

10. Test of 20 varieties of potatoes—yield of from 340 to 351 bushels per acre obtained with late varieties.
11. Sale at market prices of 100 bushels of above potatoes for seed purposes.
12. Experiments with insecticides and fungicides.
14. Conducting of fertilizer experiments on three different farms.
15. Conducting of stock judging competitions for boys at fall fairs, four in all.
16. Exhibit at County Fair, Morrisburg. Insects, plant diseases, weeds, products of sprayed and unsprayed orchards, spraying materials, apparatus, etc., produce of Demonstration Plots, distribution of bulletins, etc.
17. In 1909, during Fair, actual drainage work going on. Taking of levels, grading, etc., demonstrated.
18. Demonstration of good orchard culture by personal (assistant and myself) care of four orchards; constant supervision and direction of care of another.

RESULTS:—

Orchard No. 1: Marked difference in yield and quantity of fruit on sprayed and unsprayed part.

Area,—1 1-3 acres; 43 trees.

Total yield, 143 bbls.

Unsprayed part,—One row of trees through centre of orchard—total yield of those 5 trees, 7 bbls.; less than 1 bbl. of No. 1 apples.

Net returns to owner, \$400, (apples sold on trees). Cost of spraying material, \$7.90.

No record kept of cost of pruning or cultivation.

In unsprayed orchards in neighbourhood, apples scarce and of worst quality.

Orchard No. 2: (four miles distant from No. 1).

14 trees McIntosh, 16 trees Fameuse—\$350 worth of apples harvested at market price. No check trees kept. Cost of spraying material \$5.69.

In nearby orchard from which 100 bbls. were sold in 1909, less than 10 bbls. were of inferior quality in 1910. In adjoining orchard, apples worthless. (This is the case with all unsprayed McIntosh and Fameuse apples this year). Fruit from this orchard taken by Dominion Department of Agriculture to World's Fair, at Brussels.

Orchard No. 3: (Two miles from orchard No. 1 and orchard No. 2).