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Impact of *Pratylenus thornei* and Crown Rot on Winter Cereals - Bullarah 2016

Trial ID: DK1610 Location: Bullarah Trial Year: 2016
Investigator: Denielle Kilby

Planting Date:	14/06/2016	Total soil N:	148 kg N/ha (21/04/2016)
Harvest Date:	13/12/2016	Target Plant Stand:	90/m ²
Low <i>P. thornei</i> (ex-Suntop 2014):	2.1 Pt/g soil (13/04/2016)	Plot Size (Planted):	12 x 2 m (5 rows x 32cm)
High <i>P. thornei</i> (ex-Strzelecki 2014):	9.5 Pt/g soil (13/04/2016)	Plot Size (Harvested):	10 x 2m
PAW Wheat:	~61mm	Cropping History:	Chickpeas 2012
Trial Reliability:	Marginal	Crown Rot Inoculation:	CR Inoculum applied at planting at 2g/m row

Rep 1 of Trial omitted from reported results due to severe waterlogging and poor crop establishment

Trial designed and analysed as a split plot

	In Simple Terms
Table of A Means:	Mean of 'Nematode Population' performance with ALL 'Crown Rot' treatments and 'Variety' treatments
Table of B Means:	Mean of 'Crown Rot' performance with ALL 'Nematode Population' treatments and 'Variety' treatments
Table of C Means:	Mean of 'Variety' performance with ALL 'Crown Rot' treatments and 'Nematode Population' treatments
Table of A x B Means:	'Nematode Population' performance with EACH 'Crown Rot' treatment
Table of A x C Means:	'Nematode Population' performance with EACH 'Variety' treatment
Table of B x C Means:	'Crown Rot' performance with EACH 'Variety' treatment

How to interpret?

Is there a significant difference for A x B Means
A x C Means or
B x C Means ?

IF YES

Table A x B Means, A x C Means or
B x C Means analysis is the key information

IF NO (ie nsd)

Table A, Table B or Table C Means analysis is the key information

Impact of *Pratylenchus thornei* and Crown Rot on Winter Cereals - Bullarah 2016

Trial ID: DK1610

Location: Bullarah

Trial Year: 2016

Pest Scientific Name						<i>Pratylenchus thornei</i>
Pest Name						Root-lesion Nematode
Crop Name		Wheat				
Assessment Date		12/07/2016	15/08/2016	16/10/2016	30/11/2016	21/04/2017
Assessment Type		EMERGENCE	NDVI	NDVI	YIELD	COUNT
Assessment Unit		/m ²	RATIO	RATIO	t/ha	/g Soil
Crop Stage Majority		12	30	65	99	
Plant-Evaluation Interval		28 DP1	62 DP1	124 DP1	169 DP1	311DP1
CV %					7.6	
ARM Action Codes		ER1	ER1	ER1	ER1	ER1 AL
Trt No.	Treatment					
TABLE OF A MEANS (Nematode Population)						
1	Low	67.5-	0.67-	0.77-	4.94-	2.7-
2	High	71.7-	0.71-	0.78-	4.95-	5.2-
TABLE OF B MEANS (Crown Rot)						
1	- CR	72.7a	0.71a	0.78-	5.14a	3.8-
2	+ CR	66.6b	0.67b	0.77-	4.75b	3.7-
TABLE OF C MEANS (Variety)						
1	Lancer	45.2e	0.54e	0.79abc	4.78ef	4.3c-f
2	Suntop	68.6bc	0.67d	0.81a	5.72a	2.1d-g
3	EGA Gregory	67.4bc	0.70bcd	0.75f	4.71f	7.8abc
4	Sunguard	74.8abc	0.72bcd	0.76c-f	5.23cd	4c-f
5	Spitfire	77.5ab	0.76ab	0.76def	5.33bcd	4.9b-e
6	Sunmate	74.4abc	0.71bcd	0.75f	5.55ab	2.5d-g
7	Suntime	74.6abc	0.72bcd	0.80ab	5.11d	5.4bcd
8	Gauntlet	74.0abc	0.56e	0.79bcd	5.32bcd	2.1d-g
9	Elmore CL	82.0a	0.76abc	0.76ef	5.45abc	17.3a
10	Commander	65.5cd	0.81a	0.75f	3.26h	1.7fg
11	Caparoi	55.8de	0.59e	0.80ab	4.15g	1.8efg
12	DBA Lillaroi	71.0abc	0.70bcd	0.80ab	5.04de	1.1g
13	Viking	69.4bc	0.69cd	0.78b-e	5.06de	1.9efg
14	Strzelecki	74.6abc	0.72bcd	0.75f	4.49f	10.8ab
TABLE OF A x B MEANS (Nematode Population x Crown Rot)						
1	Low	71.6-	0.69-	0.78-	5.13-	2.5-
1	- CR					
2	High	73.8-	0.73-	0.78-	5.15-	5.5-
1	- CR					
1	Low	63.5-	0.65-	0.76-	4.74-	2.8-
2	+ CR					
2	High	69.7-	0.69-	0.78-	4.75-	4.9-
2	+ CR					
TABLE OF A x C MEANS (Nematode Population x Variety)						
1	Low	31.9-	0.49-	0.77-	4.45	3.6-
1	Lancer					
2	High	58.6-	0.58-	0.81-	5.11*	5.1-
1	Lancer					
1	Low	68.5-	0.67-	0.82-	5.85-	0.9-
2	Suntop					
2	High	68.6-	0.67-	0.80-	5.59-	4.0-
2	Suntop					
1	Low	66.0-	0.68-	0.73-	4.57-	5.9-
3	EGA Gregory					
2	High	68.9-	0.72-	0.77-	4.86-	10.1-
3	EGA Gregory					

Means followed by same letter do not significantly differ (P=0.05, LSD)

Impact of *Pratylenchus thornei* and Crown Rot on Winter Cereals - Bullarah 2016

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Location: Bullarah

Trial Year: 2016

Pest Scientific Name						<i>Pratylenchus thornei</i> Root-lesion Nematode
Pest Name		Wheat				
Crop Name		12/07/2016 EMERGENCE /m ²	15/08/2016 NDVI RATIO	16/10/2016 NDVI RATIO	30/11/2016 YIELD t/ha	21/04/2017 COUNT /g soil
Assessment Date		12	30	65	99	
Assessment Type		28 DP1	62 DP1	124 DP1	169 DP1	311DP1
Assessment Unit						
Crop Stage Majority						
Plant-Evaluation Interval						
CV %						
ARM Action Codes		ER1	ER1	ER1	ER1	ER1 AL
Trt No.	Treatment					
1	Low	72.1-	0.73-	0.76-	5.27-	1.0-
4	Sunguard					
2	High	77.5-	0.72-	0.77-	5.19-	11.7-
4	Sunguard					
1	Low	79.9-	0.79-	0.77-	5.52-	2.5-
5	Spitfire					
2	High	75.1-	0.73-	0.75-	5.15-	8.8-
5	Spitfire					
1	Low	74.1-	0.68-	0.74-	5.56-	1.3-
6	Sunmate					
2	High	74.7-	0.74-	0.75-	5.54-	4.2-
6	Sunmate					
1	Low	71.6-	0.69-	0.80-	5.04-	7.7-
7	Suntime					
2	High	77.6-	0.75-	0.81-	5.17-	3.7-
7	Suntime					
1	Low	72.7-	0.55-	0.80-	5.29-	2.1-
8	Gauntlet					
2	High	75.4-	0.57-	0.77-	5.35-	2.2-
8	Gauntlet					
1	Low	85.7-	0.76-	0.76-	5.33-	13.6-
9	Elmore CL					
2	High	78.3-	0.75-	0.76-	5.58-	22.0-
9	Elmore CL					
1	Low	62.9-	0.81-	0.74-	3.38-	0.8-
10	Commander					
2	High	68.1-	0.81-	0.75-	3.14-	3.0-
10	Commander					
1	Low	46.4-	0.52-	0.79-	4.16-	1.6-
11	Caparoi					
2	High	65.2-	0.66-	0.82-	4.14-	2.1-
11	Caparoi					
1	Low	71.0-	0.68-	0.79-	4.88-	1.1-
12	DBA Lillaro					
2	High	71.1-	0.73-	0.80-	5.21-	1.-
12	DBA Lillaro					
1	Low	68.9-	0.65-	0.77-	4.96-	2.0-
13	Viking					
2	High	69.9-	0.73-	0.80-	5.17-	1.8-
13	Viking					
1	Low	73.8-	0.73-	0.76-	4.84-	5.7-
14	Strzelecki					
2	High	75.4-	0.71-	0.74-	4.14*	19.9-
14	Strzelecki					

Impact of *Pratylenchus thornei* and Crown Rot on Winter Cereals - Bullarah 2016

Trial ID: DK1610

Location: Bullarah

Trial Year: 2016

Pest Scientific Name						<i>Pratylenchus thornei</i> Root-lesion Nematode
Pest Name		Wheat				
Crop Name		12/07/2016 EMERGENCE	15/08/2016 NDVI	16/10/2016 NDVI	30/11/2016 YIELD	21/04/2017 COUNT
Assessment Date		/m2	RATIO	RATIO	t/ha	/g Soil
Assessment Type		12	30	65	99	
Assessment Unit		28 DP1	62 DP1	124 DP1	169DP1	311DP1
Crop Stage Majority						
Plant-Evaluation Interval						
CV %						
ARM Action Codes		ER1	ER1	ER1	ER1	ER1 AL
Trt No.	Treatment					
TABLE OF B x C MEANS (Crown Rot x Variety)						
1	- CR	50.1-	0.63f-j	0.82-	5.36a-f	3.3-
1	Lancer					
2	+ CR	40.4-	0.44k	0.76-	4.20k	5.4-
1	Lancer					
1	- CR	70.6-	0.68d-g	0.81-	5.79a	2.5-
2	Suntop					
2	+ CR	66.5-	0.66e-h	0.82-	5.65ab	1.8-
2	Suntop					
1	- CR	77.7-	0.78abc	0.76-	5.24b-h	5.7-
3	EGA Gregory					
2	+ CR	57.2-	0.62g-j	0.74-	4.19k	10.5-
3	EGA Gregory					
1	- CR	72.8-	0.71b-g	0.76-	5.50a-e	6.4-
4	Sunguard					
2	+ CR	76.8-	0.74a-e	0.77-	4.96f-i	2.4-
4	Sunguard					
1	- CR	83.9-	0.78ab	0.76-	5.49a-e	5.8-
5	Spitfire					
2	+ CR	71.2-	0.74a-e	0.76-	5.18c-h	4.1-
5	Spitfire					
1	- CR	73.2-	0.70b-g	0.75-	5.61abc	2.9-
6	Sunmate					
2	+ CR	75.7-	0.72a-f	0.74-	5.50a-e	2.1-
6	Sunmate					
1	- CR	75.1-	0.72a-f	0.81-	5.30b-g	4.2-
7	Suntime					
2	+ CR	74.1-	0.72a-f	0.80-	4.92ghi	6.8-
7	Suntime					
1	- CR	77.6-	0.57hij	0.78-	5.50a-e	1.7-
8	Gauntlet					
2	+ CR	70.4-	0.55ij	0.79-	5.13e-h	2.6-
8	Gauntlet					
1	- CR	83.5-	0.75a-d	0.76-	5.58a-d	19.5-
9	Elmore CL					
2	+ CR	80.5-	0.76a-d	0.76-	5.32b-g	15.4-
9	Elmore CL					
1	- CR	70.7-	0.81a	0.75-	3.45l	1.5-
10	Commander					
2	+ CR	60.3-	0.81a	0.74-	3.06l	2.0-
10	Commander					

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Location: Bullarah

Trial Year: 2016

Pest Scientific Name						<i>Pratylenchus thornei</i> Root-lesion Nematode
Pest Name		Wheat				
Crop Name						
Assessment Date		12/07/2016	15/08/2016	16/10/2016	30/11/2016	21/04/2017
Assessment Type		EMERGENCE	NDVI	NDVI	YIELD	COUNT
Assessment Unit		/m2	RATIO	RATIO	t/ha	/g Soil
Crop Stage Majority		12	30	65	99	
Plant-Evaluation Interval		28 DP1	62 DP1	124 DP1	169DP1	311DP1
CV %					7.6	
ARM Action Codes		ER1	ER1	ER1	ER1	ER1 AL
Trt No.	Treatment					
1 11	- CR Caparoi	60.3-	0.64f-i	0.79-	4.04k	1.9-
2 11	+ CR Caparoi	51.3-	0.54j	0.81-	4.26jk	1.8-
1 12	- CR DBA Lillaroï	72.4-	0.70b-g	0.80-	5.17d-h	1.3-
2 12	+ CR DBA Lillaroï	69.7-	0.71b-g	0.79-	4.92ghi	1.0-
1 13	- CR Viking	72.5-	0.70b-g	0.79-	5.29b-g	2.4-
2 13	+ CR Viking	66.3-	0.69c-g	0.78-	4.84hi	1.5-
1 14	- CR Strzelecki	77.2-	0.75a-e	0.75-	4.68ij	9.4-
2 14	+ CR Strzelecki	72.0-	0.69d-g	0.75-	4.31jk	12.5-

NB: Nematode Population x Crown Rot x Variety interaction means analysed but not presented. No significant interaction for emergence, NDVI or yield.

Complex LSD's for Pt * Variety

*= significantly HIGHER yield in high Pt

*= significantly LOWER yield in high Pt

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Trial ID: DK1610

Location:

Bullarah

Trial Year:

2016

Pest Scientific Name		<i>Fusarium pseudograminearum</i>	
Pest Name		Crown Rot	
Crop Name		Cereals	
Description		Severity	Incidence
Part Assessed		Stubble	Crown
Assessment Type		CR SEVERITY	PRESENCE
Assessment Unit		Rating	%
Trt No.	Treatment		
TABLE OF A MEANS (Nematode Population)			
1	Low	21.1-	54.3-
2	High	23.8-	54.5-
TABLE OF B MEANS (Crown Rot)			
1	- CR	15.0b	33.4b
2	+ CR	29.9a	75.3a
TABLE OF C MEANS (Variety)			
1	Lancer	16.8g	46.6ef
2	Suntop	26.2bc	60.2abc
3	EGA Gregory	22.0def	57.0bcd
4	Sunguard	11.6h	40.6f
5	Spitfire	22.7cd	56.7bcd
6	Sunmate	27.4b	56.7bcd
7	Suntime	22.8cd	52.4de
8	Gauntlet	22.0def	53.3cde
9	Elmore CL	18.3fg	56.3bcd
10	Commander	22.6cde	52.7de
11	Caparoi	35.2a	65.8a
12	DBA Lillaro	28.0b	61.5ab
13	Viking	19.9d-g	49.7de
14	Strzelecki	18.9efg	51.8de
TABLE OF A x B MEANS (Nematode Population x Crown Rot)			
1	Low	15.1b	34.7-
1	- CR		
2	High	14.9b	32.1-
1	- CR		
1	Low	27.2a	73.8-
2	+ CR		
2	High	32.6a	76.8-
2	+ CR		
TABLE OF A x C MEANS (Nematode Population x Variety)			
1	Low	16.4-	48.5-
1	Lancer		
2	High	17.3-	44.7-
1	Lancer		
1	Low	25.4-	64.5-
2	Suntop		
2	High	27.0-	56.0-
2	Suntop		

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Trial Year:

2016

Pest Scientific Name		<i>Fusarium pseudograminearum</i>	
Pest Name		Crown Rot	
Crop Name		Cereals	
Description		Severity	Incidence
Part Assessed		Stubble	Crown
Assessment Type		CR SEVERITY	PRESENCE
Assessment Unit		Rating	%
Trt No.	Treatment		
1	Low	22.1-	58.0-
3	EGA Gregory		
2	High	22.0-	56.0-
3	EGA Gregory		
1	Low	10.5-	41.2-
4	Sunguard		
2	High	12.8-	40.0-
4	Sunguard		
1	Low	22.2-	58.0-
5	Spitfire		
2	High	23.3-	55.3-
5	Spitfire		
1	Low	27.6-	58.7-
6	Sunmate		
2	High	27.3-	54.7-
6	Sunmate		
1	Low	22.1-	50.9-
7	Suntime		
2	High	23.5-	53.8-
7	Suntime		
1	Low	20.6-	50.0-
8	Gauntlet		
2	High	23.3-	56.7-
8	Gauntlet		
1	Low	15.1-	57.3-
9	Elmore CL		
2	High	21.6-	55.3-
9	Elmore CL		
1	Low	18.6-	50.0-
10	Commander		
2	High	26.5-	55.3-
10	Commander		
1	Low	32.2-	64.2-
11	Caparoi		
2	High	38.1-	67.3-
11	Caparoi		
1	Low	28.1-	64.7-
12	DBA Lillaroi		
2	High	27.8-	58.4-
12	DBA Lillaroi		
1	Low	18.3-	44.0-
13	Viking		
2	High	21.4-	55.3-
13	Viking		
1	Low	17.1-	50.0-
14	Strzelecki		
2	High	20.8-	53.6-
14	Strzelecki		

Impact of *Pratylenus thornei* and Crown Rot on Winter Cereals - Bullarah 2016

Trial ID: DK1610

Location:

Bullarah

Trial Year:

2016

Pest Scientific Name Pest Name Crop Name Description Part Assessed Assessment Type Assessment Unit		<i>Fusarium pseudograminearum</i> Crown Rot Cereals	
		Severity Stubble CR SEVERITY Rating	Incidence Crown PRESENCE %
Trt No.	Treatment		
TABLE OF B X C MEANS (Crown Rot x Variety)			
1 1	- CR Lancer	9.9mn	25.8-
2 1	+ CR Lancer	23.8f-h	67.3-
1 2	- CR Suntop	19.0h-j	44.7-
2 2	+ CR Suntop	33.4bcd	75.8-
1 3	- CR EGA Gregory	16.8jk	39.3-
2 3	+ CR EGA Gregory	27.2efg	74.7-
1 4	- CR Sunguard	4.6n	15.9-
2 4	+ CR Sunguard	18.7h-j	65.3-
1 5	- CR Spitfire	17.0jk	36.7-
2 5	+ CR Spitfire	28.5def	76.7-
1 6	- CR Sunmate	19.2hij	36.7-
2 6	+ CR Sunmate	35.6bc	76.7-
1 7	- CR Suntime	14.9j-m	28.5-
2 7	+ CR Suntime	30.7cde	76.2-
1 8	- CR Gauntlet	15.6jkl	32.0-
2 8	+ CR Gauntlet	28.3def	74.7-
1 9	- CR Elmore CL	10.6lm	34.0-
2 9	+ CR Elmore CL	26.1efg	78.7-
1 10	- CR Commander	17.0jk	36.7-
2 10	+ CR Commander	28.2def	68.7-
1 11	- CR Caparoi	22.5ghi	40.2-
2 11	+ CR Caparoi	47.8a	91.3-
1 12	- CR DBA Lillaroi	18.4ij	40.7-
2 12	+ CR DBA Lillaroi	37.5b	82.4-

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Location:

Bullarah

Trial Year:

2016

Pest Scientific Name Pest Name Crop Name Description Part Assessed Assessment Type Assessment Unit		<i>Fusarium pseudograminearum</i> Crown Rot Cereals	
		Severity Stubble CR SEVERITY Rating	Incidence Crown PRESENCE %
Trt No.	Treatment		
1 13	- CR Viking	12.1klm	28.7-
2 13	+ CR Viking	27.7efg	70.7-
1 14	- CR Strzelecki	12.5klm	28.3-
2 14	+ CR Strzelecki	25.3fg	75.3-

COMPLETE SPLIT-PLOT AOV Wheat 12/07/2016 EMERGENCE /m ² 12 ER1						
Source	DF	Sum of Squares	Mean Square	F	P	LSD (0.05)
Total	167	50675				
R	2	4551	2275.49	1.98	0.3352	
A	1	745.5	745.53	0.65	0.5048	
ERROR A	2	2294.8	1147.42			
B	1	1558.7	1558.67	8.25	0.0049	4.2
C	13	13731	1056.23	5.59	0.0000	11.1
A*B	1	161.7	161.75	0.86	0.357	
A*C	13	3029.7	233.06	1.23	0.2663	
B*C	13	1564.6	120.35	0.64	0.8184	
A*B*C	13	2623.3	201.8	1.07	0.3948	
ERROR B	108	20414.5	189.02			

COMPLETE SPLIT-PLOT AOV Wheat 15/08/2016 NDVI RATIO 30 ER1						
Source	DF	Sum of Squares	Mean Square	F	P	LSD (0.05)
Total	167	2.32412				
R	2	0.12658	0.06329	2.16	0.3167	
A	1	0.04662	0.04662	1.59	0.3345	
ERROR A	2	0.05866	0.02933			
B	1	0.06697	0.06697	9.83	0.0022	0.03
C	13	0.94602	0.07277	10.68	0.0000	0.07
A*B	1	0.00009	0.00009	0.01	0.9101	
A*C	13	0.10423	0.00802	1.18	0.3061	
B*C	13	0.17839	0.01372	2.01	0.026	0.09
A*B*C	13	0.06077	0.00467	0.69	0.773	
ERROR B	108	0.73581	0.00681			

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COMPLETE SPLIT-PLOT AOV						
Wheat						
16/10/2016						
NDVI RATIO 65 ER1						
Source	DF	Sum of Squares	Mean Square	F	P	LSD (0.05)
Total	167	0.27141				
R	2	0.00127	0.00063	0.7	0.5898	
A	1	0.00165	0.00165	1.81	0.311	
ERROR A	2	0.00182	0.00091			
B	1	0.00113	0.00113	1.09	0.2978	
C	13	0.0894	0.00688	6.66	0.0000	0.03
A*B	1	0.00386	0.00386	3.74	0.0558	
A*C	13	0.02198	0.00169	1.64	0.0858	
B*C	13	0.01551	0.00119	1.16	0.3223	
A*B*C	13	0.02326	0.00179	1.73	0.0641	
ERROR B	108	0.11152	0.00103			

COMPLETE SPLIT-PLOT AOV						
Wheat						
30/11/2016						
YIELD t/ha ER1						
Source	DF	Sum of Squares	Mean Square	F	P	LSD (0.05)
Total	167	99.7396				
R	2	0.5632	0.28161	0.8	0.5546	
A	1	0.0113	0.01129	0.03	0.8741	
ERROR A	2	0.7013	0.35063			
B	1	6.6035	6.60351	46.92	0.0000	0.11
C	13	64.9854	4.99888	35.52	0.0000	0.30
A*B	1	0.0008	0.00076	0.01	0.9415	
A*C	13	4.5157	0.34736	2.47	0.0056	0.43/0.54
B*C	13	4.8062	0.36971	2.63	0.0032	0.43
A*B*C	13	2.3512	0.18086	1.28	0.233	
ERROR B	108	15.2011	0.14075			

COMPLETE SPLIT-PLOT AOV For						
<i>Pratylenchus thornei</i> - Root lesion nematode						
21/04/2017						
COUNT /g Soil AL						
Source	DF	Sum of Squares	Mean Square	F	P	LSD (0.05)
Total	162					
R	2	0.5067	0.25335	1.58	0.3883	
A	1	2.1125	2.11249	13.13	0.0684	
ERROR A	2	0.3217	0.16085			
B	1	0.0009	0.00095	0.01	0.9386	
C	13	11.2856	0.86812	5.46	0.0000	0.35
A*B	1	0.0562	0.05616	0.35	0.5538	
A*C	13	2.5601	0.19693	1.24	0.2641	
B*C	13	0.8904	0.06849	0.43	0.9552	
A*B*C	13	3.9012	0.30009	1.89	0.0401	
ERROR B	103	16.3894	0.15912			

Impact of *Pratylenicus thornei* and Crown Rot on Winter Cereals - Bullarah 2016

Trial ID: DK1610

Location:

Bullarah

Trial Year:

2016

COMPLETE SPLIT-PLOT AOV Crown Rot Severity %						
Source	DF	Sum of Squares	Mean Square	F	P	LSD (0.05)
Total	162					
R	2	264.95	132.48	1.5	0.4004	
A	1	271.82	271.82	3.07	0.2217	
ERROR A	2	176.91	88.46			
B	1	8914.59	8914.59	405.66	0	1.5
C	13	4625.62	355.82	16.19	0	4.1
A*B	1	307.55	307.55	14	0.0003	2.1/6.3
A*C	13	256.96	19.77	0.9	0.5561	
B*C	13	552.41	42.49	1.93	0.0344	5.9
A*B*C	13	339.94	26.15	1.19	0.2972	
ERROR B	103	2263.45	21.98			

COMPLETE SPLIT-PLOT AOV Crown Rot Incidence %						
Source	DF	Sum of Squares	Mean Square	F	P	LSD (0.05)
Total	162					
R	2	8.4	4.2	0.11	0.9005	
A	1	1.4	1.4	0.04	0.8661	
ERROR A	2	76.1	38.1			
B	1	70367.5	70367.5	814.25	0	2.9
C	13	5669.2	436.1	5.05	0	8.1
A*B	1	319	319	3.69	0.0575	
A*C	13	1148.2	88.3	1.02	0.4363	
B*C	13	1375.4	105.8	1.22	0.2731	
A*B*C	13	899.7	69.2	0.8	0.6579	
ERROR B	103	8901.3	86.4			

Assessment Type

NDVI = Normalized difference vegetation index

CR SEVERITY = % Basal browning x extent of browning

PRESENCE = % of crowns infected

Crop Stage Majority

12 = 2 leaves unfolded

30 = Beginning of stem elongation: pseudostem & tillers erect, 1st internode elong.

65 = Full flowering: 50% of anthers mature

99 = Harvested product

ARM Action Codes

ER1 = Excluded replicate 1

AL = Automatic log transformation of X+1

DP1 = Days after Planting