

STATE OF COLORADO  
IRRIGATION DIVISION NO. 2  
PUEBLO

F. C. SNYDER  
IRRIGATION DIVISION ENGINEER  
SUNSHINE BLDG.,  
P. O. BOX 1423

Nov. 29, 1961

SUBJECT:

Mr. J. E. Whitten  
State Engineer  
Denver, Colo.

Dear Sir:

I herewith submit my report as Division Engineer of Division No. 2 for the year of 1960.

This was a year which started out as if it would be one of short supply, since rain and snowfall had been light during the winter and spring. However, frequent rains starting May 3rd, which were distributed here and there throughout the summer, kept a fairly constant supply of water for most of the time in the older ditches and some at times for the juniors.

Snowfall in the mountains was very short, and runoff from the spring thaw allowed only three days of storage in June. This, coupled with 12 days in December and 15 days in February, was the extent of general storage.

Precipitation at Pueblo was 14.18 inches for the year against an average of about 11.5 inches. From May 3rd until Sept. 3rd there were 11.23 inches of precipitation which fell during the growing season. At Las Animas, the year's total precipitation was 14.68 inches as compared to 12.34 inches ~~as an average~~. 10.46 inches of precipitation fell during the above-mentioned 4-month period at Las Animas.

This reduced the amount of storage water needed, and we finished the season with more than double the amount we carried over last year. These timely rains were so distributed over the area and timed that no great damage was done, nor big floods to contend with in the river.

Beulah, which is 25 miles west of Pueblo, had 34 inches of

precipitation for the 12-month period against an average of about 14 inches. 20.57 inches of rain fell there between May 3rd and August 13th.

Transmountain diversions totaled 48,847 acre feet which was slightly above the average of 46,700 but below the 54,082 acre feet of last year.

The reservoir carry-over on Nov. 1, 1960, was one of the lowest ever, being only 61,438 acre feet of which 36,705 was irrigation water. This year the carry-over is 113,431 acre feet of which 79,677 acre feet is for irrigation use.

John Martin Reservoir did not close the gates until Dec, 1, 1960. The gates were opened April 3, 1961 when storage amounted to 22,625 acre feet. The reservoir was emptied April 28, 1961, at 7:30 P. M. The gates were again closed for storage at 10:30 A. M. June 3rd, due to rains above and heavy hail and damage below reservoir. Gates remained closed until June 19th when they were opened to supply Kansas demand. The reservoir was then emptied at 10 P. M. June 27th. Gates were partially closed from 8 A. M. Aug. 13th to midnight Aug. 17th, when it was again emptied and we reverted to decrees.

Storage season on John Martin reservoir starts Nov. 1, with the Colorado ditches having the right to demand the river flow up to the extent of 100 sec. ft. On Nov. 1, 1960, they did demand 100 second feet claiming an amount must be passed by the ditches above the reservoir to make the river flow available to 100 second feet at the dam. A part of the time during November, the river flow was more than 100 second feet, therefore, the excess above 100 second feet should have been stored.

The Amity Ditch (the beneficiary) cancelled  
the demand on November 30<sup>th</sup> and ~~closed~~  
the gates. ceased deliveries

I ruled that they were entitled to the river flow but did not have the right to demand any deficiency to be made up from decrees above the reservoir.

The matter was referred to the State Engineer, who ruled on Nov. 25th that we were still on decrees and the State Administration should keep 100 second feet at the outlet of the reservoir. This order was passed on to the Water Commissioner of District No. 17.

(The demand was cancelled on Nov. 30th by the Amity Ditch, who were the beneficiaries, closing their gates.) Gates of the reservoir were closed Dec. 1, 1960, at 11 A. M. for winter storage.

At the Dec. 16, 1960, meeting of the Arkansas River Compact Administration, a motion was passed to inquire of the Attorney General of each state for an interpretation of the above question. Under date of Jan. 16, 1961, the Attorney General of Kansas issued the opinion that this 100 second feet of water could be used for irrigation but did not answer the question of demanding water from above the reservoir to make up the 100 second feet. It was his opinion "The term 'River Flow' means the sum of the flows of the Arkansas and Purgatoire Rivers into John Martin reservoir as determined by gaging stations appropriately located above the reservoir."

The situation did not recur this year as the gates were closed Nov. 1, 1961, when 300 second feet were available for storage.

The ~~Graneros~~ Pipe-line case was turned over to an attorney last year for civil action, which was filed in the court this fall. I understand this will come up for hearing in the spring unless the death of one of the plaintiffs changes matters.

The Beaver Park case is in the process of compromise. One stipulation in compromise I cannot approve, is that, it be

\*Stipulated and agreed that the water stored in Brush Hollow Reservoir in 1951 at the time when this controversy arose and this action commenced, including 983.34 acre feet in storage on July 12, 1951, and all other water stored therein on that date or after that date up to and including the date of this Stipulation, has been legally and lawfully stored therein and is the property of the plaintiff Beaver Park Company".

There were no problems unresolved due to good precipitation during the growing season.

The distribution of water in Division No. 2 for the year was 1,850,969 acre feet to a total of 498,041 acres of land, being 3.71 acre feet per acre of ground irrigated.

Tables of transmountain diversions, reservoir storage by months, acres of land irrigated and water used are attached hereto.

Thanking the Denver office force, the Water Commissioners and their Deputies as well as the water users for their cooperation this past season, I am,

Respectfully yours,

  
Division Engineer, Div. No. 2.

TABULATION of WATER COMMISSIONER'S ANNUAL REPORTS.  
for IRRIGATION SEASON of 1961.

IRRIGATION DIVISION No. 2.

Dist. No.	First day water was used from natural stream	Last day water was used from natural stream	Number of acre feet water used by canals for season	Total number acres irrigated 1961
10	Nov. 1, 1960	Oct. 31, 1961	63,432	12,412
11	Nov. 1, 1960	Oct. 31, 1961	159,341	26,042
12	Nov. 1, 1960	Oct. 31, 1961	358,322	22,071
13	Apr. 23, 1961	Oct. 31, 1961	46,938	19,870
14	Nov. 1, 1960	Oct. 31, 1961	211,905	108,585
15	Nov. 1, 1960	Oct. 31, 1961	40,768	5,039
16	Nov. 1, 1960	Oct. 31, 1961	99,718	44,467
17	Nov. 1, 1960	Oct. 31, 1961	525,918	155,700
18	Mar. 11, 1961	Oct. 31, 1961	15,784	4,980
19	Nov. 1, 1960	Oct. 31, 1961	150,874	29,960
66	Jan. 1, 1961	Oct. 31, 1961	1,153	433
67	Nov. 1, 1960	Oct. 31, 1961	176,816	68,482
49				
		Totals	1,850,969	498,041

TRANS-MOUNTAIN DIVERSIONS  
Irrigation Division No. 2.

1961

Month	Columbine	Ewing	Wurtz	Busk-Ivanhoe Tunnel	Twin Lakes Tunnel	Larkspur	Totals.
Nov. 1960					178		178
Dec.					102		102
Jan. 1961					84		84
Feb.					76		76
March					85		85
April					82		82
May	254	205	658	692	9058	6	10873
June	732	321	676	2542	18222	32	22525
July	103	112	m84	655	3116	0	4070
August	20	28	17	200	1780		2045
Sept.				442	4782		5224
October				235	3268		3503
Totals	1109	666	1435	4766	40833	38	48847

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CONTENTS of MAJOR RESERVOIRS in IRRIGATION DIVISION No. 2.  
 Dec. 1, 1960 to Nov. 1, 1961 - Values in Acre Feet.

	Dec. 1	Jan. 1	Feb. 1	Mar. 1	Apr. 1	May 1	June 1	July 1	Aug. 1	Sept. 1	Oct. 1	Nov. 1
Fountain Val. #2	1470	2289m	2289	2849	2871	2892	2828	3171	3149	3128	3128	3492
Fountain Val. #3	35	35	35	35	35	35	0	0	0	0	0	0
Monument Res.	421	447	447	447	447	447	447	447	447	447	447	438
Sugar Loaf	6419	6468	6488	6502	6660	6626	5456	8247	8899	8972	9376	9266
Twin Lakes	7444	8331	8922	9339	9377	9574	17168	39005	35433	18389	17986	22411
Clear Creek	5044	5238	5249	5539	5530	5507	6398	8721	8529	8448	8372	8573
Mt. Pisgah	750	750	786	897	1037	1150	1158	1158	1158	1158	1158	1231
Skaguay	1809	1809	1167	1167	1167	1893	1809	2743	2765	2864	2864	2798
Brush Hollow	1026	1406	1790	1899	2095	2516	2248	2552	2421	3398	3252	3412
City of Colo Spgs	4057	4000	3990	3900	3841	6466	3864	4802	5397	5994	6170	6051
DeWeese-Dye	1754	2136	2109	2217	2144	2162	2127	2661	2600	2395	2291	2300
Lake Henry	1317	6773	6715	6207	6399	6207	3720	4920	4635	4170	2339	1463
Lake Meredith	0	0	163	5890	5821	5016	3940	5016	4316	327	0	0
Beckwith(Hayden)	613	672	729	802	865	918	925	925	891	939	939	939
C F & I Res	12351	12266	11722	12265	12608	12090	12587	12655	12489	12548	12471	12488
Color	1448	1448	621	621	948	1325	1476	1754	1754	1754	1754	1754
Cucharas	1467	1430	1467	1920	2080	2080	1430	2794	2515	2515	2938	3905
Huerfano Valley	225	124	124	124	257	418	325	654	927	1260	1089	995
Holita	158	187	187	276	432	432	432	432	432	432	432	432
Dotson	0	0	0	0	0	0	196	196	627	963	921	838
Dye	0	0	0	1182	1138	1035	740	1859	0	0	0	0
Holbrook	0	908	4435	4375	4192	4021	3792	3570	1328	466	0	508
Horse Creek	0	0	0	0	0	0	0	1950	0	0	4571	3982
Adobe	0	0	0	0	0	0	0	550	0	0	0	0
Model	3358	4250	4250	4784	5232	4784	3134	3920	3920	3920	3507	2760
North Lake	152	152	116	116	116	143	152	152	152	152	152	152
Monument Lake	1105	1105	1184	1184	1184	1764	1948	1948	1948	1948	1948	1948
NeeNoShee Nee Gronda												
& Nee Sopha	227	227	0	10976	10671	7271	1657	990	250	2530	1832	1101
Nee Ska (or Queen)	3152	3152	9423	12610	12129	11647	10186	10515	10054	8190	7888	6842
Two Buttes	5023	5261	5214	5023	5023	4603	4742	4742	6010	11170	7887	11322
Thurston	1347	1746	2166	2166	2241	2211	2075	2030	1970	1970	1942	2030
John Martin	664	6153	9925	16853	22260	0	0	0	0	0	0	0
Totals	62836	74513	91713	110935	128800	105233	92218	135079	125016	110447	107654	113431
Mun. Mfg. & Power	25966	26018	25049	24765	25394	29188	28234	32775	33034	27414	33731	33764
Irrigation	36870	48495	66664	88170	103406	76045	63984	102304	91982	82733	73923	79667