

per sulphate and the lime-sulphur wash on dormant vines, and Bordeaux and soda Bordeaux at intervals during the growing season.

The following substances were used against the San Jose scale: The lime-sulphur wash (unboiled), the kerosene-limoid mixture, the Carlson mixture, and Pratt's Anti-scale Remedy.

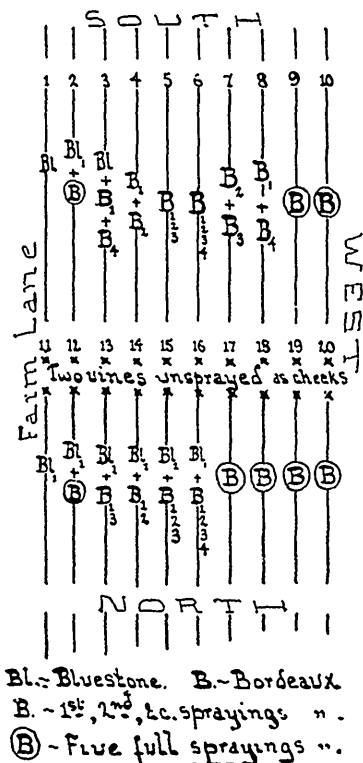
The first round of experiments and demonstrations, as announced in the May issue of *The Horticulturist*, was held as follows: April 13, at Mr. Murray Pettit's, Winona; April 14, at Mr. Ambrose Pettit's, Grimsby; April 15, at Mr. R. Kelly's and at Mr. Bartlett's, Beamsville; April 17, at Mr. J. Fretz's, Jordan; April 18, at Mr. George Robertson's and Mr. Pay's, St. Catharines; April 19, at Mr. Jas. Hutchison's, Virgil; April 20, at Queenston; April 21, at Niagara Falls.

On account of the large extent of territory to be covered the owners of the vineyards and orchards in which the experiments were conducted were asked to provide facilities for the preparation of the chemicals used, such as hot water or steam, a kettle, two or three barrels, and a small amount of lime, sulphur, and copper sulphate. The owners were also asked to have the grape vines cleaned of old bark.

The spraying operations for the remainder of the summer will be directed mainly against the grape rots. It is hoped that the results will indicate (1) the proper time to apply the Bordeaux, (2) the number of applications which will be necessary for the production of clean grapes, (3) the most effective sprayings of the season's operations, and (4) those sprayings which may be omitted with safety.

The bluestone application (four pounds to 40 gallons of water), according to the Ohio authorities of doubtful value, is made in the spring while the vines are dormant, the first Bordeaux (B1) spraying about the

DIAGRAM OF MR. MURRAY PETTIT'S EXPERIMENTAL VINEYARD AT WINONA.



first week in June when the new growths are from 12 to 18 inches long, the second Bordeaux (B2) after blossoming about the first week in July, and subsequent applications at intervals of 10 days or two weeks.

The accompanying chart of the experimental vineyard at Mr. Murray Pettit's will show clearly the varied nature of the applications and the information which we may hope to get from the experiments. Mr. P. W. Hodgetts, B. S. A. of the Department of Agriculture, has consented to act along with me in carrying out these experiments, and he will probably conduct the July and August experiments.

Barnyard manure, made chiefly from grain and hay, is not well balanced in fertilizing ingredients for strawberries.