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This document is based on the results from an individual trial and may contain experimental use patterns that are currently off-label. **This document does not provide any interpretation and should not be taken as an endorsement of any unregistered use pattern.**

Professional advice should be sought for specific recommendations to ensure access to the most up to date information and knowledge.

Any product referred to in this document must be used strictly as directed, and in accordance with all label or permit instructions. Always consult the label prior to use.

Impact of Crown Rot in Cereals

Trial ID: AM0902

Location:

Bullarah

Trial Year: 2009

Investigator:

Anthony Mitchell

Objective:	To evaluate the impact of crown rot in winter cereals in the presence of <i>P thornei</i>
Planting Date:	13/05/2009
Inoculum:	2g/m row applied with seed
Sowing depth:	3cm
Harvest Date:	2/11/2009
Keywords:	Crown rot, <i>Pratylenchus thornei</i> , root-lesion nematode, wheat, barley, durum

NB: This was a benchmarking trial conducted in the absence of *Pratylenchus thornei*

Trt No	Crop	Variety	<i>P thornei</i> Tolerance Rating	Crown Rot Treatment	Emergence 20 DAP Plants/m ²	Yield 173 DAP kg/ha	Yield Impact due to added Crown Rot	
						kg/ha	% Loss	
1	Wheat	EGA Wylie	T	-	37ab	2210cde		
2	Wheat	EGA Wylie	T	Plus inoculum	34abc	2065defg	-145	-7
3	Wheat	EGA Gregory	MT	-	30bcde	1863efg		
4	Wheat	EGA Gregory	MT	Plus inoculum	34abc	1278j	-585	-31
5	Wheat	Ventura	MT-MI	-	30bcde	2090def		
6	Wheat	Ventura	MT-MI	Plus inoculum	25cde	1745fgh	-345	-17
7	Wheat	Livingston	MI	-	34abc	1748fgh		
8	Wheat	Livingston	MI	Plus inoculum	28bcde	1365ij	-383	-22
9	Wheat	Strzelecki	MI-I	-	33abc	1713ghi		
10	Wheat	Strzelecki	MI-I	Plus inoculum	27cde	1148j	-565	-33
11	Wheat	Sunco	I	-	27cde	1758fgh		
12	Wheat	Sunco	I	Plus inoculum	21e	1408hij	-350	-20
13	Barley	Skiff	n/a	-	29bcde	2938a		
14	Barley	Skiff	n/a	Plus inoculum	30bcde	2690ab	-248	-8
15	Barley	Grout	n/a	-	23e	2468bc		
16	Barley	Grout	n/a	Plus inoculum	25cde	2375bcd	-93	-4
17	Durum	Bellaroi	MI	-	40a	2235cde		
18	Durum	Bellaroi	MI	Plus inoculum	25cde	1408hij	-828	-37
19	Durum	Jandaroi	MI	-	32abcd	1960efg		
20	Durum	Jandaroi	MI	Plus inoculum	24de	1745fgh	-215	-11
P =					0.0064	0.0000		
LSD =					9.2	375		

Yield cv = 13.9%

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Trt No	Crop	Variety	<i>P thornei</i> Tolerance Rating	Crown Rot Treatment	Grain Weight g/1000 Grains	Test Weight kg/hL	Screenings %	Protein %
1	Wheat	EGA Wylie	T	-	37de	77ab	0.9j	12.9 d
2	Wheat	EGA Wylie	T	Plus inoculum	36def	77ab	1.2hij	12.9 d
3	Wheat	EGA Gregory	MT	-	33fgh	75cd	3.6bcd	11.4 i
4	Wheat	EGA Gregory	MT	Plus inoculum	34fgh	71fg	4.3abc	11.6 hi
5	Wheat	Ventura	MT-MI	-	35def	75cd	3.6bcd	12.2 efg
6	Wheat	Ventura	MT-MI	Plus inoculum	38d	75bc	3.4bcde	11.9 gh
7	Wheat	Livingston	MI	-	35def	73de	2.1defgh	13.7 c
8	Wheat	Livingston	MI	Plus inoculum	33fgh	70fgh	3.2bcdef	14.2 b
9	Wheat	Strzelecki	MI-I	-	32gh	72ef	2.2defgh	11.9 gh
10	Wheat	Strzelecki	MI-I	Plus inoculum	32h	69hi	4.8abc	12.2 fg
11	Wheat	Sunco	I	-	35efg	77a	1.0ij	12.4 ef
12	Wheat	Sunco	I	Plus inoculum	35efg	77ab	1.6ghij	12.6 de
13	Barley	Skiff	n/a	-	47a	60k	2.3defgh	16.0 a
14	Barley	Skiff	n/a	Plus inoculum	46a	59k	2.9cdefg	15.6 a
15	Barley	Grout	n/a	-	47a	59k	2.0efghij	13.5 c
16	Barley	Grout	n/a	Plus inoculum	45ab	58k	2.8cdefg	13.4 c
17	Durum	Bellaroi	MI	-	37de	68i	5.1ab	13.7 c
18	Durum	Bellaroi	MI	Plus inoculum	35def	64j	6.2a	14.2 b
19	Durum	Jandaroi	MI	-	42bc	72ef	1.8fghij	13.7 c
20	Durum	Jandaroi	MI	Plus inoculum	41c	70ghi	3.0bcdef	14.4 b
P =					0.0000	0.0000	0.0000	0.0000
LSD =					2.7	2.0	Log detransf	Log detransf