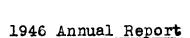
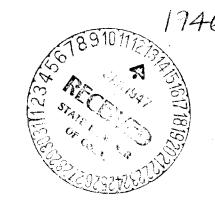
DIVISION ENGINEER OF IRRIGATION DIVISION NUMBER TWO

PUEBLO, COLORADO

BI MASONIC BLDG. P. O. BOX 1429





December 1, 1946

M. C. Hinderlider State Engineer Denver, Colo

Dear Sir:

Herewith is my annual report for 1946. The irrigation season started off much as usual. The Spring months were dry with the exception of April which had a rainfall of one and one half inches above the normal of 1.31 inches. The Summer months were below the average in rainfall. During the past twelve days in August there was 5.37 inches. The average for the entire month of August is 1.82 inches. The total rainfall for the entire year was 12.87 inches. The average is 11.67 inches.

Most of the ditches did not suffer from lack of irrigation water owing to a supply of reservoir water.

The heavy rainfall in late August did some damage to melons and onions. On the whole crops were good and prices fair with the exception of onions. There was a large crop of onions in the United States.

Below is a tabulation of the rainfall at the Pueblo station, and the average.

Average

0.36 0.50 0.32 0.47 0.59 1.31 1.60 1.36 1.94 1.82 0.75 0.66 11.67

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(2)

The rainfall at Las Animas was 11.46 inches, and the average is 12.26 inches. The rainfall at Lamar was 19.31 inches, and the average is 15.24 inches.

The evaporation loss at the Caddoa Reservoir for the year 1946 was 6 feet, and 0.98 inches.

The runoff of the Arkansas River at Pueblo was below the average.

The average is 520,000 acre feet.

There was seven and one Malf days of general storage during the heavy rainfall in the latter part of August. This water was all tun out immediately after.

An unusual snow occurred on November 1st, and 2nd. From 24 to 36 inches fell over the irrigation division east of the mountains, and in the foot hills. This snow made it difficult to get feed to stock. By the use of tractors, catapillars, trucks, and bull dozerrs practically all the stock was saved. The snow also covered the 45 per cent of the Sugar Beet crop that was in the ground on Novemberlst. The beets were eventually saved after the snow had disappeared, and the weather moderated.

Storage was allowed in all reservoirs on November 4th. Some of the intake canals had much difficulty in getting water to the reservoirs on account of the ditches being full of snow.

There were no disastrous floods in 1946, and but few hail storms

DIVISION ENGINEER OF IRRIGATION DIVISION NUMBER TWO

PUEBLO, COLORADO

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(3)

and but little insect pests. A few localities suffered from grass hoppers.

There were six trans-mountain diversions operated in 1946.

They brought over a total of 48,156 acre feet for storage in reservoirs, and direct irrigation to canals.

On May 1st there was 293,365 acre feet in storage reservoirs. The average for the past 26 years was 198,448 acre feet. Of the stored water 269,678 acre feet was for irrigation. 15,388 acre feet for manufacturing purposes, and 8,299 acre feet for domestic purposes.

On November 1st there was 92,450 acre feet in storage. The average for the past 26 years is 138,909 acre feet. Of the stored water 67,044 acre feet is for irrigation, 17,660 acre feet for manufacturing purposes, and 7,446 acre feet for domestic use.

A total of 87,779 acre feet of reservoir, and trans-mountain water was run to canals near Pueblo, and east of there. A charge of 11,445 acre feet was made on the carrying of this water in the river channel.

A dispute arose between the irrigation interests in western Kansas, and the ditches in Colorado over the division of the water captured in the John Martin reservoir in the winter 1945, and 1946.

At the request of Governor Vivien of Colorado, the U. S. Army Engineers discharged the 49,800 acre feet in the John Martin reservoir starting at 12:01, A. M. May 10th, and completing the run at

DIVISION ENGINEER OF IRRIGATION DIVISION NUMBER TWO

PUEBLO, COLORADO 31 MASONIC BLDG, P. O. BOX 1423

(4)

2 A. M. May 25th. The water was used by the irrigators in Colorado and Kansas in about equal proportion. The reservoir remained empty thru the season and until 1 A. M. November 7th, 1946 when storage was again allowed, and will continue until April 1st, 1947.

An agreement has been reached over the division of the winter stored water. The John Martin Reservoir has been of material benefit to the irrigation interests of western Kansas, and it is hoped that a permanent agreement can be reached.

Yours Truly,

C. w. seach

Division Engineer of Irrigation Division No.2

Tabulation showing amount of stored water in acre feet on the first of each mouth of major reservoirs in Inegation Division Nº 2.

		i me gi	1				or reaces							
		January 151 1946	February	March 1st 1946	April 18 1946	May 19/946	June 151 1946	July 1st 1946	August 185 1946	September	October 1046	November 121946	December 1st 1946	
10	Fountain Valley Nº2	3994	1- 1946	5076	4872	4545	3894	2592	1912	1659	1483	1521	1994	
10	Fountain Valley Nº2						104	46	27	36	46	60	145	
	Fountain Valley Nº3	57	36	405	2.54	171	93	95	40	21	95	0	a	
0	Spring Run Nº 2	200	207	207	95	3/	直接规模包括是包括	85	64	141	85	323	323	
0	Calatian	47	47	47	449	323	141	124	124	189	15-6	155	189	
	Cheyenne Mountain	189	189	189	155	155	124		300	4/2	363	343	442	
	Monument	403	403	403	438	438	4/2	351		5839	5890	6454	6939	
	Sugar Loaf.	12628	12667	12846	12574	10055	9596	13863	10 755		17072	用 服服 整 版 图 数 图 题		
	Twin Lakes	39357	39771	40081	40227	29469	29019	42393	30490	16018	1814	18235	18647	
/	Clear Creek.	8486	8633	8820	8783	8559	6061	6406	2841	1820		1786	2574	
2	Skaguay	1390	1244	963	594	631	685	623	1057	1826	2/19	1918	1696	
2	Mount Pisgah	3043	3043	3043	3043	1652	1669	1423	1368	/627	1669	1585	1976	
	Brush Hollow	1604	1582	1482	2022	2232	1560	1003	494	565	7/2	855	1556	
2	City Colorado Springs	5218	5218	4218	4828	3385	4399	4399	4528	4327	4045	4490	4317	
	Deneese-Dye	37/2	4322	4322	4322	4322	4040	2961	1818	1583	1179	1142	2091	
	Teller	812	8/2	774	736	686	295	53	790	6/2	401	360	334	
	Lake Henry	5223	5223	64415	6623	3424	3424		1912	5223	4031	2709		
4		23983	26273	26/40	25574	23237	16040	7724	4561	8377	8051	8051	11655	
5	Hayden (Beckwith)	237	237	409	502	433	371	3/5	258	188	174	162		
5	Lake Isabel	1038	1038	1038	1038	1038	1038	1027	1030	1030	1030	1038	1030	
	Minnegua-	1316	13/3	1287	1255	1232	1215	1118	1092	1104	1062	1312	1378	
5		2573	2644	26/2	2628	2633	2625	2586	2625	2664	2586	2586	2674	
	C.F. +I Nº 3	4919	4843	6823	7247	7104	7999	6576	6360	7512	. 7976	8274	8392	
	Coler	481	481	526	526	526	526	436	196	196	160	0	6	
	Cucharas	4942	5/40	5470	5305	3358	1600	388	520	2698	1420	1420	1996	
	Bradford	0	0	0	0	6	0	0	0	0	0	6	0	
		1366	1366	1366	1366	1257	1154	950	668	0	a	0	0	
	thuerfano Valley				100									
	Crane Holmes	Dam o						0	0	0	0	0	a	
	Lindsley	27			1,08	158	50	67	50	19	19	19	19	
	Holita	37	37	158	158	. / 0 0		0	0	0	5	0	ò	
	Valdez	2	6	9	-011	704	565	200	100	200	100	180	180	
6	D 075011	200	200	1003	784	784				1740	1623	1550		
	Dye	2/28	3038	2955	2915	2770	1727	196	582	2242	1619	942		
	Holbrook Nº1	4193	4431	43/2	4332	4034	. 1592	982	8863	9852	10633	8009		
	Horse Creek		15653	18195	17768	13972	11386	10286		14823	15502	14435	19326	
	Adobe		47119		48/04		32861	3//32	17524	17825	70002	77730	0	
	Seven Lakes	200	200	200	200	150	150	100	0				392	
	Model	2435	2435	3649	3649	3575	. 0	0	9	2/0	3.6	308	308	
	Hermosa	934	934	620	620	533	533	533	533	308	308			
	North Lake	632	582	482	426	526	578	592	642	804	870	870	853	
	Monument	1384	1389	1389	1348	1429	1389	1348	1184	1105	1266	1348	1429	
1	Nee No She													
57	Nee Gronda	93068	97794	107675	106299	90276	7/342	68/98	40503	2/386	10774		9960	
	Nee Sopah													
	Nee Skah	15074	15074	15000	14851	14404	12335	9675	8793	8672	7950		5459	
	Two Buttes			354				11774	4088	7423				
	Thurston	144	0	0	0	0	,0		-0	0	. 0	0		
	Caddog	34520	40571	50441	57022	49 858	0	0	0	0	0	0		
-	Lake Ms Kinnie Kan		11094		12257	14987.	10600	15207	10091	587/		13675	27005	
	2011 2 /112 11 11111 6 1 (41								REBBEE					

umber	Amount Appropriated	Capacity	Length of Main Dithe	First Day	Last Day Water Used From	Maximum Number of Days Water Diverted France Watural Stream	Makinarii Number of Days Water Diverted from Reservoir.	Amount of Water from Reservoir	Average daily Amount Diverted From Natural Straggy in Second Fact	Number of Acre feet Diverted From Natural Stream	Number of Acres that Can be Irrigated	Alalfa	Irrigated Pasture
strict	IT Sec rect	Second Feet	in Miles	Naluval Stregny	Natural Stream	Natural Streams	Reservoir.			22977.7	26096	55/2	1823
10	66089			mar 2	nov 5	244		7304				5678	
11	105507	1180		may 15	Oct (1	306	81	84072	769.74	172005	3/029		
	65084			nov 1./945	Oct 31	354				108 913		4644.	
12				may 2nd	Oct. 1.	/72	117	3548	102.19	7901	10610	899	
/3	597.04			Nov 1-1945		359	/3/	94771	5 79.50	252474	117626	28180	
14	1968.43	2/74				240		328	72.5	18647	/2353	282/	
15	200.88	2/5.4		man 15			75		232.42	34930.	77308	12446	
16	1513.6	6 4452.96	6	april 1	Oct 31	2/4		74 7 7 2	1124	413 804	242539	64350	
17	215-39	15809		nav1-1945	- Oct 31	365	85	54783	//2/	7,000	7235	720	
18	4736												
19	/88/-8			Nov 1-184	5 Oct 31.	275	45	3990	/2.	29387.	50958	5118	
	22 39 3			nn 3-195	45 Oct 31	305	80	103 772		5 /42/98		/33/7	
67									3 461,4	8 /203236	.7 675754.	143685	
lals.	/3387.												
6													

	Natural Grasses	Cereals	Orchards	Gardens	Head Lettuce Cabbage Cauliflower	Tamataes		Melons Cucum bers	Sugar Beets	Corn	Peas Beans	Cane Sorghum Maize	Crops	Total Irrigated
10	3906	2186	/32	339		88			1059	2453	138	78	539	19765.
11	13357	5360	110	117		74							2797	29354.
12	1254	6095	2372	1181					155		11	1201	822	15814
/3	7830	255.	3	2									98	9839
14	36/4	34445	198	2656	33	3792	6951	4149	16181				1900	106 779.
15	1896	2006	20	10					88				57	6958
16	16638	//308	/83	23	15				1488		2/38	277	1968	51537
17	2555	29234.	84	5-25.		2394	4340	2219	11967	25856	3205	9868.	539	157/36
8	104	85											45	2074
9	4391.5	37//		111					1219				973	/5523
57	5250	19014	598	432			60	110	4461	9462	18	10909	/623	65254.
tals	60795.	113699	3700	5390	48	6340	1/35/	6528	36618	3777/	5510	22333	11361	480033