

**Rhizoctonia root disease in cereals – we are losing yield!**



Rhizoctonia in direct drilled Hindmarsh barley at Swan Hill in 2015



**Evergol Prime** from Swan Hill Stockfeeds applied to seed at 60mL/100 kg provides excellent protection

**Rhizoctonia root rot (Rhizo)**

2014 and 2015 were bad *rhizoctonia* years. Both followed dry summers, which meant less activity of disease suppressive soil organisms.

“Rhizo” was present in both wheat, and was particularly severe in barley.

Key points:

- It results from the crop’s roots being invaded by the organism *Rhizoctonia AG-8* strain
- Yield losses in areas of barley crops have been measured this year as high as 200kg/ha, or \$40/ha.
- Grasses, especially brome grass, are efficient hosts
- All cereal crops are susceptible and also act as hosts
- Summer rainfall events greater than 30mm promote reductions in “Rhizo” levels
- Low soil zinc levels predispose cereal crops to “Rhizo”
- Group B sulphonylurea and Group B IMI herbicides exacerbate Rhizo
- Pulses are effective break crops
- Canola is an extremely good break crop

**Evergol Prime seed treatment applied at 60-80 mL/100kg costs only \$5.40-\$7.20/hectare**



# EverGol<sup>®</sup> Prime - A new Standard in Fungicidal Seed Treatment



## EverGol<sup>®</sup> Prime

### AT A GLANCE

EverGol Prime is an innovative new generation Succinate Dehydrogenase Inhibitor (SDHI) fungicidal seed treatment from Bayer.

Featuring the new proprietary active ingredient penflufen, EverGol Prime will set a new standard in fungicidal protection in wheat and barley. In addition to controlling smut and bunt diseases, EverGol Prime is highly active on the complex root disease *Rhizoctonia solani*, the most costly root disease in Southern and Western Australia.

Due to the powerful disease control of penflufen, EverGol Prime improves plant vigour helping to develop stronger, fitter plants with increased stem diameter and overall biomass. The high-performing root system allows for optimal access to water and nutrients due to reduced root spear-tipping and increased root growth.

Fitter, stronger crops improves your ability to maximise the yield potential of your wheat and barley crop.

Registration is expected in time for 2013 broadacre cereal season.

<b>Product name:</b>	EverGol <sup>®</sup> Prime
<b>Fungicide mode of action group:</b>	Group 7 Carboxamides
<b>Formulation:</b>	Flowable suspension for seed treatment (FS)
<b>Penflufen:</b>	240 g/L
<b>Application rate:</b>	40-80 mL/100 kg seed
<b>Dilution rate:</b>	No more than 600 mL/100 kg seed
<b>Spectrum:</b>	Rhizoctonia, bunt & smut diseases
<b>Crop usage:</b>	Wheat & barley
<b>Planned availability:</b>	2013 season

### ACTIVE INGREDIENT

The new active ingredient penflufen is a powerful SDHI group 7 carboxamide molecule with a new mode of action and new levels of activity against rhizoctonia root disease. Due to the seed treatment application, the active ingredient stays where it is needed resulting in local systemic behaviour and a longer lasting effect.

### KEY FEATURES

- Powerful new group 7 SDHI active ingredient penflufen
- Effective disease control resulting in stronger, fitter plants with improved biomass
- Effective disease control resulting in improved root mass and reduced spear-tipping
- Superior activity against rhizoctonia root rot\*
- Control of smut and bunt diseases\*
- Maximise your yield potential
- Variable use rate

# Suppression of rhizoctonia root rot. \*Suppression of soil-borne flag smut.

### 3 m of row

09ND22 128 DAP-inoculated



Untreated

Dividend<sup>®</sup>  
260 mL/100 kg

EverGol Prime  
60 mL/100 kg

EverGol Prime  
80 mL/100 kg



Bayer CropScience

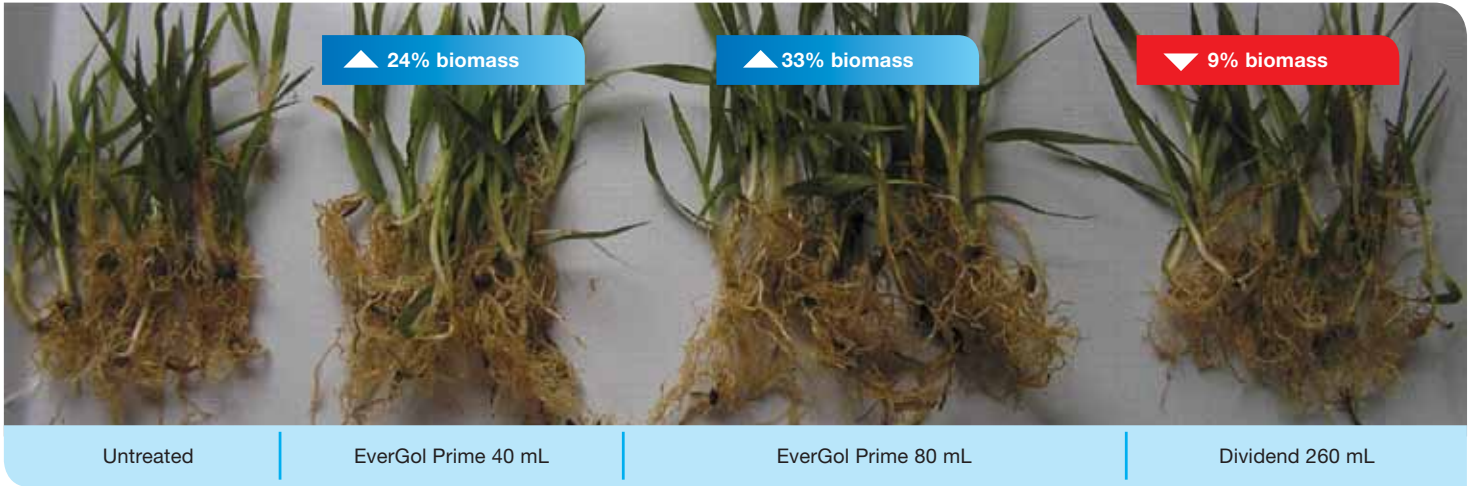


# The new standard for rhizoctonia management

## Seedling Comparison

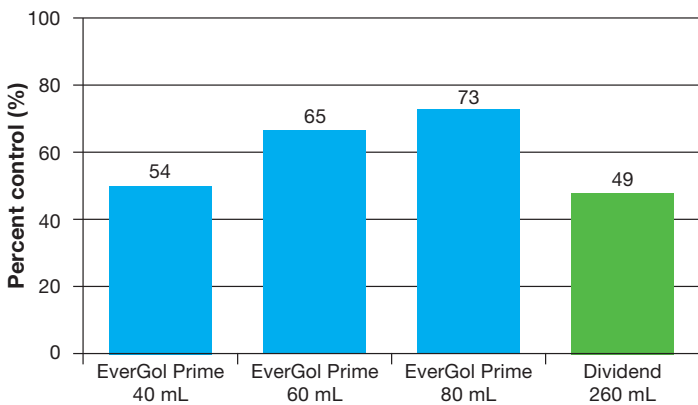
10ND02 56 DAP - natural infection

Rate per 100 kg seed



## Trial Data

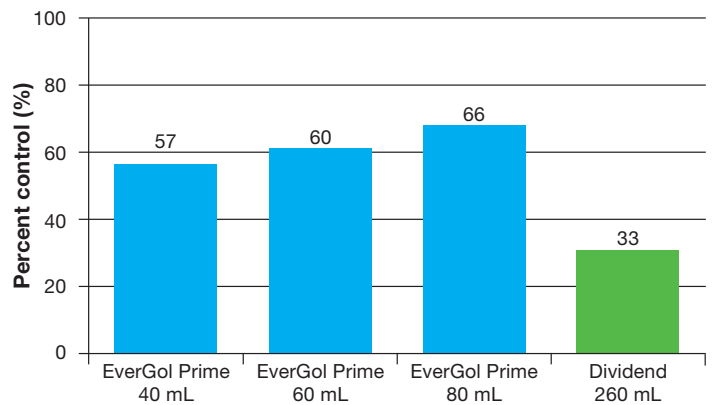
Average rhizoctonia control in wheat (4 trials\*)



\*Average 07DC26, 08ND12, 09NW13 & 09VA08

Rate per 100 kg

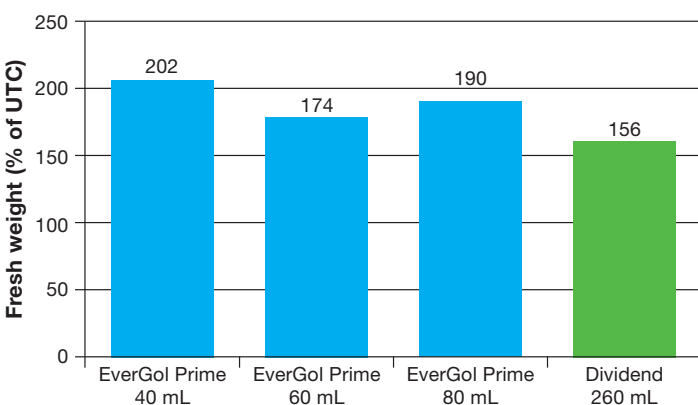
Average rhizoctonia control in barley (4 trials\*)



\*Average 08WA19, 09ND21, 09ND22, 09WA17

Rate per 100 kg

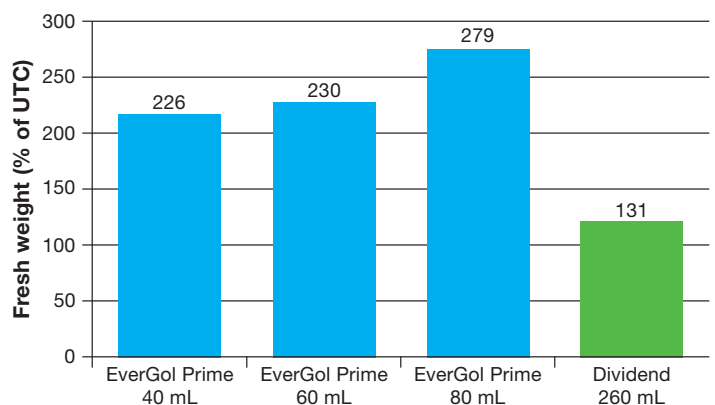
Average wheat fresh weight 40-50 DAP (4 trials\*)



\*Average 07DC26, 08ND12, 09NW13 & 09VA08

Rate per 100 kg

Average barley fresh weight 40-50 DAP (4 trials\*)



\*Average 08WA19, 09ND21, 09ND22, 09WA17

Rate per 100 kg



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EverGol® is a registered trademark of the Bayer Group.

An application for the registration of EverGol Prime has been made.

At the time of publication this product is not registered.

[www.bayercropscience.com.au](http://www.bayercropscience.com.au)

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