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New Buick Prices:

E-4 \$920.	E-45 \$1415.	5-pas. touring car, 6 cyl.
E-34 \$925.	E-46 \$1845.	4-passenger Coupe, 6 cyl.
E-35 \$925.	E-47 \$1945.	5-passenger Sedan, 6 cyl.
E-44 \$1415.	E-49 \$1645.	7-pas. touring car, 6 cyl.
	E-50 \$2325.	7 passenger Sedan, 6 cyl.

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PHELPS GROCERY Co.

To Assist Farmers In Eliminating Smut

To Reduce the Great Amount of Damage From Smut, Government Is Co-Operating With Farmers.

Farmers of Morrow county are urgently requested to be present at a meeting in Heppner on Saturday afternoon at 1 o'clock at the Court House. This meeting will be addressed by Mr. J. C. Hawkins, of the Department of Agriculture who is working in Morrow county under the Extension Service of the Oregon Agricultural College. Mr. Hawkins is especially anxious to get in touch with all the farmers and place before them his plan of combatting the smut evil. He has stated to us that the Department of Agriculture has demonstrated that fully 30 per cent of the seed wheat fails to germinate because of improper treating, and the government is co-operating with the farmers to overcome this condition. In these times of stress, when it is necessary to conserve the supply of wheat and get better results of production, the farmers should be ready to take hold of every suggestion the government makes to better these conditions.

Mr. Hawkins requests that our farmers bring in samples of smutty grain, and also those who have clean wheat are asked to bring along samples. There is a strong demand for clean seed at this time and such wheat brings a fancy premium. Mr. Hawkins will use the samples in making practical demonstrations in the proper treatment of seed grain with formaldehyde, which is recommended for smut.

As this will be a meeting for the purpose of disseminating information, the farmers are requested to ask all the questions they can think of concerning smut, and should be prepared to place before the meeting their experience with this evil.

A meeting has been arranged for Lexington at 10:30 Saturday morning, to be addressed by Mr. Hawkins.

The following line of action, prepared by H. P. Barss, botanist and plant pathologist at O. A. C. is recommended. This treatment has been thoroughly tested by the government covering conditions in Eastern Oregon and farmers should preserve this paper for future reference.

Necessity of Treatment.

The smuts and other diseases of cereals which are carried by microscopic spores on the seed are so common through Oregon, as well as elsewhere in the United States that crops free from disease can not be expected unless the seed is treated to kill the disease spores before planting. Where the treatment is properly given the crop will be practically free from smut.

Soil Infection.

Soil infection is practically unknown in western Oregon and is of little importance in most of the Columbia Basin. Where it does occur, it may result in a smutty wheat crop in spite of proper seed treatment. In regions where soil infections are frequent, it is reported that much of the danger from this source may be avoided by very early or late planting.

Formaldehyde Treating Solution.

The formaldehyde method is effective, inexpensive and is the one most commonly used. The ordinary dilution is:

Formaldehyde (Formalin) full strength (about 37 per cent), 1 pint; water, 40 gallons.

One pint in 45 gallons is sometimes used and apparently with equal effectiveness. Two good methods of treating with formaldehyde are given below.

A. Tank or Barrel Treatment.

1. Run grain through fanning mill to remove smut balls, shrunken kernels, etc.

2. Partly fill tank or barrel with solution and put in the grain.

For Wheat: If the seed is not known to be perfectly free from smut balls, pour the wheat in loose, stir with hoe or other implement to bring the smut balls to the surface, and skim off. If seed is known to be perfectly free from smut balls, it may be treated in partially filled sacks. Soak for 30 minutes. Remove, drain and plant the same day or wash with pure water and spread out to dry.

For Oats: Put oats in gunny sacks and soak for 20 minutes in the solution. Take out, drain and plant at once. If grain is to be kept for a later day, wash with pure water and dry thoroughly.

For barley: Barley is more sensitive to the action of formaldehyde than wheat or oats. Use same method as for oats but use the weaker solution, 1 pint formaldehyde to 45 or 50 gallons of water and soak for 10 minutes only. It should then be washed with pure water, drained, and if it is not seeded shortly should be thoroughly dried.

B. Sprinkling Method.

1. Run grain through fanning mill.
2. Spread grain out on a clean floor or tarpaulin a few inches thick.
3. Sprinkle with the 1 pint to 40 gallons solution of formaldehyde, using a sprinkling can or sprayer.
4. Shovel or hoe the grain over till every kernel is wet.

(Continued on Page 7)

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