Treatment of Wheat
The purpose of treating wheat is to destroy the ergot spores, or seeds of the mold, which are mixed with the seed wheat either as loose spores suspended over the surface and among the grains or of the ends of the kernels or as unbroken smut balls. There are only two treatments which will kill smut spores when they are grafted onto other solutions, the principal ones being formalin (1 lb. to 40 gallons water) and bluestone or vitriol (1 lb. to 40 gallons water). These solutions must be made very carefully in these proportions to be certain that they will kill smut spores.

Recent investigations by the plant pathology of the state experiment station, at Pullman, Wash., show, however, that unbroken smut balls can be sealed in these solutions for several weeks without being damaged so as to settle to the bottom of the solution, without killing any considerable part of the spores which they contain. When one of these small balls is broken, millions of live spores are liberated. Spores from smut balls which had been killed 10 hours in vitriol solution germinated readily when put on the potato.

To secure clean seed heat, therefore, the following treatment is recommended for the treatment or they will certainly be broken and the wheat reinfected with live smut spores. The common practice of dipping the seed wheat while in the solution does not permit the removal of most of the spores. There should always be an open tank or moist machine in which wheat can be thoroughly stirred up and the most balls killed as they float to the surface.

The only means used to remove all unbroken balls held in the treatment.

White Winter Rye for seed for alumni offered by The Madras Flour Mill P.P.

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For Rent.—160 acres, 21 miles from Calver Station, 80 acres has been in wheat, fenced and cross fenced. Will give long term lease if desired. Address, C. H. Beck, F. O. Box 108, Tumwater, Wash.

For Sale.—At auction (11) six years old, $60.00. 1 horse and buggy and harness, $60.00, 7 door chickens. H. E. Jacobs, 10-24-21.


Notice to Public.
Havering out my Blacksmithing and general repair business to Wm. and Culp, all accounts are now due and payable to D. W. Barrows. I am now authorized to settle any accounts when I am not there. S. E. Grey.