

1948

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

December 15, 1948.

1948
ANNUAL REPORT

M. C. Hinderlider
State Engineer
Denver, Colorado

Dear Sir:

The winter of 1947, and 1948 was one of exceptional cold. There was a good fall of snow in the mountains. Also there was an exceptional fall of moisture in the Spring months.

March had a rainfall of 1.82 inches. The average for March is 0.59 inches.

The ground was so wet that it interfered with the planting of onion seed, otherwise conditions were favorable for Spring crops.

From January 1st, to June 30th there was an excess of moisture of 3.97 inches. The snow runoff coupled with the extra rainfall in the Spring furnished a good supply of water for irrigation.

We were able to fill all reservoirs with the exception of the John Martin. After supplying all the demands for direct irrigation, and reservoirs we were able to capture 243,000 acre feet in the John Martin Reservoir.

Water District Number 67, and Western Kansas were entirely supplied with the waters of the John Martin Reservoir. This enabled the upper canals to utilized the waters of the Arkansas River.

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Below is a tabulation of the rainfall at Pueblo, with a comparison of the average.

Nov 1947	Dec 1947	Jan 1948	Feb 1948	Mar 1948	Apr 1948	May 1948	June 1948	July 1948	Aug 1948	Sep 1948	Oct 1948	Total
0.42	0.55	1.45	0.58	1.82	1.32	2.02	2.44	0.55	3.01	0.17	0.10	14.39
<u>AVERAGE</u>												
0.36	0.50	0.31	0.49	0.59	1.31	1.60	1.36	1.94	1.82	0.75	0.66	<u>11.69</u>
Excess Inches.....												2.70

The total rainfall at Pueblo was 14.39 inches. The rainfall at Las Animas was 13.33 inches. The average is 12.59 inches.

The rainfall at Lamar was 12.59 inches. The average is 15.39 inches.

These figures show a variation of rainfall over the District, but they agree on a surplus during the growing season.

On July 5th, reservoir storage was stopped, and ditches were regulated by their decrees.

When the irrigation season was over, a balance of 100,000 acre feet was left in the John Martin Reservoir, as a carry over for the 1949 season.

The John Martin Reservoir was officially completed in October 1948, and it is now possible to utilize the allowable storage capacity of 402,110 acre feet for irrigation.

A total of 27,200 acre feet of trans-mountain water was brought over, and more could have been obtained had there been storage space for its capture.

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On May 1st, a total of 474,626 acre feet of water was in storage. Of this amount 452,050 acre feet was for irrigation. Average storage for May 1st, for the past 28 years is 279,188 acre feet.

On November 1st, there was a total of 324,688 acre feet in storage. Of this 302,900 acre feet is for irrigation purposes. More will be obtained during the winter months. The average for the past 28 years is 147,486 acre feet.

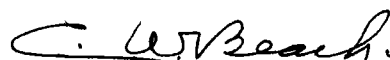
A total of 54,833 acre feet of reservoir, and trans-mountain water was run to canals near Pueblo, and east of there. A charge of 6,399 acre feet was made for carrying this water.

On the whole the season was favorable for growing crops, and harvests were good. A few districts had disastrous hail storms, and some districts suffered from insect pests. More efficient methods of fighting insects are being used.

Prices for farm products were lower than in 1947. We have endeavored to keep up a careful inspection of all dams to end that no failures occur, and property is protected.

The records of this office are consulted daily by people seeking information about canals, and reservoirs.

Yours Truly,



C. W. Beach
Div Engineer of Irrigation
Div #2
31 Masonic Building
Pueblo, Colorado

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	4073	2114.	223	520					6915	1807	176	56	3770	20381
11	11785	6090	416	127.		37							1221.	28416
12	2270	6738	3216	1375					145		135	1294	724	22970.
13	14289	1721	1	5	2								12	18479
14	3591	43018	195	2326		2634	4799	2094	10801		1775		1160	103000
15	2511.	1399	13	1									204	7628
16	19707	9938	98	31	17		34	517	927		1622		663	49090
17	1394.	35102	90.	394.	38	1875	3952.	2133.	8831.	31168	2029	3757.	3213.	158038.
18	1670	1249								235	90			5760.
19	8235	6338		51					928	1146	110			26405
67	3997	18458	536	305		370	83.	560	3105	12108	46	11735	950	67299
	73522.	132165	4789	5135	57	4549	8868	5304	31652	46464	5983	16842	11917	507466.

Number District	Amount Appropriated in Sec. Feet	Capacity of Ditches in Sec Feet	Length of 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 of Days Water Diverted from Reservoir	Amount Water Diverted from Reservoir in Acre Feet.	Average Daily Amount of Water Diverted from Natural Stream in Second Feet	Number of Acre Feet Diverted from Natural Stream	Number of Acres That Can be Irrigated	Alalfa	Irrigated Pasture
10	655.14			April 3	Nov. 10	186			183.26	44236	27474	5906	2727
11	1095.19	930.70		Nov 1-1947	Oct 31	365			582.10	166313	40283	5480	
12	727.49	646.37		Nov. 1-1947	Oct 31	365	13	134	385.41	135662		6705	368
13	535.55			May 1.	Oct 1	154		2739	274.13	33046	18522	1480	
14	1960.95	2250.		Nov 1-1947	Oct 31	340	45	56779	756.25	328146	117114	3454	
15	183.00	201.1		April 1.	Oct 31	366.			140.73	28405.	12017	3220	
16	1439.96	4903.60		April 1	Oct 31	183	48	9460	437.98	99288	96206	15441	
17	17398.23	15111.		Nov. 1-1947	Oct 31.	353.	57.	40117.	1159.	599512.	228710.	62615	1447
18	388.63			April 1	July 31		60	500.			9726	2516	
19	1882.01			Nov. 1-1947	Oct 31	295			155.66	55590	51253	9597	
67	2390.06			Nov 1-1947	Oct 31	322	215	267822.	592	261084.	67300	15413	
	28648.21			Nov 1-1947	Oct 31	366	215	377551.0	4566.52	1751282	668605	131771.	4542.

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377551.0

1751282

668605

131771