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## POPULAR AND PRACTICAL ENTOMOLOGY. PRACTICAL RESULTS IN SPRAYING A COMMERCIAL ORCHARD FOR THE GREEN APPLE BUG.

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The cost of spraying for sucking insects is so much higher than for fungous diseases and biting insects, that even progressive fruit growers sometimes hesitate before applying the remedies recommended for insects of this type. In the case of orchard aphids, it is often difficult to advise a definite course of action—outbreaks of these insects are so dependent upon climatic conditions and the action of parasitic and predaceous enemies. In the case of severe infestations of the Green Apple Bug (*Lygus communis* var. *novascotiensis* Knight), no such hesitation need be experienced. An abundance of data has now been accumulated, which shows that even when a single year only is considered, economically profitable results can be expected, though, of course, the benefit from the work should be considered over a period of years. The tables accompanying this paper give details of the results of control operations in one orchard. Needless to say, such results can only be obtained by a thorough knowledge of the life-history and habits of the pest and by the most thorough and searching work.

The orchard for experiment was taken over in 1917 as a demonstration in the control of the Green Apple Bug. One part, comprising approximately 6 acres, consisted of very large 60 year old trees of mixed varieties; another part consisted of about four acres of 30 year old trees, mostly Golden Russets. The remainder consisted of a mixed lot of trees of varying ages, but mostly younger than the Golden Russets, comprising between two and three acres. This lot was very thickly planted and set with fillers of plums, pears, etc.

The work of the insects was first noticed in the old orchard where the infestation was still most severe. Here it was gradually rendering the trees worthless, reducing the crops of the chief