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STATE OF COLORADO  
IRRIGATION DIVISION NO. 2  
PUEBLO

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

Nov. 29, 1956.

SUBJECT:

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

Dear Sir;

I herewith submit my report as Division Engineer of Irrigation Division No. 2, for the year of 1956.

This has been another very dry year in both precipitation and stream flow over the entire Division. Precipitation at Pueblo being only 6.38 inches, or about one-half of the average. At Las Animas 11.15 inches against an average of about 12 inches, which near average flow helped the lower river to some extent. There were no general rains covering the entire Division. Two rains covering fairly large areas caused some run-off below Pueblo to help for short periods. There were no rains above to raise the river to unusual heights at Pueblo.

Ditch diversion dams washed out in the 1955 floods were all replaced and in operating condition during the entire season; the cost being near one million dollars.

Storage in reservoirs was limited to trans-mountain diversions, there being no storage from natural flow except in John Martin reservoir which caught some water on two occasions from rains, mostly in the Purgatory drainage. John Martin Reservoir entered the season April 1st, with 44,144 acre feet in storage. Releases were started April 2, and reservoir was emptied April 30th. There were some small flash floods through the dam up to July 19, none of the water of which reached the State Line. On July 19,

(2)

there was found to be water for storage and gates were closed. This water lasted until July 30th with soem additions accuring during the period. Again on Aug. 19, gates were closed for storage and on Aug. 22, report there were about 17,300 acre feet in storage. This lasted until Sept. 2, when the reservoir was found to be dry. Decrees were administered the rest of the fall as if no reservoir had been constructed. During November the Colorado Ditches demanded the river flow up to 100 second feet for domestic purposes in accordance with Article 5A of the Compact. Therefore, no storage was accomplished.

A committee of 6 including myself, was appointed by General Kramer at the meeting of the Arkansas River Compact on Oct. 26, to work out a closer capacity table in the lower reaches for future releases, as the table which was in use during the last year was in considerable error. Water being in storage to the extent of about 1500 acre feet when table indicates reservoir to be dry. At a meeting of this committee Nov. 14, a proceedure was worked out whereby a closer approximation of the time can be predicted when reservoir will be emptied and controls shifted to the State Engineer.

Law suits of only a minor nature have been instituted this year. The Beaver Park injunction suit remains in the same status as last year, nothing having been done regarding it.

Cooperation by the water users and Commissioners has been fine during this trying period and no serious controversy has arisen.

Irrigated acreage has been reduced to 489,711 for the entire division from the 507,470 acres irrigated last year, due to the increasing shortage of water. Last year 1,483,500 acre feet of water was used and only 1,196,192 was available and used this year.

(3)

This is 2.44 acre feet of water diverted per acre of ground irrigated.

Trans-mountain water diverted from Western Slope amounted to 46,235 acre feet which is about 3,000 acre feet more than a year ago. This increase due probably to better attention . Diversions were shut down on Aug. 11th, for Western Slope ditches and not resumed until Oct. 25th.

With the exception of John Martin there was no storage in reservoirs for irrigation purposes during the year and they are at a very low level, only a little better than 1954. The carry over being only 38,018 acre feet for irrigation use.


Crop production was curtailed and water used for the more valuable crops. Beet production was down in tonage but up in sugar content so that the monetary return was about equalized.

Wells and stock ponds continue being built at an increasing pace and are cutting into the stream flow more with each one. Decreed water, as such, is on the way out unless a curb<sup>is</sup> put on these installations.

Tabulations are attached showing the Trans-Mountain diversions, reservoir contents each month and water used on acreage for each district.

Thanking you for your cooperation and that of the Water Commissioners and users, I am,

Respectfully yours,



Division Engineer, Irr. Div. No. 2

TRANS-MOUNTAIN DIVERSIONS  
Irrigation Division No. 2.

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MONTH	COLUMBINE	EWING	MURKIN	BUSK-IVANHOE TUNNEL	TWIN LAKES TUNNEL	LAINESPUR	TOTALS.
Nov. 1956					124		124
Dec. 1955					92		92
Jan. 1956					99		99
Feb.					80		80
Mar.					60		60
Apr.	316				104		420
May	1004	486	1420	1537	13366	12	17825
June	77	428	1046	2318	19200	20	23089
July	2	88	118	541	3325		4074
Aug.		19	13	57	283		372
Sept.							
Oct.							
TOTALS	1399	1021	2597	4453	36733	32	46235.

All quantities in acre feet.

TABULATION of WATER COMMISSIONER'S ANNUAL REPORTS  
 For Irrigation Season of 1956.  
 Irrigation Division No. 2.

Dist. No.	First day water was used from Natural stream	Last day water was used from natural stream	Number of acres Feet water used by canals for Season	Total number Acres Irrigated 1956
10	Nov. 1, 1955	Oct. 31, 1956	21,447	15,302
11	Nov. 1, 1955	Oct. 31, 1956	132,659	24,692
12	Nov. 1, 1955	Oct. 31, 1956	292,951	18,904
13	Apr. 10, 1956	Oct. 31, 1956	18,355	16,527
14	Nov. 1, 1955	Oct. 31, 1956	175,191	105,524
15	Nov. 1, 1955	Oct. 31, 1956	13,305	2,669
16	Nov. 1, 1955	Oct. 31, 1956	17,629	54,315
17	Nov. 1, 1955	Oct. 31, 1956	323,686	157,901
18	Apr. 9, 1956	Jun. 15, 1956	1,195	1,585
19	Nov. 1, 1955	Oct. 31, 1956	53,110	20,091
49	Nov. 1, 1955	Oct. 31, 1956	5,634	1,790
66	Jan. 2, 1956	Oct. 22, 1956	1,373	440
67	Nov. 1, 1955	Oct. 31, 1956	<u>139,657</u>	<u>70,033</u>
Totals			1,196,192	489,771

CONTENTS of MAJOR RESERVOIRS in IRRIGATION DIVISION No. 2.  
 Dec. 1, 1955 to Nov. 1, 1956 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 Valley #2	391	318	561	1382	1370	1647	1382	1180	591	383	318	383
Fountain Valley #3	27	27	52	52	46	45	27	23	20	14	9	8
Callahan	47	47	47	47	64	64	47	33	33	33	23	15
Monument	231	256	219	256	289	276	228	222	157	228	222	219
Sugar Loaf	7078	7065	7078	7288	7009	6454	5041	11132	8573	5571	5172	4976
Twin Lakes	15680	15787	15822	15858	15449	11833	21294	26762	15804	11186	10811	8196
Clear Creek	* 4269	4264	4279	4277	4269	4269	6437	6955	6585	6112	5650	5456
Skaguay	* 1869	1869	2228	2276	2373	2637	2402	1926	1473	1647	1386	1211
Mt. Pisgah	1000	1000	1000	1000	1000	456	456	456	363	363	363	363
Brush Hollow	1781	1849	1949	2022	2128	2317	2504	1869	1525	1255	1180	1180
City of Colo. Spgs*	4483	4366	4019	3958	3665	3624	3867	3163	3367	2987	2670	1936
Deweese-Dye	273	294	266	313	337	507	279	0	0	0	0	0
Teller	0	0	0	1214	1085	1044	849	784	1192	1182	914	905
Lake Henry	0	0	0	0	0	0	0	0	0	0	0	0
Lake Meredith	0	0	0	0	0	0	0	0	0	0	0	0
Beckwith (Hayden)	506	458	466	506	502	502	502	471	425	386	301	252
Minn. CF&I #2 & 3*	10855	11844	12110	11380	11701	11783	11104	10393	12247	11018	10340	10621
Color	* 1709	1650	1650	1635	1680	1754	1605	1194	948	948	890	833
Cucharas	12720	12426	12144	11676	11580	11400	7776	5312	3280	2000	1362	1090
Huerfano Valley					860	851	401	470	310	191	225	169
Holita	37	37	37		37	50	50	37	0	0	0	0
Dotson					1640		1361		0	0	0	0
Dye	0	0	0	0	0	0	0	0	0	0	0	0
Holbrook	0	0	0	0	0	0	0	0	0	0	0	0
Horse Creek	0	0	0	0	0	0	0	0	0	0	0	0
Adobe	0	0	0	0	0	0	0	0	0	0	0	0
Seven Lakes						2353						1069
Model	860	1545	1828	2055	2055	0	860	0	1056	1658	0	0
North Lake	* 891	870	875	891	897	897	897	897	897	870	793	602
Monument Lake	* 1855	1850	1850	1855	1764	1855	1700	1700	E1674	1674	E1674	1616
Nee No She, Nee												
Gronda & Sopha	0	0	0	0	0	0	0	0	0	0	0	0
Nee Skah (or Queen)	0	0	0	0	0	0	0	0	0	0	0	0
Two Buttes	10036	18204	E20000	23422	22868	21761	19415	17421	20307	E20000	19527	19193
Thurston	0	0	0	0	0	1718	1359	1150	919	0	0	0
John Martin	48438	50369	52531	42455	44144	570	0	0	464	3627	0	0
Totals	125036	136395	141011	136118	138812	90667	91843	93550	82210	73333	63830	60293
* Mun. Mnf&Power	25931	26713	27011	26272	26349	26319	23012	26228	27191	25256	23403	22275
Irrigation	99105	109682	114000	109846	112463	63848	63831	67322	55019	48077	40427	38018

TRANS-MOUNTAIN DIVISIONS  
Irrigation Division No. 2.

1956.

	NORTH COLUMBIERS	SEVEN	WHEAT	ROSE-TYANDEE TUNNEL	TWIN LAKES TUNNEL	LAKEPOW	TOTALS
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All quantities in acre feet.