# Irrigation in the

cess Magazine, tells of Reclamation of the American Des-

In colonial days the sturdy settlers took an average of four hundred acres of land. Though land poor, they prospered. The homesteader got his one hundred and sixty acres. He plowed what he could and reserved what he could not. Cultivation was extensive, superficial; no more labor or capitol was put upon the land than was necessrry, for labor was scarce and capital scarcer.

The first men who crossed into arid America played the game occording to the old rules-and lost. They took their quarter sections, one or as many as they could acquire. They cultivated what they could, and held the rest for the inevitable increase in value. But the inevitable did not happen. One year, two years, of ample rain then the drought. The settlers were dismayed. Without rain nothing would grow, and who under the over-arching firmament could compel the rain? There were men, stimulated by the great need who tried. The clouds were bombarded by cannon shots; dynamite was exploded in the praries of Texas. "The result," as Secretary of Agriculture Rusk, described it, "was a great noise," The light, fleecy clouds remained

sterile. Imagine your last cent, your last ounce of energy, your last hope for yourself and family, invested in those treacherous farms on the border of the arid belt, and realize the crushing, heartbreaking disappointment of the mer who could not compel the rain. They did not, give it np. They struggled against the arid conditions, buoyed up by the cheerful word of the oldest inhabitant Not for a moment would the farmers admit that the land was arid Unaccustomed to the new conditions, they did not know enough to come in "when it does not rain."

And yet these disheartened farmers were on the verge of an import- farmers planted oranges. In ant discovery. They were to witness the 'miracle in irrigation.' It was no new thing. It was older than the Anglo-Saxon race, older even in America than many of the men who prayed for the rain. acre, But it was new in Western Kansas. And this is the way-so runs the

In the year 1878, thousands of acres had been planted to wheatin Finney County, and in sober anticipation a grist mill was erected the seed died; the grist mill was abandoned. But one settler, versed irrigation. in the method of irrigation, obtained permission to use upon his land waters of the abandoned mill race. His land became wonderfully fruitful, the news of the exper- the land so rough that it is well iment spread far and wide, and nigh impossible to transport the Western Kansas admitted its aridity, gloried in it, and became a fuel or cement. Wood is often convert to irrigation.

ly adopted on the Western prairies mud. The sudden floods bear just across the ninty-seventh parallel. Canals were built from the hopes of the dam builders. Arkansas River, more than four carry out the great irrigation prohundred miles of them being con- jects now required, if we are to restructed at a cost of nearly three claim the arid lands of America, million dollars. Then the men "higher up", the irrigators of Col- large capital, and a willingness to Office orado, diverted the precious waters wait years for a return on the into their own uses, and Bill Nye's vestment. joke became a joke in sober earnest. The Western rivers, he had said, are "a mile wide and an inch deep; they have a large circulation

but very little influence." Then the Kansas men went deeper. They used the underflow. Wells were sunk, windmills, kept in operation by the tireless prairie winds, furnished power, and the arid land was irrigated. The little farms were extensively outtivated and became profitable, and in a short time irrigation with the underflow waters became more successful than it had formally

been with surface waters.

But the farmers of the arid United States prairies were not the pioneers of American irrigation. The Indians Walter E. Weyl, in the Suc- had irrigated in Arizona before Columbus was born, and in Utah

> 1847 that the Mormon caravan, with its scores of wagons, horses, derful picture that the fleeing men applied for are situated. saw-the broad, flashing valley sloping toward the inland sea, the legal sub-divisions of sections, and mountains lifting their snmmits to in unsurveyed territory the tract the clouds, the clear transparent applied for shall be staked out. air resting upon the narrow silver Each application must be acthread, the river, which flowed like companied by a fee of \$5, which the Jordan from the fresh lake to the salt lake.

ham Young. "Here we will rear mine at the rate of five cents per our temple in holiness to the Lord.' ton. The prospect of any but an imagwith agricultural implements. least once in each year. The barren land was covered with The lease will include the coal of the stream, planted their first on subsequent crops the Mormons Agent of Dominion Lands. erected an agriculture, a city, and

What was done in Utah was re peated in other states. In Colorado the Greely Colony, inspired by ideas of a Utopia, succeeded in irrigating a portion of the land and persons are cautioned against of founding prosperous homes for giving her any credit on my achomeless people. What they aimed at was the regeneration of society; what they obtained was the famous Greely potato. The Rockford mellons grew upon unreclaimed arid land. In Southern California, at Anaheim, a little group of German mechanics and small tradesmen proved that 1rri gation and cultivation of arid land pays. At Riverside a colony bought for two dollars and a half an acre, lands that had been valued at seventy five cents, and upon these lands when irrigated, the few years the unimproved lands sold from three hundred to five hundred dollars an acre, and the improved farms as high in some

Millions of acres of land have been reclaimed from the American story-that irrigation came to the desert, and this land once worth less than a dollar, now sells for a hundred, a thousand, and two thou- ris Jr. sand dollars an acre. Wherever it was easy to water the land, irrigation has taken place. But now the to grind the crop. The rain failed; little streams are all taken, and the nation faces the big problem of

cases, as two thousand dollars an

Now it is a problem of great dams, costing millions and even tens of millions of dollars. Sometimes the place is so isolated and necessary heavy articles, such as unobtainable, and the sand is of Thenceforth irrigation was large- a poor quality and mixed with away the half built dams and the six things are required; time, patience, skill, special knowledge, a



### SYNOPSIS OF Coal Mining Regulations

Coal mining rights of the Dominion, in Manitoba, Saskatche wan, Alberta, the Yukon Territory, the the Mormons had begun irrigation North-West Territory and British All Orders Promptly Attended to. before the close of the Mexican Columbia, may be leased for a term of twenty-one years at an an-It was on a hot summer day in ual rental of \$1 an acre. not more than 2,560 acres will be leas-

Application for a lease must be mules, oxen and cows, entered the made to the Agent or Sub-Agent Graduate and qualified Physician valley of Salt Lake. It was a won- of the district in which the rights

In surveyed territory the land 

will be refunded if the rights applied for are not available but not otherwise. A royalty shall be paid "Here I shall rest," said Brig- on the merchantable output of the

Every lessee of coal mining rights which are not being operinative man would have been dis- ated shall furnish the district acouraging. The fugitives had no gent of Dominion Lands with a money, and were poorly supplied sworn statement to that effect at

white alkali, and so hard that the may be permitted to purchase plow would scarce enter. It was whatever available surface rights with some misgiving that the fug- may be considered necessary for itives, after pouring on the water the working of the mine at the rate J. M. WIGHT

For full information application stock of potatoes. But the land should be made to the Secretary did not withhold its fruit, and up- of the Department of interior, on the first bountiful crop and up- Ottawa, or to any Agent or Sub-

Deputy Minister of the Interior. SHOP ONE BLOCK WEST OF CAHOON

### CAUTION

My wife, Elinore Vadnais, having left my bed and board, all count as I will not be responsible for any debts incurred by her.

RICHARD VADNAIS.

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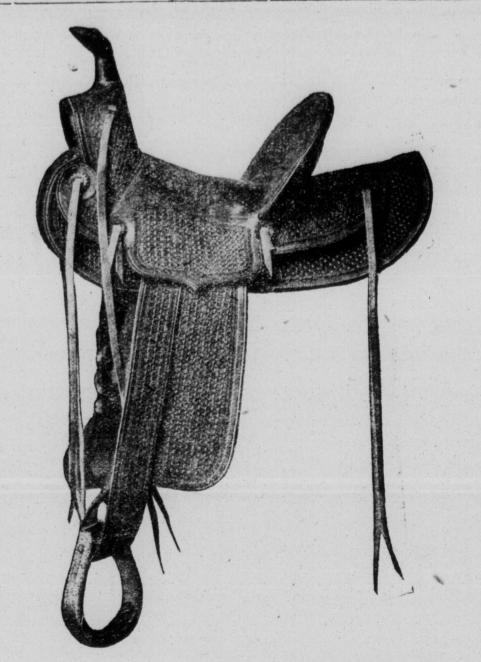
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## **Salvation Army Immigration Restricted**

Colonel Lamb, head of the Salvation Army's Emigration Bureau, is reported as stating that that there is a standing army of unemployed in England of 600,000 to 800,000. The Army are endeayoring to relieve conditions by finding employment in the colonies as far as possible; or, if not there, in some English-speaking country, or failing that, wherever a man can earn an honest living. They are not seeking to "dump" emi-- - W. C. Simmons grants, however. Out of 100,000 applicants last year they selected 20,000 as desirable immigrants, and out of these sent only 6,000. Only 6,000 were sent to Canada last year as against 15,000 the previous year, and many of these were wives and children of men who had come out the previous year and settled on the land. In regard to the prospect for next year, the headquarters staff has been advised that there are no openings in Canadian farms or cities, except for properly-selected farm and domestic help. Seven steamers chartered for this year have been cancelled.



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