



Evaluation Report for Category C.3.11 Application

Application Number: 2012-4591
Application: Amendment
Product: Stress Shield 600
Registration Number: 30668
Active ingredients (a.i.): Imidacloprid
PMRA Document Number: 2343047

Background

Bayer CropScience Inc. has submitted an application to expand the label of Stress Shield 600 (Reg. No. 30668, 600 g/L imidacloprid). Stress Shield 600 is a systemic seed treatment insecticide which is registered for the protection of wheat, barley, oats, and legumes against certain insect pests.

Purpose of Application

The purpose of this application is to add early-season protection against crop stand injury caused by white grubs on wheat, barley, oats and soybean to the Stress Shield 600 label. White grubs includes the larvae of several beetle species within the family Scarabaeidae including Japanese beetle (*Popillia japonica*) and European chafer (*Rhizotrogus majalis*). This application is only to add a new pest to the currently registered use pattern and application rates for Stress Shield 600.

Chemistry Assessment

n/a

Health Assessments

n/a

Environmental Assessment

n/a

Value Assessment

Data from 3 micro-plot trials on soybean and 3 on wheat were submitted to support a claim of protection from early season crop stand damage caused by European chafer and Japanese beetle. The trials included 1 trial on Japanese beetle grubs in soybean; all other trials were on European chafer grubs. Plots were artificially infested with grubs, following which plant stand was counted at regular intervals. Two of the 3 submitted soybean trials and 2 of the 3 wheat trials demonstrated an increase in plant stand in the Stress Shield 600 treated plots.

Given that Stress Shield 600 is registered for several other pests on soybean, wheat, barley and oats at the same application rates for European chafer and Japanese beetle, the submitted data and rationales are sufficient to support the addition of a claim of early season protection against crop stand injury caused by larvae of European chafer and Japanese beetle in soybean at an application rate of 62.5 to 125 mg a.i. per 100 kg seed and wheat, barley and oats at an application rate of 10 to 30 mg a.i. per 100 kg seed.

Conclusion

The addition of a claim of early season protection against crop stand injury caused by larvae of European chafer and Japanese beetle in soybean at an application rate of 62.5 to 125 mg a.i. per 100 kg seed and wheat, barley and oats at an application rate of 10 to 30 mg a.i. per 100 kg seed is supported.

References

- 2243972 2012, Stress Shield 600 - data to support the addition of white grubs to the label, DACO: 10.1,10.2.3,10.2.3.1,10.2.3.2(C),10.2.3.3(C)
- 2243973 2012, 10.2 Stress Shield 600 Grubs EFFICACY, DACO: 10.2.3.3(D)

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