INTRODUCTORY STATEMENT

ANNUAL DIVISION ENGINEERS REPORT
IRRIGATION DIVISION NO. 2

1977

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.

OUTLINE FOR ORAL PRESENTATION

1977 was one of the driest years in my memory as far as stream flow in Division 2 was concerned. However, total precipitation was not dramatically low (being about 70%) and the timing and amounts generally were good. Overall, when all factors were considered, it was an average to slightly below average year yield-wise. Dry-land wheat, despite early winds, was generally good. The price, as usual when you have a good year, was not at all good. Irrigated land was about the same; fortuitiously timely precipitation and a little winter storage as a hedge against the river call made for a fair yield.

Much ado has been made about the farmers' strike, but we have no reports of any fields being plowed up, and in no instance have we heard of anyone not taking his irrigation water.

Litigation is again our major endeavor. We have enjoyed two more extremely bitter court hearings on the Purgatoire case that Kupe and I talked about last year, concerning a Corp of Engineers and Bureau of Reclamation Project that suffers from an acute case of lack of planning. One of these cases we won - - at least two more trials are in the works and the preceeding two are in the Supreme Court.

There seems to be a lot of interest and comment on water sales. It seems the going rate is about 1,000 dollars for each irrigated acre and some shares have been sold at public auction. The Public Service has made offers on one entire ditch company with the intent to construct a new power plant. If constructed, that will make three installations in Division 2 in the last 5 years. All are coal fired with fuel coming from Routt County and northern Wyoming. It looks like the pace is picking up in industrial development.

In Division 2 Water Court there are cases that should be attended on at least one half of the working days in a year. It is impossible to attend all of these as our Judge is from Lamar and the Supreme Court has encouraged him to conduct as many hearings as possible in Lamar, which is over 120 miles away. The statute requires attendance on protested rulings of referees, and of course when subpoenaed. We are lucky that in our Division there are three of us and we can make some of the more important cases. One thing that worries me is the provision under SB 4 that referees can rule on plans of augmentation. This requires a consultation and for this consultation to have any meaning, some preparation must be done. Otherwise, the consultation is a farce or worse. We need more personnel, more money, and more time for the part-time people, and possibly an end to the drought, if that can be arranged.

We have had excellent cooperation with all in Denver over the last year, and surely do appreciate all the help we get. It got us through another extremely dry and difficult year.

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DIVISION ENGINEERS COMMENTS

Snow pack in 1977 water year was considerably below normal and the run-off was minimal. Water rights that almost always diverted during snow melt were, in most cases, not able to divert at all. The run-off was, however, fairly well timed, and very efficient diversion was made. Rain fall later during the rest of the irrigation season was spotty over the division, but again, was generally well timed, with its severity increasing east of Pueblo. Generally this year was below normal overall, but with winter storage water and well timed precipitation, average to slightly below average crops were realized.

There were two significant periods of flood activity; each consisted of several days of intermittent heavy thunder showers. A further reference will be made in the hydrographic section. Unlike last year, no significant temporary storage occurred in Pueblo Reservoir. There was inadvertant out-of-priority storage in Cucharas Reservoir and Black Hills Reservoir. In both cases this water was ordered released, and the order was, after some discussion, complied with.

The enforcement program for ground water Rules and Regulations, after the judge staid his last year's ruling, was implemented about as last year with well owners being contacted and advised of their impact. We did this through the Attorney General seeking an injunction and the case was disposed of when the well owner agreed to comply and a suitable order was issued by the court.

This year, as last, a great amount of time was spent by the Division Engineer and staff in the Water Court. The Water Court is becoming more time consuming as cases become more complex and more interest is shown by protestors. Most cases now go to trial, or at least to hearing before the referee. Since the Division is generally either subpoenaed as a witness or required by statute (in the case of protested rulings of referees) to be present in court, some preparation is mandatory. The legal end of Division business could conceivably occupy at least one man continuously.

The preparation for the 1978 tabulation is taking a considerable amount of time now, and it can be anticipated on publication will generate a tremendous amount of office traffic which could mean additional personnel in the clerical area.

The water commissioners' diversion records were key punched in the Division office, and while this does constitute a departure from last year, appears to have more advantages than disadvantages.

The hydrographic section maintained 22 gaging stations and monitored 9 transmountain stations (copies of these records are enclosed). One unpublished gage on Texas Creek was discontinued during the year as the effort to rehabilitate it exceeded its administrative value. The gage at Huerfano near Red Wing was destroyed in a flood in August and subsequently

re-built by Division personnel, assisted by Wayne Crosby from Denver. The peak flow was estimated in excess of 20,000 c.f.s. This was moderately destructive at the site, but due to its extremely short duration (less than 1 hour) did very little damage except to the road and gage.

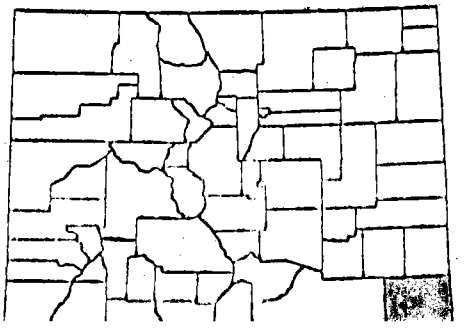
The Fry-Ark Project has continued on schedule of construction, with the largest ramaining dam (Twin Lakes) being let out for bid in the Fall of 1977. The attacks on the Fry-Ark by environmental groups, both in the courts and in congress, have been especially vicious. To date they have been unsuccessful in slowing construction, but the costs have been enormous to the Project for environmental, both preservation and enhancement. Winter water storage was again implemented on a unanimous agreement, and seemed to be highly beneficial to all participants. A unique feature was the storage of water in John Martin by one of the entities. This is covered in detail in the Winter Water segment of this report.

In summary, it has been a dry year, but timely precipitation and some stored Winter Water caused a near average crop. Prices for farm products have been very low, and attendant costs to farmers have risen, in some cases dramatically. Costs for fuel and power cannot help but increase even more in the future. Some marginal operations are in financial difficulty. The attitude of the agricultural water users has become markedly more litigious and hostile. Precipitation enhancement, if any, has had no measurable effect at this time. Although an accelerated program is underway, prospects for next irrigation season are not good.

IRRIGATION DIVISION II

BACA COUNTY

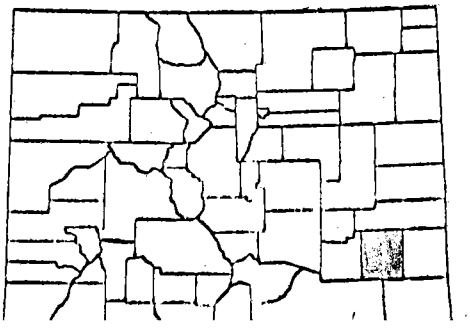
MAJOR CITY	Springfield
1970 POPULATION	5,516
URBAN POPULATION	No city over 2,500
RURAL POPULATION	5,516
COUNTY AREA	2,565 Sq. Miles
TERRAIN	Plains
ELEVATION (MAJOR CITY)	4,356
MAJOR STREAM	Carrizo
MAJOR TRIBUTARY	None
MAJOR WATER USE	Irrigation
IRRIGATED ACRES	56,910
AVERAGE GROWING SEASON	169 days
ANNUAL 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
LAND OWNERSHIP	
PRIVATE	1,736,612 acres
FEDERAL	205,500 acres
STATE	42,928 acres
COUNTY AND MUNICIPAL	86 acres



IRRIGATION DIVISION II

BENT COUNTY

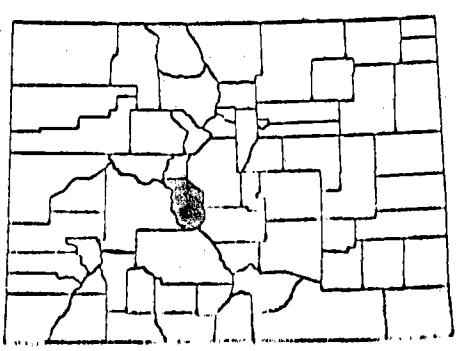
MAJOR CITY	Las Animas
1970 POPULATION	6,343
URBAN POPULATION	2,955
RURAL POPULATION	3,388
COUNTY AREA	1,517 Sq. Miles
TERRAIN	Plains
ELEVATION (MAJOR CITY)	3,901
MAJOR STREAM	Arkansas
MAJOR TRIBUTARY	Purgatoire
MAJOR WATER USE	Irrigation
IRRIGATED ACRES	45,292
AVERAGE GROWING SEASON	158 Days
ANNUAL MEAN 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	Fryingpan
LAND OWNERSHIP	
PRIVATE	939,722 acres
FEDERAL	10,233 acres
STATE	142,673 acres
COUNTY AND MUNICIPAL	147 acres



IRRIGATION DIVISION II

CHAFFEE COUNTY

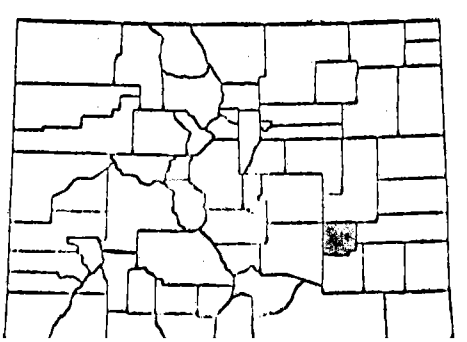
MAJOR CITY	Salida
1970 POPULATION	9,663
URBAN POPULATION	4,322
RURAL POPULATION	5,341
COUNTY AREA	1,039 Sq. Miles
TERRAIN	Mountainous
ELEVATION (MAJOR CITY)	7,036
MAJOR STREAM	Arkansas
MAJOR TRIBUTARY	South Arkansas
MAJOR WATER USE	Irrigation
IRRIGATED ACRES	16,216
AVERAGE GROWING SEASON	112 Days
ANNUAL 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	Fryingpan
LAND OWNERSHIP	
PRIVATE	128,736 acres
FEDERAL	502,651 acres
STATE	20,103 acres
COUNTY AND MUNICIPAL	3,511 acres



IRRIGATION DIVISION II

CROWLEY COUNTY

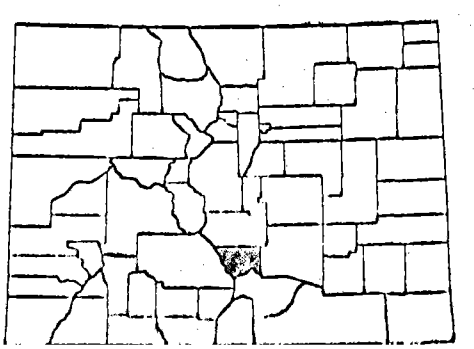
MAJOR CITY	Ordway
1970 POPULATION	2,947
URBAN POPULATION	No city over 2,500
RURAL POPULATION	2,947
COUNTY AREA	803 Sq. Miles
TERRAIN	Plains
ELEVATION (MAJOR CITY)	4,312
MAJOR STREAM	Horse Creek
MAJOR TRIBUTARY	None
MAJOR WATER USE	Irrigation
IRRIGATED ACRES	25,010
AVERAGE GROWING SEASON	162 days
ANNUAL 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	Fryingpan
LAND OWNERSHIP	
PRIVATE	531,034 acres
FEDERAL	5,054 acres
STATE	52,711 acres
COUNTY AND MUNICIPAL	897 acres



IRRIGATION DIVISION II

CUSTER COUNTY

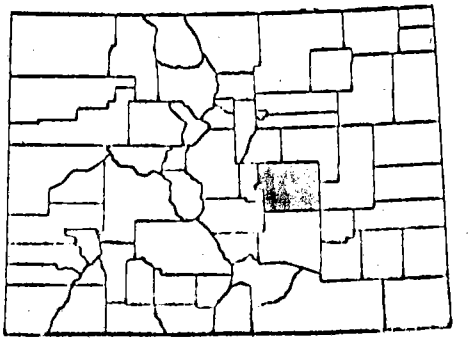
MAJOR CITY	Westcliffe
1970 POPULATION	1,028
URBAN POPULATION	No city over 2,500
RURAL POPULATION	1,028
COUNTY AREA	737 Sq. Miles
TERRAIN	Mountain Valley
ELEVATION (MAJOR CITY)	7,888
MAJOR STREAM	Grape
MAJOR TRIBUTARY	Texas
MAJOR WATER USE	Irrigation
IRRIGATED ACRES	15,930
AVERAGE GROWING SEASON	86 days
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



IRRIGATION DIVISION II

EL PASO COUNTY

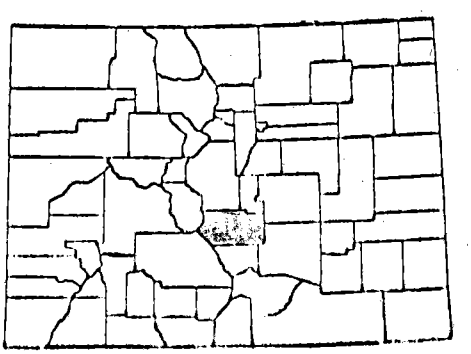
MAJOR CITY	Colorado Springs
1970 POPULATION	229,113
URBAN POPULATION	200,145
RURAL POPULATION	27,968
COUNTY AREA	2,158 Sq. Miles
TERRAIN	Foothills
ELEVATION (MAJOR CITY)	6,012
MAJOR STREAM	Fountain
MAJOR TRIBUTARY	Monument
MAJOR WATER USE	Commercial & Irrig.
IRRIGATED ACRES	13,630
AVERAGE GROWING SEASON	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, Fryingpan, Homestake
LAND OWNERSHIP	
PRIVATE	981,504 acres
FEDERAL	187,866 acres
STATE	192,482 acres
COUNTY AND MUNICIPAL	14,839 acres



IRRIGATION DIVISION II

FREMONT COUNTY

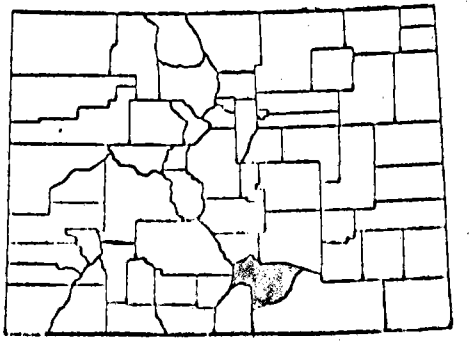
MAJOR CITY	Canon City
1970 POPULATION	20,220
URBAN POPULATION	11,917
RURAL POPULATION	8,303
COUNTY AREA	1,562 Sq. Miles
TERRAIN	Foothills
ELEVATION (MAJOR CITY)	5,332
MAJOR STREAM	Arkansas
MAJOR TRIBUTARY	Grape
MAJOR WATER USE	Irrigation
IRRIGATED ACRES	14,930
AVERAGE GROWING SEASON	164 days
ANNUAL MEAN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



IRRIGATION DIVISION II

HUERFANO COUNTY

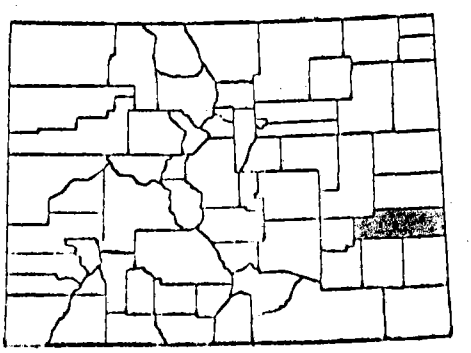
MAJOR CITY	Walsenburg
1970 POPULATION	6,410
URBAN POPULATION	4,227
RURAL POPULATION	2,133
COUNTY AREA	1,578 Sq. Miles
TERRAIN	Mesa, Tableland
ELEVATION (MAJOR CITY)	6,185
MAJOR STREAM	Huerfano
MAJOR TRIBUTARY	Cucharas
MAJOR WATER USE	Irrigation
IRRIGATED ACRES	11,453
AVERAGE GROWING SEASON	151 days
ANNUAL MEAN TEMPERATURE	50.2
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	43,525 acres
COUNTY AND MUNICIPAL	320 acres



IRRIGATION DIVISION II

KIOWA COUNTY

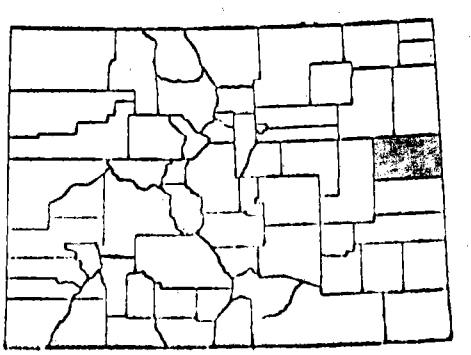
MAJOR CITY	Eads
1970 POPULATION	2,006
URBAN POPULATION	No city over 2,500
RURAL POPULATION	2,006
COUNTY AREA	1,792 Sq. Miles
TERRAIN	Plains
ELEVATION (MAJOR CITY)	4,213
MAJOR STREAM	Big Sandy
MAJOR TRIBUTARY	None
MAJOR WATER USE	Irrigation
IRRIGATED ACRES	5,127
AVERAGE GROWING SEASON	156 days
ANNUAL 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	1,413,911 acres
FEDERAL	3,975 acres
STATE	70,893 acres
COUNTY AND MUNICIPAL	365 acres



IRRIGATION DIVISION II

KIT CARSON COUNTY

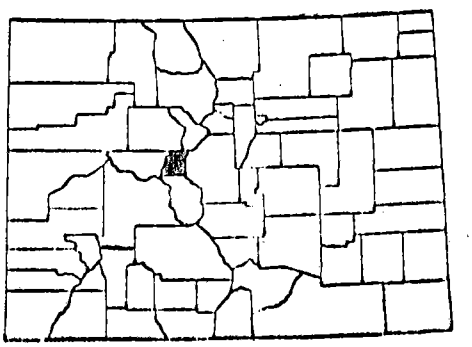
MAJOR CITY	Burlington
1970 POPULATION	7,379
URBAN POPULATION	2,784
RURAL POPULATION	4,595
COUNTY AREA	1,171 Sq. Miles
TERRAIN	Plains
ELEVATION (MAJOR CITY)	4,163
MAJOR STREAM	Republican
MAJOR TRIBUTARY	None
MAJOR WATER USE	Irrigation
IRRIGATED ACRES	56,576
AVERAGE GROWING SEASON	154 days
ANNUAL MEAN 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	1,324,600 acres
FEDERAL	292 acres
STATE	56,486 acres
COUNTY AND MUNICIPAL	985 acres



IRRIGATION DIVISION II

LAKE COUNTY

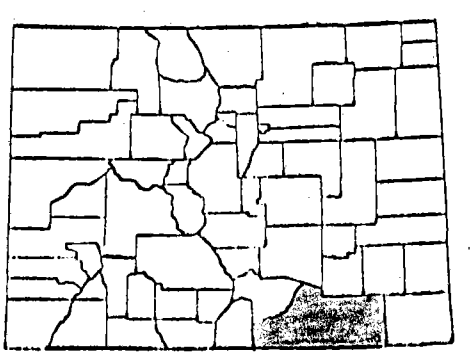
MAJOR CITY	Leadville
1970 POPULATION	8,138
URBAN POPULATION	4,265
RURAL POPULATION	3,873
COUNTY AREA	380 Sq. Miles
TERRAIN	Mountainous
ELEVATION (MAJOR CITY)	10,152
MAJOR STREAM	Arkansas
MAJOR TRIBUTARY	Lake Fork
MAJOR WATER USE	Irrigation
IRRIGATED ACRES	6,036
AVERAGE GROWING SEASON	82 days
ANNUAL MEAN 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	Fryingpan
LAND OWNERSHIP	
PRIVATE	71,342 acres
FEDERAL	198,844 acres
STATE	1,795 acres
COUNTY AND MUNICIPAL	1,620 acres



IRRIGATION DIVISION II

LAS ANIMAS COUNTY

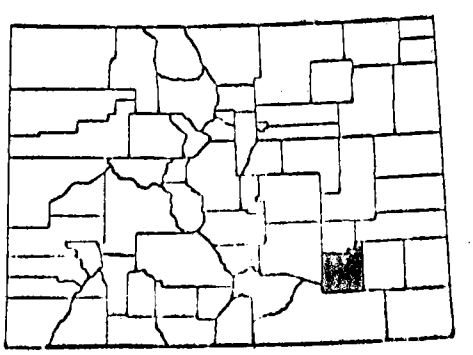
MAJOR CITY	Trinidad
1970 POPULATION	15,291
URBAN POPULATION	9,721
RURAL POPULATION	5,570
COUNTY AREA	4,793 Sq. Miles
TERRAIN	Foothills
ELEVATION (MAJOR CITY)	6,025
MAJOR STREAM	Purgatoire
MAJOR TRIBUTARY	None
MAJOR WATER USE	Irrigation
IRRIGATED ACRES	19,463
AVERAGE GROWING SEASON	156 days
ANNUAL MEAN TEMPERATURE	50.4
AVERAGE ANNUAL RAINFALL	15.03 inches
AVERAGE ANNUAL SNOWFALL	47.7 inches
MAJOR SOURCE INCOME	Agriculture, Coal Mining
NUMBER OF FARMS	200
WATER RESOURCE PROJECTS	Trinidad Dam
LAND OWNERSHIP	
PRIVATE	3,179,204 acres
FEDERAL	151,214 acres
STATE	163,997 acres
COUNTY AND MUNICIPAL	3,482 acres



IRRIGATION DIVISION II

OTERO COUNTY

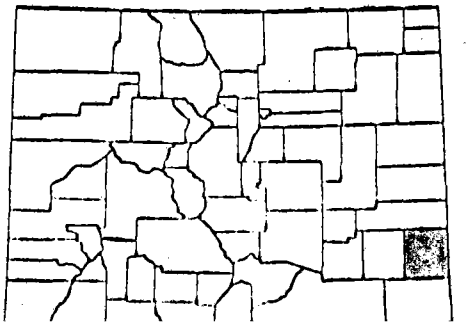
MAJOR CITY	La Junta
1970 POPULATION	22,824
URBAN POPULATION	12,514
RURAL POPULATION	10,310
COUNTY AREA	1,267 Sq. Miles
TERRAIN	Plains
ELEVATION (MAJOR CITY)	La Junta
MAJOR STREAM	Arkansas
MAJOR TRIBUTARY	Horse Creek
MAJOR WATER USE	Irrigation
IRRIGATED ACRES	57,675
AVERAGE GROWING SEASON	162 days
ANNUAL MEAN TEMPERATURE	52.0
AVERAGE ANNUAL RAINFALL	12.31 inches
AVERAGE ANNUAL SNOWFALL	26.7 inches
MAJOR SOURCE INCOME	Agriculture
NUMBER OF FARMS	690
WATER RESOURCE PROJECTS	Fryingpan
LAND OWNERSHIP	
PRIVATE	506,310 acres
FEDERAL	169,004 acres
STATE	120,572 acres
COUNTY AND MUNICIPAL	2,050 acres



IRRIGATION DIVISION II

PROWERS COUNTY

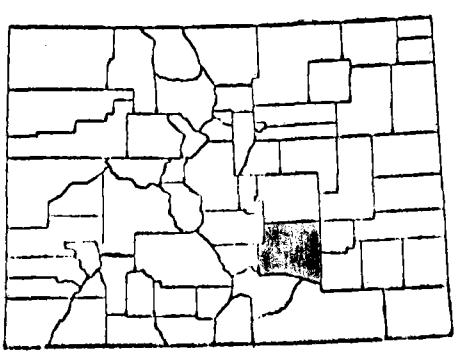
MAJOR CITY	Lamar
1970 POPULATION	12,877
URBAN POPULATION	7,510
RURAL POPULATION	5,367
COUNTY AREA	1,626 Sq. Miles
TERRAIN	Plains
ELEVATION (MAJOR CITY)	3,622
MAJOR STREAM	Arkansas
MAJOR TRIBUTARY	None
MAJOR WATER USE	Irrigation
IRRIGATED ACRES	93,004
AVERAGE GROWING SEASON	163 days
ANNUAL MEAN TEMPERATURE	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	
PRIVATE	996,952 acres
FEDERAL	1,064 acres
STATE	44,667 acres
COUNTY AND MUNICIPAL	1,794 acres



IRRIGATION DIVISION II

PUEBLO COUNTY

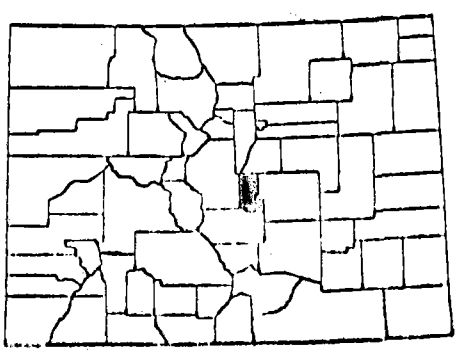
MAJOR CITY	Pueblo
1970 POPULATION	117,212
URBAN POPULATION	106,565
RURAL POPULATION	10,556
COUNTY AREA	2,401 Sq. Miles
TERRAIN	Plains
ELEVATION (MAJOR CITY)	4,696
MAJOR STREAM	Arkansas
MAJOR TRIBUTARY	Fountain
MAJOR WATER USE	Irrigation, Industry
IRRIGATED ACRES	35,749
AVERAGE GROWING SEASON	169 days
ANNUAL MEAN TEMPERATURE	51.2
AVERAGE ANNUAL RAINFALL	12.14 inches
AVERAGE ANNUAL SNOWFALL	31.3 inches
MAJOR SOURCE INCOME	Industry
NUMBER OF FARMS	469
WATER RESOURCE PROJECTS	Fryingpan
LAND OWNERSHIP	
PRIVATE	1,173,389 acres
FEDERAL	76,712 acres
STATE	232,519 acres
COUNTY AND MUNICIPAL	3,045 acres



IRRIGATION DIVISION II

TELLER COUNTY

MAJOR CITY	Cripple Creek
1970 POPULATION	3,033
URBAN POPULATION	No city over 2,500
RURAL POPULATION	3,033
COUNTY AREA	554 Sq. Miles
TERRAIN	Mountainous
ELEVATION (MAJOR CITY)	9,949
MAJOR STREAM	Four Mile
MAJOR TRIBUTARY	None
MAJOR WATER USE	Irrigation, Commercial
IRRIGATED ACRES	865
AVERAGE GROWING SEASON	68 days
ANNUAL MEAN TEMPERATURE	NA
AVERAGE ANNUAL RAINFALL	NA
AVERAGE ANNUAL SNOWFALL	NA
MAJOR SOURCE INCOME	Tourism, Agriculture
NUMBER OF FARMS	10
WATER RESOURCE PROJECTS	None
LAND OWNERSHIP	
PRIVATE	195,257 acres
FEDERAL	156,671 acres
STATE	8,755 acres
COUNTY AND MUNICIPAL	5,598 acres



COUNTY	LAND AREA (1000 A.)	NO. OF FARMS	LAND IN FARMS (1000 A.) TOTAL	CROP LAND	LAND IRRIGATED FARMS	ACRES	WHEAT WINTER	SPRING	OATS
Baca	1642	750	1430	847	171	56,910	42,000	250	----
Bent	971	450	917	145	301	45,292	9,000	50	230
Chaffee	665	170	160	24	121	16,126	---	---	200
Crowley	514	400	490	105	287	25,010	1,150	80	90
Custer	472	180	280	28	85	15,930	160	50	650
El Paso	1381	750	1050	200	121	13,630	17,000	450	1800
Fremont	1000	550	493	30	421	13,920	550	30	80
Huerfano	1010	280	800	48	138	11,453	3,300	10	220
Kiowa	1147	350	1080	600	15	5,127	38,000	300	----
Kit Carson	1389	840	1340	776	213	56,576	165,000	300	900
Lake	243	17	28	6	10	6,036	---	---	----
Las Animas	3068	600	2781	130	227	19,463	3,940	70	290
Otero	811	690	630	87	539	57,675	3,400	100	460
Prowers	1041	729	1030	530	430	93,044	30,500	---	130
Pueblo	1537	800	1362	151	469	35,749	11,000	160	350
Teller	355	70	155	8	10	865	---	---	----

CORN		SORGUHMS		SUGAR	DRY		BROOM		WILD	ALL	
GRAIN	SILAGE	GRAIN	SILAGE	BEETS	BEANS	POTATOES	CORN	ALFALFA	HAY	HAY	BARLEY
10,500	200	90,000	49,500	1,640	100	100	35,700	2,100	100	7,900	600
1,100	1,000	17,500	7,300	460	---	40	---	23,500	250	25,150	370
---	---	---	---	---	---	---	---	5,800	480	9,280	100
1,700	2,900	9,600	740	550	750	20	---	12,500	650	13,750	80
---	50	---	130	---	---	---	---	2,300	---	28,300	210
3,300	4,000	3,400	2,100	---	---	---	---	12,500	3,500	22,900	600
280	280	100	170	---	---	---	---	5,000	850	8,350	270
50	100	---	280	---	---	10	10	5,100	800	7,400	250
190	110	38,000	15,600	50	---	---	---	800	500	10,000	---
27,300	9,000	15,000	22,300	2,200	1,900	---	---	5,200	1,300	20,500	1,400
---	---	---	---	---	---	---	---	---	1,300	1,900	---
700	660	---	4,720	---	---	---	200	12,000	950	12,850	140
4,600	5,700	---	1,660	1,100	660	---	---	14,500	50	15,150	720
1,100	1,500	95,600	41,010	2,430	50	20	100	35,500	---	37,200	---
4,900	1,800	---	4,790	1,390	12,600	100	---	13,500	---	17,950	1,250
---	---	---	---	---	---	---	---	50	550	2,000	---

ADMINISTRATIVE WATER YEAR 1977

Pertinent Basin Yield Statistics for Arkansas Drainage in Colorado Div. 2

Recorded Flow at Arkansas - Las Animas	52,166	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	35,678	A.F.
Estimated Depletion by Irrigation above Gage 1.5 A.F./Acre x 36,000 Acres - 54,000 A.F.	54,000	A.F.
Basin Yield including 70,445 A.F. Transmountain Import	759,844	A.F.
Less	70,445	A.F.
Native Basin Yield above Confluence of Arkansas and Purgatoire River	689,399	A.F.
Total Diversion in Division 2 (except Dists. 66 & 67)	958,625	A.F.

Commentary on Basin Yield and Water Budget Data

In Water Administrative Year 1977, the native basin yield for the Arkansas Basin above confluence of the Purgatoire (including the Purgatoire River) was 689,399 A.F. The Arkansas flow at Las Animas for 1977 was 52,166 A.F. compared to 73,009 A.F. for 1976. The Purgatoire flow at Las Animas for 1977 was 35,678 A.F. compared to 12,352 A.F. for 1976. The main stem of the Arkansas was much drier than average, while the Purgatoire was near average.

The average precipitation over the area (17,920 square miles) was 11.95 inches. This gives a total volume of water of 11,421,013 for the basin. Of this 11,421,013 A.F. only 689,399 A.F. (6.03%) is accounted for in streamflow; the remaining (93.97%) either evaporated, transpired or was retained in the soil.

The diverted water of 958,625 A.F. when compared with native yield plus transmountain imported water indicated the water was used 1.26 times.

COMPARATIVE WATER YEAR 1976, 1977 DATA

	1976	1977
Basin Yield including Transmountain	757,361 A.F.	759,844 A.F.
Total Diverted (excluding W.D. 66 & 67)	1,325,236 A.F.	958,625 A.F.
Average Precipitation	12.62 in.	11.95 in.

DIVERSION DATA

Recorded Diversion by Municipalities: Water Year 1977

Municipal Diversion, Colorado Springs	15,607	
Municipal Diversion, Canon City	11,868	
Municipal Diversion, Pueblo	24,890	
Other	22,909	
Total Recorded Municipal Diversion	75,274	A.F.
Estimated Return Flow	49,680	
Estimated Depletion by Municipalities	25,594	A.F.

Recorded Diversion by Industrial Use

Diversion by Minnequa Canal	87,682	
C.F. & I. Diversion from St. Charles	7,159	
Other	29,706	
Total Industrial Diversion	124,547	A.F.
Estimated Return Flow	74,728	A.F.
Estimated Depletion by Industry	49,819	A.F.

Recorded Diversion by Irrigation

Water District 10	41,881	
Water District 11	88,757	
Water District 12	104,440	
Water District 13	22,859	
Water District 14	143,545	
Water District 15	11,550	
Water District 16	28,764	
Water District 17	248,030	
Water District 18	5,502.23	
Water District 19	32,428.51	
Water District 66	1,614	
Water District 67	88,030	
Total Irrigation Diversion	817,400	A.F.

DIVERSION SUMMARY DIVISION NO. 2
Direct Flow Diversions 1977

W.D.	Active	Inactive		# Ditches Admin.		Irr. Direct Diver. A.F.	# Acres Irrig.	A.F. Per Acre	Rec. & Ind. Use Diver. A.F.	Municipal Diver. A.F.	T. Mtn. Diver. A.F.	Total Diver. A.F.
		N.A.	N.U.	Close	Freq.							
10	45		205	40	4	41,881	10,730	3.90	12,274	16,637	31,048	101,840
11	167		138	167	0	88,757	16,950	5.24				88,757
12	239		93	189	52	104,440	17,606	5.93	87,682	25,516		217,638
13	500		53	361	45	22,859	16,902	1.35	0	0		22,859
14	40		25	34	3	143,545	102,549	1.39	16,499	24,890		184,934
15	82		42	208	18	11,550	4,654	2.48	8,092			19,642
16	244		169	208	37	28,764	29,458	0.98		4,351		33,115
17	44		62	33	7	248,030	363,864	0.68				248,030
18	27		24	25	0	5,502	7,550	0.73		455		5,957
19	105		137	92	13	32,428	10,345	3.13		3,425		35,853
66	7		8	7		1,614	489	3.30				1,614
67	38		108	33	6	88,030	76,348	1.15				88,030
TOTAL	1,538		1064	1252	185	817,400	657,445	1.24	124,547	75,274		1,048,269

TRANSMOUNTAIN DIVERSION

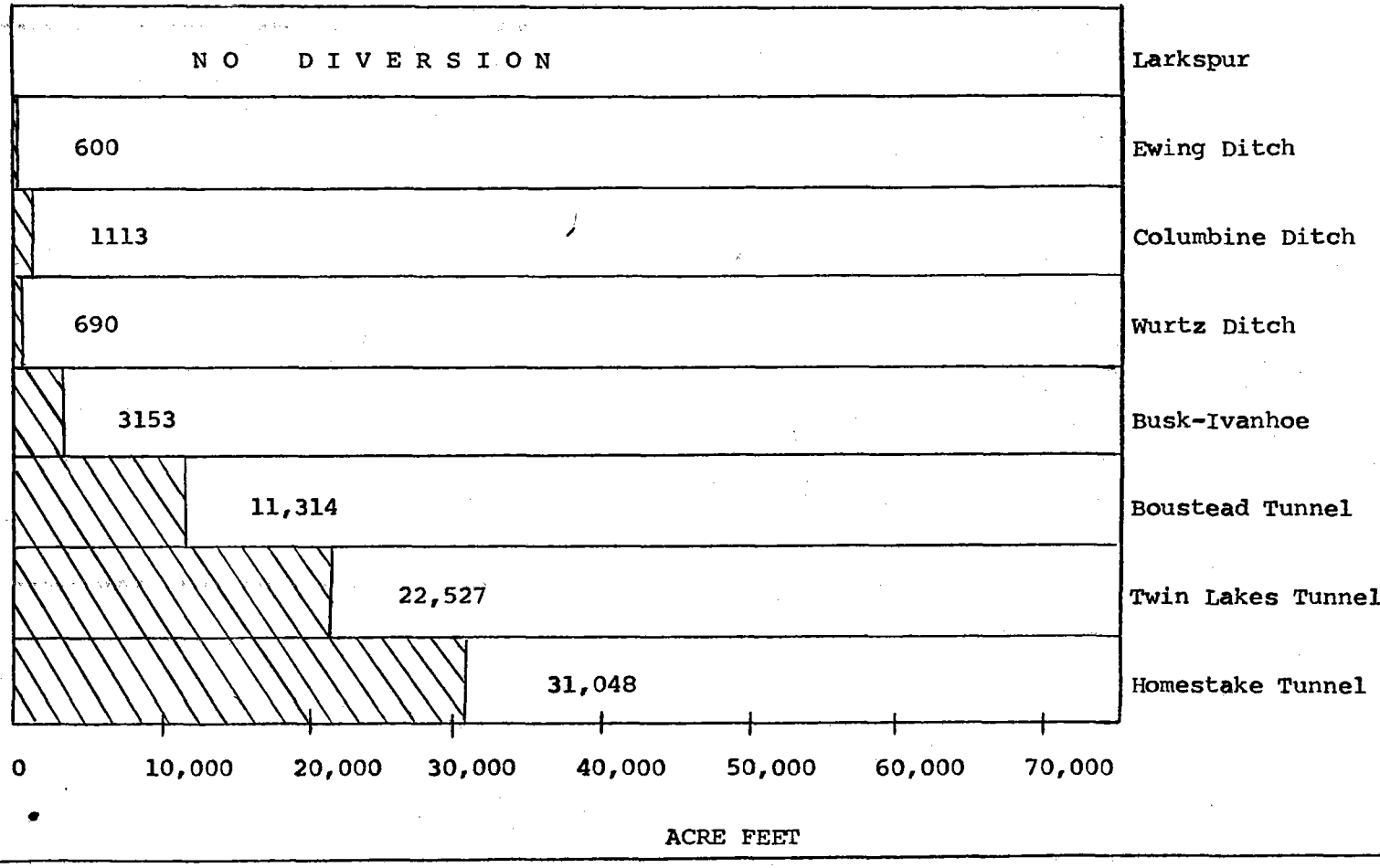
DIVISION NO. 2

Tabulation 1977

NAME	SOURCE	RECIPIENT	AMOUNT DIVERTED 10/1/76 to 9/30/77
Homestake Tunnel	Middle Fork Homestake Creek Div. No. 5	Cities of Colorado Springs and Aurora	31048 acre feet
Wurtz Ditch	Eagle River Div. No. 5	City of Pueblo	690 acre feet
Ewing Ditch	Piney Creek	City of Pueblo	600 acre feet
Columbine Ditch	Eagle River Div. No. 5	City of Pueblo	1113 acre feet
Twin Lakes Tunnel	Roaring Fork River Div. No. 5	Twin Lakes Reservoir and Canal Company	22527 acre feet
Busk Ivanhoe Tunnel	Ivanhoe Creek Div. No. 5	Highline Canal Co. and City of Pueblo	3153 acre feet
Larkspur Ditch	Tomici Creek Div. No. 5	Catlin Canal Company	0 acre feet
Boustead Tunnel	Fryingpan River Div. No. 5	U.S.B.R.	11314 acre feet
		TOTAL	70445 acre feet

TRANSMOUNTAIN DIVERSION
DIVISION NO. 2

SUMMARY OF DIVERSION FOR
WATER YEAR 1977



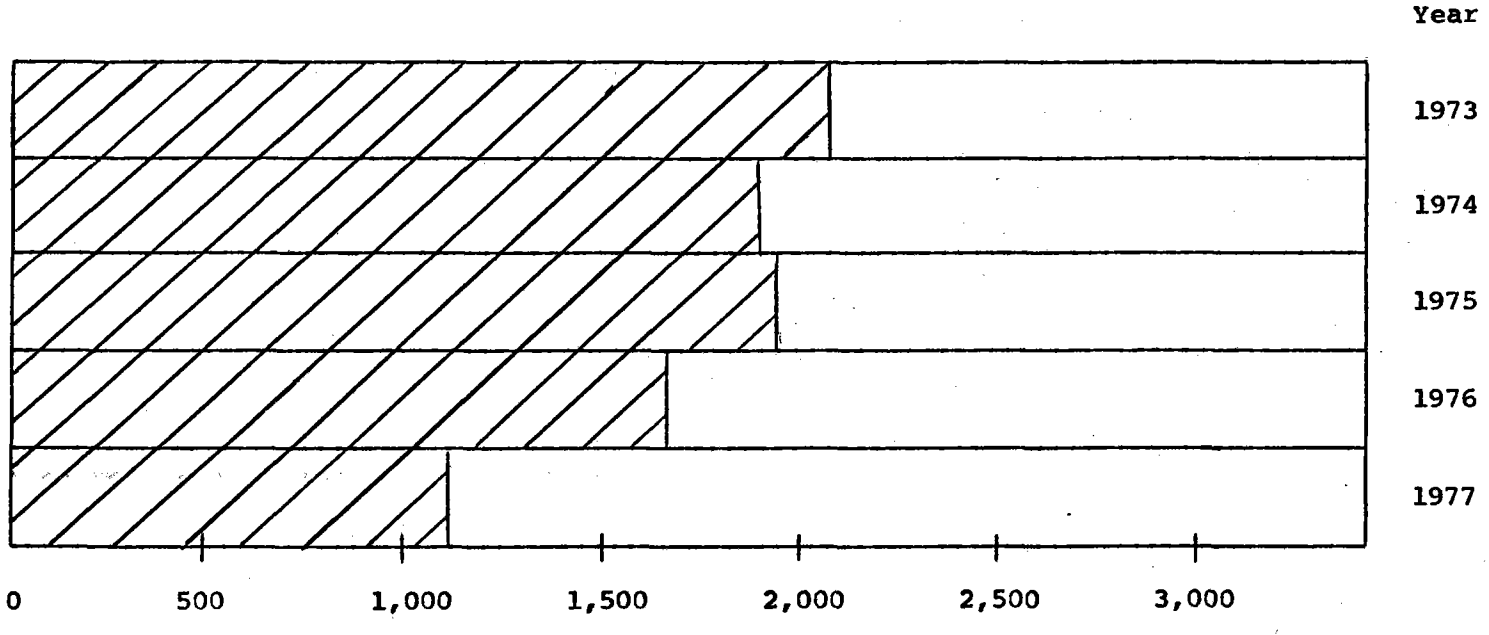
TRANSMOUNTAIN DIVERSION

Division No. 2

COLUMBINE DITCH 1977

Source: Eagle River, Division No. 5

Recipient: City of Pueblo



5 YEAR COMPARISON

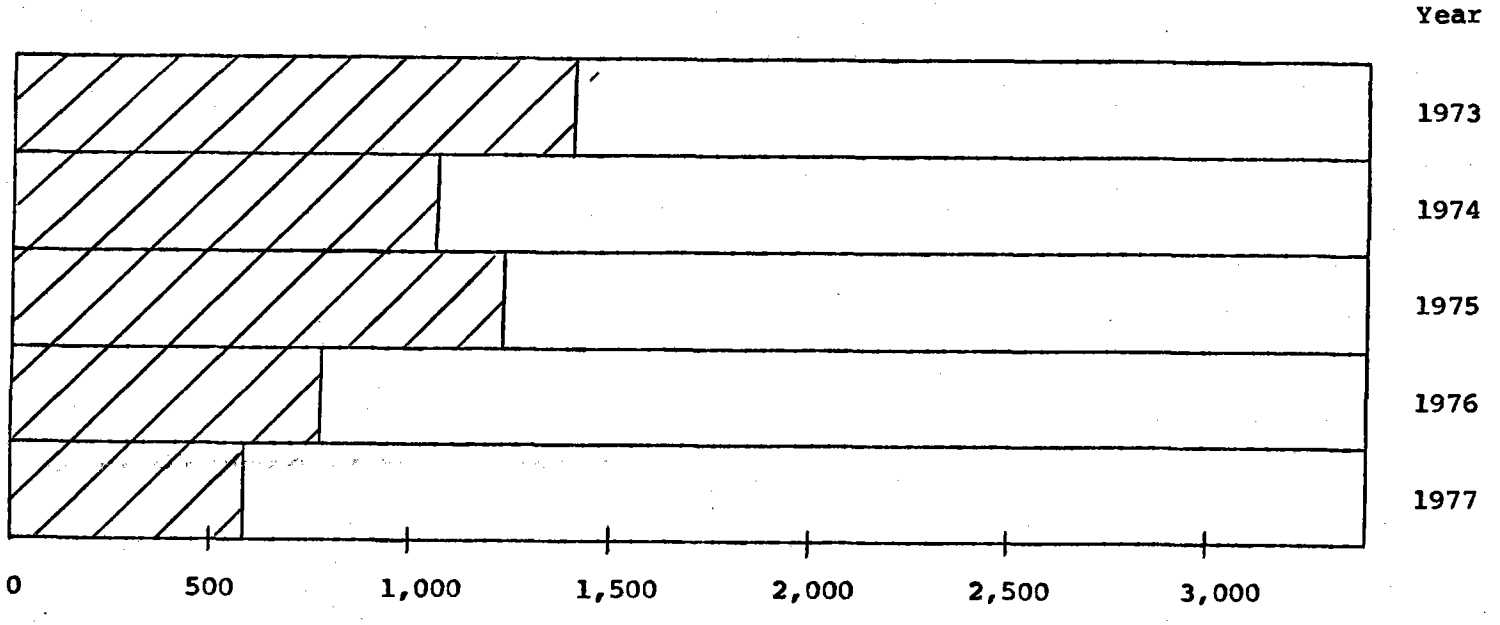
TRANSMOUNTAIN DIVERSION

Division No. 2

EWING DITCH 1977

Source: Piney Creek, Division No. 5

Recipient: City of Pueblo



ACRE FEET

5 YEAR COMPARISON

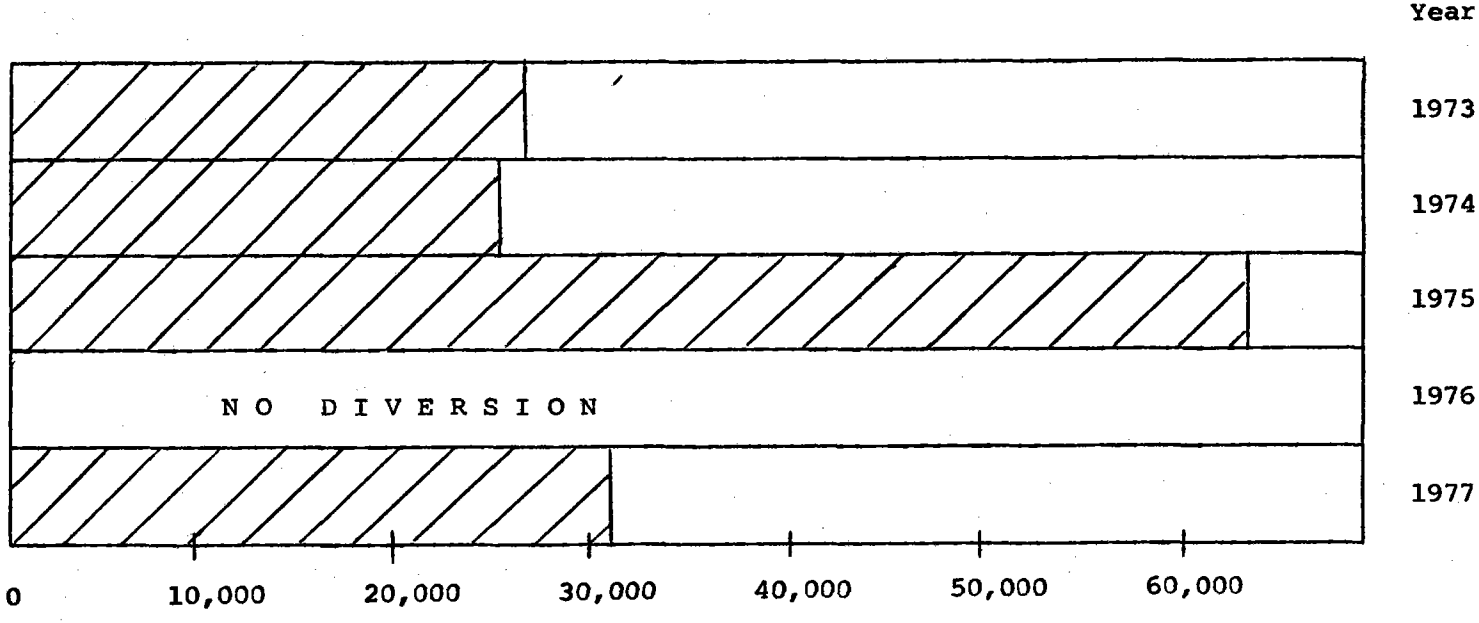
TRANSMOUNTAIN DIVERSION

Division No. 2

HOMESTAKE TUNNEL 1977

Source: Middle Fork Homestake Creek, Division No. 5

Recipient: Cities of Colorado Springs and Aurora



5 YEAR COMPARISON

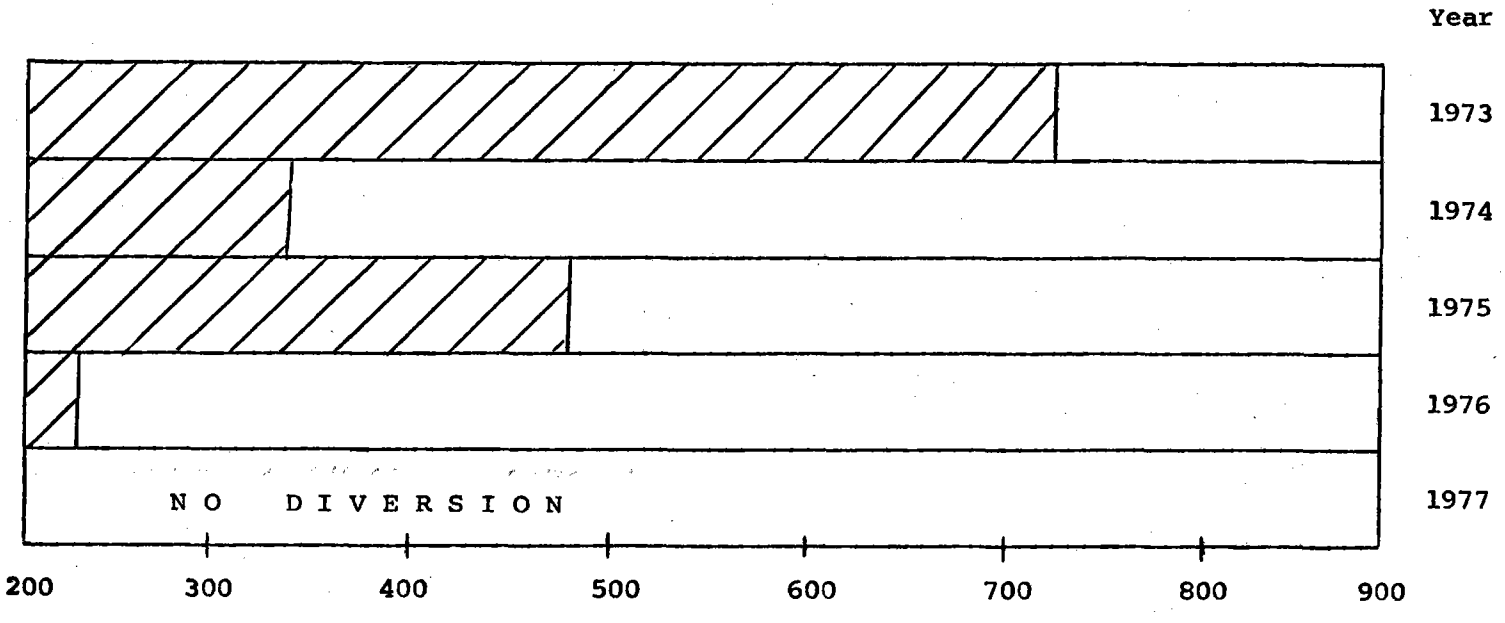
TRANSMOUNTAIN DIVERSION

Division No. 2

LARKSPUR DITCH 1977

Source: Tomici Creek, Division No. 4

Recipient: Catlin Canal Company



ACRE FEET

5 YEAR COMPARISON

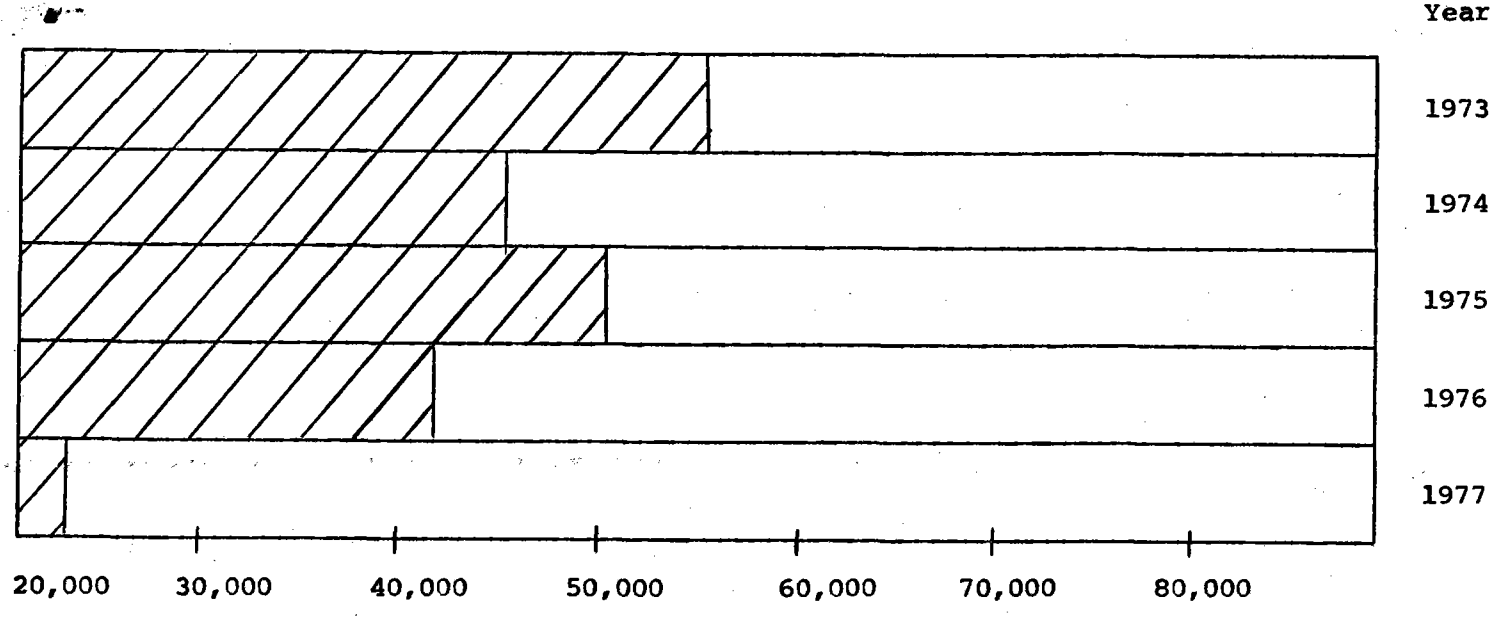
TRANSMOUNTAIN DIVERSION

Division No. 2

TWIN LAKES TUNNEL 1977

Source: Roaring Fork River, Division No. 5

Recipient: Twin Lakes Reservoir and Canal Company



5 YEAR COMPARISON

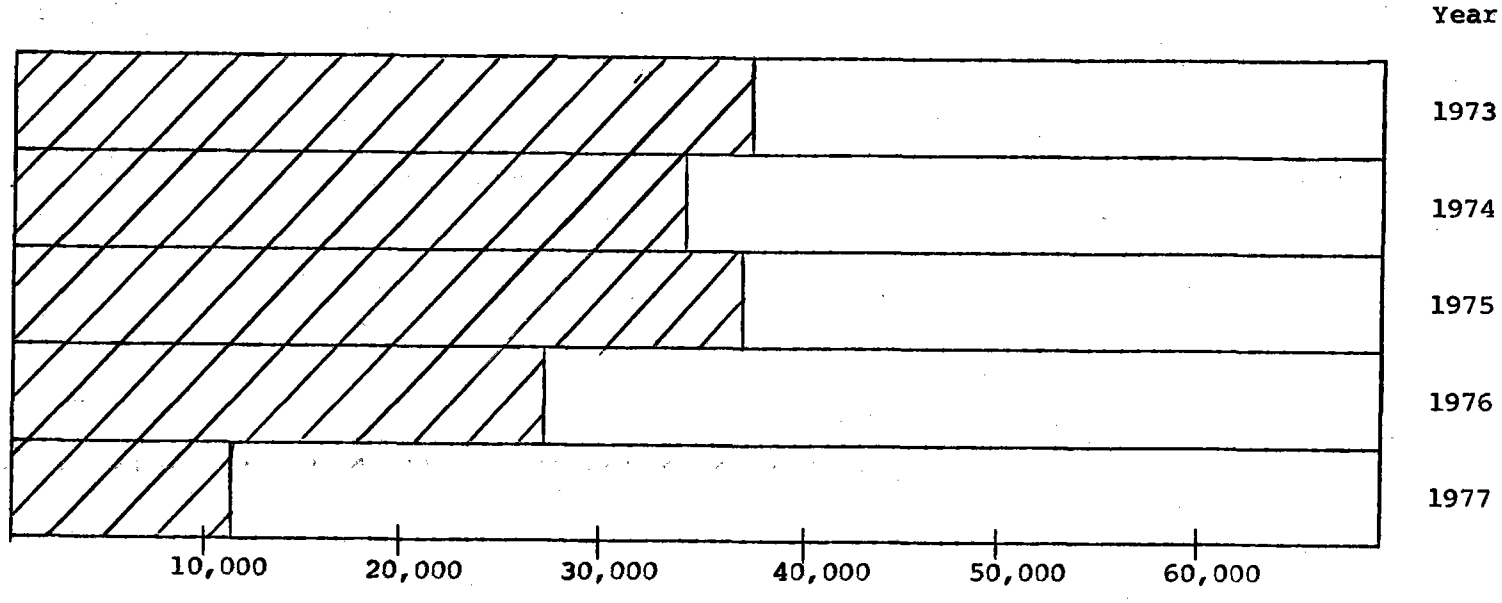
TRANSMOUNTAIN DIVERSION

Division No. 2

BOUSTEAD TUNNEL 1977

Source: Fryingpan River

Recipient: U.S.B.R.



ACRE FEET

5 YEAR COMPARISON

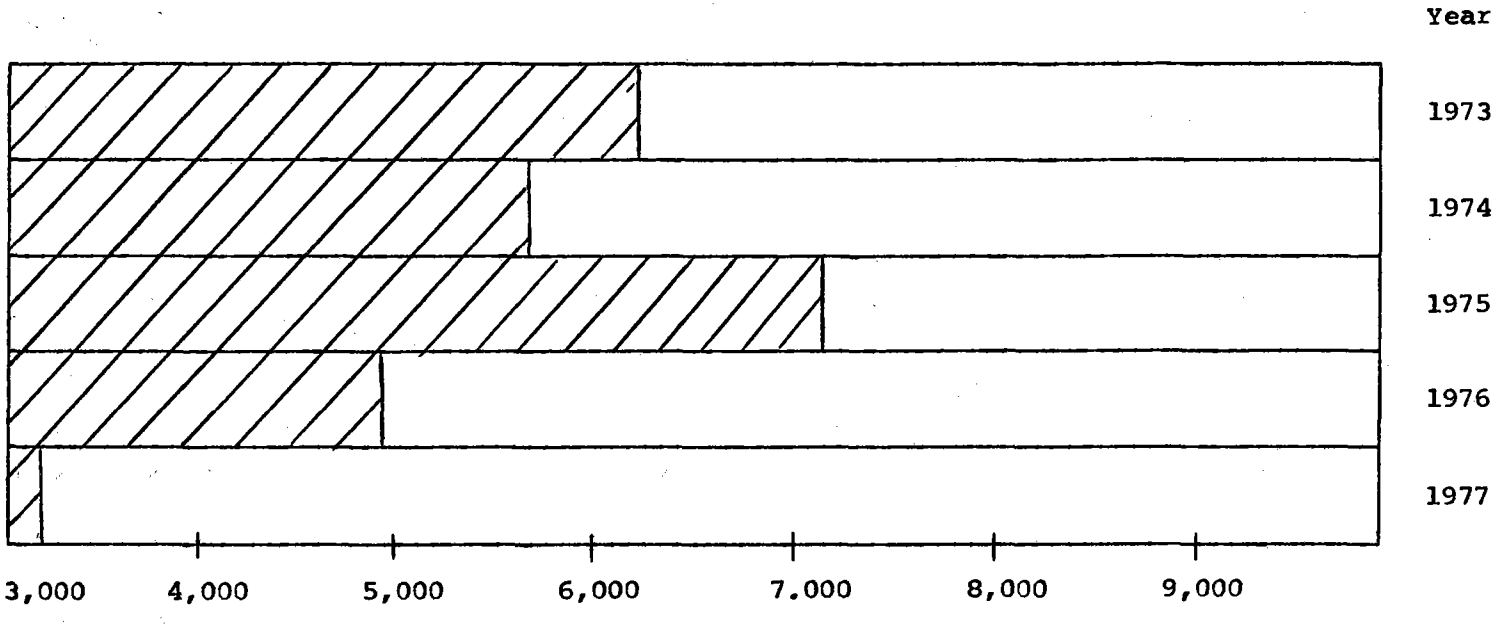
TRANSMOUNTAIN DIVERSION

Division No. 2

BUSK IVANHOE 1977

Source: Ivanhoe Creek, Division No. 5

Recipient: Highline Canal Company and City of Pueblo



5 YEAR COMPARISON

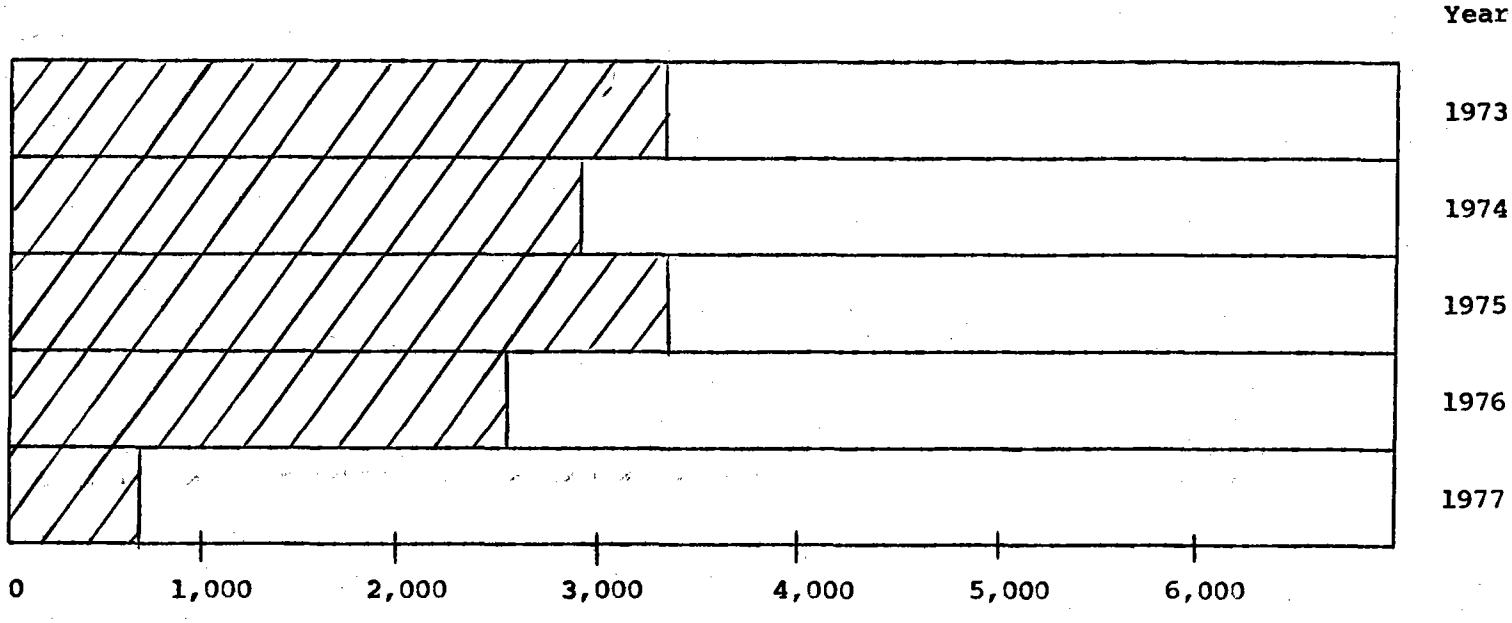
TRANSMOUNTAIN DIVERSION

Division No. 2

WURTZ DITCH 1977

Source: Eagle River, Division No. 5

Recipient: City of Pueblo



ACRE FEET

5 YEAR COMPARISON

PRECIPITATION

Rainfall was 74% of normal on the main stem of the Arkansas and below normal on the Purgatoire. Although there were a couple of months of above normal rainfall, this amount was usually accumulated in one rain storm. In general, this year has been the driest in the last ten years. The crop yields were slightly down, but it wasn't a complete disaster, partly due to winter storage, and good management of the reservoir waters owned by the ditch companies.

DAMS

The dam inspection unit from Denver was busy in Division 2. The total number of inspections number 118. Of this total number inspected, 83 were inspected by the Water Commissioners, and 35 were inspected by the Dam Inspection Personnel from Denver.

FLOODS

There were a few flash floods which came out of the Fountain Creek, Apishipa, Huerfano, and Purgatoire Rivers which occurred during the months of July and August for the Arkansas Drainage area. All of the flash floods were below the Pueblo area, and there were no noteworthy floods above Pueblo. The Purgatoire River in the Trinidad area had a flood in the middle of August. There was enough water in which the Trinidad Reservoir and Dam was able to store.

IRRIGATION DIVISION NO. 2

STATION	WATER CONTENT PERCENT NORMAL AS OF APR 1, 1977	SNOW DEPTH	WATER CONTENT AS OF APR 1, 1977	AVERAGE INCHES
BIGELOW DIVIDE	97%	21	6.3	6.5
COOPER HILL		-	-	11.3
EAST FORK	58%	22	5.7	9.8
FOUR MILE PARK	11%	3	0.6	5.1
FREMONT PASS	64%	37	10.4	16.2
GARFIELD	45%	21	5.8	13.0
HERMIT LAKE		9	3.4	-
MONARCH PASS	44%	26	7.5	17.1
TENNESSEE PASS	42%	21	4.4	10.6
TWIN LAKES TUNNEL	33%	16	3.5	10.7
WESTCLIFFE	71%	15	4.5	6.3
APISHAPA		18	6.5	-
CUCHARAS CREEK		23	6.9	-
LA VETA PASS	91%	23	6.7	7.4
BOURBON	74%	19	5.2	7.0

Streamflow should be in the near normal range. All the tributary streams as well as the mainstream of the Arkansas are being forecast to flow at least 105% of normal. All other conditions on the Arkansas are poor. Carry-over storage is poor and will be of limited value in augmenting supplies.

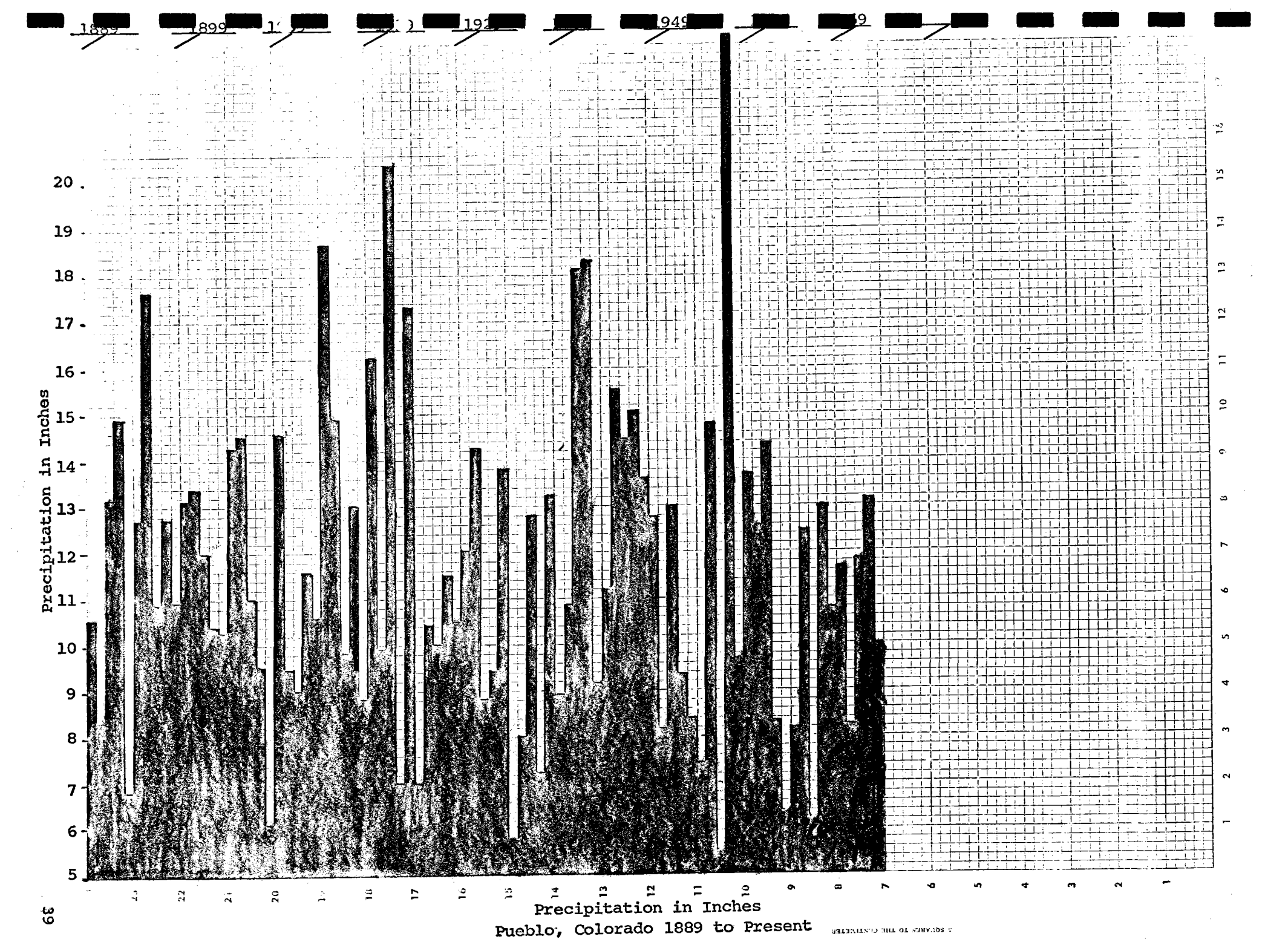
IRRIGATION DIVISION NO. 2

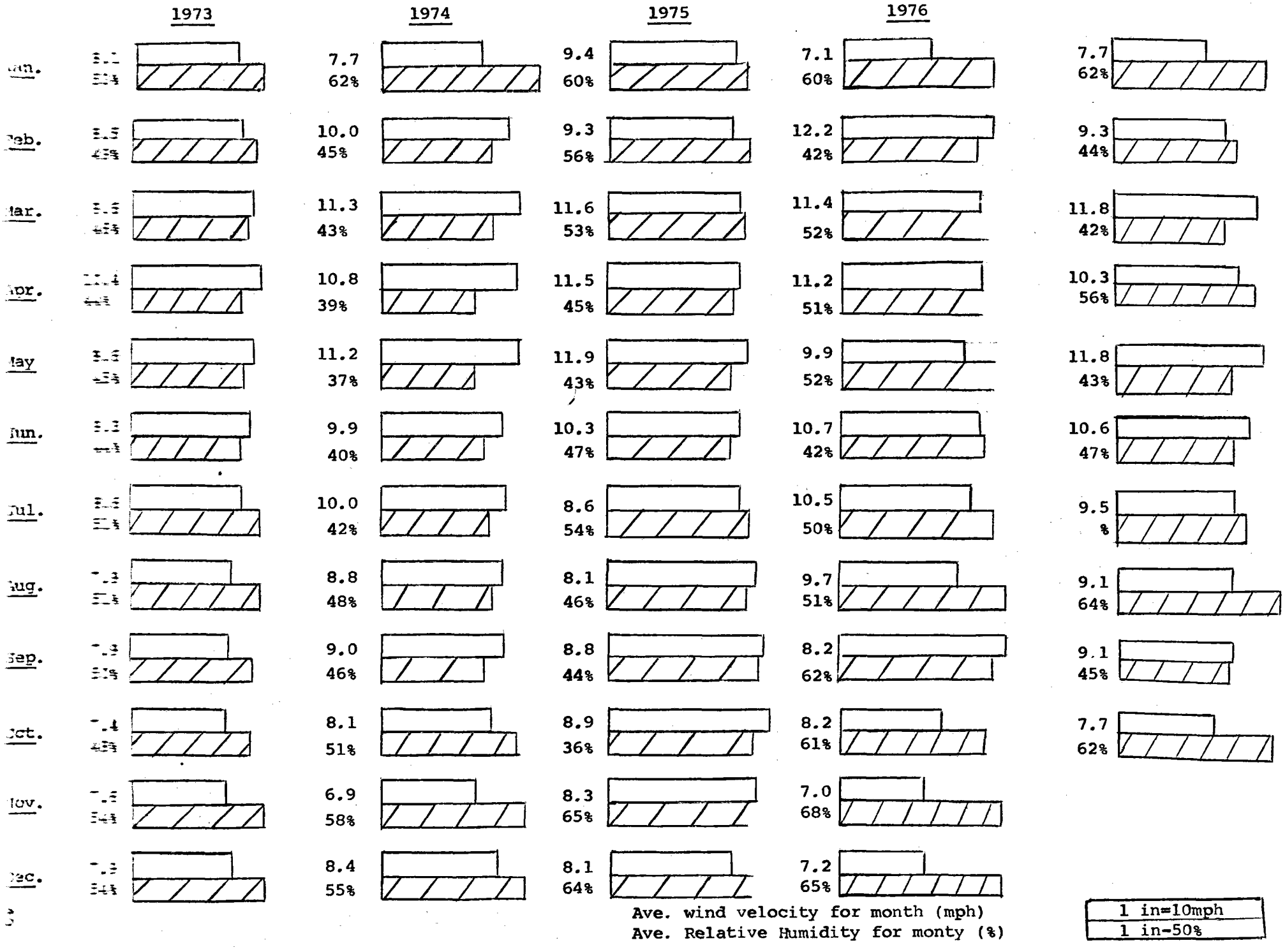
STATION	WATER CONTENT PERCENT NORMAL AS OF MAY 1, 1977	SNOW DEPTH	WATER CONTENT AS OF MAY 1, 1977	AVERAGE INCHES
BIGELOW DIVIDE	72%	8	2.6	3.6
COOPER HILL		0	0.0	12.1
EAST FORK	31%	6	2.3	7.5
FOUR MILE PARK		0	0.0	1.4
FREMONT PASS	70%	36	12.7	18.1
GARFIELD		0	0.0	8.6
HERMIT LAKE		0	0.0	-
MONARCH PASS	31%	11	5.0	16.3
TENNESSEE PASS		0	0.0	8.5
TWIN LAKES TUNNEL	38%	11	3.6	9.4
WESTCLIFFE		0	0.0	1.6
APISHAPA	73%	6	2.4	3.3
CUCHARAS CREEK		13	4.5	-
LA VETA PASS		0	0.0	2.1
BOURBON	8%	1	0.2	2.5

Streamflow should be in the near normal range. All the tributary streams as well as the mainstream of the Arkansas are being forecast to flow at least 105% of normal. All other conditions on the Arkansas are poor. Carry-over storage is poor and will be of limited value in augmenting supplies.

PRECIPITATION
IRRIGATION DIVISION #2

STATION	April 1977	DEPART FROM NORMAL	May 1977	DEPART FROM NORMAL	June 1977	DEPART FROM NORMAL	July 1977	DEPART FROM NORMAL	August 1977	DEPART FROM NORMAL	September 1977	DEPART FROM NORMAL
Lamar	1.73	+ .38	4.06	+1.53	1.37	- .89	1.42	-.91	3.44	+1.10	.05	-1.04
Leadville	1.50		.19		.54		1.32		.85		.57	
Pueblo	2.56		.98		.58		2.14		1.32		.11	
Trinidad	1.79		1.25		1.25		4.31		4.08		.99	
Westcliffe	1.63	- .29	.21	-1.43	.54	- .55	2.22	-.24	3.10	+ .66	.76	- .20
Colorado Spgs.	2.57	+1.12	1.12	-1.00	3.87	+1.56	3.02	-.08	5.11	+2.53	.45	- .66


1889
1899
1949
Precipitation in Inches
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
Precipitation in Inches
Pueblo, Colorado 1889 to Present


1973
1974
1975
1976
Jan.
7.7
62%
9.4
60%
7.1
60%
7.7
62%
Feb.
10.0
45%
9.3
56%
12.2
42%
9.3
44%
Mar.
11.3
43%
11.6
53%
11.4
52%
11.8
42%
Apr.
10.8
39%
11.5
45%
11.2
51%
10.3
56%
May
11.2
37%
11.9
43%
9.9
52%
11.8
43%
Jun.
9.9
40%
10.3
47%
10.7
42%
10.6
47%
Jul.
10.0
42%
8.6
54%
10.5
50%
9.5
%
Aug.
8.8
48%
8.1
46%
9.7
51%
9.1
64%
Sep.
9.0
46%
8.8
44%
8.2
62%
9.1
45%
Oct.
8.1
51%
8.9
36%
8.2
61%
7.7
62%
Nov.
6.9
58%
8.3
65%
7.0
68%
Dec.
8.4
55%
8.1
64%
7.2
65%
Ave. wind velocity for month (mph)
Ave. Relative Humidity for monty (%)
1 in=10mph
1 in-50%

DAMS
IRRIGATION DIVISION #2

WATER DIST.	NAME OF RESERVOIR	STREAM	DAM HEIGHT	INSPECTION
10	Air Force Academy Dam			No
	City of Colo. Spgs. (Prospect, Northfield, #4, North Catamont, So. Catamont, Crystal Cr., Lake Moraine)			Yes
	Fountain Valley	Fountain		Yes
	Keeton Dam	Lit. Fountain	45'-50'	No
	Manitou	French Cr.	over 35'	Yes
	Mesa No. 1 & 2	Camp Cr.		No
	Spring Run #2	Spring Run		Yes
	Townsend Dam & Reservoir	Rock Cr.		No
	Woodmoor Country Club #4			Yes
11	Diamond			Yes
	Fooses Creek Dam			No
	Sugar Loaf	Lake Fork	over 35'	No
	Twin Lakes	Lake Cr.	over 35'	Yes
	Clear Creek	Clear Cr.	over 35'	Yes
12	Brush Hollow	Brush Hollow	over 35'	No
	Canon City Sed. Pond			No
	City of Colo. Spgs. (C.S. # 1,2,4,5,7,Penrose)			No
	Mt. Pisgah	Four Mile	over 35'	Yes
	Park Center #8-10	Four Mile		No
13	DeWeese Dye	Grape Cr.	over 35'	Yes
14	Comanche Reservoir			No
	St. Charles Mesa Dam	St. Charles		No
	Teller Dam	Turkey Cr.		No
	Pueblo Reservoir	Arkansas	190'	No
15	Heyden Beckwith	Greenhorn	over 35'	Yes
	Clennin	Lit. Granerous	over 20'	No
	Royce, Gene	Spring	over 15'	No
	St. Chas. (aka Lake Isabel)			Yes
	St. Charles #2-3	St. Charles		Yes
16	Andreietta	Bear Cr.	over 20'	No
	Bressan #1	Bear Cr.	over 30'	No
	Brunelli	Bear Cr.	over 30'	No
	Clark #2	Hill Arroya	over 30'	Yes
	Craeger Dam	Huerfano R.	over 30'	Yes

WATER DIST.	NAME OF RESERVOIR	STREAM	DAM HEIGHT	INSPECTION
16	Cucharas #5	Cucharas R.		No
	Daigre	Cucharas R.		Yes
	Holita	Cucharas R.		Yes
	Horseshoe			No
	Houchin So.	Spring	over 20'	No
	Houchin No.	Spring	over 20'	No
	Huerfano Valley	Huerfano R.		No
	Maria Stevens	Cucharas R.		Yes
	Martin Lakes			Yes
	Orlando	Huerfano		No
	Sharps Orchard	Ditch	over 20'	No
	Valdez			No
	Vertrees	Simpson Arroya	over 10'	Yes
	Walsenburg Water Syst.	Cucharas R.	over 20'	Yes
	Wahatoya	Cucharas		Yes
17	Henry	Arkansas	over 10'	Yes
	Holbrook	Arkansas		No
	Karval	Adobe		Yes
	Meredith	Arkansas	over 35'	Yes
	Horse Creek	Arkansas	over 35'	No
	Adobe	Arkansas	over 20'	No
	Dye	Arkansas	over 20'	No
18	Seven Lakes	Las Animas	over 20'	No
19	Model	Las Animas	over 20'	Yes
	North	North Fork	over 20'	Yes
	Trinidad Dam			No
67	Antelope	Big Sandy	over 35'	Yes
	Dingwell Ditch Reg.	E. Prowers Arroya	over 20'	Yes
	Fort Lyon	Ditch	over 10'	Yes
	Nee Noshe		over 20'	No
	Queens (aka Nee Skah)	Kiowa Cr.	over 20'	No
	Ramah	Big Sandy	over 40'	Yes
	S-16	Big Sandy	over 20'	Yes
	Thurston Dam		over 8'	Yes
	Two Buttes	Two Buttes Cr.	over 100'	Yes
	Verhoeff	E. Prowers Arroya	over 10'	Yes
	Wootten Dam			No

All reservoirs were looked at by the Division Office

The above information refers to inspections made by the Denver Office only.

NAME OF RESERVOIR	SOURCE	AMOUNT OF ACRE FEET NOVEMBER 1, 1976	AMOUNT OF ACRE FEET APRIL 1, 1977	AMOUNT OF ACRE FEET OCTOBER 31, 1977
Ambler Res. No. 2	Unnamed Springs	-	-	-
Callhan Reservoir	Fountain	300	300	300
Crystal Creek Res.	Crystal Creek	364	398	704
Fountain Valley #2	Fountain	948	5,146	0
Fountain Valley #3	Fountain	0	0	0
Manitou Reservoir	No. Branch French Dreek	853	853	853
Monument State	Monument Creek	est. 324	est. 324	est. 324
North Catamount	No. Fork Catamount	10,866	8,625	5,745
North Field No. 1		210	246	223
South Catamount	So. Catamount	1,058	0	1,408
Spring Run	Spring Run	184	245	219
South Suburban Res.	So. Fork Cheyenne	194	211	226
Clear Creek Res.	Clear Creek	5,038	5,566	4,536
O'Haver	Gray's Creek	-	-	-
Sugar Loaf Res.	Lake Fork Creek	55,880	38,140	61,160
Twin Lakes Res.	Lake Creek	4,459	7,160	24,442
Brush Hollow	Beaver Creek	1,771	3,764	1,067
Colo. Springs #2	Beaver Creek	541	541	541
Colo. Springs #4	Beaver Creek	1,632	1,805	1,582
Colo. Springs #5	Beaver Creek	1,811	1,900	1,340
Colo. Springs #7	Beaver Creek	67	191	0
Colo. Springs #8	Beaver Creek	363	669	0
Lake Moraine	Beaver Creek	667	667	662
Mt. Pisgah	Four Mile Creek	687	1,073	738
Rosemont Penrose	Beaver Creek	2,435	2,502	2,413
Skaguay	Beaver Creek	1,593	1,593	1,593
DeWeese Dye	Grape Creek	4,322	4,322	1,523
Curiton	Springs	-	-	-
Greenview	Fountain	0	0	0
H.O.P. Reservoir	Springs	-	-	-
Pueblo Reservoir	Arkansas	46,508.42	91,458.55	33,970.15

NAME OF RESERVOIR	SOURCE	AMOUNT OF ACRE FEET NOVEMBER 1, 1976	AMOUNT OF ACRE FEET APRIL 1, 1977	AMOUNT OF ACRE FEET OCTOBER 31, 1977
Hayden Beckwith	Greenhorn	6,075	6,080	6,070
Lake Minnequa	St. Charles	1,106	1,148	719
Reservoir No. 2	St. Charles	2,358	2,345	2,408
Reservoir No. 3	St. Charles	8,048	7,281	7,460
Arnold Flood Water	Santa Clara	0	0	0
Bressan #1	Unnamed Arroya	-	-	-
Bressan #2	Unnamed Arroya	-	-	-
Brunelli #1&2	Bear Creek	-	-	-
Butte	Cucharas	0	0	0
Chicosa #4&5	Huerfano	-	-	-
Coler (Martin Lake)	Cucharas	0	0	2,039
Cucharas Valley	Cucharas	0	0	0
Dotson	Chicosa Creek	-	-	-
Holita	Cucharas	0	0	0
Huerfano Valley	Huerfano	-	-	-
La Joya	Cucharas	0	0	0
Maria Stevens	Cucharas	0	0	0
Martin Reservoir	Cucharas	1,906	2,274	2,039
Mosco	Poison Canon	-	-	-
Orlando	Huerfano	-	-	-
Sharps Orchid	Cucharas	0	0	0
Sierra Blanca	Decker Creek	-	-	-
Sunnyside	Santa Clara	-	-	-
Valdez	Santa Clara	-	-	-
Vories	Cucharas	-	-	-
Wilson	Sheer Creek	-	-	-
Zan	Apache Creek	-	-	-
Adobe	Arkansas	0	0	0
Dye	Arkansas	0	0	0
Henry	Arkansas	666	1,769	0
Holbrook #1	Arkansas	0	5,198	0
Horse Creek	Arkansas	0	7,542	0

NAME OF RESERVOIR	SOURCE	AMOUNT OF ACRE FEET NOVEMBER 1, 1976	AMOUNT OF ACRE FEET APRIL 1, 1977	AMOUNT OF ACRE FEET OCTOBER 31, 1977
Hermosa	San Francisco Creek	0	0	-
Monument	Middle Fork Purgatoire	1,106	1,350	1,375
Model	Purgatoire	0	0	1,000
North	Trinchera	3,176	3,232	3,789
Russel	Chanley Arroya	40	40	-
John Martin	Arkansas	809	20,687	0
Nee NoShee	Arkansas	0	0	0
Nee Skah	Arkansas	0	0	0
Thurston	Arkansas	0	1,044	626
Two Buttes	Two Buttes Creek	5,782	5,606	4,835

10

LIVESTOCK WATER TANKS

Applications Filed and Approved:

Water District 10	4
Water District 11	1
Water District 12	11
Water District 13	1
Water District 14	3
Water District 15	0
Water District 16	2
Water District 17	0
Water District 18	9
Water District 19	48
Water District 66	0
Water District 67	4
TOTAL	83

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

Last year (1976) the division had 93 applications.

WATER RIGHTS TABULATION

Tabulation in Division 2 is generally in good shape, although there are still questions remaining in the area of water rights that were decreed in other than original adjudications and have been administered as though they were decreed in the original instead of a supplemental adjudication. The tabulations have been updated for all water cases that were pending and we are now trying to keep up with new judgement and decrees as they come in to the office. The next step is to correct the pre-tabulation which will come out in February. After all corrections are made, we will be ready to distribute the tabulation in July.

Abandonments that were compiled in the past were less than satisfactory, and we are now preparing a new list. This appears to be a larger job than we first believed. Every site should be visited and a search for each water right before we put it on the abandonment list should be made. This will take a lot of man hours and may require the services of another man.

Cases Filed in the Water Court

The following shows the number of cases filed from November 1969 through June 1977, 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	W-1 through W-18	18	22
December	W-19 through W-22	4	4
	Sub-total..	22	26

1970

January	None	0	0
February	W-23	1	4
March	W-24 through W-28	5	25
April	W-29 through W-31	3	7
May	W-32 through W-41	10	14
June	W-42 through W-60	19	105
July	W-61 through W-66	6	22
August	W-67 through W-74	8	15
September	W-75 through W-76	2	5
October	W-77 through W-78	2	2
November	W-79 through W-87	9	11
December	W-88 through W-114	27	62
	Sub-total..	92	272

1971

January	W-115 through W-123	9	40
February	W-124 through W-146	23	51
March	W-147 through W-195	49	90
April	W-196 through W-241	46	80
May	W-242 through W-266	25	36
June	W-267 through W-317	51	117
July	W-318 through W-348	31	77
August	W-349 through W-375	27	76
September	W-376 through W-395	20	38
October	W-396 through W-421	26	66
November	W-422 through W-460	39	90
December	W-461 through W-507	47	83
	Sub-total..	393	844

MONTH	CASE NUMBERS	CASES	CLAIMS
	1972		
January	W-508 through W-543	36	110
February	W-544 through W-609	66	167
March	W-610 through W-701	92	252
April	W-702 through W-811	110	307
May	W-812 through W-1144	333	680
June	W-1145 through W-3440	2298	5385
July	W-3441 through W-3679	239	467
August	W-3680 through W-3780	101	202
September	W-3781 through W-3815	35	86
October	W-3816 through W-3852	37	97
November	W-3853 through W-3875	25	49
December	W-3876 through W-3893	23	53
	Sub-total..	3395	7855
	1973		
January	W-3894 through W-3911	19	47
February	W-3912 through W-3922	11	35
March	W-3923 through W-3940	26	87
April	W-3941 through W-3954	18	72
May	W-3955 through W-3968	19	670
June	W-3969 through W-3983	20	119
July	W-3984 through W-3999	19	70
August	W-4000 through W-4015	21	64
September	W-4016 through W-4029	14	28
October	W-4030 through W-4039	12	460
November	W-4040 through W-4052	16	42
December	W-4053 through W-4062	12	234
	Sub-total..	207	1928
	1974		
January	W-4063 through W-4069	8	68
February	W-4070 through W-4086	20	633
March	W-4087 through W-4096	10	66
April	W-4097 through W-4107	11	95
May	W-4108 through W-4113	6	7
June	W-4114 through W-4126	13	821
July	W-4127 through W-4144	18	36
August	W-4145 through W-4156	14	15
September	W-4157 through W-4169	13	16
October	W-4170 through W-4185	17	44
November	W-4186 through W-4198	14	61
December	W-4199 through W-4214	16	60
	Sub-total	160	1922

MONTH	CASE NUMBERS	CASES	CLAIMS
	1975		
January	W-4215 through W-4222	8	25
February	W-4223 through W-4238	17	34
March	W-4239 through W-4245	9	9
April	W-4246 through W-4252	9	20
May	W-4253 through W-4263	11	31
June	W-4264 through W-4275	13	15
July	W-4276 through W-4280	6	10
August	W-4281 through W-4285	7	71
September	W-4286 through W-4324	40	70
October	W-4325 through W-4330	7	17
November	W-4331 through W-4359	29	33
December	W-4360 through W-4374	15	21
	Sub-total..	171	356
	1976		
January	W-4375 through W-4386	13	29
February	W-4387 through W-4396	15	46
March	W-4397 through W-4412	22	125
April	W-4413 through W-4427	21	36
May	W-4428 through W-4482	68	323
June	W-4483 through W-4490	15	127
July	W-4491 through W-4500	11	15
August	W-4501 through W-4510	12	21
September	W-4511 through W-4519	27	38
October	W-4520 through W-4529	15	159
November	W-4530 through W-4534	13	17
December	W-4535 through W-4545	17	50
	Sub-Total..	249	986
	1977		
January	W-4546 through W-4552	13	33
February	W-4553 through W-4559	15	20
March	W-4560 through W-4565	28	55
April	W-4566 through W-4575	17	383
May	W-4576 through W-4579	9	12
June	W-4580 through W-4588	14	22
	Sub-Total..	96	525

Total cases filed from 1969 through June 30, 1977 4785

Approximate number of claims for same period 14714

Cases Terminated by the Water Court

MONTH	NUMBER OF CASES TERMINATED
1970	
May	2
June	1
July	4
August	17
September	5
October	5
November	1
December	15
TOTAL....	50
1971	
January	0
February	4
March	16
April	9
May	15
June	13
July	47
August	46
September	26
October	43
November	25
December	30
TOTAL....	274
1972	
January	2
February	31
March	25
April	39
May	38
June	1
July	5
August	76
September	47
October	40
November	167
December	110
TOTAL....	581

MONTH	NUMBER OF CASES TERMINATED
1973	
January	95
February	110
March	151
April	81
May	104
June	174
July	83
August	139
September	121
October	216
November	178
December	78
TOTAL....	1,530
1974	
January	137
February	77
March	157
April	99
May	112
June	152
July	59
August	100
September	64
October	68
November	75
December	99
TOTAL....	1,199
1975	
January	84
February	54
March	58
April	65
May	92
June	54
July	41
August	39
September	23
October	28
November	13
December	18
TOTAL....	569

MONTH	NUMBER OF CASES TERMINATED
1976	
January	9
February	10
March	37
April	40
May	9
June	21
July	12
August	10
September	6
October	31
November	30
December	40
TOTAL....	255
1977	
January	27
February	19
March	29
April	30
May	11
June	25
TOTAL....	141

Cases Terminated 1970	50
Cases Terminated 1971	274
Cases Terminated 1972	581
Cases Terminated 1973	1,530
Cases Terminated 1974	1,199
Cases Terminated 1975	569
Cases Terminated 1976	255
Cases Terminated 1977	141
Total cases terminated through June 30, 1977	4,599

WINTER WATER STORAGE

The second year of winter water, which began November 15, 1976, was still an experimental concept which was not set out in a binding contract, but afforded the representatives of ditch companies to meet and evaluate the water stored in Pueblo Reservoir and off-channel facilities, and to make adjustments as might be prudent. The program would allow entities that stored water in Pueblo Reservoir to request their water to be delivered at a specific time, on a specific day, in an exact amount, and then be shut off until more water is needed.

The second year winter water program had only a few changes in the guideline adopted by the ditches a year ago prior to the inauguration of the first year program. But these changes came hard, as representatives of ditch companies met for eight months to make sure that their company would not be injured by the program.

The final program, with the four changes, generally followed the storage program of last year. Immediately below is last year's program.

1. That program specified that for a period of three months one-half of direct flow rights would be stored in Pueblo Reservoir, subject to call by the owning ditch. Electing not to store any winter water was the Rocky Ford Ditch, the senior ditch in the valley.
2. To compensate junior rights, which historically depended on winter flows, it was agreed that storage reservoirs would be guaranteed a single filling. The Otero Ditch, a junior without storage, would be guaranteed 600 acre feet of storage in the Pueblo Reservoir.
3. The Bureau of Reclamation agreed to forego payments toward the cost of constructing Pueblo Dam during the trial period. So all ditches storing water were given a free ride.

The changes that were made from the initial program are as follows:

1. The storage period was lengthened. The first year was for 90 days; the new program is for 107 days (Nov. 15 through March 1).
2. Increased depletion will be charged for transit loss. During the first year a flat percentage figure was charged to cover distance, evaporation, and loss in transit. The next year a sliding scale based on a USGS study will be used. The ditches more distant from Pueblo Reservoir will pay more than ditches closer to the reservoir.
3. Otero Ditch will get more water but not to exceed 2,000 acre feet. In a last minute compromise it was agreed that all ditches but two would let all storage water for the first two days be credited to Otero Ditch's account. The

Fort Lyon will participate pro rata in the accumulation of the first 600 acre feet, but not in the additional. The Rocky Ford, not storing any of its right, will not contribute at all.

4. The door was left open for the Amity to take delivery of Great Plains storage water in John Martin Reservoir rather than piggy-backed via the Fort Lyon to the Great Plains, which is in itself an exciting new use of John Martin. John Martin Reservoir was conceived originally as flood control only.

WINTER WATER STORAGE SUMMARY SHEET
(Pueblo Reservoir)

CANAL	ACTUAL STORAGE
Bessemer	5650.85 A.F.
West Pueblo	256.27 A.F.
Riverside Dairy	80.95 A.F.
Colorado	9414.69 A.F.
Highline	6963.37 A.F.
Oxford	1119.66 A.F.
Otero	1972.25 A.F.
Catlin	8004.80 A.F.
Consolidated	2305.07 A.F.

By an unanimous consent of the participating ditch companies, the program was extended to March 5, 1977. In the above summary, the figures that are shown have evaporation, reservoir runs, and Otero Water deducted to each account and represent what each account had in Pueblo Reservoir as of March 5, 1977 at 2400 hours.

Reservoir Runs:

Bessemer ran 33.75 A.F. in January.
Colorado Canal ran 2481.37 A.F. in December.

WINTER WATER SUMMARY SHEET
(Off Channel Storage)

Holbrook	10040.00 A.F.
Ft. Lyon	48968.67 A.F.
Amity (in John Martin)	12255.00 A.F.

In this summary, the figures are from November 15, 1976 through March 5, 1977. The Amity Canal had their Winter Water delivered to John Martin; the storage began December 31, 1976 and ended February 18, 1977.

The first release of winter water from Pueblo Reservoir was on December 19, 1976 to the Colorado Canal. The release continued to various irrigation companies through September with the majority of the water being run during April, May, and June. All of the winter water had been run out of Pueblo Reservoir by September 28, 1977.

The following graphs show the amount and the time that the winter water was released from Pueblo Reservoir.

WINTER WATER TIME RELEASE
from
PUEBLO RESERVOIR FOR 1977

BESSEMER DITCH

CATLIN CANAL

COLORADO CANAL

CONSOLIDATED DITCH

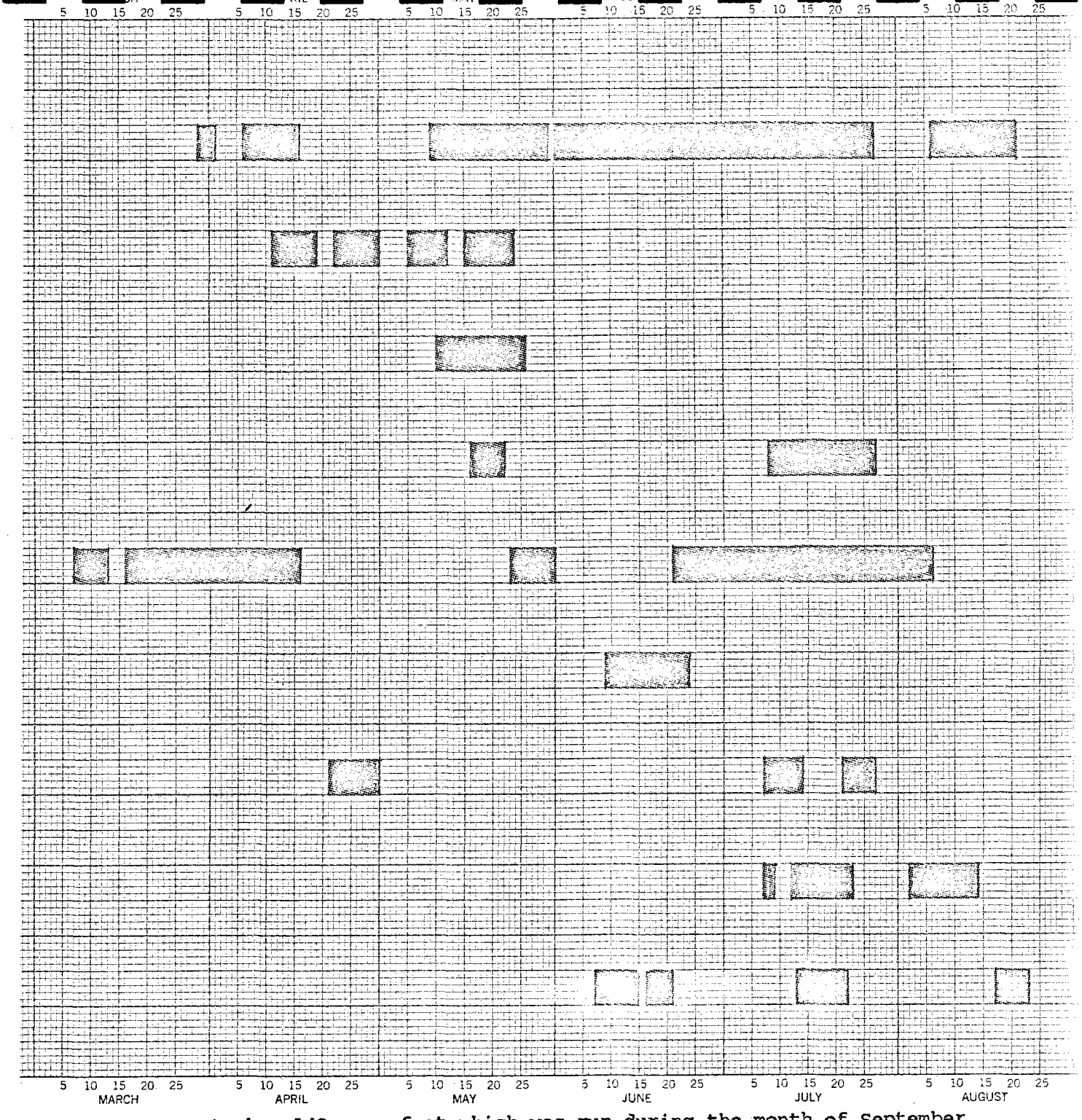
HIGHLINE CANAL

OTERO DITCH

OXFORD CANAL

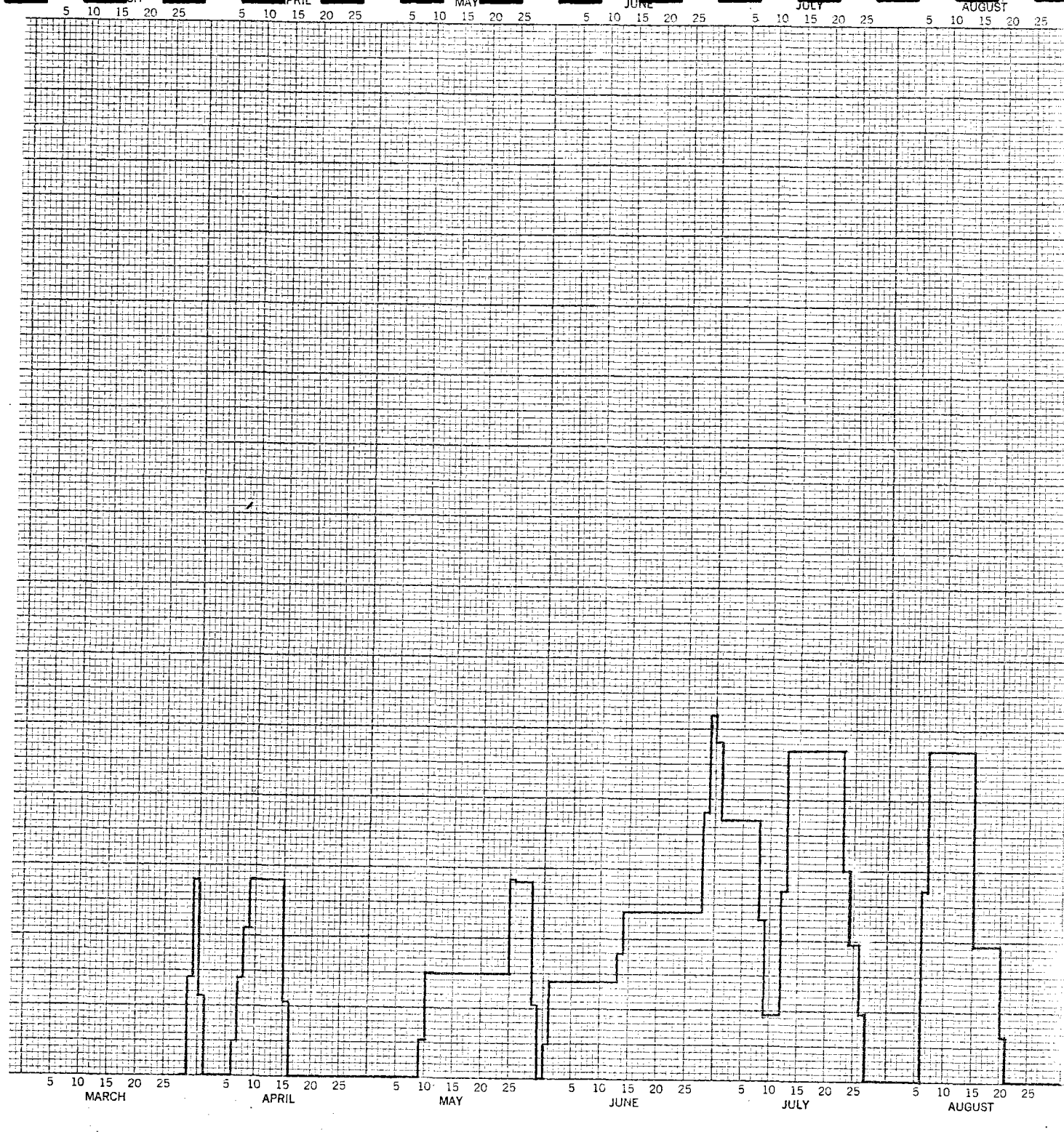
RIVERSIDE DAIRY DITCH

WEST PUEBLO DITCH



This does not show 149 acre feet which was run during the month of September.

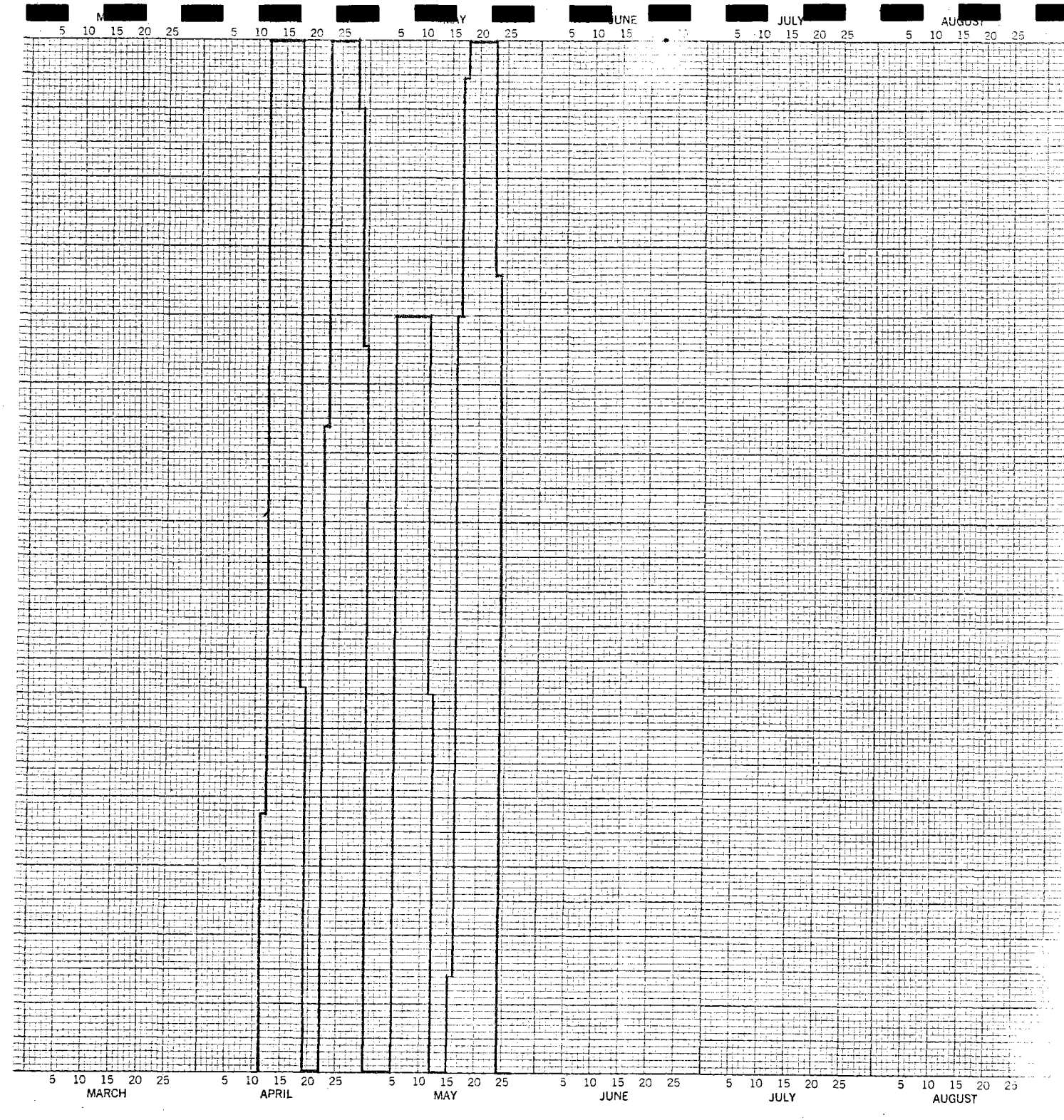
BESSEMER DITCH



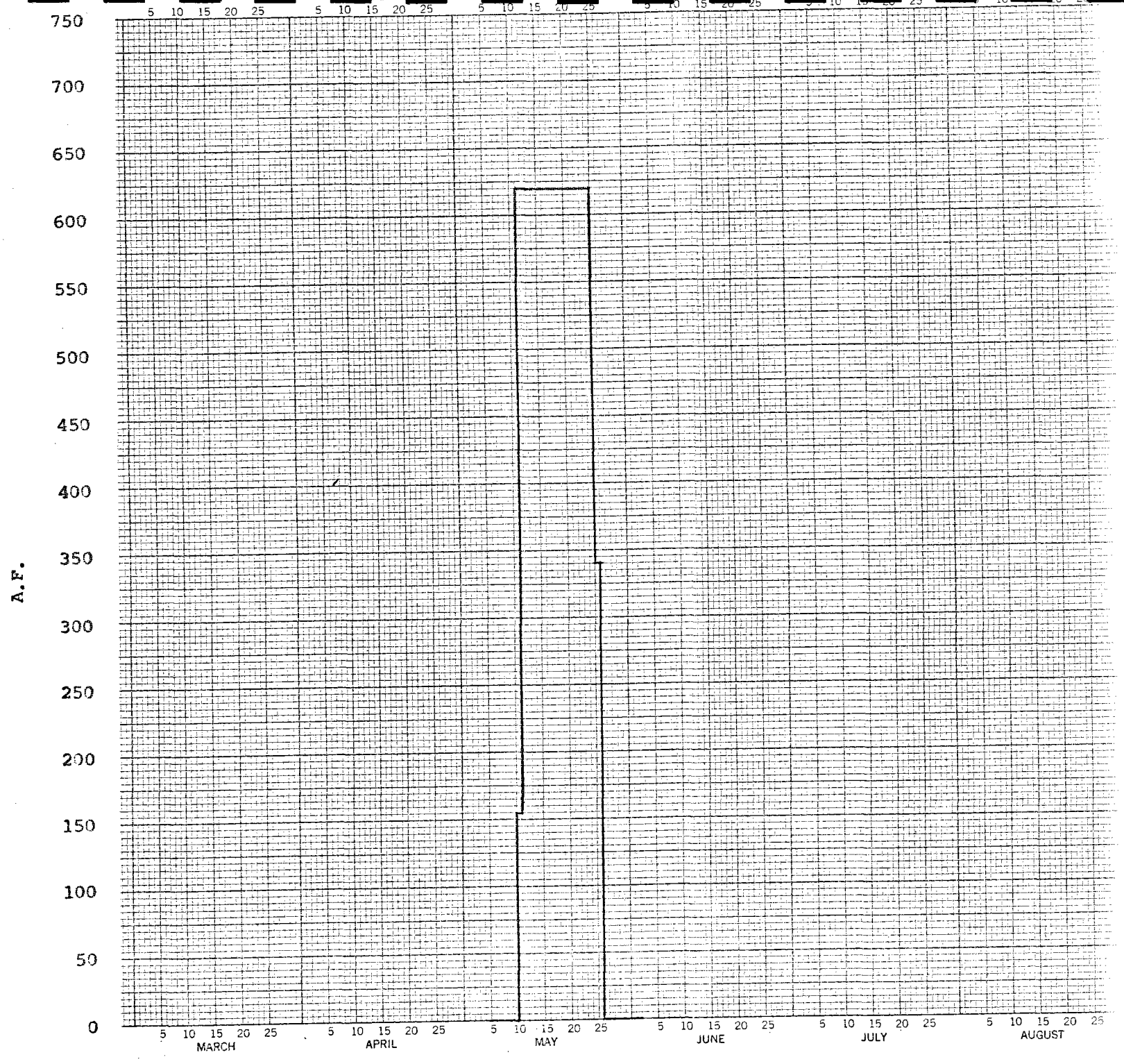
WINTER WATER
TIME & QUANTITY
RELEASES FROM
PUEBLO RESERVOIR
1977

CATLIN CANAL

WINTER WATER
TIME & QUANTITY
RELEASES FROM
PUEBLO RESERVOIR
1977



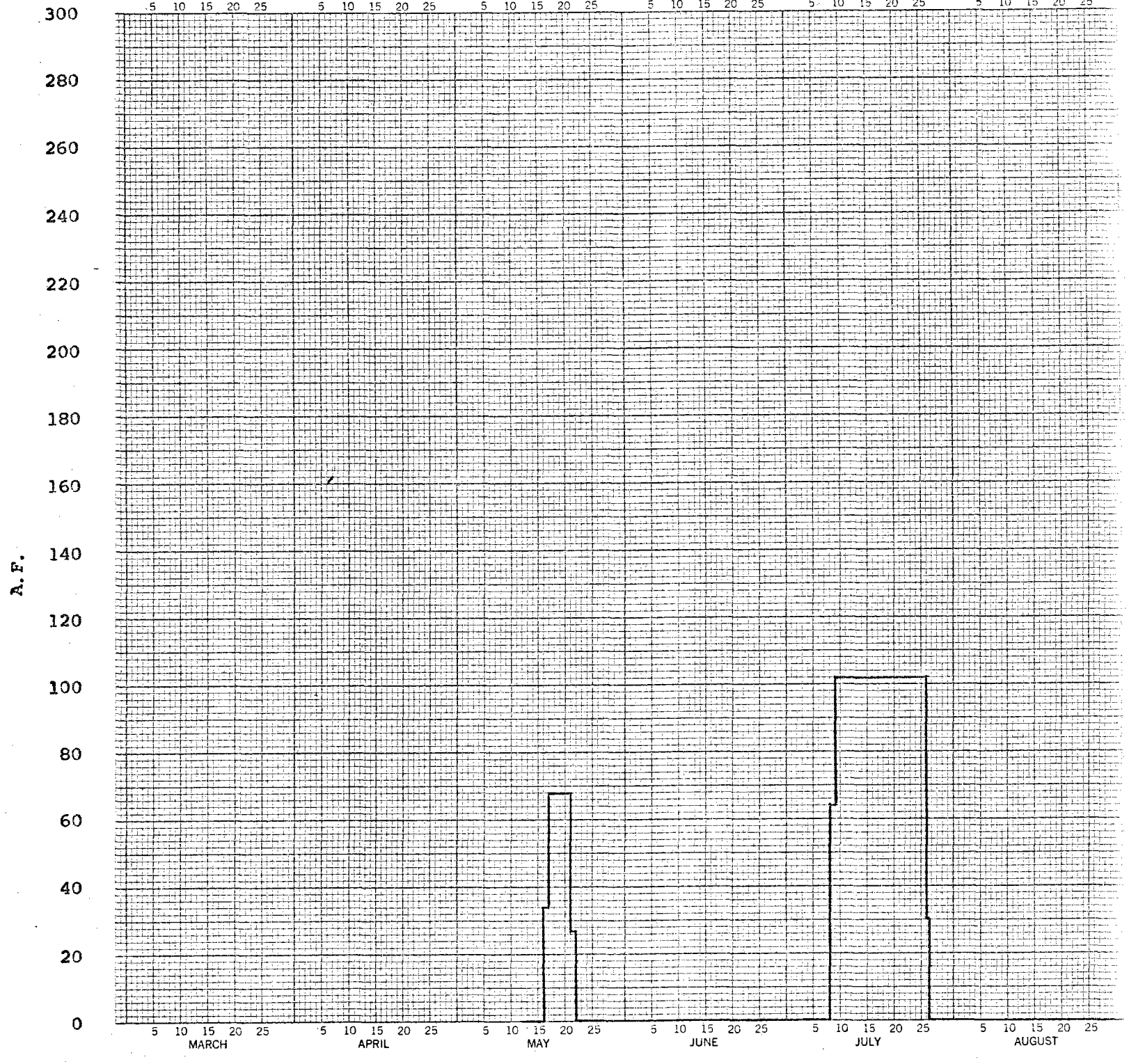
COLORADO CANAL



WINTER WATER
TIME & QUANTITY
RELEASES FROM
PUEBLO RESERVOIR
1977

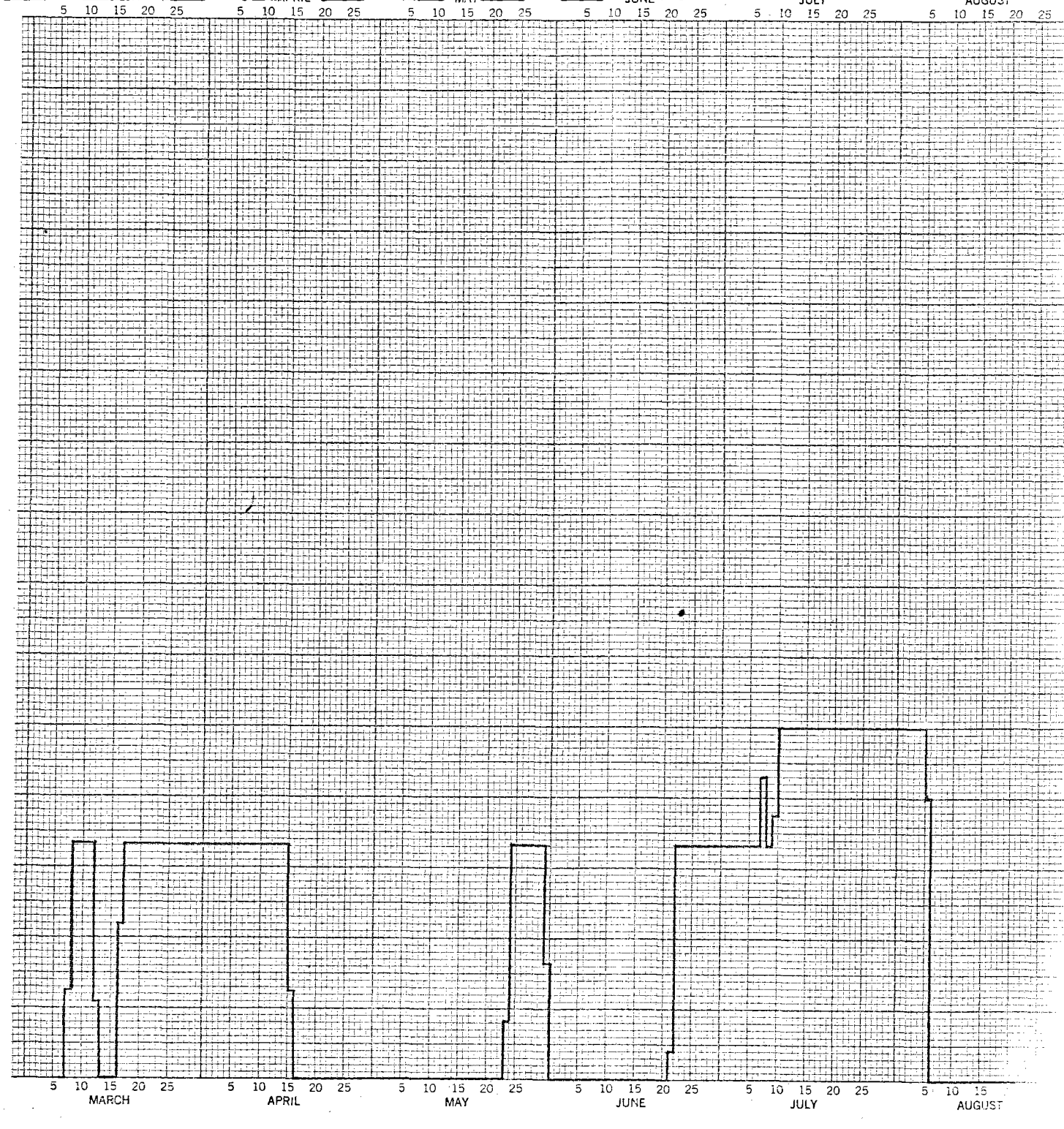
CONSOLIDATED DITCH

WINTER WATER
TIME & QUANTITY
RELEASES FROM
PUEBLO RESERVOIR
1977



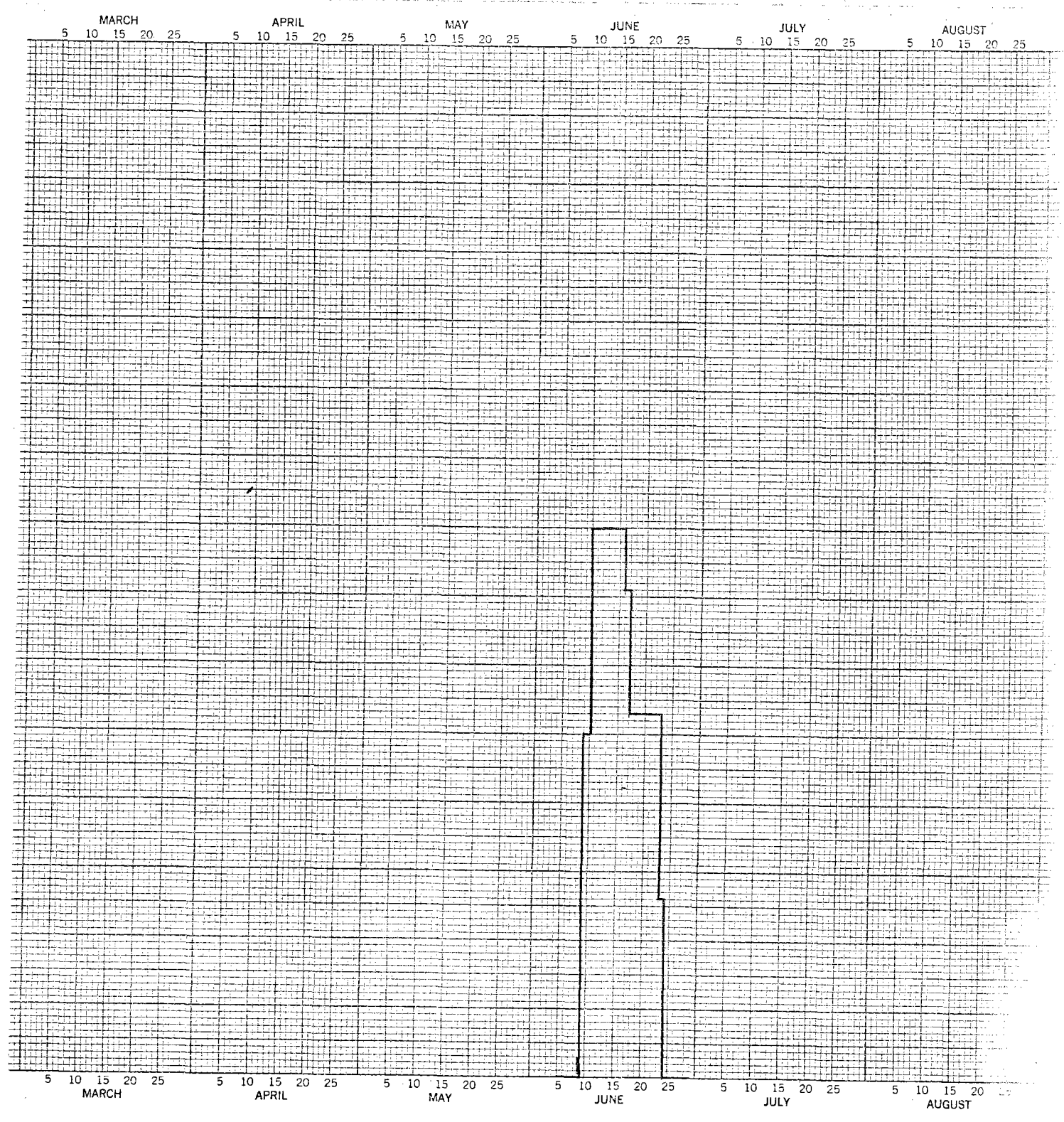
HIGHLINE CANAL

WINTER WATER
TIME & QUANTITY
RELEASES FROM
PUEBLO RESERVOIR
1977



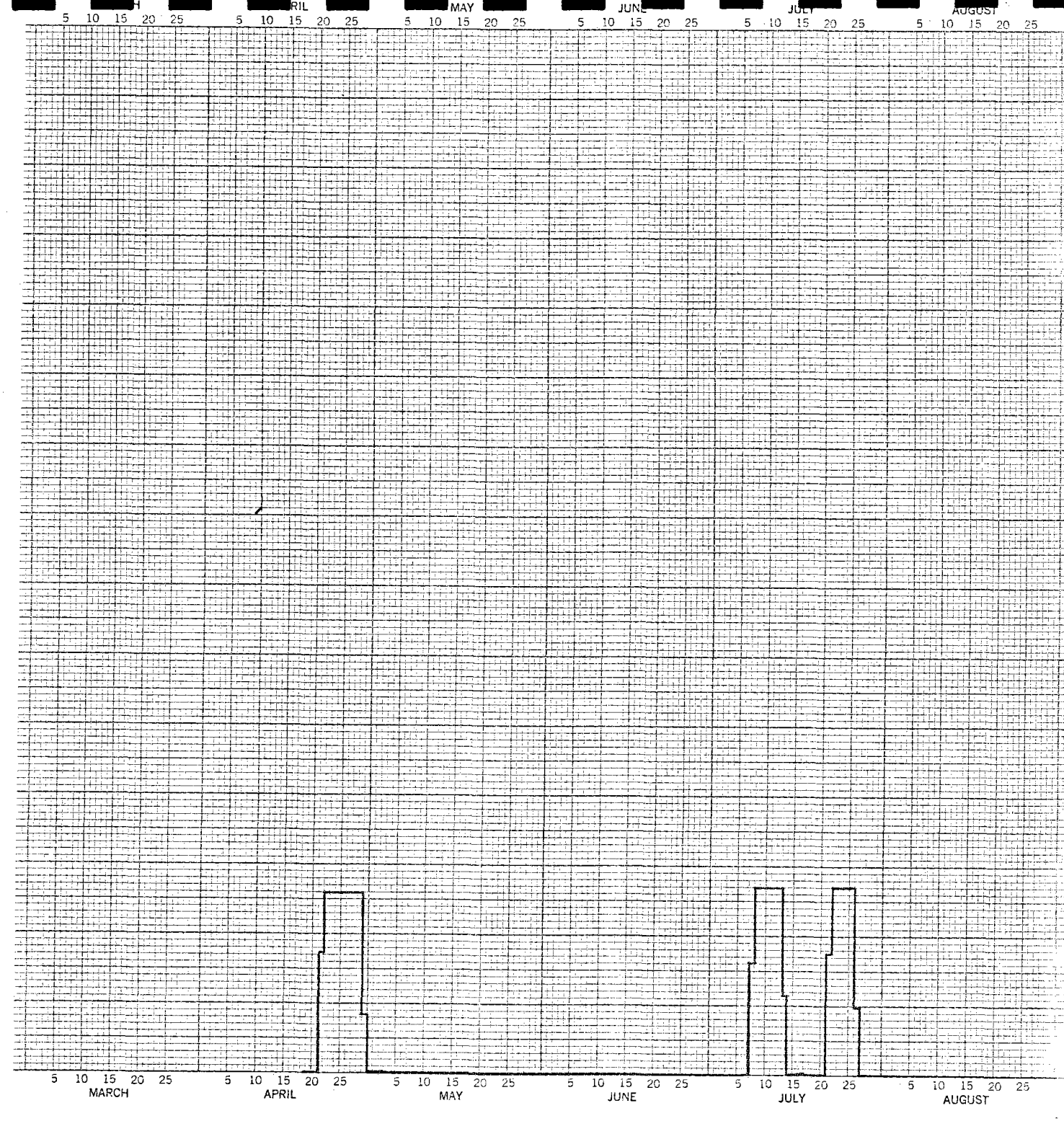
OTERO DITCH

WINTER WATER
TIME & QUANTITY
RELEASES FROM
PUEBLO RESERVOIR
1977



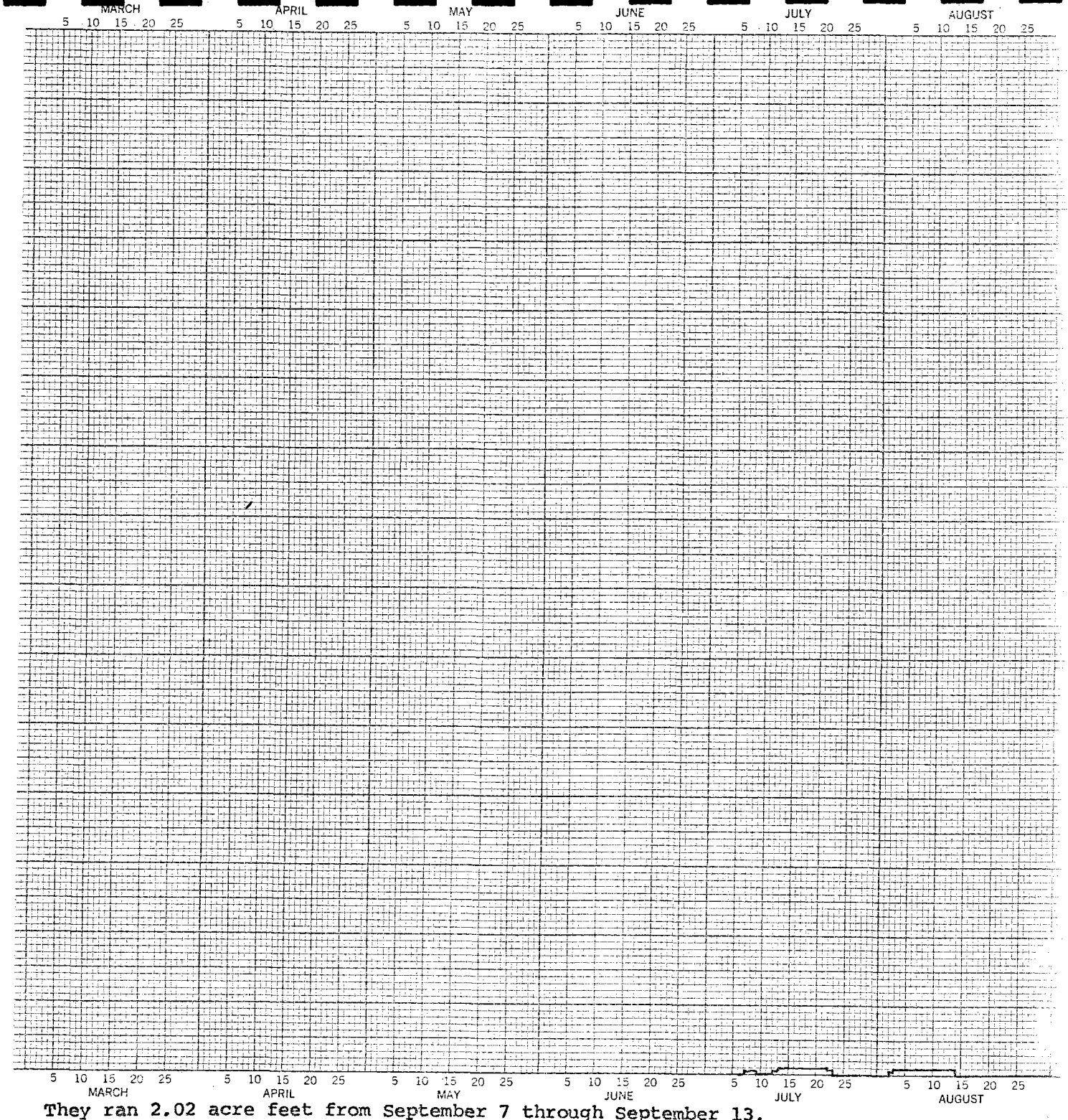
OXFORD CANAL

WINTER WATER
TIME & QUANTITY
RELEASES FROM
PUEBLO RESERVOIR
1977



RIVERSIDE DAIRY DITCH

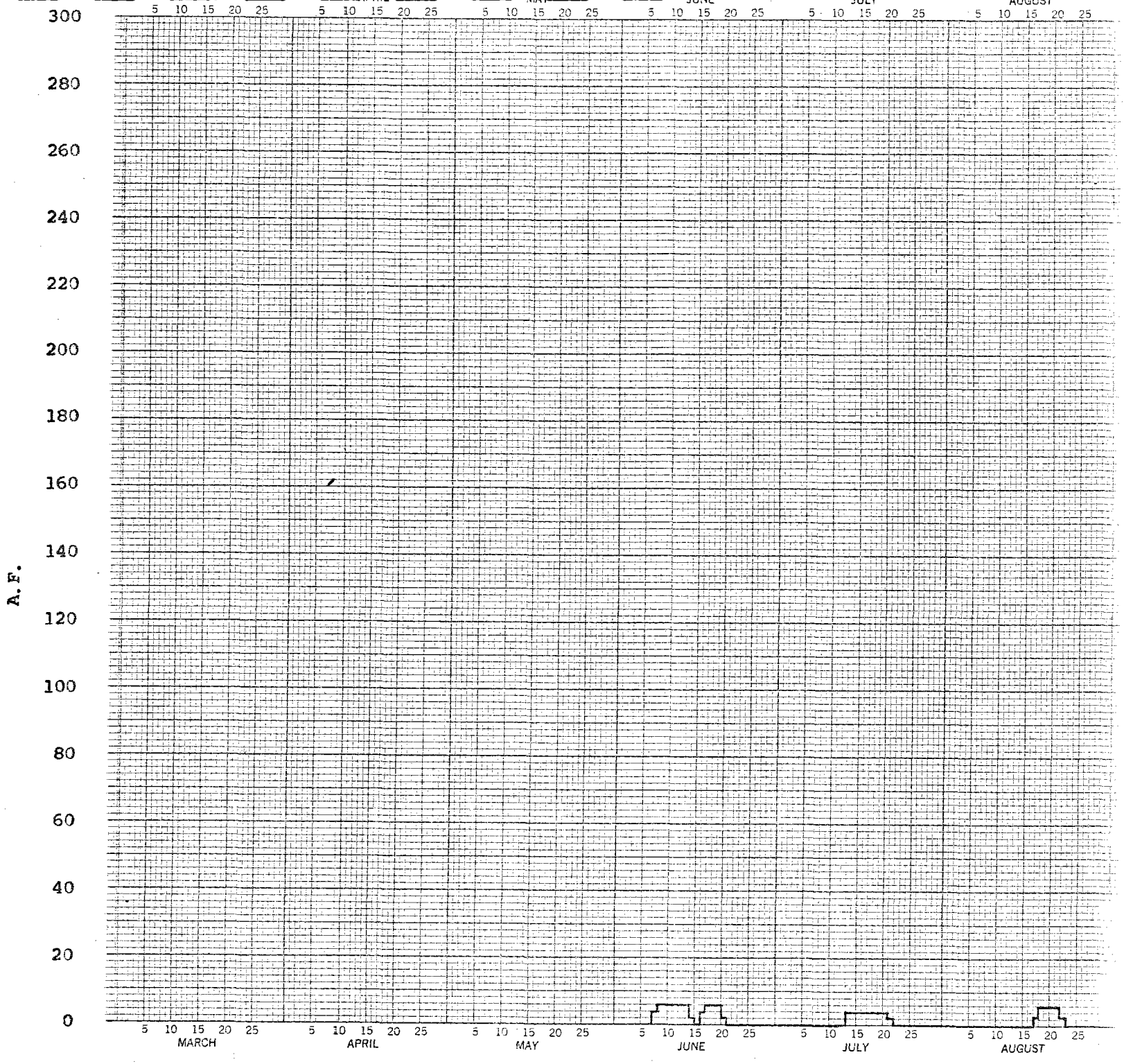
WINTER WATER
TIME & QUANTITY
RELEASES FROM
PUEBLO RESERVOIR
1977



They ran 2.02 acre feet from September 7 through September 13.
They also ran 2.02 acre feet from September 21 through

WEST PUEBLO DITCH

WINTER WATER
TIME & QUANTITY
RELEASES FROM
PUEBLO RESERVOIR
1977



They ran 6.00 acre feet from September 14 through September 28.

GROUND WATER ADMINISTRATION

In December 1976, Judge Gobin ruled on the amendment to the 1973 Pumping Rules and Regulations, rejecting the proposed amendment.

The decree reads:

> WHEREFORE, IT IS ORDERED, ADJUDGED AND DECREED that the proposed Amendment to Rule 3 of the Rules and Regulations Governing the Use, Control and Protection of Surface and Groundwater Rights in the Arkansas River and Tributaries be disapproved and be of no force and effect and that the existing 1973 Rules and Regulations continue to be in effect except as provided herein; that any future proposed Amendments to said Rules and Regulations be no more stringent than necessary to prevent injury to surface diverters, promote maximazation of beneficial use and recognize the contribution of the system of conjunctive use thereto; that wells that have been operating for more than eighteen years without curtailment be exempted from regulation to the extent of their unrestrained historic usage pursuant to C.R.S. 1973, 37-92-401(b) (VI); and that senior appropriators be confirmed in their right to make calls selectively, for protection of their priorities, to waters available in the river without making a concurrent call upon wells a condition precedent to the recognition of the surface call.

This decision has been appealed to the Supreme Court but a decision is not expected before Fall. On June 21, 1977, Judge Gobin granted a stay on the eighteen year and selective call provisions. After this stay was granted enforcement of the three-day pumping rule on all wells was resumed. An injunction was sought and granted on one violator.

A decision favorable to the Division Engineer was granted in the Booth Ordhard case. Judge Gobin granted on injunction preventing the irrigating of former Booth land by wells. However, the case has been appealed and Judge Gobin stayed his injunction.

The Division Office has continued its cooperative programs with the County Health Departments and it has been a relatively quiet year as far as 1042 wells are concerned.

SUMMARY OF WELLS
IRRIGATION DIVISION NO. 2

WATER DISTRICT NO.	TYPE OF USE									
	0	1	2	3	4	5	6	7	8	TOTAL
10	24	2,618	101	73	57	11	227	10	107	3,228
11	77	867	7	9	49	6	25	5	16	1,061
12	66	561	70	57	13	13	48	3	8	839
13	27	161	41	32	0	0	29	10	4	304
14	19	1,502	376	132	54	36	855	28	57	3,059
15	38	523	47	36	3	1	113	13	21	795
16	3	172	200	77	5	21	64	3	3	548
17	2	454	625	161	35	24	969	37	57	2,364
18	2	22	54	5	0	0	10	2	7	102
19	10	86	168	26	0	12	16	7	4	329
66	0	80	267	35	3	14	572	7	12	990
67	5	652	1,442	201	37	9	1,423	10	102	3,882
TOTAL	273	7,699	3,403	843	256	147	4,361	135	399	17,516

Type of Use
(0) In House Use Only
(1) Domestic
(2) Stock
(3) Domestic & Stock
(4) Commercial
(5) Industrial
(6) Industrial
(7) Irrigation & Stock
(8) Municipal

Registered wells as of January 11, 1977.

NEW PERMITS ISSUED IN DIVISION 2
1 NOV 76 to 31 OCT 77

New In House Use Only (0)	355
Domestic (1), Stock (2), Domestic and Stock (3)	458
New Commercial (4) (non-tributary)	2
New Industrial (5) (non-tributary)	0
New Irrigation (6) (non-tributary)	4
New Municipal (8) (non-tributary)	3
Replacements for Existing Wells	142
Late Registrations of Exempt Wells	74
Permits Issued to Unregistered Adjudicated Exempt Wells	515
Permits Issued to Unregistered Adjudicated Non-Exempt Wells	146
Denied Applications	57

UNDERGROUND WATER
IRRIGATION DIVISION NO. 2

Irrigation Division 2, composed of Water Districts 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 66, and 67, has of this date 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 through 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 fourteen 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.

UNIT	THICKNESS	PHYSICAL CHARACTER	HYDROLOGIC CHARACTER
Pierre Shale	0 - 2,200'	Shale and sandy shale.	Low-permeability confining bed; acts as a barrier to vertical movement of ground water. Now known to yield water to wells.
Niobrara Formation	0 - 700'	Chalky and marly limestone and calcareous shale.	Low permeability to confining bed; acts as a barrier to vertical movement of ground water. A few stock wells tapping fractured limestone yield less than 5 gpm.
Carlile Shale	0 - 200'	Calcareous shale, limestone, and sandstone.	Low-permeability confining bed; acts as a barrier to vertical movement of ground water. Now 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 limestone 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. Now known to yield water to wells.
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

The above statistics are from a study made prior to the inception of the Rules and Regulations, and may have been based on a pumping season of a full 110 days. If the 1968 total withdrawal figure of 152,000 acre feet was based on full yield pumping for 110 days at 24 hours per day, the 1975 withdrawal would be 3/7 of that or 65,143 acre feet.

The above study appears to be the most recent. If the reader has knowledge of more recent data and wishes to share it with the Division Engineer's Office, it would be most appreciated.

ARKANSAS RIVER COMPACT

IRRIGATION DIVISION NO. 2

Mr. Frank G. Cooley is Chairman of the Arkansas River Compact Administration.

Storage began on November 1, 1976 and continued until April 1, 1977; the gates were not opened until April 11, 1977 by mutual agreement with Colorado and Kansas. At this time, there had been accumulated 20,750 acre feet of which 11,868 acre feet was winter water and 8888 acre feet was Compact water.

This amount was run out starting April 11, 1977 at 0800 hours through April 26, 1977 at 1100 hours.

Storage started on May 21, 1977 and ended the same day. On May 22, 1977, a release started and ended with a total accumulation of 1101 acre feet.

Storage started on August 10, 1977, and ended the same day with an accumulation of 1014 acre feet. Release started August 11 and ended that same day.

Storage started on August 18, 1977 and continued until August 21, 1977. A release started at 0800, August 22, and ended at 1700 hours, August 26, 1977 with 4873 acre feet.

Storage started on December 9 and continued through the end of 1977.

A special meeting of the Arkansas Compact was held in August in Trinidad where Division personnel conducted a tour of the Trinidad Dam and related structures.

The regular meeting of the Compact was held in December in Lamar where the two new Colorado members and one new Kansas member were introduced. Below are listed the Compact Commissioners (asterisk to denote new ones). The Catlin water transfer to the Permanent Pool did not work

Kansas	Colorado
Guy E. Gibson	Felix L. Sparks
Carl E. Bentrup	Leo Idler*
W. F. Stoeckly*	Kent A. Reyher*

out in the Water Court. So as of now there is no Permanent Pool; however, planning is going ahead for alternatives. The proposed Muddy Creek gages have been installed, but no provision has been made to operate them. We have some tentative plans, but nothing to report at this time.

A very serious problem surfaced concerning the Compact Secretary and the Water Commissioner being the same person, with a formal protest by a large upstream canal, and the subsequent failure of the Secretary to implement provisions of the Compact and beginning storage on November 1, and the alledged mishandling of some summer rain peaks. This situation will need resolution soon.

PERSONNEL

Division No. 2

DIVISION OF WATER RESOURCES

NAME	POSITION	DISTRICT	MONTHS WORKED	MILEAGE
Robert W. Jesse	Division Engineer	Division 2	Full Time	19,502
James F. Kasic	Assistant Division Engineer	Division 2	Full Time	8,843
Kenneth J. Cooper	Assistant Division Engineer	Division 2	Full Time	5,896
Robert Ermel	Water Commissioner	District 10	Full Time	15,723
James Everett	Water Commissioner	District 11	Full Time	15,808
George Coffee	Deputy Water Commissioner	District 11	6 months	5,440
Larry Brown	Deputy Water Commissioner	District 11	7 months	3,916
George Wichmann	Water Commissioner	District 12	Full Time	21,464
James J. Javernick	Deputy Water Commissioner	District 12	4 Months	2,031
Juanita Tafoya	Deputy Water Commissioner (beginning August 1, 1976)	District 12	7 Months	4,762
Richard Sierka	Deputy Water Commissioner (beginning May 19, 1977)	District 12	2 Months	1,410
Gayle Patterson	Water Commissioner (Retired Feb. 28, 1977)	District 13	Full Time	5,137
Don Stuart	Deputy Water Commissioner Water Commissioner (beginning March 1, 1977)	District 13	4 Months Full Time	7,512

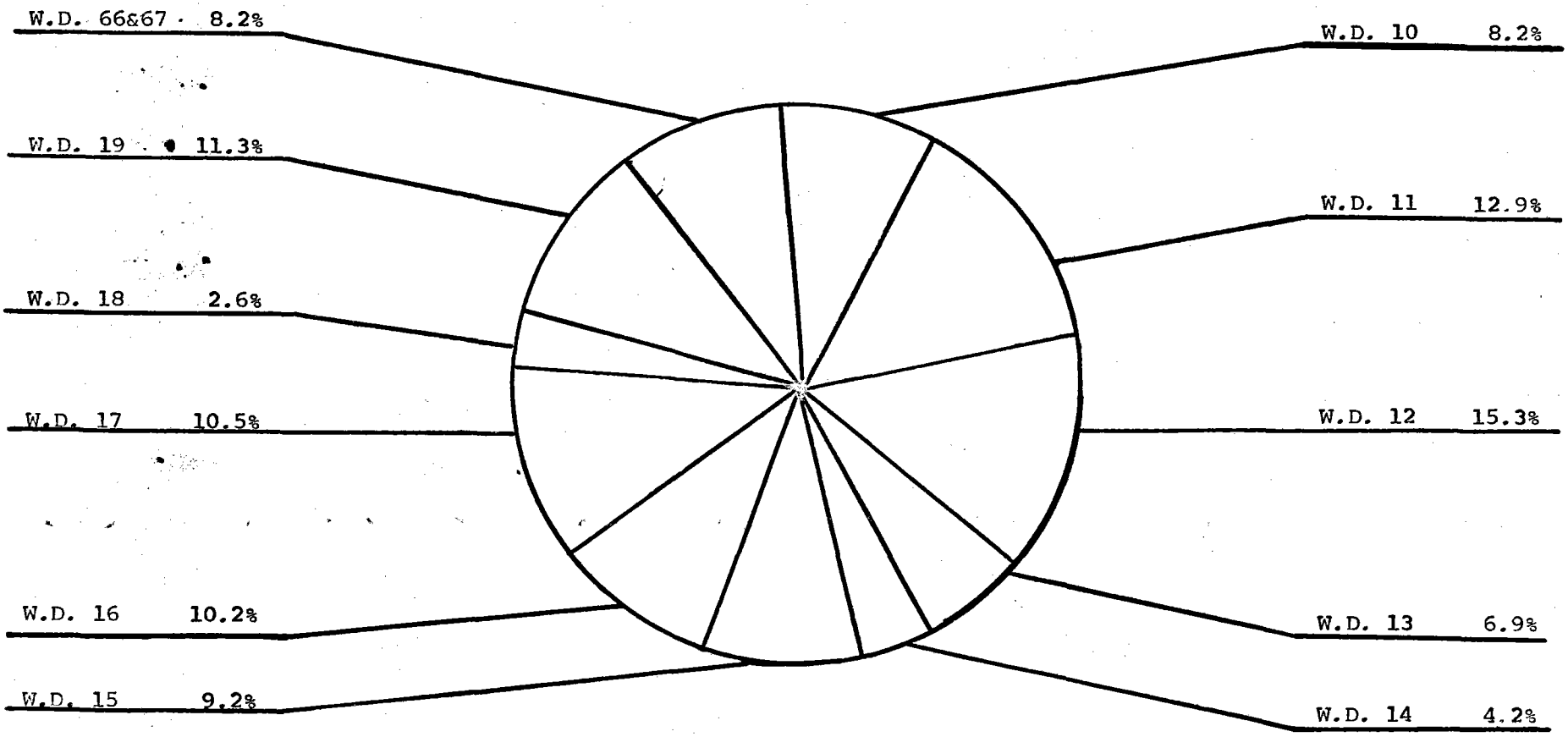
NAME	POSITION	DISTRICT	MONTHS WORKED	MILEAGE
Richard Squire	Deputy Water Commissioner (beginning May 20, 1977)	District 13	2 Months	804
Larry Young	Water Commissioner	District 15	Full Time	17,938
Robert Brgoch	Water Commissioner	District 16	Full Time	11,354
Augustine Garcia	Water Commissioner	District 16	12 Months	8,482
William Pattie	Water Commissioner	District 17	Full Time	18,111
Arlyn Davison	Water Commissioner (beginning June 1, 1977)	District 17	Full Time	2,247
George Watson	Deputy Water Commissioner	District 17	0	0
Leonard Trujillo	Water Commissioner	District 18	12 Months	5,186
Henry Marques	Water Commissioner	District 19	Full Time	19,628
John Cusimano	Deputy Water Commissioner	District 19	26 Days	1,202
Tony Pantano	Contract Employee	District 19	15 Days	542
Manuel Vigil	Deputy Water Commissioner	District 19	8 Days	550
Lane Hackett	Water Commissioner	Districts 66 & 67	Full Time	15,886
Robert Clodfelter	Deputy Water Commissioner	Districts 66 & 67	6 Days	175
George Ridenour	1042 Water Commissioner	Division 2	Full Time	8,296
David DeYoung	Hydrographer	Division 2	Full Time	14,641
Gary Largent	Hydrographer	Division 2	Full Time	25,489

NAME	POSITION	DISTRICT	MONTHS WORKED	MILEAGE
David Lewis	Hydrographer (Terminated April, 1977)	Division 2	Full Time	10,738
Lynna Muse	Administrative Clerk Typist (beginning 9-1-77)	Division 2	Full Time	0

Paid Mileage 193,604

Mileage for State Vehicles 85,109

IRRIGATION DIVISION NO. 2
Water District Mileage
July 1, 1976 to June 30, 1977



Total Miles for Water District: 193,609

SOUTHEASTERN COLORADO
WATER CONSERVANCY DISTRICT
905 HIGHWAY 50 WEST
P. O. BOX 440
PUEBLO, COLORADO 81002

OFFICERS

Tom McCurdy, President, deceased September 20, 1977
Keith Webb, President, P. O. Box 992, La Junta, Colorado 81050

Raymond D. Nixon, Vice President, 2519 Prairie, Colorado Springs, Colorado 80909

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, Colorado 80201

George Everett, Secretary, deceased September 20, 1977
Dr. Wendell Hutchinson, Secretary, 9104 U. S. Highway 50, Salida, Colorado 81201

DIRECTORS

George Everett, deceased September 20, 1977

Glen Everett, 10615 County Road 150, Salida, Colorado 81201

John P. Huebsch, 27 Oak Avenue, Colorado Springs, Colorado 80906

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

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

Tom McCurdy, deceased September 20, 1977

Pete Peters, Route 1, Box 22, Manzanola, Colorado 81058

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

Kenneth Carter, Route 1, Ordway, Colorado 81063

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

Alvin Spady, Route 2, Las Animas, Colorado 81054

Alfred Putnam, 305 St. Vrain Avenue, Las Animas, Colorado 81054

Dave Ciruli, Route 4, Box 793, Pueblo, Colorado 81004

WATER RELATED ORGANIZATIONS

IRRIGATION DIVISION NO. 2
Pueblo, Colorado

Avondale Water and Sanitation District, Roger Ruybal, Manager, P.O. Box 188, Avondale, Colorado 81022
Beaver Park Water Company, Penrose, Colorado 81240
Beehive Water Association, John F. Watters, Cheraw, Colorado 81030
Bent's Fort Water Association, 210 Main, La Junta, Colorado 81050
Boone, Colorado, Barbara Martin, Town Clerk, Boone, Colorado 81025
Town of Buena Vista, Mayor B. D. Case, East Main, P. O. Box B, Buena Vista, Colorado 81211
City of Canon City, Wayne R. Clark, City Engineer, Box 711, Canon City, Colorado 81212
Town of Cheraw, May, Cheraw, Colorado 81030
City of Colorado Springs, James Phillips, Director of Utilities, P. O. Box 1103; City of Colorado Springs, J.A. McCullough, P.O. Box 1103, Colorado Springs, Colorado 80947
Town of Crawley, May Howard Gilmore, Crowley, Colorado 81033
Crowley County Water Association, Harley Ruscher, President, P. O. Box 487, Ordway, Colorado 81063
Town of Eads, Mayor, 1201 Hickman, Eads, Colorado 81036
East End Water Company, Harry Froese, Secretary, Route 2, La Junta, Colorado 81050
Eureka Water Company, Ralph Read, P. O. Box 5, Rocky Ford, Colorado 81067
Fayette Water Association, John Schweizer, Jr., Secretary, Route 1, Box 311, Rocky Ford, Colorado 81067
City of Florence, R. Herdon, City Manager, City Hall, Florence, Colorado 81039
City of Fountain, Richard Brown, Jr., City Administrator, Fountain, Colorado 80817
Town of Fowler, May Murrell Scherrer, 302 Seventh, Fowler, Colorado 81039
Hasty Water Company, Earl Eckerett, Hasty, Colorado 81044
Highland Water and Supply Company, Frank Vance, President, Blende, Colorado 81004
Holbrook Center Soft Water, J. B. Shenk, Secretary, Cheraw, Colorado 81030
Town of La Junta, Mayor Vincent Grace, 1 East 14, La Junta, Colorado 81050
City of Lamar, Francis Hiigle, City Administrator, Box 270, Lamar, Colorado 81052
City of Las Animas, Loyde Gardner, Secretary, Route 1, Box 134, Las Animas, Colorado 81054
Town of Manzanola, Patricia Zwick, Town Clerk, Manzanola, Colorado 81058
Lombard Village Water Association, Levi Martinez, Attorney at Law, Thatcher Building, Pueblo, Colorado 81003
May Valley and Pleasant Valley Water Association, Leonard Courkamp, Wiley, Colorado 81092
McClave Water Association, Harold Falconburg, McClave, Colorado 81057
Newdale-Grand Valley Company, Ernest P. Campbell, President, Route 2, Box 292, Rocky Ford, Colorado 81067

Town of Olney Springs, Geoa Peterie, Olney Springs, Colorado 81062
Town of Ordway, Clair Biddison, Mayor, Ordway, Colorado 81063
Park Center Water District, George Smith, Clerk, P. O. Box 860, Canon City, Colorado 81212
Patterson Valley Water Company, David E. Smith, Treasurer, Route 1, Rocky Ford, Colorado 81067
Penrose Water District, P. O. Box 297, Penrose, Colorado 81240
96 Pipeline Company, Warren B. Arbuthnot, President, Ordway, Colorado 81063
Town of Poncha Springs, Stuart Sexton, Mayor, Poncha Springs, Colorado 81242
Pueblo Board of Water Works, Larry Fontaine, Executive Director, P. O. Box 400, Pueblo, Colorado 81002
Riverside Water Company, Edward T. Jung, Secretary, Route 1, Box 100, Rocky Ford, Colorado 81067
City of Rocky Ford, Kenneth Bruch, City Administrator, 203 South Main Street, Rocky Ford, Colorado 81067
City of Salida, Mayor Edward Touber, P. O. Box 417, Salida, Colorado 81201
Salt Creek Water and Sanitary District, Endalesio Garcia, 1022 Palo Alto Street, Pueblo, Colorado 81004
Security Water District, Thomas K. Remple, 231 Security Boulevard, Security, Colorado 80911
Southside Water Association, John Evers, President, RR 2, La Junta, Colorado 81050
South Swink Water Company, Gladys Jensen, Secretary,P. O. Box 442, Swink, Colorado 81077
St. Charles Mesa Water Association, Lee Simpson, Treasurer, 1397 South Aspen, Pueblo, Colorado 81006
Stratmoor Hills, Fred Erickson, 1811 B Street, Stratmoor Hills, Colorado 80906
Town of Sugar City, Mayor Chris Giese, Sugar City, Colorado 81076
Sugar City Pipeline Company, Henry Herman, Jr., Secretary, Sugar City, Colorado 81076
Town of Swink, Mayor Art O'Neal, Swink, Colorado 81077
Valley and Vroman Water Companies, Albert Stover, Secretary, Box 8, Manzanola, Colorado 81058
West Grand Valley Water, Inc., Blaine Malott, Box 182, Rocky Ford, Colorado 81067
West Holbrook Pipeline Company, Roy Wadleigh, Secretary, Route 2, Box 302, La Junta, Colorado 81050
Widefield Homes Water and Sanitation, James C. Perry, Sr., 3 Widefield, Widefield, Colorado 80911
Town of Wiley, Mayor R. W. Esgar, 405 Gordon, Wiley, Colorado 81092

BU[illegible]TEAD TUNNEL Creek near LEADVILLE, COL.

Daily Gage Height, in Feet, and Discharge in Second-Feet for the Year Ending September 30, 1977

Drainage area ____ square miles. Water stage recorder STEVENS A-35 CONTIN[illegible]

Max. Discharge 605 Sec. ft. at 0200 Hrs on June 8, 1977 G. H. 4.34 ft.

Max. G. H. 4.34 ft. at 0200 Hrs on June 8, 1977 Min. Daily Discharge 0 sec.-ft. on MANY DAYS

Day.	OCT. Gage height	OCT. Discharge	NOV. Gage height	NOV. Discharge	DEC. Gage height	DEC. Discharge	JAN. Gage height	JAN. Discharge	FEB. Gage height	FEB. Discharge	MAR. Gage height	MAR. Discha[rge]
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
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17												
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19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30									XX	XXX		
31			XX	XXX					XX	XXX		

Calendar Year 1976		
13580.49	Total	
37.1	Mean	
26937	Run-off in acre-feet	
494	Maximum	
[illegible]	Minimum	

DIVISION OF WATER RESOURCES
OFFICE OF STATE ENGINEER

No. [illegible]

Rating Table Used STANDARD 1.1

DATUM 6-15-71

Day.	APR. Gage height	APR. Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUG. Gage height	AUG. Discharge	SEPT. Gage height	SEPT. Discharge
1		0	S	° 12	2.73	288		0				
2		0		0	[19] 2.67	° 278		0				
3		0		0	2.58	263		0				
4		0	S	° 20	2.62	270		0				
5		0	[18] .80	.01 40	2.68	280		0				
6		0	1.05	° 62	2.78	297		0				
7		0	1.38	97	2.72	287		0				
8		0	1.78	145	3.28	387		0				
9		0	2.08	187	2.87	312		0				
10		0	2.01	177	2.44	241		0				
11		0	1.70	135	2.07	185		0				
12		0	1.57	119	1.61	124		0				
13		0	1.66	130	1.17	74		0				
14		0	1.69	131	.85	45		0				
15		0	1.08	65	.23	35		0				
16		0	.92	50	S	18		0				
17		0	S	26		0		0				
18		0	.26	6.7		0		0				
19		0	S	10		0		0				
20		0		0		0		0				
21		0		0		0		0				
22		0		0		0		0				
23		0		0		0		0				
24		0	S	56		0		0				
25		0	1.52	113		0	S	20				
26		0	1.42	101		0	S	27				
27		0	1.13	70		0		0				
28	S	5.3	S	31		0		0				
29	.38	12	S	40		0		0				
30	S	17	S	153		0		0				
31	XX	XXX	2.57	262	XX	XXX		0			XX	XXX
		34.3		2238.7		3384.0		47.0				
		1.14		72.2		113		1.52				
		68		4440		6712		93				
		17		262		387		27				
		0		0		0		0				

Quarter: 4th — 3rd — 2nd — 1st
Computed: D DeYoung
Checked: J. Sullivan
Date: 12-16-77

Quarter: 4th — 3rd — 2nd — 1st
Dis.appld.: D DeYoung
Dis.check: J. Sullivan
Date: 12-16-77

Quarter: 4th — 3rd — 2nd — 1st
G.H.copd.: D DeYoung
G.H.check: L Samuelz
Date: 11-28-77

Water Year 1977

5704

15.6

11314

387

0

WO[illegible] EXTENSION DITCH [illegible] TENNESSEE PASS, [illegible]

Daily Gage Height, in Feet, and Discharge in Second-Feet for the Year Ending September 30, 1977

Drainage area _____ square miles. Water stage recorder STEVENS "F" WEEKLY

Max. Discharge 6.2 Sec. ft. at 0400 Hrs. on May 11, 1977 G. H. 0.43 ft. many dates
Max. G. H. 0.43 ft. at 0500 Hrs on May 11, 1977 Min. Daily Discharge 0 sec.-ft. on many dates

Day.	OCT.		NOV.		DEC.		JAN.		FEB.		MAR.	
	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge
1												
2												
3												
4												
5												
6												
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8												
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22												
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24												
25												
26												
27												
28												
29									XX	XXX		
30									XX	XXX		
31			XX	XXX								

Calendar Year 1976

350.72	Total
0.96	Mean
696	Run-off in acre-feet
12	Maximum

DIVISION OF WATER RESOURCES
OFFICE OF STATE ENGINEER

Sta. No. _____

Rating Table Used STANDARD 6 FT [illegible]

DATED 6-22-71

Day	APR. Gage height	APR. Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUG. Gage height	AUG. Discharge	SEPT. Gage height	SEPT. Discharge
1				0	0.29	3.3						
2				0	.28	3.2						
3				0	.25	2.6						
4				0	.22	2.1						
5				0	.19	1.7						
6				0	.17	1.4						
7				0	.17	1.4						
8			S	1.6	.18	1.6						
9			0.25	2.6	.18	1.6						
10			.25	2.6	.17	1.4						
11			.27	3.0	.15	1.2						
12			.24	2.5	.13	.93						
13			.25	2.6	.12	.82						
14			.21	2.0	.10	.61						
15			.19	1.7	.08	.43						
16			.22	2.1	.07	.35						
17			.21	2.0	.07	.35						
18			.22	2.1	.07	.35						
19			.20	1.8	.06	.27						
20			.18	1.6	.05	.20						
21			.13	.93	.05	.20						
22			.15	1.2	.03	09						
23			.21	2.0	0	0						
24			.24	2.5		0						
25			.23	2.3		0						
26			.21	2.0		0						
27			.21	2.0		0						
28			.19	1.7		0						
29			.18	1.6		0						
30			.21	2.0		0						
31	XX	XXX	.26	2.8	XX	XXX					XX	XXX
			49.23		26.1							
			1.59		0.87							
			98		52							
			3.0		3.3							
			0		0							

Quarter: 4th / 3rd / 2nd / 1st — Computed: D. DeYoung — Checked: J. Sullivan — Date: 12-16-77

Quarter: 4th / 3rd / 2nd / 1st — Dis.appld.: D. DeYoung — Dis.check: J. Sullivan — Date: 12-16-77

Quarter: 4th / 3rd / 2nd / 1st — G.H.copd.: D. DeYoung — G.H.check: J. Sullivan — Date: 12-16-77

Water Year 1977

75.33

0.21

149

3.3

ERT... DITCH Creek near TENNESSEE PASS, CO...

Daily Gage Height, in Feet, and Discharge in Second-Feet for the Year Ending September 30, 1977

Drainage area _____ square miles. Water stage recorder STEVENS "F" WEEKLY

Max. Discharge 22 Sec. ft. at 2100 Hrs. on May 8, 1977 G. H. 0.97 ft. MANY DAYS
Max. G. H. 1.58 ft. at 2200 Hrs on May 16, 1977 Min. Daily Discharge 0 sec.-ft. on MANY DAYS
S - discharge subdivided

Day.	OCT. Gage height	OCT. Discharge	NOV. Gage height	NOV. Discharge	DEC. Gage height	DEC. Discharge	JAN. Gage height	JAN. Discharge	FEB. Gage height	FEB. Discharge	MAR. Gage height	MAR. Discharge
1	0.11	.01 0.82										
2	.11	.82										
3	.12	.93										
4	.12	.93										
5	.12	.93										
6	.12	.93										
7	.11	.82										
8	.13	1.0										
9	.13	1.0										
10	.12	.93										
11	.12	.93										
12	.11	.82										
13	.11	.82										
14	.08	.52										
15	.06	.35										
16	.06	.35										
17	.06	.35										
18	.06	.35										
19	.06	.35										
20	.06	.35										
21	.06	.35										
22	.06	.35										
23	.06	.35										
24	.06	.35										
25	.06	.35										
26	.05	.27										
27	.05	.27										
28	S	.01 .14										
29		0										
30		0										
31		0	XX	XXX					XX	XXX		

Calendar Year 1976		
1321.43	Total	16.73
3.61	Mean	.54
2621	Run-off in acre-feet	33
44	Maximum	1.0

DIVISION OF WATER RESOURCES
OFFICE OF STATE ENGINEER

Sta. No. [illegible]
Rating Table Used STANDARD [illegible]
DATED 6-22-71

APR. Gage height	APR. Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUG. Gage height	AUG. Discharge	SEPT. Gage height	SEPT. Discharge	Day.
	0	0.24	(0) 2.5	0.72	(.04) 13	S	(0) .01					1
	0	.28	3.2	.67	12		0					2
	0	.26	2.8	.62	10		0					3
	0	.23	2.3	.59	9.2		0					4
	0	.27	3.0	.56	8.5	S	(0) .06					5
	0	.36	4.7	.54	7.9	.08	.43					6
	0	.60	(0) 11	.50	7.0	.10	.61					7
	0	.71	(.01) 14	.46	6.0	.11	.71					8
	0	.77	16	.52	7.4	.13	.93					9
	0	.76	(.01) 15	.44	5.6	.16	1.3					10
	0	.67	(.02) 12	.36	3.9	.12	.82					11
	0	.58	9.5	.31	3.0	S	(0) .10					12
	0	.66	(.02) 12	.28	2.5		0					13
	0	.53	(.03) 7.9	.26	2.1		0					14
	0	.36	(.04) 3.9	[31] .24	(.04) 1.8		0					15
	0	.41	4.9	.21	(.04) 1.4		0					16
	0	.39	4.5	.18	(.02) 1.3		0					17
	0	[20] .37	(.04) 4.1	.16	1.0		0					18
	0	.36	3.9	.15	(.02) .93		0					19
	0	.33	3.3	.13	(.01) .82		0					20
	0	.26	2.1	.12	(.01) .71		0					21
	0	.28	2.5	.10	(0) .61		0					22
	0	S	6.2	.10	.61		0					23
	0	.59	9.2	.12	.82		0					24
	0	.55	8.2	.09	.52		0					25
	0	.52	7.4	.08	.43		0					26
	0	.45	5.8	.07	.35		0					27
	0	.41	4.9	.07	.35		0					28
S	(0) .25	S	6.1	.05	.20		0					29
.14	(0) 1.0	.62	10	.04	(0) .14		0					30
XX	XXX	.69	(.04) 12	XX	XXX		0			XX	XXX	31

APR.	MAY	JUNE	JULY	AUG.	SEPT.	Water Year 1977
1.25	214.9	110.09	4.96			347.93
.04	6.93	3.67	.16			.95
2.48	426	218	9.84			690
1.0	16	13	1.3			16
[illegible]	[illegible]	[illegible]	[illegible]			[illegible]

Quarter	Computed	Checked	Date
1st–3rd	D. DeYoung	J. Sullivan	12-16-77

Quarter	Dis. appld.	Dis. check	Date
1st–3rd	D. DeYoung	L. Schultz	10-24-77

Quarter	G.H. copd.	G.H. check	Date
1st–3rd	D. DeYoung	L. Schultz	10-24-77

Water Year 1977

BUSH - IVANHOE TUNNEL Creek near LEADVILLE, COLO.

Daily Gage Height, in Feet, and Discharge in Second-Feet for the Year Ending September 30, 1977

Drainage area _____ square miles. Water stage recorder STEVENS "F" WEEKLY

Max. Discharge 60 Sec. ft. at 0700 Hrs on June 8, 1922 G. H. 1.48 ft.
Max. G. H. 1.48 ft. at 0700 Hrs on June 8, 1922 Min. Daily Discharge 0 sec.-ft. on many days
S - subdivided discharge

Day.	OCT. Gage height	OCT. Discharge	NOV. Gage height	NOV. Discharge	DEC. Gage height	DEC. Discharge	JAN. Gage height	JAN. Discharge	FEB. Gage height	FEB. Discharge	MAR. Gage height	MAR. Discharge
1	a	2.6										
2	.18	+.03 2.6										
3	.18	2.6										
4	.18	2.6										
5	.19	2.8										
6	.20	+.03 3.0										
7	a	3.2										
8	.22	+.03 3.4										
9	.22	3.4										
10	.21	3.2										
11	.19	2.8										
12	.18	2.6										
13	.18	2.6										
14	.18	2.6										
15	.17	+.03 2.4										
16	a	2.2										
17	|	2.0										
18	a	1.8										
19	.14	+.03 1.8										
20	.13	1.7										
21	.13	1.7										
22	.13	1.7										
23	.13	1.7										
24	.12	1.5										
25	.11	1.4										
26	.12	1.5										
27	.12	1.5										
28	.11	1.4										
29	.11	+.03 1.4										
30		0							XX	XXX		
31		0	XX	XXX					XX	XXX		

Calendar Year		
1976		
2381.3	Total	65.7
6.51	Mean	2.12
4723	Run-off in acre-feet	130
85	Maximum	3.4

DIVISION OF WATER RESOURCES
OFFICE OF STATE ENGINEER

NO. _____

Rating Table Used _____

Day	APR. Gage height	APR. Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUG. Gage height	AUG. Discharge	SEPT. Gage height	SEPT. Discharge
1				0	1.33	51	0.23	2.8	0.11	0.92	0.08	0.55
2			S	1.0	1.39	54	.21	2.4	.10	.79	.08	.55
3			.21	2.6	1.39	54	.20	2.2	.10	.79	.08	.55
4			.26	3.7	1.41	56	.20	2.2	.09	.67	.08	.55
5			.42	7.9	1.41	56	.22	2.6	.10	.79	.08	.55
6			.66	16	1.43	57	.22	2.6	.10	.79	.08	.55
7			.70	18	1.45	58	.20	2.2	.09	.67	.08	.55
8			.72	19	1.46	59	a	2.2	.08	.55	.08	.55
9			.76	21	1.44	58	|	2.0	.08	.55	.08	.55
10			.82	23	1.42	56	a	2.0	.06	.35	.08	.55
11			1.11	38	1.35	52	.18	2.0	.06	.35	.08	.55
12			1.05	35	1.15	40	.16	1.7	.06	.35	.11	.92
13			a	30	1.01	33	.14	1.4	.06	.35	.11	.92
14			|	26	.90	27	.11	.92	.07	.45	.11	.92
15			|	21	.81	22	.09	.67	.07	.45	.10	.79
16			a	18	a	18	.08	.55	.08	.55	.10	.79
17			.67	17	.61	14	.07	.45	.09	.67	.09	.67
18			.62	15	.55	12	.08	.55	.12	1.1	.08	.55
19			a	15	.50	9.8	.09	.67	.14	1.4	.08	.55
20			|	14	.45	8.2	.10	.79	.17	1.8	.08	.55
21			|	13	.42	7.3	.11	.92	.17	1.8	.08	.55
22			|	13	.39	6.5	.14	1.4	.17	1.8	.08	.55
23			a	14	.35	5.4	.22	2.8	.15	1.5	.11	.92
24			.74	20	.34	5.1	.23	3.0	.13	1.2	a	.79
25			.80	22	.35	5.4	.30	4.6	.12	1.1	a	.67
26			.81	23	.33	4.9	.28	4.1	.11	.92	.09	.67
27			.77	21	.32	4.6	.24	3.2	.10	.79	.08	.55
28			.71	18	[21].31	.02 4.4	[22].21	2.6	.10	.79	.08	.55
29			.73	19	.28	3.7	.17	1.8	.09	.67	.08	.55
30			.93	28	.26	.02 3.2	.15	1.5	.08	.55	.09	.67
31	XX	XXX	1.16	41	XX	XXX	.13	1.2	.08	.55	XX	XXX
				573.2		845.5		60.02		26.01		19.18
				18.5		28.2		1.94		.84		.64
				1137		1677		119		52		38
				41		59		4.6		1.8		.92

Quarter	Computed	Checked	Date
4th			
3rd	D DeYoung	L Schultz	11-28-77
2nd			
1st			

Quarter	Dis.appld.	Dis.check	Date
4th			
3rd	D DeYoung	L Schultz	11-28-77
2nd			
1st			

Quarter	G.H.copd.	G.H.check	Date
4th			
3rd	D DeYoung	L Schultz	11-28-77
2nd			
1st			

Water Year 1977

COLUMBINE DITCH Creek near FREMONT PASS, COLO.

Daily Gage Height, in Feet, and Discharge in Second-Feet for the Year Ending September 30, 1977

Drainage area _____ square miles. Water stage recorder STEVENS "F" WEEKLY

Max. Discharge 51 Sec. ft. at 1800 Hrs. on June 7, 1977 G. H. 1.63 .63 ft.
Max. G. H. 1.63 ft. at 1800 Hrs. on June 2 1977 Min. Daily Discharge 0 sec.-ft. on MANY DAYS

Day.	OCT.		NOV.		DEC.		JAN.		FEB.		MAR.	
	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discha
1	0.16 .02	1.0										
2	.14	.82										
3	.13	.71										
4	.13	.71										
5	.13	.71										
6	.12	.61										
7	.15	.93										
8	.15	.93										
9	.18	1.3										
10	.19	1.4										
11	.16	1.0										
12	.16	1.0										
13	.14	.82										
14	.13	.71										
15	.13	.71										
16	.13	.71										
17	.13	.71										
18	.13	.71										
19	.14	.82										
20	.13	.71										
21	S .02	.24										
22		0										
23		0										
24		0										
25		0										
26		0										
27		0										
28		0										
29		0										
30		0							XX	XXX		
31		0	XX	XXX					XX	XXX		
Total		17.26										
Mean		0.56										
Run-off in acre-feet		34										
Maximum		1.4										

Calendar Year

DIVISION OF WATER RESOURCES
OFFICE OF STATE ENGINEER

Sta. No.

Rating Table Used

APR.		MAY		JUNE		JULY		AUG.		SEPT.		
Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Day.
			0	1.11	.03 27	0.17	.03 1.0	0.10	.03 .35			1
			0	1.12	28	.17	1.0	.09	.27			2
			0	1.02	24	.17	1.0	.08	.20			3
			0	1.06	25	.17	1.0	.08	.20			4
			0	1.06	25	.17	1.0	.10	.35			5
			0	S	21	.16	.93	.08	.03 .20			6
		S	.03 2.7	S	24	.15	.82	.05	.02 .09			7
		.70	13	S	20	.14	.71	.04	.05			8
		S	20	S	20	.14	.71	.05	.09			9
		.72	13	S	14	.13	.61	.05	.09			10
		S	17	.58	9.2	.12	.52	.04	.02 .05			11
		S	12	.54	8.2	.11	.43	.03	.01 .05			12
		.63	11	.48	6.7	.12	.52	.03	.01 .05			13
		S	11	.47	6.5	.12	.52	.02	0 .05			14
		.42	5.4	13] .41	.03 5.1	.12	.52	.03	.01 .05			15
		S	4.7	.38	4.5	.10	.35	S	.03 .97			16
		.21	1.6	.34	3.7	.11	.43	.06	.02 .14			17
		12] .22	.03 1.7	.32	3.3	.11	.43	.07	.20			18
		S	2.8	.29	2.8	.13	.61	.10	.43			19
		.30	3.0	.28	2.6	.13	.61	.09	.35			20
		.22	1.7	.27	2.5	.13	.61	S	.42			21
		.24	2.0	.25	2.1	.13	.61	.15	.02 .93			22
		S	5.3	.23	1.8	.16	.93	.08	.01 .35			23
		.58	9.2	.23	1.8	.20	1.4	.02	0 .05			24
		.52	7.7	.22	1.7	.18	1.2		0			25
		.60	9.8	.22	1.7	.15	.82		0			26
		.46	6.2	.21	1.6	14] .13	.03 .61		0			27
		.34	3.7	.20	1.4	.12	.52		0			28
		S	7.4	.18	1.2	.11	.43		0			29
		S	19	.17	.03 1.0	.10	.35		0			30
XX	XXX	1.13	.03 28	XX	XXX	.10	.03 .35		0	XX	XXX	31
			218.9		297.4		21.55		5.98			561.09
			7.06		9.91		0.70		0.19			1.54
			434		590		43		12			1113
			20		28		1.4		0.97			28
			0		1.0		0.35		0			

Quarter	Computed	Checked	Date
4th / 3rd / 2nd / 1st	D DeYoung	J. Sullivan	12-16-77

Quarter	Dis. appld.	Dis. check	Date
4th / 3rd / 2nd / 1st	D DeYoung	J. Sullivan	12-16-77

Quarter	G.H. copd.	G.H. check	Date
4th / 3rd / 2nd / 1st	D DeYoung	A. Schultz	11-28-77

Water Year 1977

ING DITCH — Creek near TENNESSEE PASS, COLORADO

Daily Gage Height, in Feet, and Discharge in Second-Feet for the Year Ending September 30, 19 77

Drainage area _____ square miles. Water stage recorder STEVENS "F" WEEKLY

Max. Discharge 10 Sec. ft. at 0600 hrs on May 11, 1977 G. H. .76 ft.

Max. G. H. .76 ft. at 0600 hrs on May 11, 1977 Daily Discharge 0 sec.-ft. on MANY DAYS

"S" - Subdivided days "V" - Variable Shift

Day.	OCT. Gage height	OCT. Discharge	NOV. Gage height	NOV. Discharge	DEC. Gage height	DEC. Discharge	JAN. Gage height	JAN. Discharge	FEB. Gage height	FEB. Discharge	MAR. Gage height	MAR. Discharge
1	.18	.80										
2	.18	.80										
3	.18	.80										
4	.18	.80										
5	.17	.72										
6	.18	.80										
7	.17	.72										
8	a	.72										
9	.18	.80										
10	.18	.80										
11	.18	.80										
12	.18	.80										
13	.17	.72										
14	.17	.72										
15	.17	.72										
16	.16	.64										
17	.17	.72										
18	.17	.72										
19	.16	.64										
20	.17	.72										
21	.16	.64										
22	.16	.64										
23	.17	.72										
24	.17	.72										
25	.16	.64										
26	.17	.72										
27	.17	.72										
28	S	.36										
29		0										
30		0								XX	XXX	
31		0	XX	XXX						XX	XXX	

Calendar Year 1976

4	Total	20.12
1.29	Mean	.65
939	Run-off in acre-feet	40
8.1	Maximum	.80
0	Minimum	0

…ATE OF COLORADO
DIVISION OF WATER RESOURCES
OFFICE OF STATE ENGINEER

Sta. No. ______________________

Rating Table Used ______________________

Day	APR. Gage height	APR. Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUG. Gage height	AUG. Discharge	SEPT. Gage height	SEPT. Discharge
1			S	.55	.42	3.8	.26	1.7	.17	.80	.14	.72
2			.35	2.8	.42	3.8	.25	1.6	.17	.80	.13	.64
3			.33	2.5	.42	3.8	.25	1.6	.17	.80	.14	.72
4			.31	2.3	.42	3.8	.26	1.7	.17	.80	.15	.80
5			.42	3.8	.42	3.8	.26	1.7	.18	.89	.15	.80
6			.48	4.7	.42	3.8	.26	1.7	.18	.89	.14	.72
7			.50	5.0	.42	3.8	.24	1.5	.17	.80	.13	.64
8			S	5.3	.43	3.9	.23	1.4	.17	.80	.13	.64
9			.51	5.2	.43	3.9	.23	1.4	.16	.72	.14	.72
10			.49	4.9	.42	3.8	.22	1.3	.15	.72	.14	.72
11			.53	5.5	.41	3.6	.22	1.3	.15	.72	.15	.80
12			.49	4.9	.40	3.5	.21	1.2	.16	.80	.15	.80
13			.43	3.9	.39	3.3	.22	1.3	.16	.80	.15	.80
14			.40	3.5	.38	3.2	.21	1.2	.16	.80	.14	.72
15			.36	2.9	.37	3.1	.20	1.1	.17	.89	.14	.72
16			.37	3.1	.36	2.9	.19	1.0	.18	.98	.14	.72
17			.40	3.5	.35	2.8	.19	1.0	.18	.98	.14	.72
18			.37	3.1	.34	2.6	.19	1.0	.18	.98	.13	.64
19			.36	2.9	.33	2.5	.20	1.1	.18	.98	.13	.64
20			.31	2.3	.33	2.5	.20	1.1	.18	.98	.13	.64
21			.30	2.2	.32	2.4	.20	1.1	.18	.98	.13	.64
22			.36	2.9	.32	2.4	.20	1.1	.18	.98	.13	.64
23			.40	3.5	.31	2.3	.21	1.2	.17	.89	.14	.72
24			.40	3.5	.31	2.3	.23	1.4	.17	.89	.14	.72
25			.39	3.3	.30	2.2	.22	1.3	.16	.80	.13	.64
26			.38	3.2	.29	2.0	.20	1.1	.16	.80	.13	.64
27			.37	3.1	.29	2.0	.19	1.0	.15	.80	.13	.64
28			.36	2.9	.28	1.9	.18	.89	.15	.80	.13	.64
29			.36	2.9	.27	1.8	.18	.89	.15	.80	.13	.64
30			.38	3.2	.27	1.8	.18	.89	.15	.80	.13	.64
31	XX	XXX	.42	3.8	XX	XXX	.17	.80	.15	.80	XX	XXX
				107.15		89.3		38.57		26.27		20.88
				3.46		2.98		1.24		.85		.70
				213		177		77		52		41
				5.5		3.9		1.7		.98		.80
				.55		1.8		.80		.72		.64

Quarter	Computed	Checked	Date
4th, 3rd, 2nd, 1st	J. Sullivan	D. DeYoung	12-14-77

Quarter	Dis. appld.	Dis. check	Date
4th, 3rd, 2nd, 1st	J. Sullivan	D. DeYoung	12-14-77

Quarter	G.H. copd.	G.H. check	Date
4th, 3rd, 2nd, 1st	J. Sullivan	D. DeYoung	12-14-77

Water Year 1977

302.29
0.83
600
5.5
0

TWIN LAKES TUNNEL Creek near TWIN LAKES, COLO.

Daily Gage Height, in Feet, and Discharge in Second-Feet for the Year Ending September 30, 1977

Drainage area _____ square miles. Water stage recorder STEVENS A-35 CONTINU

Max. Discharge 550 Sec. ft. at 0200 Hrs on June 9, 1977 G. H. 4.67 ft. MANY DAYS
Max. G. H. 4.67 ft. at 0200 Hrs on June 9, 1977 Min. Daily Discharge 0.39 sec.-ft. on DAYS

Day.	OCT.		NOV.		DEC.		JAN.		FEB.		MAR.	
	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Di
1	a	0.39	a	.39	0.18	3.0	0.17	2.7	0.12	1.6	0.14	
2		.39		.39	a	3.0	.17	2.7	.12	1.6	.14	
3		.39		.39	.18	3.0	.15	2.2	.12	1.6	a	
4		.39		.39	.18	3.0	.16	2.5	.12	1.6	a	
5		.39		.39	.18	3.0	a	2.2	.12	1.6	.16	
6		.39		.39	.18	3.0	a	2.2	.12	1.6	.15	
7		.39		.39	.17	2.7	.15	2.2	.12	1.6	.15	
8		.39	a	.39	.17	2.7	.15	2.2	.12	1.6	.14	
9		.39	0.10	1.2	.17	2.7	.15	2.2	.12	1.6	.14	
10		.39	.10	1.2	.17	2.7	.15	2.2	.12	1.6	.14	
11		.39	.10	1.2	.17	2.7	.15	2.2	.12	1.6	.14	
12		.39	.10	1.2	.17	2.7	.15	2.2	.12	1.6	.14	
13		.39	.10	1.2	.17	2.7	.15	2.2	.12	1.6	.13	
14		.39	.12	1.6	.17	2.7	.15	2.2	.12	1.6	.13	
15		.39	.11	1.4	.17	2.7	.15	2.2	.12	1.6	.13	
16		.39	.12	1.6	.16	2.5	.15	2.2	.12	1.6	a	
17		.39	.17	2.7	.16	2.5	.15	2.2	.12	1.6		
18		.39	a	3.3	.17	2.7	.15	2.2	.12	1.6	a	
19		.39	a	3.8	.17	2.7	.14	2.0	.12	1.6	.14	
20		.39	.23	4.4	a	2.5	.14	2.0	.12	1.6	.14	
21		.39	.22	4.2		2.5	.13	1.8	.12	1.6	.14	
22		.39	.21	3.8		2.2	.13	1.8	.13	1.8	.14	
23		.39	.20	3.6	a	2.2	.14	2.0	.14	2.0	.13	
24		.39	.21	3.8	.15	2.2	.15	2.2	.14	2.0	.14	
25		.39	.22	4.2	.17	2.7	.15	2.2	.14	2.0	.14	
26		.39	.22	4.2	.17	2.7	a	2.0	.14	2.0	.14	
27		.39	.22	4.2	.17	2.7		1.8	.14	2.0	.14	
28		.39	.21	3.8	.17	2.7	a	1.6	.14	2.0	.14	
29		.39	.20	3.6	.17	2.7	.12	1.6	XX	XXX	.14	
30		.39	.19	3.3	.17	2.7	.12	1.6	XX	XXX	.14	
31	a	.39	XX	XXX	.17	2.7	.12	1.6	XX	XXX	.14	
21013.43 Total		12.09		66.62		83.2		65.1		47.4		61.
52.4 Mean		0.39		2.22		2.68		2.10		1.69		1.
41680 Run-off in acre-feet		24		132		165		129		94		12
		-		4.4		3.0		2.7		2.		2.

Calendar Year 1976

STATE OF COLORADO
DIVISION OF WATER RESOURCES
OFFICE OF STATE ENGINEER

Sta. No. _____

Rating Table Used _____

Day.	APR. Gage height	APR. Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUG. Gage height	AUG. Discharge	SEPT. Gage height	SEPT. Discharge
1	0.14	2.0	S	41	3.64	369	S	42	0.57	19	S	5.4
2	.14	2.0	S	45	3.63	368	.51	16	.56	18	.39	10
3	.14	2.0	S	62	3.23	305	.51	16	.55	18	.38	9.9
4	.15	2.2	S	74	3.24	307	.57	19	.55	18	.39	10
5	.15	2.2	22 S	° 58	3.50	347	.56	18	.55	18	.38	9.9
6	.15	2.2	1.62	101	3.64	369	.45	13	.55	18	.38	9.9
7	.15	2.2	S	77	3.48	344	.58	20	.54	17	.36	9.1
8	.16	2.5	S	147	4.34	490	.52	16	.53	17	.37	9.5
9	.17	2.7	S	114	4.31	484	.53	17	.52	16	.36	9.1
10	.18	3.0	S	223	3.32	319	S	14	.30	6.8	.35	8.7
11	.20	3.6	S	267	2.95	264	.29	6.4	.12	1.6	a	8.7
12	.20	3.6	1.98	139	2.45	196	.38	9.9	.12	1.6	a	9.1
13	.20	3.6	1.98	139	2.80	243	.33	7.9	.12	1.6	.32	9.5
14	.19	3.3	2.20	165	2.77	239	.31	7.2	.13	1.8	.36	9.1
15	.19	3.3	1.64	103	2.51	204	.35	8.7	.13	1.8	.36	9.1
16	.19	3.3	1.22	64	2.10	153	.32	9.5	.12	1.6	.37	9.5
17	.18	3.0	1.23	65	2.22	168	.36	9.1	.12	1.6	.37	9.5
18	.21	3.8	1.38	78	2.22	168	.35	8.7	.14	2.0	.37	9.5
19	.22	4.2	1.32	73	1.98	139	S	10	S	4.3	.37	9.5
20	.22	4.2	1.03	49	1.80	120	.66	24	.62	22	.37	9.5
21	.21	3.8	1.03	49	1.66	105	.67	25	.61	21	.37	9.5
22	.21	3.8	1.03	49	1.16	59	1.09	54	.60	21	.37	9.5
23	.24	4.8	1.28	69	1.12	56	S	24	.60	21	.35	8.7
24	S	4.4	1.96	137	1.16	59	.14	2.0	.59	20	a	8.7
25	S	4.3	2.03	145	1.21	63	S	8.5	.59	20	.36	9.1
26	S	5.0	1.55	94	1.23	65	.60	21	.58	20	.35	8.7
27	S	4.5	1.56	95	1.25	67	24 .60	° 21	.58	20	.34	8.3
28	S	36	1.46	86	1.26	68	.60	21	.57	19	.33	7.9
29	S	40	1.42	82	25 1.26	° 68	.60	21	.56	18	.33	7.9
30	S	16	2.35	183	1.24	66	.60	21	S	14	.33	7.9
31	XX	XXX	3.14	292	XX	XXX	.59	20	.12	1.6	XX	XXX
	181.5		3365		6272		530.9		401.3		270.7	
	6.05		109		209		17.1		13.0		9.02	
	360		6674		12441		1053		796		537	
	4.0		292		490		42		22		10	
	2.0		41		56		2.0		1.6		7.9	

Quarter | 1st | 2nd | 3rd | 4th

Computed: D. DeYoung — Checked: J. Sullivan — Date: 12-23-77

Dis.appld. — Dis.check — Date

G.H.copd. — G.H.check — Date

Water Year 1977

HOMESTAKE TUNNEL near LEADVILLE, COLO.

Daily Gage Height, in Feet, and Discharge in Second-Feet for the Year Ending September 30, 19 7

Drainage area _____ square miles. Water stage recorder STEVENS "F" WEEKLY

Max. Discharge 206 Sec. ft. at 0700 Hrs. on April 23, 1972 G. H. 2.53 ft.
Max. G. H. 2.53 ft. at 0700 Hrs on April 23, 1972 Min. Daily Discharge 0 sec.-ft. on many days

Day.	OCT.		NOV.		DEC.		JAN.		FEB.		MAR.	
	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discha
1												0
2												0
3												0
4												0
5												0
6												0
7												0
8												0
9												0
10												0
11												0
12												0
13												0
14												0
15												0
16												0
17												0
18												0
19												0
20												0
21												0
22												0
23												0
24												0
25											S	
26											2.50	20
27											2.50	20
28											2.50	20
29											2.50	20
30									XX	XXX	2.50	20
31			XX	XXX					XX	XXX	2.49	20
Calendar Year 1976												
0 Total												12
Mean												41.
Run-off in acre-feet												25
Maximum												2

STATE OF COLORADO
DIVISION OF WATER RESOURCES
OFFICE OF STATE ENGINEER

Sta. No. 09063700
Rating Table Used 12 FT PARSHALL FLUME
DATED 6-15-71

Day.	APR. Gage height	APR. Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUG. Gage height	AUG. Discharge	SEPT. Gage height	SEPT. Discharge
1	2.47	199	1.60	99	1.62	101	1.60	99				
2	2.42	192	1.61	100	1.62	101	1.62	101				
3	2.42	192	1.61	100	1.62	101	1.62	101				
4	2.46	197	1.61	100	1.63	102	1.61	100				
5	2.48	200	1.61	100	1.63	102	1.71	110				
6	a	201	1.61	100	1.64	103	1.85	125				
7		200	1.61	100	1.65	104	1.84	124				
8	a	200	1.61	100	1.63	102	1.84	124				
9	2.48	200	1.61	100	1.60	99	1.83	123				
10	2.48	200	1.61	100	1.60	99	1.82	122				
11	2.48	200	1.61	100	1.60	99	1.81	121				
12	2.47	199	1.60	99	1.60	99	1.80	120				
13	2.50	203	1.59	98	1.60	99	1.79	119				
14	2.51	204	1.59	98	1.60	99	1.81	121				
15	2.50	203	1.59	98	1.60	99	1.82	122				
16	a	201	1.60	99	1.61 (13)	100	1.80	120				
17	2.48	200	1.60	99	1.61	100	1.79	119				
18	2.49	201	1.61	100	1.61	100	1.78	118				
19	2.51	204	1.62	101	1.61	100	1.78	118				
20	2.50	203	1.62	101	1.61	100	1.79	119				
21	2.49	201	1.62	101	1.62	101	1.77	117				
22	2.51	204	1.62	101	1.63	102	a	174				
23	2.51	204	1.61	100	1.63	102	S	154				
24	2.50	203	1.61	100	1.62	101	S	10				
25	1.94	135	1.61	100	1.62	101	.41	11				
26	1.61	100	1.61	100	1.62	101	.25	5.1				
27	1.61	100	a	100	1.61	100	.17	2.7				
28	1.61	100		100	1.61	100	S	.27				
29	1.61	100		100	1.60	99		0				
30	1.61	100		100	1.60	99		0				
31	XX	XXX	a	100	XX	XXX		0			XX	XXX
	5441.		3094		3015		2800.07					15653.07
	182		99.8		100		90.3					42.9
	10802		6137		5980		5554					3104B.
	204		101		104		174					204

Quarter: 4th / 3rd / 2nd / 1st
Computed: D DeYoung
Checked: J. Sullivan
Date: 12-16-77

Quarter: 4th / 3rd / 2nd / 1st
Dis.appld.: D DeYoung
Dis.check: J. Sullivan
Date: 12-16-77

Quarter: 4th / 3rd / 2nd / 1st
G.H.copd.: D. DeYoung
G.H.check: L. Schultz
Date: 11-28-77

Water Year: 1977

SUGAR LOAF RESERVOIR River or Creek near LEADVILLE, COLO.

Daily Gage Height, in Feet, and Discharge in Second-Feet for the Year Ending September 30, 1977

Drainage area ________ square miles. Water stage recorder ________

Max. Discharge 285 Sec. ft. at 600 hrs on MAY 10 G. H. 1.75 ft.

Max. G. H. 285 ft. at 600 hrs on MAY 10 Min. Daily Discharge 4.3 sec.-ft. on NOV. 30 1976

Estimated discharge for "a" and "b" days

S - subsidized days, V - variable shift

Day	OCT. Gage height	OCT. Discharge	NOV. Gage height	NOV. Discharge	DEC. Gage height	DEC. Discharge	JAN. Gage height	JAN. Discharge	FEB. Gage height	FEB. Discharge	MAR. Gage height	MAR. Discharge
1	1.53	+.11 243	1.57	+.04 233	0.30	+.01 4.3	0.33	+.01 5.3	0.36	-.01 5.7	a	
2	1.52	240	1.60	+.03 240	229 .32	+.01 4.9	.33	5.3	.36	5.7	1.09	+.02
3	1.52	240	1.60	240	.36	+.02 7.0	.33	5.3	.36	5.7	1.09	
4	1.52	240	227 1.60	+.03 240	.37	7.5	.33	+.01 5.3	.36	5.7	1.09	+.02 9
5	1.53	243	1.60	240	.37	7.5	a	5.3	.36	5.7	a	
6	226 1.53	+.11 243	1.60	240	.37	7.5	231 a	5.7	.35	5.3		9
7	1.53	243	1.60	240	.37	7.5	.36	-.01 5.7	.35	5.3		9
8	1.53	243	1.60	240	.37	7.5	.36	5.7	.35	5.3		9
9	1.53	243	1.60	240	.37	+.02 7.5	.36	5.7	.35	5.3	234 a	9
10	1.53	+.11 243	1.60	240	.36	+.03 7.5	.36	5.7	.35	5.3	1.02	+.02
11	1.54	+.10 243	1.60	240	.35	7.0	.36	5.7	.35	5.3	1.02	8
12	1.54	243	1.60	240	.35	7.0	.36	5.7	.35	5.3	1.02	
13	1.54	243	1.60	240	.35	7.0	.36	5.7	.35	5.3	1.02	
14	1.54	+.10 243	1.60	240	.35	7.0	.36	5.7	.35	5.3	1.02	8
15	1.55	+.09 243	1.60	240	230 .35	+.03 7.0	.36	5.7	.35	5.3	1.07	
16	1.55	243	1.60	240	.35	7.0	.36	5.7	.35	5.3	1.03	8
17	1.55	243	228 1.61	+.03 243	.34	+.03 6.5	.36	5.7	.35	5.3	.98	
18	1.55	243	1.62	247	.32	+.02 5.3	.36	5.7	.35	-.01 5.3	.98	
19	1.55	+.09 243	1.62	247	.32	+.02 5.3	.36	5.7	S	V 13	.98	
20	1.56	+.08 243	1.62	247	.33	+.01 5.3	.36	5.7	.57	-.02 17	.98	+.02
21	1.56	243	1.62	247	.33	5.3	.36	5.7	.57	17	S	V
22	1.56	243	1.62	247	.33	5.3	.36	5.7	S	30	.62	-.02
23	1.56	243	1.62	247	.33	5.3	.36	5.7	.83	44	235 .62	-.02
24	1.56	243	1.62	247	.33	5.3	232 .36	-.01 5.7	233 .86	-.02 48	S	V
25	1.55	240	1.62	247	.33	5.3	.36	5.7	.87	-.02 50	1.04	+.02
26	1.55	+.08 240	1.62	+.03 247	.33	5.3	.36	5.7	a	50	1.04	8
27	1.48	+.07 212	a	247	.33	5.3	.36	5.7		50	1.04	
28	1.46	+.06 203		247	.33	5.3	.36	5.7	a	50	1.04	+.02 8
29	1.45	199		86	.33	5.3	.36	5.7	XX	XXX	S	V
30	1.45	199	a	4.3	.33	5.3	.36	5.7	XX	XXX	.67	-.02
31	1.45	+.06 199	XX	XXX	.33	+.01 5.3	.36	-.01 5.7	XX	XXX	.67	-.02

Calendar Year 1976		OCT.	NOV.	DEC.	JAN.	FEB.	MAR.
34316.9	Total	7315	6883.3	191.4	174.7	466.4	2[illegible]
93.8	Mean	236	229	6.2	5.6	16.7	75.[illegible]
[illegible]	Run-off in acre-feet	14484	13652	379	346	925	46[illegible]
	Maximum	243	247	7.5	5.7	50	95

DIVISION OF WATER RESOURCES
OFFICE OF STATE ENGINEER

Sta. No. _____

Rating Table Used _____

Day	APR. Gage height	APR. Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUG. Gage height	AUG. Discharge	SEPT. Gage height	SEPT. Discharge
1	0.67	26	1.18	106	1.45	196	1.21	111	5	25	0.43	9.5
2	a	38	1.18	106	1.52	219	1.27	129	.42	9.0	.43	9.5
3			1.18	106	1.53	222	1.27	129	.42	9.0	.43	9.5
4		62	1.18	106	1.53	222	1.27	129	.42	9.0	.43	9.5
5	a	711	1.22	115	1.53	222	1.28	132	.43	9.5	.43	9.5
6	.98	74	1.23	117	1.53	222	1.34	152	.43	9.5	.43	9.5
7	.98	74	1.23	117	1.54	226	1.34	152	.43	9.5	.43	9.5
8	1.00	78	1.23	117	1.54	226	1.33	150	.43	9.5	.43	9.5
9	1.01	80	1.57	216	1.59	243	1.33	150	.43	9.5	.43	9.5
10	1.01	80	1.70	245	1.49	203	1.33	150	.43	9.5	.43	9.5
11	1.01	80	1.48	190	1.29	137	1.28	137	.43	9.5	.43	9.5
12	1.06	87	1.42	172	1.08	85	1.26	132	.43	9.5	.43	9.5
13	1.09	93	1.42	172	1.03	74	1.26	132	.43	9.5	.43	9.5
14	1.09	93	1.36	155	1.03	74	1.26	132	.43	9.5	.43	9.5
15	1.09	93	1.39	163	.97	62	1.23	125	.43	9.5	.43	9.5
16	1.09	93	1.40	166	.94	57	1.18	113	.43	9.5	.43	9.5
17	1.09	93	1.35	152	1.08	82	1.18	113	.43	9.5	.43	9.5
18	1.02	78	1.29	137	1.22	111	1.20	117	.43	9.5	.43	9.5
19	.99	72	1.21	117	1.22	111	1.22	122	.43	9.5	.43	9.5
20	1.03	80	1.21	117	1.10	84	1.23	125	.43	9.5	.43	9.5
21	1.08	87	1.22	120	1.02	69	1.24	127	.43	9.5	.43	9.5
22	1.10	91	1.22	120	1.05	74	1.27	134	.48	12	.43	9.5
23	1.10	91	1.22	120	1.07	78	1.28	137	.43	9.5	.43	9.5
24	1.10	91	1.22	120	1.09	82	1.28	137	.42	9.0	.43	9.5
25	1.10	91	1.25	129	1.10	84	1.32	150	.42	9.0	.43	9.5
26	1.10	91	1.27	137	1.10	84	1.18	115	.43	9.5	.43	9.5
27	1.10	91	1.27	137	1.10	84	1.00	78	.43	9.5	.43	9.5
28	1.13	97	1.27	137	1.10	84	.86	54	.43	9.5	.43	9.5
29	1.17	104	1.25	132	1.10	84	.83	50	.43	9.5	.43	9.5
30	1.18	106	1.24	129	1.10	84	.83	50	.43	9.5	.43	9.5
31	XX	XXX	1.32	152	XX	XXX	.83	50	.43	9.5	XX	XXX
	2439		43145		3885		3714		310		295	
	81		140		130		120		10		9.5	
					7692		7354		614		564	
			265		24		152		25		9.5	

Water Year 1977

4th / 3rd / 2nd / 1st / Quarter — Computed / Checked / Date

4th / 3rd / 2nd / 1st / Quarter — Dis.appld. / Dis.check / Date

4th / 3rd / 2nd / 1st / Quarter — G.H.copd. / G.H.check / Date

LAKE CREEK above Creek near TWIN LAKES RESERVOIR, COLO

Daily Gage Height, in Feet, and Discharge in Second-Feet for the Year Ending September 30, 1977

Drainage area 75 square miles. Water stage recorder STEVENS A-35 CONTINUOUS

Max. Discharge 1230 Sec. ft. at 100 hrs on June 9 G. H. 4.03 ft.

Max. G. H. 4.03 ft. at 100 hrs on June 9 Min. Daily Discharge 6 sec.-ft. on many days

Day	OCT. Gage height	OCT. Discharge	NOV. Gage height	NOV. Discharge	DEC. Gage height	DEC. Discharge	JAN. Gage height	JAN. Discharge	FEB. Gage height	FEB. Discharge	MAR. Gage height	MAR. Discharge
1	1.65	42	a	22	a	15	a	12	a	8	a	
2	1.65	42		22		15		12		8		
3	1.67	44		22		15		12		8		
4	1.67	44	a	20		15		12		8		
5	1.64	42	1.35 b	20		15		12		7		
6	1.64	42	1.32	21		15		12		7		
7	1.59	37	1.34	20		13		12		7		
8	1.62	40	1.31	19		13		12		7		
9	1.64	42	1.29	19		13		12		7		
10	1.63	40	1.32	21		13		12		7		
11	1.61	39	1.32 b	19		13		11		7		
12	1.58	37	a	16		13		11		7		
13	1.57	36		19		13		11		7		
14	1.55	35		18		13		11		7		
15	1.53	34		21		13		10		7		
16	1.51	33		21		13		10		7		
17	1.50	32		21		13		10		7		
18	1.48 b	30		20		13		10		7		
19	1.39	29		16		13		10		7		
20	1.40	27		16		13		9		7		
21	1.42	28		17		13		9		7		
22	1.43	29		19		13		9		7		
23	1.42	28		19		13		9		7		
24	1.37	25		16		13		9		7		
25	1.39	25		15		13		9		7		
26	1.42	25		15		13		9		7		
27	1.42 b	25		15		12		9		7		
28	a	26		15		12		9	a	7		
29		26		15		12		9	a	XXX		
30		25	a	15		12		9	XX	XXX		
31	a	25	XX	XXX	a	12	a	8	XX	XXX	a	

Calendar Year 1976		OCT.	NOV.	DEC.	JAN.	FEB.	MAR.
5038?	Total	1034	554	410	321	200	186
137.3	Mean	33.4	18.5	13.2	10.4	7.1	6
[illegible]	Run-off in acre-feet	2,0??	1097	[illegible]	638	[illegible]	[illegible]
	Maximum	44	22	15	12	8	6
	Minimum	25	15	12	[illegible]	[illegible]	[illegible]

STATE OF COLORADO
DIVISION OF WATER RESOURCES
OFFICE OF STATE ENGINEER

Sta. No. 07084500
Rating Table Used

APR.		MAY		JUNE		JULY		AUG.		SEPT.		Day.
Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	
	7	2.14	113	3.33	743	2.24	126	1.91	65	1.57	34	1
	8	2.16	118	3.29	712	2.07	91	1.88	62	1.63	39	2
	8	2.30	147	3.21	638	2.03	85	1.86	59	1.65	40	3
	8	2.35	159	3.24	667	2.09	95	1.85	58	1.64	40	4
	8	5	145	3.35	759	2.14	101	1.88	62	1.66	42	5
	9	2.52	207	3.36	767	2.04	86	1.83	55	1.62	38	6
	10	5	238	3.35	759	2.03	85	1.80	52	1.60	36	7
	10	2.89	348	3.72	1148	1.97	75	1.79	51	1.58	34	8
	10	2.80	309	3.74	1170	1.93	68	1.77	49	1.58	34	9
	10	5	322	3.37	751	1.91	65	1.62	34	1.57	34	10
	10	2.99	396	3.15	556	1.78	50	1.58	30	1.62	37	11
	11	2.70	269	2.99	427	1.78	50	1.57	30	1.69	45	12
	11	2.72	277	3.06	489	1.78	50	1.55	28	1.67	43	13
	11	2.78	301	3.04	477	1.76	48	1.56	29	1.64	40	14
	13	2.52	207	2.95	417	1.75	46	1.57	30	1.64	40	15
	15	2.33	154	2.84	353	1.74	45	1.68	40	1.64	40	16
	17	2.30	147	2.83	348	1.73	44	1.68	40	1.62	40	17
	17	2.33	154	2.79	321	1.72	43	1.81	53	1.59	37	18
	17	2.31	149	2.73	297	1.74	45	1.77	52	1.58	36	19
	17	2.17	111	2.64	254	1.94	71	1.88	68	1.58	36	20
1.26	18	2.15	108	2.59	233	2.01	81	1.89	70	1.56	35	21
1.30	20	2.20	118	2.41	170	2.21	120	1.90	71	1.55	34	22
1.37	25	2.38	170	2.39	156	2.32	144	1.87	69	1.57	36	23
1.47	31	2.67	285	2.36	154	2.27	133	a	67	1.56	35	24
1.55	37	2.68	289	2.37	156	2.21	118	a	64	1.54	34	25
1.63	44	2.52	220	2.39	162	2.17	110	1.82	60	1.52	31	26
1.61	42	2.47	201	2.39	162	2.11	102	1.83	62	1.52	31	27
1.79	62	2.43	186	2.38	159	2.09	113	1.81	57	1.50	29	28
1.71	80	2.44	191	2.36	154	2.03	102	1.77	51	1.49	28	29
1.90	94	2.86	324	2.33	147	1.98	77	1.74	51	1.48	28	30
XX	XXX	3.18	417	XX	XXX	1.94	71	1.59	35	XX	XXX	31
668		7095		13716		2539		1614		1088		29425
22.3		229		457		82		52		36		80.6
1323		14078		27198		5036		3202		2159		58361
		417		1170		111		71		47		1170

4th Quarter: Computed, Checked, Date
3rd Quarter: Dis.appld., Dis.check, Date
2nd Quarter: G.H.copd., G.H.check, Date
1st Quarter
Water Year 1977

LAKE CREEK below TWIN LAKES RES near GRANITE, COLO.

Daily Gage Height, in Feet, and Discharge in Second-Feet for the Year Ending September 30, 1977

Drainage area ________ square miles. Water stage recorder STEVENS "E" WEEKLY

Max. Discharge 439 Sec. ft. at All day on June 16-17 G.H. 2.61 ft.

Max. G.H. 2.61 ft. at All day on June 16-17 Min. Daily Discharge .18 sec.-ft. on many days

Discharge [illegible] For "E" [illegible]

S[illegible] [illegible]

Day	OCT. Gage height	OCT. Discharge	NOV. Gage height	NOV. Discharge	DEC. Gage height	DEC. Discharge	JAN. Gage height	JAN. Discharge	FEB. Gage height	FEB. Discharge	MAR. Gage height	MAR. Discharge
1	0.76	57	0.51	29	a	0.35	a	0.18	a	0.18	a	
2	.75	56	.46	24		.35		.18		.18		
3	.75	56	.46	24		.35		.18		.18		
4	.67	46	a	24		.35		.18		.18		
5	.60	38	.46	24		.35		.18		.18		
6	.60	38	.45	23		.35		.18		.18		
7	.60	38	.45	23		.35		.18		.18		
8	.60	38	.45	23		.35		.18		.18		
9	.60	38	.45	23		.35		.18		.55	18 21	.04 5.6
10	.59	37	.45	23		.35		.18		6.1		
11	.59	37	.45	23		.35		.18		6.1		
12	a	37	.45	23		.35		.18		6.1		
13		37	.44	22		.35		.18		6.1		
14	a	38	S	14		.35		.18		6.1		
15	.60	38	.10	.78		.35		.18		6.1		
16	.60	38	.10	.78		.35		.18		6.1		
17	.60	38	.10	.78		.35		.18		6.1		
18	.61	40	.10	.78		.35		.18		6.1		
19	.61	40	.10	.78		.35		.18		6.1		
20	.61	40	.10	.78		.35		.18		6.1		
21	.61	40	.10	.78		.35		.18		6.1		
22	.60	38	.10	.78		.35		.18		6.1		
23	.60	38	.09	.55		.35		.18		6.1		
24	.59	37	a	.55		.35		.18		6.1		
25	.58	36		.55		.35		.18		6.1		
26	.57	35		.55		.35		.18		6.1		
27	.56	34		.55		.35		.18		6.1		
28	.56	34		.35		.35		.18	a	6.1		
29	.56	34		.35		.35		.18		6.1		
30	.56	34	a	.35		.35		.18	XX	XXX		
31	.56	34	XX	XXX	a	.35	a	.18	XX	XXX	a	

Calendar Year 1976		OCT.	NOV.	DEC.	JAN.	FEB.	MAR.
51731	Total	1181	332.04	10.85	5.58	123.99	17[illegible]
163	Mean	38.1	11.1	.35	.18	4.4	5.7
11[illegible]	Run-off in acre-feet	2339	657	21.5	11.05	[illegible]	351
	Maximum	57	29	.35	.18	6.1	6.

STATE OF COLORADO
DIVISION OF WATER RESOURCES
OFFICE OF STATE ENGINEER

Sta. No. _____
Rating Table Used _____

Day.	APR. Gage height	APR. Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUG. Gage height	AUG. Discharge	SEPT. Gage height	SEPT. Discharge
1	4.6	a	40	a	93	0.71	49	0.87	70	0.63	42
2	4.6		65	[21] a	108	.71	49	.97	84	.80	62
3	4.6		65	1.21	123	.71	49	.97	84	.80	62
4	4.6		65	1.22	125	.71	49	.88	72	.80	62
5	4.6		65	1.23	127	.60	37	.82	64	.80	62
6	4.6		65	a	127	.42	20	.82	64	.80	62
7	4.6		65		130	.42	20	.82	64	.80	62
8	4.6		65		132	.42	20	.82	64	.80	62
9	4.6		93		132	.42	20	.82	64	.80	62
10	4.6		93		228	.42	20	.82	64	.80	62
11	4.6		93		303	.41	19	.81	62	.80	62
12	4.6		93		303	.41	19	.81	62	.81	64
13	4.6		93		303	.41	19	.81	62	.82	65
14	4.6		42		303	.41	19	.81	62	.82	65
15	4.6		42		405	.41	19	.81	62	.82	65
16	4.6		42		439	.41	19	.81	62	.82	65
17	18		42		439	.42	20	.81	62	.82	65
18	18		42		426	.42	20	.81	62	.82	65
19	18	[20]	30		426	.42	20	.81	62	.82	65
20	[19] 18.0	.40	20		426	.42	20	.81	62	.82	65
21	18	.40	20	a	251	.42	20	.81	62	.82	65
22	18	.40	20	1.65	203	.42	20	.81	62	[25] .82	65
23	18	.76	38	S	136	.42	20	.95	81	.82	65
24	18	.88	74	1.00	89	.42	20	1.22	123	.82	65
25	110	a	74	1.00	89	S	38	[24] 1.18	117	.80	62
26	110		74	1.00	89	1.27	130	.96	83	.80	62
27	90		93	1.00	89	[23] 1.27	130	.95	81	.79	61
28	90		93	1.00	89	1.24	125	.95	81	.78	60
29	90		93	[22] a	89	1.11	106	.95	81	.78	60
30	90		93	.85	68	1.11	106	.95	81	.78	60
31	XX	XXX	a	93	XX	XXX	1.11	106	S	44	XX	XXX
	477.6		2006		9452		1348		2210		1871	
	15.3		64.7		315		43.5		71.3		62.4	
	1106		3970		18715		2669		4376		3705	
	110		93		439		130		123		65	

Day.	4th	3rd	2nd	1st	Quarter	Computed	Checked	Date
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								

Quarter	Dis.appld.	Dis.check	Date
4th			
3rd			
2nd			
1st			

Quarter	G.H.copd.	G.H.check	Date
4th			
3rd			
2nd			
1st			

Water Year 19 77

ARKANSAS Creek near GRANITE, COLO.

Daily Gage Height, in Feet, and Discharge in Second-Feet for the Year Ending September 30, 1977

Drainage area 427 square miles. Water stage recorder STEVENS A-35 CONTINUO[US]

Max. Discharge 1090 Sec. ft. at 2200 on June 9 G. H. 3.78 ft.

Max. G. H. 3.78 ft. at 2200 on June 9 Min. Daily Discharge 40 sec.-ft. on many

Discharge estimated for "a" and "b" days

"U" [illegible] shift

[illegible] days

Day	OCT. Gage height	OCT. Discharge	NOV. Gage height	NOV. Discharge	DEC. Gage height	DEC. Discharge	JAN. Gage height	JAN. Discharge	FEB. Gage height	FEB. Discharge	MAR. Gage height	MAR. Discharge
1	2.91	.03 380	2.80	+.01 345	2.12	b 75	2.74	b 40	2.49	b 40	a	[illegible]
2	2.90	375	2.87	.03 390	255 2.09	70	2.81	40	2.52	40		[illegible]
3	2.90	375	2.88	396	2.07	70	2.80	40	2.41	40		[illegible]
4	2.90	.03 375	253 2.87	+.03 390	2.08	70	2.81	40	2.37	40		[illegible]
5	2.89	.04 365	2.87	390	2.08	60	2.77	40	2.39	40		[illegible]
6	251 2.89	.04 365	2.86	385	2.15	60	257 2.91	40	2.37	40		[illegible]
7	2.88	360	2.86	385	2.13	50	2.90	40	259 2.33	40		[illegible]
8	2.88	360	2.86	+.03 385	2.08	50	2.88	40	2.35	b 40		[illegible]
9	2.88	360	2.85	+.02 375	2.11	50	2.97	40	a	40	261 a	[illegible]
10	2.88	360	2.83	+.01 360	2.13	50	2.82	40		40	3.47	b [illegible]
11	2.88	360	2.83	360	2.22	50	2.70	40		45	3.39	[illegible]
12	2.88	360	2.83	360	2.17	50	2.72	40		40	3.53	[illegible]
13	2.88	.04 360	2.83	360	2.28	50	2.68	40		40	3.47	[illegible]
14	2.87	.03 360	2.84	+.01 365	2.21	50	2.69	40		40	3.39	[illegible]
15	2.87	360	2.79	.01 330	256 2.21	50	2.63	40		40	3.38	[illegible]
16	2.86	355	2.78	325	2.20	50	2.66	40		40	3.43	[illegible]
17	2.86	355	254 2.77	.01 320	2.20	50	2.65	40		40	3.17	[illegible]
18	2.86	.03 355	2.79	330	2.20	50	2.66	40		40	3.10	[illegible]
19	2.84	.02 350	2.79	330	2.21	50	2.60	40		45	3.36	[illegible]
20	252 2.83	.02 345	2.78	325	2.35	50	2.48	40		50	3.35	b
21	2.83	345	2.77	320	2.35	50	2.43	40		50	a	[illegible]
22	2.83	345	2.77	320	2.33	45	2.50	40		65		[illegible]
23	2.83	345	2.76	315	2.34	45	2.48	40		75	262 a	[illegible]
24	2.83	345	2.75	310	2.51	45	258 2.35	40	260	85	2.12	b
25	2.83	345	2.76	315	2.30	45	2.33	40		85	2.19	
26	2.84	350	2.77	320	2.91	45	2.36	40		[illegible]	2.19	
27	2.82	.02 340	2.73	300	2.85	[illegible]	2.48	40		[illegible]	2.22	
28	2.76	a 320	2.72	.01 295	2.70	[illegible]	2.55	40	a	[illegible]	2.23	
29	2.76	320	5	V 205	2.76	[illegible]	2.52	40	XX		2.29	
30	2.77	325	2.11	b 75	2.75	45	2.45	40	XX	XXX	2.14	
31	2.76	o 320	XX	XXX	2.83	b 40	2.41	b 40	XX	XXX	2.06	b

Calendar Year 1976

		OCT.	NOV.	DEC.	JAN.	FEB.	MAR.
145683	Total	10935	9981	1600	1240	1433	3[illegible]
[illegible]	Mean	353	333	52	40	51	109
[illegible]	Run-off in acre-feet	21651	19712	3168	2455	2837	63[illegible]
	Maximum	380	396	75	40	[illegible]	12[illegible]

STATE OF COLORADO

DIVISION OF WATER RESOURCES
OFFICE OF STATE ENGINEER

Sta. No. 07086000

Rating Table Used

Day	APR. Gage height	APR. Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUG. Gage height	AUG. Discharge	SEPT. Gage height	SEPT. Discharge
1	1.96	b 86	2.71	° 295	[25.2] 3.22	04 566	2.54	° 232	2.39	° 187	2.15	03 120
2	1.95	b 86	2.72	300	3.31	636	2.60	250	2.36	179	2.22	04 134
3	2.04	b 90	2.77	325	3.29	620	2.61	254	2.33	170	2.23	136
4	2.05	b 90	2.76	320	3.33	652	2.63	262	2.31	165	2.28	148
5	1.98	02 92	[26.2] 2.73	° 305	3.33	652	2.65	270	2.28	157	2.25	140
6	2.06	105	2.78	° 330	3.37	687	2.62	258	2.28	157	2.22	134
7	[26] 2.23	02 140	2.82	+ 01 355	3.40	714	2.63	° 262	2.25	150	2.21	131
8	2.32	01 165	2.92	+ 02 414	3.50	804	2.58	01 241	2.25	150	[27.1] 2.20	04 129
9	2.38	° 184	3.12	03 515	3.67	957	2.57	238	2.25	150	2.19	127
10	2.43	+ 01 202	3.32	+ 01 273	3.69	01 975	2.56	235	2.25	150	2.18	125
11	2.48	+ 02 220	3.12	559	3.52	05 813	2.53	01 226	2.24	148	2.21	131
12	2.43	205	3.04	504	3.39	06 687	2.47	02 205	2.23	145	2.24	136
13	2.42	202	3.07	524	3.33	636	2.49	211	2.26	152	2.23	136
14	2.40	02 176	3.04	504	3.41	705	2.49	211	2.26	152	2.21	131
15	2.44	+ 01 211	2.82	375	[26.8] 3.48	06 768	[27.0] 2.48	02 208	2.27	155	2.23	136
16	2.44	211	2.75	340	3.43	723	2.42	190	2.33	170	2.22	134
17	2.46	+ 01 217	2.68	305	3.42	714	2.40	184	2.33	170	2.21	131
18	2.50	+ 01 232	2.62	278	3.47	01 759	2.42	190	2.33	170	2.21	131
19	2.49	229	[26.1] 2.55	+ 05 350	3.45	05 750	2.44	196	2.33	170	2.20	129
20	[25.9] 2.43	+ 01 211	2.52	241	3.23	01 588	2.47	205	2.32	168	2.20	129
21	2.39	199	2.51	238	2.98	01 432	2.50	214	2.31	162	2.19	127
22	2.43	+ 01 211	2.48	229	2.97	01 426	2.55	02 229	2.32	165	[27.4] 2.22	04 134
23	2.47	+ 01 220	2.50	+ 05 235	2.82	° 350	2.72	01 295	2.33	168	2.19	127
24	2.47	220	2.62	+ 03 270	2.73	+ 01 315	2.82	° 350	2.47	211	2.18	125
25	2.49	+ 01 226	2.73	+ 01 315	2.73	315	2.83	355	[27.5] 2.46	° 202	2.18	125
26	2.56	+ 01 244	2.78	+ 01 335	2.73	315	2.98	438	2.33	01 168	2.17	122
27	2.59	256	2.82	355	2.72	305	[27.1] 2.85	° 365	2.33	168	2.17	122
28	2.62	266	2.83	360	[26.4] 2.70	+ 01 295	2.72	302	2.33	168	2.17	122
29	2.60	258	2.83	+ 01 360	2.67	01 289	2.58	244	2.32	165	2.17	122
30	2.62	03 266	2.88	° 380	2.58	° 249	2.55	235	2.31	01 162	2.18	04 125
31	XX	XXX	3.05	02 468	XX	XXX	2.53	° 229	2.10	03 123	XX	XXX
	5736		11337		17670		7802		5093		3905	
	191		366		589		252		164		130	
	11357		22447		34787		15448		10064		7732	
	368		723		975		438		203		148	
	95		229		241		104		123		125	

Quarter	4th	3rd	2nd	1st
Computed				
Checked				
Date				

Quarter	4th	3rd	2nd	1st
Dis.appld.				
Dis.check				
Date				

Quarter	4th	3rd	2nd	1st
G.H.copd.				
G.H.check				
Date				

Water Year 1977

CLEAR CREEK above Creek near CLEAR CREEK,

Daily Gage Height, in Feet, and Discharge in Second-Feet for the Year Ending September 30, 19 77

Drainage area 67.1 square miles. Water stage recorder STEVENS A-35 CONTINUOUS

Max. Discharge 229 Sec. ft. at 1200 AM on JULY 10 G. H. 1.93 ft.
Max. G. H. 1.93 ft. at on Min. Daily Discharge 1.0 sec.-ft. on

Day.	OCT. Gage height	OCT. Discharge	NOV. Gage height	NOV. Discharge	DEC. Gage height	DEC. Discharge	JAN. Gage height	JAN. Discharge	FEB. Gage height	FEB. Discharge	MAR. Gage height	MAR. Discharge
1	1.13	.10 41	0.97	.08 24	a	14	a	10	a	10	a	
2	1.13	41	.97	24	476	14		10		10		
3	1.13	41	.97	.08 24		14		10		10		
4	1.14	42	468 .94	.07 22		14		10		10		
5	1.13	41	.95	23		14		10		10		
6	1.13	.10 41	.96	24		14	472	10		10		
7	1.13	41	.94	22		13		10	474	10		
8	1.13	41	.93	21		13		10		10		
9	1.13	41	.93	21		13		10		10	476	
10	1.12	.10 40	.98	26		13		10		10		
11	1.10	.09 38	.94	22		13		10				
12	1.09	37	.90	.07 17		13		10				
13	1.08	36	1.01	b 22		13		10		9		
14	1.07	35	1.01	20		13		10		9		
15	1.07	35	1.02	22	421	13		10		9		
16	1.06	33	1.02	22		13		10		8		
17	1.06	33	469 1.04	22		13		10		8		
18	1.06	33	.99	21		13		10		8		
19	1.05	32	.96	17		13		10		7		
20	462 1.04	.09 31	.98	17		13		10		8		
21	1.06	33	.98	18		13		10		7		
22	1.05	32	1.01	21		13		10		7.0		
23	1.04	31	1.01	21		13		10		7.0	477	
24	1.03	30	1.00	17		13	473	10	475	7.0		
25	1.02	29	.96	b 14		13		10		7.0		
26	1.02	29	a	14		13		10		7.0		
27	1.02	.09 29		14		12		10		7.0		
28	1.08	b 30		14		11		10	a	7.0		
29	1.10	b 30		14		10		10	XX	XXX		
30	1.02	.09 29	a	14		10		10	XX	XXX		
31	1.01	.09 27	XX	XXX	a	10	a	10	XX	XXX	a	
Total		1082		594		397		310		241		200
Mean		34.9		19.8		13.8		10		8.60		6.45
Run-off in acre-feet		2140		1180		787		615		478		397
Maximum		42		26		14		10.0		10.0		

Calendar Year 1975

21,615 54.1

STATE OF COLORADO

DIVISION OF WATER RESOURCES
OFFICE OF STATE ENGINEER

Sta. No. 07086500

Rating Table Used

Day.	APR. Gage height	APR. Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUG. Gage height	AUG. Discharge	SEPT. Gage height	SEPT. Discharge
1	a		1.13	49	1.55	127	1.07	35	1.08	42	0.99	31
2			1.03	36	1.50	117	1.04	31	1.06	40	.98	30
3			1.07	41	1.46	110	1.03	30	1.04	37	.98	30
4			1.09	44	1.51	119	1.03	30	1.04	37	.98	30
5			1.03	36	1.58	133	1.13	45	1.06	40	.99	31
6		9.0	1.08	42	1.61	139	1.10	41	1.02	35	1.00	32
7		9.0	1.26	68	1.61	139	1.07	37	1.00	31	.98	30
8		9.0	1.34	82	1.73	165	1.03	33	1.00	31	.96	27
9		9.0	1.40	93	1.77	174	1.01	31	.99	30	.95	26
10		9.0	1.36	84	1.68	154	1.00	30	.97	27	.94	25
11		9.0	1.22	60	1.51	119	.98	27	.97	27	.99	31
12			1.17	52	1.42	102	.97	26	.95	25	1.04	37
13			1.18	53	1.41	100	.97	26	.95	25	1.02	33
14			1.23	60	1.38	96	.98	27	.96	26	.99	30
15			1.12	45	1.36	91	.98	27	.97	27	.98	28
16			1.07	37	1.33	86	.97	26	1.07	40	.98	28
17			1.03	32	1.31	82	.96	25	1.08	41	.98	28
18			1.00	28	1.28	75	.95	24	1.16	52	.98	28
19			.98	26	1.23	65	.96	25	1.14	49	.98	28
20			.98	26	1.18	56	1.02	32	1.08	41	.98	28
21			.93	21	1.16	52	1.05	36	1.07	40	.96	26
22			.94	22	1.15	49	1.15	50	1.07	40	.95	25
23			.97	25	1.13	44	1.33	79	1.03	35	.95	25
24			1.13	46	1.12	42	1.46	104	1.03	35	.94	24
25			1.09	41	1.13	44	1.34	82	1.07	40	.93	24
26	a		1.12	45	1.14	45	1.28	72	1.03	35	.92	23
27	.97		1.07	38	1.14	45	1.21	66	1.06	38	.92	23
28	.95		1.02	32	1.12	42	1.18	58	1.05	37	.91	22
29	.92		1.01	31	1.10	39	1.16	53	1.03	35	.91	22
30	.96	27	1.13	47	1.08	36	1.13	49	1.01	33	.91	22
31	XX	XXX	1.41	93	XX	XXX	1.10	45	1.00	32	XX	XXX
	400		1442		2696		1294		1103		827	
	13.3		46.5		89.5		41.7		35.6		27.6	
	29		98		174		104		42		37	

Quarter: 4th | 3rd | 2nd | 1st — Computed | Checked | Date

Quarter: 4th | 3rd | 2nd | 1st — Dis.appld. | Dis.check | Date

Quarter: 4th | 3rd | 2nd | 1st — G.H.copd. | G.H.check | Date

Water Year

CLEAR CREEK below CLEAR Creek near RESERVOIR near GRANITE, CO

Daily Gage Height, in Feet, and Discharge in Second-Feet for the Year Ending September 30, 1977

Drainage area _____ square miles. Water stage recorder STEVENS "E" RECORDER

Max. Discharge 210 Sec. ft. at 1200 on June 8 G. H. 2.76 ft.
Max. G. H. _____ ft. at 1200 on June 8 Min. Daily Discharge _____ sec.-ft. on _____
Discharge for "a" and "b" days

Day.	OCT. Gage height	OCT. Discharge	NOV. Gage height	NOV. Discharge	DEC. Gage height	DEC. Discharge	JAN. Gage height	JAN. Discharge	FEB. Gage height	FEB. Discharge	MAR. Gage height	MAR. Discharge
1	1.34	14	a	24	a	8.0	a	1.1	a	1.1	a	16
2	1.34	14		24		8.0		1.1		1.1		16
3	1.34	14		24		8.0		1.1		1.1		16
4	1.34	14		20		8.0		1.1		1.1		16
5	1.34	14		20		8.0		1.1		1.1		16
6	1.50	29		20		7.0		1.1		1.1		16
7	1.56	34		20		7.0		1.1		1.1		16
8	1.56	34		20		7.0		1.1		1.1		16
9	1.56	34		20		7.0		1.1		8.0	52	16
10	1.56	34		20		7.0		1.1		8.0		16
11	1.56	34		17		7.0		1.1		8.0		16
12	1.55	33		17		7.0		1.1		8.0		16
13	1.55	33		17		7.0		1.1		8.0		16
14	a	33		17		7.0		1.1		8.0		16
15	1.55	33		7.4	51	1.1		1.1		8.0		16
16	1.55	33		7.4		1.1		1.1		8.0		16
17	1.55	33	50	7.4		1.1		1.1		8.0		16
18	a	31		7.4		1.1		1.1		7.0		16
19	1.50	30		7.4		1.1		1.1		7.0		16
20	1.50	30		7.4		1.1		1.1		7.0		16
21	1.49	29		7.4		1.1		1.1		7.0		16
22	a	9.5		8.0		1.1		1.1		7.0		16
23		9.5		8.0		1.1		1.1		7.0		16
24		9.5		8.0		1.1		1.1		7.0		16
25		9.5		8.0		1.1		1.1		7.0		16
26		9.5		8.0		1.1		1.1		7.0		16
27		20		8.0		1.1		1.1		16		16
28		30		8.0		1.1		1.1		16		16
29		30		8.0		1.1		1.1	a	16		16
30		30	a	8.0		1.1		1.1	XX	XXX		16
31	a	30	XX	XXX	a	1.1	a	1.1	XX	XXX	a	16
Total		774.5		404		121		34		192		496
Mean		25		13.5		3.9		1.1		6.9		16
Run-off in acre-feet		1536		802		240		67		380		984
Maximum		34		24		8.0		1.1		16		16

Calendar Year

DIVISION OF WATER RESOURCES
OFFICE OF STATE ENGINEER

Sta. No. _____

Rating Table Used _____

Day.	APR. Gage height	APR. Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUG. Gage height	AUG. Discharge	SEPT. Gage height	SEPT. Discharge
1	a	14	a	15	a	60	1.48	+03 26	a	75	a	0
2		14		15	[55] a	69	1.52	30		100		0
3		14		15	1.88	+03 68	1.52	30		143	a	20
4		14		15	1.81	60	1.37	17		143	1.62	+04 40
5		14		15	1.78	56	1.40	19		143	1.62	40
6		15	[54]	(15) 15	1.96	79	1.60	39		143	S	35
7	[53]	(14) 15		15	S	181	a	38		143	1.69	47
8		15		15	2.75	212	1.62	39		143	[58] 1.80	+04 60
9		15		20	a	180	1.62	39		143	1.70	48
10		15	a	30	2.24	121	1.62	39		170	1.58	+04 36
11		15	1.62	+04 40	2.18	112	1.62	39	a	120	a	36
12		15	1.53	31	1.95	77	1.52	+03 30	1.90	+04 72		36
13		15	1.53	31	1.85	65	a	30	1.90	72		36
14		15	1.53	31	1.77	55		30	1.89	71		36
15		15	1.53	31	1.89	70		30	1.77	56		43
16		15	1.53	31	2.05	92		20	1.71	50		43
17		15	a	30	2.04	90		20	a	50		43
18		15		20	1.92	74		20	a	56		43
19		15	a	15	1.83	62		20	1.82	62		43
20		15	1.28	13	1.77	55		20	1.82	62		36
21		15	1.28	13	1.70	+03 47		25	1.82	62		36
22		15	1.27	12	1.65	+04 43		35	1.82	62	[59]	36
23		15	1.27	12	1.65	43		45	1.81	61		36
24		15	1.27	+04 12	1.66	44		55	1.81	61		36
25		15	a	12	1.65	43		65	1.80	60		36
26		15		15	1.65	43		75	1.80	60		36
27		15		20	1.65	43		75	1.80	60		36
28		15		25	1.66	44	[52]	[54] 75	1.80	60		117
29		15		30	[56] 1.61	+04 39		75	1.80	60		36
30	a	15		40	1.41	+03 20		75	1.68	116	a	36
31	XX	XXX	a	40	XX	XXX	a	75	S	+04 80	XX	XXX
	455		1.84		2257		1223		2617		1074	10366.5
	15		22		75		40		84		36	
	401		1354		4002		2446		5182		2166	
	14		50		212		75		170		60	170
							17					

Day. | 4th | 3rd | 2nd | 1st | Quarter | Computed | Checked | Date

Day. | 4th | 3rd | 2nd | 1st | Quarter | Dis.appld. | Dis.check | Date

Day. | 4th | 3rd | 2nd | 1st | Quarter | G.H.copd. | G.H.check | Date

Water Year

COTTONWOOD Creek near Mouth at Buena Vista, Colorado

Daily Gage Height, in Feet, and Discharge in Second-Feet for the Year Ending September 30, 19____

Drainage area ______ square miles. Water stage recorder ______

Max. Discharge ______ Sec. ft. at 1700 hrs on November 20 G. H. 2.32 ft.

Max. G. H. 2.32 ft. at 1700 hrs on Nov. 20 Min. Daily Discharge .50 sec.-ft. on March 30

DISCHARGE ESTIMATED FOR "a" and "b" days

"V" [illegible]

"S" SUBMERGED [illegible]

Day	OCT. Gage height	OCT. Discharge	NOV. Gage height	NOV. Discharge	DEC. Gage height	DEC. Discharge	JAN. Gage height	JAN. Discharge	FEB. Gage height	FEB. Discharge	MAR. Gage height	MAR. Discharge
1	1.40	3.1	1.73	20	1.89	28	1.76	20	1.75	o 18	1.73	b [illegible]
2	S	V 5.0	1.74	20	1.90	29	1.74	19	1.75	o 18	1.71	[illegible]
3	1.07	.96	1.75	21	1.92	31	1.76	20	1.71	b 15	1.69	b [illegible]
4	1.06	.91	1.75	21	1.90	29	1.72	b 19	1.73	13	1.71	[illegible]
5	1.06	.91	1.74	20	1.88	27	1.64	18	1.73	13	1.70	[illegible]
6	S	2.26	1.73	20	1.88	27	1.71	17	1.75	13	1.72	b [illegible]
7	1.28	2.91	1.75	21	1.88	27	1.68	b 16	1.72	13	1.73	[illegible]
8	1.30	3.2	1.71	18	1.88	27	1.67	15	1.72	13	1.72	[illegible]
9	S	12	1.72	19	1.88	27	1.66	15	1.72	13	1.72	[illegible]
10	1.74	19.6	1.71	18	1.88	27	1.69	16	1.73	b 13	1.68	[illegible]
11	S	8.4	1.74	20	1.87	b 27	1.73	19	1.72	14	S	[illegible]
12	1.06	.91	1.75	21	1.88	27	1.71	18	1.71	13	S	[illegible]
13	1.04	.81	1.73	20	1.86	26	1.74	20	1.72	14	1.73	[illegible]
14	1.03	.76	1.78	23	1.86	25	1.72	18	1.73	14	1.72	[illegible]
15	S	1.12	1.76	22	1.83	24	1.74	20	1.73	14	S	[illegible]
16	S	4.68	1.75	21	1.85	24	1.75	20	1.73	14	1.72	[illegible]
17	S	4.84	1.83	27	1.85	24	1.76	21	1.73	14	1.69	[illegible]
18	1.42	5.5	1.94	37	1.85	24	1.78	22	1.73	14	1.68	[illegible]
19	S	3.22	1.93	36	1.81	24	1.79	23	1.72	14	S	[illegible]
20	1.07	.96	1.92	35	1.77	21	1.78	22	1.73	14	1.69	[illegible]
21	S	V 7.85	1.90	33	1.77	21	1.78	22	1.73	14	S	[illegible]
22	1.68	16	1.90	33	1.77	21	1.78	22	1.74	15	1.70	[illegible]
23	1.57	11	1.92	35	1.77	21	1.78	22	1.72	b 14	1.70	[illegible]
24	1.53	9.2	1.92	35	1.77	21	1.76	b 20	1.73	14	1.71	[illegible]
25	1.50	8.1	1.92	35	1.72	b 21	1.71	20	1.73	14	1.71	[illegible]
26	1.46	5.8	1.92	35	1.78	21	1.72	20	a	14	1.71	[illegible]
27	1.49	7.8	1.80	22	1.81	23	1.73	20	1.68	b 14	1.69	[illegible]
28	1.57	11	1.72	b 22	1.77	b 21	1.76	20	1.71	b 14	S	[illegible]
29	1.61	13	1.85	b 27	1.76	b 20	1.73	19	XX	[illegible]	S	[illegible]
30	1.75	21	1.93	32	1.76	20	1.72	b 18	XX	XXX	S	[illegible]
31	1.74	20	XX	XXX	1.75	20	1.74	o 18	XX	XXX	1.02	[illegible]

Calendar Year 1976		OCT.	NOV.	DEC.	JAN.	FEB.	MAR.
7571	Total	213	769	755	579	394	39[illegible]
20.7	Mean	6.87	25.6	24.4	19.3	14.1	12.6
[illegible]	Run-off in acre-feet	422	1530	1500	1150	780	77[illegible]
	Maximum	21	37	31	23	18	16

STATE OF COLORADO
DIVISION OF WATER RESOURCES
OFFICE OF STATE ENGINEER

Sta. No.

Rating Table Used

APR.		MAY		JUNE		JULY		AUG.		SEPT.		
Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Day.
1.03	.52	a	.50	S	1.5	1.04	.68	1.03	.81	1.07	.91	1
1.03	.52		.50	S	1.68	1.04	.68	1.05	.91	1.07	.91	2
S	.67		.70	1.13	1.14	1.04	.68	1.04	.86	1.07	.91	3
S	.50		.70	1.13	1.14	1.04	.68	1.05	.91	1.11	1.08	4
1.02	.50		.70	1.14	1.21	1.05	.72	1.07	1.02	1.13	1.21	5
1.02	.50	a	10	S	1.45	1.05	.72	1.07	1.02	1.12	1.08	6
1.02	.50	S	2.58	S	6.6	1.05	.72	1.07	1.02	1.16	1.35	7
a	.50	S	23	S	35	1.05	.72	1.07	1.02	1.16	1.35	8
	.50	S	23	S	6.12	1.05	.72	1.08	1.08	1.12	1.08	9
	.50	S	26	S	4.13	1.04	.68	1.07	1.02	1.08	.81	10
	.50	S	3.44	1.05	.72	1.03	.68	1.07	1.02	1.08	.81	11
	.50	S	1.68	1.03	.64	1.03	.68	1.06	.96	1.09	.81	12
	.70	1.02	.76	1.03	.64	1.03	.68	1.05	.91	1.09	.81	13
	.60	S	2.4	1.04	.68	1.07	.91	1.05	.91	1.08	[illegible]	14
	.70	1.03	.81	1.05	.72	1.13	1.28	1.07	1.02	1.08	.72	15
	.60	1.03	.81	1.05	.72	1.08	.96	1.08	1.08	1.08	.72	16
	.60	S	1.24	1.04	.68	1.05	.81	1.15	1.59	1.07	.64	17
	.60	1.03	.81	1.03	.60	1.04	.76	1.16	1.67	1.07	.64	18
	.60	1.02	.76	1.03	.60	1.04	.76	1.23	2.39	1.07	.64	19
	.60	1.02	.76	1.03	.60	1.06	1.35	1.27	2.91	1.07	[illegible]	20
	.60	1.02	.76	1.04	.64	1.10	1.08	1.24	2.52	1.06	[illegible]	21
	.60	1.02	.76	1.03	.60	1.12	1.21	1.24	2.52	1.06	.56	22
	.50	S	1.78	1.04	.60	S	[illegible]	1.24	2.52	1.06	.56	23
	.50	S	4.8	1.05	.64	1.61	12	1.22	2.28	1.05	.53	24
	[illegible]	S	[illegible]	1.05	.64	S	1.9	1.21	[illegible]	1.05	[illegible]	25
	[illegible]	S	[illegible]	1.04	.60	S	[illegible]	1.18	1.76	1.05	[illegible]	26
	[illegible]	1.03	.81	1.04	.60	1.12	1.28	1.15	1.59	1.06	[illegible]	27
	[illegible]	1.03	.81	1.04	.60	1.10	1.21	1.13	1.43	1.06	[illegible]	28
	.50	1.03	.81	1.05	.64	1.08	1.03	1.12	1.25	S	1.45	29
a	.50	S	1.76	1.05	.64	1.06	.96	1.09	1.86	1.07	.76	30
XX	XXX	S	21	XX	XXX	1.03	.81	1.08	1.74	XX	XXX	31
16.4		138		86.3		51.3		49.9		24.4		[illegible]
.55		4.5		2.9		1.65		1.45		.81		9.54
[illegible]		272		171		[illegible]		88.7		[illegible]		[illegible]
[illegible]		21		15		12		[illegible]		[illegible]		[illegible]

Quarter	Computed	Checked	Date
4th			
3rd			
2nd			
1st			

Quarter	Dis.appld.	Dis.check	Date
4th			
3rd			
2nd	D. [illegible]	J. [illegible]	
1st			

Quarter	G.H.copd.	G.H.check	Date
4th			
3rd			
2nd			
1st			

Water Year

CHALK Creek near MOUTH at NATHROP, CO

Daily Gage Height, in Feet, and Discharge in Second-Feet for the Year Ending September 30, 1977

Drainage area ________ square miles. Water stage recorder STEVENS A-35 CONTINUOUS

Max. Discharge ____ Sec. ft. at 2400 on [illegible] G. H. [illegible] ft.

Max. G. H. 3.56 ft. at 1000 on [illegible] Min. Daily Discharge ____ sec.-ft. on ____

Day	OCT. Gage height	OCT. Discharge	NOV. Gage height	NOV. Discharge	DEC. Gage height	DEC. Discharge	JAN. Gage height	JAN. Discharge	FEB. Gage height	FEB. Discharge	MAR. Gage height	MAR. Discharge
1	2.80	0 51	2.58	0 33	2.44	-.02 22	2.39	-.02 19	2.36	-.01 18	2.27	0 [redacted]
2	2.80	0 51	2.58	33	2.45	23	2.43	b 19	2.35	17	2.27	[illegible]
3	2.79	+.01 51	2.58	33	2.44	22	2.39	.02 19	2.35	17	2.27	[redacted]
4	2.83	+.02 56	2.57	32	2.44	22	2.38	.02 19	2.35	17	2.27	0 [redacted]
5	2.81	+.03 55	[143] 2.55	0 30	2.43	22	2.48	b 19	2.34	17	2.31	b [illegible]
6	[142] 2.80	+.03 54	2.53	-.01 28	2.44	22	2.49	19	2.35	17	2.32	b [redacted]
7	2.78	52	2.53	28	2.45	23	2.54	19	[147] 2.34	-.01 17	2.27	0 [illegible]
8	2.78	52	2.53	28	2.44	22	2.59	19	2.34	17	2.27	[redacted]
9	2.78	52	2.52	28	2.43	22	2.77	19	2.35	17	2.27	[illegible]
10	2.78	52	2.52	28	2.43	22	3.07	19	2.35	17	2.23	0 [redacted]
11	2.77	51	2.52	-.01 28	2.43	22	2.61	19	2.36	18	2.31	b [redacted]
12	2.76	50	2.51	-.02 26	2.42	21	[146] 2.56	b 19	2.36	18	2.39	b [illegible]
13	2.76	50	2.49	-.03 25	2.42	21	2.38	-.02 19	2.37	19	2.22	0 [redacted]
14	2.75	49	2.49	-.03 25	2.42	21	2.38	19	2.37	19	2.21	0 [illegible]
15	2.74	+.03 48	2.46	-.04 22	[145] 2.42	-.02 21	2.38	19	2.38	19	2.18	-.01 [redacted]
16	2.73	+.02 46	2.45	22	2.41	20	2.38	19	2.37	19	2.18	[redacted]
17	2.73	46	2.44	21	2.41	20	2.38	19	2.37	19	2.14	[illegible]
18	2.73	46	[144] 2.45	-.04 22	2.42	21	2.38	19	2.32	-.01 16	2.13	[redacted]
19	2.68	42	2.46	22	2.42	.02 21	2.38	19	2.25	0 12	2.15	[illegible]
20	2.66	40	2.45	22	2.45	b 21	2.38	19	2.15	0 8.2	2.13	[redacted]
21	2.68	42	2.45	22	2.47	21	2.38	19	2.02	+.01 4.4	2.11	-.01 [redacted]
22	2.69	43	2.44	21	2.44	20	2.38	19	1.96	3.0	2.02	-.02 [redacted]
23	2.68	+.02 42	2.43	20	2.46	b 20	2.38	19	1.98	3.4	[147] 1.98	-.02 [redacted]
24	2.63	+.01 37	2.42	20	2.41	.02 20	2.38	19	[148] 1.98	+.01 3.4	2.02	[illegible]
25	2.63	37	2.41	19	2.43	b 20	2.37	18	2.02	b 4.0	1.98	[redacted]
26	2.66	39	2.42	20	2.41	.02 20	2.37	18	2.18	6.0	1.98	[illegible]
27	2.63	+.01 37	2.41	-.04 19	2.41	20	2.37	18	2.17	8.0	1.97	-.02 [redacted]
28	2.58	0 33	2.67	b 20	2.41	.02 20	2.37	18	2.27	b 10	1.88	-.01 [redacted]
29	2.56	31	2.73	b 21	2.43	b 20	2.37	18	XX	XXX	1.91	[illegible]
30	2.59	33	2.44	.02 22	2.40	.02 20	2.37	18	XX	XXX	1.93	[redacted]
31	2.60	0 34	XX	XXX	2.48	b 20	2.37	.02 18	XX	XXX	1.88	-.01 [illegible]

Calendar Year

	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.
Total	1402	740	652	581	[illegible]	[illegible]
Mean	45	25	21	17	14	[illegible]
Run-off in acre-feet	2776	1465	1291	1150	752	581
Maximum						
Minimum						

DIVISION OF WATER RESOURCES
OFFICE OF STATE ENGINEER

Sta. No. _____
Rating Table Used _____

Day.	APR. Gage height	APR. Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUG. Gage height	AUG. Discharge	SEPT. Gage height	SEPT. Discharge
1	1.87	1.6	1.93	2.4	S	54	2.22	10	2.03	3.8	2.15	6.8
2	1.88	1.7	1.93	2.4	2.80	50	2.23	11	2.08	5.3	2.10	5.0
3	1.89	1.8	1.95	2.8	2.76	46	2.18	9.0	2.13	7.6	2.09	4.7
4	1.88	1.7	1.94	2.6	2.73	44	2.21	10	2.10	5.9	S	[illegible]
5	1.91	2.2	1.97	3.6	2.73	44	2.33	16	2.14	7.2	2.63	32
6	1.93	2.4	S	16	2.70	41	2.35	17	2.13	6.8	2.55	25
7	1.92	2.3	S	38	S	65	2.32	16	2.12	6.5	2.47	19
8	1.92	2.3	S	59	3.07	88	2.28	14	2.13	6.8	2.46	19
9	1.91	2.2	S	70	3.02	80	2.29	14	2.12	6.5	2.53	23
10	1.92	2.3	S	70	S	60	2.23	11	2.18	8.6	2.52	22
11	1.93	2.4	S	47	2.63	38	2.22	11	2.46	23	2.52	22
12	1.93	2.4	2.64	38	2.53	30	2.12	6.8	2.47	24	2.58	26
13	1.97	3.0	2.58	34	2.45	25	2.06	5.0	2.43	22	2.60	27
14	1.93	2.4	2.67	40	2.42	23	2.10	6.2	2.43	22	2.58	26
15	1.98	3.2	2.44	26	2.37	20	2.27	13	2.46	23	2.53	23
16	1.96	2.9	2.41	24	2.25	14	2.27	13	2.46	23	2.43	16
17	1.95	2.8	2.38	22	2.18	9.6	2.23	11	2.46	23	2.43	16
18	1.95	2.8	2.29	18	2.15	8.6	2.22	10	2.49	25	2.44	17
19	1.96	2.9	2.21	10	2.13	7.6	2.24	12	2.50	26	2.44	17
20	1.96	2.9	2.18	9.3	2.11	7.2	2.25	12	2.46	23	2.45	17
21	1.95	2.8	2.11	6.8	2.08	6.2	2.30	14	2.42	21	2.38	14
22	1.95	2.8	2.11	6.8	2.08	6.2	2.38	19	2.44	22	2.38	14
23	1.94	2.6	2.27	14	2.07	5.9	2.60	[illegible]	S	14	2.39	14
24	1.93	2.4	S	26	S	8.5	2.70	[illegible]	2.07	5.0	2.38	14
25	1.93	2.4	2.45	[illegible]	2.22	11	2.67	[illegible]	2.08	5.3	2.37	13
26	1.94	2.6	2.41	[illegible]	2.23	12	2.75	46	2.13	6.8	2.42	16
27	1.93	2.4	2.46	[illegible]	2.26	13	2.67	38	2.21	9.3	2.50	20
28	1.93	2.4	2.42	[illegible]	2.17	8.6	2.58	30	2.25	11	2.41	15
29	1.93	2.4	2.43	[illegible]	2.16	8.2	2.48	24	2.23	10	2.32	13
30	1.93	2.4	S	29	2.25	13	S	13	2.19	8.6	2.38	14
31	XX	XXX	S	49	XX	XXX	1.99	3.2	2.20	[illegible]	XX	XXX
	73.1		780		848		528		421		540	
	2.4		25		28		17		14		18	
	1491		1544		1674		1045		834		1069	

Quarter: 4th | 3rd | 2nd | 1st — Computed | Checked | Date

Quarter: 4th | 3rd | 2nd | 1st — Dis. appld. | Dis. check | Date

Quarter: 4th | 3rd | 2nd | 1st — G.H. copd. | G.H. check | Date

Water Year

ARKANSAS River ~~Creek near~~ Salida, Colorado

Daily Gage Height, in Feet, and Discharge in Second-Feet for the Year Ending September 30, 19_____

Drainage area __________ square miles.   Water stage recorder __________

Max. Discharge 1560 Sec. ft. at 700 Am on June 10 G. H. 2.15 ft.

Max. G. H. 2.15 ft. at 700 on June 10 Min. Daily Discharge 100 sec.-ft. on Jan 8-9

Discharge estimated for "a" and "b" days

[illegible]

Day	OCT. Gage height	OCT. Discharge	NOV. Gage height	NOV. Discharge	DEC. Gage height	DEC. Discharge	JAN. Gage height	JAN. Discharge	FEB. Gage height	FEB. Discharge	MAR. Gage height	MAR. Discharge
1	1.29	587	1.24	549	0.82	b 239	0.69	b 160	0.61	b 150	0.63	[illegible]
2	1.28	579	1.23	541	.80	223	.66	150	.59	160	.61	[illegible]
3	1.27	572	1.25	556	.81	b 223	.66	140	.60	150	.62	[illegible]
4	1.34	634	1.23	541	.81	[illegible]	.65	130	.59	160	.63	[illegible]
5	1.29	595	1.22	534	.81	[illegible]	.62	120	.60	160	.65	[illegible]
6	1.28	587	1.20	519	.79	213	.61	120	.60	160	.61	[illegible]
7	1.31	610	1.21	526	.77	203	.63	110	.61	b 160	.65	[illegible]
8	1.30	603	1.21	526	.75	193	.62	100	.59	160	.63	[illegible]
9	1.30	603	1.19	504	.73	184	.66	100	.60	165	.65	[illegible]
10	1.32	618	1.18	497	.73	184	.65	110	.61	170	.64	[illegible]
11	1.32	618	1.20	512	.72	179	.67	120	.61	170	.57	[illegible]
12	1.30	595	1.19	504	.73	184	.70	120	.60	165	.57	[illegible]
13	1.29	587	1.17	483	.71	174	.66	130	.60	165	.61	[illegible]
14	1.29	587	1.18	490	.71	174	.66	120	.59	160	.59	[illegible]
15	1.28	572	1.17	483	.70	170	.66	120	.61	[illegible]	.57	[illegible]
16	1.28	572	1.13	448	.70	170	.71	120	.59	160	.59	[illegible]
17	1.28	572	1.12	441	.69	170	.72	120	.59	160	.61	[illegible]
18	1.31	587	1.17	476	.70	170	.67	120	.58	151	.57	[illegible]
19	1.29	572	1.16	469	.69	170	.67	120	.58	151	.57	[illegible]
20	1.27	556	1.14	455	.66	170	.67	120	.58	151	.59	[illegible]
21	1.28	564	1.13	448	.67	170	.66	120	.57	143	.62	[illegible]
22	1.29	572	1.12	441	.65	170	.63	120	.58	147	.60	[illegible]
23	1.27	556	1.12	441	.66	170	.61	120	.57	143	.57	[illegible]
24	1.25	541	1.11	434	.64	170	.61	120	.57	143	.56	[illegible]
25	1.24	534	1.11	434	.62	170	.61	b 120	.57	143	.57	[illegible]
26	1.26	556	1.13	448	.63	170	.61	130	.60	[illegible]	.57	[illegible]
27	1.25	549	1.10	427	.66	170	.63	140	.58	147	.57	[illegible]
28	1.21	519	1.07	b 407	.70	180	.64	150	.60	156	.57	[illegible]
29	1.21	519	1.08	407	.68	170	.64	150	XX	XX	a	[illegible]
30	1.25	556	.87	b 272	.67	170	.61	140	XX	XXX	.63	[illegible]
31	1.24	519	XX	XXX	.63	b 170	.61	b 150	XX	XXX	.56	[illegible]
Total		17821		14213		5719		3110		4046		4166
Mean		575		474		184		126		126		151
Run-off in acre-feet		35357		28191		[illegible]		[illegible]		[illegible]		[illegible]
Maximum		634		549		239		160		170		[illegible]

Calendar Year

DIVISION OF WATER RESOURCES
OFFICE OF STATE ENGINEER

Sta. No. _____

Rating Table Used No. 23

Day.	APR. Gage height	APR. Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUG. Gage height	AUG. Discharge	SEPT. Gage height	SEPT. Discharge
1		126	0.83	+ 01 278	1.37	03 618	0.81	+ 01 266	0.72	01 208	0.62	01 160
2		126	.83	278	1.46	691	.82	272	.72	208	.61	159
3		126	.86	295	284 1.46	03 691	.87	301	.73	213	.62	160
4		128	.85	289	1.48	708	.86	295	.78	237	.72	208
5		128	.83	278	1.49	716	.87	301	.81	255	.75	223
6		130	279 .87	+ 01 301	1.50	725	.88	+ 01 312	.82	261	.72	208
7	a	130	.93	337	1.65	856	.92	+ 01 337	.80	250	.70	198
8	271 .57	03 134	1.07	427	1.88	1075	.87	301	.73	213	.71	203
9	.59	01 143	1.15	483	1.94	1135	.86	301	.78	237	282 .74	01 218
10	.61	01 156	1.40	+ 01 675	2.09	1292	.86	+ 01 301	.83	266	.71	203
11	.65	174	1.27	° 564	1.77	968	.83	+ 03 289	.83	01 266	.70	198
12	.62	160	1.13	463	1.59	802	.80	272	.82	02 255	.73	213
13	.62	160	1.09	434	1.47	699	.76	250	.80	244	.75	223
14	.61	156	1.13	463	1.44	675	284 .79	+ 03 266	.80	244	.75	01 223
15	.65	174	1.02	387	1.58	794	.81	278	.79	259	.81	° 261
16	.63	165	.86	289	1.55	767	.78	261	.77	229	.82	266
17	.63	165	.83	272	1.55	767	.74	239	.75	218	.82	266
18	.65	01 174	.77	239	282 1.56	03 776	.73	234	.74	213	.82	266
19	.69	° 198	.72	213	1.52	02 750	.73	234	.78	234	.82	266
20	.70	° 203	284 .67	° 188	1.49	02 725	.75	244	.78	234	.81	° 261
21	283 .65	+ 01 184	.65	177	1.12	° 455	.82	263	.77	229	.80	255
22	.65	184	.63	170	1.11	448	.83	289	.77	229	.80	° 255
23	.65	184	.64	174	1.10	° 441	.90	331	.73	208	285 .78	+ 01 250
24	.67	193	.70	203	.96	+ 01 420	1.07	441	.74	213	.78	250
25	.69	203	.81	° 261	.94	343	1.08	448	.81	250	.78	250
26	.71	213	.88	01 295	.94	343	1.15	497	284 .76	02 223	.77	+ 01 244
27	.74	229	.94	331	.94	343	1.08	+ 448	.75	218	.78	° 244
28	.76	239	1.03	387	.94	343	.95	02 [illegible]	.75	218	.78	244
29	.78	250	1.07	414	.92	321	285 .85	01 289	.74	213	.78	244
30	.79	+ 01 255	1.06	01 407	285 .89	+ 01 312	.80	° 255	.73	208	.77	° 239
31	XX	XXX	1.20	02 497	XX	XXX	.74	01 218	.72	02 [illegible]	XX	XXX
	5140		10471		20009		9414		7140		6638	109561
	173		338		667		304		230		221	300
	[illegible]		20774		39698		18677		14166		13170	216231
	279		676		1293		497		266		266	1293

4th / 3rd / 2nd / 1st Quarter — Computed / Checked / Date

4th / 3rd / 2nd / 1st Quarter — Dis.appld. / Dis.check / Date

4th / 3rd / 2nd / 1st Quarter — G.H.copd. / G.H.check / Date

Water Year

ARKANSAS Creek near WELLSVILLE, COLO.

Daily Gage Height, in Feet, and Discharge in Second-Feet for the Year Ending September 30, 1977

Drainage area 1,485 square miles. Water stage recorder STEVENS A-35 CONTINUOU

Max. Discharge 1720 Sec. ft. at 1000 1485 on [illegible] G. H. 4.87 ft. on Jan 9 77

Max. G. H. 4.87 ft. at 1000 Hrs on June 12, 77 Min. Daily Discharge 155 sec.-ft. on [illegible]

Day	OCT. Gage height	OCT. Discharge	NOV. Gage height	NOV. Discharge	DEC. Gage height	DEC. Discharge	JAN. Gage height	JAN. Discharge	FEB. Gage height	FEB. Discharge	MAR. Gage height	MAR. Disch
1	3.93	.11 640	3.86	.11 605	3.23	.11 323	2.99	b 236	2.88	.05 216	2.93	.02
2	3.92	635	3.84	595	3.20	311	2.96	222	2.88	.05 216	2.89	
3	3.92	.11 635	3.86	605	3.22	.11 319	2.98	230	2.86	.04 212	2.81	
4	4.07	.12 710	3.85	.11 600	3.22	319	2.94	216	2.86	212	2.92	
5	3.98	.13 655	3.81	.12 575	3.21	.11 315	2.91	194	2.86	212	2.94	
6	3.94	635	3.78	.11 565	3.20	.10 315	2.91	194	2.87	.04 216	2.87	
7	3.98	.13 655	3.79	570	3.16	299	2.86	170	2.83	.03 205	2.97	
8	3.96	645	3.78	565	3.18	307	2.82	155	2.82	.03 202	2.97	
9	3.94	635	3.78	565	3.19	.10 311	2.80	155	2.84	208	2.98	
10	3.96	645	3.77	560	3.17	.08 311	2.89	174	2.85	212	2.98	.02
11	3.96	.13 645	3.77	560	3.12	.05 303	2.95	188	2.85	212	2.83	
12	3.93	.12 635	3.76	.11 555	3.15	315	2.96	191	2.83	205	S	
13	3.92	630	3.73	.10 545	3.11	299	2.99	202	2.88	222	2.92	
14	3.92	.12 630	3.76	560	3.12	.05 303	2.95	b 188	2.88	222	2.89	
15	3.89	.10 625	3.74	.10 550	3.08	.01 303	a	190	2.87	219	2.82	
16	3.88	620	3.68	.09 526	3.07	.01 299		190	2.88	222	2.83	
17	3.86	610	3.67	521	3.08	303		190	2.88	222	2.91	
18	3.89	625	3.73	.09 550	3.07	299		200	2.88	222	2.84	
19	3.87	615	3.72	545	3.05	291		200	2.86	216	2.80	
20	3.85	605	3.70	535	2.97	261		200	2.83	205	2.83	0
21	3.86	.10 610	3.68	526	2.98	264		200	2.81	198	2.89	+.01
22	3.87	615	3.67	521	2.96	258		200	2.83	.03 205	2.85	+.02
23	3.84	600	3.67	521	2.96	258		200	2.77	.02 188	2.73	+.04
24	3.82	590	3.64	508	2.97	261		200	2.73	174	2.71	+.04
25	3.82	590	3.64	508	2.94	250		.05 200	2.79	.02 194	2.73	
26	3.83	595	3.69	.02 530	2.94	250		200	2.77	188	2.75	
27	3.86	610	a	521	2.99	268	a	200	2.79	194	2.72	
28	3.83	595	a	503	3.02	279	2.90	.05 222	2.81	.02 202	2.72	
29	3.84	.10 600	3.61	.09 494	2.98	264	2.88	216	XX	XXX	2.65	
30	3.88	.11 615	3.37	.18 383	2.98	264	2.87	212	XX	XXX	S	
31	3.87	.11 610	XX	XXX	2.97	.01 261	2.88	.05 216	XX	XXX	2.74	+.04
Total		19360		16267		8[illegible]		6181		5821		62
Mean												
Run-off in [illegible] feet												
Maximum												

Calendar Year

STATE OF COLORADO
DIVISION OF WATER RESOURCES
OFFICE OF STATE ENGINEER

Sta. No. 07093700
Rating Table Used

Day.	APR. Gage height	APR. Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUG. Gage height	AUG. Discharge	SEPT. Gage height	SEPT. Discharge
1	2.68	+.04 177	3.11	-.05 299	3.96	-.05 686	3.10	-.05 295	2.95	-.03 247	S	-.03 202
2	2.66	170	3.16	-.06 315	4.05	-.06 734	3.07	283	2.92	236	2.76	180
3	2.63	161	3.16	315	4.06	-.06 740	3.18	327	2.94	244	2.77	184
4	2.61	155	3.16	315	4.08	752	3.19	-.04 331	3.02	272	2.92	236
5	2.61	155	3.12	-.06 299	4.08	752	3.21	-.04 343	3.08	295	3.07	287
6	2.61	155	3.18	-.07 319	4.08	-.06 752	3.25	359	3.07	291	2.99	261
7	2.62	158	3.30	367	4.24	-.05 854	3.28	371	3.07	291	2.95	247
8	2.67	+.04 174	3.55	476	4.53	1050	3.27	367	2.97	254	2.97	254
9	2.75	+.03 198	3.68	535	4.61	1100	3.21	-.04 343	2.99	261	3.02	-.03 272
10	2.77	+.02 202	3.98	686	4.78	-.04 1220	3.19	-.03 339	3.12	311	2.98	-.03 258
11	2.85	+.01 226	3.88	635	4.47	-.01 1010	3.17	331	3.17	331	2.95	-.04 244
12	2.82	216	3.65	521	4.27	-.03 884	3.13	-.03 315	3.12	311	3.00	261
13	2.78	202	3.58	490	4.12	-.02 800	3.03	-.02 279	3.08	295	3.03	272
14	2.78	202	3.64	516	4.07	770	3.06	-.02 291	3.08	295	3.04	-.04 275
15	2.83	219	3.50	454	4.20	948	3.10	307	3.08	295	3.12	-.05 [illegible]
16	2.83	219	3.22	-.07 335	4.18	936	3.08	299	3.04	279	3.12	303
17	2.80	208	3.17	-.05 323	4.16	824	3.00	265	3.01	268	3.12	303
18	2.85	+.01 226	3.06	-.03 287	4.17	-.02 830	2.97	258	3.00	264	3.09	291
19	2.91	0 244	2.97	-.01 261	4.16	824	2.97	258	3.03	275	3.09	291
20	2.97	264	2.89	0 236	4.13	-.02 804	3.00	-.01 268	3.07	291	3.09	291
21	2.88	0 233	2.85	222	3.69	-.07 540	3.13	-.03 315	3.05	287	3.09	291
22	2.86	226	2.81	208	3.62	-.08 503	3.19	339	3.04	279	3.07	283
23	2.86	0 226	2.81	208	3.61	-.08 498	3.23	355	3.01	268	3.07	-.05 283
24	2.90	-.01 236	2.89	0 236	3.40	-.10 395	3.52	480	2.99	261	3.05	275
25	2.90	-.01 236	3.08	-.01 303	3.37	-.11 379	3.58	509	3.09	339	3.04	272
26	2.93	-.02 244	3.24	-.02 363	3.37	379	3.65	540	3.04	-.03 [illegible]	3.04	272
27	2.99	-.03 261	3.34	-.02 404	3.35	371	3.62	526	3.00	264	3.06	279
28	3.01	-.03 268	3.56	-.03 498	3.33	363	3.40	426	3.02	272	3.06	279
29	3.07	-.04 287	3.64	-.04 530	3.31	-.11 355	3.22	-.03 321	3.02	272	3.05	275
30	3.07	-.04 287	3.60	512	3.25	-.12 327	3.09	297	3.00	264	3.02	234
31	XX	XXX	3.72	-.04 570	XX	XXX	2.99	-.03 [illegible]	2.97	-.03 [illegible]	XX	XXX
	6435		12038		[illegible]		10,632		8641		[illegible]	

Day. | Quarter | 4th | 3rd | 2nd | 1st | Computed | Checked | Date
Dis.appld. | Dis.check | Date
G.H.copd. | G.H.check | Date
Water Year

GRAPE River at / Creek near WESTCLIFFE, COLORADO

Daily Gage Height, in Feet, and Discharge in Second-Feet for the Year Ending September 30, 19 77

Drainage area 320 square miles. Water stage recorder STEVENS A-35

Max. Discharge 485 Sec. ft. at 2000HRS on AUG. 19 G. H. 2.55 ft.

Max. G. H. 2.55 ft. at 2000HRS on AUG. 19 Min. Daily Discharge 2 sec.-ft. on MANY DAYS

DISCHARGE ESTIMATED ON "e" and "b" days

"S" SUBDIVIDED days "V" VARIABLE SHIFT

(GOES HYDROGRAPH HYDROGRAPH USED)

Calendar Year 1976

Day	OCT. Gage height	OCT. Discharge	NOV. Gage height	NOV. Discharge	DEC. '76 Gage height	DEC. '76 Discharge	'77 JAN. Gage height	JAN. Discharge	FEB. Gage height	FEB. Discharge	MAR. Gage height	MAR. Discharge
1	0.67	31	0.71	39	0.86	b 60	0.80	b 14	0.70	b 13	0.81	b 12
2	.64	28	.74	43	.94	40	.79	15	.59	12	.70	10
3	.62	26	.87	60	.97	32	.70	16	.56	12	.66	12
4	.82	49	.95	73	.90	25	.61	17	.54	11	.56	13
5	.82	49	.95	73	.85	21	.64	17	.51	11	.56	15
6	.76	43	.97	76	.74	18	.71	17	.54	10	.47	16
7	.89	60	.95	73	.66	16	.76	17	.51	9.4	.48	16
8	.88	60	.83	54	.68	15	.68	16	.52	9.6	.59	17
9	.75	43	.76	44	.65	14	.44	16	.56	9.8	.70	18
10	.68	36	.70	37	.60	14	.77	16	.55	10	.60	19
11	.66	33	.68	35	.58	13	.92	16	.54	11	.50	20
12	.65	32	.64	30	.56	13	.88	15	.55	12	.56	18
13	.64	31	.63	29	.64	12	.92	14	.56	12	.64	17
14	.63	30	.64	30	.72	12	.66	13	.54	13	.63	16
15	.62	29	.61	28	.73	10	.70	13	.54	15	.57	15
16	.62	29	.63	30	.91	9.4	.91	13	.57	16	.57	20
17	.62	29	.58	25	.91	9.0	.84	13	.57	18	.53	30
18	.61	28	.59	26	1.08	8.0	.99	13	.57	19	.50	45
19	.60	27	.63	31	0.92	7.4	.95	13	.57	21	.54	55
20	.60	27	.60	28	1.11	7.0	.85	13	.58	23	.52	58
21	.59	26	.60	28	1.25	7.2	.80	13	.50	25	.54	50
22	.60	27	.56	25	1.35	7.4	.75	14	.52	27	.56	44
23	.60	27	.55	24	1.35	8.0	.79	14	.47	30	.59	38
24	.58	25	.54	24	1.15	8.4	.70	15	.51	25	.60	b 35
25	.56	24	.54	24	0.90	8.8	.66	15	.63	22	.58	30
26	.55	23	.50	20	.76	10	.68	15	.62	19	.57	29
27	.61	28	.65	35	.84	10	.67	15	.72	16	.59	31
28	.65	[illegible]	.81	54	.78	11	.65	14	.87	b 14	.55	[illegible]
29	.65	32	.96	78	.86	12	.62	14	XX	XXX	.47	19
30	.67	35	.97	79	.84	13	.57	14	XX	XXX	.50	22
31	.68	36	XX	XXX	.84	b 13	.65	b 14	XX	XXX	.52	24

		OCT.	NOV.	DEC.	JAN.	FEB.	MAR.
86872	Total	[illegible]	1255	464.6	454	445.8	791
237	Mean	33	42	15	14.6	15.9	25.5
[illegible]	Run-off in acre-feet	[illegible]	2489	920	899	[illegible]	1566
	Maximum	60	79	60	17	30	[illegible]
	Minimum	[illegible]	20	7.0	13	9.4	[illegible]

STATE OF COLORADO
DIVISION OF WATER RESOURCES
OFFICE OF STATE ENGINEER

Sta. No. 07095000

Rating Table Used _____

Day	APR. Gage height	APR. Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUG. Gage height	AUG. Discharge	SEPT. Gage height	SEPT. Discharge
1	.51	23	0.65	38	0.27	6	[C15] 0.21	2	0.29	8	a	8.6
2	.49	21	.55	27	.30	8	.21	2	.28	8		8.4
3	.52	24	.48	21	.29	7	.21	2	.28	8		8.2
4	.53	24	.45	19	.30	8	.20	2	.28	8		8.2
5	.55	26	.41	16	.26	6	.22	3	.27	7		8.0
6	.56	27	[C12] .39	15	.27	6	.22	3	.24	6		7.8
7	.55	26	.36	13	.34	9	.22	3	a	8.6	[C19] a	7.4
8	.55	26	.37	13	.55	24	.21	3	.34	11		7.2
9	.55	26	.40	16	.50	20	.20	3	.38	13		7.0
10	a	10	.43	18	.33	8	.21	3	a	15		7.4
11		(31)	.42	17	.27	5	[C16] .19	3		16		8.0
12		(43)	.39	14	.25	5	.20	3		16		8.6
13		(55)	.37	13	.23	4	.20	3		17		9.6
14		(71)	.38	13	.21	3	.23	4		16		8.6
15	1.10	107	.36	12	[C14] .19	2	.27	6		16		7.8
16	.22	132	.33	10	.18	2	.25	5		17		7.0
17	0.93	71	.29	8	.19	2	.26	5		18		6.6
18	[C11] .76	41	.28	8	.20	3	.25	5		19		6.2
19	.72	39	.27	7	.21	3	.22	4		17		6.0
20	.98	78	[C13] .27	7	.20	3	.22	4		16		5.8
21	.16	117	.28	8	.21	3	.24	5		16		5.8
22	0.94	76	.28	8	.22	3	.24	5		14	a	5.9
23	.72	44	.27	7	.21	3	.25	6	[C18] a	14	0.37	6
24	.73	45	.26	7	.29	5	.27	7		12	.37	6
25	.92	73	.25	6	.27	5	S	14		11	.38	7
26	.73	46	.27	7	.24	3	S	26		10	.39	7
27	.67	39	.28	7	.22	3	.44	19		9.0	[C20] .41	8
28	.60	31	.27	7	.22	3	[C17] .39	15		9.0	.42	8
29	.60	31	.28	7	.21	2	.33	11		9.0	.43	9
30	.62	33	.28	7	.20	2	.34	12		8.8	.41	8
31	XX	XXX	.26	6	XX	XXX	.30	9	a	8.6	XX	XXX
	1156		382		166		197		382		223.1	
	39		12		6		6		12.3		7.4	
	2881		758		329		391		756		442	
	[illegible]		38		24		26		19		9	
	[illegible]		4		2		3		[illegible]		[illegible]	

Quarter: 4th, 3rd, 2nd, 1st — Computed, Checked, Date

Quarter: 4th, 3rd, 2nd, 1st — Dis.appld., Dis.check, Date

Quarter: 4th, 3rd, 2nd, 1st — G.H.copd., G.H.check, Date

Water Year 1977

ARKANSAS Creek near CANON CITY, COLORADO

Daily Gage Height, in Feet, and Discharge in Second-Feet for the Year Ending September 30, 1977

Drainage area 3,117 square miles. Water stage recorder Stevens A-35

Max. Discharge ____ Sec. ft. at 2100 on August 14 G. H. 6.78 ft.

Max. G. H. 6.78 ft. at 2100hrs on Aug 14 Min. Daily Discharge [illegible] sec.-ft. on [illegible]

Day	OCT. Gage height	OCT. Discharge	NOV. Gage height	NOV. Discharge	DEC. '76 Gage height	DEC. '76 Discharge	'77 JAN. Gage height	'77 JAN. Discharge	FEB. Gage height	FEB. Discharge	MAR. Gage height	MAR. Discharge
1	5.89	713	5.80	643	5.50	394	5.20	b 280	5.16	b 250	5.24	[illegible]
2	5.78	643	5.79	633	5.47	376	5.19	280	5.16	[illegible]	5.25	[illegible]
3	5.75	615	5.79	633	5.49	388	5.20	280	5.14	245	5.20	[illegible]
4	5.83	724	5.80	643	5.48	382	5.20	280	5.15	245	5.21	[illegible]
5	5.83	724	5.78	615	5.47	376	5.18	280	5.13	240	5.23	[illegible]
6	5.77	643	5.78	615	5.48	382	a	240	5.14	235	5.22	[illegible]
7	5.80	633	5.78	615	5.42	b 365		230	5.16	230	5.21	[illegible]
8	5.80	633	5.80	633	5.44	315		225	5.15	230	5.27	[illegible]
9	5.79	624	5.78	615	5.45	370		200	5.19	b [illegible]	5.28	[illegible]
10	5.80	633	5.78	615	5.45	370		235	5.13	223	5.31	[illegible]
11	5.81	643	5.76	597	5.41	350		255	5.13	223	5.28	[illegible]
12	5.80	633	5.75	588	5.40	350		275	5.13	223	5.17	[illegible]
13	5.77	615	5.73	570	5.40	350		265	5.13	223	5.20	[illegible]
14	5.75	606	5.73	570	5.37	325	a	275	5.15	230	5.27	[illegible]
15	5.75	606	5.72	562	5.37	325	5.30	b 265	5.13	223	5.23	[illegible]
16	5.75	606	5.68	521	5.37	325	5.33	260	5.15	230	5.21	[illegible]
17	5.75	606	5.66	505	5.35	300	5.32	260	5.16	234	5.17	[illegible]
18	5.75	606	5.67	513	5.35	300	5.28	270	5.17	238	5.13	[illegible]
19	5.76	615	5.68	521	5.35	300	5.25	275	5.17	238	5.09	[illegible]
20	5.75	606	5.66	505	5.29	b [illegible]	5.25	280	5.16	234	5.08	[illegible]
21	5.74	597	5.65	497	5.19	270	5.25	285	5.16	234	5.12	[illegible]
22	5.74	597	5.64	490	5.22	270	5.23	285	5.17	238	5.13	[illegible]
23	5.74	597	5.64	490	5.21	270	5.22	280	5.16	234	5.10	[illegible]
24	5.72	579	5.64	490	5.22	270	5.20	275	5.14	227	5.04	[illegible]
25	5.70	562	5.63	482	5.23	270	5.18	270	5.15	230	5.01	[illegible]
26	5.72	579	5.64	490	5.20	270	5.17	270	5.12	219	5.03	16[illegible]
27	5.76	615	5.71	545	5.21	270	5.15	260	5.15	230	5.03	[illegible]
28	5.76	615	5.63	b 482	5.22	270	5.16	[illegible]	5.18	242	5.00	[illegible]
29	5.74	597	5.64	490	5.20	270	5.17	265	XX	XXX	4.99	[illegible]
30	5.77	624	5.62	475	5.19	[illegible]	5.14	260	XX	XXX	4.89	[illegible]
31	5.82	662	XX	XXX	5.16	b [illegible]	5.12	b 250	XX	XXX	5.01	15[illegible]

Calendar Year 1976		OCT.	NOV.	DEC.	JAN.	FEB.	MAR.
220544	Total	19351	16643	[illegible]	8170	6544	705[illegible]
602	Mean	624	555	320	264	234	705[illegible]
[illegible]	Run-off in acre-feet	[illegible]	[illegible]	19667	16177	[illegible]	[illegible]
	Maximum	724	643	394	285	[illegible]	[illegible]
	Minimum	[illegible]	[illegible]	[illegible]	200	[illegible]	[illegible]

STATE OF COLORADO
DIVISION OF WATER RESOURCES
OFFICE OF STATE ENGINEER

Sta. No. 07096500
Rating Table Used #21

Day	APR. Gage height	APR. Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUG. Gage height	AUG. Discharge	SEPT. Gage height	SEPT. Discharge
1	5.04	07 167	5.16	-03 219	5.62	0 482	5.27 [40]	0 276	4.87	-01 137	4.93	+09 182
2	5.02	-07 161	5.25	-02 255	5.80	633	5.15	-02 219	4.74	0 111	4.68	+10 119
3	4.98	-07 150	5.20	-02 238	5.88	713	5.19	234	4.66	-0 95	4.59	+11 103
4	4.93 [36]	-08 135	5.15	-01 223	5.83	662	5.22	246	4.88	+03 150	4.70	+12 128
5	4.87	121	5.10	0 208	5.84	672	5.24	255	5.03	+04 198	4.90	+13 185
6	4.92	132	5.07 [40]	0 198	5.87	703	5.27	268	5.11	+05 230	4.95	+14 205
7	4.94	137	5.13	219	5.92	756	5.26	263	5.12	+05 234	4.83 [49]	+15 169
8	4.96	-142	5.24	263	6.15	1052	5.29	276	5.07	215	4.90	191
9	5.00	-08 153	5.44	364	6.28	1260	5.28	272	5.01 [47]	+05 194	4.90	191
10	5.01	-08 155	5.61	475	6.36	1406	5.27	268	5.05	208	5.03	238
11	5.08	-01 178	5.79	0 624	6.23	1176	5.12 [45]	-02 205	5.16	250	4.97	215
12	5.12	191	5.59	460	6.01	862	5.13	208	5.15	246	5.00	227
13	5.07	175	5.45	370	5.87	703	5.14	212	5.12	234	5.07	255
14	5.04	167	5.46	376	5.79	624	5.08	191	S	+11 359	5.06	250
15	5.15	-06 205	5.49	394	5.84 [43]	0 672	5.17	223	5.38	+05 358	5.07	255
16	5.35	-04 295	5.32	300	5.90	734	5.15	215	5.18	+01 242	5.11	272
17	5.25	-03 255	5.14	223	5.88	713	5.12	205	5.22	+01 259	5.11	+15 272
18	5.17	-03 223	5.07	198	5.88	713	5.07	188	5.08	0 201	5.10	+14 263
19	5.20	234	4.97	167	5.91	745	5.03	175	5.05	191	5.10	+14 263
20	5.30	276	4.90 [41]	0 147	5.90	734	S	+01 248	S	342	5.09	+13 255
21	5.33	290	4.83	130	5.78	615	5.35	300	S	289	5.07	+11 238
22	5.27	263	4.78	119	5.52	413	5.35	300	S	287	5.07	+11 238
23	5.22	242	4.67	97	5.50	400	5.32	286	5.12 [46]	0 215	5.06	+10 230
24	5.15	215	4.59	84	5.46	376	5.37	310	5.07	+01 201	5.04	+08 215
25	5.15	215	4.80	123	5.33	305	5.52	394	5.06	+02 201	5.04	+08 215
26	5.16	219	5.10	208	5.31	295	S	-03 518	5.14	+03 234	5.02 [50]	+06 201
27	5.15	215	5.28	281	5.30	290	5.72	537	5.05	+04 205	5.02	201
28	5.20	234	5.40	341	5.30	290	5.52 [46]	-03 394	5.06	+0 212	5.07	219
29	5.19	230	5.52	413	5.30	290	5.32	-02 290	5.05	+0 212	5.04	208
30	5.16	-03 219	5.50	400	5.30	0 290	5.16	-02 223	5.03	+07 208	5.02	+06 201
31	XX	XXX	5.43 [38]	0 358	XX	XXX	5.04	-01 185	5.00	+08 201	XX	XXX

Day. | 4th | 3rd | 2nd | 1st | Quarter | Computed | Checked | Date

Dis.appld. | Dis.check | Date

G.H.copd. | G.H.check | Date

Water Year 1977

ARKANSAS Creek near PORTLAND, COLO.

Daily Gage Height, in Feet, and Discharge in Second-Feet for the Year Ending September 30, 19 77

Drainage area 4,280 square miles. Water stage recorder STEVENS A-35 CONTINUOUS

Max. Discharge 4100 Sec. ft. at 1900 hr on July 27 G. H. 6.36 ft.

Max. G. H. 6.36 ft. at 1900 hr on July 27 Min. Daily Discharge 174 sec.-ft. on August

(1.28) Estimated discharge for "a" days

Day	OCT. Gage height	OCT. Discharge	NOV. Gage height	NOV. Discharge	DEC. Gage height	DEC. Discharge	JAN. Gage height	JAN. Discharge	FEB. Gage height	FEB. Discharge	MAR. Gage height	MAR. Discharge
1	2.90	693	2.78	658	a	(325)	a	(250)	1.58	222	1.55	[illegible]
2	2.83	658	2.75	642	2.07	322	a	(260)	1.57	219	1.65	[illegible]
3	2.78	636	2.74	636	2.08	329	a	(272)	1.54	210	1.54	[illegible]
4	2.93	729	2.74	631	2.07	325	a	(243)	1.52	[illegible]	1.50	[illegible]
5	3.00	777	2.72	620	2.05	322	a	[illegible]	1.46	[illegible]	1.55	[illegible]
6	2.87	699	2.70	609	2.05	322	a	(207)	1.53	[illegible]	1.57	[illegible]
7	2.87	705	2.70	609	2.00	307	1.57	204	1.54	[illegible]	1.54	[illegible]
8	2.87	705	2.72	614	1.97	296	1.55	199	1.49	185	1.62	[illegible]
9	2.85	699	2.71	609	2.04	325	1.45	172	1.50	[illegible]	1.62	[illegible]
10	2.83	687	2.68	592	2.00	310	1.59	210	1.52	[illegible]	1.71	[illegible]
11	2.83	693	2.65	582	1.93	289	1.65	228	a	(200)	1.66	[illegible]
12	2.80	675	2.67	592	1.90	283	1.72	247	a	[illegible]	1.43	[illegible]
13	2.75	653	2.64	582	1.94	300	1.67	234	a	[illegible]	1.45	[illegible]
14	2.73	642	2.64	582	1.90	289	1.72	247	a	[illegible]	1.60	[illegible]
15	2.72	631	2.63	582	1.87	283	1.68	237	1.49	180	1.55	[illegible]
16	2.73	636	2.60	565	1.85	279	1.67	234	1.51	196	1.49	[illegible]
17	2.73	631	2.54	535	1.83	276	1.67	234	1.52	199	1.43	[illegible]
18	2.73	631	2.53	[illegible]	1.83	279	1.73	250	1.54	204	1.50	[illegible]
19	2.78	653	2.56	545	1.81	276	1.80	269	a	[illegible]	1.40	[illegible]
20	2.73	620	2.54	[illegible]	1.74	[illegible]	1.76	263		[illegible]	1.38	[illegible]
21	2.68	592	2.52	520	1.60	250	1.75	263		[illegible]	1.44	[illegible]
22	2.69	604	2.52	520	1.67	247	1.70	250		[illegible]	1.45	[illegible]
23	2.71	614	2.49	505	1.63	243	1.72	263		[illegible]	1.37	[illegible]
24	2.67	598	2.47	495	1.70	243	1.70	259	a	[illegible]	a	[illegible]
25	2.60	560	2.50	[illegible]	1.73	[illegible]	1.57	219	1.45	[illegible]		[illegible]
26	2.66	[illegible]	2.62	[illegible]	1.65	228	1.51	[illegible]	1.40	[illegible]		[illegible]
27	2.75	648	2.60	[illegible]	1.70	243	1.55	[illegible]	1.40	[illegible]		[illegible]
28	2.77	[illegible]	a	(500)	1.72	250	1.57	219	1.45	[illegible]		[illegible]
29	2.75	648	a	(460)	1.70	243	1.56	216	XX	XXX		[illegible]
30	2.75	648	a	(450)	1.69	240	1.56	216	XX	XXX	a	[illegible]
31	2.80	[illegible]	XX	XXX	a	(240)	1.52	[illegible]	XX	XXX	1.40	[illegible]

Calendar Year 1976

Calendar Year 1976		OCT.	NOV.	DEC.	JAN.	FEB.	MAR.
297311	Total	20291	16930	8673	[illegible]	5440	[illegible]
812	Mean	655	564	280	235	190	[illegible]
[illegible]	Run-off in acre-feet	[illegible]	[illegible]	17203	[illegible]	[illegible]	[illegible]
	Maximum	777	658	329	272	[illegible]	[illegible]
		[illegible]	[illegible]	[illegible]	172	145	[illegible]

STATE OF COLORADO
DIVISION OF WATER RESOURCES
OFFICE OF STATE ENGINEER

Sta. No. 07099200

Rating Table Used

Day	APR. Gage height	APR. Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUG. Gage height	AUG. Discharge	SEPT. Gage height	SEPT. Discharge
1			1.94	+07 272	2.22	+07 376	1.80	+08 231	1.40	+03 124	1.42	+12 143
2		(132)	1.95	+07 276	2.52	510	1.59	172	1.33	+03 114	1.33	+12 127
3		(125)	1.88	+05 247	2.69	598	1.62	180	1.28	0 104	1.28	+11 118
4		(119)	1.81	+01 222	2.64	570	1.72	207	1.36	0 114	1.39	135
5		114	1.71	+03 191	2.67	+07 587	1.77	222	1.48	0 132	1.48	153
6		111	1.67	+02 178	2.73	+06 614	1.81	+08 234	1.61	0 158	1.53	165
7		111	1.67	178	2.83	+06 670	1.82	+09 240	1.60	-01 153	1.45	+11 147
8		111	1.71	188	3.12	+05 840	1.87	+11 263	1.56	-05 137	1.46	+11 149
9		111	S	287	3.42	+08 1060	1.80	240	1.47	-14 110	1.44	+10 143
10		114	S	345	3.57	+10 1190	1.73	219	S	V 132	1.51	+9 155
11		122	2.58	+02 515	3.47	1110	1.55	170	1.67	-17 135	1.52	+9 158
12		130	2.29	+14 392	3.13	880	1.48	153	1.72	-13 143	1.60	+08 175
13		115	2.07	+6 314	2.89	729	1.51	160	1.62	-19 124	1.69	+16 194
14		119	2.07	+13 322	2.70	+10 620	1.41	139	S	-19 248	1.69	+16 194
15		259	2.15	+10 360	2.69	+10 614	1.53	+11 165	S	-20 671	1.64	+14 175
16		300	1.94	283	2.82	+17 729	1.57	175	2.01	-20 210	1.71	+12 185
17		250	1.65	194	2.74	681	1.51	160	2.00	-21 204	1.71	+12 188
18		278	1.52	+10 160	2.72	670	1.42	141	S	V 266	1.69	175
19		276	1.48	+09 149	2.77	699	1.39	135	1.56	+12 175	1.63	-01 160
20	S	+13 382	1.42	137	2.74	681	1.42	141	2.05	329	1.62	-02 155
21		340	1.42	137	S	604	S	288	2.05	329	a	-03 (149)
22		307	1.37	+09 129	2.10	+17 368	1.93	+11 283	S	+12 317	a	-04 (158)
23		286	a	(100)	2.03	+15 333	S	V 257	1.71	+13 219	1.70	-03 172
24		259	a	? (68)	2.10	+15 360	1.89	+16 253	1.61	191	1.67	-02 168
25		237	a	? (77)	1.88	+12 269	S	+15 451	1.58	183	1.66	-02 165
26		225	1.54	+08 160	1.83	+08 240	S	+14 659	1.61	191	1.66	-02 165
27		213	1.75	216	1.84	+12 243	S	+03 640	1.50	162	1.65	-01 165
28		237	1.94	276	1.78	225	2.37	420	1.48	158	1.68	172
29		272	2.17	360	1.86	250	2.00	279	1.48	+13 158	1.67	170
30		269	2.13	344	1.83	+06 240	1.73	196	1.43	+13 147	1.65	-01 165
31	XX	XXX	2.03	+9 307	XX	XXX	1.57	+03 155	1.43	+13 147	XX	XXX
			7024		17560		7628		5985		4846	
		202	227		585		246		193		161	

Quarter: 4th, 3rd, 2nd, 1st — Computed, Checked, Date

Quarter: 4th, 3rd, 2nd, 1st — Dis.appld., Dis.check, Date

Quarter: 4th, 3rd, 2nd, 1st — G.H.copd., G.H.check, Date

Water Year 1977

CUCHARAS Creek near Boyd Ranch near La Veta, Colo.

Daily Gage Height, in Feet, and Discharge in Second-Feet for the Year Ending September 30, 1977

Drainage area 56 square miles. Water stage recorder

Max. Discharge 56.0 Sec. ft. at 0830 on MARCH 18 G. H. 1.75 ft.
Max. G. H. 1.75 ft. at 0830 on MARCH 18 Min. Daily Discharge 5.15 sec.-ft. on 2100
SEPT. 22 (83). ALL "a" days and "b" days estimated discharge.
S - discharge substantially V - Variable shift

Day.	OCT. Gage height	OCT. Discharge	NOV. Gage height	NOV. Discharge	DEC. Gage height	DEC. Discharge	JAN. Gage height	JAN. Discharge	FEB. Gage height	FEB. Discharge	MAR. Gage height	MAR. Discharge
1		9.0	.96	9.8	a	13	a	8.2	a	7.5	a	6.
2		8.6	.97	9.2		11		8.6		7.2		5
3		8.0	.97	9.2		10		9.0		6.8		6.
4		10	.96	8.8		9.6		9.4		6.7		6.4
5		10	.97	9.2		9.0		10		6.6		6
6	.96	10	.96	8.8		8.5		9.8		6.4		8.
7	.98	11	.97	9.2		8.0		9.5		6.2		8
8	.99	11	.97	9.2		8.0		9.4		6.2		8
9	1.02	12	.97	9.2		7.5		9.2		6.4		8.
10	1.00	11	.95	8.5		7.0		9.0		6.6		
11	1.00	11	.95	8.5		7.0		8.4		6.9		8.
12	.97	9.6	.92	7.4		7.0		7.8		7.1		8
13	.97	9.6	.98	7.4		7.0		7.4		7.4		8
14	.96	8.8	1.03	7.3		6.8		7.4		7.7		7.
15	.95	8.2	.97	7.2		6.4		7.6		8.0	a	7.
16	.95	8.2	.99	(7.1)7.2		6.0		7.7		8.2		8.
17	.95	8.2	1.08	7.2		5.4		7.8		8.8	1.07	
18	.96	8.5	1.00	7.2		5.0		7.9		9.6	1.35	2
19	.95	8.2	a	7.2		4.5		8.0		10	1.50	3
20	.95	8.2		7.2		4.0		8.0		11	1.52	
21	.95	8.2		7.2		4.3		8.2		12	1.47	
22	.94	7.8		7.2		4.6		8.4		13	1.20	
23	.93	7.4		7.2		4.9		8.6		15	1.12	
24	.93	7.4		7.2		5.4		8.6		13	1.07	
25	.93	7.4		7.2		6.0		9.0		12	1.07	
26	.92	7.1		7.2		6.2		8.8		10	1.07	
27	.93	7.4	a	7.2		6.4		8.6		8.6	1.08	
28	S	9.0	.98	7.2		6.8		8.4	a	7.4	1.07	
29	1.00	10	.98	7.2		7.2		8.3	XX	XX	1.25	
30	1.03	12	a	17		7.6		8.2	XX	XXX	1.27	
31	1.00	10	XX	XXX	a	8.0	a	8.0	XX	XXX	1.13	
5123	Total	283		246		218		262		242		378
14.0	Mean	9.1		8.2		7.0		8.4		8.6		12.2
10153	Run-off in acre-feet	560		488		432		519		479		749
	Maximum	12										3.6

Calendar Year

STATE OF COLORADO
DIVISION OF WATER RESOURCES
OFFICE OF STATE ENGINEER

Sta. No. 07114000
Rating Table Used

Day.	APR. Gage height	APR. Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUG. Gage height	AUG. Discharge	SEPT. Gage height	SEPT. Discharge
1	.96	7.8	1.39	34	1.26	25	1.12	17	1.09	15	.93	7.8
2	1.07	12	1.38	32	1.24	23	1.11	16	1.07	14	.92	7.4
3	1.06	12	1.37	32	1.27	25	1.10	16	1.06	13	.92	7.4
4	1.07	12	1.34	29	1.28	26	1.09	16	1.05	13	.92	7.4
5	1.03	11	1.31	26	1.28	26	1.09	16	1.05	13	.92	7.4
6	.99	8.8	1.30	25	1.30	28	1.08	16	1.04	12	.91	7.1
7	1.04	11	1.29	25	1.32	29	1.07	15	1.02	12	.89	6.8
8	1.11	14	1.30	25	1.34	31	1.07	15	1.02	12	.88	6.5
9	1.16	16	1.32	27	1.37	33	1.06	15	1.02	12	.87	6.2
10	1.19	18	1.34	28	1.36	32	1.03	13	1.06	14	.89	6.8
11	1.19	18	1.34	28	1.35	30	1.02	13	1.08	15	.91	7.4
12	1.14	15	1.32	27	1.33	30	1.01	12	1.06	15	.91	7.4
13	1.16	16	1.32	27	1.29	27	1.01	12	1.04	14	.95	8.8
14	1.16	16	1.32	27	1.27	25	1.00	12	1.03	14	.92	7.8
15	1.17	17	1.29	25	1.25	24	1.02	13	1.02	13	.89	6.8
16	1.17	17	1.27	23	1.23	23	1.01	12	1.02	13	.87	6.2
17	1.17	17	1.24	20	1.20	21	0.98	11	1.05	14	.86	5.9
18	1.19	18	1.23	20	1.19	20	.96	10	1.08	16	.85	5.6
19	1.22	20	1.21	19	1.18	20	S	12	1.04	14	.86	5.9
20	1.21	19	1.22	20	1.17	18	S	17	1.05	14	.84	5.4
21	1.17	17	1.22	20	1.17	18	1.15	18	1.02	12	.85	5.6
22	1.16	17	1.21	19	1.17	18	1.18	20	1.00	11	.86	5.9
23	1.17	17	1.17	17	1.16	17	1.14	18	.98	10	S	11
24	1.19	19	1.16	17	1.22	21	1.15	18	.98	10	.92	6.8
25	1.19	19	1.19	19	1.18	19	1.15	18	.95	8.5	.91	6.5
26	1.20	[illegible]	1.20	[illegible]	1.15	[illegible]	1.17	20	.93	[illegible]	.90	6.2
27	1.22	[illegible]	1.20	[illegible]	1.14	[illegible]	1.19	21	.93	[illegible]	.90	6.2
28	1.32	[illegible]	1.20	[illegible]	1.13	[illegible]	1.16	19	.94	[illegible]	.90	6.2
29	1.30	[illegible]	1.20	[illegible]	1.12	[illegible]	1.14	18	.93	7.8	.90	6.2
30	1.39	[illegible]	1.21	21	1.12	16	1.12	17	.93	7.8	.88	5.4
31	XX	XXX	1.23	[illegible]	XX	XXX	1.11	16	.93	7.9	XX	XXX
	[illegible]		735		694		482		271		204	
	[illegible]		23.7		23.1		15.5		11.96		6.8	
	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	
	[illegible]		34		32		21		16		11	

Quarter: 4th, 3rd, 2nd, 1st
Computed
Checked
Dis.appld.
Dis.check
G.H.copd.
G.H.check
Water Ye

HUERFANO Creek near MANZANARES CROSSING near REd[illegible]

Daily Gage Height, in Feet, and Discharge in Second-Feet for the Year Ending September 30, 1977

Drainage area 73 square miles. Water stage recorder STEVENS A-35 CONTIN[illegible]

Max. Discharge 20,000 Sec. ft. at ___ ft. on July 27

Max. G. H. ___ ft. at ___ on July ___ G. H. ___ ft.

Min. Daily Discharge 4.8 sec.-ft. on DEC 20

[illegible] July 27 1977

STATION LOST JULY 27

Day	OCT. Gage height	OCT. Discharge	NOV. Gage height	NOV. Discharge	DEC. Gage height	DEC. Discharge	JAN. Gage height	JAN. Discharge	FEB. Gage height	FEB. Discharge	MAR. Gage height	MAR. Discharge
1	a	17	1.35	15	a	19	a	10	a	12	a	9.0
2		16	1.34	14		17		11		11		8.[illegible]
3		15	1.35	15		15		12		10		8.0
4		20	1.35	15		13		12		9.6		9.0
5		20	1.34	14		12		13		9.4		10
6		18	1.34	14		12		13		9.0		10
7	a	20	1.33	14		10		13		8.6		11
8	1.42	20	1.33	14		10		13		8.6		11
9	1.41	19	1.32	14		10		13		8.6		12
10	1.40	18	1.33	14		9.5		13		8.8		13
11	1.38	18	1.32	14		9.5		13		8.2		14
12	1.38	18	1.31	13		9.3		12		8.4		13
13	1.38	18	1.34	12		9.0		12		8.4		13
14	1.37	17	1.30	10		9.0		12		8.6		10
15	1.37	17	1.32	[illegible]		7.5		11		8.6		9.[illegible]
16	1.37	17	1.30	8.8		7.0		11		8.6		10
17	1.36	16	1.35	8.8		6.4		11		9.4		18
18	1.36	16	1.29	8.8		5.8		12		10		24
19	1.34	16	a	8.8		5.2		12		11		34
20	1.34	16		8.8		4.8		12		12		3[illegible]
21	1.34	16		8.8		5.0		12		14		[illegible]
22	1.34	16		8.8		5.6		12		15		2[illegible]
23	1.35	16		8.8		6.0		13		16		14
24	1.35	16		8.8		6.5		13		16		12
25	1.34	16		8.8		7.0		13		14		11
26	1.34	16		8.8		7.5		13		12		11
27	1.35	16		[illegible]		8.0		13		11		17
28	1.40	18		8.8		8.4		12	a	10		[illegible]
29	1.37	16		12		8.8		12	XX	XXX		18
30	1.37	16	d	21		9.4		12	XX	XXX		14
31	1.36	16	XX	XXX	a	9.8	a	12	XX	XXX	a	[illegible]

Calendar Year 1976		OCT.	NOV.	DEC.	JAN.	FEB.	MAR.
8510	Total	530	348	284	379	296	455
23.25	Mean	17.1	11.6	9.2	12.2	10.6	14.7
16900	Run-off in acre-feet	1049	694	562	748	586	901
	Maximum						
	Minimum						

STATE OF COLORADO
DIVISION OF WATER RESOURCES
OFFICE OF STATE ENGINEER

Sta. No. 07111000
Rating Table Used #13, 3-7-74

Day.	APR. Gage height	APR. Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUG. Gage height	AUG. Discharge	SEPT. Gage height	SEPT. Discharge
1	a	5.2	1.48	25	1.54	30	a	19	a	21	a	9.8
2		5.8	1.52	28	a	30		20		20		9.6
3		7.0	1.55	30		31		20		19		9.0
4		6.5	1.55	30		31		19		18		9.6
5		6.0	a	30		32		19		17		9.4
6		6.4		27		33		19		17		8.4
7		7.4		27		33		19		17		8.2
8		8.5		27		34		19		16		8.2
9		10		31		35		19		16		8.0
10		11		32		35		19		20		8.6
11		12		32		34		19		24		9.0
12		12		32		32		19		25		10
13		13		31		30		19		26		11
14		13		30		27		19		25		10
15		11		28		23		20		23		9.6
16		14		27		23		19		22		8.4
17		15	a	23		23		18		24		7.8
18		15	1.47	21		23		17		26		7.2
19		16	1.47	21		23		19		25		6.9
20		15	1.47	21		23		24		23		6.7
21		14	1.47	21		23		26		22		9.0
22		14	1.44	19		22		28		20		11
23		14	1.42	18		22		26		19		13
24		15	1.42	18		25		26		18		12
25		16	1.42	18		25		28		16		10
26		17	1.43	18		24		27		15		9.8
27		18	1.42	18		23		3600		14		9.4
28	a	19	1.40	17		[illegible]		[illegible]		13		[illegible]
29	a	20	1.39	16		21		24		11		7.2
30	a	23	1.40	17	a	20	a	23	a	10	a	9.0
31	XX	XXX	1.45	20	XX	XXX		22		10	XX	XXX
	390		751		812		42140		509		276	9344
	12.7		24.2		27.1		136.7		19.1		9.2	25.6
	756		1187		1608		8385		1172		546	18501

Quarter: 4th, 3rd, 2nd, 1st — Computed, Checked, Date
Quarter: 4th, 3rd, 2nd, 1st — Dis.appld., Dis.check, Date
Quarter: 4th, 3rd, 2nd, 1st — G.H.comp., G.H.check, Date
Water Year 1977

ARKANSAS Creek near NEPESTA, COLO.

Daily Gage Height, in Feet, and Discharge in Second-Feet for the Year Ending September 30, 1977

Drainage area 9,345 square miles. Water stage recorder STEVENS A-35

Max. Discharge 3800 Sec. ft. at 730 AM on Aug 19, 1977 G. H. 6.11 ft.

Max. G. H. 3800 ft. at 730 AM on Aug 19, 77 Min. Daily Discharge 110 sec.-ft. on [illegible]

Day	OCT. Gage height	OCT. Discharge	NOV. Gage height	NOV. Discharge	DEC. 1976 Gage height	DEC. 1976 Discharge	1977 JAN. Gage height	JAN. Discharge	FEB. Gage height	FEB. Discharge	MAR. Gage height	MAR. Discharge
1	4.53	568	4.40	384	5.12	b 391	4.32	[illegible]	4.38	[illegible]	4.34	[illegible]
2	4.37	465	4.38	365	5.00	b 401	4.33	[illegible]	4.40	[illegible]	4.37	[illegible]
3	4.33	437	4.44	391	4.59	[illegible]	4.33	[illegible]	4.39	[illegible]	4.37	279
4	4.41	[illegible]	4.52	437	4.51	[illegible]	4.32	[illegible]	4.35	[illegible]	4.36	[illegible]
5	4.44	[illegible]	4.66	[illegible]	4.47	[illegible]	4.30	[illegible]	4.34	[illegible]	4.31	[illegible]
6	4.58	631	4.73	583	4.46	[illegible]	4.28	[illegible]	4.33	[illegible]	4.21	[illegible]
7	4.55	[illegible]	4.72	[illegible]	4.44	[illegible]	4.27	[illegible]	4.35	[illegible]	4.28	[illegible]
8	4.52	[illegible]	4.70	[illegible]	4.42	[illegible]	4.27	[illegible]	4.35	[illegible]	4.32	[illegible]
9	4.51	575	4.61	[illegible]	4.42	[illegible]	4.56	[illegible]	4.35	[illegible]	4.28	[illegible]
10	4.55	601	4.54	[illegible]	4.41	[illegible]	4.91	[illegible]	4.35	[illegible]	4.27	[illegible]
11	4.57	615	4.50	[illegible]	4.39	311	4.93	[illegible]	4.37	[illegible]	4.35	[illegible]
12	4.55	599	4.48	410	4.37	300	4.86	[illegible]	4.38	[illegible]	4.40	[illegible]
13	4.53	[illegible]	4.54	[illegible]	4.35	[illegible]	4.83	[illegible]	4.38	[illegible]	4.42	[illegible]
14	4.55	591	4.43	[illegible]	4.37	[illegible]	4.78	[illegible]	4.37	299	4.38	[illegible]
15	4.55	[illegible]	4.31	311	4.40	[illegible]	4.78	[illegible]	4.37	[illegible]	4.39	[illegible]
16	4.50	[illegible]	4.29	300	4.41	[illegible]	4.74	[illegible]	4.37	299	4.36	250
17	4.48	[illegible]	4.29	[illegible]	4.37	311	4.76	[illegible]	4.36	[illegible]	4.34	240
18	4.42	[illegible]	4.29	[illegible]	4.33	[illegible]	4.79	538	4.36	288	4.34	[illegible]
19	4.46	[illegible]	4.31	317	4.31	[illegible]	4.71	472	4.35	[illegible]	4.34	[illegible]
20	4.48	[illegible]	4.31	317	4.23	[illegible]	4.40	[illegible]	4.34	[illegible]	4.33	[illegible]
21	4.50	[illegible]	4.32	[illegible]	4.22	[illegible]	4.35	[illegible]	4.31	[illegible]	4.31	[illegible]
22	4.50	[illegible]	4.32	[illegible]	4.25	[illegible]	4.35	[illegible]	4.29	[illegible]	4.30	[illegible]
23	4.52	[illegible]	4.32	[illegible]	4.29	[illegible]	4.38	[illegible]	4.28	[illegible]	4.30	[illegible]
24	4.48	[illegible]	4.32	[illegible]	4.37	[illegible]	4.38	[illegible]	4.27	[illegible]	4.30	[illegible]
25	4.40	[illegible]	4.34		4.42	[illegible]	4.35	[illegible]	4.28	[illegible]	4.26	[illegible]
26	4.40		4.35		4.37		4.33		4.32		4.24	[illegible]
27	4.47		4.39		4.38		4.34		4.31		4.20	[illegible]
28	4.45	[illegible]	5.12	b 317	4.39	[illegible]	4.34	[illegible]	4.33	[illegible]	4.15	[illegible]
29	4.45	[illegible]	5.33	[illegible]	4.36	[illegible]	4.30	[illegible]	XX	XXX	4.10	[illegible]
30	4.43	[illegible]	5.25	b 316	4.34	[illegible]	4.31	245	XX	XXX	4.11	[illegible]
31	4.40	391	XX	XXX	4.33	[illegible]	4.34	[illegible]	XX	XXX	4.16	[illegible]

Calendar Year 1976		OCT.	NOV.	DEC.	JAN.	FEB.	MAR.
23392	Total	16258	11780	9709	[illegible]	[illegible]	[illegible]
21	Mean	524	393	313	362	[illegible]	[illegible]
3116	Run-off in acre-feet	32191	23324	19300	[illegible]	15520	[illegible]
	Maximum	631	583	410	672	305	300
	Minimum	391	300	230	240	245	115

STATE OF COLORADO
DIVISION OF WATER RESOURCES
OFFICE OF STATE ENGINEER

Sta. No. 07117000
Rating Table Used [illegible] 2-14-75

APR. Gage height	APR. Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUG. Gage height	AUG. Discharge	SEPT. Gage height	SEPT. Discharge	Day
4.17	144	4.23	272	4.26	210	3.97	136	S	72.5	3.53	88	1
4.20	160	4.32	329	4.24	196	4.07	173	4.05	240	3.42	65	2
4.16	144	4.34	329	4.67	444	4.00	144	3.62	76	S	131	3
4.15	140	4.42	347	4.67	444	3.88	100	3.45	47	3.48	79	4
4.15	140	4.50	372	4.73	486	3.89	10[illegible]	3.38	40	3.36	54	5
4.12	129	4.58	424	4.75	500	3.97	129	3.40	42	3.35	52	6
4.08	115	4.42	323	4.76	508	4.20	220	S	128	3.42	63	7
4.05	122	4.35	283	4.92	615	4.24	235	3.62	76	3.45	70	8
4.02	122	4.38	300	5.05	698	4.26	240	S	604	3.45	70	9
4.02	122	4.48	335	5.37	998	4.23	220	S	1030	3.46	67	10
4.01	122	4.70	424	5.45	1080	4.18	191	S	430	3.46	67	11
4.04	144	4.70	424	5.50	1140	4.08	151	3.90	173	3.45	57	12
4.32	261	4.71	424	5.30	896	4.03	125	3.53	62	3.45	57	13
4.42	300	4.43	305	S	954	4.03	125	S	70	3.56	74	14
4.48	317	4.35	329	5.04	664	4.03	125	3.68	103	3.78	133	15
5.14	794	4.36	341	4.87	552	4.05	136	S	477	3.83	148	16
4.95	607	4.59	493	4.91	591	4.01	122	S	201	3.82	144	17
4.82	486	4.59	493	4.90	591	3.98	115	S	358	3.80	136	18
S	1011	4.49	421	4.92	615	3.93	100	S	1162	3.77	125	19
5.60	1140	4.56	472	4.87	583	3.83	67	S	1011	3.77	125	20
5.42	916	4.78	639	4.77	522	3.77	62	S	1265	3.72	106	21
5.05	698	4.61	486	4.70	479	S	724	S	532	3.74	112	22
4.84	631	4.33	294	4.40	300	5.00	723	4.41	508	3.74	112	23
4.81	664	4.21	225	4.21	205	4.47	329	a	164	3.73	109	24
4.75	680	4.09	160	4.20	210	S	534	a	(118)	3.65	86	25
4.64	545	3.99	115	4.18	205	S	1980	S	98	3.58	70	26
4.63	530	4.01	122	3.99	133	S	653	S	88	3.60	74	27
4.58	486	4.03	129	3.92	112	S	507	3.98	256	3.66	86	28
4.54	458	4.20	196	3.97	133	S	492	3.78	164	3.69	94	29
4.46	410	4.35	272	3.98	140	4.00	140	3.71	140	3.67	86	30
XX	XXX	4.35	272	XX	XXX	3.83	97	3.59	105	XX	XXX	31

APR.	MAY	JUNE	JULY	AUG.	SEPT.	Water Year 1977
11538	11831	15204	9198	10491	2740	12486[illegible]
385	382	507	297	338	91	342
22885	23465	30[illegible]	18245	20772	5435	24733[illegible]
1140	639	1140	723	1265	148	1265
[illegible]	115	112	62	40	52	40

Quarter / Computed / Checked / Date; Dis. appld. / Dis. check; G.H. copd. / G.H. check

ARKANSAS Creek near Below CATLIN DAM near POWL

Daily Gage Height, in Feet, and Discharge in Second-Feet for the Year Ending September 30, 1977

Drainage area 10,901 square miles. Water stage recorder STEVENS A-35

Max. Discharge 5630 Sec. ft. at 0300 on 10 Aug 09. G. H. 5.90 ft.
Max. G. H. 5.90 ft. at 0300 on Aug. 10 Min. Daily Discharge 47 sec.-ft. on 21 July

Day.	OCT. Gage height	OCT. Discharge	NOV. Gage height	NOV. Discharge	DEC. 1976 Gage height	DEC. 1976 Discharge	1977 JAN. Gage height	1977 JAN. Discharge	FEB. Gage height	FEB. Discharge	MAR Gage height	MAR Discha
1	363 2.95	+22 510	2.74	+13 335	2.98	-02 383	a	+16 290	a	310	a	+12
2	2.68	+16 320	2.75	+12 335	3.00	-03 388		+15 290		305		
3	2.69	325	2.76	+11 335	358 3.00	-04 383	a	+15 292		280		
4	2.81	388	2.76	+10 330	2.96	-02 372	360 2.67	+15 310	362 a	+12 270		+12
5	2.73	345	356 2.76	+11 325	2.92	+01 366	2.67	310	2.67	280		+11
6	2.83	400	2.75	+9 320	2.89	+4 366	2.65	300	2.66	292		
7	2.89	435	2.74	+8 320	2.87	+6 366	2.62	289	2.61	288		
8	354 2.97	+16 484	2.74	+8 320	2.84	+9 366	2.67	+15 310	2.61	288		
9	2.92	+16 453	2.74	+8 325	2.81	+11 361	a	+16 560	363 2.60	+12 281		
10	2.90	+17 447	2.74	+8 325	2.78	+14 361	3.47	877	2.63	+5 288	366 a	+11
11	2.88	+18 441	2.72	+6 320	2.75	+16 356	3.43	866	2.62	+3 300	2.50	+12
12	2.86	+18 429	2.72	+6 320	2.72	+19 356	3.36	+16 778	2.60	+13 305		+13
13	2.84	+19 423	2.72	+13 325	2.69	+1 350	a	+17 704	2.62	+14 315		+13
14	2.82	+6 417	2.72	+7 325	2.66	+24 350		640	2.63	315		+14
15	2.79	+20 400	2.71	+6 325	2.63	+26 345		600	2.64	310		+5
16	2.77	+21 394	2.71	+4 325	2.62	+28 350		+17 593	2.64	315		+5
17	2.75	+22 388	2.71	+5 330	359 2.54	+30 320		+13 590	361 2.69	+14 310	2.18	+5
18	2.72	+22 372	2.71	+5 330	2.53	+28 305		602	2.67	305		+6
19	2.71	+23 372	357 2.72	+6 340	2.52	+26 292		580	2.65	+14 296		+6
20	2.70	+23 366	2.71	+5 330	2.51	+24 280		+20 500	2.64	+13 288		+6
21	2.68	+24 361	2.73	+3 330	2.49	+22 264		+17 440	2.64	+13 276	2.30	+6
22	355 2.67	+25 361	2.76	+2 340	2.48	+20 253		355	2.59	+12 260	2.37	+22
23	2.67	+25 361	2.78	+0 340	2.51	+19 260	a	+19 300	2.56	253	367 2.36	+22
24	2.67	+25 361	2.81	+9 350	2.55	+19 276	361 a	+20 290	365 2.54	+12 246	a	+21
25	2.68	+23 356	2.82	+7 345	a	+0 290		290	2.50	+12 246		+20
26	2.68	+23 356	2.84	+6 350		+0 320		280	a	250		+6
27	2.69	+1 350	2.86	+4 350		+0 322		280		250		+6
28	2.70	+19 345	2.91	+3 361		+0 330		290	a	+12 245	a	+6
29	2.72	+7 345	2.92	+1 366		+0 320		280	XX	XXX	2.17	+6
30	2.73	+15 340	2.95	a 378		+0 301		290	XX	XXX	2.17	+6
31	2.74	+14 340	XX	XXX	a	+0 290	a	300	XX	XXX	368 2.1	+12
179433	Total	11,985		10,050		10,242		33,987		7,970		5,7
490	Mean	387		335		330		1096		285		186
	Run-off in acre-feet	23769		19,931		20312		67403		15,80		11,3
	Maximum	510		378		388		877		315		24

Calendar Year 1976

STATE OF COLORADO
DIVISION OF WATER RESOURCES
OFFICE OF STATE ENGINEER

Sta. No. 07119700

Rating Table Used

Day	APR. Gage height	APR. Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUG. Gage height	AUG. Discharge	SEPT. Gage height	SEPT. Discharge
1	2.20	+13 148	2.28	+20 187	a	+21 190	2.05	+12 111	a	+03 660	a	+47 66
2	2.22	+12 150	373 2.09	+16 128	a	+21 185	2.19	+08 133	392 a	−02 205	397 a	+47 60
3	2.22	+12 150	2.07	+19 131		+20 180	2.16	+07 124		+04 63	1.41	+36 64
4	2.19	+11 138	2.07	+21 135		+20 260	2.00	+3 87		+2 50	1.55	+16 84
5	2.17	+10 133	374	+24 212		+20 290	387 1.90	+31 69		+19 50	1.48	+5 72
6	2.15	+09 126	2.42	+28 260		+19 330	2.16	+2 113		+27 50	a	+14 56
7	361 2.11	+08 115	2.27	+21 218	382	+19 370	2.15	+30 111	a	+34 90	a	+13 54
8	2.07	+06 104	2.27	+35 232		+15 400	S	V 258	393 1.95	+42 160	a	+12 62
9	2.04	+04 95	375 2.12	+38 192	383 a	+17 430	2.28	+10 160	S	V 642	398 a	+42 64
10	2.02	+03 90	2.11	+35 181	2.99	+13 472	2.31	+11 170	S	V 2304	a	+41 62
11	2.00	+01 87	2.34	+31 242	3.19	+07 586	2.21	+12 148	S	V 1831	a	+16 58
12	1.99	−01 79	2.48	+28 284	3.31	+05 648	388 2.12	+13 128	2.93	0 366	a	+19 54
13	370 2.01	−02 81	376 2.31	+25 212	384 3.19	+01 530	1.97	+05 85	S	V 158	1.10	+1 132
14	2.07	+01 95	2.22	+26 187	3.17	+02 524	389 1.93	+03 76	a	−20 60	1.30	+3 58
15	2.14	+04 113	2.07	+7 150	S	+03 468	1.92	+2 75	394 a	−31 90	1.56	+5 100
16	S	+03 355	377 2.26	+28 205	2.62	+04 246	1.99	−01 77	S	V 174	399 1.85	+58 173
17	S	+11 310	2.46	+22 253	2.45	+20 195	1.98	−01 76	2.44	+07 195	1.81	+56 158
18	2.37	+14 195	2.44	+16 225	2.47	+07 205	1.89	−06 58	395 S	+26 449	1.66	+31 117
19	S	+19 658	378 2.20	+17 160	2.50	+15 218	1.88	−06 57	S	+29 1631	1.53	+53 92
20	S	+51 922	2.26	+07 148	2.52	+07 236	390 1.83	−08 49	S	+52 1293	1.47	+21 79
21	327	+24 769	2.52	+15 215	2.35	+11 181	1.82	−08 47	S	+55 1860	1.56	+49 90
22	2.87	+28 498	2.30	+13 148	2.27	+12 162	S	V 744	S	+38 1619	1.70	+18 113
23	2.51	+31 310	379 2.13	+01 106	2.25	+13 160	S	V 448	S	+40 762	1.60	+12 92
24	2.58	+34 361	1.99	+06 90	385 2.12	+15 133	2.15	+13 113	S	+42 282	1.64	+14 95
25	371 2.15	+37 310	1.87	+11 79	2.36	+16 195	S	V 134	S	+41 152	1.54	+13 78
26	2.29	+36 239	380	+15 110	2.41	+15 212	S	V 1550	396 a	+46 110	1.45	+11 69
27	2.24	+35 222	2.19	+17 155	2.27	+14 169	S	V 638		+36 90	1.40	+39 53
28	372 2.40	+34 276	2.11	+19 140	2.05	+14 115	S	V 150		+46 190	1.48	+38 62
29	2.37	+29 246	2.13	+20 162	2.09	+13 111	391 a	+21 120		+46 150	1.56	+36 71
30	2.40	+25 249	381 a	+22 190	382 2.05	+13 113	a	+7 90		+47 120	400 1.54	+34 65
31	XX	XXX	a	+20 230	XX	XXX	a	+09 82	a	+47 80	XX	XXX
	7617		5567		8513		6284		15,942		2446	
	254		180		284		203		514		82	
	15106		11,040		16,893		12,462		31616		4851	

Quarter: 4th, 3rd, 2nd, 1st — Computed, Checked, Date

Quarter: 4th, 3rd, 2nd, 1st — Dis.appld., Dis.check, Date

Quarter: 4th, 3rd, 2nd, 1st — G.H.copd., G.H.check, Date

Water Year 1977

126,365
346
250,607

ARKANSAS Creek near LA JUNTA, COLO.

Daily Gage Height, in Feet, and Discharge in Second-Feet for the Year Ending September 30, 1977

Drainage area 12,210 square miles. Water stage recorder STEVENS A-35

Max. Discharge 1310 Sec. ft. at 1:30AM on Aug 19 G. H. 8.02 ft.
Max. G. H. 8.02 ft. at 1:30AM on Aug 19 Min. Daily Discharge 1.4 sec.-ft. on SEPT 9

[illegible]

Day.	OCT. Gage height	OCT. Discharge	NOV. Gage height	NOV. Discharge	DEC. 1976 Gage height	DEC. 1976 Discharge	1977 JAN. Gage height	JAN. Discharge	FEB. Gage height	FEB. Discharge	MAR Gage height	MAR Discharge
1	5.53	598	4.50	51	4.77	72	4.96	174	5.20	208	4.38	[illegible]
2	5.33	429	4.44	37	4.54	28	4.96	195	5.25	227	4.40	[illegible]
3	5.21	350	4.46	40	4.42	19	5.00	171	5.21	204	4.39	[illegible]
4	5.23	363	4.46	39	4.42	18	5.02	195	5.26	217	4.38	[illegible]
5	5.20	344	4.54	51	4.42	18	5.09	187	5.20	195	4.39	[illegible]
6	5.19	337	4.49	42	4.42	18	5.01	162	5.14	174	4.54	[illegible]
7	5.28	396	4.55	51	4.42	18	4.96	213	4.58	28	4.77	[illegible]
8	5.34	436	S	61	4.41	17	5.17	208	4.36	15	4.51	[illegible]
9	5.41	[illegible]	4.43	29	4.42	18	5.10	187	4.39	16	4.61	[illegible]
10	a	(370)	4.55	45	4.42	18	S	190	4.40	16	4.73	[illegible]
11	[illegible]	(334)	4.55	45	4.42	18	6.04	185	4.41	17	4.92	[illegible]
12	[illegible]	(376)	4.50	36	4.41	18	6.08	180	4.41	17	5.04	[illegible]
13	5.26	(389)	4.59	49	4.40	18	6.01	190	4.42	17	4.57	[illegible]
14	5.22	(363)	4.58	45	4.38	18	5.98	170	4.41	16	4.55	[illegible]
15	[illegible]	(363)	4.47	28	4.38	20	5.94	200	4.44	18	4.60	[illegible]
16	5.17	(339)	4.41	23	4.38	20	5.94	185	4.44	18	4.70	[illegible]
17	a	(422)	4.41	23	4.37	20	5.92	190	4.43	16	4.75	[illegible]
18	5.26	[illegible]	4.41	23	4.37	20	6.07	205	4.43	16	4.57	[illegible]
19	5.05	275	4.39	20	4.37	19	6.01	205	4.41	14	4.77	[illegible]
20	5.10	300	4.38	20	4.36	18	5.93	200	4.42	14	4.60	[illegible]
21	5.07	290	4.37	20	4.35	17	S	200	4.44	18	4.69	[illegible]
22	5.07	290	4.36	20	4.36	17	5.12	217	4.45	14	4.58	[illegible]
23	5.07	290	4.35	19	4.35	16	5.15	227	4.43	13	4.58	[illegible]
24	5.08	290	4.35	19	4.31	14	5.16	231	4.43	12	4.60	[illegible]
25	5.08	[illegible]	4.36	20	4.29	13	5.14	217	4.43	13	4.60	[illegible]
26	5.09	[illegible]	4.40	21	4.30	13	5.10	195	4.42	13	4.59	[illegible]
27	5.24	[illegible]	4.64	26	4.26	11	5.19	231	4.40	12	4.59	[illegible]
28	5.25	[illegible]	4.82	91	4.25	10	5.25	255	4.39	12	4.57	[illegible]
29	5.27	[illegible]	5.38	322	S	47	5.22	236	XX	XXX	4.54	[illegible]
30	5.26	363	4.96	[illegible]	5.02	179	5.23	236	XX	XXX	4.54	[illegible]
31	S	147	XX	XXX	4.88	144	5.24	236	XX	XXX	4.54	[illegible]

Calendar Year 1976		OCT.	NOV.	DEC.	JAN.	FEB.	MAR
54524	Total	11023	1446	914	6313	1570	920
149	Mean	356	48	29	204	56	30
[illegible]	Run-off in acre-feet	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	Maximum	598	322	179	[illegible]	[illegible]	[illegible]
	Minimum	[illegible]	17	10	162	[illegible]	[illegible]

STATE OF COLORADO
DIVISION OF WATER RESOURCES
OFFICE OF STATE ENGINEER

Sta. No. 07123000

Rating Table Used ____________

APR. Gage height	APR. Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUG. Gage height	AUG. Discharge	SEPT. Gage height	SEPT. Discharge	Day.
4.54	16	5.15	231	4.41	14	4.41	14	4.55	25	4.19	18	1
.52	16	4.98	154	4.40	14	4.41	14	S	41	4.21	20	2
.52	16	4.80	88	4.39	14	4.41	14	4.67	36	4.20	18	3
4.49	14	4.70	58	4.39	15	4.41	14	4.55	24	4.20	18	4
.50	14	4.50	26	4.49	20	4.44	14	4.41	16	4.20	18	5
4.52	15	4.69	51	4.70	47	4.47	16	4.36	15	4.20	18	6
.53	16	4.65	42	4.69	47	4.44	15	4.37	16	4.19	16	7
.52	15	4.50	23	4.72	88	4.44	16	4.35	15	4.18	14	8
4.53	16	4.46	20	4.80	78	4.53	20	S	35	4.08	6.4	9
.55	16	4.46	20	4.87	91	4.43	16	S	1352	4.08	6.6	10
4.55	16	4.45	18	5.26	231	4.62	34	S	165	4.12	7.6	11
.52	15	4.58	27	5.70	485	4.81	67	S	153	4.14	8.2	12
4.52	15	4.76	54	5.68	464	4.80	67	4.73	72	4.14	8.4	13
.54	18	4.71	43	5.50	344	4.76	62	4.46	27	4.13	8.4	14
.68	32	4.52	22	5.57	389	4.72	54	4.42	24	4.12	8.4	15
4.57	26	4.44	18	5.33	255	4.81	72	S	381	4.14	9.3	16
S	218	4.42	18	4.98	116	4.74	54	S	219	4.12	8.6	17
4.97	136	4.58	30	S	296	4.76	56	S	283	4.10	8.2	18
.63	58	4.55	27	5.17	195	4.75	54	S	755	4.10	8.2	19
.77	720	4.72	54	5.03	147	4.78	58	S	300	4.10	8.2	20
5.85	848	4.88	97	4.92	100	4.78	58	S	356	4.10	8.2	21
.55	485	4.94	119	4.68	40	S	305	5.01	191	4.09	8.0	22
5.33	306	4.75	67	4.60	29	S	275	4.94	166	4.08	7.8	23
.29	255	4.65	47	4.60	29	5.24	199	4.92	158	4.06	7.4	24
.24	204	4.50	27	4.55	24	S	382	4.93	162	4.04	6.4	25
5.07	158	4.48	26	4.53	22	S	260	4.78	113	4.07	7.4	26
.77	80	4.45	20	4.55	23	S	410	4.41	30	4.11	8.0	27
4.49	39	4.41	18	4.49	18	5.39	344	S	96	4.11	8.0	28
.70	75	4.52	22	4.40	14	S	85	4.58	43	4.11	8.0	29
S	499	4.45	15	4.41	14	S	226	4.47	43	4.11	8.0	30
XX	XXX	4.43	15	XX	XXX	4.72	58	4.25	20	XX	XXX	31
4357		1497		3663		3363		5332		314		40718
145		48		122		108		172		10.5		112
[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]
[illegible]		[illegible]		[illegible]		440		[illegible]				

Quarter	Computed	Checked	Date
4th			
3rd			
2nd			
1st			

Quarter	Dis.appld.	Dis.check	Date
4th			
3rd			
2nd	LR		
1st			

Quarter	G.H.copd.	G.H.check	Date
4th			
3rd			
2nd	LR	JJ	
1st			

Water Year 1977

PURGATOIRE ~~Creek near~~ TRINIDAD, COLO.

Daily Gage Height, in Feet, and Discharge in Second-Feet for the Year Ending September 30, 1977

Drainage area ______ square miles. Water stage recorder ______

Max. Discharge 2093 Sec. ft. at 1600 hrs on July 25 G. H. 4.93 ft.

Max. G. H. 4.93 ft. at 1600 hrs on July 25 Min. Daily Discharge 2.3 sec.-ft. on Nov. 27

Discharge … for "b" days

"S" – … shift

Day	OCT. Gage height	OCT. Discharge	NOV. Gage height	NOV. Discharge	DEC. Gage height	DEC. Discharge	JAN. Gage height	JAN. Discharge	FEB. Gage height	FEB. Discharge	MAR. Gage height	MAR. Discharge
1	1.96	-.23 40	2.04	-.49 23	1.51	-.31 4.0	1.71	b 11	[647] 1.70	b 10	1.71	b 11
2	1.92	-.23 40	2.04	23	1.65	b 9.2	1.71	11	1.71	11	[649] 1.75	-.4 13
3	1.92	-.23 36	2.06	25	1.83	21	1.72	11	1.65	8.3	1.63	7.5
4	2.12	-.23 60	[635] 2.04	-.49 22	1.87	25	1.75	12	1.60	6.7	1.63	7.[illegible]
5	[633] 1.89	-.23 34	2.03	22	1.86	24	1.77	14	1.60	7.1	1.67	10
6	1.88	-.24 31	2.02	21	1.83	22	1.74	b 12	1.66	10	1.68	11
7	1.91	-.25 33	2.01	21	1.79	19	[640] 1.70	9.7	1.67	11	1.76	b 17
8	1.89	-.25 31	2.00	20	1.84	23	1.67	b 8.8	1.65	11	1.81	.28 21
9	1.88	-.26 29	1.98	18	1.90	29	1.65	8.3	1.70	14	1.79	.27 2[illegible]
10	1.88	-.26 29	1.98	18	1.87	26	1.70	11	1.75	18	1.77	.26 20
11	1.86	-.28 25	1.97	-.49 18	1.75	17	1.73	13	1.80	23	S	.25 19
12	1.85	-.30 23	1.98	b 21	1.68	13	1.75	14	1.80	24	S	.24 2[illegible]
13	1.85	-.32 21	1.85	12	1.75	18	1.76	b 15	1.75	21	S	.23 27
14	1.86	-.34 21	1.84	12	[638] 1.74	17	[641] 1.74	-.32 14	1.72	19	S	.22 24
15	1.84	-.36 18	1.90	16	1.75	17	1.70	b 11	1.58	14	S	.21 20
16	1.85	-.38 17	[636] 1.82	12	1.74	16	1.71	12	[648] 1.67	-.20 16	[650] 1.75	-.20 2[illegible]
17	1.88	-.40 18	1.75	8.3	1.77	18	1.70	11	1.77	25	1.72	21
18	1.91	-.42 18	1.90	18	1.77	18	1.71	12	1.70	18	S	-.20 15
19	1.94	-.43 20	1.95	21	1.75	16	1.73	12	1.70	18	S	15
20	1.92	-.44 19	1.90	18	1.72	14	1.74	12	1.66	14	S	15
21	[634] 1.96	-.44 22	1.88	18	1.72	14	[642] 1.74	12	1.64	12	S	18
22	1.97	-.44 21	1.84	16	1.70	12	1.78	14	1.70	15	S	16
23	1.98	-.44 22	1.80	14	1.69	12	1.80	16	1.53	6.7	1.66	-.22 15
24	2.03	-.45 25	1.70	8.8	1.74	14	1.75	12	1.57	8.3	1.68	-.23 16
25	2.01	-.45 24	1.74	11	1.75	15	[643] 1.63	6.3	1.57	8.3	1.68	16
26	2.05	-.46 26	1.65	b 7.5	1.75	15	1.62	b 6.7	1.65	9.7	1.68	16
27	2.07	-.46 28	1.46	-.34 2.3	1.85	21	1.67	b 9.7	1.49	[illegible]	1.69	16
28	S	✓ 24	1.59	-.32 6.0	1.80	17	[644] 1.67	[illegible]	1.56	b [illegible]	1.68	15
29	2.11	-.47 29	1.55	-.32 4.9	[639] 1.75	19	[645] 1.65	11	XX	XXX	S	11
30	2.05	-.49 24	[637] 1.49	-.31 3.5	1.77	15	[646] 1.67	8.8	XX	XXX	[651] S	-.25 7.4
31	2.03	-.49 [illegible]	XX	XXX	1.69	b 9.7	1.67	b 8.8	XX	XXX	S	✓ 1[illegible]

Calendar Year 1976		OCT.	NOV.	DEC.	JAN.	FEB.	MAR.
13000	Total	829	461.3	525	350	368.2	499
35.6	Mean	26.74	15.38	16.93	11.28	13.15	16.1
25,790	Run-off in acre-feet	1644.4	913.4	1031.3	692.6	729	989.6
	Maximum	60	[illegible]	29	16	[illegible]	[illegible]
	Minimum	17	2.3	4.0	6.3	[illegible]	[illegible]

STATE OF COLORADO
DIVISION OF WATER RESOURCES
OFFICE OF STATE ENGINEER

Sta. No. 07124500
Rating Table Used #16, 5-11-77

Day.	APR. Gage height	APR. Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUG. Gage height	AUG. Discharge	SEPT. Gage height	SEPT. Discharge
1	.67	-.29 11	2.12	-.38 41	2.08	-.34 41	1.41	+.23 31	S	V 393	1.64	+.50 105
2	S	V 8.1	2.12	-.38 41	[656] 2.17	-.34 52	1.40	+.23 30	S	47	1.61	+.50 96
3	[652] S	-.33 9	[654] 2.02	-.39 30	2.17	52	1.43	+.23 33	[661] S	+.63 44	S	V 133
4	S	7.8	1.98	26	2.28	67	1.58	+.32 48	1.03	+.60 32	S	V 86
5	S	13	1.99	27	2.29	69	S	+.30 40	S	V 48	S	V 105
6	.72	12	2.02	30	2.35	-.34 79	1.62	+.32 48	1.15	+.39 41	S	V 80
7	1.66	9	2.02	30	S	V 88	[659] 1.58	+.17 42	1.13	+.39 39	1.06	+.58 31
8	.71	11	2.01	-.37 29	S	V 58	1.44	+.16 27	1.09	+.59 36	.97	+.49 24
9	.68	10	1.90	-.35 21	1.65	+.08 40	S	+.16 29	S	V 28	.94	21
10	1.74	13	2.06	-.37 36	1.75	+.10 54	S	V 26	S	V 65	.98	25
11	.83	19	2.14	45	1.82	+.12 67	1.34	+.15 18	S	V 36	.96	23
12	1.84	20	2.16	47	1.95	+.13 92	1.40	+.15 23	1.17	+.59 39	.96	+.59 23
13	.78	16	2.17	48	1.90	+.09 85	1.29	+.14 14	1.13	35	S	+.60 72
14	.79	-.32 16	2.19	51	1.83	+.15 74	1.25	+.14 12	1.10	32	S	+.61 83
15	2.02	-.37 37	2.13	44	1.78	+.16 67	S	V 22	1.14	36	[664] a	+.62 50
16	.98	33	2.02	-.37 32	1.76	+.16 64	S	V 25	[662] S	+.55 162		30
17	1.89	25	[655] 1.92	-.36 24	[657] 1.73	+.16 60	1.33	+.07 14	S	352		30
18	.85	21	1.92	-.36 24	1.73	+.16 60	1.23	+.01 8.3	S	235		30
19	[653] 1.94	-.32 29	1.95	-.36 26	1.71	+.17 58	1.21	+.09 7.5	S	+.65 98		30
20	2.09	-.33 [illegible]	S	V 44	1.63	+.11 51	1.31	+.09 12	a	80		30
21	2.06	-.33 40	2.08	-.34 41	1.56	-.03 47	[660] S	+.08 70		72		25
22	1.92	-.31 25	1.88	22	1.51	+.07 42	S	V 192		65		25
23	.80	-.32 16	1.87	21	[658] 1.60	+.25 54	S	V 216		60		25
24	1.78	14	1.88	22	1.60	+.01 54	S	+.35 72		55		25
25	.80	16	1.92	25	1.67	+.03 64	S	V 211	a	49		25
26	.82	17	1.91	25	1.62	+.05 57	S	V 157	1.24	+.50 41		20
27	1.76	-.35 13	1.90	24	1.57	+.01 49	S	+.44 103	1.04	22		20
28	.92	-.36 [illegible]	1.86	21	1.47	-.01 37	1.53	+.45 74	1.00	19		[illegible]
29	2.04	-.37 34	1.98	31	1.45	-.02 35	S	V 71	S	37		[illegible]
30	2.05	-.37 [illegible]	1.98	31	1.44	-.03 34	S	V 52	1.60	96	a	20
31	XX	XXX	2.01	-.39 34	XX	XXX	1.17	-.20 48	[663] 1.65	+.50 108	XX	XXX
	598		992		1752		1776		[illegible]		1332	11975
	19.9		32.0		58.4		57.3		80.4		44.4	32.8
	[illegible]		1971		[illegible]		[illegible]		4944		2637	[illegible]
	[illegible]		37		[illegible]		216		[illegible]		133	[illegible]
	[illegible]		31		534		8.2		19		20	[illegible]

Quarter: 1st, 2nd, 3rd, 4th — Computed, Checked, Date — T. Sullivan
Quarter: 1st, 2nd, 3rd, 4th — Dis.appld., Dis.check, Date — T. Sullivan
Quarter: 1st, 2nd, 3rd, 4th — G.H.copd., G.H.check, Date — T. Sullivan

Water Year 1977

Purgatoire SUBJECT TO REVISION Creek near Nine-Mile Dam

Daily Gage Height, in Feet, and Discharge in Second-Feet for the Year Ending September 30, 19 77

Drainage area 2900 square miles. Water stage recorder STEVENS A-35

Max. Discharge 1350 Sec. ft. at 11:15 on 26 Feb 77 G. H. — ft.
Max. G. H. (DV) ft. at — on — Min. Daily Discharge 0 sec.-ft. on →
Oct 18-21, Nov. 21-30, Dec. 1-14, Jan. 1-4, Sept 20-30

Day	OCT. Gage height	OCT. Discharge	NOV. Gage height	NOV. Discharge	DEC. Gage height	DEC. Discharge	JAN. Gage height	JAN. Discharge	FEB. Gage height	FEB. Discharge	MAR. Gage height	MAR. Discharge
1		357 (2.2)		1.8		0		0		4.0		
2		22		2.8		1				10		
3		22		3.3		362 (0)				11		
4		42		2.8						371 (11)		
5		60		360 3.5				4.0		11		
6		80		3.3				4.0		14		
7		100		2.5				365 (5.6)		15		
8		260 (114)		2.1				5.8		16		
9		100		1.2						372 (16)		
10		80		0.8						16		374
11		70		1.7						16		
12		60		1.8				6.0		14		
13		50		1.0				366 (6.3)		14		
14		40		3.5		0		5.0		14		
15		30		3.0		5		3.0		12		
16		20		3.3		10		3.3		12		
17		10		3.9		363 (30)		367 (3.3)		11		
18		0		5.6		27				11		
19		0		361 7.2		24				10		
20		0		5.6		23				10		
21		0		0				368 (3.3)		9.6		
22		359 (0.05)						7.0		9.6		375
23		(0.05)						10		9.6		
24								369 (12)		373 (9.6)		
25								12		9.6		
26								12		9.0		
27								8.0		8.0		
28								5.0		8.0		
29								2.5		XXX		
30				0		369 (23)		2.1	XX	XXX		
31		(0.05)	XX	XXX		23		370 (2.1)	XX	XXX		376
Total		922.5		72		372		150		321		16
Mean		29.8		2.38		12		4.84		11.46		5.4
Run-off in acre-feet		1830		141.8		737.8		297.5		636.4		33
Maximum		114		7.2		30		12		16		

Calendar Year 1976

STATE OF COLORADO
DIVISION OF WATER RESOURCES
OFFICE OF STATE ENGINEER

Sta. No. 07126500

Rating Table Used

	APR.		MAY		JUNE		JULY		AUG.		SEPT.		Day.
	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	
		(3.7)		4.5		14		1.84		19		19	1
		(3.5)		4.5		12		1		18		18	2
		(3.9)		3.5		12		1.84		95		18	3
		(4.5)		2.6		11		5.6		39		18	4
		(3.7)		[379] (2.0)		10		[383] (0.1)		[386] 25		18	5
		[377] (3.5)		2.0		9.6				18		18	6
		3.1		2.0		7.0				40		18	7
		2.0		2.5		5.0				18		17	8
		1.8		2.5		3.0				17	[389]	17	9
		1.8		2.5		2.0				17		17	10
		1.7		2.0		2.0				16		17	11
		2.1		2.5		1.5				16		17	12
		1.7		3.0	[381]	1.2				16		18	13
		1.8		3.7		2.0	[384]	(0.1)		19		19	14
		2.6		21		4.0		0.1	[387]	19		19	15
		3.5		12		4.5				35		18	16
		3.2		10		1.8				37		18	17
		2.1		14		1.8				24		10	18
		2.6		20		2.0				17		5	19
		3.7		26		2.0		0.1		17		0	20
		[370] 3.5		32		2.0		0.9		17			21
		2.8		40		3.0		2.0		28			22
		2.0		[380] (46)		4.0		50		28		-	23
		2.0		47		[382] (7.7)		100		28			24
		2.0		38		7.4		1000		18			25
		2.0		32		6.7		[385] 1350		18			26
		2.0		26		4.7		100		18			27
		6.7		22		7.0		33		18			28
		5.6		20		2.6		20		[388] (18)		0	29
		5.6		18		1.8		14		18		[390] 0	30
	XX	XXX		16	XX	XXX		14		18	XX	XXX	31
		91		480		162.1		2697		694		316	6446
		3.03		15.48		5.40		87.0		22.4		10.5	17.7
		180.5		951.9		321.48		5348.7		1376.3		626.7	35.02
		6.7		47				1350		45		18	1350

4th Quarter: Computed, Checked, Date
3rd Quarter
2nd Quarter
1st Quarter

4th Quarter: Dis.appld., Dis.check, Date
3rd Quarter
2nd Quarter
1st Quarter

4th Quarter: G.H.copd., G.H.check, Date
3rd Quarter
2nd Quarter
1st Quarter

Water Year 1977