

1945

Glenwood Springs, Colorado
November 30, 1945

Mr. M. C. Hinderlider
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, 1945.

The water supply outlook for the Colorado River and its tributaries was not encouraging on the first of April, however during the month of April a substantial increase in snow cover and water content of the snow improved the outlook. These conditions, followed by a late cold spring, which held water back, plus a well distributed, and increase in precipitation during the summer kept streams above normal flow throughout the summer, giving us one of the best irrigation seasons in several years.

As stated above, precipitation this season was well distributed, with above the normal rain fall for May and June and about normal rain fall for July and August, this after an almost zero rain fall for the 1944 season, was of great value to ranges and dry farms as well as the regular irrigated farms.

No major construction or repairs to irrigation systems have been made this season; however many small projects have been built, consisting mainly of new headgates, diversion dams, measuring flumes and pipe lines, Most of this work was done with AAA help.

One new Water Commissioner and one new Deputy Water Commissioner were appointed this year. Chauncy Morehead was appointed Commissioner of Water District No. 53 to succeed Chas. Plasters, who resigned this spring; Colin Clem was appointed Deputy Water Commissioner for Water District No. 45 to succeed C. F. March, who resigned this spring.

Crop report as follows:

Small Grains

There was considerable increase in acreage this year and the yield was the best in years.

Sugar Beets

There was a decrease in acreage this year, and the yield was about normal.

Potatoes

Considerable decrease in acreage this year, and the yield was under normal, the potatoes were small in size.

Alfalfa

Acreage was about normal, but yield was under normal.

Fruits

Acreage was normal, but yield was far under the 1944 all time records, due to the cold wet spring.

ADMINISTRATION COSTS

Cost of administration of Division No.5 for the year 1945 was \$7,593.50. This includes salaries of all commissioners and their deputies. 135,571 acres were irrigated at a cost of 0.056 cents per acre for services of water commissioners and their deputies.

DISTRICT NO	ACRES IRRIGATED	COMMISSIONERS FEES	DEPUTIES FEES	TOTAL
37	26,360	\$1,127.00		\$1,127.00
38	33,004	371.00	\$346.50	717.50
39	20,685	1,631.00		1,631.00
45	25,569	906.00	1,375.00	2,281.00
50	9,100	231.00		231.00
52	3,702	147.00		147.00
53	9,035	227.00		227.00
70	8,116	1,232.00		1,232.00
Totals	<u>135,571</u>	<u>\$5,872.00</u>	<u>\$1,721.50</u>	<u>\$7,593.50</u>

CLIMATOLOGICAL DATA

The following table gives the temperatures and precipitations as recorded at Rifle, Elevation 5,355; and at Glenwood Springs, Elevation 5,823.

RIFLE

	May	June	July	Aug.	Sept.	
Maximum Temp.	83	90	96	95	93	
Minimum Temp.	30	30	41	43	26	
Precipitation						Total
1945	1.22	1.40	0.75	0.65	0.32	4.34
1944	.30	.66	.99	.29	.07	2.31
1943	1.78	1.50	.39	2.53	.53	6.73
1942	.35	.20	1.27	.43	.57	2.82
1941	.82	1.26	.43	1.04	1.58	5.13

GLENWOOD SPRINGS

Maximum Temp.	88	94	97	95	95	
Minimum Temp.	34	33	44	45	31	
Precipitation						
1945	2.57	1.03	.44	3.28	.61	7.93
1944	2.29	1.61	1.14	.56	.07	5.67
1943	3.02	2.86	2.09	4.36	1.74	14.07
1942	.74	.38	2.20	.79	.52	4.63
1941	1.62	1.50	1.49	.99	2.42	8.02

SNOW REPORT

The following table shows the average snow depth and water content of 21 snow courses in the Colorado River Drainage Basin within Irrigation Division No.5 for the years 1940,1941, 1942, 1943,1944, and 1945 for the first of February, March, April, and May; also the average for the past ten years.

AVERAGE SNOW DEPTH							
	1940	1941	1942	1943	1944	1945	Ten Year Average
Feb.	26.6	28.0	32.6	39.8	24.6	28.9	32.9
Mar.	32.2	35.1	41.9	44.9	28.3	37.7	39.6
Apr.	43.9	32.8	38.7	46.6	45.1	40.8	43.9
May	24.2	37.3	45.3	18.0	40.5	40.5	33.6
						<u>147.9</u>	<u>150.0</u>

AVERAGE WATER CONTENT							
	1940	1941	1942	1943	1944	1945	Ten Year Average
Feb.	5.8	5.5	6.9	9.5	4.6	5.7	7.3
Mar.	9.1	8.3	10.0	12.0	6.8	9.7	10.1
Apr.	10.9	11.4	13.2	14.5	10.6	12.7	13.1
May	11.6	7.8	13.5	13.5	7.0	12.6	14.2
						<u>40.7</u>	<u>44.7</u>

TRANS-MOUNTAIN DIVERSIONS

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

To Division No. 1

Eureka	<u>188</u>	Acre Feet
Grand River	<u>23,200</u>	Acre Feet
Berthoud <i>Pass</i>	<u>1,037</u>	Acre Feet
Jones Pass	<u>11,041</u>	Acre Feet
Moffat Tunnel	<u>36,888</u>	Acre Feet
East Hoosier	<u>0</u>	Acre Feet
West Hoosier	<u>0</u>	Acre Feet
Boreas Pass	<u>0</u>	Acre Feet
TOTAL	72,354	Acre Feet

To Division No. 2

Twin Lakes Tunnel	<u>45,978</u> Acre Feet
Busk Ivanhoe Tunnel	<u>5,044</u> Acre Feet
Ewing Ditch	<u>685</u> Acre Feet
Wurtz Ditch	<u>2,045</u> Acre Feet
Columbine Ditch	<u>1,093</u> Acre Feet
Fremont Pass Ditch	<u>0</u> Acre Feet
TOTAL	54,845 Acre Feet
GRAND TOTAL	127,199 Acre Feet

Yours very truly,

L. C. Finley ✓
L. C. Finley
Division Engineer

TABULATED STATEMENT OF WATER COMMISSIONERS ANNUAL DITCH REPORTS FOR
IRRIGATION SEASON OF 1945, IRRIGATION DIVISION NO. 5

District No.	No. of Ditches Reported	First Day Water was Used	Last Day Water was Used	Average No. of Days Water was Used	Average Daily Amt. Diverted in Sec.Ft.	No. of Acre Ft. Used from Stream
36	...	.....	.....	...	.....	.....
37	216	May 15	Nov.1	169	890	260,045
38	108	May 1	Nov.1	184	907	212,568
39	128	Mar.1	Dec.1	275	420	149,000
45	91	May 1	Nov.1	184	295	49,497
50	...	.....	.....	...	.....	.....
51	...	.....	.....	...	.....	.....
52	74	May 1	Oct.10	163	120	11,867
53	27	May 1	Oct.20	173	150	40,991
70	62	Apr.1	Oct.27	210	192	55,958
TOTALS	706	Mar.1	Dec.1	275	2,976	779,927

District No.	No. of Acres that can be irrigated	Alfalfa	Natural Grasses	Cereals	Orchards	Market Gardens
36	11,500	.....	.....	.....	.....	...
37	28,023	12,049	8,921	3,762	.....	65
38	33,004	17,920	6,030	5,249	.....	...
39	26,765	10,883	2,999	3,983	463	267
45	10,600	14,551	6,269	3,975	455	36
50	21,400	.....	.....	.....	.....	...
51	41,100	.....	.....	.....	.....	...
52	6,450	1,098	2,376	197	.....	...
53	9,165	2,070	6,535	175	.....	...
70	18,255	4,390	2,008	1,591	11	9
TOTALS	206,262	62,961	35,238	18,931	929	377

District No.	Potatoes	Sugar Beets	Beans	Peas	Other Crops	Total Irrigated
36	.....	.....	...	...	...	8,400
37	1,278	.....	...	285	...	26,360
38	3,805	.....	...	...	...	33,004
39	1,030	1,060	...	...	...	20,685
45	138	43	2	...	...	25,569
50	.....	.....	...	...	...	9,100
51	.....	.....	...	...	...	22,180
52	31	.....	...	...	...	3,702
53	30	.....	...	...	225	9,035
70	67	.....	40	...	...	8,116
TOTALS	<u>6,379</u>	<u>1,103</u>	<u>42</u>	<u>285</u>	<u>225</u>	<u>126,470</u>