

Seed Treatment Trial

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Location: Silver Springs,
Ogilvie

Plot Size & Replication:
1.8m x 20m, # Replications

Soil Type:
Red Loam

Sowing Date:
18/05/14

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

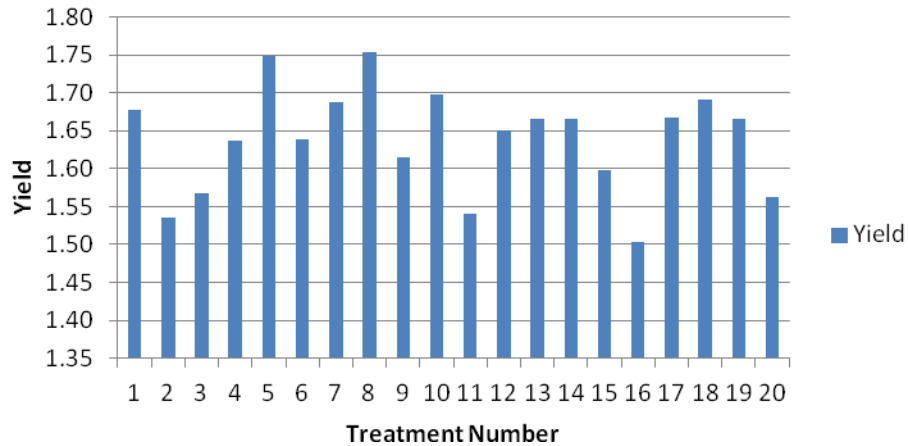
Herbicide: **Pre:** Sakura 118gm/ha, Trifluralin 2L/ha, Sprayseed 2L/ha

Post: Velocity 500ml/ha, LVE 500ml/ha

Results

Treatment	Rate/100kg	Banded Rate	Avg Yield
Evergol Prime	40ml	Nil	1.68
Evergol Prime	80ml	Nil	1.54
Vibrance	180ml	Nil	1.57
Vibrance	360ml	Nil	1.64
Jumpstart	150ml	100% Fert	1.75
Systiva	150ml	Nil	1.64
Jumpstart	150ml	50% Fert	1.69
Systiva + BAS 673	181.25ml	Nil	1.75
Nil	Nil	Nil	1.62
Jumpstart Granule	Nil	100% Fert	1.70
Nil	Nil	Uniform 200ml	1.54
Nil	Nil	Uniform 400ml	1.65
Jumpstart Granule	Nil	50% Fert	1.67
Nil	100ml	Ezyflow Zn 100 ml/ha	1.67
Nil	200ml	Ezyflow Zn300 ml/ha	1.60
Nil	Nil	Nil	1.50
Evergol Prime	30ml	60ml/ha Evergol	1.67
Evergol Prime	30ml	120ml/ha Evergol	1.69
Vibrance + Uniform	180ml	Uniform 200ml	1.67
Vibrance + Uniform	90ml	Uniform 400ml	1.56
		I.s.d. (5%)	0.1694

Avg. Yield



Key Messages

- Qualitative research suggests that the result seem significant however quantitative findings, with a l.s.d. of 0.169 suggest otherwise.
- Seed treatments claiming to give protection against yellow spot were hard to find as leaf disease in this trial was basically non evident or at very low rates quite early, with the crop getting away from it before GS39
- All Jumpstart treatments performed well, all generating greater yield than untreated, albeit, data suggests this is also significant
- The nil treatment gave the least return on yield with a result of 1.5t/ha and the greatest

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