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Treatment for Smut

The only way that smut can be eradicated, or lessened, in the grain crop, is to treat the seed before sowing. The two treatments most generally in use for this purpose are the formalin and bluestone methods. The former is gradually replacing the latter method.

For smuth, against the statement of the control of the cont

The former is gradually replacing the latter method. For smut in osts put four ounces of formalin into 19 gallons of water. Put the oats in a pile and sprinkle the liquid over them, turning the grain so that all are well wetted; let spread out to dry. This, and there are not spread out to dry. This, and the spread out to dry. This treatment is simple and very effective. Care should be taken to see that all the grain is thoroughly moistened by the solution, and that the seed is well solution, and that the seed is well solution, and that the seed is well for the control of the control in the formal form, would indicate that the Formal in or formaldehyde solution, should not be prepared until just before it is to be used. If the solution is made and exposed to the air for several days, the water in the solution is made and exposed to the air for several days, the water in the solution evan dear that intended, and more liable tringure the grain. Another treatment, beside the blue-

er than intended, and more liable to injure the grain.

Another treatment, beside the blue-stone, is the hot water treatment. But this is more difficult to manage, en-tails more labor, and is hardly as ef-fective as the others. The formalin treatment is now considered the simp-tentment is now considered the simptreatment is now considered the simplest, and most reliable, and can be handled by any farmer with litt'difficulty. Where smut is bad, no seed should be sown without being treated, and, to be on the sate side, all seeds should be so treated.

The Improvement of Farm Crops

Greater efforts are being put forth ow, to improve the farm crops of

Greater efforts are being put forth now, to improve the farm erops id the country, than ever before. Profitation and the country that the country that the country and the recent annual convention of the Canadian Seed Grower.' Association. Speaking on the details of plant improvement he advised a close study of the foundation stock. There are many varieties of farm crops in Canada and a wide difference in the character of these. There is a great variety of grain will often yield it; bushes an acre more than another variety of grain will often yield it; bushes an acre more than another variety of the same kind. Then there are early and late maturing varieties, suitable for different conditions of soil and climate. These must oe studied as well as the different charts. soil and climate. These must be studied as well as the different char-acters of grains in their disease re-sisting qualities, such as smut and

rust.
Prof. Zavitz instanced an experi-ment conducted at Guelph, with 250 varieties or strains of oats. Some of ment conducted at Guelph, with '20' varieties or strains of oats. Some of these were very much subject to smut while others were not. In one variety only three heads of smut were found during five years growing of this variety. In some varieties of wheat to times as much smut was found as in other varieties grown under the same conditions. Some varieties of potatoes were very much more subject to rot than others. The plant improver must note these points and endeavor to profit from them. and endeavor to profit from them.

It is a common belief that it is necessary to change seed every three four years in order to maintain its vitality and producing power. Prof. vitality and producing power. Pro Zavitz protested that this was not nec-essary. On the college farm, 30 varieties of wheat, barley, cats and potatoes had been grown continually for it years by selection. With the exception of one variety of potatoes, every variety had given an increased yield the protection of the seed alone, while it helped to improve quality and

increase in yield did not make for as much improvement as the selec-

is much improvement as the selection of individual plants.

The origin of Dawson's Golden-chaff wheat, now grown more extensively in Ontario, than any other variety, is a striking example of plant selection. Eighteen years ago Mr. W. H. Dawson, near Paris, Ont., in walking througt, his wheat field, which was lodged and weak in the straw, noted one plant that stood up by itself. It was strong in the straw and while other plants are und it were down, it maintained upright position. Mr. Dant, and the next seesaw sowed see seed by itself. From this he was able in a few years to supply his neighbors with seed from it, and in this way it was distributed over the whole country. At the Ontario Agricultural College to straws of Dawson's Golden chaff were recently selected, and eight of these were found to give greater yields than even the original, how establishing the theory that, however good a variety may be it is allowed to be a supply that is the selection of the control of the selection of the sel showed great variation, some yield-ing one head, other two, others three, up to 28 heads. One strain in par-ticular topping the lot, not only in the tests at the college, but also in the co-operative tests throughout the province, in yield, in strength of straw, and in quality of grain.

Sanitary Conditions in Handling Milk

Milk
Ed. The Dairyman and Farming
World—Much has been said on the
sanitary handling of milk. Little
sanitary handling of milk. It the
ears and, however, in regard to
the care of milk in transit. This
certainly is one of the points that
cannot be jotted down as the last and,
least. It is a shame that thousands
of cans of milk are taken to cities
daily by various meens of transportation without any assurance peing
given by the transportation agencies
as to the safety of this product. This
winter should demonstrate the need
for a step being taken in this directior
Many dollars have been lost by spitla
and as forth during the last few
weeks. I have, seen considerable of
this myself. this myself.

Accidents are not the only reasons for the much-needed improvement, however. In this connection, every for the much-needed improvement, b-wever. In this connection, every chance is given to jealous or mischievous persons te adulterate the milk or cream by putting in vater and other foreign material. Again, there are the thirry Jellows who have been proved in the part of the property of the part of the province of the

20

13

If milk is not good, the producers get the blame. But there are recrees of inroads that lead to its impurity, all due to the carcless way in which it is handled. A can with a sealed lid by no means fills the bill. What ind by no means and the nu. What is wanted is a simple but sure method of locking the lids fast on the inside. Then there would be no danger of anyone meddling with them. Furthermore, there would be no loss by upsets and railroad accidents.

Let us have the opinion of others next week on this subject. If I was a milk producer, I would not sit any longer and take al. the blame for impure or unsanitary milk.—A Con-