

## Preparing Lands for Irrigation

**METHODS OF GETTING RID OF SAGE BRUSH, SMOOTHING GROUNDS, ETC., BROUGHT TOGETHER AND DESCRIBED.**

**Tools and Instruments Used—Purpose is to Afford Beginners Reliable Guide as to Cost of Bringing Wild Land Under Cultivation and Methods Best Suited to Different Soils and Conditions.**

The U. S. Department of Agriculture will soon issue Bulletin No. 145, of the Office of Experiment Stations, describing the methods of preparing land for irrigation and applying water to crops in different sections of the arid region of the United States. In this bulletin the method of getting rid of sagebrush, smoothing the ground, building laterals, and distributing water over fields as developed by the experience of farmers in irrigated districts are brought together and described. The tools and instruments used are illustrated and the cost of the work, based upon actual examples in different states, is given. The purpose is to afford beginners a reliable guide both as to the cost of bringing wild land under cultivation and methods best suited to different soils, climates, and crops. The facts included in this bulletin have been gathered by irrigation investigations of this office, acting in co-operation with the state experiment stations and state engineer's offices.

The bulletin brings out the fact, not well understood, that the cost of preparing land for irrigation is in many instances greater than the cost of building canals and reservoirs. Detailed figures of the cost of checking land show that it varies in certain districts in California from \$9.96 to \$18.08 per acre. This is more than twice the cost of canal systems in the San Joaquin Valley, California, which is given in the report of the Census Bureau for 1902 as \$4.99 per irrigated acre. Where the preparing of land is contracted for the cost of checking varies from \$7.50 to \$29 per acre. The price of preparing land for flooding is much less, but is \$5 per acre in Wyoming. The need of a better understanding of this particular branch of irrigation practice is becoming more and more important. Reservoirs and canals are but means to accomplish a purpose. That is to increase the products of the soil. The value of the ditch or reservoir depends upon the acreage of land which the use of preparing land brings about. The time is coming when the most important problems connected with irrigation will be the best means of applying water and not, as at present, those of canal and reservoir building.

About thirty different methods of applying water are now in use. This does not mean that there are thirty distinct systems, but includes the different ways of preparing land for checking, compartments, deep and shallow furrows, flooding, sprinkling, and sub-irrigation. This bulletin gives some of the results of a series of evaporation in deep and shallow furrows 12 inches deep. About one one-half times as much water was needed to irrigate an acre of land by flooding as was required in furrows 12 inches deep. About one and one-third times as much water was needed to irrigate in furrows 3 inches deep as in furrows 1 foot deep. A saving of one-third the water by the adoption of a better system would mean not only increased profits to farmers but a large increase in the acreage which could be irrigated from canals or reservoirs.

### AMERICAN BEATS KAISER.

Kiel, Tuesday.—In the race for big yachts today the schooner yacht Ingomar, owned by Morton F. Plant of New York, came in first and Emperor William's Meteor III, finished third. The emperor was on board the Meteor III, and Cornelius Vanderbilt and Robert Golet were among his guests.

## Hadden-Rodee Co. In Difficulty

**LOCAL BROKERAGE FIRM OF MILWAUKEE, HOUGHTON AND HANCOCK IN FINANCIAL TROUBLE.**

**Meeting of Creditors Called for Yesterday—Belief is That They Will Pay Out in Full—Embarrassment Caused by Failure of Woodend & Co.**

A meeting of the creditors of the Hadden-Rodee company of Milwaukee which has a local brokerage and commission house in Houghton and Hancock, was called yesterday. Manager W. A. Muir of the local office being informed of the fact by wire. The following messages received by Mr. Muir tell the story.

Owing to steady withdrawal on account of the W. E. Woodend failure we have decided to call a meeting of all creditors to make a settlement with them and until this settlement is made we will continue to run, but under the name of the Hadden-Kennedy Co., a new corporation. This company is being formed with a view of protecting our plant and traders, until such times as the Hadden-Rodee affairs are in shape, then we will go back to the Hadden-Rodee Co.

We wish you would try and satisfy your traders and you come in with them to the meeting. Of course all trades will be closed of the Hadden-Rodee Co. and new trades will go to the new company.

P. D. KENNEDY...

All managers: Referring to our letter of this morning, relative to calling a meeting of the creditors, you must not take this matter too seriously. This is the very best in the country we have had to do at times. For instance, Cudaby had to call a meeting of his creditors and in a short time had the matter settled in full. This we can do and in this instance it has not been caused by any mismanagement of the company, but through the failure of other people, for which we are in no way responsible and, of course, could not help.

Our company has a good standing and we have always tried to do right by everybody and sincerely trust, as stated before, to be able to make a satisfactory settlement and resume the Hadden-Rodee company in a few days. We wish you would have a good talk with your creditors and try to get them to come to the meeting, for as you know if they take any drastic steps they would gain nothing in that way. It would simply make it necessary for us to throw the Hadden-Rodee company into bankruptcy and get 51 per cent of the traders to sign an agreement to make a settlement.—E. L. Bradbury.

Manager Muir said yesterday that he believed the affairs of the company would be straightened out so that the creditors would be protected from loss and he thinks that there is no necessity for misgiving on the part of local people who are interested.

It was said yesterday that the withdrawal of the Rodee interest in the company is one of the reasons for the present condition of affairs.

### NOTICE.

The call of \$2.00 per share on 70 of Junction Development company stock No 556, in name of J. H. Wickware and endorsed by him, has not been paid. This notice is published in order that the holder of the same may protect himself and pay call at once. The above company do not wish to sell out any stockholder if it is all possible to trace the stock.

FRANK J. GRAY.

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 Cananea, Mexico.  
 Careful attention paid to handling all kinds of goods.  
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## Sugar Beet Acreage of U. S.

**OVER-PRODUCTION AND FIERCE COMPETITION CAUSED CONSIDERABLE ANXIETY.**

**Information Compiled and Published by the International Union for Sugar—Statistics Furnish Figures That Are Pretty Nearly Correct.**

(Special to Review.)

Washington, Tuesday.—United States Consul Deiderick, at Berman, Germany, in report to State Department on "Sugar Beet Acreage in Europe," says:

During the past winter considerable anxiety was felt by people interested in the beet-sugar industry in Europe. The agreement of the Brussels convention had gone into effect in September, 1903. All the direct bounties had been cut off, but the sugar prices would not adjust themselves to this change, as had been expected. The market prices were below the cost of production in some countries, where sugar had to be sold at an absolute loss. Almost every country in Europe had sugar to sell—some of them even from old surplus stocks. Over-production and fierce competition existed everywhere; hence the leading sugar manufacturers claimed that nothing short of a positive reduction of acreage all over Europe would bring the beet-sugar business back to a paying basis. In the meetings of the various associations the farmers were told that fewer and cheaper beets in the coming season alone could save the sugar industry from ruin, and that they had better devote more attention to the cultivation of flax, grains and other products. But all this fine and cry does not seem to have made a very deep impression, as will be seen from the following table, showing how large an acreage in Europe has again been sown to sugar beets. This information has been compiled and published by the International Union for Sugar Statistics, or, in other words, by a combination of all the sugar factories of Europe; which are in the best possible position to furnish figures that are pretty nearly correct.—The area planted is given in the table, with comparisons with 1903:

Country.	1903-4.	1904-5.
	Acres.	Acres.
Germany	1,027,589	1,016,561
Austria	757,632	793,294
France	53,998	467,249
Russia	1,295,891	1,263,972
Belgium	142,083	112,196
Holland	99,888	88,892
Sweden	70,997	61,467
Denmark	38,795	34,595
Italy	123,550	84,015
Total	4,210,125	3,861,561

It will be seen that the sowings this spring have been only about 6 per cent less than they were last year. The amount of sugar that will be grown from this immense field of 3,861,561 acres of sugar beets is an unknown quantity; but as we take the yield of last season as an average one and have fair weather from now till October, we may look for about 5,520,000 tons of beet sugar in the coming



Ernest Rappold.

## AMERICAN WORKMEN.

TOILERS IN OUR FACTORIES.

NO workmen in the world can do so much or use the same intelligence that our own American workmen and women are capable of. That is why America is now beating the world in manufactures; all due to the brain and muscle of our Yankee men and women.

Unfortunately where there is smoke, dirt and dust and little sunlight there also can be found the germs of disease. Nature's great disinfectant is sunlight. Sunlight and fresh air promote the growth of animals and plants but kill germs of disease. Air, free from dust, such as we have on the sea, never permits the germs of disease to have any chance for growth and development. It is in the factory, the work-shop, the office, that men and women suffer from diseases which are in the dust and the bad air. Such disease germs enter into the blood in two ways, either through the lungs or stomach. If the blood is pure and rich, the liver and stomach in healthy active condition, the germs of disease cannot find a resting place there to multiply. Disease of the lungs, bronchitis and consumption, are very apt to spread through a factory where there is much fine dust in the air. The lungs become irritated and the germs find a

fertile field for growth. Extreme weakness, feelings of nervous exhaustion, coughs and colds are the warning signals which should be heeded. One should put the system in the very best possible condition right away.

After years of experience in an active practice, Dr. Pierce discovered a remedy that suited these conditions in a blood-maker and tissue-builder, which at the same time alleviates the cough. He called it Dr. Pierce's Golden Medical Discovery—an alternative extract that assists in the digestion and assimilation of food in the stomach—so that the blood gets what it needs for food and oxidation, the liver is at the same time started into activity and there is perfect elimination of waste matter. When the blood is pure and rich, all the organs work without effort, and the body is like a perfect machine; if, however, any part is allowed to rust, and this human machine does not get its full supply of rich red blood (which acts like oil on machinery), then new fields are created in which the bacteria or germs of disease thrive and multiply. The germs of grip, malaria, catarrh or consumption find a fertile field if the body is not kept in perfect order and the blood pure. No man or woman can be strong or feel happy who is suffering from indigestion. Because the stomach is diseased there is a diminution of the red corpuscles of the blood. This is why one is sleepless, languid, nervous and irritable. Sensitive stomachs groan aloud at the irritating Cod-liver oils, but they will get all the food elements the tissues require by using the "Golden Medical Discovery."

"I was afflicted for more than seven years, with pelvic trouble, which developed into kidney and bladder disorder," writes Mr. Ernest Rappold, Chairman Executive Committee, Western Industrial League, of 230 West First Street, Los Angeles, California, whose like-

season of 1904-5, against the 5,913,000 tons of the present season. This lessening of the production, though comparatively small, and the increase of consumption, which has been exceptionally large of late, will materially decrease the surplus old stocks that have burdened the world's sugar market for the past three years; it will probably restore the sugar business to a most normal condition.

ness is given above. "I could make water with difficulty only; urine was dark and cloudy, my whole system out of order, and severe back-ache and headache was my daily portion. Finally, I was unable to continue my work and things looked pretty dark in the home with me, without work and no money to fall back on. My employer, whom I had just left, called to see me while in bed, and he spoke so highly of Dr. Pierce's Golden Medical Discovery, that I decided to try it. Within two weeks I felt much better, could begin to relish my food, and my aches and pains grew less. I kept up the medicine for ten weeks, when I was cured and again able to return to work. This was over seventeen months ago, and I have not lost a day's work since."

"My wife had ovarian trouble and ulceration of the womb, and she was cured through the use of Dr. Pierce's Favorite Prescription, so you see, my home, which was once desolate and dark because of sickness, is to-day bright and cheery, and we both give thanks to your grand remedies, which brought us that grandest of all human blessings—health."

**RECENT EXPERIMENTS.**  
 A pin prick and a drop of blood on a glass slide will tell whether your blood is in a healthy condition or not. Every healthy man should have five million red blood corpuscles to every cubic millimeter of blood. If there are too many white blood corpuscles the person is said to be anemic and run down. A chemical test of the water from the human body will tell whether the kidneys are in good health or not. These tests of health are conducted by expert physicians and chemists every day. Such examinations are made without cost. This is only a very small part of the work of the staff of physicians and surgeons under the directions of Dr. R. V. Pierce, of Buffalo, N. Y., the founder and director of the Invalids' Hotel and Surgical Institute, of that city. To build up the body that has been weakened by an attack of grip, pneumonia or typhoid, write Dr. R. V. Pierce for advice, giving all your symptoms, and he will give you the best medical advice, and without cost. For those who are weakened by the after effects of a bad cold, cough, or grip, nothing will eradicate poison from the blood so quickly as Dr. Pierce's Golden Medical Discovery. A most stimulating tonic because it goes to work in the right way, assisting the stomach to assimilate the food thus furnishing the blood proper nourishment, which in turn feeds the nerves. The blood should contain red blood corpuscles, which are capable of warding off the attack of germs if they get into our systems. Dr. Pierce's Golden Medical Discovery is just what is needed and it has received the praise of thousands of people throughout the United States.

Dr. Pierce's Medical Adviser is sent free on receipt of stamps to pay expense of mailing only. Send 21 one-cent stamps, to Dr. R. V. Pierce, Buffalo, N. Y., for paper covered, or 31 stamps for cloth-bound.

**We guarantee that Dr. Pierce's Golden Medical Discovery does not contain alcohol, opium, or any harmful drug. It is a pure compound of medicinal plants scientifically combined. Persons making false statements concerning its ingredients will be prosecuted.**

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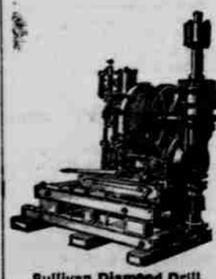
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