

1949

C. W. BEACH
DIVISION ENGINEER OF IRRIGATION DIVISION
NUMBER TWO
31 MASONIC BLDG.
P. O BOX 1423
PUEBLO, COLORADO

1949 ANNUAL REPORT

Pueblo. Colo. December 1, 1949

M. C. Hindërlider
State Engineer
Denver, Colorado

Dear Sir:

The 1949 irrigation season was favorable for crops. Yields were above the average.

The winter of 1948 and 1949 was cold. There was a light fall of snow in the mountains. However, several good falls of snow occurred in May that brought the runoff of snow water above the average.

The winter months were deficient in moisture. The spring was dry. The months of May and June had an excess of rainfall.. With this combination of heavy rainfall with a good runoff of snow water we were able to fill all reservoirs with the exception of the John Martin. We were also able to raise the John Martin reservoir to a capacity of 228000 acre feet after supplying all the needs of District 67 and Western Kansas. This was the second consecutive season that Eastern Colorado and Western Kansas were supplied from the John Martin reservoir without calling on the priorities of any of the canals above the reservoir. When the season was over a supply of 128857 acre feet was left in the John Martin reservoir for use during the 1950 irrigation season.

Below is a tabulation of the rainfall by months for 1949, starting November 1948, in inches.

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Nov 1948-1948	Dec 1948	Jan 1949	Feb 1949	Mar 1949	Apr 1949	May 1949	June 1949	July 1949	Aug 1949	Sept 1949	Oct 1949	Total Inches
0.01	0.25	0.27	0.17	0.79	0.93	3.32	3.12	1.97	0.42	0.38	1.41	13.04
Average												
0.36	0.50	0.31	0.49	0.59	1.31	1.60	1.36	1.94	1.82	0.75	0.66	11.67

The total rainfall at Pueblo was 13.04 inches which was 1.37 inches above the average. During the months of May and June the total rainfall was 6.44 inches which was 3.44 inches above the average.

The rainfall at Las Animas was 9.65 inches. The average is 12.29 inches. The rainfall at Lamar was 22.10 inches. The average is 15.35 inches.

There was a total of 76983 acre feet of reservoir and trans-mountain water run to canals near Pueblo and east of there. A charge of 8796 acre feet was made for this service. Reservoir and trans-mountain water play an important part in the irrigated agriculture of the Arkansas Valley.

A total of 48000 acre feet of trans-mountain water was brought over. On May 1st there was a total of 230175 acre feet in reservoirs exclusive of the John Martin. Of this 212898 acre feet was for agriculture. The remainder was for domestic and manufacturing purposes. The average for the past 29 years was 277500 acre feet.

On November 1st there was a total of 239345 acre feet in storage, exclusive of the John Martin. Of this amount 217778 acre feet was for irrigation and the remainder was for domestic and

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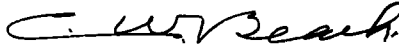
manufacturing purposes. The average for the past 29 years was 153414 acre feet.

Crops were good also prices although not as high as in 1949.

Hail storms were few and widely scattered and of small proportions. Insect pests were less numerous due largely to better method of control.

The records of this office are consulted almost daily for information about priorities, water rights and stream flow. As the years go by the records are becoming more valuable.

Yours truly,



Division Engineer of Irrigation Division #2

Storage in Major Reservoir 1949

	Nov. 1 st 1948	Dec. 1 st 1948	Jan. 1 st 1949	Feb. 1 st 1949	March 1 st 1949	April 1 st 1949	May 1 st 1949	June 1 st 1949	July 1 st 1949	August 1 st 1949	Sept. 1 st 1949	Oct. 1 st 1949	
10 Fountain Valley No 2	1351	1554	2223	3042	4094	4369	4244	4214	4570	4119	1647	1269	
10 Fountain Valley No 3	46	64	206	295	254	269	181	147	102	104	57	49	
10 Spring Run No 2	164	174	204	256	282	181	84	85	273	303	184	223	
10 Callahan	111	111	416	416	416	449	416	449	323	269	178	141	
10 Cheyenne Mountain	155	155	155	140	140	140	109	155	162	155	172	124	
10 Monument	256	256	289	324	256	289	324	256	412	371	289	225	
11 Sugar Loaf	6869	6727	7008	7372	7570	7570	7086	7786	17165	17098	8294	6110	
11 Twin Lakes	19071	19827	21112	22336	22868	23230	15413	16333	52357	48560	23515	17923	
11 Clear Creek	6439	6341	6832	7169	7445	7445	5182	4391	11165	10363	7162	6341	
12 Skaguay	1495	1201	1028	934	803	713	1183	1436	2065	2679	2314	2136	
12 Mount Pisgah	1191	1191	1253	1331	1361	1361	1361	1361	2105	2471	2383	2241	
12 Brush Hollow	979	947	1166	1192	1170	1568	2074	2463	2975	2427	1237	665	
12 City Colorado Springs	4773	4298	4142	3948	3286	3114	4451	3194	3976	5307	5240	5151	
13 Deweese Dye	1786	1644	2036	2828	4170	3912	3837	3762	4322	4322	3688	2917	
14 Teller	1328	1247	1225	1236	1192	1192	1106	1054	1619	1647	953	963	
14 Lake Henry	1724	1724	4757	6208	6355	5420	5420	5124	4850	3345	2414	2414	
14 Lake Meredith		6907	4946	12547	21848	21683	19462	14788	23486	19413	9559	7963	
15 Beckwith (Hayden)	390	367	319	340	511	511	558	497	908	891	789	741	
15 Lake Isabel	1038	1038	1038	1038	1038	1038	1038	1038	1038	1038	1038	1038	
15 Mitniqua	1132	1146	1336	1347	1335	1247	1212	1182	1116	1147	1049	1004	
15 C.F. + I No 2	2713	2651	2664	2667	2655	2674	2684	2638	2706	2664	2651	2664	
15 C.F. + I No 3	6713	8330	8112	7916	7629	7246	4354	7305	5804	5216	6066	7509	
16 Coler	621	621	612	621	724	672	672	672	1462	1605	1194	890	
16 Cucharas	8992	8330	8404	8409	8572	7984	7984	6472	11470	9664	6052	4282	
16 Bradford	0	0	0	0	0	0	0	0	0	0	0	0	
16 Huerfano Lake	180	180	180	180	750	614	595	470	817	883	504	752	
16 Crane-Holmes	Dam Out												
16 Lindsley	0	0	0	0	0	0	0	0	0	0	0	0	
16 Holita	0	0	0	129	158	158	158	158	320	432	67	43	
16 Valdez	500	500	500	500	600	600	500	500	900	900	1000	1000	
16 Dotson	300	300	300	300	400	400	400	300	900	900	400	400	
17 Dye	740	696	2695	2835	2763	2672	2592	2476	3079	2981	2300	2059	
17 Holbrook Lake	105	3269	4022	4010	3964	3847	3704	3735	4959	4866	3437	3115	
17 Horse Creek	4411	4173	4411	8354	15653	13123	11806	11842	23025	21546	10633	7845	
17 Adobe	31496	30867			30173		22468	22114	54772	57900	40527	35662	
18 Seven Lakes	200	200	200	200	300	300	300	300	800	900	500	600	
19 Model	0	336	742	1349	1602	1308	1280	703	4333	2436	369	1300	
19 Hermitosa	1167	1167	1167	1167	824	824	879	1049	1288	1288	1288	1288	
19 North Lake	761	672	612	573	508	431	503	724	870	870	870	858	
19 Monument	1181	1184	1144	1105	1066	1028	1028	1389	1429	1429	1429	1429	
67 Nee No Stree	}												
67 Nee Gronda		93415	93465	90276	89453	87087	80192	74265	73535	89453	102772	93465	90276
67 Nee Sopah													
67 Nee Skah (Queen)		10713	10713	10713	10713	10449	10317	9928	9675	16443	15521	12197	11108
67 Two Batters		9972	9972							24435	24435		21872
67 Thusston	0	0	1171	0	1150	555	9274	898					
67 Caddoa	156151	105425	117285	126479	138633	142606	124207	114125	211775	215966	166150	147411	

Number District	Natural Grasses	Cereals	Orchards	Market Gardens	Head Lettuce Cabbage Cauliflower	Potatoes Tomatoes	Onions Celery	Melons Cucumbers	Sugar Beets	Corn	Peas Beans	Cane Sorghum Maize	Other Crops	Total Irrigated
10	4385.50	2366.20	193	347		301			475	2074	20	60	1874	20731.5
11	11937	5535.	236	102		219							3225	24676.
12	2489	5931	3046	1295					50		65	392	811	21449.
13	14260	1474		15	2	3						15	15	17080.
14	3458	13341	141	2258	92	70	5590	2247	10805	28025	1914		1983.	106102.
15	2979	1587		6							10		574.	8729.
16	17569	12054.	102	116	14		42	273	1091	80	1232		885	49342.
17	4504	30817	75	416	50	1492	4280	1834	8240	34847	2197	7013	1249	160666.
18	1970	1197								150				4874.
19	9591	10451		37					898	1658	164			31593.
67	3738	19840	541	386			635	785	2743	12364	264	12680	812	69668.
Totals	76880.50	104574.	4334	4978.	158.	2085	10547.	5139.	24302	79198.	5816.	20142	11428	504605.

Number District	Amount Appropriated in Sec Feet	Capacity of Ditches in Sec. Feet	Length Main Ditches in Miles	First Day Water Used From Natural Stream	Last Day Water Used From Natural Stream	Maximum Number of Days Water Diverted From Natural Stream	Maximum Number Days Water Diverted From Reservoir	Amount of Water Diverted From Reservoir in Acre Feet	Average Daily Amount Diverted From Natural Stream Second Feet	Number of Acre Feet Diverted From Natural Stream	Number of Acres That can be Irrigated	Alfalfa	Irrigated Pasture
10	655.14			March 1 st	Nov. 10 th	232	211	7563	160.5	43719.	27509	5423.7	3217
11	291.80	286		April 7	Oct 31	210	99	74373	543.1	100825	38037	5224	
12	1068.25	582.01		Nov. 1-1948	Oct 31-1949	365	23	725.	770.79	130140		6748	622
13	538.19			May 3 rd	Sept 20	133	66	1762	20441	26305	17226	877	
14	1976.15	2243.0		Nov. 1-1948	Oct 31.	326	100	65050.	102070	255051	116499	34576	
15	187.50	183.60		Nov. 1-1948	Oct. 31-1949	307			10085	27072.28	12033	3239.	
16	1515.64	5031.56		April 1	Sept 30	183	82	7460	718.24	125379.20	96404.	15884.	
17	21541.87	21029.		Nov. 1-1948	Oct 31.	361	54	54153	1573	592200	250661	63672	
18	389.06										8825	1557	
19	1903.36			Feb 3 rd	Oct 31	318	112	11370	173.8	58472	71338	8804	
67	2333.06			Nov. 1-1948	Oct 31 1949	309	199	213852	582.50	207986		14564	
Totals	32400.02	29354						436308.	5647.92	1567143.48	638582.	160578.7	3839.