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A Merry Xmas to All Our Readers!

THE APPLE SCAB AND ITS CONTROL

It is Not in Knowing How to Spray but When to Spray that Marks the Successful Fruit Grower, Says Professor Wallace.— Lime Sulphur Superseding Bordeaux Mixture for Fungus Diseases.

Following is the address by Professor Everett Wallace on "The Apple Scab and Its Control" at the meeting of the Fruit Grower's Association at Wolfville, which is published by request.—The discussion which followed the address will be published in another issue.

I take it for granted that you, as practical men, are interested principally in the practical phase of this subject. Your main object is to grow smooth, clean, handsome fruit, and plenty of it. Probably more than ninety per cent of the fruit that must be graded as second and third class, must be so graded because of injuries from the Scab fungus or the Codling moth. Furthermore, I hope to be able to show you that in many cases these pests not only decrease the quality, but also very materially reduce the quantity of fruit. One of the most important problems for the grower then is to determine the best possible means of controlling these two pests.

The first and most important question is "When shall we spray?" This is more important than the other question, "What shall we spray with?" We are convinced that the poor set of fruit in some sections of New York State the past season was due to no other reason than that the spraying was not done at the right time. Hundreds of thousands of dollars are lost each year because of such mistakes and neglect in regard to spraying. The scab disease of apples is caused by a very minute plant which we call a fungus. It grows in the skin of the apple forming the black spots so familiar to you all. Every scab spot starts from a spore (or seed) which germinates, grows into the skin of the leaf or apple and continues to grow until the scab spot is formed. Now it is just as impossible for these spores to germinate without moisture as it would be for a wheat seed to germinate in a dry bin in the granary. This explains then why we have so much more scab during wet than dry seasons.

Now we may ask how does the spray prevent infection? It does so by coating the surface of the young fruit or leaf with a substance which prevents the

spores from germinating. Bearing this in mind we can return to the question, "When shall we spray?" We must spray before this infection has taken place. (Since infection takes place in the rain, or while the trees are wet, we must spray before rains to prevent it. This is a disease you cannot cure, you must prevent it. Don't wait until the rain is over fearing that it will be washed off. Twenty minutes to dry before the rain comes, is sufficient to hold it quite well. After the wet weather is all over the spray is not needed. "How early in the season must we begin to spray?" This depends largely on how early the spring crop of spores is ripened up. The fungus is carried over winter on the dead leaves on the ground, developing a drop of spores in the spring which are shot into the air like peas from a pop gun, and carried to the young leaves and fruit buds by the wind. Watching this for the past three years we find that in New York State these spores begin to ripen up about the time the blossoms are ready to open. Therefore we can usually prevent the early scab infection by spraying just before the blossoms open. This application is important when the early season is wet, for two reasons. First, the scab attacks the stems of the blossoms and they fall. You will complain of a poor set and consequently a light crop. Secondly, it attacks the leaves; and although often not conspicuous it breaks the skin of the leaf so that when spray is applied later, it enters the leaf and burns it. We are often asked how early may this first application for scab be given? Will the dormant spray for blight mite made before the leaf buds burst answer for this also?

Remembering what I have already stated, that we prevent scab only by coating the surface of the young fruit, bud and leaf to prevent the fungus from getting into it, the case seems clear. How can we coat the buds and leaves with spray before they are opened?

This is not all theory however, we have tried it for the past two years and find that the dormant spray has practically no effect in controlling apple scab. The proper time then for the first application for scab, at least under New York conditions, we find to be after the buds and leaves are exposed so that you can get at them, but before the blossoms have opened, getting it on ahead of the rains if possible.

(Continued on page 3, third column)

Merry Christmas Chimes

It came upon the midnight clear,
 That glorious song of old,
 From angels bending near the earth
 To touch their harps of gold.
 "Peace on earth, good will to men,
 From heav'n's all gracious King,"
 The earth in solemn stillness lay,
 To hear the angels sing.

Still thro' the cloven skies they come,
 With peaceful wings unfurled,
 And still celestial music floats
 O'er all the weary world;
 Above its sad and lonely plains
 They bend on hovering wing,
 And ever o'er its babel sounds,
 The blessed angels sing.

O ye, beneath life's crushing load,
 Whose forms are bending low,
 Who toil along the climbing way
 With painful steps and slow,
 Look up! for glad and golden hours
 Come swiftly on the wing.
 O rest beside the weary road
 And hear the angels sing.

For lo! the days are hast'ning on,
 By prophet bards foretold,
 When with the ever circling years
 Comes round the age of gold;
 When peace shall over all the earth
 Its final splendors fling,
 And the world send back the song
 Which now the angels sing.

TO ESTABLISH UNIVERSAL PEACE

Fund for Abolition of Strife Between Nations Created by Andrew Carnegie with a Donation of Eleven and a Half Millions.—Says Great Britain Stands Ready to Co-operate with American Republic.

WASHINGTON, D. C. Dec. 14.—Surrounded by 27 trustees or his choosing comprising former Cabinet members, college professors, lawyers and educators, Mr. Carnegie tonight transferred \$10,500,000 to be devoted primarily to the establishment of universal peace by the abolition of international disputes which is co-operating with Secretary of State Knox in the movement for the establishment of a court of arbitration, there is good basis of supposition that the newly created fund commission will lend such aid to the project for the establishment of world wide peace through judicial channels.

One of the members of the Board of Trustees said tonight that while there had been no definite plans as yet for the use of the fund, it was certain that the new commission will consider the question of the international harmony much more deeply than a mere glorification throughout the world.

GRETCH WITH APPLAUSE.

As Mr. Carnegie read an informal deed of trust announcing at length the general purpose of his gift, there was prolonged applause. He then explained the incidents which inspired the giving of the money at this time, and declared with emphasis that the English-speaking race in the United States and Great Britain once consolidated on the movement for international peace, the success of the measure in the rest of the world would be assured. That Great Britain stood ready to co-operate with the United States, Mr. Carnegie said, he felt certain, and all that was now needed, he added, was the concurrence of the President and Senate in promulgating the movement on behalf of the United States.

A resolution of thanks, placed by Joseph H. Choate, was adopted, as was a proposal by John Leadwelder, of New York that a committee of seven be appointed to consider the subject of organization of a Board of Trustees. Senator Elihu Root, of New York was unanimously elected permanent chairman, and James Scott, solicitor of the State Department, was chosen Secretary. Mr. Carnegie declined to be included in the future organization of the Board of Trustees.

WORLD-WIDE PEACE.
 Exactly what purposes will be served by the gift of \$11,500,000 and its estimated annual income of \$500,000, none of the trustees could say, as

the whole project had been brought forward under the most general terms leaving wide discretion to the trustees. Coming only a day prior to the opening session of the American Society of judicial settlement of international disputes which is co-operating with Secretary of State Knox in the movement for the establishment of a court of arbitration, there is good basis of supposition that the newly created fund commission will lend such aid to the project for the establishment of world wide peace through judicial channels.

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Canadians For King George's Coronation

All Picked Men Will be Chosen and Every Branch of the Service Represented.

Ottawa, Dec. 15.—Canada has been invited to send a military contingent of seven hundred strong to represent the Dominion at the coronation of King George in June. The invitation reached Ottawa today and will be at once accepted.

At the coronation of King Edward Canada was represented by a contingent which numbered something less than six hundred. The contingent which will be picked for the Coronation will be carefully selected. Every part of the Dominion will be drawn upon for the very best men in the Militia. Every arm of the service will be represented, and as well as infantry, artillery and cavalry, there will be a contingent representing the North West Mounted Police.

The Militia Council will at once commence the task of organizing the Coronation contingent.



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