INTRODUCTORY STATEMENT

ANNUAL DIVISION ENGINEERS REPORT IRRIGATION DIVISION NO. 2

1974

IRRIGATION DIVISION NUMBER 2 CONSISTS OF ALL LANDS IRRIGATED FROM DITCHES AND CANALS DIVERTING WATER FROM THE ARKANSAS RIVER AND ITS TRIBUTARIES. THE DIVISION IS COMPOSED OF ELEVEN WATER DISTRICTS (10,11,12,13,14,15,16,17,18,19,66 and 67) COMPRISING THE COUNTIES OF EL PASO, CHAFFEE, LAKE, FREMONT, CUSTER, PUEBLO, PARK, LAS ANIMAS, TELLER, CROWLEY, OTERO, BENT, PROWERS, BACA AND KIOWA.

THE AREA THAT IS ENCOMPASSED BY IRRIGATION DIVISION NUMBER 2 MAY BE BEST DESCRIBED BY THE FOLLOWING SUMMARIZED TABLES.

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Comments:

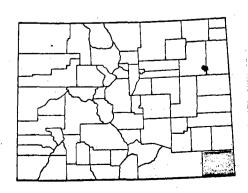
Division 2 suffered the loss of the services of the Division Engineer for the water year ending in the death of Rudy Styduhar in August. Everyone has been most helpful during this most difficult period.

No continuity of administration could have been maintained without the unselfish and unrewarded efforts of the entire staff of Division 2; especially the Hydrographers, and specifically Jim Kasic, who has my eternal gratitude.

The problems of administration have been greatly increased by the coming on line of the Pueblo Reservoir, part of the more than 500 million dollar Frying-Pan project. The Bureau of Reclamation does not readily accept administration by State agencies, but we have established control in this case and hopefully, will be able to maintain such influence, as we are probably the main voice for the water users with the Bureau.

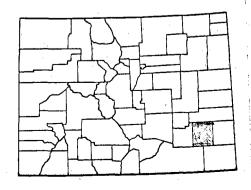
BACA COUNTY

MAJOR CITY	Springfield
1970 POPULATION	5,516
URBAN POPULATION	No City over 2,500
RURAL POPULATION	5,516
COUNTY AREA	2,565 Sq. Miles
TERRAIN	Plains
ELEVATION (MAJOR CITY)	4,356
MAJOR STREAM	Carrizo
MAJOR TRIBUTARY	None
MAJOR WATER USE	Irrigation
IRRIGATED ACRES	56,910
AVERAGE GROWING SEASON	169 Days
ANNUAL MEAN TEMPERATURE	52.20
AVERAGE ANNUAL RAINFALL	14.73 Inches
AVERAGE ANNUAL SNOWFALL	27.7 Inches
MAJOR SOURCE INCOME	Agriculture
NUMBER OF FARMS	750
WATER RESOURCE PROJECTS	Underground Water Dist.
LAND OWNERSHIP PRIVATE FEDERAL STATE COUNTY AND MUNICIPAL	1,736,612 Acres 205,500 Acres 42,928 Acres 86 Acres



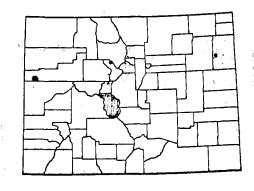
BENT COUNTY

MAJOR CITY	Las Animas
•	6,343
1970 POPULATION	0.055
URBAN POPULATION	2,955
RURAL POPULATION	3,388
COUNTY AREA	1,517 Sq. Miles
TERRAIN	Plains
ELEVATION (MAJOR CITY)	3,901
MAJOR STREAM	Arkansas
MAJOR TRIBUTARY	Purgatoire
MAJOR WATER USE	Irrigation
IRRIGATED ACRES	45,292
AVERAGE GROWING SEASON	158 Days
ANNUAL MEAN TEMPERATURE	51.3°
AVERAGE ANNUAL RAINFALL	12.25 Inches
AVERAGE ANNUAL SNOWFALL	21.0 Inches
MAJOR SOURCE INCOME	Agriculture
NUMBER OF FARMS	450
WATER RESOURCE PROJECTS	Frying-Pan
LAND OWNERSHIP PRIVATE FEDERAL STATE COUNTY AND MUNICIPAL	939,722 Acres 10,233 Acres 142,673 Acres 147 Acres



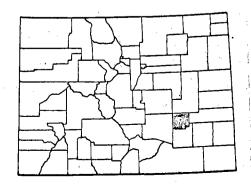
CHAFFEE COUNTY

MAJOR CITY	Salida
1970 POPULATION	9,663
URBAN POPULATION	4,322
RURAL POPULATION	5,341
COUNTY AREA	1,039 Sq. Miles
TERRAIN	Mountainous
ELEVATION (MAJOR CITY)	7.036
MAJOR STREAM	Arkansas
MAJOR TRIBUTARY	South Arkansas
MAJOR WATER USE	Irrigati o n
IRRIGATED ACRES	16,216
AVERAGE GROWING SEASON	112 days
ANNUAL MEAN TEMPERATURE	46.3
AVERAGE ANNUAL RAINFALL	10.87 Inches
AVERAGE ANNUAL SNOWFALL	46.2 Inches
MAJOR SOURCE INCOME	Agriculture
NUMBER OF FARMS	170
WATER RESOURCE PROJECTS	Frying-Pan
LAND OWNERSHIP PRIVATE FEDERAL STATE COUNTY AND MUNICIPAL	128,736 Acres 502,651 Acres 20,103 Acres 3,511 Acres



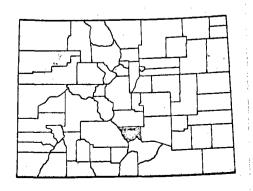
CROWLEY COUNTY

MAJOR CITY	Ordway
1970 POPULATION	2,947
URBAN POPULATION	No City Over 2,500
RURAL POPULATION	2,947
COUNTY AREA	803 Sq. Miles
TERRAIN	Plains
ELEVATION (MAJOR CITY)	4,312
MAJOR STREAM	Horse Creek
MAJOR TRIBUTARY	None
MAJOR WATER USE	Irrigation
IRRIGATED ACRES	25,010
AVERAGE GROWING SEASON	162 Days
ANNUAL MEAN TEMPERATURE	51.4
AVERAGE ANNUAL RAINFALL	12.31 Inches
AVERAGE ANNUAL SNOWFALL	21.2 Inches
MAJOR SOURCE INCOME	Agriculture
NUMBER OF FARMS	400
WATER RESOURCE PROJECTS	Frying-Pan
LAND OWNERSHIP	
PRIVATE	531,034 Acres
FEDERAL	5,054 Acres
STATE	52,711 Acres
COUNTY AND MUNICIPAL	897 Acres



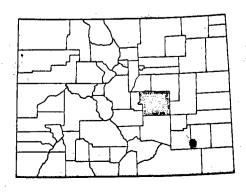
CUSTER COUNTY

MAJOR CITY	Westcliffe
	1,028
1970 POPULATION	2 500
URBAN POPULATION	No City Over 2,500
RURAL POPULATION	1,028
COUNTY AREA	737 Sq. Miles
TERRAIN	Mountain Valley
ELEVATION (MAJOR CITY)	7,888
MAJOR STREAM	Grape
MAJOR TRIBUTARY	Texas
MAJOR WATER USE	Irrigation
IRRIGATED ACRES	15,930
AVERAGE GROWING SEASON	86 Days
ANNUAL MEAN TEMPERATURE	43.7
AVERAGE ANNUAL RAINFALL	16.47 Inches
AVERAGE ANNUAL SNOWFALL	88.1 Inches
MAJOR SOURCE INCOME	Agriculture
NUMBER OF FARMS	180
WATER RESOURCE PROJECTS	U.S.G.S. Underground Study
LAND OWNERSHIP	
PRIVATE	298,001 Acres
FEDERAL	186,695 Acres
STATE	11,989 Acres
COUNTY AND MUNICIPAL	452 Acres



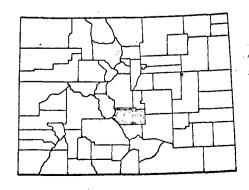
EL PASO COUNTY

MAJOR CITY	Colorado Springs
1970 POPULATION	229,113
URBAN POPULATION	200,145
RURAL POPULATION	27,968
COUNTY AREA	2,158 Sq. Miles
TERRAIN	Foothills
ELEVATION (MAJOR CITY)	6,012
MAJOR STREAM	Fountain
MAJOR TRIBUTARY	Monument
MAJOR WATER USE	Commercial & Irrigation
IRRIGATED ACRES	13,630
AVERAGE GROWING SEASON	148 Days
ANNUAL MEAN TEMPERATURE	48.0°
AVERAGE ANNUAL RAINFALL	14.49 Inches
AVERAGE ANNUAL SNOWFALL	35.0 Inches
MAJOR SOURCE INCOME	Military, Manufacturing
NUMBER OF FARMS	750
WATER RESOURCE PROJECTS	Blue River; Frying- Pan; Homestake
LAND OWNERSHIP PRIVATE FEDERAL STATE COUNTY AND MUNICIPAL	981,504 Acres 187,866 Acres 192,482 Acres 14,839 Acres



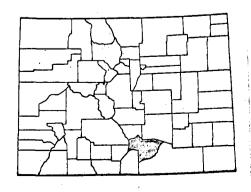
FREMONT COUNTY

MAJOR CITY	Canon City
	20,220
1970 POPULATION	12.017
URBAN POPULATION	11,917
RURAL POPULATION	8,303
COUNTY AREA	1,562 Sq. Miles
TERRAIN	Foothills
ELEVATION (MAJOR CITY)	5,332
MAJOR STREAM	Arkansa
MAJOR TRIBUTARY	Grape
MAJOR WATER USE	[rrigati n n
IRRIGATED ACRES	14,930
AVERAGE GROWING SEASON	164 Days
ANNUAL MEAN TEMPERATURE	54.1°
AVERAGE ANNUAL RAINFALL	12.66 Inches
	35.6 Inches
AVERAGE ANNUAL SNOWFALL	Agriculture, Industry
MAJOR SOURCE INCOME	421
NUMBER OF FARMS	Frying Pan
WATER RESOURCE PROJECTS	
LAND OWNERSHIP	522 202 haves
PRIVATE	523,202 Acres 441,445 Acres
FEDERAL	65,326 Acres
STATE COUNTY AND MUNICIPAL	7,785 Acres



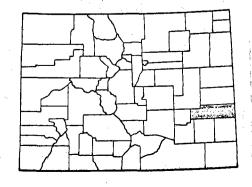
HUERFANO COUNTY

MAJOR CITY	Walsenburg
1970 POPULATION	6,410
URBAN POPULATION	4,227
RURAL POPULATION	2,133
,	1,578 Sq. Miles
COUNTY AREA	Mesa, Tableland
TERRAIN (VII TOP CITIVA)	6,185
ELEVATION (MAJOR CITY)	Huerfano
MAJOR STREAM	Cuchara
MAJOR TRIBUTARY	Irrigati n n
MAJOR WATER USE	
IRRIGATED ACRES	11,453
AVERAGE GROWING SEASON	151 Days
ANNUAL MEAN TEMPERATURE	50 . 2 ⁰
AVERAGE ANNUAL RAINFALL	14.13 Inches
AVERAGE ANNUAL SNOWFALL	69.0 Inches
MAJOR SOURCE INCOME	Agriculture
NUMBER OF FARMS	280
WATER RESOURCE PROJECTS	None
LAND OWNERSHIP PRIVATE	747,000 Acres
FEDERAL	211,670 Acres
STATE COUNTY AND MUNICIPAL	43,525 Acres 320 Acres



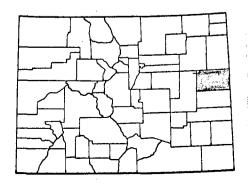
KIOWA COUNTY

MAJOR CITY	Eads
1970 POPULATION	2,006
URBAN POPULATION	No City over 2,500
RURAL POPULATION	2,006
COUNTY AREA	1,792 Sq. Miles
TERRAIN	Plains
ELEVATION (MAJOR CITY)	4,213
MAJOR STREAM	Big Sandy
MAJOR TRIBUTARY	None
MAJOR WATER USE	Irrigation
IRRIGATED ACRES	5,127
AVERAGE GROWING SEASON	156 Days
ANNUAL MEAN TEMPERATURE	51.0°
AVERAGE ANNUAL RAINFALL	13.78 Inches
AVERAGE ANNUAL SNOWFALL	22.3 Inches
MAJOR SOURCE INCOME	Agriculture
NUMBER OF FARMS	350
WATER RESOURCE PROJECTS	None
LAND OWNERSHIP PRIVATE FEDERAL STATE COUNTY AND MUNICIPAL	1,413,911 Acres 3,975 Acres 70,893 Acres 365 Acres



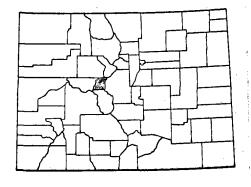
KIT CARSON COUNTY

MAJOR CITY	Burlington
1970 POPULATION	7,379
URBAN POPULATION	2,784
RURAL POPULATION	4,595
COUNTY AREA	2,171 Sq. Miles
TERRAIN	Plains
ELEVATION (MAJOR CITY)	4,163
MAJOR STREAM	Republican
MAJOR TRIBUTARY	None
MAJOR WATER USE	Irrigation
IRRIGATED ACRES	56,576
AVERAGE GROWING SEASON	154 Days
ANNUAL MEAN TEMPERATURE	50.3
AVERAGE ANNUAL RAINFALL	16.35 Inches
AVERAGE ANNUAL SNOWFALL	22.7 Inches
MAJOR SOURCE INCOME	Agriculture
NUMBER OF FARMS	840
WATER RESOURCE PROJECTS	None
LAND OWNERSHIP PRIVATE FEDERAL STATE COUNTY AND MUNICIPAL	1,324,600 Acres 292 Acres 56,486 Acres 985 Acres



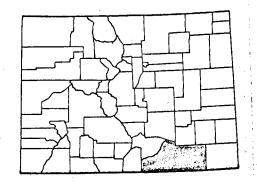
LAKE COUNTY

MAJOR CITY	Leadville
1970 POPULATION	8,138
URBAN POPULATION	4,265
RURAL POPULATION	3,873
COUNTY AREA	380 Sq. Miles
TERRAIN	Mountainous
ELEVATION (MAJOR CITY)	10,152
MAJOR STREAM	Arkansas
MAJOR TRIBUTARY	Lake Fork
MAJOR WATER USE	Irrigation
IRRIGATED ACRES	6,036
AVERAGE GROWING SEASON	82 Days
ANNUAL MEAN TEMPERATURE	37.3°
AVERAGE ANNUAL RAINFALL	18.45 Inches
AVERAGE ANNUAL SNOWFALL	124.7 Inches
MAJOR SOURCE INCOME	Mining
NUMBER OF FARMS	17
WATER RESOURCE PROJECTS	Frying-Pan
LAND OWNERSHIP PRIVATE FEDERAL STATE COUNTY AND MUNICIPAL	71,342 Acres 198,844 Acres 1,795 Acres 1,620 Acres



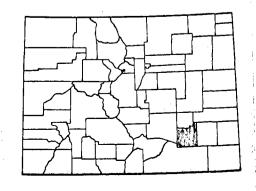
LAS ANIMAS COUNTY

Trinidad
15,291
9,721
5,570
4,793 Sq. Miles
Foothills
6,025
Purgatoire
None
Irrigation
19,463
156 Days
50.4°
15.03 Inches
47.7 Inches
Agriculture, Coal Mining
200
Trinidad Dam
3,179,204 Acres
151,214 Acres
163,997 Acres
3,482 Acres



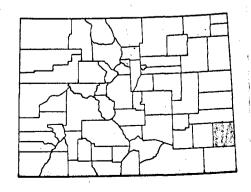
OTERO COUNTY

22,824 12,514 10,310	
10,310	
"	
1,267 Sq.	
	Miles
Plains	
La Junta	
Arkansas	
Horse Cre	ek
Irrigatio	n
57,675	
162 Days	
52.0°	
12.31 Inc	hes
26.7 Inch	es
Agricultu	re
690	
Frying_Pa	in`
	· ·
506,310	Acres
169,004	Acres
-	Acres
2,050	Acres
	Plains La Junta Arkansas Horse Cred Irrigation 57,675 162 Days 52.0 12.31 Inch Agricultu 690 Frying-Pa 506,310 169,004 120,572



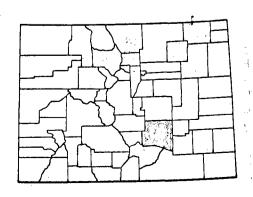
PROWERS COUNTY

MAJOR CITY	Lamar
1970 POPULATION	12,877
URBAN POPULATION	7,510
RURAL POPULATION	5 , 367
COUNTY AREA	1,626 Sq. Miles
TERRAIN	Plains
ELEVATION (MAJOR CITY)	3,622
MAJOR STREAM	Arkansas
MAJOR TRIBUTARY	None
MAJOR WATER USE	Irrigation
IRRIGATED ACRES	93,004
AVERAGE GROWING SEASON	163 Days
ANNUAL MEAN TEMPERATURE	52.0°
AVERAGE ANNUAL RAINFALL	15.20 Inches
AVERAGE ANNUAL SNOWFALL	26.0 Inches
MAJOR SOURCE INCOME	Agriculture
NUMBER OF FARMS	469
WATER RESOURCE PROJECTS	None
LAND OWNERSHIP	996,952 Acres
PRIVATE FEDERAL STATE	1,064 Acres 44,667 Acres
COUNTY AND MUNICIPAL	1,794 Acres



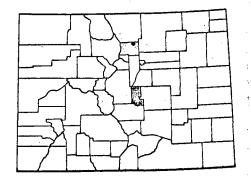
PUEBLO COUNTY

MAJOR CITY	Pueblo
PRIOR CITY	117,212
1970 POPULATION	
URBAN POPULATION	106,656
RURAL POPULATION	10,556
	2,401 Sq. Miles
COUNTY AREA	Plains
TERRAIN	PIAINS
ELEVATION (MAJOR CITY)	4,696
MAJOR STREAM	Arkansas
PINOOK STANIA	Fountain
MAJOR TRIBUTARY	
MAJOR WATER USE	Irrig. Indust.
IRRIGATED ACRES	35,749
AVERAGE GROWING SEASON	169 Days
	51.2°
ANNUAL MEAN TEMPERATURE	
AVERAGE ANNUAL RAINFALL	12.14 Inches
AVERAGE ANNUAL SNOWFALL	31.3 Inches
MAJOR SOURCE INCOME	Industry
	469
NUMBER OF FARMS	
WATER RESOURCE PROJECTS	Frying-Pan
LAND OWNERSHIP	
PRIVATE	1,173,389 Acres
FEDERAL	76,712 Acres
STATE	232,519 Acres
COUNTY AND MUNICIPAL	3,045 Acres



TELLER COUNTY

MAJOR CITY	Cripple Creek
	3,033
1970 POPULATION	
URBAN POPULATION	No City Over 2,500
RURAL POPULATION	3,033
COUNTY AREA	554 Sq. Miles
	Mountainous
TERRAIN	
ELEVATION (MAJOR CITY)	9,949
MAJOR STREAM	Four Mile
MAJOR TRIBUTARY	None
That off Tree Street	Tarrier Common
MAJOR WATER USE	Irrig. Commer.
IRRIGATED ACRES	865
AVERAGE GROWING SEASON	68 Days
	NA
ANNUAL MEAN TEMPERATURE	NA
AVERAGE ANNUAL RAINFALL .	NA NA
AVERAGE ANNUAL SNOWFALL	NA
	Tourism,
MAJOR SOURCE INCOME	Agriculture,
NUMBER OF FARMS	10
WATER RESOURCE PROJECTS	None
WATER RESOURCE PRODUCES	
LAND OWNERSHIP	105 057 7
PRIVATE	195,257 Acres
FEDERAL	156,671 Acres
STATE	8,755 Acres
COUNTY AND MUNICIPAL	5,598 Acres



OATS	1	230	200	06	650	1800	80	220	! !	006	1	290	460	130	350	[[
SPRING	250	20	l	80	50	450	30	10	300	300		20	100	!	160	I I	•			
WHEAT WINTER	42,000	000.6	!	1,150	160	17,000	550	3,300	38,000	165,000		3,940	3,400	30,500	11,000	1				
IRRIGATED	56,910	45,292	16,126	25,010	15,930	13,630	13,920	11,453	5,127	56,576	980,9	19,463	57,675	93,044	35,749	865				
LAND II FARMS	171	301	121	287	82	121	421	138	15	213	10	227	539	430	469	10		`		
FARMS (1000 A.) CROP LAND	847	145	24	105	28	200	30	. 48	009	776	9	130	87	530	151	ω				
LAND IN FF	1430	917	160	490	280	1050	493	800	1080	1340	28	2781	630	1030	1362	155				· ·
NO. OF FARMS	750	450	170	400	180	750	550	280	350	840	17	009	069	729	800	70			···	
LAND AREA (1000 A.)	1642	971	665	514	472	1381	1000	1010	1147	1389	243	3068	811	1041	1537	355	,,			
COUNTY	Baca	Bent	Chaffee	Crowley	Custer	El Paso	Fremont	Huerfano	Kiowa	Kit Carson	Lake	Las Animas	Otero	Prowers	Pueblo Pueblo	reller				

BARLEY	600	370	100	80	210	009	270	250	-	1,400	i i	140	720	1	1,250	1	
ALL	006,7	25,150	9,280	13,750	28,300	22,900	8,350	7,400	10,000	20,500	1,900	12,850	15,150	37,200	17,950	2,000	
WILD	100	250	480	650	1	3,500	850	800	200	1,300	1,300	950	50	1	350	550	
ALFALFA	2,100	23,500	5,800	12,500	2,300	12,500	2,000	5,100	800	5,200	1	12,000	14,500	35,500	13,500	50	:
BROOM	35,700	1	1 2	l t		1		10		1		500	t i	100			
POTATOES	100	40	1	20	Į.	-	-	10	!	1	-	!	1	20	100	1	
DRY	100	!	1	750	1	.	. !	1	. !	1,900	1		099	20	12,600	. !	
SUGAR	1,640	460	‡ !	550	1	· I		•	50	2,200		[1,100	2,430	1,390		
HMS	49,500	7,300	I I	740	130	2,±00	170	280	15,600	22,300	ľ	4,720	1,660	41,010	4,790	. !	
SORGUHMS	000,06	17,500	: !	00916		3,400			38,000	15,000		1 [95,600	1	: !	
SILAGE				2,900	20	4,000	280	100	110	000,6	!	099	5,700	1,500	1,800	: [
COEN		1,100	. !	1,700		3,300	280	20 1 <i>9</i>	190	27,300		200	4,600	1,100	006 , 4		

Comentary on Basin Yield and Water Budget Data.

In Water Year 1973 the native basin yield for the Arkansas Basin above the confluence of the Purgatoire (including the Purgatoire River) was 688,080 A.F. The average percipitation over the area (17,920 sq. miles of 11,468,800 acres) was 13.84 inches. This gives a total percipitation of 13,190,000 A.F. for the basin. Of this 13,190,000 A.F. only 688,080 A.F. (5.2%) is accounted for in streamflow; the remaining 94.8% is either evaporated, transpired or retained in the soil.

The diverted water of 2,123,149.75 A.F. when compared with native basin yield plus transmountain imported water of 759,660 A.F. indicates the water was used 2.79 times.

Comparative Water Year 1972, 1973 Data.

•	1972	1973	
Basin Yield Including Transmountain	791,860	759,660	A.F.
Total Diverted	1,382,321.52	2,123,149.75	A.F.
Average Percipitation	13.46 Inch	13.84 Inc	h

Pertinent Basin Yield Statistics for Arkansas Drainage In	Colorado,	Div. 2
Recorded Flow at Arkansas - Las Animas	70,080	A.F.
Estimated Depletion by Irrigation above gage 1.5 A.F./Acre x 412,000 Acres - 618,000 A.F.	618,000	A.F.
Recorded Flow at Purgatoire River - Las Animas	17,580	A.F.
Estimated Depletion by Irribation above gage 1.5 A.F./Acre x 36,000 Acres = 54,000 Acres	54,000	A.F.
Basin Yield including 131,760 A.F. Transmountain Import	759,060	A.F.
Less	131,760	A.F.
	~.	
Native Basin Yield above Confluence of Arkansas and Purgatoire River	627,900	A.F.
Total Diversion in Division 2 from page 2	2,123,149	.75 A.F.

Ratio of Basin Yield plus Transmountain imported water (759,660 A.F.) to Total Diverted Water (2,123,139,75 A.F.) indicates a use factor of 2.79.

DIVISION SUMMARY DIVISION NO. 2
Direct Flow Diversions 1974

TOTAL	67	66	19	*18	17	*16	15	14	*13	12	11	10	WATER
1538	38	7	105	27	44	244	82	40	500	239	167	45	ACTIVE DITCHES
													INACTIVE DITCHES
1064	108	o	137	24	62	169	42	25	53	93	138	205	IVE N.U.
1252	33	7	92	25	33	208	63	34	361	189	167	40	NUMBER OF DITCHES A CLOSE
186	6		13	0	7	37	18	ω	45	52	0	4.	NUMBER OF DITCHES ADMIN. CLOSE FREQ.
1248343.61	126341.00	1224.00	31696.00	10520.80	419790.26	7151.60	27932.47	219134.86	61732.24	167362.00	118653.30	56,805.08	DIRECT DIVER. ACRE FEET
672267	76348	489	10345	7550	363864	29458	4654	102549	31420	17606	17164	10730	NUMBER OF ACRES IRRIGATED
1.86	1.65	2.50	3.06	1.39	1.15	0.243	6.00	2.13	1.96	9.75	6.91	5.29	A.F. PER ACRE
95936.00								5338.00		90598.00			INDUSTRIAL USE DIVER. ACRE FEET
38362.18							136.90	26773.20		9204.00		2248.08	MUNICIPAL DIVER. ACRE FEET
115308.46					,							115,308.46	TRANS-MIN. DIVER. ACRE FEET
1382641.79	126341.00	1224.00	31696.00	10520.80	419790.26	7151.60	28069.37	251246.06	61732.24	267164.00	118653.30	59053.16	TOTAL DIVERSION ACRE FEET
					22								

* Some districts above are an estimate of their direct diversions for water year 1974.

DIVERSION DATA

Recorded Diversion by Municipalities; Water Year 1973

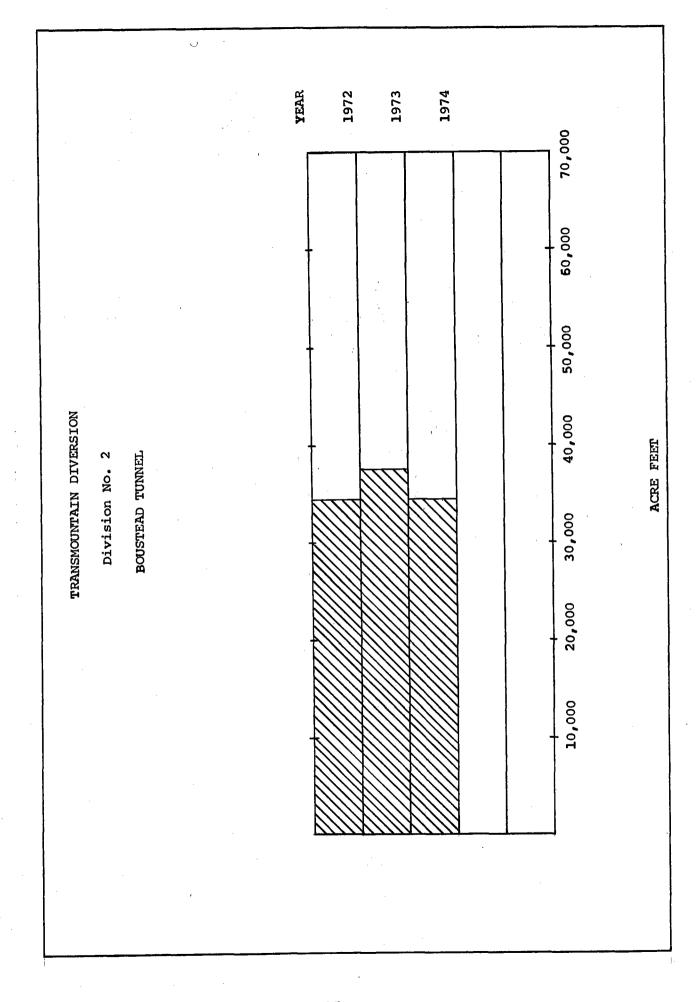
Municipal Diversion, Colorado Springs Municipal Diversion, Canon City (Includes substantial irrigation)	11,316.17 9,8 4 4.00	A.F.
Municipal Diversion, Pueblo (Includes some irrigation)	23,768.20	A.F.
Total Recorded Municipal Diversion	44,928.37	A.F.
Estimated Return Flow	23,000.00 21,928.37	
Estimated Depletion by Municapalities	21,928.37	
Recorded Diversion By Industrial Use.		
Diversion by Minnequa Canal	88,828.00	
C.F. & I. Diversion from St.Charles	1,431.00	
Total Industrial Diversion	·90 , 259 . 00	
Estimated Return Flow	67,000.00	•
Estimated Depletion by Industry	23,259.00	
		÷
Recorded Diversion by Irrigation		
Water District 10	52,193.73	A.F.
Water District 11	150,125.60	
Water District 12 .	186,106.00	
Water District 13	77,165.30	
Water District 14	290,887.78	
Water District 15	39,246.11	
Water District 16	63,313.76	
Water District 17	796,183.00	
Water District 18	13,151.00	
Water District 19	111,422.00	
Water District 66	2,228.00	
Water District 67	205,940.00	
Total Irrigation Diversion	1,987,962.28	

TRANSMOUNTAIN DIVERSION

DIVISION NO. 2

Tabulation 1974

Concerted marying	10/1/73 to 9/30/74	orado urora 25,250 A.F.	2,880 A.F.	0 1,050 A.F.	0 1,930 A.F.	servoir 44,030 A.F. pany	1 Co. 5,600 A.F.	Co. 433 A.F.	4 CEL 78
דמים מים בין די בין	RECIPIENT	Cities of Colorado Springs and Aurora	City of Pueblo	City of Pueblo	City of Pueblo	Twin Lakes Reservoir and Canal Company	Highline Canal Co.	Catlin Canal Co.	
Saraga	SOURCE	Middle Fork Homestake Creek Division No. 5	Eagle River Division No. 5	Piney Creek	Eagle River Division No. 5	Roaring Fork River Division No. 5	Ivanhoe Creek Division No. 5	Tomici Creek Division No. 4	
	NAME	Homestake Tunnel	Wurtz Ditch	Ewing Ditch	Columbine Ditch	Twin Lakes Tunnel	Busk Ivanhoe Tunnel	Larkspur Ditch	



1974 YEAR 1970 1972 1973 1971 4,000 TRANSMOUNTAIN DIVERSION 5 YEAR COMPARISON EWING DITCH 1974 3,000 Division No. 2 ACRE FEET Source: Piney Creek Division No. 5 2,000 Recipient: City of Pueblo

YEAR 1970 1971 1972 1973 1974 00016 8,000 2,000 TRANSMOUNTAIN DIVERSION 5 YEAR COMPARISON BUSK IVANHOE 1974 DIVISION NO. 2 ACRE FEET 00019 Source: Ivanhoe Creek Division No. 5 Recipient: Highline Canal Co.

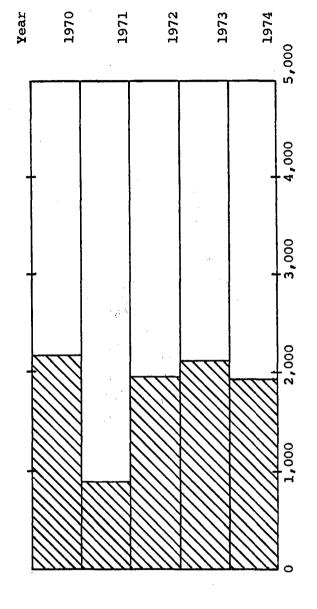
TRANSMOUNTAIN DIVERSION

Division No. 2

COLUMBINE DITCH 1974

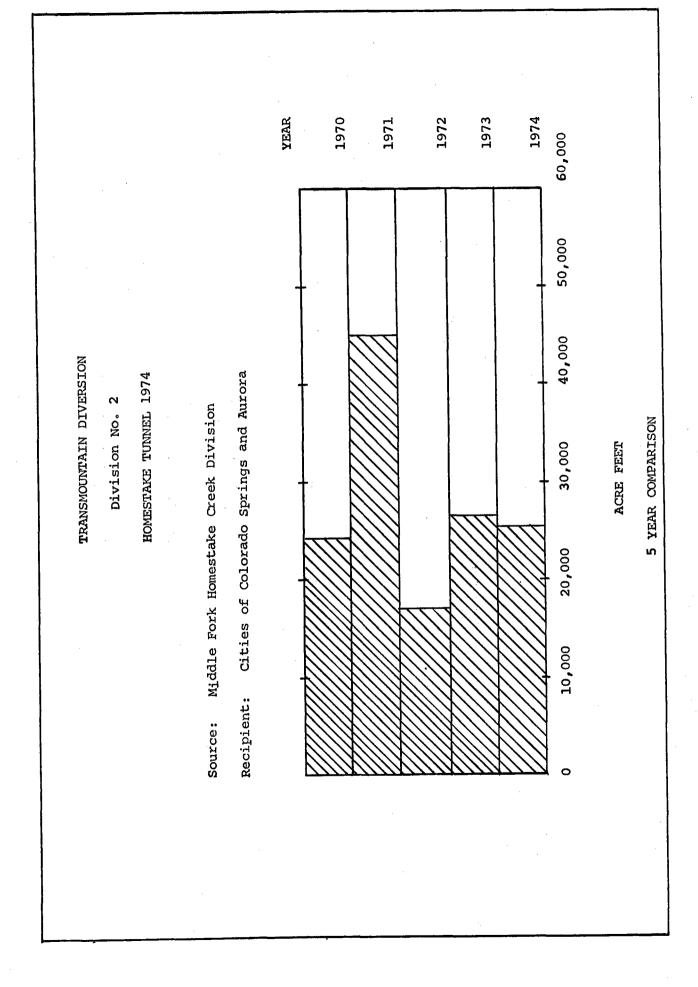
Source: Eagle River, Division No. 5

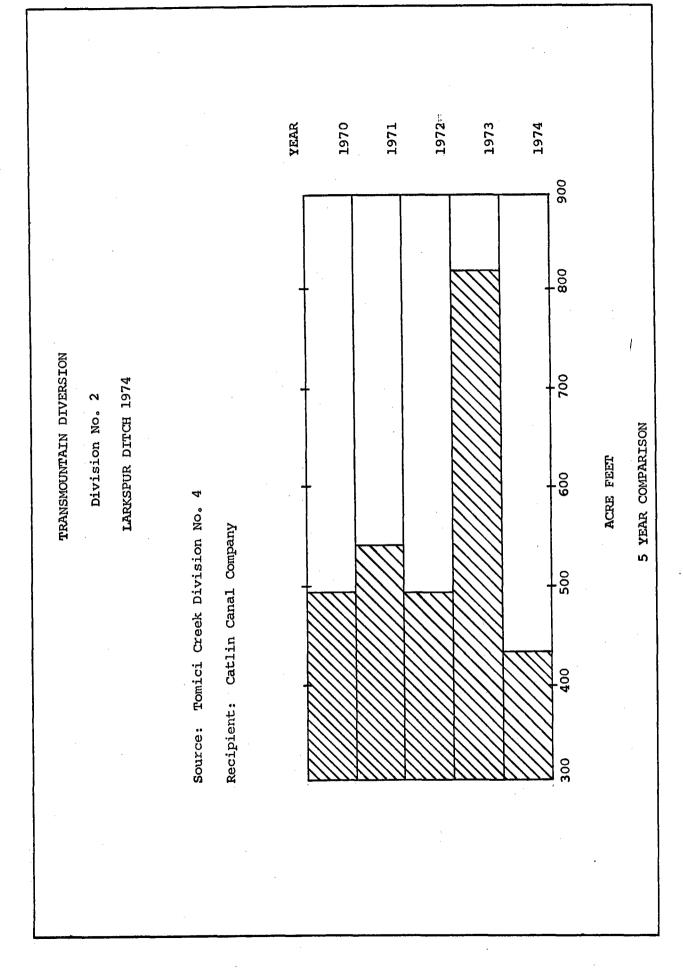
Recipient: City of Pueblo



ACRE FEET

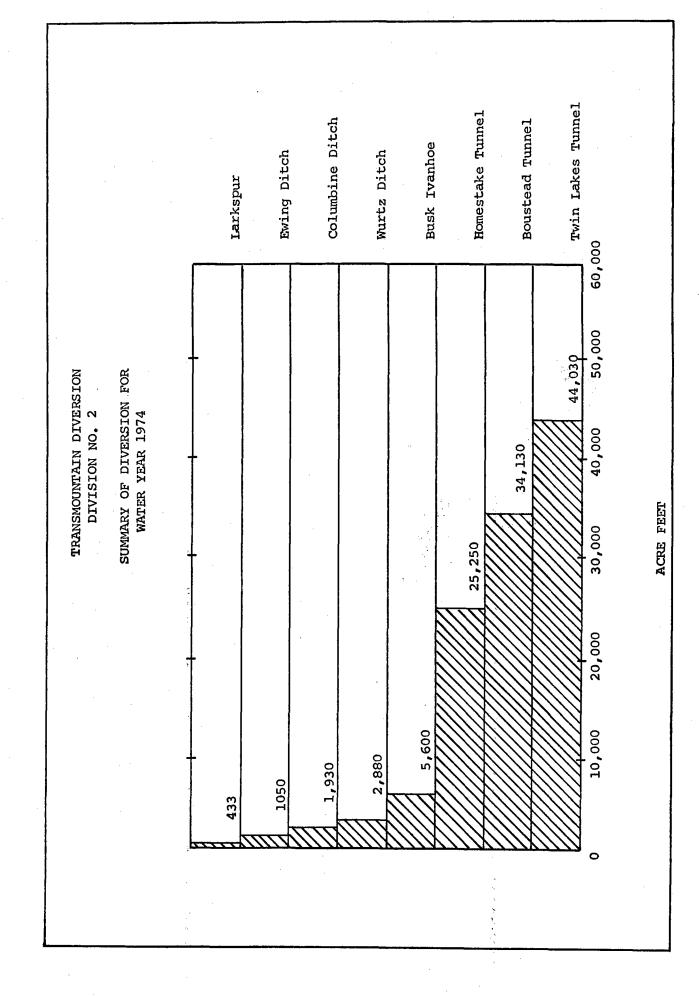
5 YEAR COMPARISON





Year 1970 1971 1972 1973 1974 80,000 70,000 TRANSMOUNTAIN DIVERSION 5 YEAR COMPARISON TWIN LAKES TUNNEL 1974 Division No. 2 ACRE FEET 000'09 Recipient: Twin Lakes Reservoir and Canal Company 50,000 Source: Roaring Fork River Division #5 40,000 30,000

YEAR 1970 1971 1972 1973 1974 2,000 4,000 TRANSMOUNTAIN DIVERSION 3,000 Division No. 2 WURTZ DITCH 1974 5 YEAR COMPARISON Source: Eagle River Diversion No. 5 ACRE FEET Recipient: City of Pueblo



Precipitation;

Rainfall was generally inadequate in the entire division. The runoff was in some cases non-existant to inadequate, and the snow pack was reduced by high winds in the spring (see attached table).

Summer showers were well distributed with no damage reported by floods, the season was marked by the lack of any major rains.

There were the usual small intense hail storms, which in their center were quite destructive but fortunately were not large in area, in what appears to be a "hail belt" east of Pueblo there were 2 storms to hit the same area causing extensive damage to onions and other row crops. The dryland pastures were so dry that even the hail was beneficial and welcomed by area ranchers.

Floods:

There were no reports of major floods. There were two periods of high water that came into Pueblo Reservoir that are of note. They occurred during the early morning hours and were undetected on the inflow measuring devices as they were only observed once a day; the resultant change in contents precipitated the controversy which culminated in the moving of the Mano-meter gage to Portland and the instalation of the telemetering equipment from Canon City Gage, The operations of the Pueblo Dam are still in the formative stage

Dams:

The construction of a large dam on Two Buttes Creek by a water right owner caused a complaint to be filed by the owners of Two Buttes Reservoir, that their water rights were interferred with. Investigation disclosed they were right and an inspection was made by the Denver Dam Section, an order was given to breech the dam, which was ignored by the dam owner, case no. W-4150 was filed by the attorney general, and the dam was breeched and the case continued.

IRRIGATION DIVISION NO. 2

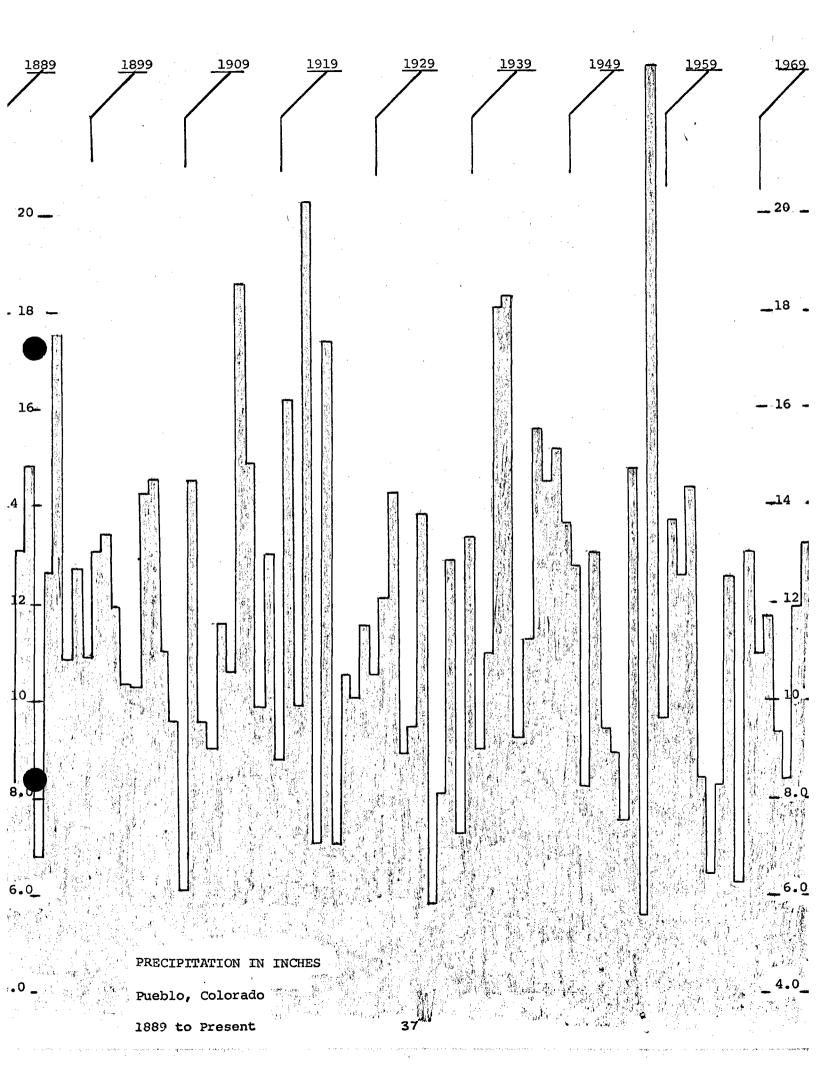
STATION	WATER CONTENT % NORMAL - MAY 1974	SNOW DEPTH	WATER CONTENT MAY 1, 1974	AVERAGE INCHES
BIGELOW DIVIDE	190%	20"	6.8	3.6
COOPER HILL	128%	47"	15.5	12.1
EAST FORK	140%	29"	10.5	7.5
FOUR MILE PARK	14%	1"	.2	1.4
FREMONT PASS	117%	57"	21.2	18.1
GARFIELD	127%	25"	10.9	8.6
MONARCH PASS	116%	46"	18.9	16.5
TENNESSEE PASS	94%	24"	8.0	8.5
TWIN LAKES TUNNEL	129%	33"	12.1	9.4
WESTCLIFFE		0"	0	1.6
CUCHARAS PASS		0"	0	3.3
LA VETA PASS		0"	0	2.1
BOURBON		1"	0.4	2.5
				<u> </u>

There have been no reports of weather modification attempts in Div. 2.

Streams in the central part of the state are 75 to 85% of normal. Water supplies may be short in these areas unless above average rainfall occurs. Forecasters range from 96% of average on Arkansas River at Salida to 83% on the Purgatoire. Soil moisture in irrigated areas is fair. Carry over storage was poor in 1974.

PRECIPITATION IRRIGATION #2

DEPART FROM		78			.81	-,68
SEPTEMBER SP74	,12	.44	59°	61°1	1,77	.43
NOEWEL FROM	-2.28	98° -			-1.10	-1.44
AUGUST P1914	90•	1.00	1,75	1,45	1.34	1.14
NOKWAL FROM	00°	00°			-1.59	-1.68
76T 700°	2.33	1.98	1.23	1.96	.87	
DEPART FROM	54			,		-1.02 1.42
1974 June	1.72		1,70	1.08	2,95	1.29
NOEMAL FROM	- 53	82			-1.15	-1.79
MAY 4791	2.00	.40	1,17	2,53	.49	•33
NOEMAL DEPART FROM	-1.21	-1,13			-1.52	.47
APRIL APRIL	.14	.57	.29	.27	.40	1.92
STATION	Lamar	Leadville	Pueblo	Trinidad	Westcliffe	Colorado Springs



38

WIND MPH
RELATIVE HUMIDITY %

IRRIGATION DIVISION #2

WATER DISTRICT	NAME OF RESERVOIR	STREAM	DAM HEIGHT	INSPECTION
10	Fountain Valley #2 Fountain Valley #3	Fountain Fountain	Over 35'	Yes Yes
the state of the s	Monument	Monument Cr.	over 35'	Yes
	Manitou	French Cr.	over 35'	Yes
	Mesa No. 1	No. Cheyenne	over 35	Yes
	Mesa No. 2	No. Cheyenne	over 35'	Yes
11	Sugar Loaf	Lake Fork	over 35'	Yes
	Twin Lakes	Lake Cr.	over 35'	None
	Clear Creek	Clear Cr.	over 35'	Yes
12	Mt. Pisgah	Four Mile	over 35'	Yes
	Skaguary '	Beaver Cr.	over 35'	None
	Brush Hollow	Brush Hollow	over 35'	None
13	DeWeese Dye	Grape Cr.	over 35'	Yes
14	See District No. 17			
15	Hayden Beckwith	Greenhorn	over 35'	Yes
16	Cucharas	Cucharas	Over 35'	Yes
:	Coler	Cucharas	10'-20'	None
•	Holita	Cucharas	10'-20'	Yes
16	Horseshoe	Cucharas	20'-35'	Yes
	Orlando	Huerfano	10'-20'	Yes
	Huerfano Valley	Huerfano	10'-20'	Yes
	Dotson	Huerfano	10'-20'	Yes
17	Henry	Arkansas	10'-20'	Yes
•	Meridith	Arkansas	Over 35'	Yes
	Horse Creek	Arkansas	over 35'	Yes
	Adobe	Arkansas	20'-35'	Yes
	Dye	Arkansas	20 '- 35 '	Yes
	Holbrook	Arkansas	20'-35'	Yes
18	Seven Lakes Res.	Las Animas	20'-35'	None
19	Model	Las Animas	20'-35'	Yes
	North	North Fork	20'-35'	Yes
67	John Martin	Arkansas	over 35'	Yes
	Nee Neosh ee	Arkansas	Over 35'	Yes
•	Nee Skah	Arkansas	over 35'	Yes
	Thurston	Arkansas	10'-20'	Yes
	Two Buttes	Two Buttes Cr.	over 35'	Yes
		ľ		
	`			,
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		<u> </u>		l

	AMOUNT OF ACRE 5: OCTOBER 31, 1974	i.	-0-		(853 803	203					890	**************************************	1		324 es	51492	ן אינו מינו	1/034 1503	1563	341 141	7147	8691	TOT	903	900	1,03 2,139	0017	5 C C C C C C C C C C C C C C C C C C C	מטאר	55CT 9		40.00	24 00.00		186 120	Z351	0987	000		
	AMOUNT OF ACRE FEET APRIL 1, 1974	,	0			853	103					1	5146	1		324 est.	57848	101	35829.72	3256.30	541	1965	1851	191	699	689	2451	4127	1898	1593	3203	00.0		24000.00	19.70	1115	2361	7068	300		
-	AMOUNT OF ACRE FEET NOVEMBER 1, 1973		10	1	* ()	853	229	1 * 1	t *	*	1 * 1	602	2236	-0-		324 est.	74625	101	38881	4065.31	541	1965	1770	161	699	689	2489	3281	1773	1593	Frozen	9.80	40.00			896	2338	9269	300	30.00	
	SOURCE		Unnamed Springs		Crystal Creek	No. Branch French Cr.	So. Fork Cheyenne	No. Fork Catamount		So. Catamount	So. Ruxton Creek	Fountain	Fountain	Fountain	Spring Run	Monument Creek	Lake Fork Cr.	Grays Creek	Lake Creek	Clear Creek		Beaver Creek	Beaver Creek	Beaver Creek	Beaver Creek	Beaver Creek	Beaver Creek	Beaver Creek	Four Mile Creek	Beaver Creek	Grape Creek	Springs	Springs	Arkansas	Fountain	St. Charles	St. Charles	St. Charles	Greenhourn	Santa Clara	
	NAME OF RESERVOIR		Ambler Res. No. 2		Crystal Cr. Res.	Manitou Res.	South Suburban Res.	North Catamount	North Field No. 1	South Catamount	Upper So. Ruxton	Callahan Res.	Fountain Valley #2	Fountain Valley #3	Spring Run #2	Monument State	Sugar Loaf Res.	O'Haver	A Twin Lakes Res.	Clear Creek Res.	Colo. Springs #2			Colo. Springs #7	Colo.Springs #8	Lake Moraine	Rosemont Penrose	Brush Hollow	Mt. Pisgah	Skaguay	DeWeese Dye	Curiton	H.O.P. Res.	Pueblo Res.	Greenview	Lake Minnequa	Reservoir No. 2	Reservoir No. 3	Hayden Beckwith	Arnold Flood Water	
	arragan,	!			1		~ :	٠, ٠	÷				٠				**	مر ما	1.			•	. 4.0	. ~~	V.5	٠			4		near to	11.5			* *	٠			ma et a	. ** :	 April 1

	and the second	AMOUNT OF ACRE FEET	AMOUNT OF ACRE FEET APRIL 1. 1974	AMOUNT OF ACRE F
NAME OF RESERVOIR	SOURCE	- 1		
		0		٠.
Bressan #1	Unnamed Arroya			
Bressan #2	Unnamed Arroya	00.0		C
Brunelli #1&2	Bear Creek	0	0	P
Butte	Cucharas	þ	-01	
Chicosa #485	Huerfano	101	-0-	1
Coler (Martin Lake)	Cucharas	-0-	-0-	107
Orcharas Valley	Cucharas	5440	6440	748
Holita	Cucharas	540	.540	540
Hierfano	Huerfano	0	-0-	0
Target and the second s	Cucharas	ļ	-0-	5
Maria Stevens	Cucharas	395	684	318
O SOM	Poison Canon	10	101	ָרְיָּרְיִיּ
Sharps Orchid	Cucharas	0	-0-	100
Gierra Blanca	Decker Creek	150		
Gunnisei de	Santa Clara	10.00		
und don	Santa Clara	008	200	200
Values		-	-	-0-
Volles	Shoor Crook	35.00	•	
MITSON	Silect Creek		-	-
Zan	Apacne Creek	200	. 25671	
Meredith	Arkansas	70077	10070	•
Adobe Creek	Arkansas	7053	1891 2000	
Dye	Arkansas	1 1	##O2	
Henry	Arkansas	2575	/941 /101	
Holbrook	Arkansas	4122	0.77	9 190
Orlando	Huerfano	605.5	1561.6	C. 100
Horseshoe	Cucharas	2139.70	1982,20	1906
Martin Res.	Cucharas	3186	2786	o ToT
Dotson Res.	Chicosa Creek	10		
Horse Creek	Arkansas	100)
Mode1	Purgatoire	030	26.80	
North	Trinchera	2813	2724.90	STOF
Monument	Middle Fork Purgatoire	1609	1609	997
Russel	Chanley Arroya	00.09	40.00	30.00
Hermosa	San Francisco Cr.		308	
Noo Nochoo	Arkansas	17436	43081	
Noo Chab	Arkansas	3630	9801	
Mee Shail	Arkansas	1690	2271	
Thurston Toba Wartin	Arkansas		31214	
John Marcin	Two Butte Cr.	15509	15600	11115
IN Duries				

*Municipal Use - Subject to frequent fluctation; majority of water transmountain.

LIVESTOCK WATER TANKS

Applications Filed and Approved:

Water	District	103
Water	District	110-
Water	District	1212
Water	District	130-
Water	District	144
Water	District	15
Water	District	162
Water	District	177
Water	District	185
Water	District	1923
Water	District	660-
Water	District	671
		Total

All stock pond permits or applications are forwarded to our district Water Commissioners for site investigation and then, approval.

Problems encountered in issuing stock tank permits are;

- In many instances, stock ponds are being constructed under the "Stock Pond Act" and are really being utilized as fish ponds and in some cases are actually being adjudicated.
- 2. Last year (1973) the district had 69 applications.

Water Rights Tabulation:

The tabulation of July 1974 included provision for abandonment, the Water Commissioners were given primary responsibility for making initial determination of this abandonment.

Their efforts ranged from excellent to poor. The Division Office reviewed these computations and notice was arranged to the affected owners, which was made by certified mail.

The ability to identify these owners is limited, we in a number of cases had no idea where even to start. It was found in some cases, the owner of a right was not notified of the action.

The tabulation did not get out until late in the month, and the protest period was shortened to August 20, 1974, before the majority of objections were received, consequently the October tabulation did not reflect the majority of the protests.

The decision to file the Class Action Suit was the only reasonable recourse, the injunction was granted and the best interest of all concerned was served.

The largest part of the W-cases have been reduced to cards ready for Key-punch, and as new rights are granted they are kept current. No problem is anticipated in integrating the W-cases into the old adjudication.

Cases Filed In The Water Court

The following shows the number of cases filed from Nov., 1969 through June 1974, and also the number of claims.

Note: The number of cases is an accurate figure; however, the number of claims is an estimated figure as it is impossible to determine from some applications just how many claims are made, but I state that the figures are reasonably close.

1969

MONTH	CASE NUMBERS		CASES	CLAIMS
November December	W-1 thru W-18 W-19 thru W-22	Sub-total	18 	22 4 26
		1970	•	•
January February March April May June July August September October November December	None W-23 W-24 thru W-28 W-29 thru W-31 W-32 Thru W-41 W-42 thru W-60 W-61 thru W-66 W-67 thru W-74 W-75 thru W-76 W-77 thru W-78 W-79 thru W-87 W-88 thru W-114	Sub-total	0 1 5 3 10 19 6 8 2 2 9 27	0 4 25 7 14 105 22 15 5 2 11 62
•		<u>1971</u>		
January February March April May June July August September October November December	W-115 thru W-12 W-124 thru W-14 W-147 thru W-19 W-196 thru W-26 W-242 thru W-26 W-267 thru W-31 W-318 thru W-34 W-349 thru W-35 W-376 thru W-39 W-396 thru W-46 W-422 thru W-46 W-461 thru W-56	46 95 41 66 17 48 75 95 21 60	9 23 49 46 25 51 31 27 20 26 39 47	40 51 90 80 36 117 77 76 38 66 90 83
		Sub-total	393	844

MONTH	CASE NUMBERS	CASES	CLAIMS
	1972		
January	W-508 thru W-543	36	110
February	W-544 thru W-609	66	167
March	W-610 thru W-701	92	252
April	W-702 thru W-811	110	307
	W812 thru W-1144	333	680
June	W-1145 thru W-3440	22 98	53 85
July	W-3441 thru W-3679	23 9	467
August	W-3680 thru W-3780	101	202
September	W-3781 thru W-3815	. 35	86
October	W-3816 thru W-3852	37	9 7
November	W-3853 thru W-3875	25	49
December	W-3876 thru W-3893	23	53
	Sub-total	3395	7855
	1973		
January	W-3894 thru W-3911 (also W-221-73)	19	47
February	W-3912 thru W3922	11	35
March	W3923 thru W3940	26	87
	(also W-61-73, W-84-73, W-156- W-158-73, W-160-73, W-161-73, W-177-73, W-178-73)	- 73,	
April	W-3941 thru W-3954	18	72
	(also, W-118-73, W-157-73, W-162-73, W-239-73	,	
May	W-3955 thru W-3968	19	670
·· -	(also W-128-73, W-132-73,W-13 W-140-73, W-46-73	3-73,	
June	W-3969 thru W-3983	20	119
	(also W-148-73, W-163-73,		
Start Barrier	W-171-73, W-174-73, W-212-73		
	Sub-total	113	1030
		•	
	filed from 1969 to June 30, 197 number of claims same period		

Cases Terminated by the Water Court.

Month	Number of	cases	terminated
May 1970 June		2 1 4	
July		17	
August		5	*
September October		5	
November		1	
December		15	•
December	Total	50	-
January 1971		0	
February		4	<i>e</i> -
March		16	
April	•	9	
May		15	
June	,	13	
July	·	47	
August		46	
September		26	
October		43	
November		25	
December		30	
	Total	274	
T 1070		2	
January 1972	i e	31	*
Febru ary March		25	
April		39	
May		38	
June		1	
July	•	5	
August		76	
September		47	
October		40	•
November		167	
December		110	
	Total	581	

Cases Terminated by the Water Court.

Month	Number of Cases terminated
January 1973 February March April May June July August September October November December	95 110 151 81 104 174 83 139 121 216 178 78
	Total 1530

-							
Cases	Terminated	1970			• • • • • •	•••••	50
	Terminated.						
	Terminated						
	Terminated						
	*						
mete 1	asasa tami	inated to	Dec	21 10	973		2435

UNDERGROUND WATER IRRIGATION DIVISION NO. 2

Irrigation Division 2 composed of Water Districts 10, 11, 12, 13, 14, 15, 16, 17, 18, 19 and 66 and 67 has, of this date 17,556 wells of all types in operation. Types of use are domestic, stock, domestic and stock, commercial, industrial, irrigation, irrigation and stock, and lastly, municipal. Tabulation, showing the number of each type of well in each district is illustrated by the following table.

The principal aquifer area extends thru a 150 mile reach of the Arkansas River valley extending from Pueblo to the Kansas State line. This is a valley-fill aquifer which is adjacent to, underlies, and is in hydraulic connection with the Arkansas River. The aquifer consists of unconsolidated deposits of gravel, sand silt and clay. It ranges from one to 14 miles in width and covers an area of about 500 square miles in parts of Pueblo, Otero, Crowley, Bent and Prowers Counties. The aquifer fills a "u-shaped" trough cut into the bedrock, which consists of shale, limestone, and sandstone of Cretaceous age. About two million acre feet of water is stored in the valley-fill deposits. Summary of the hydrologic character is shown below;

UNIT	THICKNESS	PHYSICAL CHARACTER	HYDROLOGIC CHARACTER
Dune Sand	0 - 100'	Very fine to coarse, Poorly sorted sand.	Commonly not saturated, but transmits water readily from the surface to underlying aquifers. Source of water for a few domestic and stock wells.
Valley-fill deposits	0 - 300*	Boulders, Cobbles, gravel, sand, silt, and clay. Generally grades from fine sand near the surface to coarse sand and gravel at the base.	Principal source of water for irrigation, public supply, and industrial wells. Irrigation well yields are as much as 3,150 gpm and average 650 gpm. Aquifer furnishes water to 1,348 irrigation wells.
Pierre Shale	0-2,2001	Shale and sandy shale.	Low-permeability confining bed; acts as a barrier to vertical move- ment of ground water. Not known to yield water to wells.
Niobrara Formation	0 - 7001	Chalky and marly Lime- stone and calcareous shale.	Low permeability to confining bed; acts as a barrier to vertical move- ment of ground water. A few stock wells tapping fractured limestone yield less than 5 gpm.

	UNIT	THICKNESS	PHYSICAL CHARACTER	HYDROLOGIC CHARACTER
	Carlile Shale	0 - 2001	Calcareous Shale, Limestone, and sand- stone.	Low-permeability confining bed; acts as a barrier to vertical movement of ground water. Not known to yield water to wells
	Greenhorn Limestone	0 - 150'	Limestone and Chalky Shale	Low-permeability confining bed; acts as a barrier to vertical movement of ground water. A few stock wells tapping fractured lime- stone yield less than 5 gpm.
	Granerous Shale	0 - 200'	Gypsiferous Shale and sandstone.	Low-permeability confining bed; acts as a barrier to vertical movement of ground water. Not known to yield water to wells.
orba: ,	Dakota Sandstone	75 - 235'	Sandstone, sandy shale, siltstone and shale.	Important source of water for domestic, stock and public water. Restricts vertical movement of water to and from the valley-fill deposits. Wells yield as much as 100 gpm and average 20 gpm.

GROUND-WATER WITHDRAWAL FROM THE VALLEY FILL AQUIFER BY IRRIGATION WELLS.

(acre feet per year)

COUNTY	1964	1965	1966	1967	1968
Pueblo	25,000	16,000	23,000	19,000	21,000
Otero-Crowley	53,000	36,000	50,000	48,000	50,000
Bent	33,000	15,000	23,000	23,000	26,000
Prowers	74,000	45,000	34,000	42,000	55,000
Total	185,000	112,000	130,000	132,000	152,000

SUMMARY OF WELLS IRRIGATION DIVISION NO. 2

TYPE OF USE

				•										
	TOTAL	3309	948	269	172	3233	713	441	2732	109	313	1046	3971	17,556
	8	111	19	o	0	49	17	0	73	<u>თ</u>	4	16	123	430
	7	တ်	7	ო	13	83	17	4	51	16	ത	თ	11	231
	9	263	33	53	40	1072	140	81	1270	13	21	603	1675	5264
	5	15	co	18	<u>ا</u> 9	47	н	28	32	6	16	15	13	193
	4	89	56	17	<u>}</u>	61	4	9	43	0	0	o	38	302
-	3	72	ю	24	ω.	109	23	16	116	m	16	32	516	938
	2	106	11	. 63	32	387	51	170	643	51	194	277	1452	3440
	1	2665	811	382	92	1426	460	136	504	17	53	85	143	6758
											. ,			
RICE													٠	7
WATER DISTRICT	ğl ·	10	11	12	13	14	15	16	17	18	19	99	29	TOTAL

Domestic Stock 33 Type of Use

Domestic & Stock Commercial (3)

⁽⁵⁾ Industrial
(6) Irrigation

Irrigation & Stock Municipal (8)

ARKANSAS RIVER COMPACT Irrigation Division No. 2

The John Martin began storage on November 1, 1973 and continued until March 28, 1974, when releases were began the 31,066 A.F. was exhausted on April 20, 1974 and the downstream ditches were again in the system and water was passed to them in priority.

ARKANSAS RIVER COMPACT

The State of Colorado and the State of Kansas, parties signatory to this Compact (hereinafter referred to as "Colorado" and "Kansas", respectively, or individually as a "State", or collectively as the "States" having resolved to conclude a compact with respect to the waters of the Arkansas River, and being moved by considerations of interstate comity, having appointed commissioners as follows:

Henry C. Vidal, Gail L. Ireland, and Harry B. Mendenhall, for Colorado; and George S. Knapp, Edward F. Arn, William E. Leavitt, and Roland H. Tate, for Kansas;

and the consent of the Congress of the United States to negotiate and enter into an interstate compact not later than January 1, 1950, having been granted by Public Law 34, 79th Congress, 1st Session, and pursuant thereto the President having designated Hans Kramer as the representative of the United States, the said commissioners for Colorado and Kansas, after negotiations participated in by the representative of the United States, have agreed as follows:

ARTICLE I

The major purposes of this Compact are to:

- A. Settle existing disputes and remove causes of future controversy between the States of Colorado and Kansas, and between citizens of one and citizens of the other State, concerning the waters of the Arkansas River and their control, conservation and utilization for irrigation and other beneficial purposes.
- B. Equitably divide and apportion between the States of Colorado and Kansas the waters of the Arkansas River and their utilization as well as the benefits arising from the construction, operation and maintenance by the United States of John Martin Reservoir Project for water conservation purposes.

ARTICLE II

The provisions of this Compact are based on (1) the physical and other conditions peculiar to the Arkansas River and its natural drainage basin, and the nature and location of irrigation and other developments and facilities in connection therewith; (2) the opinion of the United States Supreme Court entered December 6, 1943, in the case of Colorado v. Kansas (320 U. S. 383) concerning the relative rights of the respective States in and to the use of waters of the Arkansas River; and (3) the experience derived under various interim executive agreements between the two States apportioning the waters released from the John Martin Reservoir as operated by the Corps of Engineers.

ARTICLE III

As used in this Compact:

- A. The word "Stateline" means the geographical boundary line between Colorado and Kansas.
- B. The term "waters of the Arkansas River" means the waters originating in the natural drainage basin of the Arkansas River, including its tributaries, upstream from the Stateline, and excluding waters brought into the Arkansas River basin from other river basins.
- C. The term "Stateline flow" means the flow of waters of the Arkansas
 River as determined by gaging stations located at or near the Stateline. The flow as
 determined by such stations, whether located in Colorado or Kansas, shall be deemed
 to be the actual Stateline flow.
- D. "John Martin Reservoir Project" is the official name of the facility formerly known as Caddoa Reservoir Project, authorized by the Flood Control Act of 1936, as amended, for construction, operation and maintenance by the War

Department, Corps of Engineers, later designated as the Corps of Engineers, Department of the Army, and herein referred to as the "Corps of Engineers". "John Martin Reservoir" is the water storage space created by "John Martin Dam".

- E. The "flood control storage" is that portion of the total storage space in John Martin Reservoir allocated to flood control purposes.
- F. The "conservation pool" is that portion of the total storage space in John Martin Reservoir lying below the flood control storage.
- G. The "ditches of Colorado Water District 67" are those ditches and canals which divert water from the Arkansas River or its tributaries downstream from John Martin Dam for irrigation use in Colorado.
- H. The term "river flow" means the sum of the flows of the Arkansas and the Purgatoire Rivers into John Martin Reservoir as determined by gaging stations appropriately located above said Reservoir.
- I. The term 'the Administration' means the Arkansas River Compact
 Administration established under Article VIII.

ARTICLE IV

Both States recognize that:

- A. This Compact deals only with the waters of the Arkansas River as defined in Article III.
- B. This Compact is not concerned with the rights, if any, of the State of New Mexico or its citizens in and to the use in New Mexico of waters of Trinchera Creek or other tributaries of the Purgatoire River, a tributary of the Arkansas River.
- C. (1) John Martin Dam will be operated by the Corps of Engineers to store and release the waters of the Arkansas River in and from John Martin

Reservoir for its authorized purposes.

- (2) The bottom of the flood control storage is presently fixed by the Chief of Engineers, U. S. Army, at elevation 3,851 feet above mean sea level. The flood control storage will be operated for flood control purposes and to those ends will impound or regulate the streamflow volumes that are in excess of the then available storage capacity of the conservation pool. Releases from the flood control storage may be made at times and rates determined by the Corps of Engineers to be necessary or advisable without regard to ditch diversion capacities or requirements in either or both States.
- (3) The conservation pool will be operated for the benefit of water users in Colorado and Kansas, both upstream and downstream from John Martin Dam, as provided in this Compact. The maintenance of John Martin Dam and appurtenant works may at times require the Corps of Engineers to release waters then impounded in the conservation pool or to prohibit the storage of water therein until such maintenance work is completed. Flood control operation may also involve temporary utilization of conservation storage.
- D. This Compact is not intended to impede or prevent future beneficial development of the Arkansas River basin in Colorado and Kansas by Federal or State agencies, by private enterprise, or by combinations thereof, which may involve construction of dams, reservoirs and other works for the purposes of water utilization and control, as well as the improved or prolonged functioning of existing works:

 Provided, that the waters of the Arkansas River, as defined in Article III, shall not be materially depleted in usable quantity or availability for use to the water users in Colorado and Kansas under this Compact by such future development or construc-

tion.

ARTICLE V

Colorado and Kansas hereby agree upon the following basis of apportionment of the waters of the Arkansas River:

- A. Winter storage in John Martin Reservoir shall commence on November 1st of each year and continue to and include the next succeeding March 31st. During said period all water entering said reservoir up to the limit of the then available conservation capacity shall be stored: Provided, that Colorado may demand releases of water equivalent to the river flow, but such releases shall not exceed 100 c.f.s. (cubic feet per second) and water so released shall be used without avoidable waste.
- B. Summer storage in John Martin Reservoir shall commence on April 1st of each year and continue to and include the next succeeding October 31st. During said period, except when Colorado water users are operating under decreed priorities as provided in paragraphs F and G of this Article, all water entering said reservoir up to the limit of the then available conservation capacity shall be stored: Provided, that Colorado may demand releases of water equivalent to the river flow up to 500 c.f.s., and Kansas may demand releases of water equivalent to that portion of the river flow between 500 c.f.s. and 750 c.f.s., irrespective of releases demanded by Colorado.
- C. Releases of water stored pursuant to the provisions of paragraphs A and B of this Article shall be made upon demands by Colorado and Kansas concurrently or separately at any time during the summer storage period. Unless increases to meet extraordinary conditions are authorized by the Administration, separate releases of stored water to Colorado shall not exceed 750 c.f.s., separate releases of

stored water to Kansas shall not exceed 500 c.f.s., and concurrent releases of stored water shall not exceed a total of 1250 c.f.s.: Provided, that when water stored in the conservation pool is reduced to a quantity less than 20,000 acre-feet, separate releases of stored water to Colorado shall not exceed 600 c.f.s., separate releases of stored water to Kansas shall not exceed 400 c.f.s., and concurrent releases of stored water shall not exceed 1,000 c.f.s.

- D. Releases authorized by paragraphs A, B and C of this Article, except when all Colorado water users are operating under decreed priorities as provided in paragraphs F and G of this Article, shall not impose any call on Colorado water users that divert waters of the Arkansas River upstream from John Martin Dam.
- E. (1) Releases of stored water and releases of river flow may be made simultaneously upon the demands of either or both States.
- (2) Water released upon concurrent or separate demands shall be applied promptly to beneficial use unless storage thereof downstream is authorized by the Administration.
- (3) Releases of river flow and of stored water to Colorado shall be measured by gaging stations located at or near John Martin Dam and the releases to which Kansas is entitled shall be satisfied by an equivalent in Stateline flow.
- (4) When water is released from John Martin Reservoir appropriate allowances as determined by the Administration shall be made for the intervals of time required for such water to arrive at the points of diversion in Colorado and at the Stateline.
- (5) There shall be no allowance or accumulation of credits or debits for or against either State.
 - (6) Storage, releases from storage and releases of river flow authorized

in this Article shall be accomplished pursuant to procedures prescribed by the Administration under the provisions of Article VIII.

F. In the event the Administration finds that within a period of fourteen (14) days the water in the conservation pool will be or is liable to be exhausted, the Administration shall forthwith notify the State Engineer of Colorado, or his duly authorized representative, that commencing upon a day certain within said fourteen (14) day period, unless a change of conditions justifies cancellation or modification of such notice, Colorado shall administer the decreed rights of water users in Colorado Water District 67 as against each other and as against all rights now or hereafter decreed to water users diverting upstream from John Martin Dam on the basis of relative priorities in the same manner in which their respective priority rights were administered by Colorado before John Martin Reservoir began to operate and as though John Martin Dam had not been constructed. Such priority administration by Colorado shall be continued until the Administration finds that water is again available in the conservation pool for release as provided in this Compact, and timely notice of such finding shall be given by the Administration to the State Engineer of Colorado or his duly authorized representative; Provided, that except as controlled by the operation of the proceeding provisions of this paragraph and other applicable provisions of this Compact, when there is water in the conservation pool the water. users upstream from John Martin Reservoir shall not be affected by the decrees to the ditches in Colorado Water District 67. Except when administration in Colorado is on a priority basis the water diversions in Colorado Water District 67 shall be administered by Colorado in accordance with distribution agreements made from time to time between the water users in such District and filed with the Administration and with the State Engineer of Colorado or, in the absence of such agreement, upon the basis of the respective priority decrees, as against each other, in said District.

- G. During periods when Colorado reverts to administration of decreed priorities, Kansas shall not be entitled to any portion of the river flow entering John Martin Reservoir. Waters of the Arkansas River originating in Colorado which may flow across the Stateline during such periods are hereby apportioned to Kansas.
- H. If the usable quantity and availability for use of the waters of the Arkansas River to water users in Colorado Water District 67 and Kansas will be thereby materially depleted or adversely affected, (1) priority rights now decreed to the ditches of Colorado Water District 67 shall not hereafter be transferred to other water districts in Colorado or to points of diversion or places of use upstream from John Martin Dam; and (2) the ditch diversion rights from the Arkansas River in Colorado Water District 67 and of Kansas ditches between the Stateline and Garden City shall not hereafter be increased beyond the total present rights of said ditches, without the Administration, in either case (1) or (2), making findings of fact that no such depletion or adverse affect will result from such proposed transfer or increase. Notice of legal proceedings for any such proposed transfer or increase shall be given to the Administration in the manner and within the time provided by the laws of Colorado or Kansas in such cases.

ARTICLE VI

- A. (1) Nothing in this Compact shall be construed as impairing the jurisdiction of Kansas over the waters of the Arkansas River that originate in Kansas and over the waters that flow from Colorado across the Stateline into Kansas.
 - (2) Except as otherwise provided, nothing in this Compact shall be con-

strued as supplanting the administration by Colorado of the rights of appropriators of waters of the Arkansas River in said State as decreed to said appropriators by the courts of Colorado, nor as interfering with the distribution among said appropriators by Colorado, nor as curtailing the diversion and use for irrigation and other beneficial purposes in Colorado of the waters of the Arkansas River.

B. Inasmuch as the Frontier Canal diverts waters of the Arkansas River in Colorado west of the Stateline for irrigation uses in Kansas only, Colorado concedes to Kansas and Kansas hereby assumes exclusive administrative control over the operation of the Frontier Canal and its headworks for such purposes, to the same extent as though said works were located entirely within the State of Kansas. Water carried across the Stateline in the Frontier Canal or any other similarly situated canal shall be considered to be part of the Stateline flow.

ARTICLE VII

- A. Each State shall be subject to the terms of this Compact. Where the name of the State or the term "State" is used in this Compact these shall be construed to include any person or entity of any nature whatsoever using, claiming or in any manner asserting any right to the use of the waters of the Arkansas River under the authority of that State.
- B. This Compact establishes no general principle or precedent with respect to any other interstate stream.
- C. Wherever any State or Federal official or agency is referred to in this Compact such reference shall apply to the comparable official or agency succeeding to their duties and functions.

ARTICLE VIII

A. To administer the provisions of this Compact there is hereby created an

interstate agency to be known as the Arkansas River Compact Administration herein designated as "the Administration".

- B. The Administration shall have power to:
- (1) Adopt, amend and revoke by-laws, rules and regulations consistent with the provisions of this Compact;
- (2) Prescribe procedures for the administration of this Compact: Provided, that where such procedures involve the operation of John Martin Reservoir Project they shall be subject to the approval of the District Engineer in charge of said Project;
- (3) Perform all functions required to implement this Compact and to do all things necessary, proper or convenient in the performance of its duties.
- C. The membership of the Administration shall consist of three representatives from each State who shall be appointed by the respective Governors for a term not to exceed four years. One Golorado representative shall be a resident of and water right owner in Water Districts 14 or 17, one Golorado representative shall be a resident of and water right owner in Water District 67, and one Golorado representative shall be the Director of the Golorado Water Conservation Board.

 Two Kansas representatives shall be residents of and water right owners in the counties of Finney, Kearny or Hamilton, and one Kansas representative shall be the chief State official charged with the administration of water rights in Kansas. The President of the United States is hereby requested to designate a representative of the United States, and if a representative is so designated he shall be an ex-officio member and act as chairman of the Administration without vote.
- D. The State representatives shall be appointed by the respective Governors within thirty days after the effective date of this Compact. The Administration shall

meet and organize within sixty days after such effective date. A quorum for any meeting shall consist of four members of the Administration: Provided, that at least two members are present from each State. Each State shall have but one vote in the Administration and every decision, authorization or other action shall require unanimous vote. In case of a divided vote on any matter within the purview of the Administration, the Administration may, by subsequent unanimous vote, refer the matter for arbitration to the Representative of the United States or other arbitrator or arbitrators, in which event the decision made by such arbitrator or arbitrators shall be binding upon the Administration.

- E. (1) The salaries, if any, and the personal expenses of each member shall be paid by the government which he represents. All other expenses incident to the administration of this Compact which are not paid by the United States shall be borne by the States on the basis of 60 per cent by Colorado and 40 per cent by Kansas.
- (2) In each even numbered year the Administration shall adopt and transmit to the Governor of each State its budget covering anticipated expenses for the forthcoming biennium and the amount thereof payable by each State. Each State shall appropriate and pay the amount due by it to the Administration.
- (3) The Administration shall keep accurate accounts of all receipts and disbursements and shall include a statement thereof, together with a certificate of audit by a certified public accountant, in its annual report. Each State shall have the right to make an examination and audit of the accounts of the Administration at any time.
- F. Each state shall provide such available facilities, equipment and other assistance as the Administration may need to carry out its duties. To supplement

such available assistance the Administration may employ engineering, legal, clerical and other aid as in its judgment may be necessary for the performance of its functions. Such employees shall be paid by and be responsible to the Administration, and shall not be considered to be employees of either State.

- G. (1) The Administration shall cooperate with the chief official of each State charged with the administration of water rights and with Federal agencies in the 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. The Administration shall cooperate in the procurement, interchange, compilation and publication of all factual data bearing upon the Administration of this Compact without, in general, duplicating measurements, observations or publications made by State or Federal agencies. State officials shall furnish pertinent factual data to the Administration upon its request. The Administration shall, with the collaboration of the appropriate Federal and State agencies, determine as may be necessary from time to time, the location of gaging stations required for the proper administration of this Compact and shall designate the official records of such stations for its official use.
- (2) The Director, U. S. Geological Survey, the Commissioner of Reclamation and the Chief of Engineers, U. S. Army, are hereby requested to collaborate with the Administration and with appropriate State officials in the systematic determination and correlation of data referred to in paragraph G (1) of this Article and in the execution of other duties of such officials which may be necessary for the proper administration of this Compact.
- (3) If deemed necessary for the administration of this Compact, the Administration may require the installation and maintenance, at the expense of water

users, of measuring devices of approved type in any ditch or group of ditches diverting water from the Arkansas River in Colorado or Kansas. The chief official of each State charged with the administration of water rights shall supervise the execution of the Administration's requirements for such installations.

H. Violation of any of the provisions of this Compact or other actions prejudicial thereto which come to the attention of the Administration shall be promptly investigated by it. When deemed advisable as the result of such investigation, the Administration may report its findings and recommendations to the State official who is charged with the administration of water rights for appropriate action, it being the intent of this Compact that enforcement of its terms shall be accomplished in general through the State agencies and officials charged with the administration of water rights.

- I. Findings of fact made by the Administration shall not be conclusive in any court or before any agency or tribunal but shall constitute prima facie evidence of the facts found.
- J. The Administration shall report annually to the Governor of the States and to the President of the United States as to matters within its purview.

ARTICLE IX

A. This Compact shall become effective when ratified by the Legislature of each State and when consented to by the Congress of the United States by legislation providing substantially, among other things, as follows:

Nothing contained in this Act or in the Compact herein consented to shall be construed as impairing or affecting the sovereignty of the United States or any of its rights or jurisdiction in and over the area or waters which are the

subject of such Compact: Provided, that the Chief of Engineers is hereby authorized to operate the conservation features of the John Martin Reservoir Project in a manner conforming to such Compact with such exceptions as he and the Administration created pursuant to the Compact may jointly approve.

B. This Compact shall remain in effect until modified or terminated by unanimous action of the States and in the event of modification or termination all rights then established or recognized by this Compact shall continue unimpaired.

IN WITNESS WHEREOF, The commissioners have signed this Compact in triplicate original, one of which shall be forwarded to the Secretary of State of the United States of America and one of which shall be forwarded to the Governor of each signatory State.

• DONE in the City and County of Denver, in the state of Colorado, on the fourteenth day of December, in the Year of our Lord One Thousand Nine Hundred and Forty-eight.

Henry C. Viday

Gail L. Ireland

Trany B. Mendenhall

ATTEST:

Commissioners for Colorado

Warden L. Noe, Secretary

C. C. C.

William E. Leavitt

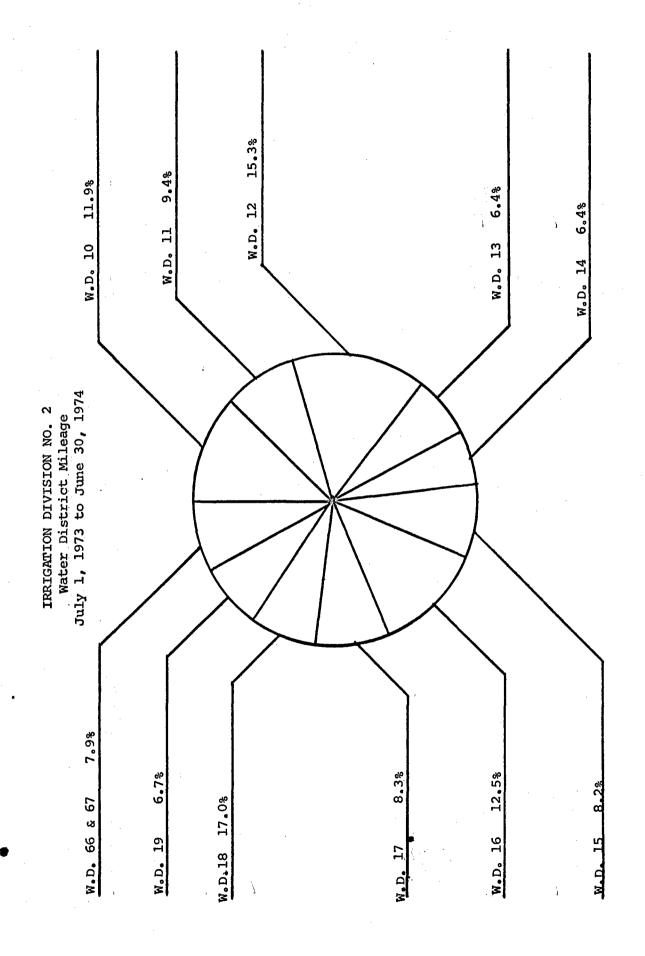
APPROVED:

Roland H. Tate

Representative of the

United States

Commissioners for Kansas



Total Miles for Water Districts: 208,748 Miles.

PERSONNEL

Division No. 2

DIVISION OF WATER RESOURCES

Fiscal Year 7/1/73 to 6/30/74

NAME	POSITION	DISTRICT	MONTHS WORKED	MILEAGE
Rudy Styduhar	Division Engineer	Division 2	Full Time	4,050
Robert W. Jesse	Asst. Div. Engr.	Division 2	Full Time	9,734
Robert Ermel	Water Commissioner	District 10	Full Time	16,438
George Wichmann	Deputy Water Commissioner	District 10	5 months	8,342
Jim Everett	Water Commissioner	District 11	Full Time	11,970
John Farwell	Deputy Water Commissioner	District 11	5.3/4 months	4,341
Larry Brown	Deputy Water Commissioner	District 11	6 1/2 months	3,266
Jack McDonough	Water Commissioner	District 12	Full Time	16,063
Byron Bean	Deputy Water Commissioner	District 12	1/4 month	469
Tom Young	Deputy Water Commissioner	District 12	5 months	5,673
Neil McGee	Deputy Water Commissioner	District 12	6 1/4 months	9,705
Gayle Patterson	Water Commissioner	District 13	Full Time	8,055
Casper Seybold	Deputy Water Commissioner	District 13	3 2/3 months	2,633
Don Stuart	Deputy Water Commissioner	District 13	2 1/5 months	2,586

NAME	POSITION	DISTRICT	MONTHS WORKED	MILEAGE
Frank Perko	Administrative Assistant	District 14	Full Time	13,370
Ralph Barnhart	Water Commissioner	District 15	Full Time	17,085
Robert Brgoch	Water Commissioner	District 16	Full Time	14,875
Augustine Garcia	Water Commissioner	District 16	11 months	11,226
William Pattie	Water Commissioner	District 17	Full Time	17,387
George Watson	Deputy Water Commissioner	District 17	0	. 0
George Stakich	Water Commissioner	District 18	10 months	14,714
Henry Marques	Water Commissioner	District 19	Full Time	13,747
John Cusimano	Deputy Water Commissioner	District 19	1/3 month	31
Manuel Vigil	Deputy Water Commissioner	District 19	1/3 month	248
Lane Hackett	Water Commissioner	District 66 &67	Full Time	16,286
Robert Clodfelter	Deputy Water Commissioner	District 66 & 67	2/5 month	228
Kenneth Cooper, Jr	Hydrographer	Division No. 2	Full Time	None
Jim Kasic	Hydrograp her	Division No. 2	Full Time	None
Larry Sanders	Hydrographer	Division No. 2	Full Time	None
Juanita Tafoya	Administrative Clerk Typist	Division No. 2	Full Time	None
Gary Largent	1042 Water Commissioner	Division No. 2	Full Time	None
Total Miles Water Commissioners:	ommissioners: 208,748			

Total Miles Division Engineer and Assistant:

Total Miles: 221,532

70

SOUTHERN COLORADO WATER CONSERVANCY District 905 HIGHWAY 50 WEST P.O. BOX 440 PUEBLO, COLORADO 81002

OFFICERS

Thomas W. McCurdy, President, Rt. 1 Box 165, Olney Springs, Colo. 81062

Roy D. Cooper, Vice President, 1436 W. 6th. St., Las Animas, Colo. 81054

Leon C. Hook, Treasurer, 804 Rudd, Canon City, Colorado 81212

Charles L. Thomson, General Manager, P. O. Box 440, Pueblo, Colorado 81002

Charles J. Beise, Attorney for the District, 1536 First National Bank Building, Denver, Colo. 80201

George E. Everett, 9750 County Road 160, Rainbow Blvd., Salida, Colorado 81201

DIRECTORS

Dave Ciruli, Rt. 4 Box 793, Pueblo, Colorado 81004

Dr. Wendell Hutchinson, D.V.M., Rainbow Blvd., Salida, Colo. 81201

John P. Huebsch, 27 Oak Ave., Colorado Springs, Colo. 80906

John E. Javernick, 3205 Hale, Canon City, Colorado 81212

Frank Milenski, RR. 1, La Junta, Colorado 81050

Raymond D. Nixon. 2519 Prairie Road, Colorado Springs, Colo. 80909

Ralph Adkins, P.O. Box 316, Pueblo, Colorado 81003

Kenneth Carter, Rt. 1, Ordway, Colorado

Robert E. Northrup, 501 Steward, Lamar, Colo. 81052

Alferd Putnam, 305 St. Vrain, Las Animas, Colo. 81054

WATER RELATED ORGANIZATIONS

IRRIGATION DIVISION NO. 2 Pueblo, Colorado

A.J. Anderson Irrigation Company, Charles Haberman, Rt. 1, La Junta, Colo. 81050 Avondale Water & Sanitation District, Mrs. Gloria Vialpando, President, P.O. Box 77 Avondale, Colorado 81022

Beaver Park Water Company, Penrose, Colorado 81240

Beehive Water Association, John F. Watters, Cheraw, Colorado 81030

Bent's Fort Water Association, Walter V. Henning, President, 105 Ash, La Junta, Colorado 81050

Bessemer Irrigating Ditch Company, Bill Mullin, 711 Thatcher Building, Pueblo, Colorado 81003

Canon City Oil Creek Ditch Company, L. Peterson, President, Canon City, Colo. 81212
Canon City Heights Irrig. Co., E.B. Woodford, Sec. 609 River, Canon City, Colo.
Canon City Hydraulic Irrig. Co., E. Carpenter, President, Harrison Bldg. Canon City,
Colorado 82121

Catlin Canal Co., Wayne W. Whittaker, P.O. Box 352, Rocky Ford, Colo. 81067 Collier Ditch Co., John Stahl, Rt. 1 Box 25, Boone, Colo. 81025

Crowley County Water Assoc., Harley Ruscher, President, P.O. Box 487, Ordway, Colorado 81062

DeWeese Dye Ditch Company, Raymond Koch, 1400 S. 2nd. St., Canon City, Colo. East End Water Company, Harry Froese, Secretary, Rt. 2, La Junta, Colo. 81050 Eureka Water Company, Ralph Read, P.O. Box 5, Rocky Ford, Colo. 81067 Excelsior Ditch Company, Joe Mahaney, Superintendent, Rt. 2 Box 231, Pueblo, Colorado 81004

Fayette Water Assoc. John Schweizer, Jr., Secretary, Rt. 1 Box 311, Rocky Ford, Colorado, 81067

Fort Lyons Canal Company, Al Putnam, Las Animas, Colorado 81054
Fremont County Ditch Company, Lola McBeth, 105 S. Pikes Peak Ave., Florence,
Colorado 81226

Hasty Water Company, Earl Eckerett, Hasty, Colorado 81044
Highland Water Supply Co., Frank Vance, President, Blende, Colorado 81004
Hilltop Water Company, Jerry Clevenger, Secretary, Rocky Ford, Colo. 81067
Holbrook Center Soft Water, J.B. Shenk, Secretary, Cheraw, Colo. 81030
Holbrook Mutual Irrigation Company, Neal Marlin, Rt. 2, La Junta, Colo. 81050
Las Animas Consolidated Ditch Company, Delbert Wallace, Rt. 1 Box 19,
Las Animas, Colorado 81054

Lombard Village Water Association, Levi Martinez, Attorney at Law, Thatcher Bldg., Pueblo, Colorado 81003

May Valley & Pleasant Valley Water Assoc., Leonard Courkamp, Wiley, Colorado 81092 McClave Water Association, Harold Falconburg, McClave, Colorado 81057 Newdale-Grand Valley Company, Ernest P. Campbell, President, Rt. 2 Box 292, Rocky Ford, Colorado 81067

Otero Canal Company, Earl Beegles, Box 980 La Junta, Colorado 81050 Oxford-Farmers Ditch Company, George Henrie, Fowler, Colorado 81039
Park Center Water District, George Smith, P.O. Box 860, Canon City, Colo. 81212
Patterson Valley Water Company, David E. Smith, Treasurer, Rt. 1 Rocky Ford, Colo. Penrose Water District, Orlin Fields, Sec. Treas. 1102 So. S. St., Penrose, Colo. 96 Pipeline Company, Warren B. Arbuthnot, President, Ordway, Colo. 81063
Pueblo Board of Water Works, P.O. Box 400, Pueblo, Colo.

Riverside Water Company, Edward T. Jung, Secretary, Rt. 1 Box 100, Rocky Ford, Colorado 81067

- Rocky Ford Ditch Company, George A. Watson, Rt. 1, Manzanola, Colo. 81058 Salt Creek Water & Sanitary District, Endelecio Garcia, 1022 Palo Alto, Pueblo, Colo. 81004
- Security Water District, Thomas K. Remple, 231 Security Blvd., Security, Colorado
- South Canon Ditch Company, John Griffin, President, P.O. Box 213, Canon City, Colorado 81212
- Southside Water Association, John Evers, President, RR 2, La Junta, Colo. 81050 South Swink Water Company, Fred Trimble, Secretary, La Junta, Colo. 81050 St. Charles Mesa Water Association, Lee Simpson, Manager, Roselawn Road, Pueblo Colorado 81004
- Stratmoor Hills, J. Fred Abrahamson, 311 Catillima Drive, Stratmoor Hills, Colo. Sugar City Pipeline Company, Henry Herman, Jr., Secretary, Sugar City, Colo. 81076 Twin Lakes Reservoir & Canal Company, Thomas McCurdy, Rt. 1 Box 165, Olney Springs, Colorado 81062
- Union Ditch Company, Erick A. Roberts, 105 E. Main, Florence, Colorado 81226
 Valley Water Company, Albert Stover, Secretary, Manzanola, Colorado 81058
 Broman Water Company, Albert Stover, Secretary, Manzanola, Colorado 81058
 West Grand Valley Water, Inc., Blain Malott, Box 182, Rocky Ford, Colo. 81067
 West Holbrook Pipeline Company, Roy Wadleigh, Secretary, Rt. 2 Box 302 La Junta,
 Colorado
- West Pueblo Ditch Company, Ted Donley, Superintendent, Hyde Park Dairy, P.O. Box 397, Pueblo, Colorado 81002
- Widefield Homes Water & Sanitation, James C. Perry, Sr., 3 Widefield, Widefield, Colorado 80911