

**PREVENT APPLE SCAB**

Much of the Loss Through This Disease is Needless.

Careful Spraying Will Do the Trick—Three Sprayings Necessary—Either Lime Sulphur or Bordeaux Mixture May Be Used.

(Contributed by Ontario Department of Agriculture, Toronto.)

**T**HIS is the most common and most serious disease of apples in Ontario. It occurs wherever apples are grown, and the scab spots on the fruit and leaves are familiar to almost every fruit grower. In wet seasons it causes a financial loss of many thousands of dollars to the fruit growers of the Province. This is to a large extent a needless loss, for Apple Scab can almost always be prevented no matter how wet the season may be, by thorough, timely and intelligent spraying, in combination with the proper pruning of the trees. The scab only develops and spreads during wet weather. The times of the year therefore when we get our wet weather are the times we have to spray if we are going to prevent scab. One spraying with either lime sulphur or Bordeaux mixture is not sufficient to prevent scab, as the rain gradually washes the spray off, and as the leaves and fruits by growing larger develop more surface to cover. In order to be sure of preventing the disease we must spray from three to six times during the season, the number of sprayings depending upon whether the weather is wet or dry. The first spraying should be done just as or soon after the leaf buds burst. For this application use commercial lime-sulphur, strength 1 gallon commercial to 7 gallons of water. If the grower is certain that there is no San Jose Scale in the orchard and very little Oyster Shell Scale, a weaker solution may be used, 1 gallon to about 20 gallons of water, or Bordeaux mixture 4.4.40 formula may be substituted.

The second spraying should be given just before the blossoms open, that is, just when they are showing pink, using commercial lime-sulphur strength 1 gallon to 35 gallons of water, or Bordeaux mixture 4.4.40 formula.

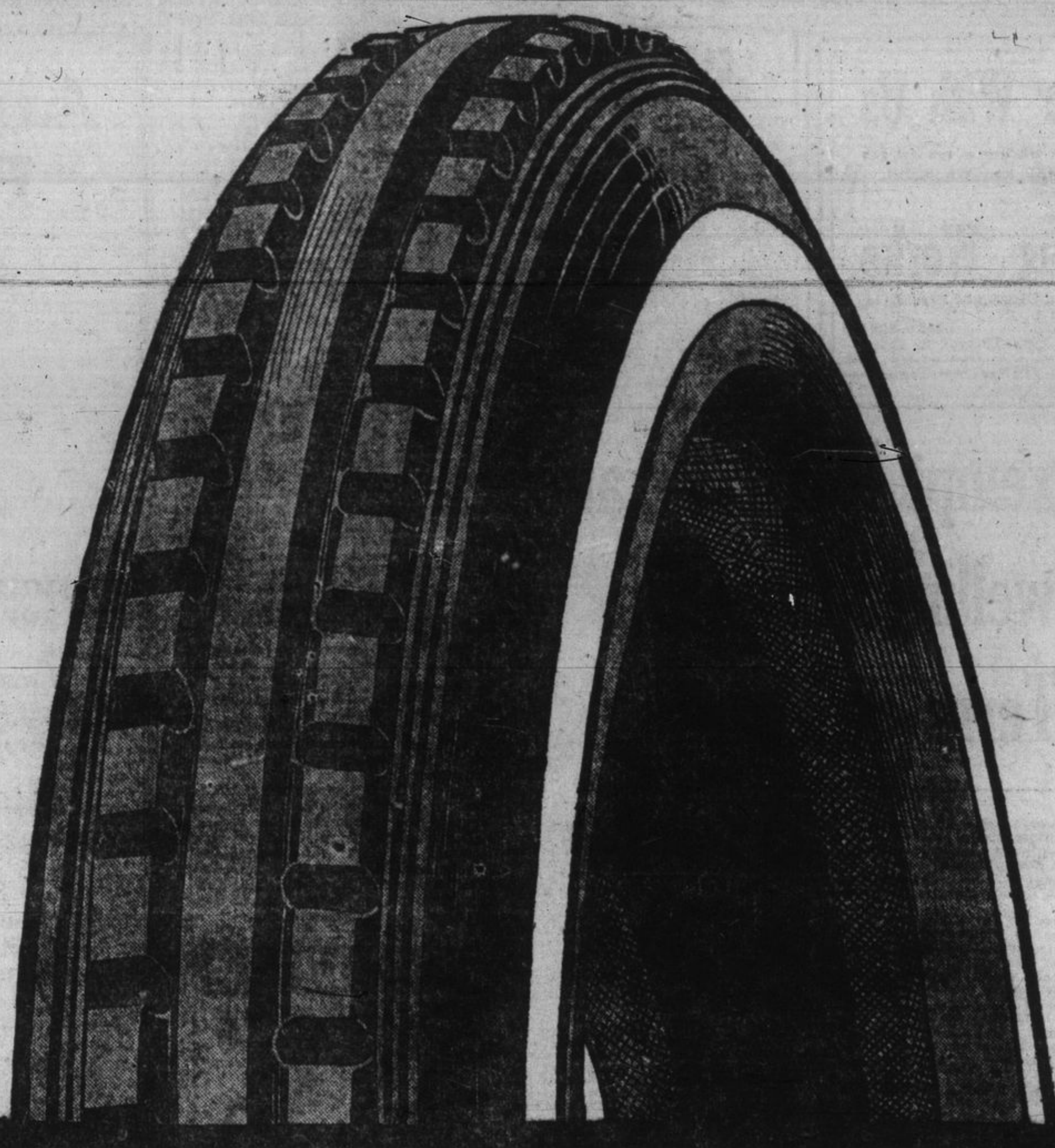
In average seasons the third application should be given immediately after the blossoms have all or nearly all fallen, with lime-sulphur strength, 1 gallon to 40 gallons of water. This is generally the most important spray for the control of Apple Scab and always for Codling Moth, and it must be promptly applied, as a delay of a day or two may make all the difference between success and failure. Bordeaux mixture should not be used at this time, as it is almost sure to cause the fruit to be russeted. Arsenite of lead should be added for the second and third sprayings to control Codling Moth and other biting insects.

In seasons of normal weather conditions these first three sprayings should control the scab completely. In some seasons, however, additional applications are absolutely necessary if the scab is to be prevented. The time of these will depend upon when we get our cold, wet weather. In some seasons there is a long period of cold, wet weather between the date when the blossoms begin to burst and when they fall. Sometimes the length of this period is three or four weeks. In such cases it is necessary to give an intermediate spraying between the second and third. Hence, if the grower finds at the end of twelve days or two weeks after he has applied the second spray that the weather is still cold and wet and development of the blossoms is very slow, another spraying should be given at once to protect the young blossoms and foliage. This should be of the same strength as for the third regular spraying, but poison should be omitted because of the bees. It is very important to observe carefully the weather conditions and apply this spray when necessary.

Spraying early in August is an insurance against late infection of Apple Scab and Sooty Fungus. In wet summers such spraying is necessary to prevent late attacks of scab, especially with varieties such as McIntosh Red and Snows, which are very susceptible to scab. For this application use a weak lime-sulphur solution, 1 gallon to 40 or 45 gallons of water, or Bordeaux mixture. No poison should be used at this time. Often if the spraying is done later than the first or second week in August there is a chance of the fruit being discolored at picking time. Should the dust method prove satisfactory it can be used at any time in the fall without danger of staining the fruit. If the early sprayings are thoroughly done, and the fall is not extremely wet, usually the crop will remain clean without this last application.

**Thoroughness in Spraying.**—Very few men spray thoroughly enough to get the best results. The object of spraying is to cover the surfaces of the leaves and fruits with a good fungicide (a substance which destroys the spores of fungi), such as lime-sulphur or Bordeaux mixture, so that when a spore reaches leaf or fruit it is destroyed and cannot grow and cause scab. We see, therefore, that if spraying is to accomplish its object it must be very thoroughly done; every fruit and leaf must be completely covered with the fungicide so that there is not the least space on which a spore can germinate. Thorough spraying necessitates the liberal use of the spray mixture. A large apple tree will require from six to ten gallons or more to cover it properly. Care must be taken to reach every side of the young forming fruit or flower cup which develop into the fruits.—Prof. J. E. Howitt, O. A. College, Guelph.

On Wednesday at St. Patrick's Roman Catholic church, Ottawa, Miss Edna Proctor, third daughter of the late James R. Proctor and Mrs. Proctor, formerly of Alexandria, Ont., was united in marriage to Thomas W. Bathurst, son of Mr. and Mrs. Duncan J. Bathurst, Dalhousie Mills, Ont. A quiet wedding was solemnized in Westboro, when Miss Anna Elizabeth Wilson, of Merrickville, became the bride of Harry Benn, Ottawa.



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