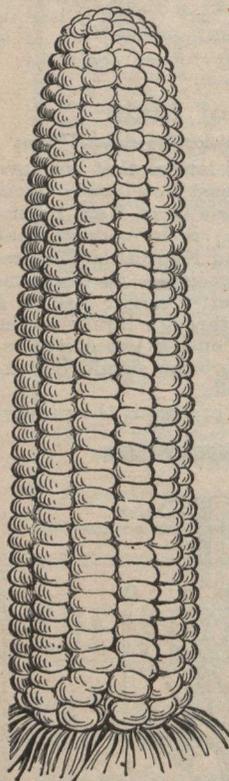


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ation of arsenite of soda by the boiling together of white arsenic and washing soda (carbonate of soda, in crystals). The proportions generally recommended are, white arsenic, one pound; washing soda, four pounds; water, one gallon. A few minutes' boiling usually suffices to dissolve the arsenic and soda, and the result is a solution of arsenic of soda. *This cannot be used as a spray, as it is strongly corrosive and would very quickly strip the trees of their foliage. It must be converted into arsenic of lime.*

The conversion of the arsenite of soda into arsenite of lime constitutes the second and very essential part of the process. It may be accomplished in one of two ways, as follows:

1. Thoroughly slake two pounds of good, fresh quick lime and stir into 40 gallons of water; then pour in, with constant stirring of the lime water, one pint of the arsenite of soda solution. The spray is ready for use immediately, as the formation of arsenite of lime takes place at once. This spray contains as much arsenic as one made by adding four ounces of Paris green to 40 gallons. The above proportions allow for a fair excess of lime, which serves the double purpose of preventing injury to foliage and of making visible the degree of thoroughness with which the spray has been applied.

WITH BORDEAUX MIXTURE.

2. This is the more common method as it allows the employment of a fungicide and insecticide in the one spray. Bordeaux mixture made according to the formula used so successfully for so many years (viz, 4:4:40) contains a sufficient excess of lime to allow the addition of one pint of arsenite of soda solution to a barrel of 40 gallons. All that is necessary is to simply pour the requisite quantity of arsenite of soda (one

pint) into the barrel of Bordeaux, stirring meanwhile. We have now Bordeaux mixture containing as much arsenic as the "poisoned Bordeaux mixture," in which four ounces of Paris green per barrel has been used.

In conclusion, may I further emphasize the necessity of clearly distinguishing between arsenite of soda and arsenate of soda; it is the former that is used in the preparation of arsenite of lime (just described), and the latter which is necessary for making the arsenate of lead spray. Failure to recognize that there are these two classes of compounds—arsenites and arsenates—each with its own characteristics, has frequently resulted in loss and disappointment.

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Circulars and pamphlets have been received from Benjamin Hammond, Fishkill-on-Hudson, N.Y. They tell about Slug-shot and other preparations for greenhouse, garden and orchard use. Write for copies.

At the annual meeting of the Fruit Growers' Association of Clarkson's and Lorne Park, Ont., the following officers were elected: Pres., L. A. Hamilton; 1st vice-pres., J. P. Stephens; 2nd vice-pres., John Manley; sec., W. G. Horne; treas., W. Clements; directors., R. Lush, C. Sproule, J. Lightfoot, R. Speck, Geo. Manley, G. Adamson and J. Pengelly. The various reports submitted showed the association to be in a highly prosperous condition and to be accomplishing an excellent work in furthering the interests of the fruit growers of that locality.

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