STATE OF COLORADO

DIVISION OF WATER RESOURCES
Irrigation Division No. 5
Glenwood Springs, Colorado

L. L. FINLEY
Division Engineer

January 12, 1966

SUBJECT:

Mr. A. Ralph Owens
Acting State Engineer
232 State Services Building
1525 Sherman Street
Denver, Colorado 80202

Dear Mr. Owens:

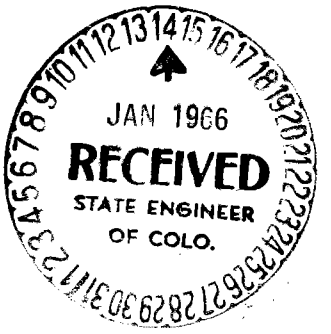
I am enclosing herewith my Annual Report. It is complete with the exception of the amounts of water diverted from Division No. 5 to Division No. 1. Will you please ask Bill Mattern to insert these amounts in the spaces provided for them on the last sheet of the report.

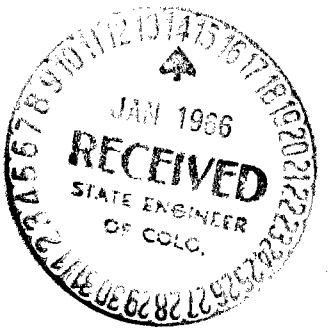
Yours truly,

L. L. Finley

LLF/skm

Enclosure





Glenwood Springs, Colorado
November 30, 1965

Mr. A. Ralph Owens
Acting State Engineer
Denver, Colorado

Dear Sir:

In compliance with the provisions of law, I transmit herewith my annual report as Division Engineer for Irrigation Division No. 5 for the year ending November 30, 1965.

The February 1 Snow Report was the most optimistic one in several years. Snow cover over the entire Colorado River basin above Grand Junction was very good. The headwaters snow courses indicated the snow pack was 130 per cent of average. The Roaring Fork River basin was better than 140 per cent of normal. With normal snowfall the rest of the winter would supply adequate water for next summer. By May 1 continued heavy snows during February, March and April had increased the Snow Pack over the entire basin. The headwaters of the Colorado River now had 135 per cent of average snow cover and the Roaring Fork River had 155 per cent of average; this assured water users of above normal supplies during the coming season.

The weather pattern during April, May and the first part of June alternated warm and cool periods, kept maximum daily flows lower and spread the runoff over a longer period of time, which prevented almost all flooding. The maximum in the Roaring Fork River occurred on June 21, which is about 15 days later than usual. Frequent rains during the summer plus delayed runoff from snow kept streams higher than usual in August and September. Runoff of the Colorado and Roaring Fork Rivers was greater in 1965 than in 1962, a good water year, but less than in 1952 and 1957, high water years.

Comparison of the 1965 Roaring Fork runoff total with those of the three earlier good water years is as follows:

1965 water year = 1,166,970 acre feet
1962 water year = 1,136,000 acre feet
1957 water year = 1,521,000 acre feet
1952 water year = 1,239,000 acre feet

Following is a table showing the forecast flow and the actual flow at Glenwood Springs of the Colorado and Roaring Fork Rivers as predicted on May 1, 1965, by the U. S. Weather Service and as measured by the U. S. Geological Survey:

Water Year Flow
October 1964 through September 1965

	Forecast A.F.	15-year Average A.F.	Per Cent of 15-year Average	Actual Flow A.F.
Colorado River	2,300,000	1,930,000	119	
Roaring Fork River	1,140,000	925,000	123	1,166,970

We started storing water in Dillon and Williams Fork Reservoirs on April 12, 1965. This was not because of a natural increase in stream flow at Dotsero, but because of increased releases from Green Mountain Reservoir storage which caused flow at Dotsero to rise above 1250 second feet.

Dillon Reservoir filled to capacity for the first time on August 3, 1965, and has remained full since that date.

Storage in the five larger reservoirs as of September 30 was as follows:

	1965	1964	1963	Capacity of Each
Granby Reservoir	383,503	258,580	385,040	539,758
Green Mountain Reservoir	148,650	123,582	95,283	154,645
Williams Fork Reservoir	78,909	22,001	37,553	93,000
Willow Creek Reservoir	7,971	9,288	8,792	10,553
Dillon Reservoir	255,514	63,855	8,200	255,514
TOTALS	874,547	477,306	534,868	1,053,470

The annual meeting to review operations of Western Slope features of the Colorado-Big Thompson Project was held at Shadow Mountain Camp on June 17, 1965. Mr. E. D. Bloye, Water Commissioner for Districts No. 50 and 51, and Mr. Lewis Cowden, Water Commissioner for Districts No. 36 and 37, and myself attended.

Several other meetings were held during the season with personnel from the City of Denver and the City of Colorado Springs.

Construction of the Silt Project near the Town of Silt is progressing very well and will be ready for use by the spring of 1967.

Construction on the Fryingpan-Arkansas Project in Water District No. 38 has been somewhat delayed because there has been a great turnover in manpower. It has been hard to keep skilled workers on the project. There is no housing for the workmen at the project sites and workers have to travel long distances in vehicles.

Progress on the City of Colorado Springs and Aurora's Homestake Water Project got a little off schedule last winter due to snow slides. It looks now like only limited use will be made of it during 1966.

Crops

Generally all crops have been very good this season.

Potatoes are of better size and quality and there has been some increase in acreage this year.

Hay is much better than in several years due to the longer irrigation water supply.

Due to the increased precipitation this season, dry land grains have been much better than in several years.

Fruit

Total peach shipments from Mesa County this year were 554,969 bushels as compared to last year's 492,593 bushels. This also was above the pre-season

estimate of 500,000 bushels despite hail which swept through the area during the harvest season.

Apples were late maturing again this year. Quality, size and color have been very good and yield was about equal to last year, one of our best seasons.

Other fruit and berry crops have been about normal this season.

The outlook for next year is very good at this time. Part of the snowpack from last winter remains in the mountains and was covered by a heavy early snowfall in September. Storage in reservoirs, the early season snowpack, wet soils in the mountains and valleys point to a very good water supply for 1966.

I believe the past season has been easier to administer than any of the past 29 years I have been Division Engineer.

Yours very truly,

L. L. Finley

L. L. Finley
Irrigation Division Engineer

LLF/skm

STATE OF COLORADO

DIVISION OF WATER RESOURCES
Irrigation Division No. 5
Glenwood Springs, Colorado

L. L. FINLEY
Division Engineer

SUBJECT:

Distri ct No.	No. of Ditches Reported	First Day Water Was Used	Last Day Water Was Used	Average Daily Amount Diverted Sec. Ft.	No. of Acre Feet Used from Stream	No. of Acres Irrigated
36	87	5-23-65	9-15-65	429.50	87,904	8,443
37	208	5-19-65	10- 1-65	682.80	185,413	21,744
38	85	4-14-65	10-28-65	416.50	111,018	31,110
39	159	3-20-65	10-31-65	297.37	114,179	22,673
45	127	4-15-65	10-31-65	470.33	100,712	26,936
50	107	3-25-65	9-21-65	438.30	72,050	18,838
51	199	4-15-65	11- 1-65	984.19	163,324	38,154
52	120	5- 1-65	10-30-65	281.29	49,466	7,760
53	225	5- 1-65	10-31-65	1,059.23	200,093	25,747
70	63	11- 1-65	10-31-65	133.84	38,314	7,280
Totals	1,317			5,193.35	1,122,473	208,685

TRANS-MOUNTAIN DIVERSIONS

Following is a report of the Trans-Mountain Diversions from Division No. 5 to Division No. 1 and Division No. 2 for the Irrigation Season.

To Division No. 1	Acre Feet
Adams Tunnel	
Grand River	
Berthoud	
Eureka	
Williams Fork	
Moffat Tunnel	
Colorado Springs - Hoosier Pass	
Boreas Pass	
Harold Roberts Tunnel	
Total Acre-Feet	

To Division No. 2	
Twin Lakes Tunnel	43,178
Busk Ivanhoe Tunnel	5,781
Ewing Ditch)	1,086
Wurtz Ditch)	2,644
Columbine Ditch)	487
Fremount Pass Ditch	-----
Total Acre-Feet	53,176

Grand Total Acre-Feet