

The Heppner Gazette.

Issued Every Thursday Morning

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TO FIGHT SMUT.

Col. R. C. Judson Suggests Effective Remedies.

Last year five threshing outfits valued at \$12,000 were destroyed by smut fires in Umatilla county. The prevention of smut is one of the most important questions now before the farmers.

Col. R. C. Judson, industrial agent of the O. R. & N. system, has made a special study of smut prevention and offers the farmers of Umatilla county several excellent treatments for smut, all of which are said to be highly effective.

The following treatment is taken from the bulletins of the South Dakota experiment station, and is highly recommended by Col. Judson. The bulletin in part is as follows:

Smut is a disease transmitted from one generation of plants to another by means of minute spores. At threshing time the smut, which consists of myriads of spores, is scattered through the grain, the spore germinating the following spring along with the young wheat plant and penetrating the young seedling, lives in the interior of the plant until it heads. At this time, the smut enters the seed, absorbs its contents and develops a mass of spores. The most effective, cheapest and handiest methods of treating the seed wheat are the Jensen hot water treatment and the formaldehyde treatment.

This method consists in immersing the seed which is supposed to be infected with smut for a few minutes in hot water. The temperature must be such as to kill the smut spores, and the immersion must not be prolonged so that the heat would injure the germinative power of the seed. If the water is at a temperature of 132-122 degrees F., the spores will be killed, and yet the immersion, if not continued beyond 15 minutes, will not in the least injure the seed. The temperature must be allowed to vary but little from 132-122 degrees, in no case rising higher than 135 degrees, or falling below 130 degrees.

Two methods of applying the formaldehyde are in general use, sprinkling and dipping, both of which have their advantages, but the former is to be preferred.

Sprinkling—Windrows or piles of a bushel of seed are thoroughly saturated with a solution made at the rate of one pound formaldehyde to 50 gallons of water. A common garden sprinkler may be very satisfactorily used or even a broom, though a small hand force pump is to be preferred. The grain should be shoveled over and thoroughly wet for at least two hours.

Dipping—A bushel or more of grain is placed in a gunny sack and is dipped into a solution of formaldehyde, the strength as that given above. Care should be exercised that the grain is thoroughly saturated.

The spores that continue rust from one season to another, live over the winter in the straw and stubble, and, consequently, any treatment applied to the seed would be useless.

Many different remedies have been tried, but so far none have been found that are effective. The straw should be burned soon after threshing and where possible the stubble. Some varieties

of wheat are more resistant to rust than others. These varieties should be chosen for seed.

The East Oregonian believes the farmers are interested in this subject and will present the most advanced methods of preventing smut and rust, now in use.

Several valuable bulletins have been issued by the Oregon and Washington agricultural colleges upon the subject, and these will be presented from time to time.—East Oregonian.

The Japs as Soldiers

Many prominent military men of Europe and America have expressed the opinion that the Japanese are the best of soldiers. This assertion may be somewhat exaggerated, but still their wonderful showing in the war with Russia prove them to be well trained and courageous. The wonderful cures made by the celebrated Hostette's Stomach Bitters during the past 50 years prove it to be the most reliable family medicine in the world for indigestion, dyspepsia, constipation, biliousness, general debility, kidney and liver troubles, female disorders, chills, colds or malaria. We urge you to try a bottle to day and test it for your own satisfaction, also get a copy of our 1905 Illustrated Almanac from your druggist. It is free and contains much instructive reading matter.

Will Open Sunday.

President Goode authorizes the announcement of the decision of the executive board in the matter of Sunday opening. The Exposition will be closed in the morning until 12 o'clock, and open in the afternoons from that hour until 11 p. m., says The Oregonian. During these hours the buildings will be open and the machinery running. Amusement features on the Tait will be closed. Restaurants will be open. Boats will sail and there will be concerts by famous bands and whatever else is entirely proper in a public park will be permitted. The best essentials of the Exposition will be open.

It is believed that the decision of this question is such as to satisfy the just claims of all sections of the interested public. The decision has been reached after due consideration of pleas and counter-pleas, and it is believed that no essential principle has been compromised in the plan now determined upon. It is not expected that the plan will entirely satisfy the extremists on either side. It is expected that it will satisfy a reasonable man who have any knowledge of the difficulties involved in rendering a just and right decision in so important a question.

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CLAIMS RECORD FOR CYCLING.

German Journalist Has Traversed
Five Continents on a Bicycle—
Has Ridden 54,000 Miles.

William Schwiagerhausen, a journalist of Leipzig, Germany, claiming to be the only cyclist who has traversed the five continents on his wheel, recently arrived at St. Louis. In the last four years he has traveled 54,000 miles, and by the time he winds up his record breaking trip the figures will reach 60,000. With two companions he left Germany in June, 1899. In 1900 one of the cyclists was left behind at Beirut. Later Schwiagerhausen and L. Werner were attacked by Bedouins in an Arabian desert and the latter killed. Undeterred, Schwiagerhausen traversed India, China, Australia, South and North America, and will complete his trip by wheeling to New York.

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