

MUCH GRAIN ANNUALLY DESTROYED BY SMUT

Instructor of Soils and Crops Tells How It May be Eliminated from the Seed---How the Formalin Solution may be Prepared---Serious Loss Can be Prevented.

As a measure of increased food production the prevention of the loss from smut which annually destroys thousands of bushels of grain in this province offers a material increase in production with a minimum of expense and labor involved.

The reports of the judges in the Standing Field Crops Competition show the prevalence of smut in the various counties. In many of the fields examined as much as 10 per cent. of the grain was smutted, and in one field, sown with high class untreated seed, which produced a heavy yield of straw, more than 20 per cent. of the crop consisted of smutted heads.

Many farmers do not know that smut is present even if two to five per cent. of crop is affected, others recognize them as "blackheads" but do not know that they can be prevented. Furthermore, the presence of oat smut on the threshed seed is not apparent, consequently the value of seed

treatment is not appreciated as the smut problem is not clearly understood and the preventable loss due to this disease continues to a great extent.

The black masses of smut dust, most noticeable before the grain is ripe, consist of countless numbers of spores, the fruit of this parasitic plant. These spores infect the seed in several ways. Many are blown about by the wind and become lodged on the ripening grain. The wholesale agent of infection is the threshing machine and the crop from a field free from smut is liable to become infected by spores carried in the machine from an infected neighboring field. The use of sacks, grain bins of seed drill which contained smutted grain helps to distribute the smut spores. The formalin treatment of the seed will prevent the occurrence of this disease and if applied by farmers generally this spring a greatly increased grain production will result. A means so inexpensive and easy to apply which gives immediate returns in an increased crop yield, should be utilized to the fullest possible extent.

Any farmer who, like the man from Missouri, wants to be shown the method of treatment for smut prevention can receive such assistance by applying to the Department of Agriculture, Fredericton.

Formaldehyde Will Prevent.

Materials needed: A barrel or cask of water, a small quantity of formalin, a sprinkling-can, a shovel and several sacks.

(a) The method of treatment for seed oats:

TROUBLED WITH CONSTIPATION

HEART AND NERVE

From 16 to 20.

Constipation is one of the commonest ills of mankind, and one too often allowed to go unlooked after until some serious complication sets in.

If the bowels are properly looked after there will be no constipation, jaundice, sick or bilious headaches, heartburn, coated tongue, sour stomach, floating specks before the eyes, etc.

Milburn's Laxa-Liver Pills will keep your bowels so regulated that in no time the constipation will disappear. Miss Emma E. Melanson, Halifax, entirely.

N. S. writes: "I am now 20 years of age and since I was 16 I have been greatly troubled with constipation, so much so that at times I would be in bed three or four days a month. I tried all the old fashioned remedies, castor oil, cascara, etc., with only temporary relief until my sister-in-law gave me some of Milburn's Laxa-Liver Pills. From the first they seemed beneficial and I gave them a fair trial. This was two years ago, and with an occasional dose I have kept entirely free from constipation for the period mentioned."

Milburn's Laxa-Liver Pills are 25c. a vial at all dealers, or mailed direct on receipt of price by The T. Milburn Co., Limited, Toronto, Ont.

Prepare the formalin solution in the proportion of one pint of formalin to forty gallons of water. (Formalin may be bought of any druggist at from 40 to 50 cents per pint.)

The oats should be placed on a clean floor or canvas, making a layer several inches thick. Sprinkle the solution over the grain, using the sprinkling-can, and then shovel the grain so as to mix it thoroughly; then sprinkle and shovel again until all the seed is moistened.

Cover the pile of grain with canvas, or sacks which have been dipped in the solution, and allow it to remain covered for two or three hours and then spread out to dry. The drying should be hastened by frequent stirring, as the grain is injured if it becomes sprouted, mouldy or heated.

Forty gallons of the solution will treat from fifty to sixty bushels of seed.

Grain may be treated several weeks before seeding, but it must then be thoroughly dried, and reinfected from

smut spores guarded against. The treated grain is not poisonous to stock though if fed it should be mixed with untreated grain.

Any sack or bin into which the grain is put after being treated should be washed with the formalin solution. A strong solution should be used to clean a floor or bin and the seed drill, say one pint to twenty gallons of water.

If the treated seed is sown before it is perfectly dry, it will be found somewhat swollen. In seeding, therefore, the seed drill must be set to allow more seed per acre.

(c) If but a small quantity of seed is to be treated, the "dipping" method is very convenient:

Put grain into a sack—not more than a bushel into a three bushel sack—and plunge the sack into the solution. Raise the sack first by one end and then by the other, plunging it in again so that all the grain will get wet. Drain off the solution and allow the grain to remain in the sacks or in a covered heap on the floor or on canvas for a few hours. It is then ready to sow by hand or after drying, it may be sown from the seeder.

Properly treated seed gives greater yields than untreated seed, because sound plants take the place of smutted plants.

Smut can be eradicated and grain production greatly increased by organized community effort throughout the province.

Instructor of Soils and Crops, New Brunswick Department of Agriculture, Fredericton, N. B.

CASTORIA

For Infants and Children
In Use For Over 30 Years

Always bears the Signature of *Chas. H. Fletcher*

BEAN SUPPER

The Ladies' Aid of St. Paul's Church will hold a Bean Supper and Sale of Useful and Fancy Articles in the Fraser Memorial Hall, on Wednesday, April 17th From 5 to 7 p.m. Orchestra in attendance. Tickets 35c.

DR. HETHERINGTON GETS AFTER OPPOSITION FAULT FINDERS

Popular Member for Queens Contributes Fighting Speech to the Budget Debate---The Ex-Attorney General Hauled Over the Coals---Mr. Potts and His Fidgets---How the Old Government Neglected the Roads of Queens.

The budget debate was continued in the Legislature Wednesday afternoon by Dr. Hetherington of Queens, Dr. Campbell of St. John, and Dr. Roberts, who moved the adjournment of the debate. The speech of Dr. Hetherington was one of the best heard in the House this session. The member for Queens was in fine form, and handled the opposition critics without gloves, devoting special attention to Mr. Baxter, Mr. Potts and our own Mr. Pinder.

The new Highway Act was further considered in committee and agreed to along with some amendments submitted by Hon. Mr. Veniot. The committee went on record as favoring a change in the rule of the road, and a section to that effect was incorporated into the bill. It will be brought into force by proclamation not earlier than Jan. 1st, 1919.

Other features of the new act will become operative during the present season.

The House met at 3 o'clock. MR. HETHERINGTON, on the order of the day being called, resumed the debate and the budget. He con-

gratulated the hon. provincial secretary on the able manner in which he had brought down the budget and felt (Continued on page 3)

MOTHER AND CHILDREN HAD AWFUL COUGHS WERE CURED BY DR. WOOD'S NORWAY PINE SYRUP.

Mrs. Arthur Appleyard, Novar, Ont., writes: "This past winter my children and I had awful colds and coughs which we got by being in drafts. I tried a number of different remedies for us, but got no relief. I thought I would try Dr. Wood's Norway Pine Syrup, and I found it a most excellent and sure cure. It gave relief to the tickling in the throat and stopped the cough, and with a few bottles we were all cured."

Dr. Wood's Norway Pine Syrup is a remedy that has been on the market for over twenty-five years, and we can recommend it as being, without doubt, the best cure for coughs and colds that you can possibly procure.

There are a lot of imitations on the market, so when you ask for "Dr. Wood's" see that you get it. Put up in a yellow wrapper, three pine trees the trade mark; price 25c. and 50c.; manufactured only by The T. Milburn Co., Limited, Toronto, Ont.

SEEDS

No. 1 Timothy
No. 2 Timothy
Red Clover
Mammoth Clover
Alsike Clover
At lowest market rates.

G. W. HODGE

Imperial Cold Cure

Will check a cold in a few hours. Does not cause ringing in the head.

Price 25 cents. Sent by mail to any address on receipt of price. Sold only by

C. FRED CHESTNUT THE QUALITY DRUG STORE
572 Queen Street.

PUBLIC NOTICE

For the purpose of conserving coal, electric light and power will be shut off on Sundays from daylight to dark until further notice. It is not anticipated that this curtailment of electric service will continue for more than two months, probably not so long. By order of the Directors of Fredericton Gas Light Co.
HARRY D. WHITE,
515 Manager.

Substitute--Sink or Bath Tub Stopper

Milk Bottle Caps make good substitutes for the regular rubber stoppers in Basins and Bath Tubs. The water soon destroys them; but they will serve the purpose until a regular stopper can be obtained from D. J. SHEA & SON, who have a complete stock of Bath Room Specialties at their Store, Carleton Street.

Try "WITCH" SOOT DESTROYER.

D. J. Shea & Son

Basic Facts About Belting

AND PARTICULARLY

Dunlop "Gibraltar RedSpecial"
Frictioned-Surface Transmission Belting

A Worthy Product

Years of careful study of the high-power belt problem have enabled Dunlop Laboratory experts to create "Gibraltar RedSpecial" Belting, the original Red Face Rubber Belting of Canada—a product worthy of the Dunlop Factories and of the quarter-century record of success back of them.

"Gibraltar RedSpecial" Virtues Are Real

Dunlop "Gibraltar RedSpecial" Belting is to-day widely used in a multitude of ways in the many varied industries in this country. It owes its success, not to any illogical deductions or fantastic analyses, but to the simplest causes—causes so

Permanent Elasticity Means "Life" in Belting

In producing this new, this original, this master, red belt, our object has been to have the friction coat of rubber between the plies such as will retain its life indefinitely, and to have a quality of rubber

That "Friction Pull"

When you are informed that such-and-such a belt has a "friction-pull" of abnormal poundage, do not imagine that you are getting a quality friction. What you have to secure in a belt is a friction full of elasticity. There must be between the plies of duck only a certain class of rubber to give uniform strength and pliability.

Resilient Quality Must Not Be Sacrificed To Excess of Friction Strength

To obtain high figures, such as referred to above, in belt frictions you have to take away from the elasticity of the friction; hence, there is a happy medium, and this medium we have obtained through our laboratory experts. It ensures for you a belt, the friction of which will hold the plies together and will be sufficiently elastic in its properties to allow for the give and take necessary in rounding the pulleys.

Universal Recognition of "Gibraltar RedSpecial"

To cite the names of users of this famous, red frictioned-surface belt would necessitate the use of much space. We have on file recommendations from almost every type of industry requiring "Gibraltar RedSpecial" Belting in widths varying from 1½" to 48". These testimonials are available for your perusal at any time.

The Original "Red"

"Gibraltar RedSpecial," as noted previously, is the Original Red Rubber Belt—and like most things that are original, its success is of the kind that endures.

Duck Finest Obtainable, Made to Highest Specifications

A highly important feature of "Gibraltar RedSpecial" is the duck which enters into its construction. Only the finest quality of specially-selected duck, having the proper tensile strength in the right direction, is used. And this, in combination with a superior rubber friction between the plies, ensures absolute uniformity of service.

Fills The Bill

"Gibraltar RedSpecial" Belting is to be found in practically every industry in Canada, and if it is Power, Speed and Service that you want, then it is "Gibraltar RedSpecial" Frictioned-Surface Belting that you require for your work.



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High-grade Tires for Automobiles, Motor Trucks, Bicycles, Motorcycles, Carriages; High-grade Rubber Belting, Packing, Fire Hose and General Hose, Dredge Slices, Military Equipment, Mats, Tiling, Heels and Soles, Horse Shoe Pads, Cement, Agricultural, Plumbers' and Railroad Supplies, and General Rubber Specialties.