

## **Evaluation Report for Category C Subcategory C.3.9 (Level of Control) Application**

**Application Number:** 2006-2193  
**Application:** Evaluation Report for Category C  
Subcategory C.3.9 (Level of Control) Application  
**Product:** Cruiser 350FS Seed Treatment Insecticide  
**Registration Number:** 27986  
**Active ingredients (a.i.):** Thiamethoxam  
**PMRA Document Number :** 1438528

### **Purpose of Application**

The purpose of this submission is to add the rate of 10 g thiamethoxam per 100 kg for wireworm suppression on wheat and barley.

### **Value Assessment**

Efficacy trials were conducted to support the new lower rate of 10 g thiamethoxam per 100 kg seed (29 ml Cruiser 350 FS per 100 kg seed) for the suppression of wireworm in wheat and barley, comparing the lower rate to the registered rate of Cruiser 350 FS for control of wireworm in wheat and barley (20 to 30 g thiamethoxam per 100 kg seed, or 57 to 86 ml Cruiser 350 FS per 100 kg seed). A rationale was also submitted to support the addition of a suppression rate, indicating that it will provide growers with a lower cost option for protecting their crops from wireworm, as well as an option for reducing pesticide use in agriculture. The data which was submitted demonstrates that 10 g of thiamethoxam per 100 kg seed reduces wireworm populations in wheat and barley, while not providing levels of control equivalent to those registered for control of wireworm for Cruiser 350 FS. The trials, therefore, support a claim for suppression of wireworm in wheat and barley at a rate of 10 g thiamethoxam per 100 kg seed. Providing an option to wheat and barley growers for wireworm suppression by applying thiamethoxam at a lower rate may provide both a financial benefit and allow for the reduction in the application of pesticide, while still providing some level of protection from this pest.

### **Conclusion**

The PMRA has completed an evaluation of the subject application and has found the information sufficient to amend the registration of Cruiser 350FS Seed Treatment Insecticide to include the rate of 10 g thiamethoxam per 100 kg for wireworm suppression on wheat and barley.

## **References**

### **A. List of Studies/Information Submitted by Applicant**

PMRA 1172651      Small scale field efficacy studies. 23 pp. DACO 10.2.3.3.  
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