      |
| 12/27/66                     | 476 | Treasurer of the U. S. - 4th Qtr. FICA. . . . .                  | 25.20      |
|                              | 477 | Void                                                             |            |
| 1/ 4/67                      | 478 | Marvin Strait Agency - Audit & Photo Co. . . . .                 | 89.65      |
| 1/ 4/67                      | 479 | Telephone Co. - December Service. . . . .                        | 13.02      |
| 1/ 4/67                      | 480 | Lane L. Hackett - 4th Qtr. Salary & Travel. . . . .              | 341.96     |
| 1/23/67                      | 481 | U. S. Geological Survey - 2nd Qtr. Agreement                     | 500.00     |
| 2/ 3/67                      | 482 | Lamar Typewriter Shop-Office Supplies. . . . .                   | 2.38       |
| 2/ 3/67                      | 483 | Telephone Co. - January Service. . . . .                         | 14.65      |
| 3/ 4/67                      | 484 | Telephone Co. - February Service. . . . .                        | 11.65      |
| 4/ 1/67                      | 485 | Telephone Co. - March Service. . . . .                           | 12.41      |
| 4/ 1/67                      | 486 | Peerless Printing Co. - Printing<br>Annual Report. . . . .       | 748.00     |
| 4/ 1/67                      | 487 | Treasurer of the U. S. - 1st Qtr. FICA. . . . .                  | 26.40      |
| 4/ 1/67                      | 488 | Lane L. Hackett - 1st Qtr. Salary. . . . .                       | 286.80     |
| 5/ 1/67                      | 489 | Telephone Co. - April Service. . . . .                           | 14.65      |
| 5/13/67                      | 490 | U.S.G.S. - 3rd Qtr. Agreement. . . . .                           | 500.00     |
| 5/13/67                      | 491 | Lane L. Hackett - Postage & Travel. . . . .                      | 33.92      |
| 6/ 3/67                      | 492 | Robinson Prining - Office Supplies. . . . .                      | 34.50      |
| 6/ 3/67                      | 493 | Telephone Co. - May Service. . . . .                             | 21.44      |
| 7/ 1/67                      | 494 | Telephone Co. - June Service. . . . .                            | 23.92      |
| 7/ 1/67                      | 495 | U. S. Geological Survey - Fourth Quarter<br>Agreement. . . . .   | 500.00     |
| 7/ 1/67                      | 496 | Lane Hackett - Fourth Quarter Salary &<br>Travel. . . . .        | 331.60     |
|                              | 496 | Void                                                             |            |
| 7/11/67                      | 498 | Treasurer of the United States - Fourth<br>Quarter FICA. . . . . | 26.40      |
| 7/11/67                      | 499 | Robinson Printing - Office Supplies. . . . .                     | 38.00      |
| 7/ 67                        |     | First National Bank - Service Charge. . . . .                    | .50        |
|                              | 500 | Void                                                             |            |
| 8/ 3/67                      | 1   | Telephone Co. - July Service. . . . .                            | 19.86      |
| 8/ 3/67                      | 2   | Robinson-Merrill Printing - Office Supplies. . . . .             | 11.00      |
| 9/ 5/67                      | 3   | Telephone Co. - August Service. . . . .                          | 22.96      |
| 9/ 5/67                      | 4   | Milne-Hill Agents - Treasurer Bond. . . . .                      | 15.00      |
| 10/ 2/67                     | 5   | Telephone Co. - September Service. . . . .                       | 21.09      |
| 10/ 2/67                     | 6   | Lane Hackett - First Quarter Salary & Travel                     | 377.40     |
| 10/ 2/67                     | 7   | Treasurer of the U. S. - First Quarter FICA. . . . .             | 26.40      |
| Total Disbursements. . . . . |     |                                                                  | \$4,123.14 |

|                                  |            |
|----------------------------------|------------|
| Balance on Hand November 1, 1966 | \$4,709.71 |
| Deposit - State of Colorado      | 7,404.00   |
| Deposit - State of Kansas        | 4,936.00   |

|               |             |
|---------------|-------------|
| Disbursements | \$17,049.71 |
|               | 4,123.14    |

|                                      |             |
|--------------------------------------|-------------|
| (e) Balance on Hand October 31, 1967 | \$12,926.57 |
|--------------------------------------|-------------|

- (f) At the Special Meeting held June 6, 1967 the Compact Administration adopted the following budget for the Fiscal Year July 1, 1968:

|                                                          |            |
|----------------------------------------------------------|------------|
| Personal Services. . . . .                               | \$3,875.00 |
| Secretary Salary. . . . .                                | \$1,500.00 |
| Social Security. . . . .                                 | 75.00      |
| Gage Reports. . . . .                                    | 2,200.00   |
| Professional Services (audit). . . . .                   | 100.00     |
| Capital Outlay                                           | 300.00     |
| Maintenance and Operation                                | 2,315.00   |
| Bond (Treasurer). . . . .                                | 15.00      |
| Printing. . . . .                                        | 900.00     |
| Official Publications. . . . .                           | 100.00     |
| Travel Expenses. . . . .                                 | 500.00     |
| Typing and Mailing. . . . .                              | 100.00     |
| Investigation & Inspection. . . . .                      | 100.00     |
| Telephone and Telegraph. . . . .                         | 300.00     |
| Office Supplies. . . . .                                 | 300.00     |
| Total Proposed Budget 1968-1969. . . . .                 | \$6,490.00 |
| Estimated Carry-over as of June 30, 1968. . . . .        | 1,000.00   |
| Total to be appropriated by Colorado and Kansas. . . . . | \$5,490.00 |

in accordance with Article VIII E (1), the amount of such budget payable by the State of Colorado is sixty percent thereof, or \$3,294.00, and the amount payable by the State of Kansas is forty percent thereof, or \$2,196.00.

- (g) Pursuant to Provisions of the Compact (Article VIII-E (3)) and of the By-Laws of the Administration (Article VII (5)), the receipts and disbursements of the Administration have been audited for the period commencing November 1, 1966 through October 31, 1967 the end of the Report-year. The report of such audit is hereto attached as Appendix "A."

#### 6. Cooperative Studies and Activities

- (a) Article VIII G (1) of the 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 waters 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 analyses and compilation of the hydrologic data presented in this report and used in the administration of the Compact. 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.

#### 7. Water Supply, Reservoir Operation and Hydrologic Data.

At the beginning of the Compact Year, the water stored in John Martin Reservoir was 186,100 acre feet at midnight on October 31, 1966. However, because of a demand on the reservoir by Colorado through October 31, routine operations of closing the gates was not completed until 8:30 A.M. on November 1, allowing 311 acre feet to be released in the early morning hours. The carryover storage from the 1965 flood plus 1966 runoff was still of considerable magnitude being fourth in size since the reservoir has been in operation.

Inflow into the reservoir during the winter storage months (Nov. 1, 1966 through March 31, 1967) was 14,410 acre feet. Releases during the same period were 4,417 acre feet which included 311 acre feet mentioned above, 3,519 acre feet river flow demanded by Colorado, and 587 acre feet seepage past the dam when the gates were closed. Colorado demand for river flow averaged about 25 c.f.s. daily during the periods of November 1 through December 11, 1966, and February 20 through March 31, 1967. Storage in the reservoir at the beginning of the irrigation season April 1, 1967 was 197,949 acre feet at a gage height of 3834.10. However, the Corps of Engineers conducted a reservoir capacity resurvey during September 1966 and based on this data a new Area-Capacity Table was issued for the reservoir effective twenty-four hours later at midnight April 1, 1967 at a gage height of 3833.86 and a new capacity of 185,838 acre feet. The Corps of Engineers operational report for April 1 at 2400 hours indicates the amount released was 1920 acre feet to meet a demand of 2000 acre feet by Colorado and Kansas. Thus, the difference between the two area capacity tables was 10,191 acre feet, which represents the loss in storage space at this elevation due to siltation since the last survey in March 1962.

Heavy demands for water by both states continued through April and most of May. Rains the latter part of May caused the gates to be closed at 8:45 a.m. on May 30 and they remained closed until 8:45 a.m. on June 5. During the remainder of June and the first three weeks of July most of the Colorado demand and all of Kansas demand were satisfied by river flows. As a result of fluctuating reservoir inflow, eleven change orders were issued in June, seventeen in July and fourteen in August. During this period 50,536 acre-feet were stored concurrently with releases. This additional water in storage made up almost one-fifth of the total releases made in the irrigation season. John Martin Reservoir was not emptied during the year but water in storage at the end of the irrigation season on October 31, 1967, was 14,999 acre-feet.

Evaporation recorded from the class "A" Weather Bureau pan located at the dam was 71.91 inches for the period March 16, 1967, to October 31, 1967. The Corps of Engineers has computed evaporation from the reservoir to be 21,469 acre-feet during the Compact Year."

During the period April 1 through October 31, 1967 diversions by ditches in Colorado Water District No. 67 totaled 196,996 acre feet. Ditch diversions in Kansas for the same period amounted to 143,686 acre feet or about 79% of the state line flow during that time.

Measured inflow into John Martin Reservoir during the irrigation season was 103,480 acre feet, or about 64% of the eighteen year average. Reservoir releases during the irrigation season were 282,200 acre feet. Demands by the two states for irrigation water for the same period were 281,013 acre feet of which Colorado requested 57.4% and Kansas requested 42.6%. Total diversions were 58,482 acre feet greater than the reservoir releases for the season. Runoff from the area below the reservoir plus return flow from irrigation provided approximately 17% of the water diverted during the irrigation season.

Releases from the reservoir averaged 14.8 c.f.s. from November 1, 1966 to March 31, 1967, and 655 c.f.s. from April 1, 1966 to October 31, 1967. State line flows for the corresponding periods averaged 113 c.f.s. and 430 c.f.s. respectively.

The total discharge for the year at Garden City was 80,960 acre feet of which 33,670 acre feet or about 42% occurred as winter flow.

#### 8. GAGING STATIONS

In general, streamflow records of satisfactory accuracy were obtained at the Compact stations. Emphasis was continued on performing additional field work to increase the accuracy of the records and on providing current streamflow data to the Administration and State officials as required.

It will be noted that there are differences in the releases from the reservoir, as measured at the gaging station, and the daily demands by Colorado and Kansas. Perfect agreement cannot be obtained but the differences could be minimized by relocating the gaging station nearer to the dam and installing an artificial control. This would stabilize the rating and also reduce the time involved in adjusting the gates to the required release.

The gaging station on the Purgatoire River near Las Animas was moved back to its original location at the new bridge on State Highway 101 and new radio equipment put into operation in November 1966. A 60-inch galvanized corrugated metal shelter was installed near the south end of the bridge for the gas-purged manometer and the radio equipment.

The gaging station on the Arkansas River at Las Animas was moved 0.4 mile upstream to the new bridge on U. S. Highway 50 in April

1967. A concrete-block shelter was constructed near the south end of the bridge for the gas-purge manometer and the radio equipment.

Reconnaissance and test surveys were made for the location of the radio-relay stations between the Coolidge gaging stations and Garden City. Transmission was found to be good with two relay stations, one south of Syracuse and the other west of Lakin. The radio equipment for the two stations has been ordered from Leupold and Stevens Instruments, Inc.

The Administration approved a cooperative agreement with the U. S. Geological Survey for the fiscal year July 1, 1967 to June 30, 1968 in the amount \$11,500; \$5,750 for each party. Four thousand dollars is for the operation of the Compact station at Lamar, the additional field work at the other Compact stations, the providing of current streamflow data, and the preparation of records for the Annual Report. The remaining \$7,500 is for the procurement and installation of the new FM radio equipment.

9. Findings of Fact by the Administration

The Administration has had no occasion, during the period covered by this report, to make any Findings of Fact under the provisions of the Arkansas River Compact.

Respectfully submitted,

ARKANSAS RIVER COMPACT ADMINISTRATION  
BY:

WILBUR L. HECKLER

Representative of the United States and  
Chairman of the Administration

ERNEST HOFMEISTER  
GEORGE F. REYHER  
FELIX L. SPARKS

Colorado Members of the Administration

CARL E. BENTRUP  
LOGAN N. GREEN  
ROBERT V. SMRHA

Kansas Members of the Administration

Lamar, Colorado  
January 16, 1968

# APPENDICES

for

## ANNUAL REPORT OF THE ARKANSAS RIVER COMPACT ADMINISTRATION

For the Report-Year November 1, 1966 to October 31, 1967

- APPENDIX "A" — Auditor's Report
- APPENDIX "B-1" — Daily Discharges, Arkansas River near Pueblo, Colorado.
- APPENDIX "B-2" — Daily Discharges, Arkansas River at Las Animas, Colorado.
- APPENDIX "B-3" — Daily Discharges, Purgatoire River near Las Animas, Colorado.
- APPENDIX "B-4" — Inflow into John Martin Reservoir.
- APPENDIX "B-5" — Daily Contents, John Martin Reservoir.
- APPENDIX "B-6" — Outflow from John Martin Reservoir.
- APPENDIX "B-7" — Daily Discharges, Arkansas River at Lamar, Colorado.
- APPENDIX "B-8" — Daily Discharges, Arkansas River at Colorado-Kansas Stateline.
- APPENDIX "B-9" — Daily Discharges, Arkansas River at Garden City, Kansas.
- APPENDIX "B-10" — Demands by Colorado for Water.
- APPENDIX "B-11" — Demands by Kansas for Water.
- APPENDIX "B-12" — Stateline Flow on Days of Kansas Demand.
- APPENDIX "B-13" — Diversions by Ditches in Colorado Water Districts 14 and 17.
- APPENDIX "B-14" — Diversions by Ditches in Colorado Water District 67.
- APPENDIX "B-15" — Diversions by Ditches in Kansas, Stateline to Garden City.
- APPENDIX "B-16" — Summary Tabulation.
- APPENDIX "C" — Resolution Concerning Francis M. Bell
- APPENDIX "D" — Resolution Concerning William E. Leavitt

PLATE I — Graphs showing inflow, outflow and contents of John Martin Reservoir and Stateline Flow for Report-Year.

## **APPENDIX "A"**

\* \* \* \*

### **AUDITOR'S REPORT A. MARVIN STRAIT**

\* \* \* \*

Certified Public Accountant  
Johnson-Strait Building  
Lamar, Colorado 81052

December 4, 1967

To the Representatives  
Arkansas River Compact Administration  
Lamar, Colorado

Gentlemen:

We have examined the receipts and disbursements and changes in fund balances of the Arkansas River Compact Administration for the fiscal year ended October 31, 1967. Our examination was made 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.

We herewith submit the following financial statements:

EXHIBIT A — Statement of Receipts and Disbursements and Changes in Fund Balances for the Fiscal Year ended October 31, 1967.

SCHEDULE 1 — Statement of Receipts and Disbursements compared with Budget for the Budget Year July 1, 1966 to June 30, 1967.

#### **COMMENTS**

##### **EXHIBIT A**

The receipts and disbursements, on a cash basis, are shown in Exhibit A. The assessments for the current year were received in July and August of 1967.

The disbursements were all supported by vouchers, cancelled checks, and authorization for payment in the minutes of the compacts meetings.

# Schedule 1

The receipts and disbursements for the budget year of July 1, 1966, to June 30, 1967, as compared with the budgeted items for that year are shown in Schedule 1. This differs from the report year of November 1, 1966, to October 31, 1967, and is the result of combining the receipts and disbursements for the appropriate months of the current and previous report years.

Financial position of the administration as compared with last year is shown below:

## COMPARATIVE BALANCE SHEET

| ASSETS                               | OCT. 31, 1966      | OCT. 31, 1967       |
|--------------------------------------|--------------------|---------------------|
| Cash in Bank.....                    | \$ 4,709.71        | \$ 12,926.57        |
| Equipment.....                       | 767.50             | 767.50              |
| TOTAL ASSETS.....                    | <u>\$ 5,477.21</u> | <u>\$ 13,694.07</u> |
| LIABILITIES AND FUND BALANCES        |                    |                     |
| Expended Fund Balance - Equipment .. | \$ 767.50          | \$ 767.50           |
| Unexpended Fund Balance.....         | 4,709.71           | 12,926.57           |
| TOTAL LIABILITIES AND FUND           |                    |                     |
| BALANCES. ....                       | <u>\$ 5,477.21</u> | <u>\$ 13,694.07</u> |

## OPINION

In our opinion the Statement of Receipts and Disbursements and Changes in Fund Balances presents fairly the financial position of the Arkansas River Compact Administration at October 31, 1967, and the results of operations for the fiscal year then ended on a basis consistent with that of the previous year.

Respectfully submitted,

Strait & Crimond

## EXHIBIT A

### ARKANSAS RIVER COMPACT ADMINISTRATION

#### STATEMENT OF RECEIPTS AND DISBURSEMENTS AND CHANGES IN FUND BALANCES FOR THE FISCAL YEAR ENDED OCTOBER 31, 1967

|                                       |    |                 |
|---------------------------------------|----|-----------------|
| CASH IN BANK, NOVEMBER 1, 1966. ....  | \$ | <u>4,709.71</u> |
| FUND BALANCE, NOVEMBER, 1, 1966. .... |    | 4,709.71        |

#### RECEIPTS:

##### Revenue from Assessments:

|                |                 |
|----------------|-----------------|
| Colorado. .... | \$7,404.00      |
| Kansas. ....   | <u>4,936.00</u> |

TOTAL RECEIPTS. .... 12,340.00

TOTAL AVAILABLE. .... \$17,049.71

#### DISBURSEMENTS:

|                                                                                                                    |             |
|--------------------------------------------------------------------------------------------------------------------|-------------|
| Surface Water Investigations, Cooperative<br>Gage Replacements & Rehabilitations,<br>U. S. Geological Survey. .... | \$ 1,500.00 |
| Secretary Salary. ....                                                                                             | 1,200.00    |
| Printing. ....                                                                                                     | 752.65      |
| Travel. ....                                                                                                       | 212.88      |
| Telephone. ....                                                                                                    | 208.03      |
| Office Supplies. ....                                                                                              | 85.88       |
| Legal & Audit. ....                                                                                                | 85.00       |
| Payroll Taxes. ....                                                                                                | 52.20       |
| Treasurer's Bond. ....                                                                                             | 15.00       |
| Typing & Mailing. ....                                                                                             | 11.00       |
| Bank Charges. ....                                                                                                 | <u>.50</u>  |

|                                  |                     |
|----------------------------------|---------------------|
| TOTAL DISBURSEMENTS ....         | <u>4,123.14</u>     |
| FUND BALANCE, OCTOBER 31, 1967 . | \$ <u>12,926.57</u> |

# SCHEDULE 1

## ARKANSAS RIVER COMPACT ADMINISTRATION

### STATEMENT OF RECEIPTS AND DISBURSEMENTS WITH BUDGET FOR THE BUDGET YEAR JULY 1, 1966 TO JUNE 30, 1967

|                                 | ACTUAL      | BUDGETED |
|---------------------------------|-------------|----------|
| Cash in Bank, July 1, 1966. . . | \$ 1,329.63 | \$ ----  |

RECEIPTS:

Revenue from Assessments:

|                            |                    |                    |
|----------------------------|--------------------|--------------------|
| Colorado Portion - 60%. \$ | 3,189.00           | 3,189.00           |
| Kansas Portion - 40% .     | 2,126.00           | 2,126.00           |
| <b>TOTAL RECEIPTS</b>      | <b>5,315.00</b>    | <b>\$ 5,315.00</b> |
| <b>TOTAL TO AC-</b>        |                    |                    |
| <b>COUNT FOR</b>           | <b>\$ 6,644.63</b> | <b>\$ 5,315.00</b> |

DISBURSEMENTS:

|                            |                 |                    |
|----------------------------|-----------------|--------------------|
| Investigation and In-      |                 |                    |
| spection. . . . .          | \$ ----         | \$ 100.00          |
| Surface Water Investiga-   |                 |                    |
| tions U. S. Geological     |                 |                    |
| Survey. . . . .            | \$ 2,000.00     | 2,000.00           |
| Secretary Salary. . . . .  | \$ 1,200.00     | 1,200.00           |
| Printing. . . . .          | 752.65          | 800.00             |
| Travel. . . . .            | 204.64          | 200.00             |
| Telephone. . . . .         | 197.01          | 300.00             |
| Auditing. . . . .          | 85.00           | 75.00              |
| Office Supplies. . . . .   | 70.38           | 150.00             |
| Capital Outlay. . . . .    | 61.90           | 300.00             |
| Payroll Taxes. . . . .     | 51.00           | 75.00              |
| Treasurer's Bond. . . . .  | 15.00           | 15.00              |
| Typing & Mailing. . . . .  | 6.00            | 100.00             |
| Bank Charges. . . . .      | .35             | ----               |
| <b>TOTAL DISBURSEMENTS</b> | <b>4,643.93</b> | <b>\$ 5,315.00</b> |

|                             |             |         |
|-----------------------------|-------------|---------|
| CASH IN BANK, JUNE 30, 1967 | \$ 2,000.70 | \$ ---- |
|-----------------------------|-------------|---------|

# APPENDIX "B-1"

## ARKANSAS RIVER NEAR PUEBLO, COLORADO

| ARKANSAS RIVER NEAR PUEBLO, COLORADO<br>Report-Year ending October 31, 1967<br>U S G S Records — Provisional, Subject to Revision<br>(Colorado State Engineer) |       |        |       |       |      |      |       |       |       |       |       |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------|-------|-------|------|------|-------|-------|-------|-------|-------|-------|
| DAY                                                                                                                                                            | NOV.  | DEC.   | JAN.  | FEB.  | MAR. | APR. | MAY   | JUNE  | JULY  | AUG.  | SEPT. | OCT.  |
| 1                                                                                                                                                              | 178   | 226    | 280   | 261   | 170  | 34   | 39    | 976   | 1230  | 879   | 1100  | 327   |
| 2                                                                                                                                                              | 177   | 214    | 281   | 255   | 154  | 30   | 51    | 837   | 1050  | 823   | 1080  | 292   |
| 3                                                                                                                                                              | 162   | 197    | 291   | 236   | 154  | 44   | 65    | 828   | 1100  | 787   | 1020  | 264   |
| 4                                                                                                                                                              | 167   | 201    | 311   | 223   | 150  | 42   | 73    | 897   | 1130  | 745   | 670   | 249   |
| 5                                                                                                                                                              | 177   | 200    | 331   | 247   | 135  | 41   | 94    | 1070  | 1030  | 726   | 510   | 243   |
| 6                                                                                                                                                              | 167   | 200    | 288   | 296   | 145  | 43   | 115   | 1460  | 904   | 745   | 441   | 284   |
| 7                                                                                                                                                              | 167   | 218    | 270   | 310   | 123  | 62   | 111   | 1640  | 906   | 837   | 416   | 311   |
| 8                                                                                                                                                              | 167   | 275    | 250   | 301   | 131  | 87   | 96    | 1640  | 1300  | 802   | 385   | 297   |
| 9                                                                                                                                                              | 177   | 253    | 258   | 246   | 135  | 83   | 70    | 1550  | 1310  | 826   | 477   | 276   |
| 10                                                                                                                                                             | 192   | 253    | 302   | 222   | 140  | 94   | 51    | 1390  | 1150  | 1030  | 485   | 255   |
| 11                                                                                                                                                             | 182   | 293    | 351   | 199   | 122  | 96   | 46    | 1330  | 1120  | 1150  | 460   | 261   |
| 12                                                                                                                                                             | 173   | 299    | 359   | 181   | 114  | 62   | 57    | 1090  | 1110  | 1220  | 434   | 235   |
| 13                                                                                                                                                             | 177   | 307    | 341   | 176   | 98   | 88   | 131   | 1040  | 1190  | 1200  | 503   | 206   |
| 14                                                                                                                                                             | 191   | 308    | 319   | 188   | 98   | 158  | 153   | 1210  | 1170  | 1150  | 614   | 178   |
| 15                                                                                                                                                             | 198   | 313    | 296   | 188   | 94   | 112  | 198   | 985   | 1370  | 970   | 584   | 232   |
| 16                                                                                                                                                             | 192   | 286    | 306   | 188   | 98   | 96   | 188   | 1070  | 1380  | 990   | 662   | 228   |
| 17                                                                                                                                                             | 197   | 279    | 282   | 182   | 91   | 106  | 138   | 911   | 1760  | 1000  | 652   | 199   |
| 18                                                                                                                                                             | 197   | 293    | 251   | 172   | 94   | 87   | 107   | 959   | 2100  | 893   | 510   | 189   |
| 19                                                                                                                                                             | 202   | 286    | 297   | 185   | 109  | 66   | 301   | 1160  | 1310  | 569   | 449   | 179   |
| 20                                                                                                                                                             | 197   | 293    | 319   | 202   | 105  | 69   | 802   | 1890  | 904   | 479   | 511   | 159   |
| 21                                                                                                                                                             | 208   | 293    | 333   | 196   | 97   | 61   | 1120  | 2230  | 822   | 436   | 583   | 154   |
| 22                                                                                                                                                             | 197   | 280    | 291   | 179   | 73   | 56   | 1240  | 2170  | 734   | 354   | 448   | 174   |
| 23                                                                                                                                                             | 203   | 271    | 269   | 184   | 58   | 52   | 1350  | 2140  | 663   | 317   | 381   | 158   |
| 24                                                                                                                                                             | 208   | 251    | 255   | 174   | 52   | 61   | 1550  | 1900  | 644   | 270   | 349   | 138   |
| 25                                                                                                                                                             | 207   | 241    | 255   | 184   | 63   | 53   | 1710  | 1820  | 745   | 248   | 311   | 143   |
| 26                                                                                                                                                             | 202   | 261    | 263   | 202   | 75   | 52   | 2230  | 1720  | 745   | 230   | 323   | 133   |
| 27                                                                                                                                                             | 196   | 251    | 255   | 202   | 77   | 64   | 2270  | 1560  | 745   | 212   | 369   | 103   |
| 28                                                                                                                                                             | 190   | 230    | 255   | 185   | 56   | 49   | 1810  | 1340  | 644   | 560   | 408   | 127   |
| 29                                                                                                                                                             | 196   | 210    | 254   |       | 36   | 49   | 1460  | 1100  | 577   | 703   | 425   | 170   |
| 30                                                                                                                                                             | 209   | 240    | 254   |       | 30   | 42   | 1140  | 1070  | 644   | 787   | 359   | 218   |
| 31                                                                                                                                                             |       | 260    | 254   |       | 30   |      | 1050  |       | 615   | 1000  |       | 184   |
| TOTAL                                                                                                                                                          |       |        |       |       |      |      |       |       |       |       |       |       |
| sec.ft.                                                                                                                                                        | 5653  | 7982   | 8921  | 5964  | 3113 | 2039 | 19816 | 40843 | 32102 | 22938 | 15919 | 6573  |
| ac.ft.                                                                                                                                                         | 11210 | 15830  | 17690 | 11830 | 6170 | 4040 | 39300 | 81010 | 63670 | 45500 | 31570 | 13040 |
| (a) ac.ft.                                                                                                                                                     | 0     | 0      | 0     | 0     | 0    | 0    | 0     | 8630  | 2300  | 7740  | 15640 | 3930  |
| (b) ac.ft.                                                                                                                                                     | 11210 | 115830 | 17690 | 11830 | 6170 | 4040 | 30670 | 78710 | 55930 | 29860 | 27640 | 13040 |
| (a) Less upstream reservoir and transmountain water. THE YEAR 340,900                                                                                          |       |        |       |       |      |      |       |       |       |       |       |       |
| (b) Corrected total Ac. Ft. CORRECTED 302,600                                                                                                                  |       |        |       |       |      |      |       |       |       |       |       |       |

# APPENDIX "B-2"

## ARKANSAS RIVER AT LAS ANIMAS, COLORADO

| ARKANSAS RIVER AT LAS ANIMAS, COLORADO              |      |      |      |      |      |      |        |      |      |      |       |                  |
|-----------------------------------------------------|------|------|------|------|------|------|--------|------|------|------|-------|------------------|
| Report-Year ending October 31, 1967                 |      |      |      |      |      |      |        |      |      |      |       |                  |
| U S G S Records -- Provisional, Subject to Revision |      |      |      |      |      |      |        |      |      |      |       |                  |
| DAY                                                 | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY    | JUNE | JULY | AUG. | SEPT. | OCT.             |
| 1                                                   | 20   | 33   | 31   | 22   | 18   | 16   | 12     | 85   | 30   | 30   | 16    | 15               |
| 2                                                   | 17   | 56   | 36   | 21   | 20   | 15   | 11     | 44   | 28   | 35   | 16    | 14               |
| 3                                                   | 16   | 56   | 37   | 21   | 18   | 14   | 12     | 39   | 28   | 28   | 16    | 14               |
| 4                                                   | 18   | 50   | 38   | 21   | 20   | 14   | 13     | 54   | 152  | 27   | 16    | 14               |
| 5                                                   | 18   | 47   | 36   | 21   | 23   | 12   | 16     | 47   | 47   | 23   | 16    | 15               |
| 6                                                   | 21   | 52   | 30   | 21   | 23   | 12   | 12     | 240  | 30   | 30   | 16    | 16               |
| 7                                                   | 23   | 50   | 23   | 21   | 25   | 14   | 12     | 170  | 31   | 56   | 15    | 16               |
| 8                                                   | 25   | 50   | 20   | 21   | 33   | 14   | 12     | 61   | 31   | 32   | 15    | 15               |
| 9                                                   | 23   | 52   | 20   | 20   | 22   | 15   | 12     | 35   | 28   | 27   | 14    | 13               |
| 10                                                  | 22   | 47   | 20   | 18   | 20   | 20   | 11     | 31   | 54   | 28   | 13    | 13               |
| 11                                                  | 22   | 49   | 23   | 17   | 20   | 18   | 11     | 28   | 512  | 30   | 13    | 14               |
| 12                                                  | 20   | 56   | 25   | 30   | 20   | 14   | 11     | 26   | 140  | 27   | 13    | 14               |
| 13                                                  | 20   | 47   | 25   | 22   | 20   | 14   | 11     | 26   | 56   | 25   | 15    | 15               |
| 14                                                  | 18   | 41   | 26   | 17   | 17   | 14   | 16     | 27   | 53   | 23   | 16    | 15               |
| 15                                                  | 18   | 45   | 25   | 21   | 17   | 16   | 13     | 27   | 58   | 21   | 16    | 16               |
| 16                                                  | 18   | 50   | 26   | 26   | 17   | 16   | 12     | 28   | 170  | 22   | 19    | 16               |
| 17                                                  | 17   | 56   | 25   | 29   | 16   | 15   | 12     | 25   | 146  | 22   | 17    | 16               |
| 18                                                  | 15   | 62   | 26   | 26   | 15   | 16   | 12     | 27   | 69   | 22   | 18    | 16               |
| 19                                                  | 15   | 66   | 26   | 23   | 17   | 15   | 10     | 28   | 232  | 23   | 19    | 16               |
| 20                                                  | 14   | 62   | 26   | 21   | 17   | 15   | 13     | 32   | 102  | 21   | 18    | 16               |
| 21                                                  | 14   | 56   | 28   | 21   | 18   | 15   | 12     | 35   | 69   | 18   | 16    | 16               |
| 22                                                  | 17   | 58   | 28   | 21   | 16   | 15   | 9.9    | 643  | 56   | 16   | 16    | 16               |
| 23                                                  | 21   | 49   | 26   | 23   | 16   | 14   | 9.5    | 118  | 45   | 16   | 15    | 16               |
| 24                                                  | 22   | 30   | 26   | 23   | 16   | 14   | 9.1    | 69   | 42   | 16   | 14    | 19               |
| 25                                                  | 28   | 25   | 22   | 26   | 16   | 14   | 8.7    | 42   | 39   | 16   | 13    | 20               |
| 26                                                  | 32   | 20   | 20   | 21   | 16   | 14   | 15     | 37   | 336  | 15   | 14    | 69               |
| 27                                                  | 22   | 18   | 20   | 18   | 18   | 12   | 3130   | 37   | 72   | 15   | 15    | 158              |
| 28                                                  | 21   | 16   | 21   | 18   | 17   | 13   | 485    | 36   | 42   | 14   | 15    | 134              |
| 29                                                  | 21   | 15   | 22   | 17   | 15   | 15   | 140    | 34   | 36   | 15   | 15    | 129              |
| 30                                                  | 21   | 18   | 22   | 15   | 13   | 13   | 69     | 31   | 32   | 16   | 15    | 152              |
| 31                                                  | 25   | 22   | 22   | 15   | 15   | 15   | 47     | 31   | 31   | 15   | 15    | 140              |
| TOTAL                                               |      |      |      |      |      |      |        |      |      |      |       |                  |
| sec.ft.                                             | 599  | 1357 | 801  | 610  | 578  | 438  | 4179.2 | 2162 | 2797 | 724  | 465   | 1168             |
| ac.ft.                                              | 1190 | 2680 | 1590 | 1210 | 1150 | 869  | 8290   | 4290 | 5550 | 1440 | 922   | 2320             |
|                                                     |      |      |      |      |      |      |        |      |      |      |       | 31,510 acre-feet |

# APPENDIX "B-3"

## PURGATOIRE RIVER NEAR LAS ANIMAS, COLORADO

| PURGATOIRE RIVER NEAR LAS ANIMAS, COLORADO         |      |      |      |       |       |       |        |         |       |        |        |       |
|----------------------------------------------------|------|------|------|-------|-------|-------|--------|---------|-------|--------|--------|-------|
| Report-Year ending October 31, 1987                |      |      |      |       |       |       |        |         |       |        |        |       |
| U S G S Records — Provisional, Subject to Revision |      |      |      |       |       |       |        |         |       |        |        |       |
| DAY                                                | NOV. | DEC. | JAN. | FEB.  | MAR.  | APR.  | MAY    | JUNE    | JULY  | AUG.   | SEPT.  | OCT.  |
| 1                                                  | 36   | 21   | 24   | 26    | 5.9   | 11    | 5.5    | 76      | 84    | 30     | 359    | 8.0   |
| 2                                                  | 34   | 19   | 26   | 18    | 5.9   | 9.8   | 3.7    | 103     | 56    | 28     | 208    | 6.4   |
| 3                                                  | 25   | 22   | 29   | 13    | 5.9   | 9.2   | 4.3    | 108     | 30    | 35     | 104    | 5.8   |
| 4                                                  | 19   | 23   | 30   | 13    | 5.0   | 7.7   | 4.7    | 134     | 38    | 2880   | 70     | 4.8   |
| 5                                                  | 19   | 22   | 31   | 18    | 4.0   | 5.7   | 4.3    | 76      | 390   | 1620   | 66     | 4.4   |
| 6                                                  | 26   | 30   | 30   | 27    | 4.0   | 5.7   | 4.5    | 38      | 204   | 605    | 48     | 4.4   |
| 7                                                  | 34   | 29   | 28   | 26    | 3.5   | 6.3   | 3.9    | 12      | 179   | 359    | 34     | 5.2   |
| 8                                                  | 37   | 27   | 23   | 38    | 23    | 7.4   | 4.1    | 8.1     | 236   | 171    | 31     | 8.0   |
| 9                                                  | 36   | 26   | 26   | 41    | 11    | 7.1   | 3.7    | 13      | 677   | 130    | 22     | 22.   |
| 10                                                 | 34   | 25   | 28   | 35    | 8.0   | 8.6   | 4.7    | 7.3     | 358   | 130    | 83     | 23    |
| 11                                                 | 28   | 30   | 25   | 39    | 6.5   | 7.7   | 5.3    | 6.6     | 640   | 130    | 37     | 30    |
| 12                                                 | 25   | 23   | 23   | 41    | 5.7   | 6.8   | 6.3    | 5.8     | 2040  | 130    | 20     | 19    |
| 13                                                 | 25   | 20   | 25   | 32    | 5.1   | 5.9   | 5.9    | 15      | 632   | 130    | 26     | 16    |
| 14                                                 | 22   | 19   | 25   | 36    | 4.5   | 4.7   | 5.7    | 5.8     | 325   | 112    | 21     | 15    |
| 15                                                 | 22   | 27   | 24   | 38    | 1.9   | 4.1   | 4.5    | 133     | 186   | 79     | 19     | 14    |
| 16                                                 | 21   | 26   | 34   | 37    | 1.9   | 4.3   | 3.9    | 253     | 265   | 59     | 20     | 17    |
| 17                                                 | 25   | 23   | 41   | 28    | 1.9   | 4.9   | 3.7    | 2880    | 632   | 53     | 18     | 26    |
| 18                                                 | 25   | 23   | 41   | 17    | 1.9   | 4.1   | 3.5    | 2470    | 528   | 56     | 49     | 17    |
| 19                                                 | 24   | 25   | 37   | 19    | 2.5   | 4.1   | 3.5    | 2010    | 688   | 44     | 139    | 16    |
| 20                                                 | 23   | 26   | 45   | 19    | 4.1   | 4.1   | 3.9    | 560     | 224   | 44     | 89     | 10    |
| 21                                                 | 19   | 27   | 46   | 12    | 3.9   | 3.1   | 3.5    | 1780    | 121   | 37     | 65     | 10    |
| 22                                                 | 19   | 26   | 50   | 20    | 3.9   | 3.7   | 2.9    | 1940    | 52    | 32     | 49     | 12    |
| 23                                                 | 22   | 25   | 55   | 19    | 4.5   | 4.1   | 2.5    | 1910    | 36    | 26     | 34     | 7.2   |
| 24                                                 | 22   | 24   | 53   | 10    | 4.5   | 4.1   | 2.4    | 578     | 22    | 22     | 36     | 7.6   |
| 25                                                 | 23   | 23   | 45   | 8.6   | 4.1   | 3.5   | 2.0    | 417     | 14    | 18     | 22     | 17    |
| 26                                                 | 26   | 18   | 30   | 6.5   | 4.3   | 2.9   | 3.9    | 209     | 358   | 16     | 14     | 28    |
| 27                                                 | 31   | 15   | 26   | 6.1   | 4.9   | 2.5   | 2340   | 69      | 265   | 13     | 12     | 36    |
| 28                                                 | 26   | 18   | 30   | 5.9   | 4.9   | 1.9   | 528    | 94      | 265   | 12     | 14     | 22    |
| 29                                                 | 22   | 17   | 29   |       | 4.7   | 2.2   | 186    | 310     | 168   | 9.0    | 10     | 39    |
| 30                                                 | 21   | 19   | 26   |       | 4.1   | 4.5   | 108    | 101     | 71    | 9.0    | 9.0    | 52    |
| 31                                                 |      | 21   | 27   |       | 5.5   |       | 82     |         | 48    | 1190   | 47     |       |
| TOTAL                                              |      |      |      |       |       |       |        |         |       |        |        |       |
| sec. ft.                                           | 771  | 719  | 1012 | 649.1 | 161.5 | 161.7 | 3350.8 | 16322.6 | 9812  | 8209.0 | 1728.0 | 549.6 |
| ac. ft.                                            | 1530 | 1430 | 2010 | 1290  | 320   | 321   | 6650   | 32380   | 19460 | 16280  | 3430   | 1090  |
| THE YEAR 86,190 acre-feet                          |      |      |      |       |       |       |        |         |       |        |        |       |

# APPENDIX "B-4"

## INFLOW INTO JOHN MARTIN RESERVOIR

| INFLOW INTO JOHN MARTIN RESERVOIR               |      |      |      |      |      |      |       |       |       |       |       |                   |
|-------------------------------------------------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------------------|
| Report-Year ending October 31, 1967             |      |      |      |      |      |      |       |       |       |       |       |                   |
| USGS Records — Provisional, Subject to Revision |      |      |      |      |      |      |       |       |       |       |       |                   |
| DAY                                             | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY   | JUNE  | JULY  | AUG.  | SEPT. | OCT.              |
| 1                                               | 56   | 54   | 55   | 46   | 24   | 27   | 18    | 161   | 114   | 60    | 375   | 23                |
| 2                                               | 51   | 75   | 62   | 39   | 26   | 25   | 15    | 147   | 84    | 63    | 224   | 20                |
| 3                                               | 41   | 78   | 66   | 34   | 24   | 23   | 16    | 147   | 58    | 63    | 220   | 20                |
| 4                                               | 37   | 73   | 68   | 34   | 25   | 22   | 18    | 188   | 190   | 2910  | 86    | 19                |
| 5                                               | 37   | 69   | 67   | 39   | 27   | 18   | 20    | 123   | 437   | 1640  | 82    | 19                |
| 6                                               | 47   | 82   | 60   | 48   | 27   | 18   | 16    | 278   | 234   | 635   | 64    | 20                |
| 7                                               | 57   | 79   | 51   | 47   | 28   | 20   | 16    | 182   | 210   | 415   | 49    | 21                |
| 8                                               | 62   | 77   | 43   | 59   | 56   | 21   | 16    | 69    | 267   | 203   | 46    | 23                |
| 9                                               | 59   | 78   | 46   | 61   | 33   | 22   | 16    | 48    | 705   | 157   | 36    | 35                |
| 10                                              | 56   | 72   | 48   | 53   | 28   | 29   | 16    | 38    | 412   | 158   | 96    | 36                |
| 11                                              | 50   | 79   | 48   | 56   | 26   | 26   | 16    | 35    | 1150  | 180   | 50    | 44                |
| 12                                              | 45   | 79   | 48   | 71   | 26   | 21   | 17    | 32    | 2180  | 157   | 33    | 33                |
| 13                                              | 45   | 67   | 50   | 54   | 25   | 20   | 17    | 41    | 688   | 155   | 41    | 31                |
| 14                                              | 40   | 60   | 51   | 53   | 22   | 19   | 22    | 33    | 378   | 135   | 37    | 30                |
| 15                                              | 40   | 72   | 49   | 59   | 19   | 20   | 18    | 160   | 244   | 100   | 35    | 30                |
| 16                                              | 39   | 76   | 60   | 63   | 19   | 20   | 16    | 281   | 435   | 81    | 39    | 33                |
| 17                                              | 42   | 79   | 66   | 57   | 18   | 20   | 16    | 2900  | 778   | 75    | 35    | 42                |
| 18                                              | 40   | 85   | 67   | 43   | 17   | 20   | 16    | 2500  | 597   | 78    | 67    | 33                |
| 19                                              | 39   | 91   | 63   | 42   | 20   | 19   | 14    | 2040  | 900   | 67    | 158   | 32                |
| 20                                              | 37   | 88   | 71   | 40   | 21   | 19   | 17    | 592   | 326   | 65    | 107   | 26                |
| 21                                              | 33   | 83   | 74   | 33   | 22   | 18   | 16    | 1820  | 190   | 55    | 81    | 26                |
| 22                                              | 36   | 84   | 78   | 41   | 20   | 19   | 13    | 2580  | 108   | 48    | 65    | 28                |
| 23                                              | 43   | 74   | 81   | 42   | 20   | 18   | 12    | 2030  | 81    | 42    | 49    | 23                |
| 24                                              | 44   | 54   | 79   | 33   | 20   | 18   | 12    | 647   | 64    | 38    | 50    | 27                |
| 25                                              | 51   | 48   | 67   | 35   | 20   | 18   | 11    | 459   | 53    | 34    | 35    | 37                |
| 26                                              | 58   | 38   | 50   | 28   | 20   | 17   | 19    | 246   | 694   | 31    | 28    | 97                |
| 27                                              | 53   | 33   | 46   | 24   | 23   | 14   | 5470  | 106   | 337   | 28    | 27    | 194               |
| 28                                              | 47   | 34   | 51   | 24   | 22   | 15   | 1010  | 130   | 307   | 26    | 29    | 156               |
| 29                                              | 43   | 32   | 51   |      | 22   | 17   | 326   | 344   | 204   | 24    | 25    | 168               |
| 30                                              | 42   | 37   | 48   |      | 19   | 18   | 177   | 132   | 103   | 25    | 24    | 204               |
| 31                                              |      | 46   | 49   |      | 20   |      | 129   |       | 79    | 1200  |       | 187               |
| TOTAL                                           |      |      |      |      |      |      |       |       |       |       |       |                   |
| sec. ft.                                        | 1370 | 2076 | 1813 | 1260 | 739  | 601  | 7531  | 18489 | 12607 | 8928  | 2293  | 1717              |
| ac. ft.                                         | 2720 | 4120 | 3600 | 2500 | 1470 | 1190 | 14940 | 36670 | 25010 | 17710 | 4550  | 3410              |
|                                                 |      |      |      |      |      |      |       |       |       |       |       | 117,900 acre-feet |

# APPENDIX "B-5"

## CONTENTS OF JOHN MARTIN RESERVOIR

### CONTENTS OF JOHN MARTIN RESERVOIR

Report-Year ending October 31, 1967

Corps of Engineers records — Provisional, subject to revision

Midnight contents in acre-feet from capacity table dated Nov. 1, 1962 (Nov. 1-Mar. 31)

Midnight contents in acre-feet from capacity table dated Apr. 3, 1967 (Apr. 1-Oct. 31)

| DAY | NOV.   | DEC.   | JAN.   | FEB.   | MAR.   | APR.   | MAY    | JUNE   | JULY   | AUG.   | SEPT. | OCT.  |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 1   | 185641 | 187171 | 191271 | 195598 | 198431 | 185838 | 117719 | 86165  | 109899 | 105364 | 66960 | 39362 |
| 2   | 185794 | 187171 | 191349 | 196676 | 198431 | 183793 | 114790 | 86691  | 109679 | 102882 | 66994 | 38430 |
| 3   | 185718 | 187171 | 191505 | 196755 | 198431 | 181840 | 112501 | 86882  | 109239 | 100688 | 64883 | 37333 |
| 4   | 185718 | 187247 | 191662 | 196911 | 198512 | 179898 | 110451 | 87171  | 108690 | 102936 | 63644 | 36106 |
| 5   | 185947 | 187324 | 191819 | 197068 | 198592 | 177586 | 108635 | 87026  | 108910 | 103904 | 62417 | 34697 |
| 6   | 185947 | 187476 | 192054 | 197068 | 198592 | 174987 | 106777 | 86691  | 108690 | 102613 | 61088 | 33425 |
| 7   | 186024 | 187629 | 192132 | 197146 | 198673 | 172412 | 104660 | 86738  | 108361 | 102291 | 59996 | 31981 |
| 8   | 186024 | 187782 | 192211 | 197226 | 198673 | 170084 | 102828 | 86595  | 108087 | 100795 | 59099 | 30645 |
| 9   | 186024 | 187935 | 192368 | 197387 | 198753 | 167553 | 101008 | 86261  | 108471 | 99094  | 58246 | 29308 |
| 10  | 186024 | 188088 | 192524 | 197548 | 198753 | 165045 | 99094  | 85928  | 108965 | 98882  | 57545 | 27969 |
| 11  | 186100 | 188241 | 192681 | 197628 | 198753 | 162487 | 97037  | 85548  | 108899 | 98354  | 56812 | 26630 |
| 12  | 186177 | 188394 | 192838 | 197788 | 198753 | 160024 | 95055  | 85171  | 111835 | 97510  | 56082 | 25444 |
| 13  | 186177 | 188547 | 193072 | 197869 | 198753 | 157585 | 93770  | 84841  | 111890 | 95969  | 55357 | 24451 |
| 14  | 186253 | 188624 | 193307 | 197949 | 198753 | 155242 | 91994  | 84325  | 111779 | 94385  | 54636 | 23547 |
| 15  | 186330 | 188777 | 193542 | 197949 | 198673 | 152927 | 90197  | 83812  | 111835 | 92651  | 53949 | 22678 |
| 16  | 186330 | 188930 | 193699 | 198029 | 198592 | 150572 | 88526  | 84559  | 112334 | 90842  | 53067 | 21705 |
| 17  | 186330 | 189083 | 193855 | 198190 | 198512 | 148114 | 86834  | 86643  | 113559 | 89358  | 52556 | 20839 |
| 18  | 186406 | 189236 | 194012 | 198271 | 198512 | 145556 | 85218  | 92853  | 114341 | 87701  | 51452 | 20100 |
| 19  | 186559 | 189390 | 194247 | 198351 | 198592 | 143168 | 83626  | 95781  | 116194 | 86451  | 50758 | 19552 |
| 20  | 186636 | 189547 | 194404 | 198431 | 198592 | 141204 | 82365  | 96827  | 116420 | 84841  | 50069 | 18897 |
| 21  | 186712 | 189782 | 194561 | 198431 | 198592 | 138816 | 81334  | 99625  | 116251 | 83302  | 49216 | 18338 |
| 22  | 186789 | 190017 | 194796 | 198431 | 198673 | 136527 | 79985  | 104120 | 115351 | 81788  | 48336 | 17741 |
| 23  | 186942 | 190173 | 194953 | 198351 | 198673 | 134209 | 78568  | 107431 | 114117 | 80253  | 47398 | 17151 |
| 24  | 186942 | 190173 | 195188 | 198351 | 198673 | 131805 | 77132  | 108690 | 112890 | 78568  | 46470 | 16645 |
| 25  | 187018 | 190173 | 195422 | 198431 | 198592 | 129561 | 75677  | 109075 | 111946 | 76787  | 45453 | 16032 |
| 26  | 187094 | 190330 | 195657 | 198512 | 198592 | 127234 | 75539  | 109569 | 112334 | 74916  | 44417 | 15798 |
| 27  | 187094 | 190487 | 195814 | 198512 | 198512 | 124947 | 75399  | 109679 | 111835 | 73211  | 43361 | 15544 |
| 28  | 187171 | 190644 | 195971 | 198431 | 198512 | 123613 | 84278  | 109679 | 111003 | 71369  | 42444 | 15334 |
| 29  | 187171 | 190801 | 196128 | 198431 | 198431 | 121827 | 84045  | 109899 | 110285 | 69508  | 41165 | 15250 |
| 30  | 187171 | 190957 | 196285 | 198190 | 198190 | 119880 | 84653  | 110009 | 109184 | 67563  | 40273 | 15104 |
| 31  |        | 191036 | 196441 | 197949 |        |        | 85643  |        | 107649 | 67712  |       | 14999 |

# APPENDIX "B-6"

## OUTFLOW FROM JOHN MARTIN RESERVOIR

| OUTFLOW FROM JOHN MARTIN RESERVOIR                 |       |       |       |       |       |       |        |       |       |       |       |      |  |
|----------------------------------------------------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|------|--|
| Report-Year ending October 31, 1967                |       |       |       |       |       |       |        |       |       |       |       |      |  |
| U S G S Records — Provisional, Subject to Revision |       |       |       |       |       |       |        |       |       |       |       |      |  |
| DAY                                                | NOV.  | DEC.  | JAN.  | FEB.  | MAR.  | APR.  | MAY    | JUNE  | JULY  | AUG.  | SEPT. | OCT. |  |
| 1                                                  | 189   | 24    | 3.6   | 3.8   | 23    | 954   | 1070   | 11    | 204   | 1180  | 861   | 475  |  |
| 2                                                  | 17    | 24    | 3.6   | 3.8   | 23    | 1050  | 1080   | 8.5   | 208   | 1130  | 792   | 480  |  |
| 3                                                  | 25    | 24    | 3.6   | 3.8   | 23    | 1120  | 1080   | 5.7   | 287   | 1180  | 774   | 573  |  |
| 4                                                  | 25    | 24    | 3.6   | 3.8   | 23    | 1120  | 1050   | 4.3   | 386   | 1180  | 768   | 684  |  |
| 5                                                  | 24    | 24    | 3.6   | 3.8   | 23    | 1220  | 1040   | 100   | 426   | 1170  | 762   | 714  |  |
| 6                                                  | 24    | 18    | 3.6   | 3.8   | 22    | 1250  | 1030   | 276   | 400   | 1170  | 732   | 720  |  |
| 7                                                  | 24    | 12    | 3.6   | 3.8   | 15    | 1250  | 1020   | 238   | 374   | 945   | 642   | 720  |  |
| 8                                                  | 25    | 12    | 3.3   | 3.8   | 6.2   | 1250  | 924    | 204   | 400   | 1020  | 512   | 726  |  |
| 9                                                  | 25    | 12    | 3.3   | 3.8   | 13    | 1240  | 910    | 200   | 413   | 1120  | 501   | 738  |  |
| 10                                                 | 24    | 12    | 3.3   | 3.8   | 25    | 1230  | 945    | 208   | 440   | 1050  | 501   | 738  |  |
| 11                                                 | 24    | 11    | 3.3   | 3.8   | 23    | 1230  | 931    | 208   | 450   | 959   | 455   | 738  |  |
| 12                                                 | 24    | 8.5   | 3.3   | 3.6   | 23    | 1220  | 938    | 215   | 455   | 903   | 422   | 726  |  |
| 13                                                 | 24    | 6.2   | 3.3   | 3.6   | 25    | 1260  | 938    | 208   | 455   | 889   | 426   | 573  |  |
| 14                                                 | 25    | 5.7   | 3.3   | 3.6   | 24    | 1240  | 931    | 265   | 470   | 854   | 431   | 506  |  |
| 15                                                 | 25    | 5.7   | 3.3   | 3.8   | 24    | 1190  | 910    | 299   | 485   | 882   | 431   | 501  |  |
| 16                                                 | 25    | 5.7   | 3.3   | 3.6   | 23    | 1180  | 875    | 90    | 485   | 861   | 465   | 496  |  |
| 17                                                 | 25    | 5.7   | 3.6   | 3.6   | 23    | 1180  | 868    | 234   | 445   | 780   | 480   | 496  |  |
| 18                                                 | 25    | 5.7   | 3.6   | 3.6   | 20    | 1160  | 834    | 159   | 200   | 804   | 480   | 496  |  |
| 19                                                 | 25    | 7.6   | 3.8   | 3.6   | 19    | 1130  | 780    | 131   | 352   | 621   | 518   | 352  |  |
| 20                                                 | 25    | 6.2   | 4.0   | 14    | 19    | 1130  | 684    | 128   | 341   | 804   | 534   | 348  |  |
| 21                                                 | 25    | 5.7   | 4.3   | 16    | 19    | 1110  | 618    | 108   | 374   | 762   | 534   | 344  |  |
| 22                                                 | 25    | 5.7   | 4.3   | 17    | 20    | 1120  | 678    | 39    | 584   | 738   | 534   | 341  |  |
| 23                                                 | 26    | 5.2   | 4.8   | 17    | 20    | 1110  | 732    | 7.6   | 708   | 798   | 501   | 325  |  |
| 24                                                 | 24    | 5.2   | 4.8   | 20    | 19    | 1110  | 744    | 7.1   | 708   | 861   | 496   | 329  |  |
| 25                                                 | 25    | 5.2   | 5.2   | 30    | 20    | 1110  | 756    | 26    | 558   | 889   | 518   | 325  |  |
| 26                                                 | 29    | 5.2   | 4.3   | 30    | 20    | 1090  | 768    | 67    | 448   | 896   | 562   | 314  |  |
| 27                                                 | 25    | 4.3   | 3.8   | 29    | 20    | 1100  | 630    | 111   | 738   | 896   | 528   | 310  |  |
| 28                                                 | 25    | 4.0   | 3.8   | 23    | 22    | 1070  | 567    | 155   | 726   | 959   | 485   | 310  |  |
| 29                                                 | 24    | 3.8   | 3.8   | 29    | 20    | 1050  | 573    | 166   | 726   | 1050  | 470   | 310  |  |
| 30                                                 | 24    | 3.6   | 3.8   |       | 18    | 1050  | 462    | 192   | 726   | 1050  | 470   | 310  |  |
| 31                                                 | 24    | 3.6   | 4.0   |       | 20    |       | 26     |       | 994   | 959   |       | 310  |  |
| TOTAL                                              |       |       |       |       |       |       |        |       |       |       |       |      |  |
| sec.ft. 901                                        | 305.5 | 116.8 | 266.8 | 637.2 | 34524 | 25392 | 4071.2 | 14966 | 29300 | 16585 | 15230 |      |  |
| ac.ft. 1790                                        | 606   | 232   | 529   | 1260  | 68480 | 50360 | 8080   | 29680 | 58120 | 32900 | 30210 |      |  |
| THE YEAR 282,200 acre-feet                         |       |       |       |       |       |       |        |       |       |       |       |      |  |

# APPENDIX "B-7"

## ARKANSAS RIVER AT LAMAR, COLORADO

| ARKANSAS RIVER AT LAMAR, COLORADO                  |                |       |      |       |                            |       |       |       |        |       |       |       |  |  |
|----------------------------------------------------|----------------|-------|------|-------|----------------------------|-------|-------|-------|--------|-------|-------|-------|--|--|
| Report-Year ending October 31, 1967                |                |       |      |       |                            |       |       |       |        |       |       |       |  |  |
| U S G S Records — Provisional, Subject to Revision |                |       |      |       |                            |       |       |       |        |       |       |       |  |  |
| DAY                                                | NOV.           | DEC.  | JAN. | FEB.  | MAR.                       | APR.  | MAY   | JUNE  | JULY   | AUG.  | SEPT. | OCT.  |  |  |
| 1                                                  | 6.0            | 6.5   | 26   | 29    | 5.0                        | 184   | 482   | 305   | 12     | 484   | 354   | 236   |  |  |
| 2                                                  | 5.5            | 6.0   | 21   | 25    | 4.5                        | 500   | 513   | 143   | 11     | 506   | 373   | 227   |  |  |
| 3                                                  | 6.0            | 6.5   | 15   | 25    | 4.0                        | 518   | 504   | 94    | 13     | 512   | 339   | 227   |  |  |
| 4                                                  | 6.0            | 8.4   | 10   | 25    | 3.0                        | 460   | 495   | 88    | 13     | 534   | 368   | 349   |  |  |
| 5                                                  | 6.0            | 14    | 14   | 26    | 3.0                        | 469   | 460   | 76    | 22     | 540   | 399   | 399   |  |  |
| 6                                                  | 6.0            | 25    | 17   | 26    | 10                         | 536   | 460   | 56    | 40     | 545   | 414   | 383   |  |  |
| 7                                                  | 6.5            | 25    | 31   | 25    | 8.4                        | 575   | 464   | 56    | 18     | 665   | 399   | 404   |  |  |
| 8                                                  | 6.5            | 19    | 26   | 22    | 4.5                        | 595   | 434   | 61    | 16     | 334   | 275   | 393   |  |  |
| 9                                                  | 6.0            | 13    | 25   | 24    | 4.5                        | 590   | 343   | 44    | 22     | 562   | 236   | 383   |  |  |
| 10                                                 | 6.0            | 9.4   | 13   | 22    | 4.5                        | 580   | 407   | 37    | 537    | 534   | 290   | 404   |  |  |
| 11                                                 | 6.0            | 12    | 20   | 22    | 4.5                        | 570   | 399   | 36    | 181    | 506   | 290   | 409   |  |  |
| 12                                                 | 6.0            | 10    | 33   | 22    | 4.5                        | 575   | 399   | 34    | 46     | 468   | 246   | 435   |  |  |
| 13                                                 | 5.5            | 19    | 31   | 22    | 4.5                        | 570   | 399   | 30    | 22     | 474   | 222   | 404   |  |  |
| 14                                                 | 6.0            | 28    | 31   | 22    | 4.5                        | 661   | 425   | 28    | 15     | 457   | 218   | 241   |  |  |
| 15                                                 | 6.0            | 29    | 29   | 21    | 4.5                        | 555   | 429   | 32    | 18     | 419   | 208   | 218   |  |  |
| 16                                                 | 6.0            | 24    | 29   | 21    | 5.0                        | 536   | 412   | 235   | 21     | 452   | 168   | 236   |  |  |
| 17                                                 | 6.0            | 20    | 28   | 22    | 5.0                        | 536   | 412   | 65    | 30     | 324   | 164   | 275   |  |  |
| 18                                                 | 6.0            | 21    | 33   | 21    | 5.0                        | 532   | 425   | 51    | 1220   | 319   | 160   | 275   |  |  |
| 19                                                 | 6.0            | 21    | 35   | 24    | 5.0                        | 518   | 382   | 21    | 441    | 724   | 160   | 181   |  |  |
| 20                                                 | 6.0            | 21    | 37   | 22    | 5.0                        | 504   | 373   | 100   | 40     | 354   | 195   | 160   |  |  |
| 21                                                 | 6.5            | 19    | 37   | 20    | 5.0                        | 522   | 287   | 49    | 9.8    | 300   | 181   | 160   |  |  |
| 22                                                 | 7.4            | 22    | 35   | 21    | 5.0                        | 513   | 283   | 16    | 11     | 231   | 190   | 126   |  |  |
| 23                                                 | 7.4            | 13    | 31   | 20    | 4.5                        | 527   | 347   | 12    | 190    | 222   | 173   | 114   |  |  |
| 24                                                 | 7.4            | 14    | 25   | 19    | 4.5                        | 522   | 347   | 16    | 208    | 260   | 177   | 79    |  |  |
| 25                                                 | 6.5            | 15    | 24   | 12    | 4.5                        | 522   | 321   | 15    | 676    | 290   | 218   | 67    |  |  |
| 26                                                 | 6.5            | 17    | 21   | 10    | 4.0                        | 522   | 317   | 15    | 1800   | 295   | 290   | 58    |  |  |
| 27                                                 | 6.5            | 16    | 25   | 10    | 4.0                        | 522   | 304   | 132   | 393    | 295   | 314   | 44    |  |  |
| 28                                                 | 6.0            | 37    | 24   | 7.4   | 3.5                        | 518   | 192   | 24    | 251    | 270   | 295   | 36    |  |  |
| 29                                                 | 6.5            | 29    | 25   |       | 3.0                        | 495   | 204   | 15    | 195    | 354   | 265   | 34    |  |  |
| 30                                                 | 6.5            | 29    | 29   |       | 2.5                        | 478   | 247   | 13    | 164    | 373   | 251   | 33    |  |  |
| 31                                                 |                | 25    | 28   |       | 2.5                        |       | 3230  |       | 218    | 419   |       | 25    |  |  |
| TOTAL                                              | sec. ft. 187.2 | 573.8 | 808  | 587.4 | 141.9                      | 15705 | 14696 | 1899  | 6853.8 | 13022 | 7832  | 7015  |  |  |
| ac. ft. 371                                        | 1140           | 1600  | 1170 | 281   | 31150                      | 29150 | 3770  | 13590 | 25830  | 15530 |       | 13910 |  |  |
|                                                    |                |       |      |       | THE YEAR 137,500 acre-feet |       |       |       |        |       |       |       |  |  |

# APPENDIX "B-8"

## ARKANSAS RIVER AT THE COLORADO-KANSAS STATELINE

| ARKANSAS RIVER AT THE COLORADO-KANSAS STATELINE         |      |      |      |      |      |       |       |       |       |       |       |       |  |
|---------------------------------------------------------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|--|
| Report-Year ending October 31, 1967                     |      |      |      |      |      |       |       |       |       |       |       |       |  |
| U. S. G. S. Records. — Provisional, Subject to Revision |      |      |      |      |      |       |       |       |       |       |       |       |  |
| DAY                                                     | NOV. | DEC. | JAN. | FEB. | MAR. | APR.  | MAY   | JUNE  | JULY  | AUG.  | SEPT. | OCT.  |  |
| 1                                                       | 125  | 115  | 75   | 130  | 103  | 77    | 499   | 1950  | 209   | 345   | 605   | 341   |  |
| 2                                                       | 148  | 122  | 80   | 136  | 108  | 93    | 498   | 679   | 160   | 488   | 584   | 336   |  |
| 3                                                       | 148  | 122  | 82   | 145  | 110  | 265   | 521   | 490   | 132   | 537   | 596   | 316   |  |
| 4                                                       | 115  | 151  | 90   | 133  | 115  | 416   | 538   | 412   | 142   | 520   | 547   | 313   |  |
| 5                                                       | 118  | 142  | 94   | 128  | 89   | 415   | 567   | 371   | 740   | 453   | 555   | 340   |  |
| 6                                                       | 130  | 136  | 100  | 128  | 91   | 421   | 613   | 321   | 281   | 486   | 513   | 396   |  |
| 7                                                       | 130  | 128  | 95   | 118  | 93   | 466   | 586   | 275   | 234   | 1103  | 500   | 416   |  |
| 8                                                       | 128  | 136  | 90   | 115  | 128  | 488   | 558   | 331   | 197   | 825   | 472   | 449   |  |
| 9                                                       | 125  | 139  | 86   | 120  | 108  | 513   | 549   | 329   | 168   | 549   | 394   | 498   |  |
| 10                                                      | 118  | 122  | 95   | 120  | 99   | 542   | 437   | 285   | 181   | 674   | 421   | 491   |  |
| 11                                                      | 115  | 108  | 120  | 120  | 95   | 566   | 484   | 265   | 450   | 644   | 471   | 518   |  |
| 12                                                      | 110  | 128  | 140  | 128  | 91   | 623   | 480   | 246   | 316   | 652   | 417   | 519   |  |
| 13                                                      | 103  | 115  | 140  | 136  | 87   | 547   | 472   | 196   | 250   | 676   | 377   | 509   |  |
| 14                                                      | 103  | 105  | 212  | 139  | 85   | 593   | 503   | 171   | 184   | 625   | 359   | 465   |  |
| 15                                                      | 103  | 112  | 163  | 151  | 85   | 633   | 539   | 193   | 162   | 559   | 345   | 379   |  |
| 16                                                      | 99   | 112  | 160  | 154  | 89   | 572   | 552   | 359   | 204   | 532   | 344   | 345   |  |
| 17                                                      | 99   | 101  | 145  | 154  | 83   | 541   | 538   | 330   | 191   | 506   | 320   | 352   |  |
| 18                                                      | 95   | 110  | 128  | 176  | 83   | 562   | 503   | 616   | 582   | 409   | 294   | 368   |  |
| 19                                                      | 95   | 115  | 128  | 186  | 85   | 554   | 475   | 377   | 1600  | 395   | 300   | 386   |  |
| 20                                                      | 93   | 115  | 130  | 157  | 83   | 544   | 445   | 389   | 604   | 699   | 285   | 337   |  |
| 21                                                      | 97   | 115  | 136  | 125  | 83   | 507   | 446   | 465   | 349   | 463   | 271   | 304   |  |
| 22                                                      | 99   | 118  | 151  | 122  | 87   | 494   | 404   | 352   | 250   | 401   | 287   | 287   |  |
| 23                                                      | 101  | 90   | 151  | 112  | 99   | 500   | 353   | 316   | 197   | 337   | 307   | 268   |  |
| 24                                                      | 97   | 100  | 160  | 105  | 115  | 521   | 366   | 284   | 242   | 309   | 313   | 270   |  |
| 25                                                      | 95   | 110  | 139  | 99   | 97   | 523   | 355   | 207   | 398   | 308   | 316   | 277   |  |
| 26                                                      | 99   | 90   | 130  | 97   | 87   | 513   | 358   | 179   | 545   | 308   | 313   | 264   |  |
| 27                                                      | 103  | 70   | 130  | 99   | 65   | 513   | 399   | 172   | 1280  | 316   | 336   | 227   |  |
| 28                                                      | 105  | 60   | 130  | 97   | 65   | 592   | 402   | 232   | 476   | 357   | 364   | 208   |  |
| 29                                                      | 110  | 65   | 133  |      | 77   | 674   | 367   | 255   | 344   | 383   | 355   | 200   |  |
| 30                                                      | 110  | 70   | 145  |      | 65   | 557   | 412   | 234   | 282   | 443   | 323   | 227   |  |
| 31                                                      |      | 70   | 139  |      | 65   |       | 1450  | 264   | 264   | 534   |       | 231   |  |
| TOTAL                                                   |      |      |      |      |      |       |       |       |       |       |       |       |  |
| sec. ft.                                                | 3316 | 3392 | 3897 | 3630 | 2815 | 14931 | 15689 | 11281 | 11614 | 15833 | 11885 | 10837 |  |
| ac. ft.                                                 | 6580 | 6730 | 7730 | 7200 | 5580 | 29420 | 31120 | 22380 | 23040 | 31403 | 23570 | 21490 |  |

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

THE YEAR 216,200 acre-feet

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

# APPENDIX "B-9"

## ARKANSAS RIVER AT GARDEN CITY, KANSAS

| ARKANSAS RIVER AT GARDEN CITY, KANSAS              |      |      |      |      |      |      |          |        |           |      |       |      |
|----------------------------------------------------|------|------|------|------|------|------|----------|--------|-----------|------|-------|------|
| Report-Year ending October 31, 1967                |      |      |      |      |      |      |          |        |           |      |       |      |
| U S G S Records — Provisional, Subject to Revision |      |      |      |      |      |      |          |        |           |      |       |      |
| DAY                                                | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY      | JUNE   | JULY      | AUG. | SEPT. | OCT. |
| 1                                                  | 94   | 80   | 69   | 187  | 146  | 16   | 10       | 269    | 252       | 66   | 40    | 18   |
| 2                                                  | 90   | 120  | 80   | 183  | 145  | 16   | 8.5      | 1080   | 247       | 55   | 55    | 20   |
| 3                                                  | 85   | 139  | 78   | 179  | 143  | 18   | 8.6      | 804    | 228       | 49   | 62    | 18   |
| 4                                                  | 86   | 100  | 89   | 171  | 143  | 20   | 8.9      | 587    | 224       | 47   | 65    | 18   |
| 5                                                  | 95   | 112  | 105  | 164  | 138  | 19   | 11       | 470    | 239       | 47   | 63    | 17   |
| 6                                                  | 69   | 138  | 110  | 163  | 139  | 22   | 12       | 434    | 237       | 47   | 62    | 17   |
| 7                                                  | 67   | 166  | 87   | 165  | 135  | 24   | 13       | 392    | 349       | 41   | 59    | 16   |
| 8                                                  | 67   | 176  | 87   | 158  | 123  | 23   | 14       | 355    | 296       | 44   | 62    | 16   |
| 9                                                  | 63   | 172  | 94   | 159  | 126  | 22   | 15       | 309    | 271       | 102  | 65    | 18   |
| 10                                                 | 64   | 169  | 108  | 156  | 135  | 22   | 14       | 296    | 247       | 59   | 49    | 20   |
| 11                                                 | 60   | 136  | 125  | 156  | 129  | 28   | 15       | 291    | 237       | 53   | 38    | 21   |
| 12                                                 | 53   | 119  | 140  | 156  | 128  | 27   | 16       | 299    | 231       | 44   | 34    | 18   |
| 13                                                 | 50   | 124  | 158  | 153  | 124  | 31   | 19       | 265    | 321       | 38   | 46    | 10   |
| 14                                                 | 46   | 138  | 170  | 154  | 121  | 23   | 21       | 201    | 272       | 39   | 43    | 10   |
| 15                                                 | 40   | 152  | 179  | 154  | 105  | 22   | 25       | 121    | 216       | 45   | 38    | 16   |
| 16                                                 | 36   | 168  | 200  | 149  | 83   | 21   | 19       | 166    | 207       | 37   | 29    | 17   |
| 17                                                 | 30   | 162  | 197  | 151  | 75   | 22   | 14       | 291    | 178       | 42   | 28    | 19   |
| 18                                                 | 26   | 157  | 152  | 151  | 67   | 21   | 13       | 409    | 180       | 46   | 31    | 30   |
| 19                                                 | 21   | 145  | 136  | 152  | 61   | 20   | 12       | 364    | 154       | 46   | 31    | 41   |
| 20                                                 | 18   | 140  | 189  | 152  | 59   | 19   | 16       | 450    | 387       | 62   | 25    | 48   |
| 21                                                 | 19   | 135  | 229  | 154  | 57   | 18   | 19       | 427    | 435       | 78   | 21    | 66   |
| 22                                                 | 23   | 138  | 215  | 152  | 58   | 19   | 24       | 390    | 294       | 125  | 22    | 84   |
| 23                                                 | 26   | 100  | 210  | 148  | 60   | 18   | 17       | 400    | 202       | 96   | 21    | 112  |
| 24                                                 | 29   | 69   | 203  | 143  | 56   | 18   | 13       | 355    | 145       | 68   | 20    | 96   |
| 25                                                 | 28   | 63   | 193  | 146  | 47   | 18   | 11       | 330    | 118       | 49   | 20    | 163  |
| 26                                                 | 26   | 63   | 192  | 147  | 44   | 18   | 11       | 318    | 101       | 39   | 23    | 150  |
| 27                                                 | 28   | 63   | 192  | 142  | 39   | 17   | 12       | 312    | 98        | 36   | 18    | 114  |
| 28                                                 | 44   | 30   | 187  | 142  | 36   | 15   | 20       | 288    | 106       | 34   | 19    | 123  |
| 29                                                 | 44   | 31   | 182  |      | 32   | 13   | 36       | 260    | 211       | 31   | 19    | 163  |
| 30                                                 | 45   | 44   | 181  |      | 26   | 11   | 52       | 254    | 120       | 36   | 19    | 182  |
| 31                                                 |      | 52   | 184  |      | 17   |      | 83       |        | 84        | 36   |       | 165  |
| TOTAL                                              | 1472 | 3601 | 4721 | 4387 | 2797 | 601  | 583.0    | 11197  | 6867      | 1637 | 1127  | 1826 |
| sec. ft.                                           | 2920 | 7140 | 9360 | 8700 | 5550 | 1190 | 1160     | 22210  | 13620     | 3250 | 2240  | 3620 |
| ac. ft.                                            |      |      |      |      |      |      | THE YEAR | 80,960 | acre-feet |      |       |      |

## APPENDIX "B-10"

# DEMANDS BY COLORADO FOR WATER RELEASES FROM CONSERVATION POOL

Report Year Ending October 31, 1967

U. S. Corps of Army Engineers, and Orders by the Secretary of the Arkansas River Compact Administration  
(Provisional, Subject to Revision)  
Report Year Ending October 31, 1967

### Units in Second Feet

[illegible]

# **APPENDIX "B-11"** **DEMANDS BY KANSAS FOR WATER RELEASES FROM CONSERVATION POOL**

DEMANDS BY KANSAS FOR WATER RELEASES FROM CONSERVATION POOL  
Report Year Ending October 31, 1967  
U. S. Corps of Army Engineers, and Orders by the Secretary of the Arkansas River Compact Administration  
(Provisional, Subject to Revision)

| DAY      | NOV. | DEC. | JAN.                              | FEB. | MAR. | APR.   | MAY                  | JUNE      | JULY  | AUG.   | SEPT.  | OCT.             |
|----------|------|------|-----------------------------------|------|------|--------|----------------------|-----------|-------|--------|--------|------------------|
|          |      |      |                                   |      |      |        | Units in Second Feet |           |       |        |        |                  |
| 1        |      |      | Open Midnight                     |      |      | 500    | 500                  | 0         | 0     | 500    | 400    | 350              |
| 2        |      |      | Mar. 31                           |      |      | 500    | 500                  | 0         | 0     | 500    | 400    | 350              |
| 3        |      |      |                                   |      |      | 500    | 500                  | 0         | 0     | 500    | 400    | 415              |
| 4        |      |      |                                   |      |      | 500    | 500                  | 0         | 0     | 500    | 400    | 483              |
| 5        |      |      |                                   |      |      | 500    | 500                  | 0         | 0     | 500    | 400    | 500              |
| 6        |      |      |                                   |      |      | 500    | 500                  | 0         | 0     | 500    | 400    | 500              |
| 7        |      |      |                                   |      |      | 500    | 500                  | 0         | 0     | 500    | 303    | 500              |
| 8        |      |      |                                   |      |      | 500    | 500                  | 0         | 0     | 500    | 250    | 500              |
| 9        |      |      |                                   |      |      | 500    | 500                  | 0         | 0     | 500    | 250    | 500              |
| 10       |      |      |                                   |      |      | 500    | 500                  | 0         | 0     | 500    | 250    | 500              |
| 11       |      |      | Note: Variations in discharge     |      |      |        |                      |           |       |        |        |                  |
| 12       |      |      | represent release changes by      |      |      |        |                      |           |       |        |        |                  |
| 13       |      |      | order of the Compact Secretary.   |      |      |        |                      |           |       |        |        |                  |
| 14       |      |      | Twenty seven change orders        |      |      |        |                      |           |       |        |        |                  |
| 15       |      |      | were issued for Kansas during     |      |      |        |                      |           |       |        |        |                  |
| 16       |      |      | the Compact year.                 |      |      |        |                      |           |       |        |        |                  |
| 17       |      |      |                                   |      |      | 500    | 435                  | 0         | 0     | 431    | 250    | 300              |
| 18       |      |      |                                   |      |      | 500    | 400                  | 0         | 0     | 350    | 250    | 300              |
| 19       |      |      |                                   |      |      | 500    | 368                  | 0         | 0     | 350    | 250    | 235              |
| 20       |      |      |                                   |      |      | 500    | 350                  | 0         | 0     | **263  | 250    | 200              |
| 21       |      |      |                                   |      |      | 500    | 319                  | 0         | 0     | 350    | 250    | 200              |
| 22       |      |      | Note: **Reservoir gates closed    |      |      |        |                      |           |       |        |        |                  |
| 23       |      |      | by order of the Compact Secretary |      |      |        |                      |           |       |        |        |                  |
| 24       |      |      | for periods of: 5.5 hours on      |      |      |        |                      |           |       |        |        |                  |
| 25       |      |      | July 25 (#46), 9.5 hours on July  |      |      |        |                      |           |       |        |        |                  |
| 26       |      |      | 26 (#48), and 6 hours on August   |      |      |        |                      |           |       |        |        |                  |
| 27       |      |      | 19 (#58) due to heavy rains be-   |      |      |        |                      |           |       |        |        |                  |
| 28       |      |      | low the reservoir.                |      |      |        |                      |           |       |        |        |                  |
| 29       |      |      |                                   |      |      | 500    | 200                  | 0         | 0     | 500    | 350    | 0                |
| 30       |      |      |                                   |      |      | 500    | 112                  | Closed:   | 300   | 500    | 350    | 0                |
| 31       |      |      |                                   |      |      | 500    | 0                    | 1:30 P.M. | 430   | 454    |        |                  |
| Totals   |      |      |                                   |      |      | 15,000 | 11,921               | 0         | 2,836 | 12,838 | 9,264  | 8,573            |
| Sec. Ft. |      |      |                                   |      |      | 29,745 | 23,639               | 0         | 5,624 | 25,458 | 18,371 | 17,000           |
| Ac. Ft.  |      |      |                                   |      |      |        |                      |           |       |        |        | The Year 119,837 |

# APPENDIX "B-12"

## STATELINE FLOW ON DAYS OF KANSAS DEMAND\*

| STATELINE FLOW ON DAYS OF KANSAS DEMAND*            |      |      |      |      |      |      |       |       |      |      |            |
|-----------------------------------------------------|------|------|------|------|------|------|-------|-------|------|------|------------|
| Report-Year ending October 31, 1967                 |      |      |      |      |      |      |       |       |      |      |            |
| U S G S Records -- Provisional, Subject to Revision |      |      |      |      |      |      |       |       |      |      |            |
| DAY                                                 | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY   | JUNE  | JULY | AUG. | SEPT. OCT. |
| 1                                                   |      |      |      |      |      |      | 499   | 1950  |      | 345  | 605        |
| 2                                                   |      |      |      |      |      |      | 498   | 679   |      | 488  | 584        |
| 3                                                   |      |      |      |      |      |      | 521   |       |      | 537  | 596        |
| 4                                                   |      |      |      |      |      |      | 416   | 938   |      | 520  | 547        |
| 5                                                   |      |      |      |      |      |      | 415   | 567   |      | 453  | 555        |
| 6                                                   |      |      |      |      |      |      | 421   | 613   |      | 486  | 513        |
| 7                                                   |      |      |      |      |      |      | 466   | 588   |      | 1100 | 500        |
| 8                                                   |      |      |      |      |      |      | 488   | 558   |      | 825  | 472        |
| 9                                                   |      |      |      |      |      |      | 513   | 549   |      | 549  | 394        |
| 10                                                  |      |      |      |      |      |      | 542   | 437   |      | 674  | 421        |
| 11                                                  |      |      |      |      |      |      | 566   | 484   |      | 644  | 471        |
| 12                                                  |      |      |      |      |      |      | 623   | 480   |      | 652  | 417        |
| 13                                                  |      |      |      |      |      |      | 547   | 472   |      | 676  | 377        |
| 14                                                  |      |      |      |      |      |      | 593   | 503   |      | 625  | 359        |
| 15                                                  |      |      |      |      |      |      | 633   | 559   |      | 559  | 345        |
| 16                                                  |      |      |      |      |      |      | 572   | 552   |      | 532  | 344        |
| 17                                                  |      |      |      |      |      |      | 541   | 538   |      | 506  | 320        |
| 18                                                  |      |      |      |      |      |      | 562   | 503   |      | 409  | 294        |
| 19                                                  |      |      |      |      |      |      | 554   | 475   |      | 393  | 300        |
| 20                                                  |      |      |      |      |      |      | 544   | 445   |      | 699  | 285        |
| 21                                                  |      |      |      |      |      |      | 507   | 446   |      | 463  | 271        |
| 22                                                  |      |      |      |      |      |      | 494   | 404   |      | 401  | 287        |
| 23                                                  |      |      |      |      |      |      | 500   | 353   |      | 337  | 307        |
| 24                                                  |      |      |      |      |      |      | 521   | 366   |      | 309  | 313        |
| 25                                                  |      |      |      |      |      |      | 529   | 355   | 398  | 308  | 316        |
| 26                                                  |      |      |      |      |      |      | 513   | 358   | 545  | 308  | 313        |
| 27                                                  |      |      |      |      |      |      | 513   | 399   | 1280 | 316  | 336        |
| 28                                                  |      |      |      |      |      |      | 592   | 402   | 476  | 357  | 364        |
| 29                                                  |      |      |      |      |      |      | 674   | 367   | 344  | 383  | 356        |
| 30                                                  |      |      |      |      |      |      | 557   | 412   | 282  | 443  | 323        |
| 31                                                  |      |      |      |      |      |      | 1450  |       | 264  | 534  |            |
| TOTAL                                               |      |      |      |      |      |      | 14396 | 15689 | 2629 | 3589 | 15833      |
| sec. ft.                                            |      |      |      |      |      |      | 28350 | 31120 | 5210 | 7120 | 31400      |
| ac. ft.                                             |      |      |      |      |      |      |       |       |      |      |            |

\*Three days' time is allowed for water released from John Martin Reservoir to reach State line.

# APPENDIX "B-13"

## DIVERSIONS BY DITCHES IN COLORADO WATER DISTRICTS 14 AND 17

Report-Year Ending October 31, 1967.

Source of Information: Water Commissioners Special Reports to Division Engineer  
Reservoir Water is that from Upstream Reservoirs above Pueblo, Colorado

| DITCHES                   | Units in Acre Feet |        |        |        |        |        |        |         |         |        |        |        | COMPACT |
|---------------------------|--------------------|--------|--------|--------|--------|--------|--------|---------|---------|--------|--------|--------|---------|
|                           | NOV.               | DEC.   | JAN.   | FEB.   | MAR.   | APR.   | MAY    | JUNE    | JULY    | AUG.   | SEPT.  | OCT.   | YEAR    |
| Bessemer (River)          | 4,132              | 1,527  | 0      | 2,560  | 4,160  | 3,236  | 5,895  | 9,905   | 10,766  | 4,398  | 4,097  | 4,406  | 55,082  |
| Res. or Imported          | 0                  | 0      | 0      | 0      | 0      | 0      | 0      | 0       | 0       | 143    | 1,158  | 0      | 1,301   |
| Total Bessemer            | 4,132              | 1,527  | 0      | 2,560  | 4,160  | 3,236  | 5,895  | 9,905   | 10,766  | 4,541  | 5,255  | 4,406  | 56,383  |
| West Pueblo (River)       | 192                | 147    | 0      | 0      | 62     | 143    | 347    | 531     | 349     | 196    | 190    | 196    | 2,353   |
| Booth-Orchard Grove (Riv) | 740                | 0      | 0      | 0      | 1,033  | 841    | 1,069  | 1,049   | 1,088   | 1,178  | 1,031  | 863    | 8,924   |
| Excelsior (River)         | 0                  | 0      | 0      | 0      | 0      | 0      | 383    | 778     | 575     | 0      | 0      | 0      | 1,736   |
| Collier (River)           | 0                  | 0      | 0      | 0      | 0      | 0      | 145    | 1       | 278     | 0      | 0      | 0      | 424     |
| Colorado Canal (River)    | 0                  | 1,610  | 6,445  | 0      | 0      | 0      | 0      | 6,661   | 4,035   | 0      | 0      | 0      | 18,751  |
| Res. or Imported          | 0                  | 0      | 0      | 0      | 0      | 0      | 8,225  | 2,251   | 7,593   | 14,476 | 3,359  | 0      | 35,904  |
| Total Colo. Canal         | 0                  | 1,610  | 6,445  | 0      | 0      | 0      | 8,225  | 2,251   | 7,593   | 14,476 | 3,359  | 0      | 54,655  |
| Highline Canal (River)    | 5,128              | 4,850  | 3,137  | 4,704  | 3,659  | 3,403  | 5,945  | 13,221  | 10,405  | 4,853  | 5,034  | 5,788  | 70,187  |
| Res. or Imported          | 0                  | 0      | 0      | 0      | 0      | 0      | 234    | 0       | 117     | 821    | 482    | 0      | 1,654   |
| Total Highline            | 5,128              | 4,850  | 3,137  | 4,704  | 3,659  | 3,403  | 6,179  | 13,221  | 10,522  | 5,674  | 5,516  | 5,788  | 71,841  |
| Oxford Farmers (River)    | 1,321              | 970    | 422    | 1,404  | 910    | 833    | 2,479  | 4,337   | 4,200   | 2,802  | 2,945  | 1,341  | 23,964  |
| Res. or Imported          | 0                  | 0      | 0      | 0      | 0      | 0      | 0      | 0       | 0       | 0      | 0      | 0      | 0       |
| Total Oxford Farmers      | 1,321              | 970    | 422    | 1,404  | 910    | 833    | 2,479  | 4,337   | 4,200   | 2,802  | 2,945  | 1,341  | 23,964  |
| Otero Canal (River)       | 0                  | 0      | 145    | 0      | 0      | 0      | 42     | 1,329   | 779     | 0      | 0      | 0      | 2,295   |
| Catlin Canal (River)      | 6,425              | 5,404  | 2,961  | 8,588  | 3,343  | 954    | 4,638  | 13,859  | 15,075  | 12,207 | 11,898 | 7,567  | 92,919  |
| Res. or Imported          | 0                  | 0      | 0      | 0      | 0      | 0      | 0      | 0       | 0       | 0      | 0      | 0      | 0       |
| Total Catlin Canal        | 6,425              | 5,404  | 2,961  | 8,588  | 3,343  | 954    | 4,638  | 13,859  | 15,075  | 12,207 | 11,898 | 7,567  | 92,919  |
| Holbrook (River)          | 0                  | 750    | 4,840  | 0      | 0      | 0      | 2,344  | 9,554   | 8,989   | 125    | 0      | 0      | 26,602  |
| Rocky Ford (River)        | 3,645              | 2,788  | 1,273  | 2,342  | 4,848  | 5,816  | 5,237  | 4,864   | 4,668   | 5,842  | 4,329  | 4,043  | 49,695  |
| Fort Lyon Storage (Riv.)  | 0                  | 0      | 0      | 0      | 0      | 0      | 1,640  | 1,350   | 4,737   | 0      | 0      | 0      | 7,727   |
| Fort Lyon Canal (River)   | 13,014             | 17,825 | 18,372 | 13,701 | 8,983  | 5,386  | 12,217 | 36,975  | 44,116  | 16,915 | 16,732 | 11,133 | 215,369 |
| Las Animas Town and       |                    |        |        |        |        |        |        |         |         |        |        |        |         |
| Jones Consolidated (Riv.) | 2,221              | 0      | 1,297  | 1,866  | 2,019  | 2,239  | 3,355  | 6,225   | 4,704   | 4,462  | 4,111  | 2,923  | 35,422  |
| <b>TOTALS</b>             |                    |        |        |        |        |        |        |         |         |        |        |        |         |
| RIVER                     | 36,818             | 35,871 | 38,892 | 35,197 | 29,017 | 22,851 | 45,736 | 110,639 | 114,764 | 52,978 | 50,427 | 38,260 | 611,450 |
| Res. or Imported          | 0                  | 0      | 0      | 0      | 0      | 0      | 8,459  | 2,251   | 7,710   | 15,440 | 4,999  | 0      | 38,859  |
| <b>GRAND TOTAL</b>        | 36,818             | 35,871 | 38,892 | 35,197 | 29,017 | 22,851 | 54,195 | 112,890 | 122,474 | 68,418 | 55,426 | 38,260 | 650,309 |

# APPENDIX "B-14"

## DIVERSIONS BY DITCHES IN COLORADO WATER DISTRICT 67

Report-Year ending on October 31, 1967  
Source of Information: Water Commissioner's Special Report to Division Engineer\*  
Units in Acre Feet

| Name of Ditch       | NOV. | DEC. | JAN. | FEB. | MAR. | APR.  | MAY   | JUNE  | JULY  | AUG.  | SEPT. | OCT.  | COMPACT YEAR |
|---------------------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|--------------|
| Fort Bent Canal     | 936  | 104  | 0    | 272  | 700  | 3984  | 3016  | 490   | 3113  | 4188  | 1921  | 1735  | 20459        |
| Keesee Ditch        | 50   | 238  | 0    | 0    | 0    | 686   | 490   | 0     | 357   | 999   | 684   | 482   | 3986         |
| Amity Canal         | 593  | 0    | 0    | 0    | 0    | 21656 | 19683 | 5428  | 15616 | 19776 | 12626 | 11424 | 106802       |
| Lamar Canal         | 1918 | 563  | 0    | 44   | 730  | 7135  | 5894  | 3464  | 6685  | 9374  | 3756  | 4020  | 43783        |
| Hyde Ditch          | 178  | 184  | 148  | 0    | 0    | 416   | 488   | 190   | 307   | 371   | 357   | 345   | 2984         |
| Manval Canal        | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0            |
| XYZ Graham Canals   | 331  | 430  | 0    | 0    | 42   | 1585  | 1477  | 462   | 1491  | 2259  | 987   | 1015  | 10079        |
| Buffalo Canal       | 1600 | 1315 | 80   | 442  | 178  | 3218  | 2562  | 1273  | 2491  | 2905  | 1910  | 2005  | 19979        |
| Sisson-Stubbs Canal | 0    | 0    | 0    | 0    | 0    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0            |
| GRAND TOTAL         | 5606 | 2834 | 228  | 758  | 1650 | 38680 | 33610 | 11307 | 30260 | 39872 | 22241 | 21026 | 208072       |

\*Note: For the 1966-'67 Compact Year the Water Commissioners have reported the daily diversions of water from ditches shown. Prior to the foregoing water year all diversion data was supplied by the Arkansas Valley Ditch Association on daily reports from the Division Engineer.

# APPENDIX "B-15"

## DIVERSIONS BY DITCHES IN KANSAS

Report Year Ending October 31, 1967  
(Acre Feet)

Frontier Ditch, U. S. G. S. Records  
Other Ditches, Kansas Division of Water Resources Records

|                                | NOV.   | DEC.  | JAN. | FEB. | MAR.  | APR.   | MAY    | JUNE  | JULY   | AUG.   | SEPT.  | OCT.   | THE YEAR |
|--------------------------------|--------|-------|------|------|-------|--------|--------|-------|--------|--------|--------|--------|----------|
| Frontier Ditch                 | 0      | 0     | 0    | 0    | 0     | 2,070  | 2,220  | 961   | 1,580  | 2,360  | 1,760  | 1,700  | *12,651  |
| Alamo Canal                    | 0      | 0     | 0    | 0    | 0     | 0      | 0      | 0     | 0      | 0      | 0      | 0      | 0        |
| Ft. Aubrey Canal               | 0      | 0     | 0    | 0    | 623   | 1,543  | 1,300  | 0     | 364    | 917    | 808    | 535    | 6,090    |
| Total Stateline                | 0      | 0     | 0    | 0    | 623   | 3,163  | 3,520  | 961   | 1,944  | 3,277  | 2,568  | 2,235  | 18,741   |
| to Syracuse                    | 2,037  | 0     | 0    | 0    | 228   | 6,007  | 8,247  | 700   | 8,225  | 8,523  | 9,987  | 6,827  | 50,787   |
| Amazon Canal                   | 0      | 0     | 0    | 0    | 2,077 | 4,969  | 5,246  | 371   | 764    | 4,147  | 2,033  | 2,340  | 21,947   |
| Great Eastern Canal            | 5,671  | 3,584 | 0    | 0    | 0     | 4,929  | 7,051  | 2,570 | 2,790  | 5,357  | 4,612  | 5,152  | 41,716   |
| South Side Ditch               | 2,737  | 0     | 0    | 0    | 194   | 5,693  | 4,181  | 0     | 0      | 4,937  | 3,955  | 2,805  | 24,482   |
| Farmers Ditch                  | 0      | 0     | 0    | 0    | 0     | 586    | 886    | 18    | 44     | 1,142  | 280    | 208    | 3,164    |
| Garden City Canal              | 0      | 0     | 0    | 0    | 0     | 0      | 0      | 0     | 0      | 0      | 0      | 0      | 0        |
| Total Syracuse to Garden City  | 10,445 | 3,584 | 0    | 0    | 2,499 | 22,194 | 25,591 | 3,659 | 11,823 | 24,112 | 20,867 | 17,332 | 142,096  |
| Total Stateline to Garden City | 10,445 | 3,584 | 0    | 0    | 3,122 | 25,797 | 29,111 | 4,620 | 13,767 | 27,389 | 23,435 | 19,567 | 160,837  |

\*6,860 acre-feet returned directly to river.

# APPENDIX "B-16"

## SUMMARY TABULATION

|                                         | NOV.   | DEC.   | JAN.   | FEB.   | MAR.   | APR.   | MAY    | JUNE   | JULY   | AUG.   | SEPT.  | OCT.   | YEAR   | FROM APP. NO. |
|-----------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|
| Arkansas River at Las Animas, Colo.     | 1190   | 2690   | 1590   | 1210   | 1150   | 869    | 8290   | 4290   | 5550   | 1440   | 922    | 2320   | 31510  | B-2           |
| Purgatoire River near Las Animas, Colo. | 1530   | 1430   | 2010   | 1290   | 320    | 321    | 6650   | 32380  | 19460  | 16280  | 3430   | 1090   | 86190  | B-3           |
| Inflow to John Martin Reservoir         | 2720   | 4120   | 3600   | 2500   | 1470   | 1190   | 14940  | 36670  | 25010  | 17710  | 4550   | 3410   | 117900 | B-4*          |
| Reservoir contents at end of month      | 187171 | 191036 | 198441 | 198431 | 197949 | 119880 | 85643  | 110009 | 107649 | 67712  | 40273  | 14999  | 14999  | B-5           |
| Net change in reservoir storage         | 1071   | 43865  | 45405  | 41990  | -482   | 67859  | -34237 | 24366  | -2360  | -39937 | -27439 | -25274 | 160445 | B-5           |
| Outflow from John Martin Reservoir      | 1790   | 606    | 232    | 529    | 1260   | 68480  | 50360  | 8080   | 29680  | 58120  | 32900  | 30210  | 282200 | B-6           |
| Diversions in District 67, Colo.        | 5606   | 2834   | 228    | 758    | 1650   | 38680  | 33610  | 11307  | 30260  | 39872  | 22241  | 21026  | 208072 | B-14          |
| Flow at Colorado-Kansas Stateline       | 6580   | 6730   | 7730   | 7200   | 5580   | 29420  | 31120  | 22380  | 23040  | 31400  | 23570  | 21490  | 216200 | B-8           |
| Diversions in Kansas                    | 10445  | 3584   | 0      | 0      | 3122   | 25797  | 29111  | 4620   | 13767  | 27383  | 23435  | 19567  | 160837 | B-15          |
| Arkansas River at Garden City, Kansas   | 2920   | 7140   | 9360   | 8700   | 5550   | 1190   | 1160   | 22210  | 13620  | 3250   | 2240   | 3620   | 80960  | B-9           |

\*Because of computation rules, figures in B-4 are not necessarily the exact sum of B-2 and B-3.

a New capacity table put in use Apr. 1, 1957: contents on Mar. 31, 1967, from new capacity table, 187,739 acre-feet.

b Based on new capacity table being applicable on Oct. 31, 1966.

## **APPENDIX "C"**

\* \* \* \* \*

### **RESOLUTION**

BE IT RESOLVED BY THE ARKANSAS RIVER COMPACT ADMINISTRATION:

WHEREAS, it is fitting that the members of the Arkansas River Compact Administration give recognition to the outstanding public service of Francis M. Bell who in 1961 was appointed by the President of the United States to serve on this Administration as Chairman and Representative of the United States.

WHEREAS, he has provided active and resourceful leadership to this Administration. Testimony of his excellent work and efforts is found in the harmonious relationship that exists among the members.

WHEREAS, his deep personal concern and unrelenting vigorous activity in performing those duties for which he is so eminently qualified shall be greatly missed.

NOW, THEREFORE, BE IT RESOLVED, that deep regret is hereby expressed at the retirement of Francis M. Bell in that the States of Colorado and Kansas will be losing the abilities of a devoted public servant. He leaves us with the best wishes of each member of this Administration for continued good health and happiness.

BE IT FURTHER RESOLVED, that this resolution be spread upon the records of this Administration and that the secretary be instructed to mail a copy to Mr. Bell.

## **APPENDIX "D"**

\* \* \* \* \*

### **RESOLUTION**

BE IT RESOLVED by the Arkansas River Compact Administration in annual meeting assembled that the following memorial be and the same is hereby adopted:

It is with deepest regret that this administration has learned of the death of William E. Leavitt who departed this life on the 18th day of October, 1967.

Mr. Leavitt was for many years the manager of one of the largest, if not the largest distributors and users of irrigation water in the state of Kansas. He was intensely interested in the conservation and beneficial use of the waters of the Arkansas River Water Shed in the states of Colorado and Kansas.

He was a member of the Arkansas River Compact Commission and it was in a great measure due to his personal efforts that an agreement was reached between the two states which settled a long existing controversy.

He was thereafter a member of this administration where he served with distinction and good judgment.

William E. Leavitt was a friendly, kind and considerate man and always a gentleman in all his endeavors, but strongly cemented to his convictions.

This is the way he lived. He did not know any other way to live. He will be greatly missed by all who knew him.

BE IT FURTHER RESOLVED that a copy of this resolution be sent to his surviving wife by the secretary.