

DAVIS COUNTY PIONEER. er Lavton, a rio

has given a wonderful impetus to the pursuit of arid farming in the State of Utah this year. Through the aid rendered by the State Legislature in the establishing of six experimental farms in Utah the agricultural investor MOISTURE CARRIED OVER. The experimental farms have demonstrated that by proper methods, a certain percentage of moisture can be carried over from one season to another. They have demonstrated that the timest wheats are those grown on dry land; that summer fallow is an essential practise in this locality to successful dry farming; that the amount of seed used on the dry lands should not exceed 45 pounds to the acre; that fail plow-ing is absolutely necessary, and that the ground must be kept entirely free from weeds. The publication of the results of these experi-ments has been the means of attracting hundreds of new settlers to Utah. All of this work has peropriation of \$10,000 per annum. HONOR ACCORDED UTAH.

county, more than 40 years ago showed that the ridge between Salt Lake City and Ogden would produce wheat without the application of water Mr. Joshua Salisbury of Wellsville, George L. Farrell of Smithfield, and many other prominent farmers of northern Utah, early saw the great opportunity this method of farming afand gained their livelihood from the forded. sage brush lands above the irrigation canals. In the early ninetles, dry farming flourished in the northern counties of this state, but the people of the central and southern part looked upon it as a practise which could never extend below Salt Lake City. It has only been within the past few years that a few venturesome farmers attempted dry farming in the central and southern part of the state.

### STATE INTERESTED.

Some seven years ago the state legislature come to the aid of this enterprise, and established six experimental farms, all south of Salt Lake City, and at widely varying points. The experiments on these farms were carefully planned, and the results obtained were so wonderful that it took a vigorous hold on the public imagination. Today there are few people in the state who do not honestly believe that dry farming has come to be one of the permanent institutions of Utah, and that the method, so long in vogue, of irrigating wheat and other cereals, is soon to pass history.

### SMOOT HOMESTEAD LAW

The year 1909 has seen a wonderful progress in dry farming. The passage of the Smoot home-stead law, whereby the settlers is enabled to secure 320 acres of land from the government without being required to live upon it, but obtained under much the same provision as the old homestead act, has given a wonderful impetus to this industry. Thousands of acres of land have been secured under, this act, and many thousands of acres of sage brush land have been cleared, plowed, and prepared for crops.

# PROMPTLY SNAPPED UP.

Up in the northern end of the state the Hon. Joseph Howell, David Eccles, and other prominent citizens, secured several hundred thousand acres of dry land in north-western Boxetder county, from the Southern Pacific railroad, and these lands have been offered to the public. A number of public sales have been held, and the eagerness with which these lands have been purchased, has been a source of astonishment even to the most optimistic dry farmer. Sage brush lands have exchanged hands in some instances, has become decidedly interested in the problem of raising crops on what heretofore has been classed as practically worthless desert lands. Dry farming has now passed the experimental stage and has attained the dignity of one of the permanently established industries of the state which bids fair to surpass all others when the initial outlay of cash and the revenue accruing are taken into consideration.

Dry farming is not new in agricultural practice, for as early as 1865 there were Scandinavian dry farmers operating in Utah successfully, while the cultivation of arid lands has been practiced for centuries in Egypt and India.

This season past has seen crops of 30 bushels of wheat to the acre harvested from thousands of acres in Utah. At the prevailing price of the staff of life this means practically boundless wealth awaiting the enterprise and industry of man with the nerve to combat the waste places of the Beehive State.

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in the neighborhood of \$15 per acre, and these are lands that are so situated that they cannot be irrigated, This fact shows the faith of the people in the northern counties in this industry.

### CEDAR VALLEY'S WEALTH.

In the central and southern portions of the state, there have been no sensational movements along dry farming lines, but there has been a healthful and normal increase in the number of acres of land brought under cultivation. For the first time, the farmers who have located at Cedar Valley have reaped splendid returns for their efforts in reclaiming those desert lands. Mr. L. E. Hall, city councilman of Salt Lake City, associated with Pres. James Clark of Lehi, have a fine tract of land in the northern end of Cedar which this year yielded in the neighborhood of 30 bushels per acre. Messrs Chipman. Evans, and other Utah valley farmers who interested in Cedar Valley, also had a large tract which gave a very satisfactory yield.

### SUCCESSFUL IN JUAB.

In Juab county, where the industry has been flourishing to a greater extent than in any other part of the state, in recent years, the farmers been wonderfully successful. The precipitation during the growing months of May, June, and July, rather discouraged the farmers there, and they feit for a time that failure was certain. The precipitation for May was but .62 of an inch, as compared with 3,64 inches for the same month in 1908; 1.76 for the same month in 1907; and 2.92 during the same month for 1906 In June the precipitation was but 17 of an inch. while last year during the same month it was .64, in 1907, 1.58, and in 1906, .43 of an inch. In July the precipitation was but .89 of an inch. This year the light precipitation during the growing months caused the farmers considerable uneasibut at the time of harvesting it was found that the crops were entirely satisfactory.

# SOME TYPICAL CROPS.

A Mr. Christensen, formerly county treasurer of Juab county, purchased a dry farm near Nephi, a little more than a year ago. The field was put in an excellent state of cultivation, and the first year's crop brought him 30 bushels to the acre which readily sold at \$1.00 per bushel. The Grace Brothers were very successful this year, as was also Mr. James Paxman, and many other dry farmers on the Levan Ridge.

It is at this point that the Utah Arid Farm company has its splendid farm of over 8,000 acres. During this past year they had nearly 2,000 acres in wheat, and it is said that the returns were very satisfactory. The wheat was clean and plump and found a ready sale at \$1.00 per bushel.

There is a great movement in dry farming down at Enterprise, and a great many Salt Lake people are interested in the land there. The season has been a very dry one, there not being a trace of moisture during May and June, but the record for August shows 2.55 inches and for September 2.76 inches, so that it is apparent that the crop for next year has a most excellent start.

# UNDEVELOPED SAN JUAN.

The great undeveloped dry farming section of the state is to be found in San Juan county. There are millions of acres of the choicest land in the state to be found there, and there is a splendid precipitation. During 1906 the precipitation Verdure was 25 inches, during 1907 it was 14.88 inches. The records for this season are not available at this time, but from the records we have, we are sure that the precipitation is higher there than at practically any other point in the state. The state experimental farm at Verdure has yielded as high as 50 bushels per acre by dry farming methods. San Juan county is a great empire. and in the not far distant future, this wonderful county will be the granary of Utah. There have been some enterprising young men

go into that section during the past year, and they are making considerable progress in reclaiming the sage brush land there.

### TOOELE'S RECORD.

In Tooele county the industry has been very successful. The precipitation at Tooele is about the same as at Salt Lake, averaging each year in the neighborhood of 14 inches. The precipita-tion during 1908 was 13.59 inches, and up to Oct 1st, this year, the precipitation is 10.37 inches, so that it is very apparent that the precipitation this year will be up to the average. The writer has taken several trips through that section during the past summer, and finds that each succeeding year sees more land brought under cultivation.

# THE EXPERIMENTAL FARMS.

The first experimental farms to study problems connected with dry farming, it is said, were started by the state of Colorado in 1894. For lack of funds these stations were abandoned, and it is to the State of Utah that the honor belongs of having first established and successfully maintained a series of dry land experiment stations. Since the year 1895 the reclamation of the deserts without irrigation has been the subject of much discussion among the officers of the Utah experiment station. In 1901 a system of investigations was begun by Dr. Widtsoe and the writer, and in 1903, Governor Wells recommended in his message to the legislature, that experimental dry farms be established. Six of these farms have been maintained, each farm consisting of 40 acres. The citizens of the state have taken considerable terest in the work, which has simplified the inauguration of experimental work, and the suc-cessful prosecution of the investigations. The farms are under the direction of the Utah experiment station.

PLANTED TO TURKEY RED WHEAT. The farms at Tooele, Enterprise, Parowan, Rich-

### HONOR ACCORDED UTAH.

HONOR ACCORDED UTAH. At the last Dry Farming congress held at Billings, Montana, the honor was accorded Utah of being the tioneer in dry farming work. The excellent work done by the Utah experiment station in these investigations, has called the at-tention of the people throughout this whole country, to the possibilities of this great industry. In the not far distant future, this country will be as thickly populated as the countries of the Oid World. Every one of its inhabitants will have to be fed and clothed, and the food and clothing will have to come from the soil. Our valuable irrigated lands are to be used for the production of more valuable crors. Fruit growing and dairy-ing are two agricultural industries yet in their infancy in this state, and the cereals must be grown on our arid lands.

# DEMONSTRATED SUCCESS.

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