

TWENTY—SECOND ANNUAL REPORT
ARKANSAS RIVER
COMPACT
ADMINISTRATION
(1970)

For the Report Year November 1, 1969 to October 31, 1970

LAMAR, COLORADO

December 9, 1970

THE ADMINISTRATION

COLONEL GUSTAV L. SELIGMANN
Chairman and Representative of the United States

J. T. REEDY, GEORGE F. REYHER and FELIX L. SPARKS
for Colorado

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

210 South Fifth
Lamar, Colorado 81052

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Annual Report of
ARKANSAS RIVER COMPACT
ADMINISTRATION

(1970)

Report-Year November 1, 1969 to October 31, 1970

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

Sirs:

Pursuant to Article VII of the Arkansas River Compact, the Arkansas River Compact Administration submits its report for the Report-year November 1, 1969 through October 31, 1970 as follows:

1. Members of the Administration

Representative of the United States:

Wilbur L. Heckler (November 1, 1969 — May 20, 1970)
Colonel Gustav L. Seligmann, USA, Ret. (May 21, 1970 —
October 31, 1970)

Colorado Representatives:

Ernest Hofmeister, Lamar, Colorado (November 1, 1969 —
March 3, 1970)
J. T. Reedy, Hartman, Colorado (March 4, 1970 — October
31, 1970)
George F. Reyher, McClave, Colorado
Felix L. Sparks, Denver, Colorado

Kansas Representatives:

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

2. Officers of the Administration

Chairman:

Wilbur L. Heckler (November 1, 1969 — May 20, 1970)
Colonel Gustav L. Seligmann (May 21, 1970 — October 31,
1970)

Vice Chairman:

Carl E. Bentrup

Secretary:

Lane L. Hackett

Treasurer:

Ernest Hofmeister (November 1, 1969 — March 3, 1970)
J. T. Reedy (Acting) (March 4, 1970 — October 31, 1970)

3. Standing Committees

Administrative and Legal Committees:

Felix L. Sparks (Chairman)
Logan N. Green

Engineering Committees:

Robert V. Smrha (Chairman)
George F. Reyher

Operations Committee:

Ernest Hofmeister (Chairman) (November 1, 1969 — March 3, 1970)
J. T. Reedy (Acting Chairman) (March 4, 1970 — October 31, 1970)
Carl E. Bentrup

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

4. Meetings

December 9, 1969 Lamar, Colorado Annual Meeting
May 25, 1970 Telephonic Meeting

5. Fiscal

(a)	Balance on Hand November 1, 1969	\$11,256.10
(b)	Receipts:	
	State of Colorado	\$4014.00
	State of Kansas	<u>2676.00</u>
		<u>6,690.00</u>
(c)	Total Funds Available	\$17,946.00
(d)	Disbursements by the Administration — November 1, 1969 to October 31, 1970:	

Date	Voucher No.		Amount
11/3/69	70	Mtn. States Telephone—Oct. Service	\$ 18.38
12/8/69	71	Federal Reserve Bank—FICA Tax	36.00
12/8/69	72	Lane Hackett—Salary, Travel & Postage	499.60
12/8/69	73	Strait & Crimmond—Audit	100.00
12/8/69	74	Schoenith Office Eq. Typewriter & Off. Supplies	257.58
12/8/69	75	Mtn. States Telephone—Nov. Service	17.13
12/8/69	76	Ronald Anderson—Typing	25.00
1/2/70	77	Mountain Bell—December Service	17.38
1/2/70	78	U.S. Geo. Survey—1st Half Agreement	1550.00
2/3/70	79	Mountain Bell—January Service	15.40
3/5/70	80	Mountain Bell—February Service	12.40
3/5/70	81	Lane Hackett—Travel, Postage & Salary	476.00
4/4/70	82	Lamar Typewriter—Office Supplies	19.52
4/4/70	83	Mountain Bell—March Service	31.32
4/4/70	84	Federal Reserve Bank—FICA Tax	36.00
5/1/70	85	U.S. Geo. Survey—3rd Qtr. Agreement	775.00
5/1/70	86	Mountain Bell—April Service	22.90
6/3/70	87	Mountain Bell—May Service	28.61
6/3/70	88	Lamar Daily News—Printing	439.40
6/27/70	89	Lane Hackett—Travel, Postage & Salary	508.50
6/27/70	90	Federal Reserve Bank—FICA Tax	36.00
6/27/70	91	Mountain Bell—June Service	33.30
6/27/70	92	U.S. Geo. Survey—4th Qtr. Agreement	775.00
8/1/70	93	Mountain Bell—July Service	32.97
9/5/70	94	Lane Hackett—Travel, Postage & Salary	480.00
9/5/70	95	Mountain Bell—August Service	32.97
9/5/70	96	Milne Agents, Inc.—Bond	25.00
10/2/70	97	Mountain Bell—September Service	20.25
10/2/70	98	Federal Reserve Bank—FICA Tax	36.00
10/10/70	99	U.S. Geo. Survey—1st Qtr. Agreement	950.00

TOTAL DISBURSEMENTS \$7,300.45

Balance on Hand November 1, 1969 . . . \$11,256.10
 Deposits — State of Colorado 4,014.00
 Deposits — State of Kansas 2,676.00
17,946.10

- (e) Balance on Hand October 31, 1970 10,645.65
 (f) At the Annual Meeting held December 9, 1969 the Compact Administration tentatively adopted the following budget for the Fiscal Year July 1, 1971 to June 30, 1972 and it was formally adopted by correspondence in July 1970.

Personal Services \$1,675.00
 Secretary's Salary \$1,500.00

Social Security	75.00	
Professional Services (Audit)	100.00	
U.S. Geological Survey		4,000.00
Cooperative Services	4,000.00	
Capital Outlay		500.00
Office Equipment	500.00	
Maintenance and Operation		2,115.00
Bond (Treasurer)	15.00	
Printing	700.00	
Official Publications	100.00	
Travel Expense	500.00	
Typing and Mailing	100.00	
Investigation and Inspection	100.00	
Telephone and Telegraph	300.00	
Office Supplies	300.00	
Total Budget 1971-1972		\$8,290.00
Estimated Carryover June 30, 1971		3,000.00
To Be Appropriated		<u>\$5,290.00</u>
Colorado (60%)	\$3,174.00	
Kansas (40%)	<u>2,116.00</u>	
		<u>\$5,290.00</u>

- (g) Pursuant to Provisions of the Compact (Article VIII-E(3) and of the By-Laws of the Administration (Article VII(5), the receipts and disbursements of the Administration have been audited for the period commencing November 1, 1969 through October 31, 1970 the end of the Report-Year. The report of such audit is hereto attached as Appendix "A".

6. Cooperative Studies and Activities

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

Corps of Engineers continued to operate the conservation pool of John Martin Reservoir in accordance with the terms of the Compact and the orders of the Administration.

7. Water Supply, Reservoir Operation and Hydrologic Data

On November 1, 1969, the beginning of the compact year, 20,420 acre feet were stored in John Martin Reservoir. Colorado made no demands for river flow until March 9, 1970 when 30 cfs. of river flow was requested. From then until April 16, the call for river flow varied from 30 to 65 cfs. By the time the irrigation season started on April 1, the water in storage had increased to 54,180 acre feet.

Neither Colorado nor Kansas irrigators made a call for water in storage until April 17 when Colorado demands called for release of 100 cfs. The maximum of 57,852 acre feet in storage was reached April 19. Kansas demand for water was made April 20. Various releases were continued until the water in storage was exhausted at 9 P.M. M.D.T. on May 28. The reservoir remained empty until October 8 when the gates were closed at 8 A.M. Even though Colorado ditches called for reservoir water from October 12 until the end of the irrigation season, October 31, 1970, storage continued for that period. Storage on October 31 was 2,692 acre feet.

Inflow to John Martin Reservoir during the irrigation season was 127,290 acre feet and during the same period 99,740 acre feet crossed the Colorado-Kansas stateline. Diversions by Colorado ditches in Water District 67 and by Kansas ditches for the period were 179,120 acre feet and 92,273 acre feet respectively.

The gaging station at Garden City, Kansas has been discontinued by mutual agreement of the states and will no longer be tabulated in the appendices.

8. Gaging Stations

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

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

The Administration approved a cooperative agreement with the U.S. Geological Survey for the fiscal year July 1, 1970 to June 30, 1971, in the amount of \$7,600; \$3,800 for each party. These funds are for the operation of the Compact station at Lamar, the additional field work at the other Compact stations, the maintenance of the radio equipment, the providing of current streamflow data, and the preparation of records for the Annual Report.

9. Findings of Fact By the Administration

A finding of fact was made on May 25, 1970 by telephonic meeting to determine when the reservoir would be declared empty. The minutes of that meeting follow:

SPECIAL TELEPHONIC MEETING

MAY 25, 1970

A special telephonic meeting was held May 25, 1970, in accordance with Article V-F of the Compact for the purpose of declaring the reservoir to become empty. It was declared the reservoir would become empty May 28, 1970.

Mr. C. J. Kuiper, Colorado State Engineer and Mr. Rudy Styduhar Division Engineer were notified of this action and administration of decreed water rights for Colorado would commence on May 28, unless a change of conditions justified cancellation or modification of this notice.

The reservoir became empty 2100 MDT on May 28, 1970.

Participating members:

For Kansas — Mr. Bentrup and Mr. Green
For Colorado — Mr. Reedy and Mr. Reyher

Respectfully Submitted

ARKANSAS RIVER COMPACT ADMINISTRATION
BY:

COLONEL GUSTAV L. SELIGMANN
Representative of the United States and
Chairman of the Administration

J. T. REEDY
GEORGE F. REYHER
FELIX L. SPARKS
Colorado Members of the Administration

CARL E. BENTRUP
LOGAN N. GREEN
ROBERT V. SMRHA
Kansas Members of the Administration

Lamar, Colorado
December 9, 1970

APPENDICES

for

ANNUAL REPORT OF THE ARKANSAS RIVER COMPACT ADMINISTRATION

For the Report-Year November 1, 1969 to October 31, 1970

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APPENDIX "A"

* * * *

AUDITOR'S REPORT A. MARVIN STRAIT

CERTIFIED PUBLIC ACCOUNTANTS
Johnson-Strait Building
Lamar, Colorado 81052

November 18, 1970

To the Representative
Arkansas River Compact Administration
Lamar, Colorado 81052

Gentlemen:

We have examined the Statement of Assets and Liabilities resulting from cash transactions of the Arkansas River Compact Administration as of October 31, 1970, and the Statement of Cash Receipts and Disbursements for the fiscal year then ended.

Our examination was conducted in accordance with generally accepted auditing standards, and included such tests of the accounting records and such other auditing procedures as we considered necessary in the circumstances.

The receipts and disbursements for the budget year July 1, 1969, to June 30, 1970, compared with budget are presented in Exhibit C. This schedule is the result of the receipts and disbursements for the appropriate months of the current and previous report years.

In our opinion, Exhibits A and B, present fairly the assets and liabilities resulting from cash transactions of the Arkansas River Compact Administration at October 31, 1970, and the results of cash transactions of the fiscal year then ended, on a basis consistent with that of the previous year.

Respectfully submitted,

Strait & Crimond

EXHIBIT A

ARKANSAS RIVER COMPACT ADMINISTRATION

STATEMENT OF ASSETS AND LIABILITIES **RESULTING FROM CASH TRANSACTIONS** **OCTOBER 31, 1970**

<u>ASSETS:</u>	
Cash in Bank	\$10,646
Equipment	959
<u>TOTAL ASSETS</u>	<u>\$11,605</u>

LIABILITIES AND FUND BALANCE:

Liabilities	\$ ---
Fund Balance:	
Expended—Equipment ... \$	959
Unexpended	10,646
TOTAL FUND BALANCE	11,605
TOTAL LIABILITIES AND FUND BALANCE ..	\$11,605

EXHIBIT B

**ARKANSAS RIVER COMPACT ADMINISTRATION
STATEMENT OF RECEIPTS AND DISBURSEMENTS & CHANGES
IN FUND BALANCE
FOR THE FISCAL YEAR ENDED OCTOBER 31, 1970**

FUND BALANCE, NOVEMBER 1, 1969 **\$11,256**

RECEIPTS:**Revenue from Assessments:**

Colorado	\$ 4,014
Kansas	2,676
TOTAL RECEIPTS	\$ 6,690

DISBURSEMENTS:

U.S. Geological Survey—Gauging	\$ 4,050
Secretary Salary	1,500
Travel	480
Printing	439
Telephone	276
Legal & Audit	100
Payroll Tax	72
Typing & Mailing	81
Insurance	25
Office Supplies	37
Capital Outlay—Equipment	240
TOTAL DISBURSEMENTS	\$ 7,300
EXCESS OF DISBURSEMENTS OVER RECEIPTS	\$ (610)
FUND BALANCE, OCTOBER 31, 1970	\$10,646

EXHIBIT C

**ARKANSAS RIVER COMPACT ADMINISTRATION
STATEMENT OF RECEIPTS & DISBURSEMENTS WITH BUDGET
FOR BUDGET YEAR JULY 1, 1969 TO JUNE 30, 1970**

	<u>ACTUAL</u>	<u>BUDGET</u>
CASH IN BANK, JULY 1, 1969	\$ 5,310	\$1,000
RECEIPTS:		
Revenue from Assessments:		
Colorado Portion—60%	\$ 4,014	\$4,014
Kansas Portion—40%	2,676	2,676
TOTAL RECEIPTS	\$ 6,690	\$6,690
TOTAL TO ACCOUNT FOR	\$12,000	\$7,690

DISBURSEMENTS:

U. S. Geological Services—Gauging	\$3,100	\$3,100
Secretary Salary	1,500	1,500
Printing	439	700
Travel	467	500
Telephone	283	300
Legal & Audit	200	100
Payroll Tax	108	75
Insurance	25	15
Typing & Mailing	75	100
Office Supplies	37	300
Investigation & Inspection	—	100
Official Publication	—	100
Capital Outlay	240	800
<u>TOTAL DISBURSEMENTS</u>	<u>\$ 6,474</u>	<u>\$7,690</u>
<u>CASH IN BANK, JUNE 30, 1970</u>	<u>\$5,526</u>	<u>\$ --</u>

APPENDIX 'B-1'

ARKANSAS RIVER NEAR PUEBLO, COLORADO

Report-Year ending October 31, 1970
USGS Records — Provisional Subject to Revision
(Colorado State Engineer)

DAY	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.
1	615	422	415	366	194	229	475	2840	3370	1100	1160	696
2	596	456	380	366	163	228	415	2400	2990	1100	1180	664
3	540	456	329	304	207	210	415	2220	2600	940	1160	608
4	504	464	329	303	203	233	871	2260	2430	977	1060	579
5	531	456	339	327	181	233	1240	2580	2360	1130	1040	542
6	530	473	348	303	179	204	1210	2400	2340	1190	1110	542
7	539	372	358	303	170	233	1090	2460	2370	1170	1500	532
8	512	403	388	296	161	323	1130	2540	2520	1650	1400	616
9	512	388	428	303	164	394	1300	2600	2360	1880	939	663
10	566	405	459	289	169	471	1260	2600	2610	1220	722	654
11	613	465	469	283	176	499	1280	2600	2560	1820	680	814
12	595	365	488	289	181	600	1360	2710	2390	1010	652	736
13	565	388	498	311	167	524	1470	2200	2300	915	666	747
14	575	388	477	311	162	496	1640	1650	2010	883	1070	789
15	584	373	446	311	162	550	1690	1390	1690	873	1420	871
16	575	405	425	275	176	523	1590	1530	1590	1030	1260	801
17	556	405	407	234	181	568	1670	1750	1190	1240	1140	756
18	547	405	427	222	181	728	1810	2050	1160	1180	1100	800
19	474	388	406	204	156	606	2010	2830	1150	1120	1030	788
20	414	388	416	193	151	514	2160	3390	1230	1140	958	788
21	464	373	425	187	156	418	2200	3750	1160	1430	920	777
22	483	364	433	210	166	346	2430	3980	1110	1190	1060	787
23	483	364	441	205	180	315	2660	3820	876	1260	1160	754
24	492	372	442	206	171	348	2930	3800	2140	1260	920	711
25	483	405	408	212	155	365	3050	3610	932	1120	992	701
26	415	414	351	212	149	574	3090	3390	804	939	1090	743
27	406	413	344	195	149	1070	3250	3450	950	766	920	773
28	414	412	351	194	164	1070	3390	3520	1070	703	873	742
29	396	438	336	159	159	693	3440	3490	1060	654	826	677
30	405	423	293	194	494	494	3140	3540	1110	625	769	657
31	381	313	313	240	240	2780	2780	1190	1190	928	629	629
TOTAL	15384	12624	12369	7414	5367	14059	58447	83350	55822	34443	30707	21937
sec. ft.	15384	12624	12369	7414	5367	14059	58447	83350	55822	34443	30707	21937
ac. ft.	30510	25040	24530	14710	10650	27890	115900	163300	110700	68320	60910	43510
(a) ac. ft.	0	0	0	0	0	0	0	11873	11564	18052	17832	6438
(b) ac. ft.	30510	25040	24530	14710	10650	27890	104000	153700	92650	50490	54470	43510
(a) Less upstream reservoir and transmountain water. THE YEAR 698,000 acre-feet												
(b) Corrected total ac. ft. CORRECTED 632,200 acre-feet												

APPENDIX 'B-2'

ARKANSAS RIVER AT LAS ANIMAS, COLORADO

Report-Year ending October 31, 1970
U S G S Records - Provisional, Subject to Revision

DAY	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.
1	81	34	69	40	23	81	33	559	647	344	225	296
2	77	33	90	38	24	123	26	509	685	428	126	254
3	77	44	120	110	23	57	26	484	685	392	139	266
4	60	44	150	90	24	60	26	413	676	290	170	302
5	70	54	120	54	24	63	27	420	775	186	139	338
6	63	54	98	44	24	57	25	444	618	139	240	332
7	63	75	80	39	22	70	24	478	527	175	294	364
8	63	114	100	39	22	53	23	378	563	202	230	468
9	70	57	120	39	24	31	21	436	600	202	321	314
10	77	39	150	34	24	30	20	476	484	148	399	144
11	77	51	140	34	24	31	24	527	572	349	266	114
12	124	49	135	49	24	37	24	545	452	385	170	90
13	63	44	130	44	24	37	24	338	428	371	186	73
14	77	47	125	65	24	41	24	284	399	296	308	70
15	63	47	115	41	24	34	25	364	547	260	254	66
16	70	42	92	41	24	36	54	371	326	230	428	66
17	70	51	76	36	24	37	62	314	254	202	406	63
18	60	63	62	26	25	39	58	399	476	180	332	63
19	75	57	51	26	25	42	33	428	656	192	332	63
20	63	51	45	25	25	42	24	350	663	197	420	70
21	41	51	41	25	24	33	21	332	554	175	357	63
22	30	52	40	23	23	45	23	364	436	405	444	60
23	31	47	40	25	24	39	47	332	248	399	460	44
24	29	42	42	25	24	29	47	272	162	420	314	39
25	29	36	39	24	21	26	81	399	477	350	266	47
26	27	36	30	23	20	26	41	628	371	326	364	37
27	27	47	30	23	30	25	57	509	410	350	452	36
28	34	50	29	25	57	22	390	468	413	371	378	37
29	31	58	31	25	47	24	685	545	211	350	350	41
30	27	40	35	60	60	27	600	600	144	350	350	47
31	52	52	40	81	81	775	775	775	248	332	332	30
TOTAL	1749	1561	2465	1107	888	1297	3370	12866	14707	8996	9120	4297
sec. ft.	3470	3100	4890	2200	1760	2570	6680	25520	29170	17840	18090	8520
ac. ft.												

THE YEAR 123,800 acre-feet

APPENDIX 'B-3'

URGATOIRE RIVER NEAR LAS ANIMAS, COLORADO

Report Year ending October 31, 1970
U S G S Records — Provisional, Subject to Revision

DAY	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.
1	61	68	24	37	37	34	34	24	9.0	31	4.4	21
2	79	71	28	30	43	35	14	44	9.5	18	4.2	18
3	76	68	32	25	41	45	12	44	12	12	4.0	20
4	66	62	35	25	42	57	18	37	8.8	12	3.8	18
5	62	66	39	26	39	57	22	26	8.2	8.5	3.6	24
6	61	71	43	40	32	59	16	23	11	7.6	3.4	19
7	58	62	50	45	25	59	12	28	10	6.0	3.2	18
8	52	50	58	49	18	56	11	24	15	8.5	3.0	14
9	49	37	66	52	10	68	8.5	18	12	206	3.1	16
10	49	49	76	48	12	53	11	19	14	181	3.4	41
11	50	46	86	44	24	57	9.0	33	18	46	3.4	44
12	52	50	78	44	37	65	9.0	40	29	22	4.0	32
13	58	59	76	39	38	66	8.5	34	921	12	4.4	38
14	59	59	80	44	39	58	9.5	34	117	9.0	4.8	42
15	57	64	66	43	31	44	10	29	312	9.0	4.4	49
16	53	56	80	44	52	46	14	21	24	7.2	4.8	52
17	52	57	56	45	71	45	14	7.2	18	3.4	5.2	62
18	52	57	56	45	76	74	9.0	7.2	22	4.8	4.8	95
19	48	56	58	52	74	72	14	7.6	22	4.8	4.0	100
20	49	58	56	57	62	56	9.6	7.6	36	4.9	4.0	74
21	50	57	60	57	43	139	12	12	127	4.9	4.0	74
22	70	59	58	52	31	136	35	12	169	5.0	27	76
23	68	59	70	56	17	95	19	66	116	5.1	50	70
24	71	53	80	50	9.9	68	18	19	354	5.2	188	62
25	74	56	72	56	20	33	23	19	393	5.3	101	62
26	72	56	64	45	28	22	23	12	93	5.4	74	64
27	71	57	62	48	35	11	14	11	22	5.4	35	65
28	66	50	60	39	32	9.5	18	8.0	438	5.2	27	70
29	66	34	45	51	51	9.5	37	8.0	266	3.0	45	66
30	66	22	42	38	23	23	45	11	81	4.8	31	70
31	25	25	39	32	32	20	20	44	44	4.6	4.6	70
TOTAL	1817	1695	1773	1237	1139.9	1652.0	536.1	702.4	3776.5	669.5	663.1	1524
sec. ft.	1817	1695	1773	1237	1139.9	1652.0	536.1	702.4	3776.5	669.5	663.1	1524
ac. ft.	3600	3360	3520	2450	2260	3280	1060	1390	7490	1330	1320	3020
												THE YEAR 34,080 acre-ft

APPENDIX 'B-4'

INFLOW INTO JOHN MARTIN RESERVOIR

Report-Year ending October 31, 1970
U S G S Records - Provisional, Subject to Revision

DAY	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT
1	142	102	93	77	60	115	67	583	656	375	229	317
2	156	104	118	68	67	158	40	553	694	446	130	272
3	153	112	152	135	64	102	38	528	697	404	143	286
4	125	106	185	115	66	117	44	450	685	302	174	320
5	132	120	152	80	63	120	49	446	783	194	143	362
6	124	125	141	84	56	116	41	467	629	147	243	351
7	121	137	130	84	47	129	36	406	537	181	297	382
8	115	164	158	88	40	109	34	402	578	210	233	482
9	119	94	186	91	34	99	30	454	612	408	324	330
10	126	88	226	82	36	83	31	495	498	329	402	185
11	127	97	226	78	48	88	33	560	590	395	269	158
12	176	99	213	93	61	102	33	585	481	407	174	122
13	121	103	206	83	62	103	32	372	1350	383	190	111
14	136	106	205	109	63	99	34	318	516	305	313	112
15	120	111	181	84	55	78	35	353	859	269	258	115
16	123	98	152	85	76	82	75	395	393	237	433	118
17	122	109	130	81	95	82	76	335	278	207	411	115
18	112	120	118	71	101	113	67	406	494	183	337	125
19	123	113	109	78	99	114	47	436	678	197	337	158
20	112	109	101	82	87	98	34	358	699	202	424	170
21	91	108	101	82	67	172	33	344	681	180	361	137
22	100	111	98	75	54	181	58	376	605	410	471	136
23	99	106	110	81	41	134	66	398	364	404	510	114
24	100	95	122	75	34	97	65	291	516	425	502	101
25	103	92	111	80	41	59	104	418	870	355	367	109
26	99	92	94	68	48	48	64	640	464	331	438	101
27	98	104	92	71	65	36	71	520	432	355	487	101
28	100	100	89	64	89	32	408	476	851	376	405	107
29	97	92	76	64	98	34	722	553	477	355	395	107
30	93	62	77	77	98	50	645	611	225	355	381	117
31		77	79		113		795		292	337		100
TOTAL	3566	3256	4238	2344	2028	2950	3907	13569	18484	9664	9781	5821
sec. ft.	7070	6460	8410	4650	4020	5850	7750	26910	36660	19170	19400	11550

THE YEAR 157,900 acre-ft.

APPENDIX 'B-5' **CONTENTS OF JOHN MARTIN RESERVOIR**

Report-Year ending October 31, 1970
Corps of Engineers records — Provisional, subject to revision
Midnight contents in acre-feet from capacity table dated Jan. 1, 1969

DAY	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.
1	20814	28879	36578	43758	49479	54433	46985	0	0	0	0	0
2	21112	29103	36700	43954	49652	54796	45709	0	0	0	0	0
3	21462	29356	36884	44184	49791	55051	44415	0	0	0	0	0
4	21813	29667	37160	44513	49964	55379	42942	0	0	0	0	0
5	22142	29979	37344	44778	50069	55635	41489	0	0	0	0	0
6	22422	30263	37560	45076	50208	55964	39899	0	0	0	0	0
7	22754	30577	37745	45309	50347	56221	38302	0	0	0	0	338
8	22985	30720	37930	45575	50522	56442	36456	0	0	0	0	788
9	23295	30950	38178	45842	50522	56664	34555	0	0	0	0	1105
10	23554	31237	38365	46043	50487	56849	32573	0	0	0	0	1416
11	23789	31440	38489	46244	50556	57034	30491	0	0	0	0	1558
12	24182	31671	38738	46513	50696	57034	28459	0	0	0	0	1577
13	24471	31932	38957	46614	50731	57034	26370	0	0	0	0	1595
14	24762	32223	39207	46816	50801	57182	24392	0	0	0	0	1659
15	25001	32544	39427	47018	50942	57331	22320	0	0	0	0	1764
16	25294	32808	39647	47154	51047	57331	20396	0	0	0	0	1819
17	25534	33102	39899	47391	51328	57591	18503	0	0	0	0	1860
18	25776	33337	40120	47526	51610	57703	16694	0	0	0	0	1981
19	26018	33633	40341	47730	51786	57852	14930	0	0	0	0	2092
20	26261	33929	40564	47934	51928	57182	13082	0	0	0	0	2192
21	26533	34226	40818	48070	52141	56812	11263	0	0	0	0	2271
22	26778	34525	41105	48275	52283	56184	9829	0	0	0	0	2369
23	27023	34734	41393	48549	52389	55708	7924	0	0	0	0	2409
24	27242	34974	41778	48618	52567	55160	6257	0	0	0	0	2442
25	27490	35184	42068	48693	52638	54361	4496	0	0	0	0	2475
26	27738	35455	42293	49100	52816	53532	2647	0	0	0	0	2501
27	27987	35697	42552	49168	53066	52318	839	0	0	0	0	2527
28	28181	35939	42845	49272	53245	50836	0	0	0	0	0	2570
29	28403	36182	43072	49272	53496	49375	0	0	0	0	0	2621
30	28627	36243	43267	49272	53783	48207	0	0	0	0	0	2692
31		36426	43496		54180		0	0	0	0	0	

APPENDIX 'B-6'

OUTFLOW FROM JOHN MARTIN RESERVOIR

Report-Year ending October 31, 1970
U S G S Records - Provisional, Subject to Revision

DAY	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.
1	5.7	2.8	2.8	2.8	2.8	3.8	740	704	629	466	328	329
2	4.8	2.8	2.6	3.3	2.8	3.8	763	571	603	481	276	294
3	5.2	2.8	2.8	3.1	2.8	3.8	767	541	638	528	244	291
4	4.1	2.8	2.8	3.1	3.1	4.1	806	503	639	417	263	304
5	4.3	2.6	2.6	3.1	3.3	4.3	839	450	879	327	304	335
6	4.3	2.8	2.8	3.1	3.3	4.1	878	468	672	270	293	387
7	4.1	3.1	2.6	3.1	3.6	3.6	974	473	551	233	358	397
8	4.1	2.8	2.6	3.1	3.8	3.8	1020	466	520	271	358	168
9	3.8	2.8	2.6	3.1	2.4	3.8	1030	443	617	263	334	9.9
10	3.6	2.8	2.6	3.1	4.5	19	1050	457	559	478	413	7.1
11	3.6	2.8	2.6	3.1	3.7	33	1100	498	655	325	409	5.5
12	3.3	3.1	2.6	2.8	3.1	34	1100	594	624	410	356	113
13	3.3	2.8	2.6	3.1	3.1	34	1080	508	1290	430	348	182
14	3.1	2.8	2.8	3.1	3.1	38	1070	463	794	385	384	172
15	3.1	2.8	2.8	3.1	3.3	45	1070	429	655	308	378	163
16	3.1	3.1	2.8	3.1	2.8	50	1060	430	468	276	411	157
17	3.3	3.1	2.8	3.1	3.8	75	1020	415	312	242	550	157
18	3.3	3.1	3.6	3.1	3.3	100	1000	404	330	227	476	152
19	2.8	3.1	3.1	3.8	3.3	92	979	375	527	229	430	147
20	2.8	3.1	2.8	3.1	3.8	417	985	405	673	266	405	144
21	2.8	3.1	2.8	2.8	3.8	431	979	436	541	266	411	130
22	2.6	3.1	2.8	2.8	3.8	410	967	473	636	521	415	121
23	2.6	3.1	2.8	2.8	3.8	413	953	494	404	638	532	122
24	3.1	3.1	2.8	2.8	4.1	419	945	474	413	584	506	122
25	2.8	3.3	2.8	2.8	3.8	462	971	516	687	568	492	125
26	2.8	3.1	2.8	2.8	3.6	501	952	599	670	476	423	128
27	2.8	3.1	2.8	2.8	3.8	662	950	636	533	400	488	125
28	2.8	3.1	3.1	2.8	3.8	767	940	599	568	402	423	126
29	2.6	2.8	3.1	3.1	3.8	770	795	624	686	411	385	128
30	2.6	2.8	3.1	3.1	3.8	785	738	680	399	379	371	130
31	2.8	2.8	3.1	3.1	3.8	751	751	680	350	368	371	119
TOTAL												
sec.ft.	103.2	91.3	87.1	84.7	341.6	6592.1	29272	15128	18518	11845	11764	5290.5
ac.ft.	205	181	173	168	678	13080	58060	30010	36730	23490	23330	10490

THE YEAR 196,600 acre-ft.

APPENDIX 'B-7'

ARKANSAS RIVER AT LAMAR, COLORADO

Report-Year ending October 31, 1970
U S G S Records - Provisional, Subject to Revision

DAY	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT
1	5.7	15	31	19	12	23	340	352	15	11	5.7	7.9
2	5.7	15	30	19	11	25	307	198	6.7	9.2	7.8	7.9
3	7.3	15	29	20	11	27	300	191	9.2	9.2	36	7.9
4	11	15	27	20	11	30	289	149	13	8.5	28	7.3
5	13	15	26	18	11	32	319	86	142	9.2	31	16
6	13	11	25	19	11	30	319	72	185	6.7	30	11
7	13	11	24	19	11	25	370	72	23	6.2	32	45
8	12	11	23	19	11	24	436	63	7.3	6.2	27	99
9	12	8.5	28	18	12	13	444	56	11	6.2	27	9.2
10	11	16	29	20	12	9.2	450	25	5.2	6.2	4.2	7.3
11	12	31	28	20	12	9.9	482	44	24	4.2	3.4	7.9
12	13	29	27	20	12	9.2	506	133	542	5.2	2.4	6.7
13	12	31	26	21	13	12	489	154	596	7.9	4.7	6.7
14	12	36	25	20	13	11	475	77	608	4.7	3.8	6.7
15	11	32	24	20	13	7.3	482	57	358	5.2	3.8	6.7
16	11	32	22	18	13	6.2	489	43	365	5.7	4.7	6.2
17	20	31	23	17	12	7.9	478	18	84	7.9	58	6.7
18	20	29	20	18	13	19	472	7.9	20	6.7	6.2	7.3
19	25	29	19	19	14	30	436	7.3	33	7.9	4.7	6.7
20	15	34	18	17	14	94	433	7.3	408	9.9	4.2	6.7
21	17	35	19	17	13	334	430	7.9	282	7.9	5.7	7.3
22	16	37	20	17	14	310	436	9.2	266	291	7.9	7.3
23	15	35	21	16	15	305	419	9.9	122	134	37	7.9
24	15	31	21	18	15	310	412	9.2	48	24	22	7.9
25	15	30	22	19	16	330	384	7.3	92	11	68	6.7
26	15	30	21	18	17	350	408	7.9	289	7.3	21	7.3
27	13	29	20	16	18	328	388	39	88	6.2	52	7.3
28	16	28	20	14	19	305	430	5.2	35	6.7	66	6.7
29	12	28	19	20	313	408	5.7	277	6.7	22	5.7	6.2
30	12	27	18	21	331	334	18	35	6.2	7.9	6.2	6.2
31	29	29	19	22	22	272	272	13	13	6.2	6.2	6.2
TOTAL												
sec.ft.	400.7	785.5	724	516	432	3660.7	12637	1931.8	5002.4	651.1	613.3	363.3
ac.ft.	795	1560	1440	1020	857	7260	25070	3830	9920	1290	1220	721
THE YEAR 54,980 acre-ft.												

APPENDIX 'B-8'

ARKANSAS RIVER AT THE COLORADO-KANSAS STATELINE

Report-Year ending October 31, 1970
U S G S Records -- Provisional, Subject to Revision

DAY	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.
1	168	139	108	125	128	156	412	515	64	224	138	292
2	172	146	90	113	128	153	425	577	75	178	124	263
3	168	153	82	113	136	153	377	500	66	140	105	192
4	168	160	75	125	136	153	371	423	89	112	87	164
5	160	172	70	132	136	160	340	356	95	88	84	172
6	160	176	75	132	128	168	326	348	148	71	84	160
7	160	164	78	136	125	168	338	303	147	62	74	156
8	153	160	70	136	125	156	373	281	100	68	72	220
9	146	153	80	128	119	142	414	293	62	65	79	303
10	146	156	90	132	116	132	422	273	65	67	80	213
11	142	164	90	139	116	136	430	232	66	69	99	150
12	150	156	91	136	116	122	461	246	79	79	96	122
13	150	150	92	132	116	125	518	319	386	81	97	119
14	136	142	93	139	119	128	498	277	619	106	95	122
15	146	139	94	136	116	132	483	233	583	98	93	153
16	160	142	95	136	122	146	504	204	413	97	94	153
17	153	153	96	150	136	150	505	179	357	92	106	168
18	150	160	97	136	139	160	526	140	239	56	122	204
19	139	164	97	125	142	164	504	117	171	53	128	188
20	139	150	107	119	142	168	477	103	407	153	130	180
21	142	150	118	113	142	212	487	94	691	137	158	188
22	146	156	128	132	139	262	519	83	458	170	182	180
23	146	164	142	128	128	315	520	87	411	168	219	168
24	142	164	160	122	128	295	531	92	345	193	260	146
25	136	156	164	128	128	295	536	83	302	240	266	125
26	136	188	156	136	119	331	514	70	355	249	320	136
27	132	208	160	139	128	363	517	75	457	223	334	153
28	132	204	156	132	136	377	525	94	356	214	361	168
29	132	196	142	132	150	366	565	107	334	185	366	172
30	136	116	139	153	153	365	512	85	385	164	328	176
31	113	113	136	156	156	505	505	161	283	161	157	157
TOTAL	4446	4914	3371	3650	4048	6153	14435	6789	8579	4063	4801	5463
sec. ft.	8820	9750	6690	7240	8030	12200	28630	13470	17020	8060	9520	10840

THE YEAR 140,300 ac.-ft.
The daily discharges are the sum of the flows of the Arkansas River near Coolidge, Kansas, and the Frontier ditch.

DEMANDS BY COLORADO FOR RESERVOIR WATER

Units in Cubic Feet Per Second

Close: 3:30 P.M.

DEMANDS BY COLORADO FOR RIVER FLOW OPERATION OF RESERVOIR

[illegible]

APPENDIX 'B-11'

DEMANDS BY KANSAS FOR RESERVOIR WATER

REPORT YEAR ENDING OCTOBER 31, 1970
Data Source: Kansas State Board of Agriculture and Orders by the Secretary
of the Arkansas River Compact Administration
(Provisional Subject to Revision)
Units in Cubic Feet Per Second

DAY	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.
1							350					
2							350					
3							350					
4							350					
5							350					
6							350					
7							382					
8							400					
9							400					
10							400					
11							465					
12							500					
13							500					
14							500					
15							500					
16							500					
17							466					
18							400					
19							400					
20							400					
21						Call at 8:30 A.M.	226					
22							285					
23							250					
24							250					
25							315					
26							350					
27							350					
28							350					
29							350					
30							350					
31							350					
Totals							3326					
Sec. Ft.							11443					
Acres Ft.							6597					
												The Year 29,294

APPENDIX 'B-12'

STATELINE FLOW ON DAYS OF KANSAS DEMAND*

Report-Year ending October 31, 1970
U S G S Records — Provisional, Subject to Revision

DAY	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.
1							412					
2							425					
3							377					
4							371					
5							340					
6							326					
7							338					
8							373					
9							414					
10							422					
11							430					
12							461					
13							518					
14							498					
15							483					
16							504					
17							505					
18							526					
19							504					
20							477					
21							487					
22							519					
23							520					
24							315					
25							295					
26							331					
27							363					
28							377					
29							366					
30							365					
31							505					
TOTAL												
Sec. ft.							2707					14435
AC. Ft.							5370					28630

THE YEAR 34,000
*Three days' time is allowed for water released from John Martin Reservoir to reach State line.

APPENDIX 'B-13'

DIVERSIONS BY DITCHES IN COLORADO

DISTRICTS 14 AND 17

DIVISION #2

Report Year Ending October 31, 1970
Source of Information: Water Commissioner's Special Reports to Division Engineer
Reservoir Water is that from Upstream Reservoirs above Pueblo, Colorado
Units in Acre Feet

NAME OF DITCH	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	YEAR
Bessemer (Riv.)	769	0	0	1386	4170	4601	10732	13268	11608	5138	6270	8338	66280
Res. or Imported	0	0	0	0	0	0	1083	377	645	2013	0	0	4119
Total: Bessemer	769	0	0	1386	4170	4601	11815	13645	12254	7151	6270	8338	70399
West Pueblo	0	0	0	0	0	151	583	484	292	176	188	157	2031
Booth-Orchard Grove	888	133	0	0	363	823	1234	1305	1186	1305	1152	940	9329
Excelsior	0	0	0	0	0	73	2449	2691	1890	123	123	1297	8646
Collier	0	0	0	0	0	48	492	476	349	48	64	492	1969
Colorado Canal (Riv.)	7403	0	0	547	0	2510	10240	15085	1176	815	0	0	46753
Res. or Imported	0	0	0	0	0	0	10240	10115	16074	13635	6028	0	56092
Total: Colorado Canal	7403	0	0	547	0	2510	20480	25200	17250	14450	6028	0	102845
Highline Canal (Riv.)	2871	2395	1545	4097	4597	5572	12554	18497	13865	6429	6342	3464	82228
Res. or Imported	0	0	0	0	0	0	1400	1222	1400	2687	284	0	6993
Total: Highline	2871	2395	1545	4097	4597	5572	13954	19719	15265	9116	6626	3464	89221
Oxford Farmers (Riv.)	720	589	292	559	1866	3004	4400	5047	5400	2790	2431	1184	28282
Res. or Imported	0	0	0	0	0	0	0	0	0	0	0	0	0
Total: Oxford Farmers	720	589	292	559	1866	3004	4400	5047	5400	2790	2431	1184	28282
Total Dist. No. 14 (Riv.)	12651	3117	1837	6589	10996	16782	51661	56853	35766	16824	16570	15872	245518
Otero Canal	0	1844	496	0	0	125	2651	3490	1571	276	161	2195	12809
Catlin Canal (Riv.)	1015	228	252	3550	7315	10173	14000	16382	15231	14748	9629	6381	98904
Res. or Imported	0	0	0	0	0	0	0	0	2240	1160	0	0	1384
Total: Catlin Canal	1015	228	252	3550	7315	10173	14000	16382	15455	15908	9629	6381	100288
Holbrook Canal	5544	4729	2441	4694	0	619	11634	13730	5818	980	2033	3223	55445
Rocky Ford Canal	2683	2094	1388	1610	2824	3462	5507	5683	5078	5558	4212	2776	42875
Fort Lyon Sigs. Canal	14248	8218	17558	3183	0	0	2604	10361	863	1140	0	13573	71748
Fort Lyon Canal	1795	9844	4190	19846	19550	25743	42628	38953	42224	20518	21151	9326	259808
Kicking Bird Canal	22606	22251	13169	3270	0	1031	3429	14161	1987	79	0	23225	105208
Total: Ft. Lyon & K.B.	24401	32095	17359	23116	19550	30774	46057	53154	44211	20597	21151	32551	365016
Las Animas Consol.	837	1287	922	462	2261	2431	6784	6998	6526	5362	4025	3026	40921
Total District No. 17	48728	50495	40416	36615	31950	47584	89237	109798	79298	48661	41211	63725	687718
Total Dist. No. 14 & No. 17	61379	53612	42253	43204	42946	64366	140898	166651	115064	65485	57781	79597	933236
Res. or Imported	0	0	0	0	0	0	12723	11714	18344	19495	6312	0	68588
GRAND TOTAL	61379	53612	42253	43204	42946	64366	153621	178365	133408	84980	64093	79597	1001824

APPENDIX 'B-14'

DIVERSIONS BY DITCHES IN COLORADO WATER DISTRICT 67 DIVISION #2

SOURCE OF INFORMATION: REPORT YEAR ENDING OCTOBER 31, 1970
1969 1970
WATER COMMISSIONERS SPECIAL REPORTS TO DIVISION ENGINEER

Units in Acre Feet

Name of Ditch	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Compact Year
Fort Bent Canal	0	0	0	0	171	853	3361	3024	2939	2516	1836	494	15,194
Keesee Ditch	0	0	0	0	0	284	690	531	793	664	692	525	4,179
Amity Canal	0	0	0	0	0	1997	20520	17482	16784	14744	14432	7839	93,798
Lamar Canal	387	0	0	80	573	2403	6064	7095	8882	5727	5856	3450	40,517
Hyde Ditch	0	0	0	0	49	101	313	331	381	361	309	323	2,168
Marvel Canal	0	0	0	0	0	0	0	0	0	0	0	0	0
X-Y & Graham Canals	0	0	0	0	0	270	1975	1259	851	633	890	504	6,382
Buffalo Canal	0	0	0	0	0	769	2826	2887	4045	3282	2437	1896	18,142
Sisson-Stubbs Canal	0	0	0	0	0	0	0	0	0	0	0	0	0
Out of Operation	387	0	0	80	793	6677	35749	32609	34675	27927	26452	15031	180,380
GRAND TOTAL	387	0	0	80	793	6677	35749	32609	34675	27927	26452	15031	180,380

APPENDIX 'B-15'

DIVERSIONS BY DITCHES IN KANSAS

Report Year Ending October 31, 1970
Frontier Ditch, U.S.G.S. Records
Other Ditches, Kansas Division of Water Resources Records
Acre Feet

NAME OF DITCH	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	YEAR
Frontier Ditch	0	0	0	0	0	361	2920	1860	2840	2580	1710	171	* 12442
Alamo Canal	0	0	0	0	0	0	0	0	0	0	0	0	0
Ft. Aubrey Canal	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Stateline To Syracuse	0	0	0	0	0	361	2920	1860	2840	2580	1710	171	12442
Amazon Canal	0	0	0	0	0	5298	11151	2180	2598	2182	1020	2063	26492
Great Eastern Canal	0	0	0	2003	4721	0	1845	4818	5361	0	3592	5683	28023
South Side Ditch	0	0	0	3531	0	155	6595	873	2448	224	2045	1757	17628
Farmers Ditch	0	0	0	0	0	1335	5447	3849	1680	3235	820	154	16520
Garden City Canal	0	0	0	0	0	0	415	448	0	560	0	0	1423
Total Syracuse To Garden City	0	0	0	5534	4721	6788	25453	12168	12087	6201	7477	9657	90086
TOTAL STATELINE TO GARDEN CITY	0	0	0	5534	4721	7149	28373	14028	14927	8781	9187	9828	102528

*5,330 Acre-Feet returned directly to river.

APPENDIX 'B-16'

SUMMARY TABULATION

	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	YEAR	FROM APP. NO.
Arkansas River at Las Animas, Colo.	3470	3100	4890	2200	1760	2570	6680	25520	29170	17840	18090	8520	123800	B-2
Purgatoire River near Las Animas, Colo.	3600	3360	3520	2450	2260	3280	1060	1390	7490	1330	1320	3020	34080	B-3
Inflow to John Martin Reservoir	7070	6460	8410	4650	4020	5850	7750	26910	36660	19170	19400	11550	157900	B-4*
Reservoir contents at end of month	28627	36426	43496	49272	54180	48207	0	0	0	0	0	0	2692	B-5
Net change in reservoir storage	+8207	+7799	+7070	+5776	+4908	-5973	-48207	0	0	0	0	0	+2692	B-5
Outflow from John Martin Reservoir	205	181	173	168	678	13080	58060	30010	36730	23490	23330	10490	196600	B-6
Diversions in District 67, Colo.	387	0	0	80	793	6677	35749	32609	34675	27927	26452	15031	180380	B-14
Flow at Colorado- Kansas Stateline	8820	9750	6690	7240	8030	12200	28630	13470	17020	8060	9520	10840	140300	B-8
Diversions in Kansas	0	0	0	5534	4721	7149	28373	14028	14927	8781	9187	5828	102528	B-15

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

APPENDIX "C"

BE IT RESOLVED by the Arkansas River Compact Administration in annual meeting on December 9, 1970:

WHEREAS, the members of the Arkansas River Compact Administration deem it their responsibility to recognize the outstanding service of Wilbur D. Heckler who served from his appointment by the President of the United States on January 25, 1967 until his resignation became effective May 20, 1970 as Chairman of the Administration and Representative of the United States; and

WHEREAS, his active interest in the obligation of the Administration to follow the tenets of the Compact created a harmonious atmosphere between the members and residents of the Arkansas Valley; and

WHEREAS, his vigorous efforts in performing the duties of Chairman and Representative of the United States shall be greatly missed by the Compact Administration;

NOW, THEREFORE, BE IT RESOLVED that deep regret is hereby expressed at the resignation of Wilbur D. Heckler in that the States of Colorado and Kansas will be losing the services of an able and devoted public servant and that each member of this Administration extends best wishes for good health and happiness; and

BE IT FURTHER RESOLVED that this resolution be in the records of this Administration and that the secretary be instructed to mail a copy to Mr. Heckler.

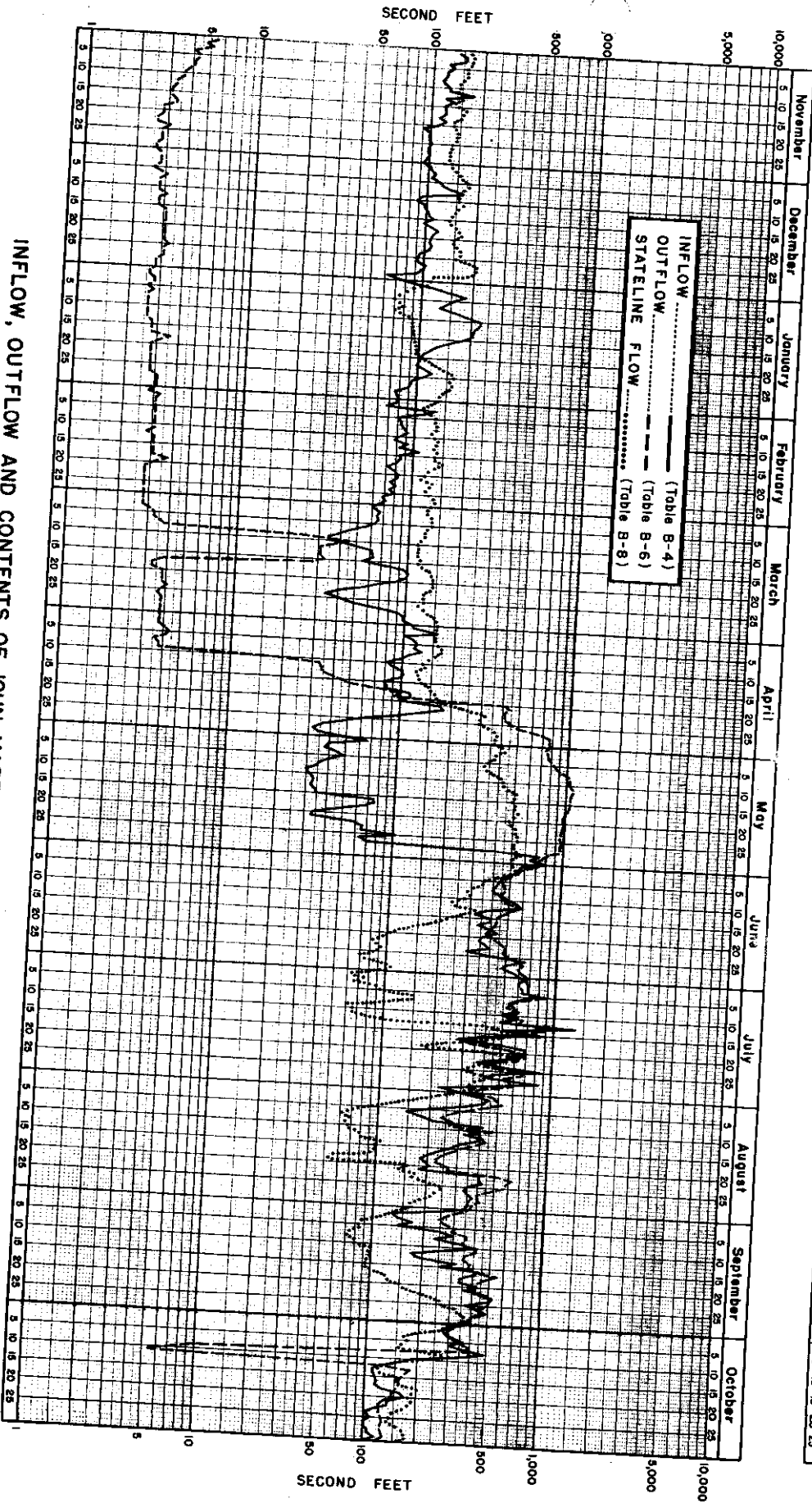
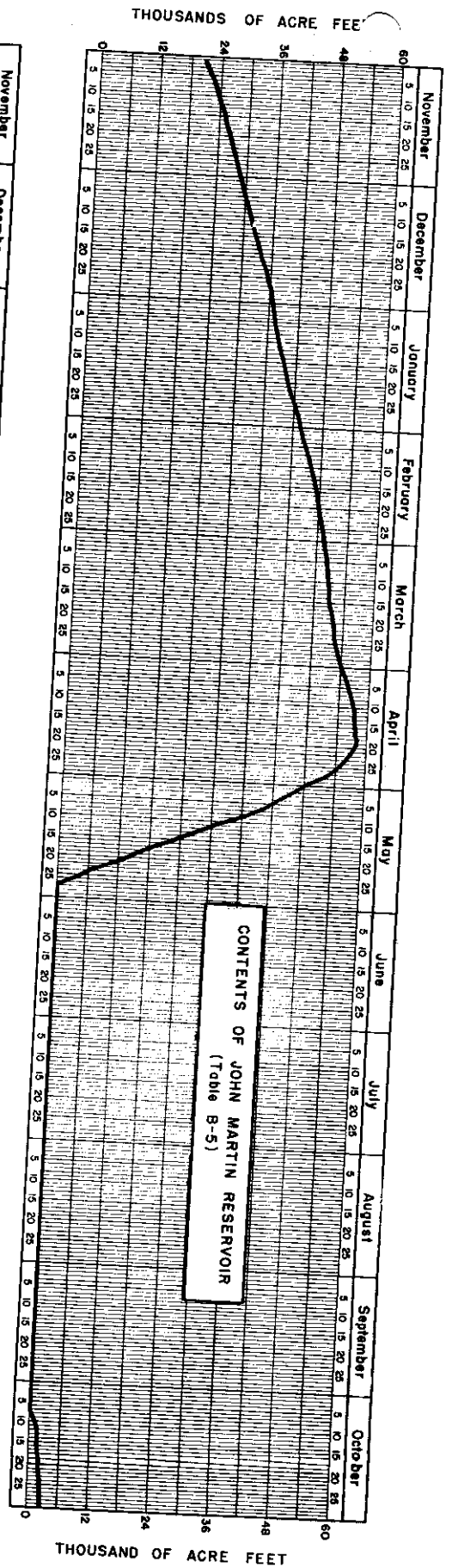
APPENDIX "D"

BE IT RESOLVED by the Arkansas River Compact Administration in annual meeting on December 9, 1970:

WHEREAS, the members of the Arkansas River Compact Administration realize the gratitude that they and the public in general should feel for past members and wish to acknowledge the same through the permanent records of the Administration;

NOW, THEREFORE, BE IT RESOLVED that this Administration does hereby heartily commend outgoing member, Ernest Hofmeister, for the service which he so freely rendered; and

BE IT FURTHER RESOLVED that this resolution be in the records of this Administration and that the secretary be instructed to mail a copy to Mr. Hofmeister.



INFLOW, OUTFLOW AND CONTENTS OF JOHN MARTIN RESERVOIR AND STATELINE FLOW

Report Year, November 1, 1969 - October 31, 1970