

Soybean Aphid Yield Impact

(Interim Report)

Purpose:

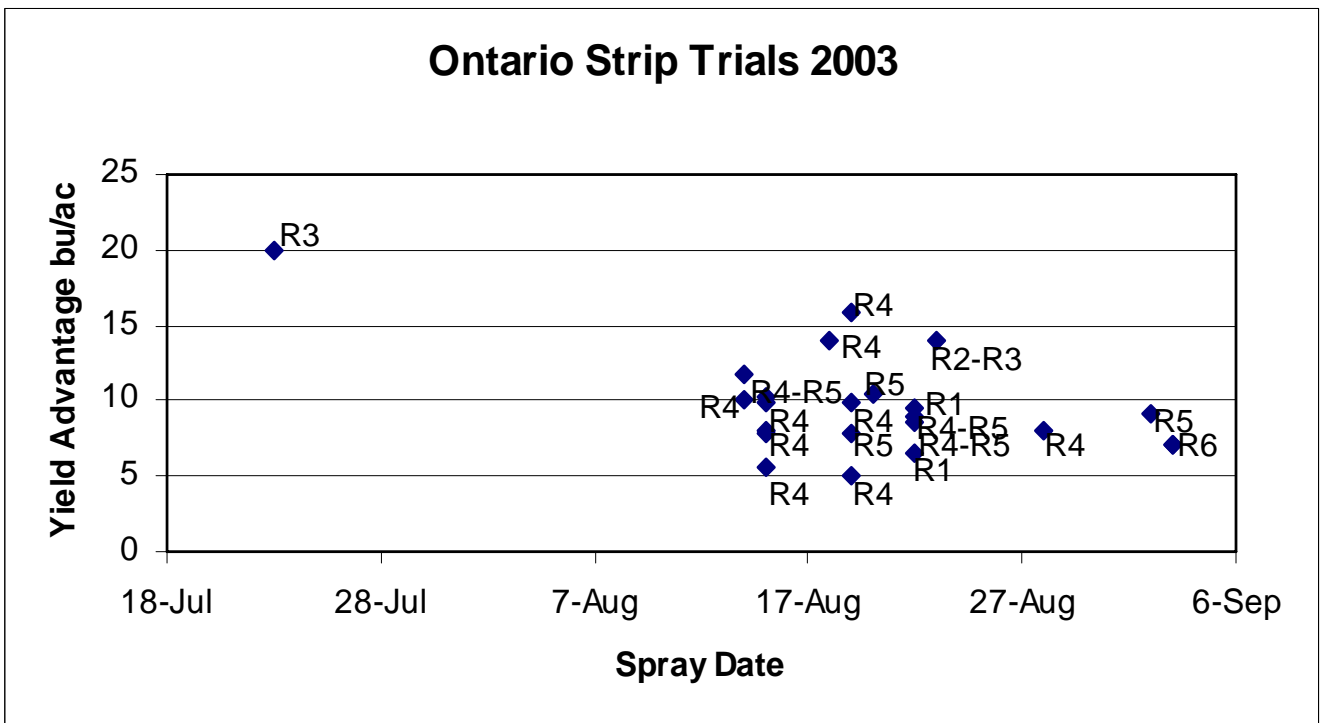
On farm insecticide trials were evaluated to determine the yield impact soybean aphids caused in 2003.

Methods:

On farm strip trial data was collected from Ontario growers and ag business operations using an online and pdf form available on the OMAFRA website. Yield advantage to insecticide application was determined.

Results:

Figure 1. Yield advantage (bu/ac) demonstrated from 21 on farm strip trials conducting in Ontario in 2003. Soybean growth stages at time of application are also provided.



Summary:

Yield data comparing untreated versus treated areas were collected from 21 on-farm strip trials. An average of 9 bu/ac advantage was demonstrated even when fields were sprayed as late at the R5 stage (Figure 1). Results were presented to the North American soybean aphid research team. Having demonstrated a yield response in the

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later R stages of soybeans, 2004 thresholds and spray timing recommendations were lengthened to include the R4 stage of soybeans, thanks to the Ontario data set.

Next Steps:

Yield data from on farm spray trials will again be collected to assess the yield impact of soybean aphids at various plant stages. Thresholds and spray timing intervals will also be validated.

Acknowledgements:

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