Second

Annual Report

ARKANSAS RIVER COMPACT ADMINISTRATION

For the Year 1950

LAMAR, COLORADO

December 12, 1950

THE ADMINISTRATION

HANS KRAMER, *Federal Representative and Chairman*

HARRY B. MENDENHALL, HARRY C. NEVIUS AND CLIFFORD H. STONE
for Colorado

GEORGE S. KNAPP, WILLIAM E. LEAVITT AND ROLAND H. TATE
for Kansas

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INDEX

Annual Report of

ARKANSAS RIVER COMPACT ADMINISTRATION

For the Year 1950

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

Sirs:

Pursuant to Article VIII of the Arkansas River Compact, the Arkansas River Compact Administration submits its 1950 annual report as follows:

1. *Provisions of Administration's By-Laws for Annual Report*

(a) Article VIII of the By-Laws provides:

"1. The report-year referred to in this Article for the making of the annual report shall commence on November 1 and end on the succeeding October 31.

"2. The Administration shall make and transmit on or before January first of each year to the Governors of the States of Colorado and Kansas and to the President of the United States a report covering its activities for the preceding report-year. The annual report shall include, among other things, the following:

"(a) The receipts and expenditures of all funds of the Administration and all pertinent financial data.

"(b) All hydrologic data relating to the Arkansas River which the Administration deems pertinent.

"(c) Statements as to cooperative studies of water supplies made during the preceding year, including cooperative studies and activities with any Federal agency.

"(d) All findings of fact made by the Administration during the preceding year.

"(e) Such other pertinent matters as the Administration may deem advisable."

(b) Since the Arkansas River Compact did not become effective until May 31, 1949, the annual report for the year 1949 covered only a portion of the report-year; but in order to bring up to date the status of the organization of the Administration, it included certain items of information for the period subsequent to October 31, 1949, to December 31, 1949. This report covers the report-year of November 1, 1949, to October 31, 1950.

2. *Members of the Administration*

(a) The members of the Administration remain the same as shown by the last report and are:

Representative of the United States:

Hans Kramer (Brig. General U. S. A.-Ret.)

Colorado Representatives:

Harry B. Mendenhall, Rocky Ford, Colorado
Harry C. Nevius, Lamar, Colorado
Clifford H. Stone, Denver, Colorado

Kansas Representatives:

George S. Knapp, Topeka, Kansas
William E. Leavitt, Garden City, Kansas
Roland H. Tate, Garden City, Kansas

3. ***Meetings, Officers, and Standing Committees of the Administration***

(a) Six meetings of the Administration have been held during the report period. Four of them were held at Lamar, Colorado, on these dates: November 14, 1949; December 13, 1949; March 24, 1950, and August 4, 1950.

One meeting was held at Denver, Colorado, on January 31, 1950; and one meeting was held at Garden City, Kansas, on October 20, 1950. Of these meetings, the annual meeting was held at Lamar, Colorado, on December 13, 1949; the two regular meetings were held at Lamar, Colorado, on March 24, 1950, and August 4, 1950. The meeting held on August 4, 1950, had been postponed from July 25, 1950. The other meetings, hereinabove set out, were all special meetings.

(b) The officers of the Administration remain the same as set forth in the 1949 report of the Administration. They are:

Chairman—Hans Kramer (Brig. General U. S. A.-Ret.), as required by Article VIII C of the Compact.
Vice-Chairman—William E. Leavitt of Garden City, Kansas.
Secretary-Treasurer—Harry C. Nevius of Lamar, Colorado.

(c) The Standing Committees, appointed pursuant to Article V of the By-Laws, remain the same as set forth in the last report of the Administration. They are:

(1) Administrative and Legal:
Clifford H. Stone of Colorado and Roland H. Tate of Kansas.

(2) Engineering Committee:
George S. Knapp of Kansas and Harry C. Nevius of Colorado.

(3) Operations Committee:
Harry B. Mendenhall of Colorado and William E. Leavitt of Kansas.

Hans Kramer, Representative of the United States, is ex-officio member of all Standing Committees.

4. ***Fiscal — Receipts and Expenditures of Funds***

(a) In accordance with Article VIII E of the Compact, requiring the State of Colorado to pay 60 per cent and the State of Kansas 40 per cent of the expenses incident to the administration

of the Compact, there have been paid by each state during the report year to the Administration the following amounts:

State of Colorado	$ 800.00
State of Kansas	533.33
Total	$1,333.33

The 1949 report of the Administration showed that Colorado had paid to the Administration $1,200 and Kansas $800, making a total of $2,000. This results in a total of $3;333.33 for the present biennium (July 1, 1949, to June 30, 1951).

(b) There were expended by the Administration from November 1, 1949, to October 31, 1950, the following amounts:

Disbursements—

1.	12-13-49	James L. Wade, Agent, National Surety Corporation, Secretary Bond	$ 50.00
2.	1-28-50	OutWest Printing and Stationery Company, Office Supplies	26.02
3.	1-28-50	Lamar Daily News, Stationery	26.75
4.	2- 4-50	Peerless Printing Company, Printing Annual Reports	245.00
5.	3-22-50	OutWest Printing and Stationery Company, Office Supplies	20.02
6.	4-17-50	Garden City Telegram, Printing	244.77
7.	4-17-50	Lamar Daily News, Office Supplies and Printing	110.00
8.	5-29-50	Lamar Daily News, Office Supplies	10.25
9.	6- 1-50	Secretary Salary, April and May	200.00
10.	6- 1-50	W. R. Patterson, Reading Holly Drain Gage	61.50
11.	5-29-50	Peerless Printing Company, Binding Legislative Record	50.00
12.	6- 5-50	Mountain States Telephone & Telegraph Company, Installing, Service, Tolls	19.70
13.	7-15-50	Mountain States Telephone & Telegraph Company, June Service, Tolls	27.40
14.	7-15-50	Secretary Salary, June	100.00
15.	7-15-50	W. R. Patterson, Reading Holly Drain Gage	45.00
16.	8- 2-50	Western Union, Cablegram	3.80
17.	8- 2-50	Mountain States Telephone & Telegraph Company, July Service, Tolls	28.10
18.	8- 2-50	W. R. Patterson, Reading Holly Drain Gage	46.50
19.	8- 2-50	Secretary Salary, July	100.00
20.	9-22-50	Mountain States Telephone & Telegraph Company, August Service, Tolls	9.70
21.	9-22-50	W. R. Patterson, Reading Holly Gage, August	46.50
22.	9-22-50	Secretary Salary, August	100.00
23.	10-18-50	J. L. Wade, Agent, National Surety Corporation, Secretary Bond	50.00
24.	10-18-50	Mountain States Telephone & Telegraph Company, September Service, Tolls	11.45
25.	10-18-50	W. R. Patterson, Reading Holly Gage, September	45.00
26.	10-18-50	Secretary Salary, September	100.00
27.	10-18-50	Lamar Daily News, Office Supplies	12.25
28.	10-31-50	W. R. Patterson, Reading Holly Gage, October	46.50
29.	10-31-50	Secretary Salary, October	100.00
30.	10-31-50	Mountain States Telephone & Telegraph Company, October Service, Tolls	10.85
		Total Expenditures	$1,947.06
		Balance on hand, First National Bank, Lamar, Colorado	$1,386.27

(c) The 1949 report of the Administration showed no expenditures. A recapitulation of the receipts and disbursements from the beginning of the biennium (July 1, 1949, to October 31, 1950) is as follows:

Received from Colorado and Kansas	$3,333.33
Expended	1,947.06
Balance on hand, October 31, 1950	$1,386.27

(d) Article VII (5) of the By-Laws of the Administration, in accordance with Article VIII E(3) of the Compact, provides:

> "5. All receipts and disbursements of the Administration shall be audited yearly by a certified public accountant to be selected by the Administration, and the report of audit shall be included in the annual report of the Administration."

Pursuant to this provision of the By-Laws, the receipts and disbursements of the Administration have been audited for the period commencing with the organization of the Administration on July 22, 1949, to October 31, 1950, the end of the report-year. The report of such audit is hereto attached as Appendix A.

(e) The First National Bank of Lamar, Colorado, has been designated by the Administration as the official depository of its funds. Article VIII (2) of the By-Laws provides that disbursements of Administration funds shall be made by check signed by the Treasurer, and countersigned by the Chairman or Vice-Chairman of the Administration. In order to protect Administration funds against loss, the Administration on October 20, 1950, adopted a resolution, a copy of which is attached as Appendix B.

5. *Rules and Regulations*

In accordance with Article VIII B(1) of the Compact and Article VI of the By-Laws of the Administration, Rules and Regulations for the administration of the Arkansas River Compact were adopted by the Administration on March 24, 1950, published and became effective on April 15, 1950. A copy of these Rules and Regulations is attached hereto as Appendix C.

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 and with the Federal agencies in a systematic determination and correlation of the facts as to the flow and diversion of the water of the Arkansas River and as to the operation and siltation of John Martin Reservoir and other related structures; and Article VIII G(2) requests the Director of the United

States Geological Survey, the Commissioner of Reclamation, and the Chief of Engineers, United States Army, to collaborate with the Administration and with appropriate State officials in such determination and correlation of stream flow and of related data. The carrying out of the cooperative studies and activities herein mentioned is assigned, under the By-Laws of the Administration, to the Engineering Committee.

(b) The above-mentioned cooperative studies and activities of the Administration, during the period covered by this report, have consisted of the establishment of gaging stations, a special silt survey of John Martin Reservoir by the Corps of Engineers, and the compilation of hydrological data for the purpose of making this report and for the administration of the Compact provisions.

7. *Water Supply, Reservoir Operation and Hydrological Data*

The Compact year, commencing on November 1, 1949, began with a carry-over in the John Martin Reservoir of 128,700 acree-feet of water. During the winter storage period, the water in storage increased to 158,700 acre-feet. This increase, 30,000 acre-feet, was but 69 per cent of the 42,974 acre-feet accumulating during the like period the year before. Inflow into the reservoir through the irrigation season April 1, 1950, to October 31, 1950, was 103,722 acre-feet. The total inflow into the reservoir for the Compact year was 132,530 acre-feet, compared to 253,100 acre-feet (revised) during the preceding Compact year. The year ended with 58,500 acre-feet remaining in storage.

The early part of the 1950 irrigation season was very dry. Beginning on April 1, 1950, both states made large demands on stored water. This continued until June 20, 1950, when, due to the occurrence of rains, Kansas cancelled its demand for water. Rainfall in Kansas became abundant during July and August and Kansas made no further demand during the season for water. The low in reservoir storage was reached on July 18, 1950, when the supply dropped to 31,297 acre-feet. During the remainder of the season, inflow exceeded the demands of Colorado and reservoir storage increased.

Included as Appendix D are the following hydrologic data:

D-1. Daily discharges, Arkansas River at Pueblo, Colorado, monthly totals corrected for transmountain water.

D-2. Daily discharges, Arkansas River at Las Animas, Colorado.

D-3. Daily discharges, Purgatoire River at Las Animas, Colorado.

D-4. Daily discharges, Arkansas River at the Colorado-Kansas State Line.

D-5. Daily discharges, Arkansas River at Garden City, Kansas.

D-6. Inflow into John Martin Reservoir.
D-7. Outflow from John Martin Reservoir.
D-8. Demands by Colorado for water.
D-9. Demands by Kansas for water.
D-10. State-line flows on days of Kansas Demand.
D-11. Diversions by ditches in Colorado Water Districts 14 and 17.
D-12. Diversions by ditches in Colorado Water District 67.
D-13. Diversions by ditches in Kansas, State Line to Garden City.

8. *Gaging Stations*

The Administration, at its meeting on November 14, 1949, adopted a resolution requesting the Director of the United States Geological Survey, pursuant to the provisions of Article VIII G(2) of the Compact to allot sufficient funds for fiscal year ending June 30, 1951, and from year to year thereafter for the purpose of installing, maintaining and operating gaging stations required for proper administration of the Compact. The following existing and proposed gaging stations were listed in the resolution:

Inflow stations:
Arkansas River at Las Animas, Colorado (existing)
Purgatoire River at Las Animas, Colorado (existing)

Outflow station:
Arkansas River at Caddoa, Colorado (existing)

State line stations:
Arkansas River at Holly, Colorado (existing)
Holly Drain at Holly, Colorado (existing)
Arkansas River at Coolidge, Kansas (proposed)
Frontier Ditch at Coolidge, Kansas (proposed)

In designating the State line stations it was anticipated by the Administration that when constructed and properly rated the proposed stations at Coolidge would replace those at Holly for official determinations of State line flow.

As requested by resolution of the Administration the Director of the Geological Survey solicited the necessary appropriations from the Congress and with the assistance of Colorado and Kansas this effort to obtain funds was successful. As a result there will be available during the fiscal year 1951, $13,800 for the support of the Compact gaging stations.

Since no specific provision for this work had been provided for the fiscal year 1950, the Federal Representative on the Administration released a portion of the funds allotted him for participation in the work of the Administration to carry on the stream gaging work until the beginning of the 1951 fiscal year. Funds released by him

and subsequently allotted for operation of Compact gaging stations amounted to $2,150.

In accordance with the request of the Administration the Geological Survey on July 1, 1950, assumed full responsibility for the operation of the stations on the Arkansas River at Las Animas and Caddoa and that on the Purgatoire River at Las Animas. Prior to that time those stations had been operated by the Corps of Engineers, U. S. Army, with only minor participation by the Survey. Likewise arrangements were made with the Colorado State Engineer whereby on October 1, 1950, the Survey assumed full responsibility for the existing State line stations.

The new State line station on the Arkansas River at Coolidge, Kansas, was constructed during the summer months and placed in operation on October 1, 1950. Plans for the station on Frontier Ditch have been completed and orders placed for the necessary materials. Both stations will be equipped with long-distance communications systems and are expected to be in full operation at the beginning of the 1951 irrigation season.

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.

10. *Change in Regular Meeting Dates of the Administration*

At its meeting on March 24, 1950, the Administration amended its By-Laws to provide for a change in the dates of the regular meetings of the Administration from the third Tuesdays in March and July to the fourth Tuesdays in March and July of each year.

11. *Secretary — Salary*

(a) At the meeting of the Administration, held on March 24, 1950, the Administration directed its Secretary to perform the functions delegated to him under Paragraph 2 of the Rules and Regulations, adopted by the Administration and which became effective on April 15, 1950.

(b) The Administration fixed the compensation of the Secretary in consideration of the performance of the duties imposed upon him by the By-Laws and the Rules and Regulations of the Administration at $100 a month.

12. *Communications Between the Administration and the Arkansas-White-Red Basins Inter-Agency Committee*

The Chairman of the Administration on October 3, 1950, at Dodge City, Kansas, and on October 5, 1950, at Pueblo, Colorado, presented a statement on behalf of the Arkansas River Compact Administration at hearings held by the Arkansas-White-Red Basins Inter-Agency Committee. This statement is identical with a com-

munication, dated September 22, 1950, submitted by him to Colonel Louis W. Prentiss, Chairman of the Inter-Agency Committee. A copy of such communication and the reply of Colonel Prentiss are attached hereto as Appendix E.

Respectfully submitted,

ARKANSAS RIVER COMPACT ADMINISTRATION

By:

BRIG.-GEN. HANS KRAMER, U. S. A. RET.
Representative of the United States and Chairman

HARRY B. MENDENHALL
HARRY C. NEVIUS
CLIFFORD H. STONE
Colorado Members of the Administration

GEORGE S. KNAPP
WILLIAM E. LEAVITT
ROLAND H. TATE
Kansas Members of the Administration

Lamar, Colorado
December 12, 1950

APPENDICES

For

Annual Report of the Arkansas River Compact Administration

For the Year 1950

APPENDIX "A" —Audit of Administration Finances

APPENDIX "B" —Bank Deposits Resolution.

APPENDIX "C" —Rules and Regulations.

APPENDIX "D-1" —Daily Discharges, Arkansas River at Pueblo, Colorado

APPENDIX "D-2" —"Daily Discharges, Arkansas River at Las Animas, Colorado.

APPENDIX "D-3" —Daily Discharges, Purgatoire River at Las Animas, Colorado.

APPENDIX "D-4" —Daily Discharges, Arkansas River at the Colorado-Kansas State Line.

APPENDIX "D-5" —Daily Discharges, Arkansas River at Garden City, Kansas.

APPENDIX "D-6" —Inflow into John Martin Reservoir

APPENDIX "D-7" —Outflow from John Martin Reservoir.

APPENDIX "D-8" —Demands by Colorado for Water.

APPENDIX "D-9" —Demands by Kansas for Water.

APPENDIX "D-10"—State-Line Flow on Days of Kansas Demand.

APPENDIX "D-11"—Diversions by Ditches in Colorado Water Districts 14 and 17.

APPENDIX "D-12"—Diversions by Ditches in Colorado Water District 67.

APPENDIX "D-13"—Diversions by Ditches in Kansas, State Line to Garden City.

APPENDIX "E" —Arkansas-White-Red Basins Correspondence.

APPENDIX "A"

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AUDIT OF ADMINISTRATION FINANCES

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ROBERT W. ROLLINS
Certified Public Accountant
La Junta, Colorado

November 30, 1950

To the Representatives,
Arkansas River Compact Administration,
Lamar, Colorado.

Gentlemen:

As requested by you, I have made an examination of the records of the Arkansas River Compact Administration for the period October 27, 1949, to October 31, 1950, which includes all the transactions of receipts and disbursements of the Compact to date. My Report of the Audit, consisting of Schedule I, page No. 4, together with the following comments, covers the "Report-Year" period ending October 31, 1950.

History

On December 14, 1948, a Compact between the State of Colorado and Kansas was completed for the purpose of settling disputes, apportionment of the waters of the Arkansas River, and the utilization of the benefits arising from the John Martin Reservoir Project. Consent to this interstate compact was given by the Congress of the United States by Public Law 34, 79th Congress, 1st Session. Briefly, the Compact Administration is to receive its funds from the States of Colorado and Kansas in the respective ratio of 60% and 40%. As provided for in the Compact Agreement, the provisions of the Compact are performed by the Administration, consisting of three representatives from Colorado, three representatives from Kansas, and a representative of the United States.

General Comments

Schedule I, page No. 4, a Statement of Receipts and Disbursements reflects by classification the revenues and expenditures of the Administration for the period October 29, 1949, to October 31, 1950. In accordance with the provisions of the By-Laws, Article VIII, this Statement covers the "Report Year" ending October 31, 1950. It will be noted proceeds from Colorado of $1,200.00 and Kansas of $800.00 placed in the official depository at Lamar, Colorado, on October 27, 1949, are included within the scope of the audit.

All disbursements were made by checks drawn on the Administration's account at the First National Bank in Lamar, Colorado. The individual checks were examined for amount, signature and endorsement. The correctness of the amounts disbursed were verified to payee's state-

ment, authorization of payment as evidenced in Minutes of the Meetings of the Representatives or other supporting evidence.

As authorized by the Representatives, the expenditure of reading the Holly Drain Gauge from April 21, 1950, to October 31, 1950, cost $1.50 a day or a total of $291.00.

Secretary-treasurer's bond in the amount of $10,000.00 is carried with the National Surety Corporation. The related expense of $100.00 represents the premium costs for two years.

As reflected on Schedule I, cash in bank at October 31, 1950, amounted to $1,386.27. This amount was reconciled to the amount directly confirmed by that depository.

No office equipment or other capital outlay was acquired during the period under review.

The financial position of the Administration at October 31, 1950, is expressed in the following schedule:

ARKANSAS RIVER COMPACT ADMINISTRATION
Lamar, Colorado

Balance Sheet
October 31, 1950

Assets	
Cash in First National Bank, Lamar, Colorado	$1,386.27
Capital	
Unexpended Fund Balance	$1,386.27

Special Comments

Referring to the requirements relating to the submission of a budget, Article VII paragraph 3 of the By-Laws states, "In each even numbered year the Administration shall adopt and transmit to the Governor of each State its budget covering anticipated expenses for the forthcoming biennium and the amount thereof payable by each State."

A preliminary budget to cover initial expenses of organizing the Administration was submitted by the Secretary at the meeting held in Lamar, Colorado, on November 14, 1949, and consisted of:

	Amount
Office supplies	$ 200.00
Telephone and telegraph for year	500.00
Office equipment	125.00
Printed annual reports	300.00
Auditing expense	150.00
Secretary-treasurer bond	50.00
Publication of official notices	150.00
Total	$1,475.00*

*This budget was tabled temporarily for further study and possible expansion and the subsequent minutes of the Administration's Meetings do not reflect its adoption. At the time the preliminary budget

was offered, the Secretary announced an overall budget could not be determined until agreements had been reached with various agencies for services to be rendered and until the Administration had decided on what employees might be needed and the salaries to be paid. Although the Administration did not approve a budget for the fiscal years ended June 30, 1950, or June 30, 1951, the Representatives specifically authorized such expenditures as the secretary's salary, expense of reading Holly Drainage Gauge, etc.

A biennium budget for the fiscal years ending June 30, 1952, and June 30, 1953, amounting to $5,000.00 for each year was adopted at the Administration's Meeting on August 4, 1950. The writer is advised, said budget will be submitted as required under Article VII of the By-Laws.

Your attention is called to the fact, the Administration has a fiscal year beginning July 1, and ending June 30, and a related budget geared accordingly. The Arkansas River Compact Administration also is required to submit an annual report embracing the period beginning November 1, and ending on the succeeding October 31. Care should be taken, in subsequent years, not to confuse a budget adopted for a fiscal year to the "Report Year."

In conclusion, the writer wishes to point out, the By-Laws prescribe under Article VII paragraph 5, "All receipts and disbursements of the Administration shall be audited yearly by a certified public accountant . . . . . and the report of audit shall be included in the annual report of the Administration." Since Article VII refers to "Fiscal," there arises a question in the writer's mind if the fiscal year ended June 30, is not the period to be examined by the certified public accountant. In view of the problems arising in the future on the preparation of statements reflecting actual revenues and disbursements when compared to budgeted amounts for a fiscal year ending June 30 and the annual report covering receipts and expenditures for the report year ending October 31, the writer suggests the Representatives clarify the Auditor's position in this matter.

As previously mentioned, this Report covers, as directed by you, transactions of the "Report year" ended October 31, 1950.

Respectfully submitted,

ROBERT W. ROLLINS
Certified Public Accountant.

ARKANSAS RIVER COMPACT ADMINISTRATION
Lamar, Colorado

Statement of Receipts and Disbursements
October 27, 1949, to October 31, 1950

Receipts

Revenue from assessments		
Colorado portion 60%	$2,000.00	
Kansas portion 40%	1,333.33	
Total Receipts		$3,333.33

Disbursements

Salary of secretary (April '49-Oct. '50 inc.)		$ 700.00	
Printing			
Legal publications, etc.	$ 402.77		
First annual report	245.00		
		647.77	
Expense of reading Holly Drain Gauge from April 21, 1950 to October 31, 1950		291.00	
Telephone and telegraph		111.00	
Premium on sec'y-treas. bond		100.00	
Office supplies and stationery		97.29	
Total Disbursements			$1,947.06
Cash in bank at October 31, 1950			$1,386.27

Cash on deposit at First National Bank in Lamar

(per direct confirmation) on October 31, 1950		$1,600.87	
Less: Outstanding checks:			
No. 25 Wm. R. Patterson	$ 45.00		
No. 27 Lamar Daily News	12.25		
No. 28 Wm. R. Patterson	46.50		
No. 29 Harry C. Nevius	100.00		
No. 30 Mt. States Tel. & Tel.	10.85	214.60	$1,386.27

APPENDIX "B"

* * * *

BANK DEPOSITS RESOLUTION

(Adopted October 20, 1950)

* * * * *

WHEREAS, the activities of the Arkansas River Compact Administration are financed by funds made available by the States of Colorado and Kansas, under the provisions of the Arkansas River Compact, and such Administration is responsible and accountable to such States for the proper handling and expenditures of such money; and

WHEREAS, appropriate security should be provided in the deposit of such funds in any bank or banks, designated by the Administration as depository, in addition to the bond required of the Secretary-Treasurer of the Administration;

NOW, THEREFORE BE IT RESOLVED, That if the Arkansas River Compact Administration should request and receive a total amount of funds from the States of Colorado and Kansas exceeding $10,000 in its hands at any one time, then arrangements shall be made by the Secretary-Treasurer of the Administration with the depository bank, in the usual and approved manner, for the protection of such deposit, or in lieu of such arrangements, Administration funds, where the total amount in its hands at any one time exceeds $10,000 shall be deposited in two banks, approved as depositories by the Administration, it being the intent and purpose of this resolution to assure protection of Administration funds on deposit in banks which exceed the amount secured under the Federal Deposit Insurance Corporation.

APPENDIX "C"

* * * *

Rules and Regulations of
ARKANSAS RIVER COMPACT ADMINISTRATION
Effective April 15, 1950

Explanatory Statement

The Arkansas River Compact is herein referred to as the "Compact," and the Arkansas River Compact Administration is herein referred to as the "Administration".

Under the Compact, authority and responsibilities for the operation and maintenance of John Martin Dam and Reservoir, for the release of water therefrom, for the interstate operation of the Arkansas River between Colorado and Kansas and for the intrastate distribution of water of that river, are divided among these Federal and State agencies, viz: the Corps of Engineers, United States Army, the Administration and the Chief Official in each of the States of Colorado and Kansas charged with the administration of water rights.

The authority and responsibilities of each of these agencies and officials are recognized to be as follows:

Corps of Engineers, United States Army

1. The Corps of Engineers is authorized to operate and maintain the John Martin Dam and Reservoir for flood control and conservation purposes: Provided, that the conservation pool in such project shall be operated in a manner conforming with the Arkansas River Compact.

2. Under the provisions of the Compact, the maintenance of John Martin Dam and appurtenant works may at times require the Corps of Engineers to release water then impounded in the conservation pool, or to prohibit the storage of water therein, until such maintenance work is completed and that flood control operations may also involve temporary utilization of conservation storage.

The Arkansas River Compact Administration

1. The conservation pool in John Martin Reservoir will be operated for the benefit of water users in Colorado and Kansas, both upstream and downstream from John Martin Dam, as provided in the Compact.

2. The administration has the authority and responsibility to effectuate the apportionment of water between the States of Colorado and Kansas in the manner provided by, and in accordance with, the Arkansas River Compact, including these provisions:

(a) Article V A, B, C, D and E of the Compact relating to the releases, and reduction in releases, of water from storage in the conservation pool of John Martin Reservoir and of river

flow through such reservoir, and also to making such water available for use in each of the two States.

(b) Article V F requiring the Administration to make findings and give notice with respect to the exhaustion of water in the conservation pool of John Martin Reservoir.

(c) Article V H requiring the Administration to make findings of fact with respect to proposed transfer of priority rights to ditches in Colorado Water District Number 67 to points of diversion upstream from John Martin Reservoir and with respect to a proposed increase in diversion rights from the Arkansas River in Water District Number 67 and in Kansas between the Stateline and Garden City, Kansas.

3. The Administration is charged among other duties, with carrying out these additional provisions of the Compact:

(a) Article VII G (1), (2) and (3) requiring the Administration (1) to determine from time to time, in collaboration with appropriate Federal and State agencies, the location of gaging stations required for the proper administration of the Compact; (2) to require, if necessary for the administration of the Compact, the installation and maintenance of measuring devices in any ditch or group of ditches diverting water from the Arkansas River in Colorado or Kansas; (3) to cooperate with the Chief Official of each of the States of Colorado and Kansas charged with the administration of water rights and with Federal agencies in the procurement, interchange, compilation, and publication of all factual data bearing upon the administration of the Compact; and (4) to call upon interested Federal agencies and officials to collaborate with the Administration and with appropriate State officials to facilitate the administration of the Compact.

(b) Article VIII H requiring the Administration to investigate violations of any of the provisions of the Compact or other action prejudicial thereto, which comes to the attention of the Administration, and, when deemed advisable, to report its findings and recommendations to the Chief Official of each of the States of Colorado and Kansas charged with the administration of water rights.

(c) Article VIII B (1) and (2) requiring the Administration to adopt and revoke By-Laws, Rules and Regulations, prescribe procedures for the administration of the Compact, and to adopt and transmit to the Governors of each of the States of Colorado and Kansas in each even-numbered year its budget covering anticipating expenses for the forth-coming biennium.

Chief Official of Each of the States of Colorado and Kansas Charged With the Administration of Water Rights

1. Nothing contained in the Compact, or in the By-Laws and Rules and Regulations of the Administration thereunder, supplants, or is intended to supersede, the authority of the Chief Official of each

of the States of Colorado and Kansas charged with the administration of water rights, with respect to the administration and distribution of water which is available to each of such States under the provisions of the Compact.

2. The Chief Official charged with the administration of water rights in Kansas will exercise full jurisdiction and control over the waters of the Arkansas River that originates in Kansas and over the waters that flow from Colorado across the Stateline into Kansas. (Article VI A (1).

3. The Chief Official of Kansas charged with the administration of water rights is given and assumes exclusive administrative control, under the Compact, over the operations of the Frontier Canal and its headworks for irrigation uses in Kansas to the same extent as though such works were located entirely within the State of Kansas. (Article VI B).

4. Except as otherwise provided, nothing in the Compact shall be construed as supplanting the administration by Colorado of the rights of appropriators of water of the Arkansas River in that State as decreed to such appropriators by the courts of Colorado, nor as interfering with the distribution among such appropriators by Colorado, nor as curtailing the diversion and use for irrigation and other beneficial purposes in Colorado of the waters of the Arkansas River. (Article VI A (2)). Accordingly, the State Engineer of Colorado, by virtue of the authority given him under the Colorado statutes, and in conformity with the Arkansas River Compact, has authority and responsibility as follows:

(a) During such periods of time when no water remains in storage in the conservation pool of John Martin Reservoir and after the Administration, pursuant to Article V F of the Compact, has made a finding that such storage will be or is liable to be exhausted and gives notice thereof as prescribed by Article V F of the Compact, he shall administer the decreed water rights of water users in Colorado Water District Number 67, as against each other, and as against all rights, now or hereafter decreed to water users diverting upstream from John Martin Dam on the basis of relative priorities in the same manner in which their respective priority rights were administered by Colorado before John Martin Dam began to operate. (Article V F).

(b) During such times as there is water in storage in the conservation pool of John Martin Reservoir and water is available for release from such storage or from river flows which may be passed through such reservoir under the provisions of the Compact, he shall administer diversions of water in Colorado Water District Number 67 in accordance with distribution agreements made from time to time by the water users in such District and filed with the Administration and with the State Engineer of Colorado, or in the absence of

such agreements, upon the basis of respective priority decrees, as against each other, in said District (Article V F).

(c) During such times as there is water in storage in the conservation pool of John Martin Reservoir and water is available for release from such storage, or from river flows which may be passed through such reservoir under the provisions of the Compact, he shall administer all rights now or hereafter decreed to water users diverting upstream from John Martin Dam on the basis of relative priorities in the same manner in which their respective priority rights were administered before John Martin Dam began to operate, as against each other and without regard to any priority rights in Colorado Water District Number 67 (Article V F).

(d) He shall furnish pertinent factual data to the Administration upon its request; and he is required to supervise the installation of measuring devices required by the Administration under Article VIII G (3) of the Compact.

(e) He shall collaborate, on behalf of his State, in providing such available facilities, equipment and other assistance as the Administration may need to carry out its duties, in accordance with the provisions of Article VIII F of the Compact.

Rules and Regulations

Based on the foregoing delineation of authority and responsibilities, and with the approval of the Corps of Engineers, these Rules and Regulations for the administration of the Compact are adopted by the Administration, pursuant to Article V E (6) and VIII B (1) of the Compact and in accordance with Article VI of the By-Laws of the Administration.

1. Under the general direction of the Administration, the Operations Committee, set up under Article V of the By-Laws of the Administration, shall have supervision over these Rules and Regulations governing the storage and release of water from the conservation pool of the John Martin Reservoir and over such other Arkansas River interstate administration and operation between the States of Colorado and Kansas as come within the purview of the Compact.

2. The Administration hereby delegates to the Secretary of the Administration, acting under the direct supervision of the Operations Committee, the following duties and functions:

(a) (1) To receive calls from an authorized representative of the water users in Colorado and in Kansas for releases and reduction in releases of water in storage in the conservation pool of John Martin Reservoir and of river flow through such reservoir, under the provisions of the Compact; (2) to ascertain from day to day and from time to time the total quantities of water available and required to fulfill such calls; (3) to request the Reservoir Manager of John Martin Dam and Reservoir of the Corps of Engineers to make releases and

reduction in releases of quantities of water required to meet such calls; and (4) to ascertain from time to time, as necessary, between the first day of April and the 31st day of October of each year, the water available at the Colorado-Kansas Stateline for use in Kansas in order to effectuate the apportionment of water to Kansas as provided by the Compact. For the purpose of carrying out the functions and duties set forth in this Paragraph 2 (a), and in compliance therewith, the Secretary of the Administration is hereby authorized, on behalf of the Administration, to make appropriate and cooperative use of the services of all interested Federal and State agencies and officials.

(b) To be responsible for the day-by-day relations with the Chief Official of each of the States of Colorado and Kansas charged with the administration of water rights, and with the Corps of Engineers.

(c) To maintain such records and prepare such reports covering the functions and duties delegated by these Rules and Regulations as may be required of him from time to time by the Administration.

(d) To report to the Operations Committee, set up under Article V of the Administration's By-Laws, any violations of the provisions of the Compact or other action prejudicial thereto which comes to his attention.

3. The District Engineer, Albuquerque District, Corps of Engineers, or his authorized representative, the Water Commissioner of Colorado Water District Number 67, and the local representative of the U. S. Geological Survey are hereby requested to communicate from time to time to the Secretary of Administration any information and recommendations which relate to, and will aid in, the conservation of water and in the performance of the functions and duties delegated to such Secretary. In the interest of the improvement of operation practices and cooperation, Federal and State officials and agencies are requested to advise the Administration of any complaints or suggestions with respect to the carrying out of these Rules and Regulations.

Effective Date

These Rules and Regulations shall become effective April 15, 1950, and after publication as required by Article VI 3 of the By-Laws of the Administration.

APPENDIX "D-1"

* * * *

ARKANSAS RIVER AT PUEBLO, COLORADO

ARKANSAS RIVER AT PUEBLO, COLORADO
Report Year Ending October 31, 1950
U S G S Records—Preliminary, Subject to Revision

DAY	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.
1	413	261	251	232	140	48	808	1130	985	268	50	70
2	416	260	245	231	146	39	785	1290	972	316	35	119
3	412	255	223	241	127	48	786	1580	984	247	28	108
4	389	242	212	247	114	69	764	1950	1080	196	353	98
5	426	233	231	242	100	81	764	1660	938	149	568	75
6	453	236	262	234	87	36	641	1500	1290	121	627	76
7	452	245	283	207	99	30	441	1610	1330	115	616	67
8	453	258	297	192	90	26	389	1600	1460	176	765	59
9	459	300	308	197	61	28	347	1430	1440	401	559	79
10	435	278	291	158	64	176	340	1580	1530	609	302	79
11	406	280	282	149	69	198	289	1340	1760	618	223	83
12	373	351	310	169	44	155	256	1960	1810	648	93	75
13	347	362	308	191	69	137	269	2250	1140	679	155	70
14	317	345	317	178	145	140	303	2350	1020	678	267	81
15	326	374	324	164	146	164	337	2300	1010	818	98	81
16	326	420	352	188	145	278	302	2260	1060	726	116	89
17	329	418	365	188	111	343	375	2350	864	427	102	85
18	308	376	359	186	118	301	472	2350	807	389	161	69
19	280	338	355	178	101	286	770	2560	647	323	109	61
20	296	316	369	190	90	183	896	2060	677	235	103	69
21	300	358	318	217	124	105	825	1720	688	215	97	69
22	288	370	296	233	33	73	770	1380	598	196	92	73
23	289	337	296	176	23	86	781	1210	1850	172	102	89
24	288	321	297	168	21	251	837	1030	766	178	91	81
25	305	337	301	151	34	833	1280	1090	784	178	107	73
26	288	306	296	147	32	721	1580	1210	1880	287	109	69
27	270	313	297	147	28	690	972	1190	311	323	63	69
28	270	261	241	133	87	743	818	1150	296	293	83	69
29	249	260	268		341	844	771	1040	186	286	83	54
30	255	261	241		237	904	983	1060	167	204	70	65
31		264	232		84		959		322	103		61
TOTAL												
Sec. Ft.	10418	9536	9027	5334	3110	8016	20910	49190	30652	10574	6227	2365
Ac. Ft.	20660	18910	17900	10580	6170	15900	41470	97570	60800	20970	12350	4690
Less upstream res. and transmountain water					-1080	-6310	-8650	-11240	-8800	-12650	-6670	-540
Corrected total, acre feet					5090	9590	32820	86330	52000	8320	5680	4150

THE YEAR 328000 Ac. Ft.
CORRECTED 272000 Ac. Ft.

APPENDIX "D-2"

* * * *

ARKANSAS RIVER AT LAS ANIMAS, COLORADO

ARKANSAS RIVER AT LAS ANIMAS, COLORADO

Report Year Ending October 31, 1950

U S G S Records—Preliminary, Subject to Revision

DAY	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.
1	39	50	78	70	50	22	21	23	31	157	35	84
2	33	223	85	95	50	22	20	22	30	89	35	52
3	31	76	67	130	50	22	42	28	31	68	29	36
4	32	72	61	157	50	22	24	122	23	61	25	36
5	31	74	70	192	48	23	50	122	25	58	24	32
6	65	43	80	151	53	22	33	44	167	77	25	30
7	44	38	100	119	56	21	31	25	209	47	24	30
8	36	52	130	95	145	23	29	22	54	33	25	29
9	33	80	145	90	154	24	30	25	74	30	28	29
10	32	78	140	97	164	25	25	28	67	30	29	27
11	37	100	139	88	167	24	25	38	39	29	33	28
12	44	68	127	92	124	24	23	50	42	27	32	28
13	48	90	119	83	108	30	26	20	85	26	38	27
14	40	120	97	76	95	30	23	29	44	24	276	30
15	38	165	113	58	83	39	24	24	38	23	86	82
16	36	200	83	54	70	36	23	23	36	22	649	77
17	28	150	108	52	70	33	23	44	32	21	220	38
18	24	130	95	48	50	40	23	42	32	20	84	33
19	28	116	102	47	50	29	24	88	124	19	54	27
20	28	105	178	50	47	23	22	181	61	20	44	27
21	31	74	262	48	46	20	22	181	50	20	38	27
22	30	58	157	50	40	20	22	139	30	20	37	27
23	32	59	139	50	31	20	30	40	70	19	37	26
24	31	77	127	50	23	20	22	30	1150	20	53	25
25	32	88	110	46	22	20	25	50	494	20	160	28
26	30	90	88	46	32	20	30	33	1190	92	234	29
27	32	92	120	50	32	18	34	23	4350	344	196	27
28	33	102	90	50	21	20	53	23	316	86	132	25
29	34	102	67		21	23	29	30	1040	64	97	23
30	39	92	70		22	26	23	33	590	44	51	21
31		78	58		22		26		183	37		21
TOTAL												
Sec. Ft.	1051	2942	3405	2234	1996	741	857	1582	10707	1647	2830	1061
Ac. Ft	2080	5840	6750	4430	3960	1470	1700	3140	21040	3270	5610	2100

THE YEAR 61390 Ac. Ft.

APPENDIX "D-3"

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PURGATOIRE RIVER AT LAS ANIMAS, COLORADO

PURGATOIRE RIVER AT LAS ANIMAS, COLORADO
Report Year Ending October 31, 1950
U S G S Records—Preliminary, Subject to Revision

DAY	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.
1	45	9.2	39	14	3.9	2.5	2.0	1.8	22	651	35	35
2	59	12	39	17	3.9	2.5	1.9	1.6	11	500.	14	33
3	45	20	20	19	4.2	2.5	2.0	1.9	7.1	116	8.0	31
4	38	22	7	25	3.7	2.5	2.5	1.9	591	823	6.5	22
5	35	26	8	31	3.7	2.6	5.4	1.5	150	180	5.7	24
6	13	28	9	35	3.0	2.5	3.3	1.6	38	132	5.2	19
7	19	28	10	25	2.5	2.6	2.6	1.3	17	71	5.2	19
8	33	23	11	21	2.6	2.8	3.0	1.4	74	105	13	19
9	31	28	12	21	3.7	2.3	2.5	1.5	136	62	271	22
10	28	31	11	25	4.2	3.1	2.6	1.6	1050	33	165	16
11	74	25	13	25	4.2	2.4	2.4	1.6	65	19	172	14
12	108	20	15	24	3.5	2.4	2.4	1.3	28	112	960	11
13	120	14	17	22	7.1	2.4	2.4	1.4	19	100	292	9.2
14	108	19	19	25	13	2.5	2.2	1.5	16	656	2260	8.9
15	78	26	17	28	11	3.7	1.9	1.3	18	265	360	6.8
16	38	23	26	21	8.6	4.6	1.9	1.4	62	62	1720	6.5
17	32	17	22	18	7.7	4.0	2.2	2.0	74	21	97	14
18	16	12	21	16	6.1	3.3	2.2	2.8	25	9.8	65	22
19	15	12	24	11	4.8	2.8	2.2	1.8	1290	8.9	39	11
20	12	9.8	21	8.3	4.2	2.6	2.2	1410	74	5.4	32	6.3
21	9.8	10	39	5.9	3.5	2.4	2.2	204	20	4.2	24	6.1
22	9.5	13	54	5.2	3.3	2.2	2.2	112	59	3.9	48	5.7
23	9.2	20	38	5.2	3.0	1.9	1.9	22	94	3.5	28	5.7
24	9.5	25	31	4.6	2.8	1.9	2.2	9.8	2260	3.3	20	5.4
25	9.5	16	20	4.6	2.5	1.8	2.6	5.9	278	3.5	112	5.0
26	8.6	17	12	5.0	3.3	1.7	2.3	4.2	1610	480	175	4.6
27	8.6	18	14	5.0	4.2	1.6	1.9	4.0	3760	299	124	4.0
28	8.9	19	19	4.0	3.0	1.7	1.9	3.9	932	31	124	4.0
29	12	21	16		2.5	2.0	1.9	82	891	2250	112	3.9
30	8.6	26	14		2.6	1.9	2.0	78	918	632	108	3.9
31		32	13		2.8		2.2		264	155		3.7
TOTAL Sec. Ft	1041.2	622.0	631	470.8	139.1	75.7	73.0	1967.0	15253.1	7797.5	7400.6	401.7
Ac. Ft.	2060	1230	1250	934	276	150	145	3900	30250	15470	14680	797

THE YEAR 71140 Ac. Ft.

APPENDIX "D-4"

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ARKANSAS RIVER at the COLORADO-KANSAS STATE LINE

ARKANSAS RIVER at the COLORADO-KANSAS STATE LINE

Report Year Ending October 31, 1950

U S G S Records—Preliminary, Subject to Revision

DAY	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.
1	245	161	211	157	155	46.1	338.2	450.1	342	527	274	238
2	248	159	231	179	156	44.1	314	418	260	542	217	223
3	230	150	229	174	154	211	311	349	314	794	170	211
4	206	146	225	160	154	500	302	363	285	568	151	227
5	210	145	255	215	177	497.6	345.5	313	283	461	150	236
6	218	151	210	230	167	510.5	343.2	232	263.7	325.3	134	220
7	209	154	141	211	155	522.6	279	183	244	309	127	212
8	192	139	164	191	130	543.8	249	145	222	246.3	129	197.6
9	187	158	191	180	160	527	232	131	272	233.6	191	221
10	185	157	191	175	125	549	211	122	273	272.4	673	201
11	172	150	194	175	116	531	198	297	249	229	313	194
12	196	126	184	187	90	529.8	222	547	269	178	235	204
13	205	109	183	170	117	513	201	226	234	226	161	184
14	199	126	153	181	150	549	214	205	212	203	177	165
15	193	129	181	178	142	557	201	229	203	235	185	176
16	178	171	159	185	124	577.9	199	260	179	464	381	206
17	166	181	196	185	104	503.2	186	265	150	1199	1497	189
18	172	174	154	175	103	395	208	263	135	1004	717	186
19	193	169	153	169	109	318.7	237	278.4	131.8	524	631	185
20	179	167	217	169	117	305	238	442	255.8	421	535	179
21	185	136	226	176	120	345	325	2774	1288	333	410	191
22	186	125	221	167	109	359	367	530	544	287	387	201
23	184	134	197	153	100	362	334	341	352	262	394	198
24	192	184	184	156	97	322	352	283	305.2	262	426	187
25	180	217	143.6	164	96	309	403	225	336.2	338	362	172
26	172	195	97	166	91	338	468.7	170.1	337.2	219	453	165
27	164	195	125	166	86.8	388.2	420	188	295.2	192	418	165
28	154	202	186	155	85.7	397.0	448	173	534	331	404	153
29	154	193	163		85.1	378.1	629	325	360	351	348	165
30	161	222	107		85.4	387.2	552	392	466	299	336	170
31		190	141		77.7		409		540	261		163
TOTAL												
Sec. Ft.	5715	5015	5612.6	4949	3738.7	12316.8	9736.6	11119.6	10135.1	12096.6	10986	5984.6
Ac. Ft	11320	9930	11110	9800	7400	24390	19280	22020	20070	23950	21750	11850

THE YEAR 192870 Ac. Ft.

The daily discharges shown are the sum of the flows of the Arkansas River at Holly, Wild Horse Creek and the Holly Drain

ARKANSAS RIVER AT GARDEN CITY, KANSAS

Report Year Ending October 31, 1950
U S G S Records—Preliminary, Subject to Revision

DAY	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.
1	271	222	360	131	44	22	62	9	20	1000	377	360
2	258	218	330	165	46	17	53	12	31	716	382	382
3	266	218	168	196	49	19	29	31	99	563	350	345
4	275	222	100	226	44	20	29	40	113	605	306	316
5	293	234	90	280	34	16	31	38	96	1520	242	293
6	275	234	108	382	31	15	36	27	113	648	215	262
7	250	246	122	446	60	20	31	27	88	1010	204	242
8	234	242	134	428	67	22	56	19	67	707	204	234
9	234	234	189	366	60	22	34	15	44	496	211	250
10	266	207	222	326	60	10	23	16	36	458	192	246
11	258	207	254	196	53	15	20	20	34	382	192	246
12	246	200	297	137	40	13	23	31	40	382	250	250
13	246	110	311	113	83	10	29	25	326	549	226	238
14	246	108	316	207	185	16	25	134	204	428	192	226
15	254	137	280	207	148	25	27	42	122	446	182	226
16	250	148	271	222	80	60	19	23	85	434	254	215
17	246	178	258	171	56	75	17	22	62	382	271	189
18	246	218	185	108	51	72	17	17	62	428	366	192
19	238	275	151	88	60	67	16	17	58	1010	1030	200
20	234	266	222	62	134	65	15	15	51	820	741	204
21	234	238	266	42	165	53	16	19	65	622	605	204
22	238	182	330	42	148	40	16	306	88	509	490	200
23	226	139	326	42	70	31	13	563	31	452	410	189
24	222	139	284	42	56	31	13	262	250	416	388	154
25	211	165	204	42	46	29	15	77	266	382	394	113
26	145	182	99	38	44	56	19	42	211	416	394	102
27	148	211	122	44	58	67	16	29	271	394	382	93
28	192	234	145	40	62	53	23	23	360	382	410	90
29	211	262	102		85	53	44	20	404	377	410	88
30	222	335	83		58	58	20	23	458	340	377	90
31		372	90		31		13		656	355		62
TOTAL												
Sec. Ft.	7135	6583	6419	4789	2208	1072	800	1944	4811	17629	10647	6501
Ac. Ft.	14150	13060	12730	9500	4380	2130	1590	3860	9540	34970	21120	12890

THE YEAR 139920 Ac. Ft.

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INFLOW INTO JOHN MARTIN RESERVOIR

INFLOW INTO JOHN MARTIN RESERVOIR

Report Year Ending October 31, 1950
U S G S Records—Preliminary, Subject to Revision

DAY	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.
1	84	59.2	117	84	53.9	24.5	23.0	24.8	53	808	70	119
2	92	235	124	112	53.9	24.5	21.9	23.6	41	589	49	85
3	76	96	87	149	54.2	24.5	44.0	29.9	38.1	184	37	67
4	70	94	68	182	53.7	24.5	26.5	123.9	614	884	31.5	58
5	66	100	78	223	51.7	25.6	55.4	123.5	175	238	29.7	56
6	78	71	89	186	56.0	24.5	36.3	45.6	205	209	30.2	49
7	63	66	110	144	58.5	23.6	33.6	26.3	226	118	29.2	49
8	69	75	141	116	147.6	25.8	32.0	23.4	128	138	38	48
9	64	108	157	111	157.7	26.3	32.5	26.5	210	92	299	51
10	60	109	151	122	168.2	28.1	27.6	29.6	1117	63	194	43
11	111	125	152	113	171.2	26.4	27.4	39.6	104	48	205	42
12	152	88	142	116	127.5	26.4	25.3	51.3	70	139	992	39
13	168	104	136	105	115.1	32.4	28.4	21.4	104	126	330	36.2
14	148	139	116	101	108	32.5	25.2	30.5	60	680	2536	38.9
15	116	191	130	86	94	42.7	25.9	25.3	56	288	446	88.8
16	74	223	109	75	78.6	40.6	24.9	24.4	98	84	2369	83.5
17	60	167	130	70	77.7	37.0	25.2	46.0	106	42	317	52
18	40	142	116	64	56.1	43.3	25.2	44.8	57	29.8	149	55
19	43	128	126	58	54.8	31.8	26.2	89.8	1414	27.9	93	38
20	40	114.8	199	58.3	51.2	25.6	24.2	1591	135	25.4	76	33.3
21	40.8	84	301	53.9	49.5	22.4	24.2	385	70	24.2	62	33.1
22	39.5	71	211	55.2	43.3	22.2	24.2	251	89	23.9	85	32.7
23	41.2	79	177	55.2	34	21.9	31.9	62	164	22.5	65	31.7
24	40.5	102	158	54.6	25.8	21.9	24.2	39.8	3810	23.3	73	30.4
25	41.5	104	130	50.6	24.5	21.8	27.6	55.9	772	23.5	272	33.0
26	38.6	107	100	51	35.3	21.7	32.3	37.2	2800	572	409	33.6
27	40.6	110	134	55	36.2	19.6	35.9	27.0	8110	643	320	31.0
28	41.9	121	109	54	24.0	21.7	54.9	26.9	1248	117	256	29.0
29	46	123	83		23.5	25.0	30.9	112	1931	2314	209	26.9
30	47.6	118	84		24.6	27.9	25.0	111	1508	676	159	24.9
31		110	71		24.8		28.2		447	192		24.7
TOTAL												
Sec. Ft	2092.2	3564	4036	2704.8	2135.1	816.7	930	3549	25960.1	9444.5	10230.6	1462.7
Ac. Ft	4140	7060	7990	5350	4230	1620	1840	7030	51400	18700	20260	2900

THE YEAR 132520 Ac. Ft.

Arkansas River at Las Animas plus Purgatoire River near mouth.

OUTFLOW FROM JOHN MARTIN RESERVOIR

Report Year Ending October 31, 1950
U S G S Records—Preliminary, Subject to Revision

DAY	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.
1	31	18	4.0	4.0	4.5	874	635	747	481	250	173	118
2	7.3	18	4.0	4.0	4.5	1100	635	691	418	241	201	125
3	6.9	18	4.2	4.2	4.5	1190	628	656	118	218	228	140
4	5.7	19	4.2	4.2	4.5	1190	622	570	165	205	232	140
5	5.3	19	4.0	4.5	4.5	1190	602	493	188	210	277	140
6	5.3	20	3.8	4.5	4.5	1190	505	493	318	84	350	140
7	5.3	22	3.5	4.0	4.5	1190	505	481	365	143	418	140
8	4.5	16	3.5	3.8	13	1190	518	481	365	355	463	130
9	4.5	6.9	3.5	3.5	49	1140	518	609	336	162	136	185
10	4.5	6.5	3.8	3.5	53	1190	564	698	390	350	355	254
11	4.9	5.3	4.0	3.5	53	1130	544	670	385	375	406	282
12	5.3	5.3	4.2	3.5	53	1080	544	691	365	406	440	282
13	4.5	5.3	4.5	3.2	53	1070	544	684	380	406	440	313
14	5.7	4.9	4.5	3.5	53	1010	538	684	380	440	434	380
15	4.9	4.9	4.5	3.5	53	986	524	684	375	475	428	406
16	4.5	4.5	4.5	3.5	55	858	602	677	385	499	66	401
17	4.2	4.2	4.5	3.8	63	782	642	684	434	412	56	401
18	4.0	4.0	4.9	3.8	63	754	635	726	434	282	300	401
19	4.2	3.5	4.9	3.8	63	740	691	726	423	282	331	401
20	4.5	3.5	4.5	2.5	63	747	740	347	334	282	326	401
21	5.3	3.5	4.5	3.8	61	820	740	338	107	282	318	401
22	4.9	3.8	4.5	3.8	57	812	754	481	390	264	304	401
23	4.9	3.8	4.9	3.8	51	656	842	487	440	241	300	406
24	4.9	3.8	5.3	3.8	47	733	898	499	440	246	300	406
25	4.9	3.8	4.9	4.0	47	768	890	531	440	250	228	406
26	7.7	4.0	3.5	4.2	38	726	842	550	428	264	177	401
27	19	4.0	3.8	4.5	25	719	820	544	463	170	148	401
28	19	4.2	3.8	4.5	24	740	805	538	475	272	118	406
29	19	4.0	4.0		24	691	719	246	385	175	118	390
30	18	4.0	4.0		24	628	768	307	355	228	118	418
31		4.0	4.0		24		798		290	181		428
TOTAL												
Sec. Ft.	234.6	251.7	130.7	107.2	1140.5	27894	20612	17013	11252	8650	8189	9644
Ac. Ft.	465	499	259	213	2260	55330	40880	33740	22320	17160	16240	19130

THE YEAR 208500 Ac. Ft.

Daily discharges are from gaging station officially designated, Arkansas River below John Martin Reservoir, Colorado.

APPENDIX "D-8"

* * * *

DEMANDS BY COLORADO FOR WATER

DEMANDS BY COLORADO FOR WATER

Report Year Ending October 31, 1950

DAY	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.
1	0	15	0	0	0	500	470	465	470	250	175	125
2	0	15	0	0	0	700	470	470	370	230	210	140
3	0	20	0	0	0	700	460	470	120	205	225	145
4	0	25	0	0	0	700	460	470	150	200	225	145
5	0	25	0	0	0	700	460	500	175	200	290	145
6	0	25	0	0	0	700	420	500	300	45	375	145
7	0	25	0	0	0	700	430	500	350	280	410	145
8	0	10	0	0	25	700	410	500	350	435	445	130
9	0	0	0	0	50	660	430	470	335	190	130	200
10	0	0	0	0	50	700	430	475	385	350	380	270
11	0	0	0	0	50	635	430	450	385	375	415	300
12	0	0	0	0	50	600	435	475	365	430	425	300
13	0	0	0	0	50	600	435	500	385	450	425	325
14	0	0	0	0	50	575	435	495	385	475	420	390
15	0	0	0	0	50	575	430	490	385	490	410	440
16	0	0	0	0	55	575	440	490	400	490	0	440
17	0	0	0	0	60	530	450	490	450	385	70	440
18	0	0	0	0	60	570	450	490	450	245	300	430
19	0	0	0	0	60	570	450	495	430	245	325	415
20	0	0	0	0	60	570	450	265	285	245	325	415
21	0	0	0	0	60	575	450	345	120	245	325	415
22	0	0	0	0	60	575	450	450	380	245	310	415
23	0	0	0	0	55	575	450	450	420	245	300	415
24	0	0	0	0	50	560	500	470	430	245	300	415
25	0	0	0	0	50	560	485	490	435	245	220	400
26	5	0	0	0	35	485	465	510	435	260	175	390
27	15	0	0	0	25	485	465	520	445	170	145	390
28	15	0	0	0	25	485	470	520	445	240	125	390
29	15	0	0		25	475	470	190	400	170	125	390
30	15	0	0		25	475	465	345	350	200	125	405
31		0	0		25		465		285	175		415
TOTAL Sec. Ft.	65	160	0	0	1105	17810	13980	13750	11070	8655	8130	9925
Ac. Ft.	130	315	0	0	2190	35325	27730	27275	21955	17165	16125	19685

THE YEAR 167895 Ac. Ft.

APPENDIX "D-9"

* * * *

DEMANDS BY KANSAS FOR WATER

DEMANDS BY KANSAS FOR WATER

Report Year Ending October 31, 1950

DAY	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.
1	0	0	0	0	0	500	300	300	0	0	0	0
2	0	0	0	0	0	500	300	300	0	0	0	0
3	0	0	0	0	0	500	300	250	0	0	0	0
4	0	0	0	0	0	500	300	250	0	0	0	0
5	0	0	0	0	0	500	300	0	0	0	0	0
6	0	0	0	0	0	500	300	0	0	0	0	0
7	0	0	0	0	0	500	300	0	0	0	0	0
8	0	0	0	0	0	500	300	0	0	0	0	0
9	0	0	0	0	0	500	300	300	0	0	0	0
10	0	0	0	0	0	500	300	300	0	0	0	0
11	0	0	0	0	0	500	300	300	0	0	0	0
12	0	0	0	0	0	500	300	300	0	0	0	0
13	0	0	0	0	0	500	300	300	0	0	0	0
14	0	0	0	0	0	500	300	300	0	0	0	0
15	0	0	0	0	0	500	300	300	0	0	0	0
16	0	0	0	0	0	500	300	300	0	0	0	0
17	0	0	0	0	0	400	300	300	0	0	0	0
18	0	0	0	0	0	400	300	300	0	0	0	0
19	0	0	0	0	0	400	300	300	0	0	0	0
20	0	0	0	0	0	400	300	300	0	0	0	0
21	0	0	0	0	0	400	400	0	0	0	0	0
22	0	0	0	0	0	400	400	0	0	0	0	0
23	0	0	0	0	0	400	400	0	0	0	0	0
24	0	0	0	0	0	400	400	0	0	0	0	0
25	0	0	0	0	0	400	400	0	0	0	0	0
26	0	0	0	0	0	400	400	0	0	0	0	0
27	0	0	0	0	0	400	400	0	0	0	0	0
28	0	0	0	0	0	300	400	0	0	0	0	0
29	0	0	0	0	0	300	400	0	0	0	0	0
30	0	0	0	0	0	300	400	0	0	0	0	0
31	0	0	0	0	0	300	400	0	0	0	0	0
TOTAL Sec. Ft.	0	0	0	0	0	13200	10600	4400	0	0	0	0
Ac. Ft.	0	0	0	0	0	26180	21020	8730	0	0	0	0

THE YEAR 55930 Ac. Ft.

APPENDIX "D-10"

* * * *

STATE LINE FLOWS ON DAYS OF KANSAS DEMAND*

STATE LINE FLOWS ON DAYS OF KANSAS DEMAND*

Report Year Ending October 31, 1950
U S G S Records—Preliminary, Subject to Revision

DAY	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.
1							338.2	450.1				
2							314	418				
3							311	349				
4						500	302	363				
5						497.6	345.5	313				
6						510.5	343.2	232				
7						522.6	279	183				
8						543.8	249					
9						527	232					
10						549	211					
11						531	198					
12						529.8	222	547				
13						513	201	226				
14						549	214	205				
15						557	201	229				
16						577.9	199	260				
17						503.2	186	265				
18						395	208	263				
19						318.7	237	278.4				
20						305	238	442				
21						345	325	2774				
22						359	367	530				
23						362	334					
24						322	352					
25						309	403					
26						338	468.7					
27						388.2	420					
28						397	448					
29						378.1	629					
30						387.2	552					
31							409					
TOTAL						12015.6	9736.6	8327.5				
Sec. Ft.						23790	19330	16490				
Ac. Ft.												

THE YEAR 59610 Ac. Ft.

* Three days time is allowed for water in transit.

APPENDIX "D-11"

* * * *

DIVERSIONS BY DITCHES IN COLORADO WATER DISTRICTS 14 AND 17

Report Year Ending October 31, 1950
(Acre Feet)
Source of Information, A.V.D.A. Reports—Reservoir Water is That from Upstream Reservoirs above Pueblo

	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	THE YEAR
Bessemer (River)	4,746	2,803	192	3,679	4,094	4,245	4,975	14,402	8,021	4,365	343	4,366	56,231
Res. or Imported	0	0	0	0	0	228	714	0	0	1,726	179	0	2,847
Total	4,746	2,803	192	3,679	4,094	4,473	5,689	14,402	8,021	6,091	522	4,366	59,078
West Pueblo (River)	2	0	0	0	87	179	184	244	184	184	179	184	1,427
Booth (River)	873	639	79	803	1,107	1,071	1,107	1,071	942	833	383	553	9,461
Excelsior (River)	153	182	538	264	0	0	133	510	601	0	83	0	2,464
Res. or Imported	0	0	0	0	0	8	141	0	127	280	121	0	677
Total	153	182	538	264	0	8	274	510	728	280	204	0	3,141
Colorado Canal (River)	0	5,355	4,475	1,079	0	0	0	1,206	7,692	0	0	0	19,807
Res. or Imported	0	0	0	0	1,081	5,520	6,167	10,334	7,339	7,194	6,484	0	44,119
Total	0	5,355	4,475	1,079	1,081	5,520	6,167	11,540	15,031	7,194	6,484	0	63,926
High Line (River)	5,030	4,687	5,276	4,389	3,505	3,392	4,245	12,276	10,524	3,868	6,365	3,505	67,062
Res. or Imported	0	0	0	0	0	0	0	0	0	2,138	22	0	2,160
Total	5,030	4,687	5,276	4,389	3,505	3,392	4,245	12,276	10,524	6,006	6,387	3,505	69,222

(Continued Next Page)

APPENDIX "D-11"
(Continued)

DIVERSIONS BY DITCHES IN COLORADO WATER DISTRICTS 14 AND 17

	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	THE YEAR
Oxford (River)	3,047	1,952	1,486	2,305	805	811	3,100	6,555	6,238	1,436	2,394	815	30,944
Otero (River)	0	690	1,115	111	0	0	0	1,129	1,428	0	805	0	5,278
Res. or Imported	0	0	0	0	0	780	2,340	910	1,339	1,091	0	0	6,460
Total	0	690	1,115	111	0	780	2,340	2,039	2,767	1,091	805	0	11,738
Catlin (River)	9,086	5,395	3,185	7,240	6,262	1,978	10,334	14,352	12,962	3,124	5,111	1,038	80,067
Res. or Imported	0	0	0	0	0	0	0	0	0	1,950	44	543	2,537
Total	9,086	5,395	3,185	7,240	6,262	1,978	10,334	14,352	12,962	5,074	5,155	1,581	82,604
Holbrook (River)	0	2,198	4,215	1,035	0	0	283	7,452	6,780	0	1,039	0	23,002
Rocky Ford (River)	4,883	2,104	1,299	2,785	4,651	5,455	5,766	5,730	5,401	5,877	3,281	4,102	51,334
Ft. Lyon Storage (River)	0	736	0	0	0	0	0	996	3,995	0	805	0	6,532
Ft. Lyon Canal (River)	25,117	15,330	13,018	11,532	8,918	8,751	17,623	42,246	41,732	10,179	15,473	8,936	218,855
Las Animal Consol. River	2,904	1,121	20	288	742	1,137	2,765	4,602	4,169	1,847	2,938	1,373	23,906
Las Animas Town (Riv.)	845	220	0	0	268	1,634	1,432	1,503	1,732	1,589	1,172	922	11,317
TOTAL													
River	56,686	43,412	34,898	35,510	30,439	28,653	51,947	114,274	112,401	33,302	40,371	25,794	607,687
Res. or Imported	0	0	0	0	1,081	6,536	9,362	11,244	8,805	14,379	6,850	543	58,800
	56,686	43,412	34,898	35,510	31,520	35,189	61,309	125,518	121,206	47,681	47,221	26,337	666,487

APPENDIX "D-12"

* * * *

DIVERSIONS BY DITCHES IN COLORADO WATER DISTRICT 67

Report Year Ending October 31, 1950
(Acre Feet)
Source of Information, A.V.D.A. Reports

	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	THE YEAR
Ft. Bent Canal	522	446	194	0	117	4,883	3,570	4,017	2,253	3,285	1,928	3,035	24,250
Keesee Ditch	242	123	0	0	133	748	787	601	801	577	454	627	5,093
Amity Canal	145	0	0	0	0	20,225	18,454	18,625	16,949	12,139	11,754	13,982	112,273
Lamar Canal	1,817	619	0	0	2,085	6,964	5,585	6,657	4,340	4,407	4,967	3,096	40,537
Hyde Ditch	119	123	67	0	48	292	188	248	307	331	232	123	2,078
Manvel Canal	0	0	0	0	109	825	680	639	139	268	403	24	3,087
X. Y. & Graham Canal	0	0	0	0	0	1,597	1,567	1,150	40	910	1,448	793	7,505
Buffalo Canal	1,071	286	0	0	50	2,319	2,271	1,997	690	2,184	1,496	1,428	13,792
TOTAL	3,916	1,597	261	0	2,542	37,853	33,102	33,934	25,519	24,101	22,682	23,108	208,615

APPENDIX "D-13"

* * * *

DIVERSIONS BY DITCHES IN KANSAS

Report Year Ending October 31, 1950
(Acre Feet)
Division of Water Resources Records

Ditch or Canal	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	THE YEAR
Frontier Ditch	59	0	0	138	512	2,134	2,040	1,557	727	984	1,470	1,284	10,905
Alamo Canal	13	0	0	30	110	607	438	397	103	0	0	0	1,698
Ft. Aubrey Canal	34	0	0	82	303	839	1,862	1,315	52	0	0	911	5,398
Total Stateline to Syracuse	106	0	0	250	925	3,580	4,340	3,269	882	984	1,470	2,195	18,001
Amazon Canal	0	0	0	0	2,432	3,187	1,676	3,894	1,180	0	861	676	13,906
South Side Ditch	0	0	0	827	645	3,300	2,057	3,207	0	0	2,297	2,805	15,138
Great Eastern Canal	0	0	0	3,350	607	4,729	4,935	4,104	8,838	0	0	897	27,460
Farmers Ditch	674	63	0	1,660	1,620	3,076	3,890	1,900	0	0	819	557	14,259
Garden City Canal	520	119	155	26	460	1,160	1,260	912	656	0	175	0	5,443
Total Syracuse to Garden City	1,194	182	155	5,863	5,764	15,452	13,818	14,017	10,674	0	4,152	4,935	76,206
Total Stateline to Garden City	1,300	182	155	6,113	6,689	19,032	18,158	17,286	11,556	984	5,622	7,130	94,207

APPENDIX "E"

* * * *

ARKANSAS-WHITE-RED BASINS INTER-AGENCY COMMITTEE CORRESPONDENCE

* * * *

September 22, 1950.

Colonel Louis W. Prentiss, C.E., Chairman,
Arkansas-White-Red Basins Inter-Agency Committee
c/o Division Engineer, Southwestern Division Corps of Engineers
1114 Commerce Street,
Dallas 2, Texas

My dear Colonel Prentiss:

Pursuant to your notice of joint public hearings in connection with the development of comprehensive, integrated plans of improvement for the Arkansas, White and Red River Basins, I submit on behalf of the Arkansas River Compact Administration the following statement for the consideration of your Committee. I am planning to attend the hearings pertaining to the Arkansas River which are scheduled to be held at Dodge City, Kansas, October 3; Pueblo, Colorado, October 5, and Little Rock, Arkansas, November 1 and 2, 1950, but in the event I am unable to appear in person, I would appreciate it if you would have this statement placed upon the official records of those hearings.

The primary interest of the Arkansas River Compact Administration in the development of the Arkansas River basin stems from Article IV-D of the Arkansas River Compact (Public Law 82, 81st Congress, 1st Session, approved May 31, 1949) which reads as follows:

> "This Compact is not intended to impede or prevent future beneficial development of the Arkansas River basin in Colorado and Kansas by Federal or State agencies, by private enterprise, or by combinations thereof, which may involve construction of dams, reservoirs, and other works for the purposes of water utilization and control, as well as the improved or prolonged functioning of existing works: Provided, that the waters of the Arkansas River as defined in Article III, shall not be materially depleted in usable quantity or availability for use to the water users in Colorado and Kansas under this Compact by such future development or construction."

In connection with the above provision of the Arkansas River Compact, your attention is invited to the following explanatory statement which is contained in my report, as Representative of the United States, to the Congress, April 6, 1949, which appears in the printed Congressional documents covering the committee hearings in the United States Senate and House of Representatives in the 81st Congress, 1st

Session, on bills then under consideration to grant the consent of the United States to the Arkansas River Compact:

> "The above language was evolved from extensive consultation with the affected Federal agencies. It is intended to leave the door open—as it should be—for beneficial development of the Arkansas River basin in Colorado and Kansas by any and all proper ways and means. But such development, whatever form it may take, must fit into the framework of the proposed compact; it must not disrupt the relationships and rights established thereunder and must not affect adversely the interests of the States and their water users under the compact. Without such safeguards, the interstate controversy would soon be revived and the proposed compact would be wasted effort.
>
> "It is to be presumed that Federal agencies will respect the above provisions as a matter of course in their development plans for the Arkansas River basin. It is also presumed by the compact negotiators that when such plans are submitted to the Governors of the affected States, pursuant to the provisions of the Flood Control Act of December 22, 1944, the Governors of Colorado and Kansas will be especially mindful of the protective provisions of Article IV-D in formulating their official views and recommendations."

I believe that the language of the Compact and the supplementary statement quoted above are self-explanatory. I trust that they will receive appropriate consideration by your Committee in making studies and formulating plans for the comprehensive development of the Arkansas River basin in Colorado and Kansas insofar as such development may affect the Arkansas River Compact. The Arkansas River Compact Administration is not presently advocating to you the adoption of any specific project or program, but the Administration does favor, as a matter of general principle, the adoption of any project or program either below or above John Martin Reservoir which would serve, within the framework of the Compact, to increase the usable quantity or availability of water to the water users in Colorado and Kansas.

As and when the report of your Committee approaches draft stage, or at any other time that you may find appropriate, it might be mutually helpful if an opportunity were afforded me to review and comment on it informally in the light of the Arkansas River Compact. If deemed advisable, I would be glad to confer with any of your subcommittees or staff as your studies with respect to the Arkansas River basin progress.

Respectfully yours,

HANS KRAMER

Chairman and Representative of the United States
Arkansas River Compact Administration

2 October 1950

Brig. Gen. Hans Kramer, USA, Ret. Chairman
Arkansas River Compact Administration
220 Bush Street
San Francisco, California

My dear General Kramer:

Receipt is acknowledged of your letter of 22 September 1950 in which you inclosed a statement for consideration of the Arkansas-White-Red Basins Inter-Agency Committee. It is sincerely hoped that you can attend the hearings pertaining to the Arkansas River but if not you may be assured that your statement will be placed upon the official records of the hearings.

The matter of interstate rights and problems is of primary concern to the Inter-Agency Committee and the first task assigned the Hydrologic Subcommittee created at the initial meeting of the Committee was to prepare a report on availability of water at state boundaries and the jurisdictional rights and problems of the several states with respect to these waters. Every effort has been made to have the states participate in this study, particularly with regard to the jurisdictional aspects of the report.

The Governor of Colorado has appointed Mr. Clifford H. Stone as the coordinator of that state's activities on the Inter-Agency Committee and Mr. George S. Knapp has been acting in the same capacity for the State of Kansas. With their intimate knowledge of the problems as members of the Arkansas River Compact Administration they will be in an excellent position to safeguard the rights established by the compact. Mr. R. V. Smhra of Kansas and Mr. R. M. Gildersleeve of Colorado who are also familiar with the provisions of the compact are participating in the Hydrologic Subcommittee report mentioned above.

Your willingness to review the report and to confer with subcommittees and staff members is appreciated and will be brought to the attention of the Committee.

Sincerely yours,

s/Louis W. Prentiss
LOUIS W. PRENTISS
Colonel, CE, U. S. Army
Chairman, Arkansas-White-Red Basins
Inter-Agency Committee