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## Farmers Lose Thousands of Dollars Annually Due To Presence of Smut

Treat The Grain Before Sowing and Save The Loss In Harvest Time.

ted by treating the seed grain.

the head, thus reducing the yield.

covered smut of barley.

Formaldehyde is sold under the 3. Dipping. trade name of Formalin, which is a | Use a pint of formalin to 40 gals. 40 per cent. solution of Formaldehyde | water or a pound (16 oz.) to 32 gals. It can be purchased in drug stores by water. Put the grain in loosely fillthe pound (16 oz.) or by the pint ed sacks, dip into the solution, see (20 oz.)

used for handling treated grain are barrel and then pile the grain on a likely to be contaminated with smut clean floor and cover for two hours.

with formalin and so may be used for |Sow when sufficiently dry to run holding the solution when treating through the drill.

peared.

it may injure the germination.

When the seed is damp and swollen after treating, the drill should be set than usual.

Copper carbonate dust is recom- smut. mended for treating wheat for stinking smut and also for treating hulless whole "head" of wheat is affected thank the friends from other church-

OATS

en as good control of smut as forma- controlled by dipping the wheat in

Three different methods of treat-jed under ordinary farm conditions. ing the seed may be used.

of this solution is sufficient for 40 or called smut balls. These are filled a sprinkling can will not do.

oats, otherwise the fumes are very outside of the grain, and these spores man shovels the grain into a heap on carbonate dust. the outside and cover the pile of oats order to remove as many of the smut the pile but should first be treated ter the grain is treated and affect the the same as the bags. Leave covered grain again. four or five hours, then uncover and | Wheat may be treated for stinking the oats are ready to sow.

The advantages of this method:- copper carbonate dust. (1) A large quantity can be treated Formalin Treatment-Two methods once. (3) They may be treated a Nos. 2 and 3). week or more before sowing.

Note:-This method cannot be used Formalin. for hulless oats nor for wheat as the mixture of oats and barley is to be drill. treated, it may be used without much ] germination injury to the barley. 2. Sprinkling.

of water. Place the grain in a pile seeding. on the floor and by means of an ordinary sprinkling can, sprinkle this two or three ounces of copper carbon-

for

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The farmers of Ontario lose thous- time shovelling over the grain severands of bushels of grain every year al times to make sure that all the on account of smut, and the greater seed is wet. If any part of the seed part of this loss can easily be preven- is left dry, the smut may live. It will take 2-3 gallon or more of this Smut spreads with the seed, grows solution per bushel. Cover the pile up inside of the plant and destroys with bags, sacks, blankets, etc. which have been treated by dipping them in Treat the seed before sowing and this solution and leave for two or destroy the smut. Formaldehyde is three hours then uncover and spread one of the best substances for seed out to dry. Sow as soon as sufficienttreatment. It will control oat smut, ly dry to run through the drill or dry stinking smut (bunt) of wheat, and thoroughly and store in clean bags until sown.

that all grain is wet and soak for 5 All bags, sacks, etc. that are to be minutes. Drain the sacks over the and should be treated with formalin. [Covering is important as it prevents Barrels or pails are not injured too rapid evaporation of the formalin.

HULLESS OATS

Grain that has been treated with Hulless oats are very suseptible to Do not allow wet grain to freeze as this smut when applied at the rate of 2 or 3 oz. per bushel. WHEAT

When loose smut develops the and at harvest nothing remains but es who came out loyally to help and the bare stalk. This smut is carried support the work of extending God's Numerous experiments have been from one crop to another as little Kingdom and pray that God will bless tried for a number of years using thread like structures (mycelium) in- the Pilgrims in their endeavours in various dusts for the treatment of side of the grain and hence cannot be other fields. oat smut but none of these have giv- destroyed with formalin. It may be hot water but this is not recommend-

When stinking smut or bunt deve-1. Spraying or dry formaldehyde. lops the "head" of wheat is somewhat Use equal quantities of formalin similar to an ordinary "head" but in and water; that is one pint of forma- place of good kernels of wheat small lin and one pint of water. A quart shrunken ones develop, which are 50 bushels of oats. The most con- with a black mass of smut spores. venient method of applying this solu- Many of these smut balls are broken tion is to use a quart sealer sprayer, open during harvesting and threshing and the spores (which function as When treating the oats, open the seeds) adhere to the good grain. doors so as to give plenty of ventilat- Stinking smut is thus carried from ion, and hold the sprayer close to the one crop to another as spores on the irriatating to the nose and throat. can be destroyed with formalin or Spray part of the floor and while one some other substances such as copper

this part of the floor, another sprays | Seed wheat should be well cleaned on the solution. When finished, through a good fanning mill before spray the bags on both the inside and being treated for stinking smut in with them. Old carpets, blankets, balls as possible. If this is not done, tarpaulin etc. may be used to cover some of them may be broken open af-

smut either with formalin or with

in a short time. (2) The oats have may be used-either sprinklin or dipnot been wet and can be sown at ping the same as for oats. (See oats

Disedvantages of Treating with

(1) The wheat is wet and it freqgermination will be injured. It is not uently takes considerable time to dry recommended for barley but where a it so that it can be sown with the

(2) Germination is frequently injured especially if the wheat is not sown for some time after treating or Use a pint of formalin to 40 gals. if the ground is very dry at time of

Copper Carbonate Treatment—Use solution on the grain at the same ate per bushel, depending on amount of smut present. Put the wheat and copper carbonate into a mixing machfine and rotate for one or two minutes or until every grain is thoroughly covered. It is advisable to wear a dust mask or wet handkerchief over the nose and mouth while treating the grain. If a smut treating machine cannot be obtained, a barrel, churn or an ordinary barrel fastened in a frame or some types of cement mixers, may be used for treating the

> Advantages of Treating With Copper Carbonate.

(1) It does not injure germin-

(2) Seed can be treated whenever convenient and stored without injury. (3) Dusted seed can be sown at any time in dry or moist soil. Disadvantages.

(1) Seed treated cannot be used for feeding or for milling purposes. (2) Seed treated must be kept dry and should not stand in the seed

seed drill should be cleaned out as it

may become caked and injure the

If the drill as not been used for a few hours it is advisable to rock the wheels before starting to loosen the grain and the gearings. BARLEY

There are two kinds of smut in barley-Loose smut and Covered smut. Each is somewhat similar in general appearance to the wheat smuts. When loose smut develops the whole "head" turns black and blows away, whereas when covered smut develops the "head" remains somewhat similar to an ordinary "head" but is much

It is sometimes difficult to distinguish loose smut from covered smut. Covered smut is later in developing and the black mass of spores, which takes the place of a kernel of barley, is covered by a white membrane.

Treatment-Use one pint. Covered Smut:-Treat the barley by sprinkling or by dipping for a few minutes the same as for oats.

Loose Smut-This smut may be controlled to some extent by soaking the barley in a solution of formalin for two hours but the only wholly effective treatment is by dipping in hot water as for loose smut of wheat.

## Concord

Sunday last brought a very successformalin may be fed to live stock aft- smut and if treated with formalin ful three week's mission to a close at er it has been exposed to the air for there is likely to be considerable ger- Concord United Church the Pilgrims some time and the fumes have disap- mination injury. Copper carbonate Misses Gibbs and Rowden conducted dust is very effective in controlling the campaign also visiting in the homes of the people and many homes are much brighter and happier Barrie, Uxbridge and Toronto. through their prayers.

to sow 1/2 to 3/4 bushels more per acre wheat, loose smut and stinking smut, tention and many took a definate asset. also called bunt, covered smut and ball stand, acknowledging Christ as their Saviour.

The officials of the Church want to

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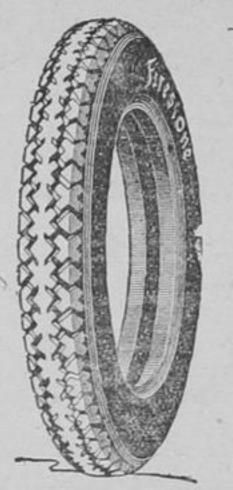
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drill under moist conditions. (3) Any dust collecting in the