

hyposulphite and the sulphides of lime and potash, all tend to render the arsenic of Paris green and London purple soluble, and hence can not be wisely used in connection with these poisons. The copper carbonate, however, which in the ammoniacal solution is the beneficial agent in preventing the apple scab, does not have this effect when used without the ammonia. The question therefore arises, Is the ammonia solvent necessary?

I have recently made some tests with a sample of commercial precipitated copper carbonate, and find that its state of division is such that it remains suspended in water rather better than Paris green, and so may be applied by any apparatus that successfully distributes the latter. It apparently adheres to the foliage nearly or quite as well, when applied in simple suspension, as in the diluted ammoniacal solution.

I recommend, therefore, that those who spray their apple trees for the prevention of injury from the codling moth, make the experiment in a portion of the orchard of adding the precipitated copper carbonate to the water, at the rate of an ounce to twenty-five gallons. No harm to the foliage can result from this measure, while we have every reason to expect that much benefit will accrue in the prevention of the apple scab.

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### NOTES ON NEW FRUITS.

**J** HUBBARDSTON'S Nonsuch seems steadily to be growing in favor as a valuable market apple. One party, having quite a large crop the past year of fine quality, sold them at nearly double the price of ordinary sorts.

The MILDING, which is one of the few new sorts sufficiently hardy enough to thrive in the extreme north, where the Baldwin winter-kills, seems fair to become one of our standard varieties of fine colored apples. It bears young with annual crops, fruit of good size, beautiful color and fine quality.

The LONGFIELD, a Russian variety recently introduced, commends itself on account of the tree being very hardy and very productive, while the fruit keeps well into March.

VERMONT BEAUTY PEAR. This exceedingly beautiful variety seems to be steadily growing in favor and evidently possesses many points of excellence. The tree is a strong stocky grower, good bearer and very hardy. This variety is highly commended by Dr. Hoskins, of Vermont.

HYNES' SURPRISE PEACH is a valuable early variety very hardy in fruit bud, productive and entirely a free stone, ripening immediately after Early Rivers.