# C. W. BEACH <br> division engineer of irrigation division <br> NUMEER TWO <br> PUEBLO, COLORADO <br> 3) MAEONIC ELDG. <br> P.O. BOX 1423 <br> 1946 Annual Report 



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.

| Nov | Dec | Jan | Feb | Mar Apr May June July Aug | Sept Oct Total |  |  |  |  |  |  |
| :---: | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 1945 | 1945 | 1946 | 1946 | 1946 | 1946 | 1946 | 1946 | 1946 | 1946 | 1946 | 1946 |
| Inches |  |  |  |  |  |  |  |  |  |  |  |

# C. W. BEACH <br> DIVIGION ENGINEER OF IRRIGATION DIVIEION <br> NUMEER TWO <br> PUEELO, COLORADO <br> A HASONIC 日ltog. <br> - \%. \#ox 1423 

(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 lialf days of general storage during the heavy rainfall in the latter part of August. This water was all run out immediately after.
an unusual snow occurred on November lst, 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 betts 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 gettiag 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

C. W. BEACH

DIVIBION ENGINEER OF IRRIGATION DIVISION
NUMBER TWO

PUEBLO, COLORADO 31 MASONIC BLDG. P. O. BOK 1423
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 lst 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 list 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 Vivian 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 loth, and completing the run at
C. W. BEACH

DIVIBION ENGINEER OF IRRIGATION DIVIBION
NUMEER TWO

PUEELO, COLORADO
31 MASONIC BLDG.
P.O. EOX 1403

## (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 $1 \mathrm{~A} . \mathrm{M}$. November 7th, 1946 when storage was again allowed, and will continue until fpril lst, 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,


Division Engineer of Irrigation Division No. 2

Tabulation showing Amount of stored water in acre fuct
on the finst of each vinich of Nejor resecvairs in Snegation seivizion Ne $z$.




