Eighth

Annual Report

ARKANSAS RIVER COMPACT ADMINISTRATION

(1956)

For the Report-Year November 1, 1955 to October 31, 1956

LAMAR, COLORADO

December 11, 1956

THE ADMINISTRATION

HANS KRAMER, Chairman and Representative of the United States HARRY C. NEVIUS, Secretary and Treasurer

Ivan C. Crawford, Harry B. Mendenhall and Harry C. Nevius for Colorado

WILLIAM E. LEAVITT, R. V. SMRHA AND ROLAND H. TATE for Kansas

* * *

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Annual Report of ARKANSAS RIVER COMPACT ADMINISTRATION (1956)

Report-Year November 1, 1955 to October 31, 1956

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

Sirs:

Pursuant to Article VIII of the Arkansas River Compact, the Arkansas River Compact Administration submits its report for the report-year November 1, 1955, through October 31, 1956 as follows:

1. Members of the Administration

Representative of the United States: Hans Kramer (Brig. General U.S.A.—Ret.)

Colorado Representatives:

Ivan C. Crawford, Denver, Colorado Harry B. Mendenhall, Rocky Ford, Colorado

Harry C. Nevius, Lamar, Colorado

Kansas Representatives:

William E. Leavitt, Garden City Kansas R. V. Smrha, Topeka, Kansas Roland H. Tate, Garden City, Kansas

2. Officers of the Administration

Chairman: Hans Kramer (Brig. General U.S.A.—Ret.) Vice-Chairman: Roland H. Tate of Garden City, Kansas

Secretary: Harry C. Nevius of Lamar, Colorado Treasurer: Harry C. Nevius of Lamar, Colorado

3. Standing Committees

Administrative and Legal Committee:

Roland H. Tate of Kansas (Chairman) and

Harry C. Nevius of Colorado

Engineering Committee:

R. V. Smrha of Kansas (Chairman) and Ivan C. Crawford of Colorado

Operations Committee:

Harry B. Mendenhall of Colorado (Chairman) and

William E. Leavitt of Kansas

Hans Kramer, Representative of the United States is ex-officio member, of all standing committees.

4. Meetings

Annual Meeting Lamar, Colorado December 13, 1955 Denver, Colorado Regular Meeting March 27, 1956 (Postponed—No Quorum)

	July 15 July 15 August August	7, 1956 Colo. Springs, Colo. Regular M Telephonic Telephonic Telep	Meeting Meeting Meeting
5. Ft		r 26, 1956 Denver, Colorado Special Me	eeting
(a (b	Call au	c on hand October 31, 1955, Auditor's Report thorized October 28, 1955 \$2,400.00 plorado 60% December 16, 1955\$1,440.00 plorado 60% December 31, 1955 960.00	\$1,251.63
			2,400.00
			\$3,651.63
(c) Vouche	O CLODE!	ements by the Administration—November 1, 31, 1956:	
No.	Dave	Payee and Purpose	
166	12-31-55	Secretary Salary November 53 D	Amount
		Secretary Salary, November & December (less \$4.00 F.I.C.A.)	
167	1-8-56		
168			
169			
170		. Rollins, Allen of Service	68 00
171	3- 8-56	Treasurer of U. S. Deposits by States	1000
172	5 0 70	Peerless Printing Co., Charts	46.00
		1 .1	ALCOHOL: NO. OF THE PARTY OF TH
173		Service & Tolls	
174			16.90
175	4-30-56	C.S. Geological Survey, Cooperative Stream	
176		Gaging Secretary Salary March & April (less \$4.00	346.25
177			196.00
178		Tredsurer of U.S. Deposite by States	4.00
		& Tolls	
179	6-30-56		35.73
180		Mtn. States T. & T. Co., May & June Service	153.75
181		Secretary Salary May & Long (1)	26.40
192		54.00 F.I.C.A.)	196.00
182 183		Secretary, Stamps 12 00. Mileage 52 00	64.80
184	9- 5-56	Treasurer of C. S. Deposits by States	16.00
	7-70	Bond Rent, Nat. Surety Co., Treasurers	
185		Mtn. States T. & T. Co. July & August	25.00
186		Dervice G Tolls	60.65
187		Schoenith Office Equip. Co., Supplies Secretary's Salary, July & August (less	7.82
100		\$4.00 F.I.C.A.)	106.00
188	10-15-56	Mtn. States T. & T. Co., September Service	196.00

Voucher No.	Date	Payee and Purpose	Amount 62.40
189		Secretary Mileage	98.00
:90		Secretary Salary, September (less \$2.00 F:I.C.A.) Treasurer of U. S. Deposits by States	
.91			
192	10-31-56	& Tolls	16.20
		Secretary Salary, October (less \$2.00 F.I.C.A.)	98.00
193		Treasurer of U. S. Deposits by States	8.00
194		Total Disbursements	\$2,679.90
(d)	Balance	on hand October 31, 1956	\$ 971.73

(e) On October 26, 1956, the Administration approved a budget for the fiscal year July 1, 1957, to June 30, 1958, for transmittal to the Governor of each of the States of Colorado and Kansas in accordance with Article VIII-E (2) of the Compact as follows:

Personal Service		\$1,825.00
Secretary Salary \$1	,200.00	
Secretary Salary	50.00	
Social Security	500.00	
Gage Reports	75.00	
Audit of Accounts		300.00
Capital Outlay		1,675.00
Maintenance and Operation	25.00	1,077.00
Bond	100	
Printing	600.00	
Official Publication	100.00	
Travel	150.00	
Typing and Mailing	200.00	
Investigation and Inspection	150.00	
Telephone and Telegraph	300.00	
Off: Supplies	150.00	
Office Supplies		3,800.00
Estimated Carry-over as of June 30, 1957		800.00
Estimated Carry-over as of Julie 30, 1771		\$3,000,00
Total to be appropriated by Colorado and Kansa	S	1 800 00
T 1		4,000,000
To be appropriated by Kansas (40%)		
** *** · · · · · · · · · · · · · · · ·		\$3,000.00

(f) 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, 1955 through October 31, 1956, 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 and with the Federal agencies in a systematic determination and correlation of the facts as to the flow and diversion of the waters of the Arkansas River and as 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 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 related data. The carrying out of these cooperative studies and activities is assigned, under the By-Laws of the Administration, to the Engineering Committee.

(b) During the period covered by this report, the Administration has had the benefit of excellent cooperation from all agencies referred to in the above provisions of the Compact. The Corps of Engineers has continued to operate John Martin Reservoir in accordance with the provisions of the Compact. The United States Geological Survey has also continued with the operation of the Compact gaging stations and the compilation of hydrologic data presented in this report and utilized in the administration of the Compact. To assist that agency in defraying the costs of operating the radio stage reporting gages and performing other non-routine work required for the administration of the Compact, the Administration entered into cooperative agreements with the Geological Survey for the fiscal years ending June 30, 1956, and June 30, 1957. Under the terms of these agreements, \$500 was provided by the Administration and an equal amount by the Geological Survey for the above described purposes, in each of these fiscal years.

7. Water Supply, Reservoir Operation and Hydrologic Data

The gates controlling John Martin Reservoir outlet were closed at midnight October 31, 1955 with 47,413 acre-feet in storage according to the reservoir capacity table then in use. A revised capacity table dated December 1, 1956, based on sedimentation from the flood of May 1955 reduced this storage amount to 38,218 acre-feet. Water continued to be stored in the reservoir until 8:30 A.M., April 2, 1956 when the peak volume reached 48,363 acre-feet. All reservoir volumes in this report are based on the capacity table of December 1, 1956.

Since the last reservoir resurvey in 1951, the storage capacity of the reservoir is estimated to have been depleted by about 17,000 acrefeet of which about 14,000 acrefeet occurred during the latter half of May 1955. Since the storage of water began in 1943, a total of about 55,000 acrefeet of sediment has accumulated in the reservoir. Of this quantity 96 percent or 53,000 acrefeet has been deposited in the irrigation pool. Sediment has been accumulating at an average rate of about 4,000 acrefeet per year.

Releases from the reservoir for the 1956 water year were as

(1) From 8:30 A.M. April 2nd, an amount of 450 c.f.s. to April 3rd at 3:30 P.M., when the release was increased to 750 c.f.s. and which continued to 9:30 A.M. on April 5th, when it was increased to 850 c.f.s. This rate was maintained until April 11th at 10:00 A.M. when it was increased to 950 c.f.s. A further increase to 975 c.f.s. came at 10:20 A.M. April 15th. This flow was maintained until 4:45 A.M. on the morning of April 30th at which time the reservoir was declared

empty, and the administration of the stream reverted to the State

Engineer of Colorado.

(2) As a result of a flash flood in the Purgatoire on July 17th and a heavy rain in the area on July 19th, the gates of the dam were next closed at noon of the latter date. On the morning of the 20th, 300 c.f.s. were released, and at 2:30 in the afternoon of the 21st, the rate was increased to 500 c.f.s., where it remained until the 24th when it was raised to 700 c.f.s. At 3:00 P.M. on the afternoon of the 30th, the reservoir was declared empty.

(3) Heavy rains in the Lamar area on August 19th resulted in the closing of the gates of the dam. A release in the amount of 300 c.f.s. commenced on August 20th and was increased to 850 c.f.s. on the 21st. This rate continued with slight variations until the 26th when it became 910 c.f.s. On the 31st of August the release was increased to 950 c.f.s. at which figure it continued until September 2nd at 6:30 A.M. when the reservoir became empty, and the administration of the stream

The total releases from the reservoir during the periods April 2nd to April 30th, July 19th to July 31st, and August 19th to September 2nd, amount to 82,585 acre feet. Stateline flow during the corresponding periods, allowing three days for water from the reservoir to reach the

Stateline, amounted to 32,900 acre feet.

River flow was passed through the reservoir averaging 4 c.f.s from November 1, 1955 to April 2, 1956; 296 c.f.s. from April 30, 1956 to July 18, 1956; 190 c.f.s. from August 1, 1956 to August 19, 1956; and 22 c.f.s. from September 3, 1956 to October 31, 1956. Stateline flow for corresponding periods averaged 76 c.f.s, 108 c.f.s., 86 c.f.s. and 42 c.f.s. respectively.

The total discharge for the year at Garden City was 25,850 acre feet. The average discharge was about 36 cubic feet per second. Total diversions by Kansas ditches during the irrigation season amounted to more than 73% of the water which crossed the Stateline from November

1. 1955 to October 31, 1956.

The inflow, outflow and storage at the John Martin Reservoir and Stateline flow for the report-year are shown on Plate I.

Hydrologic data as listed below are presented in Appendix "B":

- B-1. Daily discharges, Arkansas River near Pueblo, Colorado. monthly totals corrected for transmountain water.
- B-2. Daily discharges, Arkansas River at Las Animas, Colorado.
- B-3. Daily discharges Purgatoire River near Las Animas, Colorado.
- B-4. Inflow into John Martin Reservoir.
- B-5. Daily contents, John Martin Reservoir.
- B-6. Outflow from John Martin Reservoir.
- B-7. Daily discharges, Arkansas River at the Colorado-Kansas Stateline.
- B-8. Daily discharges, Arkansas River at Garden City, Kansas.
- B-9. Demands by Colorado for water.
- B-10. Demands by Kansas for water.

B-11. Stateline flows on days of Kansas demand.

B-12. Diversions by ditches in Colorado Water Districts 14 and 17.

B-13. Diversions by ditches in Colorado Water District 67.

B-14. Diversions by ditches in Kansas, Stateline to Garden City.

B-15. Summary tabulation.

8. Gaging Stations:

Stream-flow records of satisfactory accuracy were obtained at all of the Compact gaging stations. However, day to day operations and reporting of river stages were handicapped at times by occasional failure of radio stage reporting equipment. This equipment although modern when installed in 1952 is now obsolete and should be replaced within the next year or two. As commercial power is now available at the gage sites equipment especially designed for operation by battery power will not be required.

No action has been taken on previous recommendations to equip the stations on the Arkansas and Purgatoire Rivers near Las Animas with stage reporting equipment. It seems certain that reservoir operations during summer flash floods could be improved with better information on flood stages at these two stations. Since such floods occur only occasionally the needs could probably be met by the installation of telephonic reporting equipment instead of the more expensive radio transmitters.

The Administration has contributed \$500.00 annually for the past three years to assist the U. S. Geological Survey in operating gaging stations. The Administration believes, however, that the expense of new equipment should continue to be borne by Federal funds in accordance with the intent of Article VIII of the Compact.

9. Findings of Fact by the Administration

(a) On April 21, 1956, the Administration in accordance with Article IV, Section 3 (b) of the By-Laws, considered by telephone the question of finding the Reservoir empty of stored water and giving notice to the State Engineer of Colorado that priority administration would commence on April 27, 1956. As a result of affirmative action taken on the above date the State Engineer of Colorado was notified that, on April 27, 1956, unless a change of conditions justified cancellation or modification of this notice, priority administration would commence, and decreed rights of water users in Colorado would be administered by Colorado under Article V-F of the Compact.

The Reservoir was emptied April 30, 1956 at 4:45 A.M.

(b) On the morning of July 19, 1956, most of the streams in Colorado below John Martin Dam were reported at flood stage. Some water was reported in the Purgatoire and small amounts in the Arkansas River at La Junta. Ditches in Colorado and Kansas were supplied by flood waters. The Administration in accordance with Article IV, Section 3 (b) of the By-Laws considered the question of closing the gates and conserving water. Also the question of notification and return to priority administration by July 21. Affirmative action resulted and the State Engineer of Colorado was notified that there was water in John Martin

Reservoir, and in the Purgatoire river at Las Animas to supply users in Colorado Water District 67 and in Kansas. Also on this same date, notice to the State Engineer was given that unless a change of conditions justified modification or cancellation that commencing on July 21, 1956 Colorado would return to priority administration.

On July 21, because of inflows into the Reservoir, the time was

extended for four (4) days from July 21, 1956 to July 25, 1956.

On July 25, the time was further extended for three (3) days from July 25, 1956 to July 28, 1956.

The Reservoir was empty July 30, 1956 at 3:00 P.M.

(c) Early Sunday, August 19, 1956, heavy rains south of the Arkansas river caused runoff below the dam and storage was evident at John Martin Reservoir when the gates were closed at 6:00 A.M.

The Administration in accordance with Article IV, Section 3 (b) of the By-Laws determined that there was in John Martin Reservoir and in the Purgatoire River water available August 19, 1956 for release to water users in Kansas and Colorado Water District 67 as provided in the Compact and notice was given the State Engineer of Colorado to this effect, as provided in Article V-F of the Compact.

(d) On August 27, 1956, the Administration in accordance with Article IV, Section (b) of the By-Laws, decided that at the current rate of release, the State Engineer of Colorado should be notified that the Reservoir would soon be empty. So, on this date the State Engineer of Colorado was notified that on August 31, 1956, unless a change of conditions justified cancellation or modification of that notice, priority administration would commence, and decreed rights of water users in Colorado would be administered by Colorado under Article V-F of the Compact.

The Reservoir was emptied September 2, 1956 at 6:30 A.M.

The above Findings and Notifications were in form similar to those published in the Fifth Annual Arkansas River Compact Administration Report of 1953, Appendix "C."

Respectfully submitted,

ARKANSAS RIVER COMPACT ADMINISTRATION

HANS KRAMER,

Chairman and Representative of the United States

Ivan C. Crawford, Harry B. Mendenhall, Harry C. Nevius,

Colorado Members of the Administration

WILLIAM E. LEAVITT, R. V. SMRHA, ROLAND H. TATE,

Kansas Members of the Administration.

Lamar, Colorado December 11, 1956.

APPENDICES

for

Annual Report of the Arkansas River Compact Administration

For the Report-Year November 1, 1955 to October 31, 1956

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 Colorado-Kansas Stateline.

APPENDIX "B-8" — Daily Discharges, Arkansas River at Garden City, Kansas.

APPENDIX "B-9" -Demands by Colorado for Water.

APPENDIX "B-10"-Demands by Kansas for Water.

APPENDIX "B-11"-Stateline Flow on Days of Kansas Demand.

APPENDIX "B-12"—Diversions by Ditches in Colorado Water Districts 14 and 17.

APPENDIX "B-13"—Diversions by Ditches in Colorado Water District 67.

APPENDIX "B-14"—Diversions by Ditches in Kansas, Stateline to Garden City.

APPENDIX "B-15"-Summary Tabulation.

PLATE I—Graphs showing Inflow, Outflow and Storage at John Martin Reservoir and Stateline Flow.

APPENDIX "A"

AUDITOR'S REPORT

ROBERT W. ROLLINS

Certified Public Accountant La Junta, Colorado

December 6, 1956

To the Representatives Arkansas River Compact Administration Lamar, Colorado

Gentlemen:

As requested by you, an examination has been made of the financial transactions of the Arkansas River Compact Administration for its 7th "Report Year"—November 1, 1955 to October 31, 1956. The results of the audit are expressed in the attached statement of cash receipts and disbursements, Schedule I, Page No. 4. The following remarks are offered as additional information and tend to describe the extent of the audit work performed.

General Comments

Schedule I, reflects the beginning balance of cash in bank, revenue assessments received from the States of Colorado and Kansas, expenditures by classification and the ending balance of cash in bank.

As provided for in the budget of the Administration's Meeting of October 26, 1954, and authorized for call in the Minuter of the Meeting of December 13, 1955, funds due from Colorado (60% 'are) of \$1,440.00 and Kansas (40% share) of \$960.00, were received for the budget year ending June 30, 1956 and placed on deposit in the First National Bank in Lamar, Colorado, on the respective dates of December 16, 1955 and December 31, 1955.

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. Amounts so expended were substantiated by verification to payee's statements, authorization of payment as evidenced in minutes of the Compact's meetings, or other supporting evidence.

Consistent with prior years practices, the Secretary's salary for the current year of \$1,200.00 has been reduced by the Old-Age and Survivor's Insurance deductions amounting to \$24.00 or 2% of the gross amount. This \$24.00 figure together with the Administration's contribution of like amount are shown under the classification of taxes on Schedule I.

Travel expense of the Secretary for the fiscal year ending October 31, 1956 amounted to \$115.20 or 1,440 miles at \$0.08 per mile.

Payments made to the U. S. Treasurer totaling \$48.00 during the year were accompanied by related returns referring to Old Age and

Survivor's Insurance information on the Secretary.

Cash in bank at October 31, 1956 per Schedule amounting to \$971.73 was reconciled to the amount directly confirmed by the First National Bank in Lamar, Colorado. A review of the Administration's bank statement at November 24, 1956 shows that all outstanding checks listed on Schedule I, with the exception of check No. 194 for \$8.00 to the Treasurer of the U. S., had cleared the bank at that date.

The following summary compares the Administration's financial

position at October 31, 1956 with that of a year ago.

ARKANSAS RIVER COMPACT ADMINISTRATION Lamar, Colorado

COMPARATIVE BALANCE SHEET

	Oc	tober 31,	October 31.	Increase
Assets		1956	1955	(Decrease)
Cash in bank Equipment (Portable typewriter)		92.50	\$1,251.63 92.50	\$(279.90) -0-
Total Assets	\$1	,064.23	\$1,344.13	\$(279.90)
CAPITAL				
Unexpended fund balance for equipmen	t	92.50	\$1,251.63 92.50	\$(279.90)
Total Capital	\$1	,064.23	\$1,344.13	\$(279.90)

Because the "Budget Year" covers the period July 1, 1955 to June 30, 1956, it has been necessary to combine related months of the last two "Report Years" in order to compare actual expenditures with related budgeted items. Such a comparison is set forth in the following summary:

Comparison of Disbursements With Budget Budget Year July 1, 1955 to June 30, 1956

Classification	Disbursements	Budget
Personal Services		
Secretary's salary	.\$1,200.00	\$1,200.00
Taxes—O.A. and S.I. Administration's shar	e 26.00*	50.00
Gage reports	. 500.00	500.00
Professional services (audit of accounts)	. 65.00	75.00
Capital Outlay	0-	300.00

MAINTENANCE AND OPERATION

Bond—Treasurer	25.00	25.00
Printing	522.00	600.00
Official publications	-0-	100.00
Travel expense—Secretary	95.50	150.00
Typing and mailing	12.00	200.00
Investigation and inspection	-0-	150.00
Telephone and telegraph	181.58	300.00
Office supplies and repairs	14.39	150.00
Totals	2,641.47	\$3,800.00
=		

^{*} It should be remembered, a year ago, at June 30, 1955, Compact's tax expense was short \$2.00 (\$1,200.00 × 2% equals \$24.00) consequently when adjustment was made, current expenditures are long \$2.00.

The Administration's Budget for the fiscal year July 1, 1956 to June 30, 1957, as approved in the Minutes of the Meeting of October 28, 1955, provided for expenditures totaling \$3,800.00. Of this, \$800.00 is to come from estimated excess of funds at June 30, 1956, supplemented by an appropriation of \$3,000.00 from the States of Colorado and Kansas in the respective amounts of \$1,800.00 and \$1,200.00.

Respectfully submitted, ROBERT W. ROLLINS, Certified Public Accountant.

Arkansas River Compact Administration Lamar, Colorado

STATEMENT OF CASH RECEIPTS AND DISBURSEMENTS November 1, 1955 to October 31, 1956 (Refer to comments in text of audit)

Cash in Bank at November 1, 1955 (- 01 1100		
RECEIPTS			
Revenue from assessments			
Colorado portion 60%		\$1,440.00	
Kansas portion 40%		960.00	2,400.00
Total Available Funds			\$3,651.63
DISBURSEMENTS			
Salary of secretary\$	1.200.00		
Less: O.A. and S.I. deductions	24.00	1,176.00	
Printing—Annual report		522.00	
Telephone and telegraph		204.38	
Travel expense of secretary		115.20	
Audit fee (fiscal year ended			
October 31, 1955)		65.00	
Taxes—O.A. and S.I. payments			
	24.00		
Administration's portion	24.00	48.00	
Premium on secretary-treasurer			
bond		25.00	
Typing and mailing		12.00	
Office supplies, stationery, etc		12.32	
Stream-gaging expense of U.S. Geological Survey		500.00	
		500.00	
Total Disbursements			2,679.90
Cash in Bank at October 31, 1956			\$ 971.73
Cash on Deposit at First National I	SANTE IN	LAMAR	
Per direct confirmation at October	WILLIAM III	THE STATE OF THE S	
31, 1956		\$1,101.93	
Less: Outstanding checks of:		\$1,101.93	
No. 191 Treasurer of U.S	8.00		
	16.20		
No. 193 Harry C. Nevins	98.00		
No. 194 Treasurer of the U.S.	8.00		
Total outstanding checks		130.20	
Adjusted bank balance			\$ 971.73
			9/1./3

APPENDIX "B-1"

* * * *

ARKANSAS RIVER NEAR PUEBLO, COLORADO

		100	4 4 4 7	0.00	MAD ADD	ADD	MAV	ILINE	THE	AUG.	SEPT.	OCT.
DAY	NOV.	DEC.	JAN.	FED.	MAK.	WY W.	TATE OF	a f	1	0000	6.4.4	230
_	234	261	268	200	198	30	477	2290	647	3890	001	226
	140	223	247	195	204	34	416	2910	869	1090	143	007
40	000	247	235	190	209	66	433	3950	999	946	142	303
0.5	140	267	229	210	175	06	433	3740	851	849	124	133
1 11	001	27.4	220	300	153	62	503	3260	851	724	116	111
-	116	100	217	367	142	110	586	3170	850	989	116	10
10	113	0.40	216	300	153	130	477	2870	664	619	108	165
- 0	113	300	217	474	142	94	595	2450	778	581	56	165
000	1001	303	211	361	127	52	662	2410	789	446	800	144
7	100	200	108	2 10	137	00	672	2370	768	381	124	149
0 ,	1104	107	100	200	148	26	703	2310	627	305	116	144
- (71.	211	100	345	253	30	577	2250	637	390	77	138
70	134	27.5	187	183	214	28	558	2210	647	285	5.1	115
7	1 2	170	001	000	243	3.0	5777	2130	707	124	46	91
4 1	400	707	1001	2000	264	295	672	2070	999	75	39	82
2	207	067	1001	300	326	108	200	1990	677	883	37	89
9	363	281	100	200	007	174	458	1890	677	93	36	82
7	348	877	101	10	100	000	415	1850	464	131	30	72
8	349	240	219	230	7/1	077	410	1110	437	114	4	76
6	347	246	253	242	101	240	100	1/10	184	171	0.0	7 0
0	275	204	274	237	135	240	932	1650	600	571	100	0 0
-	222	210	294	224	117	228	1270	1540	332	087	200	10
,	204	204	294	224	1117	197	1550	1320	317	218	0	0 1
100	200	204	286	231	110	197	2130	1110	356	156	79	C 1
A	209	210	280	240	68	550	2210	1080	303	124	0 1	0 0
v	215	216	265	228	89	521	2330	066	277	112	7/	16
200	203	198	237	210	06	513	2210	830	232	100	111	2.
7	200	170	253	204	103	459	2310	914	207	105	877	11.
0	233	164	295	186	107	468	2130	937	173	06	209	113
000	274	181	310	192	84	513	1710	810	238	16	204	171
10	27.4	747	200		49	522	2050	727	750	118	217	123
		241	190		34		2210		871	121		171
TOTAL										2 4	0000	1000
1	6151	7810	7232	8108	4643	6413	33316	59738	17901	13539	7967	380
100	12200	14900	14340	16080	9210	12720	66080	118500	35510	26850	5870	7350
10, 11.	00771	0	0	0	190	4910	4480	10730	11400	8960	1200	1270
(a) dC.	12200	14000	14340	16080	9020	7810.	61600	107770		17890		6080
(D) ac. 10	Tour met	bac morreson months on the	pue mom	to man and	transcompanion water	1		THE YE	AR 339.6	10 Acre	Foot	

APPENDIX "B-2"

* * * *

ARKANSAS RIVER AT LAS ANIMAS, COLORADO

2 4 4 5		-	1				control of the subject	ct to revision	Rion				
D.W.	NOV.	DEC.	JAN.	FEB.	MAR	APR.	L. MAY		JUNE IU	IULY	AUG.	SEPT	OCT
1	6.5	9.2	11	20	17	22		1			101		
7	9.5	9.2	12	23	17	21					10	11	7.
m	96	0 %	16	200	4 -	7 1					9.2	9.5	2
4	200	000	0 .	170	(7	2.7					23	77	2
- 4	0.0	07.	11	57	14	17				1.5	13		10
- 1	21.	10	9.6	31	13	11					20	0.0	ic
0	10	8.6	9.5	32	15	10					0.0	6.0	7
7	01	8.9	9.6	3.4	20	17	7.0				7.7	5.9	is
00	9.2	16	000	25	1 2	1 1					1.9	6.4	33
6	8.6	17	0.0	200	10	4 1					6.4	7.4	33
0	00	10	3.01	000	11	1/					6.5	6.9	2
-	0.0	15	07.	57	0.0	23					5.6	2	4
	7.0	17	07	3.2	11	22					3 6	2. 2.	
1 0	0.0	4 .	10	39	16	22					2. 2		-
	0.0	17	10	45	23	22					* *	10	-
+ 1	0.0	18	10	89	19	22						4.5	4
^	8.5	15	9.2	61	30	36					+	4.7	4
9	8.6	15	7.0	52	10	16					1.0	2.9	3.0
7	7.5	13	9.2	08	20	10					6.4	2.6	3.2
00	8.9	17	17	0 8	- 10	31					5.9	1.6	3.2
61	9.6	25	23	0 0	17	17					40	2.2	3.2
(17.	71	2 10	0 0	01	77					16	2.8	3
21	1 2	27	3)	0 0	18	22					61	3.0	25
	2 7	200	00	48	20	20					23	3.3	
	7.	1 2	6	33	1.7	14					16	4	2 6
	+ 7	12	4.5	24	14	12					13		
	† -	71	22	22	12	12			75		13	0 00	2.4
	11	11	24	22	9.5	1.2					1 1	0,4	0.7
0.	0.0	10	20	22	8.6	10	46	482	•		11	0.0	0.1
	8.9	10	17	20	96	0 0					1	8.7	0.0
	8.6	11	17	20	21	10.1			4.		01	5.9	5.2
•	7.5	12	10	10	10	0					9.5	3.0	5.1
	000	1.5	, ,	17	200	71					11	2.9	5.4
		1 -	3 4 6		670	11					11	2.8	7.9
TOTAL		11	07		57		489		7		12		10
sec. ft.	296.9	418.8	561.2	988	563.0	508.2	3.441.8	13 200	9 074 0		7107	0 000	
. It.	289	000	-		130				4,714		7.7	139.8	5

APPENDIX "B-3"

PURGATOIRE RIVER NEAR LAS ANIMAS, COLORADO

PURGATOIRE RIVER NEAR LAS ANIMAS, COLORADO Report Year ending October 31, 1956 11 S. S. Records... Provisional, subject to revision

	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	000
-	<i>b</i> -	1 %	10	4	15	1.5	1.5	2.5	0.9	10	14	-
	15.	5	000	00	11	6.	9.9	5.0	58	820	0.9	-
4 0	2.0	14	3.2	100	9.9	0.6	0.9	1.0	284	266	8.4	-
0 4	o i c	14	25	3.2	5.0	7.8	2.5	2.5	184	1,070	4.0	1.6
+ 4	ic	14	17	2.9	4.0	3.5	1.5	1.0	3.1	340	4.0	-
,	ic	4.	12	5.6	3.5	1.5	6.	3.0	18	96	3.8	-
10	ic	· ir	0	0	20	2.5	6.	5.0	62	28	3.6	-
- 0	iv	25	20.25	0.0	18	1.0	1.	3.5	16	8.6	4.6	
00	0.0	16	2.4	0.0	16	1.5	5.	2.5	9.9	4.7	3.2	-
200	ic	17	2.0	00	16	1.0	4.	1.2	9.9	4.4	3.0	
0 -	ic	00	ir	3.0	16	1.5	3.0	14	0.9	4.4	2.8	_
	3:0	10	9 9	4.0	2.1	6	6	16	9.9	4.2	2.6	
1 1	Cir	10	ir.	5.0	25	6.	1.0	0.9	0.9	4.0	2.0	2
0 4	0 0	10	99	6.7	29	3.5	1.0	5.0	5.5	3.6	4.01	7
t u	11.	10	200	7.0	25	11	80	9.9	2.1	3.5	2.4	CI
. 4	000	30	800	7.0	23	5.5	7	0.9	10	3.6	2.4	2
10	000	20	00	7.0	2.1	2.0	7.	3.5	9.6	3.6	2.4	7
- 00	ir	20	8.9	7.0	20	4.0	6.	2.5	146	826	2.4	1
00	24.	20	6.7	10	0.6	2.0	7.	1.5	1,260	6,160	2.4	7
	- 1	10	6.7	-	5.5	1.5	00	1.5	1,060	046	2.4	7
- 0	0	o c	6.5	82	11	1.5	00	6.	982	674	2.4	7
10	0.0	17	4 9	75	3.0	2.0	6	00	592	425	3.2	2
4 00	15.0	12	6.3	54	3.0	1.5	2.0	1.0	2,920	300	2.00	7
4	4.0	10	6.1	35	3.0	1.5	923	00	293	270	3.5	-
1	0.0	13	6.1	29	3.0	1.5	517	00	96	246	4.7	
×	11.0	111	0.9	33	2.5	1.5	113	0.	13	235	1.7	-
7		11	0.9	30	3.0	1.5	200	1,010	7.0	372	1.7	-
00	14	12	25	18	2.5	1.0	300	64	3.00	160	1.7	-
00	16	12	5.0	17	3.0	6.	19	64	5.2	92	1.6	hood .
200	91	11	4.5		2.5	00	10	- 61	6.3	46	1.6	-
.1	2	13	4		2.0		4.0		11	56		
FOTAL			1	0 00	+ 07 6		1111		1111		£ 90	2.6
sec. ft.	204.1	491	283.7	4000	346.1	10.1	1,/1/./	0.202.1	16 130	20000	101	113
ic. ft.	405	974	563	970	0690		3,410		10,130		121	411

APPENDIX "B-4"

* * * *

INFLOW INTO JOHN MARTIN RESERVOIR

DAY NOV. 1	DEC.										
		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.
	- 24	30	24	3.2	24	12	464			25	4
	24	40	27	28	22	16	427	352	829	15	4
	23	48	30	22	36	15	435	424	589	12	4
	24	36	32	19	25	12	562	430	1 080	11	4
	24	27	34	17	14	11	595	257	350	10	. 10
	23	21	35	18	12	10	348	248	105	10	. 15
	24	19	36	49	20	10	335	188	36	10	. 6
	31	14	27	51	1.5	12	326	116	15	11	. 15
	33	14	25	33	18	12	264	87	11	10	1
	27	15	25	26	24	10	564	82	10	0	9
	33	16	35	27	24	14	475	57	10	00	0 0
	33	17	43	37	23	18	456	46	10	00	0 0
	40	16	50	48	23	18	428	32	0	7	9
	37	17	75	48	26	30	466	30	0	. [10
	34	16	68	5.5	37	21	461	42	0	15	
	3.5	14	65	58	22	18	392	23	00	tr	to to
	23	16	5.2	41	1+	23	514	25	10	4	1
	37	24	5.2	37	2.5	33	470	161	016	·	w
	45	30	58	2.5	24	23	462	1.290	6 450	·	4
	3.2	42	79	24	24	18	448	1.080	1.010	5	2
	31	99	130	3.1	22	12	435	1,000	697	· V	2
	42	51	110	20	16	10	469	610	441	10	D Re
23 29	31	48	78	17	14	460	588	3.620	5.	. 4	11
	27	28	57	15	14	1.770	574	368	282	7	1
	24	30	51	1.2	13	649	518	109	257	0	- 00
	21	26	5.2	11	12	159	483	22	246	4	10
	21	23	20	13	11	113	1.540	14	382	· Ir	1
	23	22	38	2.4	1.1	418	330	11	169	i.	1
	24	24	36	22	13	297	504	1	103	4	1
24	23	26		26	1.2	444	229	13	6.5	4	10
TOTAL	24	30		27		493		19	38		12
sec. ft. 503	910	846	1,477	913	590		14.562	11 118	14 465	226	001
966		089,1	2,930	1,810	1,170	10.240	28,880	22.050	28.690	468	173
							THE YE	YEAR 101 0		Poot	0.00

INFLOW INTO JOHN MARTIN RESERVOIR

APPENDIX "B-5"

* * * *

CONTENTS OF JOHN MARTIN RESERVOIR

CONTENTS OF JOHN MARTIN RESERVOIR
Report-Year ending October 31, 1956
Corps of Engineer records—Provisional, subject to revision
(Midnight contents in Acre Feet from capacity table dated December 1, 1956)

DAY	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.
-	38218	39072	41170	43005	46612	48363	0	0	0	0	654	0
, (387.08	30219	41260	43065	46612	47862	0	0	0	0	0	0
1 6	38247	39248	41320	43125	46673	46704	0	0	0	0	0	0
4	38277	39307	41380	43155	46735	45292	0	0	0	0	0	
u	38277	39307	41440	43215	46796	43880	0	0	0	0	0	_
	38277	39336	41470	43305	46827	42252	0	0	0	0	0	0
10	38365	30305	41531	43485	46827	40660	0	0	0	0	0	0
- 00	38365	39424	41591	43545	46890	39013	0	0	0	0	0	
00	38394	39483	41621	43606	46952	37489	0	0	0	0	0	0
10	38394	39542	41681	43726	47015	35764	0	0	0	0	0	
11	38424	39601	41711	43818	47109	34113	0	0	0	0	0	
13	38424	39660	41741	43941	47172	32200	0	0	0	0	0	
1 6	38424	39718	41802	44033	47235	30329	0	0	0	0	0	
4	38454	39777	41832	44217	47297	28539	0	0	0	0	0	
2	38483	39836	41862	44401	47580	26670	0	0	0	0	0	
10	38483	39954	41892	44524	47673	24788	0	0	0	0	0	
17	38512	40013	41922	44586	47830	23002	0	0	0	0	0	
00	38512	40072	41922	44708	47924	21051	0	0	0	0	0	
0	38542	40131	41952	44954	47987	19126	0	0	758	14196	0	
00	38572	40190	41982	45138	48050	17258	0	0	1063	16497	0	
10	38689	40307	42102	45384	48113	15378	0	0	1110	17191	0	
00	38778	40366	42222	45629	48175	13812	0	0	1129	16414	0	
2 6	38836	40543	42403	45783	48175	11553	0	0	5680	15149	0	
40	3880%	40631	42523	45967	48238	9749	0	0	6019	13735	0	
2	38054	40690	42583	46090	48300	8001	0	0	5340	12228	0	
200	38083	40719	42643	46243	48300	6107	0	0	4385	10608	0	
10	30013	40870	42643	46336	48300	4076	0	0	3257	9606	0	
000	30013	40930	42704	46428	48332	2259	0	0	2280	7553	0	
070	30042	40960	42824	46550	48363	368	0	0	771	6107	0	
070	20042	41020	42884		48363	0	0	0	0	4260	0	
	2000	0000					4		0	0000		

APPENDIX "B-6"

* * * *

OUTFLOW FROM JOHN MARTIN RESERVOIR

DAV DEC. JAN. FEB. MAR. APR. MAY JUNE JULY AUG. SEPT. OCT 1 10 1.1 2.4 4.0 2.7 1.8 10.6 55.3 3.6 10.6 944 11.8 3 1.0 2.1 3.6 2.7 3.7 1.8 10.6 57.9 3.9 6.0 10.6 944 11.8 10.6 57.9 3.9 6.0 10.6 3.9 6.0 10.6 3.9 10.6 10.6 3.9 10.6 10.6 3.9 10.6 10.6 3.9 10.6 10.6 3.9 10.6 10.6 3.9 10.6 10.6 3.9 10.6 10.6 3.9 10.6 10.6 3.9 10.6 10.6 3.9 10.6 10.6 3.9 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10				0	S G S Records-	cords	Records-Provisional, subject to re	, subject	to revision	u			
10 1.1 2.4 4.0 2.7 1.8 1.06 573 3.66 106 944 7.0 1.0 2.1 3.5 2.7 786 498 579 366 106 944 7.0 1.0 2.1 3.5 2.7 774 66 498 579 66 375 366 106 375 366 106 375 366 106 375 366 106 375 366 106 375 366 376 372 106 375 376 466 498 372 106 375 376 466 498 474 408 375 406 468 375 406 474 408 372 406 474 408 474 408 474 408 474 408 474 408 474 408 474 408 474 408 474 474 474 474 474 474	AVC	NOV.	DEC.	JAN.	FEB.	MAR		MAY			AUG.	SEPT.	OCT
7.5 1.0 2.1 3.5 2.7 30.7 99 504 310 255 396 70	1	10	1.1	2.4	4.0	2.7		106	553	366	106	944	18
7.0 1.0 2.1 3.5 2.7 586 84 498 579 670 631 457 774 66 570 631 457 774 66 570 631 457 774 66 570 570 570 3.5 3.5 3.5 2.7 846 49 474 372 166 3.4 770 3.5 3.5 3.5 2.7 846 49 474 372 166 3.4 770 3.5 3.0 3.5 3.5 2.4 846 49 474 372 166 3.4 770 3.5 3.0 2.7 2.7 2.7 2.4 846 34 380 188 49 40 570 655 2.4 2.7 2.7 2.7 2.7 2.4 846 3.2 300 118 49 30 65 5.2 2.7 2.7 2.7 2.4 812 2.8 812 3.0 18 49 80 55 5.0 2.7 2.7 2.7 2.4 910 22 605 605 605 605 605 605 605 605 605 605	7	7.5	1.0	2.1	3.5	2.7	30	66	504	310	252	306	191
7.0	en .	7.0	1.0	2.1	3.5	2.7		84	498	579	492	999	1 91
7.0 1.1 4.0 3.0 2.7 813 56 631 340 408 37 7.0 5.0 3.5 3.5 3.7 846 49 474 372 166 35 7.0 5.0 3.5 3.5 3.6 846 49 474 372 166 35 7.0 3.0 2.7 3.7 2.7 884 49 408 89 36 36 36 30 18 40 36 30 6.8 30 188 40 408 30 6.8 30 6.8 30 18 40 28 6.8 30 18 40 408 82 40 40 30 6.9 30 2.7 30 2.4 97 37 112 32 28 40 40 88 27 6.9 80 24 40 80 80 80 80 80 80	4	7.0	00	2.7	3.0	2.7		99	540	670	631	43	1.0
7.0 5.5 3.5 3.5 2.7 846 49 474 372 166 35 70 3.0 8.6 846 41 360 243 106 34 70 8.5 3.0 8.6 846 41 360 243 106 34 70 8.5 3.0 8.6 846 41 360 243 106 34 70 8.5 3.0 8.7 2.4 872 2.8 300 118 49 80 80 80 80 80 80 80 80 80 80 80 80 80	5	7.0	1.1	4.0	3.0	2.7		26	631	340	408	2 12	15
7.0 5.0 3.5 3.5 3.6 846 41 360 243 106 34 7.0 3.5 3.5 3.5 3.4 846 41 360 243 106 34 6.5 2.7 3.0 2.4 846 41 360 188 66 30 6.5 2.7 2.7 2.7 2.7 2.4 810 22 605 60 30	01	7.0	2.5	3.5	3.5	2.7		49	474	372	166	· ir	1 2
7.0 3.5 3.6 3.5 2.4 846 34 390 180 66 30 6.5 2.7 2.7 2.7 2.4 839 32 300 118 49 30 6.5 2.7 2.7 2.7 2.4 910 22 805 60 32 28 6.5 2.7 2.7 2.7 2.7 2.4 910 22 805 60 32 28 6.5 2.7 2.7 2.7 3.0 2.4 951 12 40 28 40 82 28 66 30 27 30 2.4 951 12 48 82 27 80 86 84 27 82 46 80 80 27 80 84 27 84 84 27 84 84 27 84 84 27 84 84 27 84 84 84 84	- 0	7.0	5.0	3.5	3.5	3.0		41	360	243	106	4	4
7.0 3.0 2.7 3.0 2.4 839 32 300 118 49 30 6.5 2.7 2.7 2.4 872 28 468 82 40 28 6.5 2.7 2.7 2.4 978 22 668 32 28 6.5 2.7 2.7 3.0 2.4 978 12 66 32 28 6.6 3.0 2.7 3.0 2.4 971 1486 87 84 27 6.0 3.0 2.7 3.0 2.4 944 21 486 87 84 27 6.0 3.0 2.7 3.0 2.4 972 37 504 498 36 64 26 6.0 3.0 3.0 2.4 972 2.1 468 83 20 4.7 3.0 2.4 972 2.1 468 33 20	000	7.0	3.5	3.0	3.5	2.4	846	34	390	180	99	30	*
6.5 2.7 2.7 2.7 2.4 872 28 468 82 40 28 65 5.5 2.4 2.7 2.7 2.4 910 22 605 60 32 28 65 5.2 2.4 2.7 2.7 2.7 2.4 910 22 605 60 32 28 65 5.3 2.4 2.7 2.7 3.0 2.4 951 16 480 132 38 27 65 6.5 3.0 2.7 3.0 2.4 954 1.16 480 132 38 27 65 6.5 3.0 3.0 3.0 2.4 972 37 504 55 64 25 6.4 25 6.5 3.0 3.0 2.4 972 37 504 55 64 25 6.4 3.0 3.0 2.7 3.0 2.4 972 26 504 36 33 21 45 84 19 4.5 3.0 3.0 2.7 3.0 2.4 957 26 643 33 21 45 84 19 4.0 2.7 3.0 2.7 2.4 967 28 432 145 84 19 4.0 2.7 3.0 2.7 2.4 967 18 444 438 676 18 444 438 676 18 2.4 2.4 3.0 2.7 2.4 965 144 438 676 891 18 2.4 2.1 3.0 2.7 2.1 965 1410 540 676 891 18 2.4 2.1 3.0 2.7 2.1 965 1410 540 676 891 18 2.4 2.1 3.0 2.7 2.1 965 151 19 17 2.1 1.3 2.1 3.0 2.1 965 151 140 540 676 891 15 2.1 1.3 2.1 3.0 2.1 3.0 2.1 3.0 2.1 3.0 2.1 3.0 2.1 3.0 2.1 3.0 3.0 2.1 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	2	7.0	3.0	2.7		2.4	839	32	300	118	49	30	1 5
6.5 2.4 2.7 2.7 2.4 910 22 605 60 32 28 65 65 3.0 2.4 951 12 372 112 32 27 65 5 3.0 2.7 3.0 2.4 951 16 486 132 38 27 65 5 3.0 2.7 3.0 2.4 951 16 486 55 3.0 2.7 3.0 2.4 951 18 21 21 23 27 65 5 3.0 2.7 3.0 2.4 944 21 486 55 3.0 3.0 3.0 3.0 2.4 972 37 504 55 36 23 36 23 37 504 36 41 20 4.5 3.0 3.0 3.0 2.4 972 21 468 88 338 20 4.5 3.0 3.0 3.0 2.4 972 21 468 88 338 20 4.5 3.0 2.4 972 21 468 88 338 20 4.5 3.0 2.4 965 22 444 438 676 18 2.4 2.4 2.4 3.0 2.7 2.4 965 16 444 438 676 18 2.4 2.4 2.1 3.0 2.7 2.4 965 16 444 438 676 18 2.4 2.4 2.1 3.0 2.7 2.4 965 16 444 438 676 891 18 2.4 2.1 3.0 2.7 2.1 965 150 690 904 16 18 2.4 1.8 1.5 2.7 2.1 965 150 690 904 16 12 1.8 1.5 2.7 2.1 965 150 690 904 16 1.8 2.1 1.8 1.5 2.7 2.1 979 372 540 690 904 16 1.8 2.1 1.8 1.5 2.7 2.1 979 372 540 690 904 16 1.8 2.1 1.8 1.8 2.1 1.8 1.8 2.1 1.8 1.8 2.1 1.8 1.8 2.1 1.8 1.8 2.1 1.8 1.8 2.1 1.8 1.8 2.1 1.8 1.8 2.1 1.8 1.8 2.1 1.8 1.8 2.1 1.8 1.8 2.1 1.8 1.8 2.1 1.8 1.8 2.1 1.8 1.8 1.8 2.1 1.8 1.8 2.1 1.8 1.8 2.1 1.8 1.8 2.1 1.8 1.8 2.1 1.8 1.8 1.8 2.1 1.8 1.8 2.1 1.8 1.8 2.1 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1	0 +	6.5	2.7	2.7	2.7		852	28	468	82	40	28	18
6.5 2.7 2.7 3.0 2.4 958 22 372 112 32 27 6.5 6.5 3.0 2.7 3.0 2.4 951 16 480 132 38 27 6.5 6.0 3.0 2.7 3.0 2.4 954 21 486 55 84 27 6.0 3.0 3.0 2.7 3.0 965 40 498 36 64 26 6.0 3.0 3.0 3.0 2.4 972 26 504 55 88 338 20 4.5 3.0 2.7 3.0 2.4 972 26 504 55 88 338 20 4.5 3.0 2.7 3.0 2.4 965 26 432 145 84 19 4.0 2.7 3.0 2.7 2.4 965 26 432 145 84 19 4.0 2.7 3.0 2.7 2.4 965 16 444 438 6576 18 2.4 2.4 2.4 3.0 2.7 2.4 965 16 444 438 6576 18 2.4 2.4 2.4 3.0 2.7 2.1 965 17410 540 676 891 18 2.4 2.1 1.4 2.7 2.1 965 17410 540 676 891 18 2.4 1.8 1.5 2.7 2.1 965 26 683 951 18 2.4 1.8 1.5 2.7 2.1 965 26 683 951 18 2.4 1.8 1.5 2.7 2.1 965 26 683 951 18 2.4 1.8 1.5 2.7 2.1 965 26 683 951 15 18 2.4 1.8 1.5 2.7 2.1 965 26 683 951 15 18 2.4 1.8 1.5 2.7 2.1 965 26 683 951 15 18 2.4 1.8 1.5 2.7 2.1 965 26 683 951 15 18 2.4 1.8 1.5 2.7 2.1 965 26 624 813 18 2.4 1.8 1.5 2.7 2.1 965 26 683 951 15 18 2.4 1.8 1.5 2.7 2.1 965 26 683 951 15 2.4 1.8 1.8 1.5 2.7 2.1 965 26 683 951 17 2.4 1.8 1.8 1.8 1.7 2.1 979 372 540 690 904 16 16 17 2.1 1.8 2.1 1.8 2.1 1.8 2.1 1.8 2.1 1.8 2.1 1.8 2.1 1.8 2.1 1.8 2.1 1.8 2.1 1.8 2.1 1.8 2.1 1.8 2.1 1.8 2.1 1.8 2.1 1.8 2.1 1.8 2.1 1.8 2.1 1.8 1.8 2.1		6.5	2.4	2.7	2.7	2.4	910	22	605	09	32	000	100
6.5 3.0 2.7 3.0 2.4 951 16 486 152 38 27 6.5 5.0 3.0 2.7 3.0 2.4 944 21 486 55 84 27 6.0 3.0 3.0 2.4 944 21 486 55 84 27 27 3.0 2.4 972 37 504 55 36 52 35 23 5.0 3.0 2.4 972 37 504 55 36 52 31 5.0 3.0 2.4 972 37 504 55 36 32 21 5.0 3.0 2.7 3.0 2.4 967 28 432 335 641 20 4.5 3.0 3.0 2.7 2.4 965 28 432 335 641 20 4.0 2.7 3.0 2.7 2.4 965 18 444 320 161 19 4.0 2.7 3.0 2.7 2.4 965 16 444 320 161 19 18 2.4 2.4 3.0 2.7 2.4 965 16 444 38 676 18 2.4 2.4 2.4 1.8 2.4 2.7 2.1 965 1,410 540 676 891 18 2.4 1.8 1.5 2.7 2.1 965 287 780 690 967 17 2.1 979 372 540 690 904 16 15 2.4 1.8 1.5 2.7 2.1 967 287 780 690 904 16 16 1.8 2.1 1.3 2.7 2.1 979 372 540 690 904 16 16 1.8 2.1 1.8 1.8 2.1	7	6.5	2.7	2.7	3.0	2.4	958	22	372	112	33	200	0 0
6.5 3.0 2.7 3.0 2.4 944 21 486 55 84 27 6.6 6.6 5.0 3.0 3.0 3.0 3.0 3.0 965 40 498 36 64 26 5.0 3.0 3.0 3.0 2.4 972 37 504 55 36 23 32 21 5.0 3.0 2.4 972 26 504 36 33 221 4.5 3.0 2.7 3.0 2.4 972 21 468 88 338 20 4.5 4.0 2.7 3.0 2.4 965 26 432 145 84 19 6.0 2.7 3.0 2.7 2.4 965 26 432 145 84 19 6.0 2.7 3.0 2.7 2.4 965 18 444 320 161 19 6.0 2.4 3.0 2.7 2.4 965 16 624 813 18 2.4 2.4 2.1 14 2.7 2.4 965 560 624 813 18 18 2.4 2.4 1.8 1.5 3.0 2.7 2.1 965 1410 540 676 891 18 2.4 1.8 1.5 3.0 2.1 965 140 690 904 16 17 1.8 2.4 1.8 1.5 3.0 2.1 979 372 540 690 904 16 17 2.4 1.8 1.8 1.5 2.7 2.1 979 372 540 690 904 16 17 1.8 2.1 1	9	6.5	3.0	2.7	3.0	2.4	951	16	480	132	00	110	0 100
6.5 2.7 2.7 3.0 3.0 965 40 498 36 64 26 66 3.0 3.0 3.0 2.4 972 37 504 55 36 23 22 3	4 1	6.5	3.0	2.7	3.0	2.4	944	21	486	5.5	4	7	0 00
6.0 3.0 3.0 2.4 972 37 504 55 36 23 39 3.0 3.6 2.4 972 26 504 36 23 4.5 3.0 3.7 3.0 2.4 972 26 504 36 23 4.5 3.0 3.0 2.4 965 28 432 33 641 20 4.6 3.0 3.0 2.4 965 26 432 33 641 20 4.0 2.7 3.0 2.7 2.4 965 18 444 438 676 18 4.0 2.7 3.0 2.7 2.4 965 16 444 438 676 18 2.4 2.7 2.4 965 16 444 438 676 18 2.4 2.7 2.4 965 1,410 540 676 882 18 2.4 2.1 2.7 2.4 965 1,410 540 690 964 18	~ '	6.5	2.7	2.7	3.0		596	40	498	36	64	36	17
5.9 3.0 3.5 3.0 2.4 972 26 504 36 32 21 4.5 3.0 2.7 3.0 2.4 972 21 468 88 338 20 4.5 3.0 2.7 3.0 2.4 965 28 432 145 84 19 4.0 2.7 3.0 2.7 2.4 965 18 444 438 676 18 4.0 2.7 3.0 2.7 2.4 965 16 444 438 676 18 4.0 2.7 3.0 2.7 2.4 965 16 444 438 676 18 3.0 2.4 965 16 444 438 676 18 2.4 2.7 2.1 965 1,410 528 826 18 2.4 2.1 2.7 2.1 965 1,44 438 876 <	0 1	0.0	3.0	3.0	3.0	2.4	972	37	504	25	36	23	20
5.0 3.0 2.7 3.0 2.4 972 21 468 88 338 20 4.5 3.0 3.0 2.4 965 28 432 335 641 20 4.6 2.7 3.0 2.7 2.4 965 28 432 145 84 19 4.0 2.7 3.0 2.7 2.4 965 18 444 438 641 20 4.0 2.7 3.0 2.7 2.4 965 16 444 438 676 18 3.0 2.7 2.4 965 22 516 444 438 676 18 2.4 2.4 3.0 2.7 2.4 965 52 516 18 2.4 2.1 3.0 2.7 2.1 965 1,410 540 676 891 18 2.4 2.1 3.0 2.1 965 1,410 540 690 965 17 2.4 1.8 1.5 3.0 2.1 965 18 780 690 965 17 2.4 1.8 1.5 2.7 2.1 965 287	- 0	200	3.0	3.5	3.0	2.4	972	26	504	36	32	2.1	21
4.7 3.0 3.0 2.4 965 28 432 335 641 20 4.6 2.7 3.0 2.7 965 2.6 432 145 84 19 4.0 2.7 3.0 2.7 2.4 965 2.6 432 145 84 19 4.0 2.7 3.0 2.7 2.4 965 16 444 438 676 18 3.0 2.7 2.4 965 16 444 438 676 18 2.4 2.4 3.0 2.7 2.4 965 560 624 813 18 2.4 2.1 3.0 2.7 2.1 965 1,410 540 676 891 18 2.4 1.8 2.4 3.0 2.1 965 1,410 540 690 965 17 2.4 1.8 1.5 3.0 2.1 965 18 780 690 965 17 2.4 1.8 1.5 2.7	000	5.0	3.0	2.7	3.0		972	21	468	88	338	20	19
4.7 3.0 3.0 3.0 2.4 965 26 432 145 84 19 4.0 2.7 3.0 2.7 2.4 965 18 444 320 161 19 4.0 2.7 3.0 2.7 2.4 965 16 528 676 18 2.4 2.4 3.0 2.7 2.4 965 595 560 624 813 18 2.4 2.1 3.0 2.7 2.1 965 1,410 540 676 891 18 2.4 2.1 14 2.7 2.1 965 1,410 540 676 891 18 2.4 1.8 2.7 2.1 965 1,410 540 676 891 18 2.4 1.8 1.5 3.0 2.1 965 17 2.8 780 690 965 17 2.4 1.8 1.5 2.7 2.1 967 287 780 690 965 17		. 4 	3.0	3.0	3.0	2.4	965	28	432	335	641	20	19
4.0 2.7 3.0 2.7 2.4 965 18 444 320 161 19 4.0 2.7 3.0 2.7 2.4 965 16 444 438 676 18 3.0 2.7 2.4 965 16 444 438 676 18 2.4 2.4 3.0 2.7 2.4 965 576 624 813 18 2.4 2.1 14 2.7 2.1 965 1,410 540 676 851 18 2.4 2.1 14 2.7 2.1 965 1,410 540 676 891 18 2.4 1.8 2.7 2.1 965 1,410 540 676 891 18 2.4 1.8 2.7 2.1 965 1,48 580 969 967 17 2.4 1.8 1.5 2.7 2.1 979 372 540 690 967 17 2.4 1.8 2.7 2.1		4.5	3.0	3.0	3.0	2.4	965	26	432	145	84	19	23
4.0 2.7 3.0 2.7 2.4 965 16 444 438 676 18 3.0 2.4 3.0 2.7 2.4 965 595 560 624 813 18 2.4 2.1 3.0 2.7 2.4 965 1,410 540 676 852 18 2.4 2.1 14 2.7 2.1 965 1,410 540 676 891 18 2.4 2.1 14 2.7 2.1 965 1,410 576 683 951 18 2.4 1.8 2.4 3.0 2.1 979 172 486 683 951 18 2.4 1.8 1.5 3.0 2.1 965 287 780 690 904 16 2.4 1.8 1.5 2.7 2.1 979 372 540 690 904 16 1.8 2.1 1.3 2.1 384 300 468 891 17 2.4 1.8 2.7 2.1 384 300 468 891 15 2.4 1.8 1.7 1.8 1.7 <td< td=""><td>1.</td><td>0.4</td><td>2.7</td><td>3.0</td><td>2.7</td><td>2.4</td><td>965</td><td>18</td><td>444</td><td>320</td><td>161</td><td>19</td><td>23</td></td<>	1.	0.4	2.7	3.0	2.7	2.4	965	18	444	320	161	19	23
2.4 2.4 3.0 2.7 2.4 965 22 516 528 826 18 2.4 2.4 3.0 2.7 2.4 965 595 560 624 813 18 2.4 2.1 3.0 2.7 2.1 965 1,410 540 676 895 18 2.4 2.1 14 2.7 2.1 965 1,410 540 676 891 18 2.4 1.8 2.4 3.0 2.1 967 172 486 683 951 18 2.4 1.8 1.5 3.0 2.1 967 287 780 690 967 17 2.4 1.8 1.5 2.7 2.1 979 372 540 690 904 16 1.8 2.1 1.3 2.1 301 384 300 468 891 15 2.4 1.8 1.7 77.8 94.9 87.5 75.3 25.298.8 4.961 14,619 10.242 12,544 2,056 5 380 154 188 174 149 50,180 9,840 29,000 20,310 24,880 4,080 11		0.4	2.7	3.0	2.7	2.4	596	16	444	438	676	18	21
2.4 2.4 2.4 2.4 2.4 965 595 560 624 813 18 2.4 2.1 3.0 2.7 2.1 965 1,410 540 676 852 18 2.4 2.1 14 2.7 2.1 965 1,410 540 676 852 18 2.4 1.8 2.7 2.1 979 375 486 683 951 18 2.4 1.8 1.5 3.0 2.1 967 287 780 690 965 17 2.4 1.8 1.5 2.7 2.1 979 372 540 690 904 16 1.8 2.1 1.3 2.1 384 300 468 891 17 2.4 1.8 2.7 2.1 372 498 135 917 191.7 77.8 94.9 87.5 75.3 25.298.8 4.961 14.619 10.242 12.544 2.056 5 380 154 149 50.180 9.840 29.000 20.310 24.880 4.080 11		3.0	4.7	3.0	2.7	2.4	396	22	516	528	826	18	22
2.4 2.1 3.0 2.7 2.1 965 1,410 540 676 852 18 2.4 1.8 2.7 2.1 965 1,410 540 676 891 18 2.4 1.8 2.4 1.8 1.5 3.0 2.1 965 17 683 951 18 2.4 1.8 1.5 3.0 2.1 965 287 780 690 965 17 2.4 1.8 1.5 2.7 2.1 979 372 540 690 904 16 1.8 2.1 1.3 2.1 384 300 468 891 17 2.4 1.8 2.1 498 496 135 917 17 191.7 77.8 94.9 87.5 75.3 25.298.8 4.961 14.619 10.242 12.544 2.056 5 380 154 149 50.180 9.840 29.000 20.310 24.880 4.080 11	+ 1	4.4	4.7	3.0	4.7	2.4	965	265	260	624	813	18	22
2.4 1.8 2.4 3.0 2.1 955 355 510 676 891 18 2.4 1.8 2.4 3.0 2.1 979 152 486 683 951 18 2.4 1.8 1.5 2.7 2.1 965 285 780 690 965 17 2.4 1.8 2.1 1.3 2.7 2.1 979 372 540 690 904 16 2.4 1.8 2.1 1.3 2.7 2.1 301 384 300 468 891 15 2.4 1.8 2.1 4.8 57.5 75.3 25.298.8 4.961 14,619 10.242 12,544 2,056 5 380 154 188 174 149 50,180 9,840 29,000 20,310 24,880 4,080 11	- 14	4.7	7.7	3.0	2.7	2.1	965	1,410	540	949	852	18	22
2.4 1.8 2.4 3.0 2.1 979 152 486 683 951 18 2.4 1.8 1.5 3.0 2.1 965 285 780 690 965 17 2.4 1.8 2.1 1.3 2.7 2.1 979 372 540 690 904 16 1.8 2.1 1.3 2.1 301 384 300 468 891 15 2.4 1.8 2.1 1.4 1.8 2.1 301 384 300 20.310 24.880 4.080 11	0.6	4.	1.7	14	2.7	2.1	965	355	510	949	891	18	23
2.4 1.8 1.7 2.7 2.1 955 285 780 690 965 17 2.4 1.8 1.5 2.7 2.1 979 372 540 690 904 16 1.8 2.1 1.3 2.1 301 384 300 468 891 15 2.4 1.8 2.1 3.1 384 300 468 891 15 2.4 1.8 77.5 75.3 25,298.8 4,961 14,619 10.242 12,544 2,056 5 380 154 188 174 149 50,180 9,840 29,000 20,310 24,880 4,080 11		4.4	0.1	4.7	3.0	2.1	646	152	486	683	951	18	24
1.8 1.5 2.7 2.1 979 372 540 690 904 16 1.8 2.1 1.3 2.1 301 384 300 468 891 15 2.4 1.8 2.4 1.8 2.1 4.98 4.961 14,619 10.242 12,544 2,056 5 380 154 188 174 149 50,180 9,840 29,000 20,310 24,880 4,080 11		7 0	0.7	1.5	3.0	2.1	396	285	780	069	965	17	22
1.8 2.1 1.3 2.1 301 384 300 468 891 15 2.4 1.8 2.1 301 384 300 468 891 15 191.7 77.8 94.9 87.5 75.3 25.298.8 4.961 14,619 10,242 12,544 2,056 5 380 154 188 174 149 50,180 9,840 29,000 20,310 24,880 4,080 11		4.7	0.0	1.5	2.7	2.1	646	372	540	069	904	16	00
2.1 498 135 917 191.7 77.8 94.9 87.5 75.3 25,298.8 4,961 14,619 10,242 12,544 2,056 5 380 154 188 174 149 50,180 9,840 29,000 20,310 24,880 4,080 11		1.8	2.1	1.3		2.1	301	384	300	468	891	15	00
191.7 77.8 94.9 87.5 75.3 25,298.8 4,961 14,619 10,242 12,544 2,056 380 154 188 174 149 50,180 9,840 29,000 20,310 24,880 4,080	OTAL		4.7	1.8		2.1		498		135	917		2.1
380 154 188 174 149 50,180 9,840 29,000 20,310 24,880 4,080	c. ft.	191.7	77.8	94.9	87.5	75.3	25,298.8		14.619	10.242	12 544	2000	570
	tt.	380	154	188	174	149	50,180		29,000	20,310	24.880	4 080	1.150

APPENDIX "B-7"

ARKANSAS RIVER AT THE COLORADO-KANSAS STATELINE

	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.
-	93	20	64	27	82	45	361	65	31	115	395	2,7
2	125	93	64	30	82	45	205	58	51	102	429	23
ce	121	93	64	32	73	5.5	150	50	146	87	357	23
4	101	75	76	49	73	125	124	304	479	99	188	23
	109	70	82	61	67	196	106	172	219	09	113	5
9	16	65	82	64	26	274	93	47	732	89	105	20
1	93	09	82	70	89	309	80	50	762	61	120	2
00	64	62	82	73	16	325	69	51	298	09	86	5
0	64	65	73	64	64	313	69	249	188	61	73	2
10	68	70	79	61	16	338	62	197	127	45	62	2
111	93	74	85	67	70	335	59	113	72	36	51	5
12	16	18	76	73	61	355	5.2	70	09	39	41	1
3	68	82	70	121	65	408	52	65	59	45	36	1
14	200	76	70	101	70	414	50	45	71	107	33	1
15	70	64	67	121	75	394	53	30	67	55	32	7
16	53	70	58	109	80	354	51	24	44	33	29	2
17	53	70	50	109	85	354	48	22	41	30	29	5
18	76	67	54	109	70	378	45	2.5	83	44	30	2
19	89	19	200	28	64	419	40	34	417	513	31	7
20	109	77	62	82	67	403	40	25	2370	4290	29	27
21	93	105	99	8 2	76	386	36	2.1	650	546	26	3
22	8 5	105	70	200	16	373	34	20	402	340	24	7
23	82	105	73	85	67	378	35	21	309	375	25	2
24	16	101	70	16	55	380	143	22	196	492	24	7
25	101	93	73	93	45	407	164	29	146	456	27	3
26	89	93	82	82	43	411	221	29	169	420	25	5
27	200	82	8	70	53	390	179	28	168	423	24	3
28	93	82	82	73	49	393	100	37	147	440	23	7
29	93	200	67	73	45	404	113	43	121	419	23	73
30	06	76	27		51	405	105	41	119	408	26	26
31		64	30		49		78		156	396		2
TOTAL				* 400	2000	2740	2020	1001	0008	10627	3636	76
sec. it	14/7	5400	5717	1677	107	10110	2000	2020	17650	21000	5010	1500
ac. It	2440	4030	0174	4400	4110	12010	1220	THE VEA	R 97 610	Acre Per	of the same	

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

APPENDIX "B-8"

* * * *

ARKANSAS RIVER AT GARDEN CITY, KANSAS

11	DAY	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	TUNE	TULY	ATTG	SFPT	TOC
11	-		,	77						,			
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15 88 32 152 47 10 8.4 3.8 6.5 29 5.6 108 63 7.3 7.2 1.8 6.5 49 85 13 96 50 5.9 4.8 7.0 7.7 66 75 22 109 43 6.2 6.2 2.8 5.0 80 66 37 107 39 8.4 6.6 .9 1.3 6.5 95 63 27 109 43 6.2 4.6 .9 1.3 6.5 95 63 27 106 37 6.2 4.6 .9 1.3 6.2 84 113 47 103 34 7.0 6.2 3.8 3.3 3.3 84 113 47 103 34 7.0 6.9 8.0 10 77 181 63 90 31 6.6 3.8 7.3 6.2 70 181 68 30 4.0 6.6 8.0 3.6 70 172 90 112 7.0 6.2 8.0 3.6 70 172 90	4	15	107	35	164	5.1	7.6	9.9	3.2	5.3	0 5	C	000
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49 85 13 96 50 5.9 4.8 7.0 7.7 66 5.9 6.2 2.8 5.6 80 65 37 107 39 8.4 6.6 .9 1.3 9.6 80 65 37 107 39 8.4 6.6 .9 1.3 9.7 8.4 113 47 103 34 7.0 5.9 8.0 10 8.1 146 68 101 33 6.6 3.8 7.3 5.6 7.7 170 75 79 31 4.8 8.0 9.6 8.0 3.6 7.7 170 75 79 31 4.8 8.0 9.6 8.0 3.6 7.7 170 75 77 27 90 112 53 33 8.4 481 2.8 3.9 6.5 7.2 64 50 2.3 33 8.4 481 2.8 3.9 6.5 7.0 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7	1	29	56	5.6	108	63	7.3	5.2	00.	5.0	4.2	1.5	000
66 75 22 109 43 6.2 2.8 5.6 80 6.3 5.7 107 39 8.4 6.6 .9 1.3 6.5 95 8.4 6.6 .9 1.3 95 8.4 113 47 106 37 107 39 8.4 6.2 2.8 5.6 9.5 1.3 95 95 8.4 113 47 103 34 7.0 5.9 8.0 10 8.1 146 68 101 33 6.6 3.8 7.3 7.6 7.7 170 77 79 31 4.8 8.0 9.6 3.6 7.7 170 77 27 90 112 73 33 8.4 481 2.8 3.9 6.5 7.2 64 50 23 8.4 481 2.8 3.9 6.5 7.2 64 50 23 8.4 481 2.8 3.9 6.5	00	49	00	13	96	50	6.5	4.8	7.0	7.7	2.8	1.5	15
80 66 37 107 39 8.4 6.6 .9 1.3 95 63 27 106 37 6.2 4.6 3.8 3.3 84 113 47 103 34 7.0 5.9 8.0 10 81 146 68 101 33 6.6 3.8 7.3 7.6 79 181 63 90 31 6.2 7.0 6.2 6.2 77 170 77 79 31 4.8 8.0 9.6 3.6 77 170 127 120 77 27 33 8.4 481 2.8 3.9 65 72 64 50 23 14 125 6.5 3.9 71 170 77 290 112 73 33 8.4 481 2.8 3.9 72 170 270 270 270 270 270 270 270 270 270 2	6	99	75	22	109	43	6.2	6.2	2.8	5.6	4.	2.8	ঘ
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92 80 35 104 36 6.2 10 6.2 39 84 113 47 103 34 7.0 5.9 8.0 10 81 146 68 101 33 6.6 3.8 7.3 5.6 77 170 75 79 31 4.8 8.0 9.6 3.6 77 152 110 68 30 4.0 6.6 8.0 3.6 77 125 120 57 27 33 8.4 481 2.8 3.9 65 72 64 50 23 14 125 4.5 3.9		56	63	27	106	37	6.2	4.6		3.3	29	5.9	9
84 113 47 103 34 7.0 5.9 8.0 10 81 146 68 101 33 6.6 3.8 7.3 5.6 77 170 77 170 68 30 4.0 6.6 8.0 3.6 77 170 125 120 57 27 3.8 924 3.8 5.6 70 125 120 57 27 3.8 924 3.8 5.6 71 170 170 170 170 170 170 170 170 170 1	7	92	80	35	104	36	6.2	10		39	674	5.3	4
81 146 68 101 33 6.6 3.8 7.3 5.6 77 79 181 63 90 31 6.2 7.0 6.2 6.2 77 170 77 79 31 4.8 8.0 9.6 3.6 77 77 170 125 120 57 27 3.8 924 3.8 5.6 72 90 112 53 33 8.4 481 2.8 3.9 65 72 64 50 23 38 14 125 4.5 3.9 6.5	. 33	40	113	47	103	34	7.0	5.9		10	93	5.3	10
79 181 63 90 31 6.2 7.0 6.2 6.2 7.7 77 170 110 68 3.0 4.0 6.6 8.0 3.6 7.0 125 120 77 27 3.8 924 3.8 5.6 7.2 90 112 73 3.3 8.4 481 2.8 3.9 6.5 7.2 64 50 2.3 14 125 4.5 6.5 7.0	4 1	100	146	89	101	33	9.9	3.8		5.6	9.2	5.3	25
77 170 75 79 31 4.8 8.0 9.6 3.6 75 75 152 110 68 30 4.0 6.6 8.0 3.6 72 90 112 53 8.4 481 2.8 3.9 65 65 72 64 50 23 14 125 4.5 3.9 70 125 120 5.0 125 120 5.0 125 120 5.0 125 120 5.0 125 120 5.0 125 120 5.0 125 120 5.0 120 5	. 5	79	181	63	06	3.1	6.2	7.0		6.2	1.5	4.2	1
75 152 110 68 30 4.0 6.6 8.0 3.6 70 125 120 57 27 3.8 924 3.8 5.6 72 90 112 53 33 8.4 481 2.8 3.9 65 72 64 50 23 14 125 4.5 3.9 AL	9	77	170	75	19	3.1	4.8	8.0		3.6	0	3.9	0
70 125 120 57 27 3.8 924 3.8 5.6 72 90 112 53 33 8.4 481 2.8 3.9 65 72 64 50 23 14 125 4.5 3.9 AL	7	75	152	110	89	30	4.0	9.9		3.6	2.5	4.7	7
72 90 112 53 33 8.4 481 2.8 3.9 65 72 64 50 23 14 125 4.5 3.9 6.5	00	70	125	120	27	27	3.8	924		5.6	2.0	4.7	35
AL 55 72 64 38 14 125 4.5 3.9 AL 125 72 6.5	0	72	06	112	53	33	8.4	481		3.9	7.	3.0	9
AL 1336 1831 1831 1831 6.5	0	65	72	64		38	14	125		3.9	1.8	2.5	0
ייייי ייייי איניאו איניאו איניאו איניאו איניאו איניאו איניאו	TOTAL		64	20		23		39		6.5	1.3		5.9
1220 2790 1523.6 2521 1202 325.9 1805.0 161.1 303.5	ec. ft.	1226		1523.6		1202	325.9		1 191	303.2	024 1	20.0	17.4
5530 3020 5000 2380 646 3580 300	c. ft.	2430		3020		2380	646		320	503.5	1810	1,001	2.46
									THE YEA	R 25.850	Acre Feet		

ARKANSAS RIVER AT GARDEN CITY, KANSAS

APPENDIX "B-9"

DEMANDS BY COLORADO FOR WATER

JUNE JULY AUG. SEPT. OCT.	COLORADO DITCHES ON DE. 550 CREED PRIORITIES AT TIMES SHOW'N DURING APRIL TO OCTOBER INCLUSIVE 150 60 300 220 300 450 320 410 420 440 420 410 420 420 420 510 420 510 560 560 570 570 570 570 570 570 570 570 570 57
APR. MAY J	COLORAL 100 CREED PH 250 WHEN N 450 CTOBER 450 OCTOBER 450 OCTOBE
MAR.	
FEB.	
JAN.	
NOV. DEC.	
DAY NO	25

APPENDIX "B-10"

DEMANDS BY KANSAS FOR WATER

		OCT.		00
		SEPT.	110	1,010
		AUG.	TIMES II. TO II. TO 130 400 400 400 400 400 400 400	4,130 8,190 Acre Post
		JULY	RPTY AT MAND IS NG APR NG APR 200 200 210 210 280 280 280 280 280 280 280 280 280	
DEMANDS BY KANSAS FOR WATER	756 records)	JUNE	RESERVOIR EMPTY AT TIMES WHEN NO DEMAND IS SHOWN DURING APRIL TO OCTOBER INCLUSIVE 80 130 200 400 210 400 250 400 280 400 280 400 280 400 280 400 280 400 280 400 280 400 280 400 280 400	0 2,315 0 4,590 THE YEAR 35,270
FOR	ber 31, 19	MAY	RESER WHEN SHOW: OCTOB	00
ANSAS	Report-Year ending October 31, 1956 (Arkansas River Compact Administration records)	APR.	3 300 3 300 3 300 3 300 3 300 3 300 3 300 3 300 4 400 4 600 4 600	10.830
S BY K	Year end	MAR.		0 0 2
MAND	Report kansas R	FEB.		00
DE	(A)	JAN.		00
		DEC.		00
		NOV.		00
		DAY	100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	sec. ft. ac. ft.

APPENDIX "B-11"

STATELINE FLOW ON DAYS OF KANSAS DEMAND*

OCT.

1,482 2,940 SEPT. 395 429 357 1188 1,222 3,671 1, 2,420 7,280 2. THE YEAR 32,900 Acre Feet. AUG. 492 456 420 423 440 419 408 396 STATELINE FLOW ON DAYS OF KANSAS DEMAND* JULY 196 146 169 168 171 119 119 Report-Year ending October 31, 1956 U S G S Records—Provisional, subject to revision JUNE MAY 1,420 361 205 150 9,496 APR. MAR. FEB. JAN. DEC. NOV. TOTAL

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

APPENDIX "B.12"

* * * *

DIVERSIONS BY DITCHES IN COLORADO WATER DISTRICTS 14 AND 17

Report-Year ending October 31, 1956 Source of Information, A.V.D.A. Reports—Reservoir Water is that from upstream reservoirs above Pueblo (Acre Feet)

	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	YEAR
Bessemer (River) Res. or Imported	3,898	3,273	00	00	3,604	3,951	7,303	6,815	4,376	4,880	2,559	2,644	43,303
Total	3,898	3,273	0	0	3,604	3,951	7,303	6,815	4,832	5,670	2,559	2,644	44,549
West Pueblo (River) Booth-Orchard Gr. (Riv.) Excelsior (River) Res. or Imported	93 722 0	859	0000	0 0 182 0	147 956 8	179 916 0	214 1,111 252 0	288 1,111 688 0	1,107 0	190 1,100 210	952 952 0	184 1296 0	1,658 9,130 1,340
Total	0	0	0	182	000	0	252	688	0	210	0	0	1,340
Colorado Canal (Riv.) Res. or Imported	0	00	79	1,087	00	3,660	595 4,390	4,649	9,297	1,050	0	1,258	37,957
Tota	0	0	46	1,087	0	3,660	4,985	15,167	9,297	8,710	1,174	1,258	45,417
Highline (River)	2,481	4,709	4,203	5,278	3,959	3,394	8,289	10,931	4,455	5,300	3,392	3,435	3,868
Total	2,481	4,709	4,203	5,278	4,145	4,070	8,289	10,931	6,331	6,430	3,392	3,435	63,694
Oxford Canal (Riv.)	778	611	760	426	989	793	2,626	5,683	1,422	2,150	815	819	17.569

¹ Booth-Orchard ditch stopped diverting at 7 A.M., October 10, 1956, releasing the water for the Holly Sugar Company. ² Highline Canal cut diversions by 40 Acre Peet, releasing the water for the Holly Sugar Company.

APPENDIX "B-12" (Continued)

DIVERSIONS BY DITCHES IN COLORADO WATER DISTRICTS 14 AND 17

	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	YEAR
Otero (River)	00	00	50	651	00	00	303	1,726	00	370	00	0 0	3,100
Total	0	0	50	651	0	0	303	1,726	0	370	0	0	3,100
Catlin (River)	14,544	5,363	6,048	2,832	4,068	2,428	11,468	15,431	8,204	3,810	00	999,	64,862
Total	4,544	5,363	6,048	2,832	4,068	2,910	11,468	15,431	8,204	3,810	0	999	65,34
Holbrook (River)	0	0	432	3,047	0	0	1,876	3,140	744	2,240	0	0	11,475
Rocky Ford (River)	3.852	2,868	2,335	276	2,729	5,706	6,093	5,885	5,486	4,980	2,077	3,945	46,232
Ft Lyon Storage (River)	0	0	0	0	0	0	0	0	1,220	099	0	0	1,880
Pr Lyon Canal (River)	10.867	13.736	13.248	12,177	11.635	7.674	19,500	34.332	11,778	9,380	0	1,884	146,211
Las Animas Cons. (Riv.)	1.666	1,418	811	258	1,390	833	2,987	4,814	2,315	2,190	357	496	19,533
Las Animas Town (Riv.)	153	0	0	0	484	1,303	1.547	1,819	1,077	1,150	932	319	8,784

^a Includes 607 Acre Feet diverted for Holly Sugar Co. and 129 Acre Feet of Rocky Ford Ditch water diverted for City of Rocky Ford.

^d Entire amount diverted for Holly Sugar Co.

 64,164
 97,312
 42,368
 39,660
 11,263
 14,688
 442,369

 4,390
 10,518
 11,629
 9,580
 1,174
 1,258
 43,553

 68,554
 107,830
 53,997
 49,240
 12,437
 15,946
 485,922

APPENDIX "B-13"

DIVERSIONS BY DITCHES IN COLORADO WATER DISTRICT 67

Report-Year ending October 31, 1956 Source of Information A.V.D.A. Reports (Acre Feet)

	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.		OCT.	THE
Ft. Bent Canal	430	0	0	0	0	2.886	1.137	3.195	2.029	1.946		10	
Keesee Ditch	0	0	0	0	0	538	635	605	454	520		147	
Amity Canal	290	0	0	0	0	16.034	4 247	17716	8 860	0 584		0	
Lamar Canal	750	06+	.0	0	159	6.125	2.632	5.560	4 933	3 836		705	
Hyde Ditch	100	56	0	0	0	270	179	309	325	260		135	
Manvel Canal	0	0	0	0	0	744	50	135	417	353		70	
X. Y. & Graham Canal	0	0	0	0	0	1.248	541	460	1 170	940		101	
Buffalo Canal	720	305	0	0	0	1.533	1.866	1.817	2.422	2 295		1 1 3 3	
Sisson Canal	0	0	0	0	0	0	0	20	-20	20		0	
TOTAL	2.290	851	0	0	159	29,378	11,287	29,817	20,630	19,754	6,718	2,620	-

'Includes 52 Acre Feet for Keese Ditch.

APPENDIX "B-14"

* *

DIVERSIONS BY DITCHES IN KANSAS

Report-Year ending October 31, 1956 Frontier Ditch, U.S.G.S. Records Other Ditches, Kansas Division of Water Resources Records (Acre Feet)

	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	YEAR
Frontier Ditch	0	0	0	0	0	1,670	2.000	1.180	1.780	2.020	1.570	1.290	11.510
Alamo Canal	240	0	0	0	19	849	494	315	75	323	333	150	2 849
Ft. Aubrey Canal	157	0	0	0	0	1,370	827	208	1,120	1,200	664	496	6.042
Total Stateline	100					0000		1	1 1				
to Syracuse	397	0	0	0	10	5,889	3,321	1,703	2,975	3,543	2,567	1,945	20,401
Amazon Canal	0	0	0	0	793	3,130	16	635	3.540	1,470	2.050	0	11.634
South Side Ditch	0	0	0	0	0	3,110	662	186	2,470	577	0	0	7.005
Great Eastern Canal	38	841	2,490	1,080	2,120	3,190	2,400	0	2,920	3,360	0	0	18,439
Farmer's Ditch	2,350	0	0	0	0	2,520	2,610	2,080	1,360	2,740	1,110	0	14,770
Garden City Canal	591	0	56	0	103	883	301	795	601	208	482	115	4,135
Total Syracuse to Garden City	2,979	841	2,546	1,080	3,016	12.833	5,989	3,696	10.891	8,355	3.642	115	55.983
Total Stateline to Garden City	3,376	841	2,546	1,080	3,077	16,722	9,310	5.399	13.866	11.898	6.209	2.060	76.384

APPENDIX "B-15"

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SUMMARY TABULATION

(Acre Feet)

	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MA	Y JUNE J	JULY	AUG.	SEPT.	OCT.	THE	APP.
Arkansas river at Las Animas, Colo Purgatoire River near Las Animas,	589	831	1110	1960		1010	6830	26380	5900	1410	277 261	261		B-2
Colo.	405	974	563	046	069	152	3410	2500 1	16130	27290	191	112	53390	B-3
Inflow to John Martin Reservoir	866	1800	1680	2930		1170	10240	28880	22050	28690	468	373	101090	B-48
Reservoir contents at end of month ?	39042	41080	42944	46550		0	0	0	0	2600	0	0	0	B-5
Net change in reservoir storage	+824	+2038	+1864	+3606		-48363	0	0	0	+2600	-2600	0	38218	B-5
Outflow from John Martin Reservoir	380	154	188	174		50180	9840	29000	20310	24880	4080	1150	140480	B-6
Diversions in District 67, Colo	2290	851	0	0		29378	11287	29817	20630	19754	6718	2620	123504	B-13
Flow at Colorado-Kansas Stateline	5+40	4830	4210	4460		19370	5990	3930	17650	21090	5010	1520	97610	B-7
Diversions in Kansas	3376	841	2546	1080		16722	9310	5399	13866	11898	6200	2060	76384	B-14
Arkansas River at Garden City, Kans.	2430	5530	3020	5000		9+9	3580	320	601	1830	168	346	25850	B-8

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

THOUSANDS OF ACRE FEET

INFLOW, OUTFLOW AND CONTENTS OF JOHN MARTIN RESERVOIR Report Year, November I, 1955 - October 31, 1956 AND STATELINE FLOW