

# Seed Treatment Trial

Leigh Nairn, Agronomist, GNRS



**Location:** CA SIMKIN & Co.

**Plot Size & Replication:**  
1.8m x 20m, 3 Replications

**Soil Type:**  
Yellow Sandplain

**Sowing Date:**  
8/05/14

**Seeding Rate:**  
70kg Mace

**Paddock Rotation:**  
2013: Wheat

**Growing Season**

**Rainfall:**  
250mm??

## Aim

To investigate the efficiencies of various seed dressing options for the control and or suppression of *Rhizoctonia* in wheat.

## Background

*Rhizoctonia* is a soil borne disease affecting a wide range of crops and has become more prevalent throughout Western Australia in recent years following the introduction of minimum tillage practices. *Rhizoctonia* is estimated to cost Australian growers \$27 million each year. Current management practices used to reduce the impacts of this damaging disease are combinations of cultivation, with fungicide seed treatment and adequate nutrition. Recently alternative methods involving liquid injection have been promoted and can offer growers greater flexibility for management of *Rhizoctonia*.

## Trial Details

**Fertiliser:** pre: DAP @ 50kg

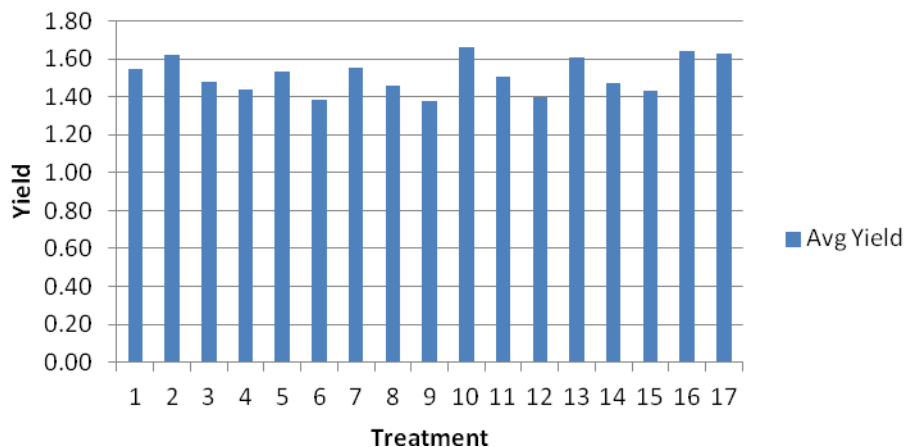
**Herbicide:** Pre: Sakura 118gm/ha, Trifluralin 2L/ha, Sprayseed 2L/ha  
Post: Velocity 500ml/ha, LVE 500ml/ha

**Assessments:** Assessments for seedling vigour were taken on the 6<sup>th</sup> June (later than expected). A vigour rating out of 10 was given utilizing establishment and plant health and height. Plants showing symptoms of yellow leaf spot (YLS) were also recorded.

**Trial design:** The trial was a randomized, with Mace sown at 70kg/ha, 15 seed treatments + two Nil treatments, and three replicates. Plots were 1.8m x 20m (trimmed to 18m), 8 rows (trimmed at harvest to 6 rows)

## Results

### Avg Yield



Seed Dressing	Rate	Banded Rate	Avg Yield
Evergol Prime	40	Nil	1.55
Vibrance	180	Nil	1.62
Vibrance	360	Nil	1.48
Systiva	150ml	Nil	1.44
BAS 673	31.25ml	Nil	1.53
Nil	100	Ezyflow Zn 100 ml/ha	1.38
Nil	Nil	Nil	1.56
Evergol Prime	80	Nil	1.46
Nil	Nil	Uniform 200ml	1.38
Nil	Nil	Uniform 400ml	1.66
Systiva + BAS 673	181.25ml	Nil	1.51
Nil	200	Ezyflow Zn300 ml/ha	1.40
Nil	Nil	Nil	1.61
Evergol Prime	30	60ml/ha Evergol	1.47
Evergol Prime	30	120ml/ha Evergol	1.43
Vibrance + Uniform	180ml	Uniform 200ml	1.64
Vibrance + Uniform	90ml	Uniform 400ml	1.63
<b>I.s.d 0.5%</b>			<b>0.345</b>

## Key Messages

- Hot weather in three weeks in August may have impacted the range of results that could be expected
- Yellow spot was quite evident early in many of the plots, with the treatments claiming to have some protection (Systiva)

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