STUDIES OF IRRIGATION METHODS FOR SUGAR BEETS IN NORTHERN COLORADO

H. E. BREWBAKER

The problem of efficient application of irrigation water is one of paramount importance to the irrigation farmer. With a shortage in reservoir supply, such as occurred in 1931 and 1932 in northern Colorado, and with a limited direct-flow water right, it is necessary for the irrigation farmer to choose carefully the best method of applying the water at his disposal.

It is a natural tendency in an area characterized by fairly adequate spring rainfall to delay the first application of water as long as possible. This is especially true of the farmer who depends in part or entirely on water stored in a reservoir, and who through deferring the

1Contribution from the Division of Sugar Plant Investigations, Bureau of Plant Industry, U. S. Dept. of Agriculture, in cooperation with the Colorado Agricultural Experiment Station, Fort Collins, Colo. Received for publication April 13, 1933.

2Associate Agronomist. Grateful acknowledgment is made to A. W. Skuderna and G. H. Coons, Principal Agronomist and Principal Pathologist, respectively, Division of Sugar Plant Investigations, U. S. Dept. of Agriculture, for helpful suggestions and criticisms in connection with the conduct of the study and preparation of this manuscript, and to R. L. Parshall, Senior Irrigation Engineer, Bureau of Agricultural Engineering, U. S. Dept. of Agriculture, for suggestions in planning certain phases of the study.

Published March, 1934