

Wheat Seed Dressing - Crown Rot Trial 2016

Crop Name				Wheat			
Rating Date				Oct-6-2016		Nov-26-2016	
Rating Type/Unit				White heads per plot		YIELD T/ha	
Number of Subsamples				1		1	
ARM Action Codes				AS		TY1	
No.	Treatment	Rate	Unit	1		3	
1	Tebu T	1	l/ton	52.3	a	3.41	a
2	Vibrance	1.8	l/ton	52.2	a	3.3	a
3	Rancona	3.2	l/ton	20.4	a	3.41	a
4	Evergol Energy	2.6	l/ton	22.7	a	3.34	a
5	Bayer Exp.	2	l/ton	63.5	a	3.43	a
6	Systiva	1.5	l/ton	58.5	a	3.32	a
7	Uniform	200	ml/ha	34.5	a	3.22	a
8	Uniform	400	ml/ha	24.9	a	3.35	a
9	Vibrance	1.8	l/ton	28.1	a	3.26	a
	Uniform	300	ml/ha				
10	Intake	400	ml/ha	38.7	a	3.17	a
	Vibrance	1.8	l/ton				
11	Intake	200	ml/ha	50.1	a	3.3	a
	Uniform	200	ml/ha				
12	Radiate @ Z23-25	300	ml/ha	65.9	a	3.38	a
13	Awaken @ Z23-25	300	ml/ha	51.6	a	3.45	a
LSD P=.05				43.73 - 44.49		0.207	
CV				31.61t		3.68	
Treatment Prob (F)				0.3954		0.2256	

ARM Action Codes

AS = Automatic square root transformation of $X+0.5$

TY1 = $0.3472222*[C2]$

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)

t=Mean descriptions are reported in transformed data units, and are not de-transformed.

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Missing data estimates are included in columns: Yates=2, 3



SARDI Plant & Soil Health
 Gate 2B, Hartley Gr. P 08 8303 9360
 URRBRAE SA 5064 F 08 8303 9393

Sample: **AAF7731**

Report date: 08/04/2016

Paddock: **P13**

Nearest town: **GRASS PATCH**

Sampling strategy: **Within**

Grower: **SANDERSON FARMS**

Region: **Western**

Stubble added: **Yes**

Paddock history	2 years ago	Last year	This year
Crop / variety		Wheat	Wheat

TEST	RESULT	DISEASE RISK*			
		Not Detected	Low	Med	High
CCN	<0.05 eggs /g soil	■			
Stem nematode	<0.5 nematodes/100 g soil	■			
Take-all	1.7 log(pg DNA/g soil)			■	
Take-all - Oat Strain	<0.8 log(pg DNA/g soil)	■			
Rhizoctonia	1.2 log(pg DNA/g soil)		■		
Crown Rot	3.2 log(pg DNA/g soil)				■
Pratylenchus neglectus	0.2 nematodes /g soil		■		
Pratylenchus thomel	<0.1 nematodes/g soil	■			
Blackspot	2.0 log(pg DNA/g soil)		■		
Blackspot (Phoma koolunga)	1.4 log(pg DNA/g soil)		■		

*Risk categories should be used as a guide only, may be subject to regional and seasonal differences, and may be revised over time.

UNDER EVALUATION

TEST	RESULT	POPULATION DENSITY**			
		Not Detected	Low	Med	High
Bipolaris	<0.5 log(pg DNA/g soil)	■			
Pythium clade f	2.4 log(pg DNA/g soil)				■
Eyespot	<0.3 log(kDNA copies/g soil)	■			
Pratylenchus penetrans	<0.1 nematodes /g soil	■			
Pratylenchus quasitereoides	<0.5 nematodes/g soil	■			

Summary- The white head counts per plot done on the 6th of October showed up some very interesting results with crown rot present in the control. Comparing seed dressings, Rancoma and the new Evergol Energy reduced white head numbers per plot by 61% and 57% respectively. Uniform applied in-furrow also reduced white head numbers greatly as well which very interesting. Although, the white head counts did not correlate to yield this may be due to the wet season with the mild finish.