

Denver, Colorado

November 15, 1952

ANNUAL REPORT

Irrigation Division No. 1

Mr. M. C. Hinderlider
State Engineer of Colorado
State Capitol Building
Denver, Colorado

Dear Sir:

The Annual Report of the Irrigation Division Engineer of Division Number 1 for the year of 1952, is hereby presented.

The season of 1952 was rather erratic in that the early part of the season had ample precipitation and stream flow while during the later part, precipitation was far below normal with a resulting deficiency in stream flow.

The irrigated area produced near normal crops due to an abundance of reservoir water, while the non-irrigated sections were damaged by the protracted drouth. Due to a warm dry fall, irrigation and a demand for water has continued much later than usual.

Most of the reservoirs were nearly full at the beginning of the season, partly due to the heavy carry-over from last year; however, nearly all available water was used this season and storage is very low this fall.

On June 1st, there were 916,350 acre feet of water in storage representing about 92% of present capacity and on October 1st, there were 403,000 or about 40%.

Of the above amounts, about 220,000 acre feet is for domestic and municipal use.

Stream flow was rather steady, there having been no floods or exceptionally high stages of flow of consequence. The usually high rate of run-off during the spring failed to materialize due to cool weather although a heavy snow pack in the mountains indicated extremely high stream flow. This low rate of run-off proved to be valuable during the later stages of the season. There is very little snow in the mountains at this time and with storage at low ebb, the outlook for the coming season is not encouraging.

Trans-mountain diversion of water into this Division, amounted to 141,269 acre feet, including 56,098 through the Adams Tunnel. The City of Colorado Springs began diversion through the New Hoosier Pass tunnel this year and brought 2,380 acre feet into the Division during the later part of the season.

Work on a new storage reservoir on South Boulder Creek being built for the City of Denver, is progressing.

Progress is also being made on the Grand Lake-Big Thompson project and considerable water from this source was delivered to the water users this season.

The water supply in North Park (Water District No. 47), was excellent and the services of the Water Commissioner were called for on very few occasions.


Administration of the Laramie river area (Water District No. 48) proceeded under the same plan as in the past several years; however, some difference of opinion resulted in severe argument between water users on Jimmy Creek, both of whom refused to renew the agreement of 1942.

The trans-mountain ditches taking water from the Laramie river and tributaries failed to divert their allocated amount, this was due to lack

of demand and storage space, for water during May and June. The Meadowland users on the Laramie river diverted more than their share of the water; however, the over-all diversion by all Colorado users was 1,421 acre feet less than the amount allocated to Colorado by the U. S. Supreme Court.

Tabulations of the Water Commissioners Annual Reports, amounts of water in storage, and of the amounts diverted by the various users from the Laramie river and tributaries accompany and form 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 31, 1952, tabulated by districts. Does not include North Park District No. 47, nor the Loveland River Basin District No. 48, as there is very little storage in either of these districts.

— Values in Acres Feet —

Dist.	Jan. 1st	Feb. 1st	Mar. 1st	Apr. 1st	May 1st	June 1st	July 1st	Aug. 1st	Sept. 1st	Oct. 1st	Nov. 1st	Dec. 1st
19	94,617	112,163	121,150	131,980	134,866	134,411	116,369	66,478	31,763	5,808	20,254	40,548
2	56,651	62,711	75,666	86,682	93,960	94,360	72,256	45,851	21,085	14,857	10,741	20,791
3	88,524	95,589	157,231	163,168	182,363	221,783	248,242	203,533	149,056	114,696	114,141	126,073
4	56,899	59,672	61,532	62,652	74,831	79,220	76,645	58,266	45,393	33,727	34,423	32,647
5	24,256	24,395	24,551	25,186	23,612	33,452	33,611	26,438	16,590	12,330	12,330	12,410
6	23,435	21,948	21,631	19,881	23,139	34,733	34,318	30,224	24,320	19,619	38,456	18,853
7	8,978	8,287	7,588	7,495	5,854	15,037	15,058	12,992	10,663	9,339	9,801	9,227
8	15,214	14,875	14,500	13,293	16,269	18,025	17,442	16,525	16,330	14,380	13,900	15,128
9	5,007	5,616	6,154	6,521	7,673	9,000	8,188	4,506	2,974	2,296	1,897	1,897
23	124,212	123,186	122,200	122,200	135,900	154,760	174,860	172,580	164,957	160,812	155,720	151,700
64	84,398	105,435	116,477	116,178	119,349	121,569	101,430	63,376	34,787	15,116	30,664	47,270
TOTAL	582,191	633,877	728,680	755,288	827,816	916,350	898,399	700,749	517,926	402,980	422,322	477,506
City of Denver:	145,687	143,631	141,772	140,397	152,841	189,526	199,427	198,240	189,319	182,182	177,409	173,176
Bal. Irr. Use:	436,504	490,246	586,908	614,891	674,975	726,824	698,972	502,499	328,607	220,798	244,913	304,330

*After March 1st includes Horsetooth Reservoir

TRANS-MOUNTAIN DIVERSIONS
Irrigation Division No. 1
1 9 5 2

Name of Diversion	From District	To District	Source of Supply	First Day	Last Day	Acre Feet
Deadman Ditch	48	3	Laramie River	6-14	7-14	592
Laramie-Poudre Tunnel	48	3	Laramie River	5-11	9-18	15,065
Skyline Ditch	48	3	Laramie River	7--9	7-25	1,767
Lost Lake Ditch	48	3	Laramie River	-	-	0
Columbine Ditch	48	3	Laramie River	-	-	0
Bob Creek Ditch	48	3	Laramie River	-	-	0
Sand Creek Ditch	48	3	Sand Creek	5--8	7-13	2,751
Michigan Ditch	47	3	North Platte River	6--6	8-7	2,075
Cameron Pass Ditch	47	3	" "	6-23	7-12	116
Grand River Ditch	51	3	Colo. River	5-13	8-30	21,392
Adams Tunnel	51	4	" "	10-1-51	9-30-52	56,098
Eureka Ditch	51	4	" "	6-21	8-25	102
Moffat Tunnel	51	6	" "	5-15	11-11	31,290
Williams Fork Tunnel	51	7	" "	6-26	10-7	6,896
Berthoud Pass Ditch	51	7	" "	6-15	8-11	732
Boreas Pass Ditch	36	23	" "	8--9	8-30	13
Hoosier Pass Tunnel	36	23	" "	6-30	9-8	2,380

TOTAL 141,269

OFFICE OF STATE ENGINEER OF COLORADO
 Diversions from Laramie River & Tributaries
 - 1 9 5 2 -
 Recapitulation - Totals for Season

Name of Ditch	Amount Diverted Acre Feet
Bliler - Boswell Stuck Warren	1,497
Mansfield & Enlg. Mansfield No. 2	1,725
Forrester No. 1 Grace Cr. & Enlg.	1,905
Detro No. 1 Detro No. 2 Lower La Garde	609
Jimmy Cr. (Net) La Garde minus Lower L.G. La Garde No. 1 Schnitger	1,288
Yelton	533
Homestead No. 1 (Big Jenkins) " No. 2 (Little ") Pache Nellie	820
Martin No. 1 Martin No. 2 & Enlg. Wright	2,989
Brown-Nunn Cr. Cabin Davy Forrester - Brown Cr. Stubb	1,359
Link No. 1 Link No. 2 Smith -Brown Cr. Upper Hills	1,534
Brown - Porter Cr. Lamb	1,013

Laramie River Diversions - Continued

Name of Ditch	Amount Diverted Acre Feet
British Cr.	
Comet	
Homestead - McIntyre Cr.	
Lower Grant	
Upper Grant	
Stuart No. 1	
Stuart No. 2	1,049
Brinker	
McIntyre	
Pine Creek & Enlg.	667
Glendevey	
Talmadge	186
Lower Jim	
Trollope	
Ward No. 1	
Ward No. 2	855
Jim minus Lower Jim	
Jim No. 2	
Lone Tree	
Ollie	
Timothy	<u>2,763</u>
Total Meadow Land Diversion	20,905 Acre Feet
<u>-Trans-Mountain Diversions - Laramie River</u>	
Deadman Ditch	592
Laramie-Poudre Tunnel	15,065
Skyline Ditch	1,767
Lost Lake Ditch	0
Columbine Ditch	0
Bob Creek Ditch	<u>0</u>
	17,424 Acre Feet
Grand Total Diversion from the Laramie River	38,329 Acre Feet

TABULATION OF WATER COMMISSIONER'S ANNUAL REPORTS
For the Irrigation Season 1952

Irrigation Division No. 1

Dist. No.	First Day Water Used from Nat'l Stream	Last Day Water Used from Nat'l Stream	No. Acre Feet Used by Canal for Season	Total Number that can be Irrigated	Total Irrigated
1	4-15	10-31	350,536	181,152	159,259
2	4-28	10-31	430,770	239,575	231,670
3	5-1	10-31	400,105	260,000	252,500
4	5-9	10-31	193,616	142,440	140,000
5	4-16	10-31	128,452	112,000	111,880
6	5-5	10-31	126,125	195,335	165,000
7	4-3	10-31	156,756	115,328	95,871
8	11-1-51	10-31-52	149,470	100,261	21,624
9	5-11	10-31	30,619	16,372	15,467
23	4-12	9-15	110,237	47,090	34,305
47	5-10	10-31	E. 300,000	135,000	130,000
48	5-4	11-15	20,905 *	5,000	4,800
64	11-1-51	10-31-52	313,892	190,085	154,372
65	5-1	10-31	21,000	8,656 +	3,499 ++
TOTALS			2,732,483	1,748,294	1,520,247

+ 5,000 Acres in Nebraska
 ++ 2,075 " " "
 * Meadow Land use only