

CHEAPEST AND MOST EFFECTIVE SPRAY

A PUBLIC DEMONSTRATION IN MR. ARCHIBALD'S ORCHARD NEAR ST. CATHARINES—A THRESHING ENGINE UTILIZED TO COOK THE LIME AND SULPHUR WASH—INSPECTOR FISHER'S PERSEVERANCE BRINGS SUCCESS.



FIG. 2482. ORCHARD SPRAYED WITH LIME AND SULPHUR MIXTURE.

THE Hon. John Dryden has recently received the report of the San Jose Scale Commission on Mr. Geo. E. Fisher's work as inspector, and these gentlemen have expressed themselves fully satisfied with the results attained thus far.

For fungous diseases of fruit trees of all kinds, and for scale insects, a winter or spring application of the lime and sulphur wash was found to be the best and cheapest remedy, and this in the opinion of Mr. Fisher, might be profitably applied to one's whole orchard whether affected by scale or not, because it cleansed the bark and made the tree more vigorous.

On Wednesday, the 19th, an orchard demonstration meeting was held on the farm of Mr. Archibald, near St. Catharines, at which a large number of fruit growers were present, and in addition, as representatives of the Government, Mr. G. C. Creelman, Secretary of our Association, Mr. Alexander

tor, and Mr. L. Woolverton, Secretary of the Ontario Fruit Experiment Stations.

The great objection so far offered to the use of this remedy was the trouble of preparation, but here we found Mr. Fisher preparing it in a wholesale way, and at a cost of only about $1\frac{1}{4}$ cent a gallon, or about $\frac{1}{8}$ the cost of whale oil soap. Twelve kerosene barrels were arranged in a row, as shown in our engraving, and the contents kept boiling by the steam generated in the threshing machine boiler at the end, and conducted to each barrel by gas piping. The formula used was one pound of lime to one half pound of sulphur in one gallon of water, all boiled at least two hours, and applied hot. If allowed to cool before applying, a chemical change takes place which renders it less effective. After Mr. Fisher had explained the process of preparation, the crowd retired to the orchard and examined trees McNeill, of Ottawa, Dominion Fruit Inspec-



FIG. 2483. BOILING LIME AND SULPHUR AT McCARDLE'S.