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# \* HORTICULTURE

## Some Facts About Potatoes

At the recent convention of Bedford District (Quebec) Dairyunen's Associa-tion, held at Cowansville, Dr. H. T. Gassow, botanist at the Central Ex-perimental Farm, said, in the course of an address, that there is not sufficient attention paid to the diseases of plants in Canada. The commonse timeris was more than the commonse timeris was more the second second second to detect the ravages and advised the pose to the Bordeaux mixture. He then took a good-sized potato and cut it through in several sections. In each section At the recent convention of Bedford a good-sized potato and cut it through in several sections. In each section could be detected a more or less regular and continuous ring of dark color among the white part of the potato, nor far from the outside thereof, but still inside the skin. This was fatal to its ability to sprout, as it was the work of a bac-teria which commenced at the stem and "filested varies" of the novato, which teria which commenced at the stem and affected portions of the potato which were not even visibly affected. Under the microscope, it would be found to be diseased and, by actual experiment and test, it had been found impossible of germination.

### FUNGUS GROWTHS

Then Dr. Gussow took a scabby po-tato and held it up for inspection. He tato and held it up for mspection. He showed that such a potato had only about one eye that would germinate, that the fungus wounded the surface of the potato, and the scab was the effort of the potato to heal the wounds. It was generally caused by too much man-er or by manying the sound too short was generally caused by too much man-ure, or by manuring the ground too short a time before the potato was planted. Raw, scrubby or scabby potatoes should not be fed to animals without boiling, in order to kill those fungi. They would injerse the animal. The feeding of any effect of the start of the Useased potato to an animal was worse than useles, as the bacteria have taken all the goodness out of the tuber, and the sick of diseased portions of the potato works seriously injure the animal. Dr. Yound seriously injure the animal. Dr. Yound seriously injure the animal potatoes are not a proper visited that potatoes are ground branches of are rather under-ground branches of anit for human food was unfit for cattle.

#### TREATMENT BEFORE PLANTING

He then showed a white potato with He then showed a white potato with minute black spots on it. He had failed to wash off these black spots. They adhered to the skin of the potato. They were, he asserted, dormant fungi, which would not grow upon the dvr surface of the potato skin, but which, when planted in moist ground, would at once revice and do damage to the roots of the plant. These spots did no harm to the potato as food for animal or man, if boiled. These solt of potatoes may, however, be used for seed, even when they have these dormat fungi upon them, if they are dipped three times, for half a minute each time, into a solution of one ounce are inpped three times, for hair a minute each time, into a solution of one ounce of sulphuric acid to one gallon of water. It was well to put up a 50-gallon mixture and then dip the potatoes in it in bags,



and afterwards allow them to dry,

before planting. Potatoes should never be planted twice upon the same field. Too much ashes or potash causes trouble with scrubbiness. It was shown by Mr. asthes or potash causes trouble with scrubbiness. It was shiven by Mr. George E. Tibbits that some farms were unable to grow potatose without scrub his perm. He had tried ploughing up his perm. It had tried ploughing up his perm. And the source of the source of the tillage land. It was ing failed on his tillage land. It was much better in every way the soil was much better in every way than manuring in the hill. The speaker than manuring in the hill. The speaker did not advocate the use of commercial fertilizers such as phosphate, but, if they were used, they did less harm when sown broadcast.—P. C. D.

## Lime-Sulphur Wash for Scale

Editor, Farm and Dairy,-When I Editor, Farm and Dairy,—When I spray our fruit trees for San Joes scale, I first trim all the trees and scrape off the rough bark. I use 20 pounds of sal-phur in six or ten gallons of water. I put the lime in the kettle, and when slaked µti the sluphur, which I had mixed into a paste in a pail of warm water. Have a good fire and cook for about one hour and a half. I keep stir-ring and adding water until I have a about one hour and a half. I keep stir-ring and adding water until I have a barrel. It is then put in the pump and taken to the trees while it is hot. Spray one side of the tree with the wind, and when the wind changes spray the other side. side

side. I have sprayed this way for six sea-sons, and have had good results, and am keeping the scale in check. If every one who has trees would spray, it would not be so hard to fight the scale.—J. E. Hambly, Cedar Springs, Ont.

#### **Propagating Strawberries**

The usual method of propagating The usual method of propagating strawberries is from runners. It is hy means of these that the natural in-crease of a variety takes place. As the first runners which are made root sconest, and hence usually make the strongest plants, these are the best to use in making a new plantation. There has been much discussion dur-ing recent years regarding the merits of the so-called "pairwe" plants of the so-called "pedigree" plants which have been offered for sale by an which have been offered for sale by an American firm, they having claimed that, through years of selection, they had developed a much better strain of certain varieties than those who had not followed this system. In the first place the term "pedigree" has apparently been improperly used by this firm, as, to have a pedigree the ancestors of a plant or animal mut be known, new blood being introduced in each generation through varience. this nrm, as, to nave a pedigree in ancestors of a plant or animal must be known, new blood being introduced in each generation through raising a new variety from the seed. A good pedigree is very desirable, both in plants and animals, but up to the present time, the pedigree of plants for several generations is not often known. In the case of the 'pedigree' them sery plants it is said there has the server plants it is and there has the server plants it is and there has the server plants in the sever them server plants in the sever plants are after year and the best plants year after year and the best plants were after year and the best should show some improvement over those not selected, but the dekins of superiority of the so-called 'nedigree' plants have not been borne out by the results obtained here. In 1903 there were fur de for two years, but while in some cases the 'pedigree' ylants yielded better than the others, they did not always do so. While the re-ults obtained do not warrant the pur-chase of 'pedigree'' plants raher diam there where there is no special daim they selected, while is the princip of selection, we believe that the princip of selection is good and if thoroughly carried out, is bound to result in an improved strain, which,

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