

M. C. Hinderlider
Denver, Colorado

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and railroad resulted from this flood.

There were several instances of flood damage to canals during the past season.

The frequent fluctuation in stream flow necessitated the issuance of orders to the Commissioners more often than usual, there having been 37 interdistrict orders issued in addition to many of local import.

The resignation of Water Commissioner McAnelly in District No. 3 was accepted and W. G. Wilkinson appointed to fill the vacancy.

Crops in the division were generally good. There was a slight decrease in acreage of sugar beets and an increase in corn acreage. The yield of beans was somewhat below normal.

The reservoir storage capacity in the division is increasing each year as new storage units are being completed on the Colorado-Big Thompson project, and the City of Denver has begun construction on a new reservoir (Number 22) on South Boulder Creek for the storage of Moffat Tunnel water.

There were 436,000 acre feet of water in storage on November 1st (exclusive of Big-Thompson Project) or about 49% of capacity. The maximum reached this year was 676,000 acre feet on July 1st or 75% of capacity. It is anticipated that the reservoir capacity will be filled this winter (except City of Denver Reservoirs) and much of the spring runoff may pass out of the State.

Trans-mountain diversion⁵ during the past season amounted to 100,473 X
acre feet, exclusive of the Adams Tunnel. A report of the Adams Tunnel diversion will be found in the report of Special Deputy C. E. Schnurr.

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The City of Colorado Springs is now engaged in the development of an additional water supply from the Blue River via the Hoosier Pass System which the City purchased.

A tabulation of the Water Commissioners' Annual Reports and a Report on the Administration of the Laramie River follow and form a part of this Report.


Laramie River

Administration of the Laramie River District was carried on under the same procedure that has been used since 1942, under the terms of an agreement to allocate the water on the basis of 4.02 acre feet per acre of irrigated area.

The tabulation of the ditches and amounts diverted were segregated according to ownership. This facilitates the keeping of the records and seems to meet with the approval of the various water users.

A tabulation of the amounts diverted by the several users accompanies and forms a part of this Report.

Respectfully submitted,


Irrigation Division Engineer
Irrigation Division No. 1

The following is a statement of water in storage in Irrigation Division No. 1, from January 1 to December 1, 1951, tabulated by districts. Does not include North Park District No. 47, nor the Laramie River Basin District No. 48, as there is very little storage in either of these districts.

Dist. No.	Values in Acre Feet											
	Jan. 1st	Feb. 1st	Mar. 1st	Apr. 1st	May 1st	June 1st	July 1st	Aug. 1st	Sept. 1st	Oct. 1st	Nov. 1st	Dec. 1st
1	61,317	82,112	106,891	115,881	110,680	99,004	86,105	55,843	42,712	17,462	33,992	72,382
2	26,313	32,341	39,314	49,223	60,663	59,625	55,951	33,721	20,637	14,721	28,324	50,959
3	42,127	45,722	51,006	55,814	64,212	79,083	139,472	125,313	96,390	63,346	71,940	80,723
4	28,462	31,396	30,865	23,073	26,076	34,010	62,191	57,863	62,574	49,627	48,745	54,345
5	5,677	6,785	7,911	8,533	12,141	18,304	29,111	26,606	26,719	20,962	22,861	24,850
6	10,546	12,167	12,734	13,384	17,633	29,375	37,758	34,584	31,626	26,612	26,636	25,928
7	8,928	8,308	6,722	4,727	4,700	9,572	12,409	14,833	13,005	9,701	10,776	9,802
8	11,438	10,197	10,261	15,770	18,158	16,956	17,568	15,519	14,850	14,603	15,409	15,967
9	2,409	2,601	3,075	3,801	5,899	6,285	7,673	4,986	4,003	3,540	3,736	4,268
23	123,565	119,462	118,589	115,142	118,387	118,993	130,357	134,032	131,418	127,052	124,798	124,650
64	<u>60,972</u>	<u>71,318</u>	<u>84,426</u>	<u>99,020</u>	<u>104,270</u>	<u>95,544</u>	<u>97,954</u>	<u>67,588</u>	<u>45,687</u>	<u>30,845</u>	<u>48,677</u>	<u>65,057</u>
Totals:	381,754	422,409	471,794	504,368	542,819	566,751	676,549	570,888	489,621	378,471	435,894	528,931
City of Denver:	141,792	135,791	133,325	133,401	138,085	140,815	154,213	159,373	155,812	149,288	149,434	147,964
Bal. Irr. Use:	239,962	286,618	338,469	370,967	404,734	425,936	522,336	411,515	333,809	229,183	286,460	380,967

TRANS-MOUNTAIN DIVERSIONS
 Irrigation Division No. 1
 1 9 5 1

<u>Name of Diversion</u>	<u>From District</u>	<u>To District</u>	<u>Source of Supply</u>	<u>First Day</u>	<u>Last Day</u>	<u>Acre Feet</u>
Deadman Ditch	48	3	Laramie River	6-1	7-10	1,217
Laramie-Poudre Tunnel	48	3	" "	5-20	8-5	14,574
Skyline Ditch	48	3	" "	7-3	7-19	3,640
Lost Lake Ditch	48	3	" "	-	-	0
Columbine Ditch	48	3	" "	6-17	7-15	133
Bob-Creek Ditch	48	3	" "	6-3	7-15	384
Sand Creek Ditch	48	3	Sand Creek	5-14	7-10	5,259
Michigan Ditch	47	3	North Platte River	5-28	8-18	4,302
Cameron Pass Ditch	47	3	" "	6-10	7-26	311
Grand River Ditch	51	3	Colo. River	5-30	9-8	24,967
Moffat Tunnel	51	6	" "	5-6	11-2	33,548
Williams Fork Tunnel	51	7	" "	5-20	9-15	11,130
Berthoud Pass Ditch	51	7	" "	6-21	8-25	706
Eureka Ditch	51	4	" "	6-23	8-28	127
Boreas Pass Ditch	36	23	Blue River	6-17	8-10	175
Adams Tunnel	51	4		11-1-50	10-31-51	60,070
Total						160,543

OFFICE OF STATE ENGINEER OF COLORADO
 Diversions from Laramie River & Tributaries
 - 1951 -
 Recapitulation - Totals for Season

Name of Ditch	Amount Diverted Second Feet
Bliler - Boswell Stuck Warren	564.43
Mansfield & Enlg. Mansfield No. 2	877.19
Forrester No. 1 Grace Cr. & Enlg.	875.15
Detro No. 1 Detro No. 2 Lower La Garde	314.15
Jimmy Cr. (Net) La Garde minus Lower L.G. La Garde No. 1 Schnitger	717.68
Yelton	283.46
Homestead No. 1 (Big Jenkins) " No. 2 (Little ") Pache Nellie	629.19
Martin No. 1 Martin No. 2 & Enlg. Wright	1,371.29
Brown-Nunn Cr. Cabin Davy Forrester - Brown Cr. Stubb	688.12
Link No. 1 Link No. 2 Smith - Brown Cr. Upper Hills	477.87
Brown - Porter Cr. Lamb	52.70 527.83

Laramie River Diversions - Continued

Name of Ditch	Amount Diverted <i>Day</i> Second Feet
British Cr.	
Comet	
Homestead - McIntyre Cr.	
Lower Grant	
Upper Grant	
Stuart No. 1	
Stuart No. 2	521.36
Brinker	
McIntyre	
Pine Creek & Enlg.	151.51
Glendevey	
Talmadge	93.32
Lower Jim	
Trollope	
Ward No. 1	
Ward No. 2	271.37
Jim minus Lower Jim	
Jim No. 2	
Lone Tree	
Ollie	
Timothy	<u>963.96</u>
Total Meadow Land Diversion	9,380.58 Second Feet 18,606 Acre Feet
- Trans-Mountain Diversions - <u>Laramie River</u>	
Laramie-Poudre Tunnel	14,574
Skyline Ditch	3,640
Deadman "	1,217
Lost Lake"	0
Columbine"	133
Bob Creek"	<u>384</u>
Grand Total Diversion from the Laramie River	19,968 Acre Feet 38,554 Acre Feet

RESERVOIR CONTENTS

JACKSON COUNTY, COLORADO - 1951

RESERVOIR NAME	DATE	GAGE HEIGHT (Feet)	CONTENTS (Acre Feet)	DATE	GAGE HEIGHT (Feet)	CONTENTS (Acre Feet)
Aqua Fria				Aug. 1	0.0	0
Big Creek Lake						
Boettcher Lake						
Brands						
Buffalo	May 20	10.9	211	Sept.15	5.0	81
East Delaney				Sept. 8	2.7	159
South Delaney				" 8	4.1	443
Case No. 1				" 30	0.0	0
Case No. 2						
Clayton				Sept.15	2.0	2
Upper Cowdrey L.						
Lower Cowdrey L.						
Fuller						
Hecla				Sept.14	15.2	243
Hunter						
Lake Katherine						
Laune	May 28	4.3	511	Sept. 8	5.4	662
Macfarlane	" 21	14.5	615	" 30	14.4	560
Mexican				" 1	0.0	0
Ross				" 1	0.0	0
Shawver				" 15	0.0	0
Slack & Weiss	May 20	12.0	137	" 14	4.5	40
Stambaugh				" 30	6.0	29
Threemile						
2 Ledge						
Wills						

Gage heights furnished by Owen V. Geer, Water Commissioner.

**TABULATION OF WATER COMMISSIONER'S ANNUAL REPORTS
For the Irrigation Season 1951**

Irrigation Division No. 1

<u>Dist. No.</u>	<u>First Day Water Used from Nat'l Stream</u>	<u>Last Day Water Used from Nat'l Stream</u>	<u>No. Acre-Foot Used by Canal for Season</u>	<u>Total Number that can be Irrigated</u>	<u>Total Irrigated</u>
1	4-3	10-31	330,850	180,550	158,660
2	5-1	10-31	340,040	231,370	228,000
3	4-30	10-6	458,360	260,000	252,500
4	4-14	10-31	185,540	142,670	136,330
5	4-24	10-16	121,800	112,000	111,900
6	5-1	10-11	136,290	195,340	168,660
7	3-4	10-31	129,500	116,540	100,900
8	3-15	11-1	119,150	112,364	21,250
9	4-16	10-31	30,390	16,000	15,460
23	4-14	10-31	89,320	46,070	36,300
47	5-1	10-1	E. 200,000	135,000	130,000
48	5-7	10-31	19,950	5,000	4,800
64	11-1-50	10-31-51	272,230	190,000	154,040
65	5-1	11-1	15,840	8,910	3,485 **
Totals . . .			2,449,260	1,751,814	1,522,285

* 5,000 acres in Nebraska

** 2,071 " " "