Gylling Data Management, Inc.

Seed Treatment with Inoculation demo

Trial ID: G-All7_SDTR_Inoc_002 Location: Anywhere, MO, USA Trial Year: 2014
Protocol ID: G-All7_SDTR_Inoc Investigator: Rebecca Standish
Project ID: G-All7_SDTR_Inoc Study Director: Debra Dooley
Sponsor Contact: ABC Industries, Inc.

Pest Type	D -
Pest Code	PHYTHB
Pest Scientific Name	Phytophthora hybrids
Pest Name	Phytophthora hybrids
Crop Code	ZEAMD
Crop Scientific Name	Zea mays indentata
Crop Name	Dent corn
Rating Type	DILOGR
Rating Unit	%
Number of Subsamples	1
Assessed By	EMJ

Trt No.	Type	Treatment Name	Form Conc	Form Unit	Form Type	Description	Supplier	Rate	Rate Unit	Appl Code	Crop ID Number	
TABLE OF Treatment MEANS												
1	CHK	Untreated Check				not treated						85.542 a
1	VAR	Seed Product 1						35000	seeds/a		1	
2	SDTR	STD Seed Treatment										22.708 b
2	VAR	Seed Product 1						35000	seeds/a		1	
2	INOC	Phytophthora infestans	10000	No/ML	AL	sporangia		3.5	bio en/row-ft			
3	SDTR	SDTR Chem 1	500	G/L	CF		A	1	mg ai/seed	A		17.875 c
3	SDTR	SDTR Chem 2	25	%	CF		A	0.5	mg ai/seed	A		
3	SDTR	SDTR Chem 3	3.5	LB/GAL	CF		A	0.007	mg ai/seed	A		
3	VAR	Seed Product 1						35000	seeds/a		1	
3	INOC	Phytophthora infestans	10000	No/ML	AL	oospore		3.5	bio en/row-ft			
4	SDTR	SDTR Chem 1	500	G/L	CF		A	2	mg ai/seed	A		20.125 bc
4	SDTR	SDTR Chem 2	25	%	CF		A	0.5	mg ai/seed	A		
4	SDTR	SDTR Chem 3	3.5	LB/GAL	CF		A	0.007	mg ai/seed	A		
4	VAR	Seed Product 1						35000	seeds/a		1	
4	INOC	Phytophthora infestans	10000	No/ML	AL	oospore		3.5	bio en/row-ft			
5	SDTR	SDTR Chem 1	500	G/L	CF		A	2.5	mg ai/seed	A		14.375 d
5	SDTR	SDTR Chem 2	25	%	CF		A	0.5	mg ai/seed	A		
5	SDTR	SDTR Chem 3	3.5	LB/GAL	CF		A	0.007	mg ai/seed	A		
5	VAR	Seed Product 1						35000	seeds/a		1	
5	INOC	Phytophthora infestans	10000	No/ML	AL	oospore		3.5	bio en/row-ft			
6	SDTR	SDTR Chem 1	500	G/L	CF		A	2.75	mg ai/seed	A		14.417 d
6	SDTR	SDTR Chem 2	25	%	CF		A	0.5	mg ai/seed	A		
6	SDTR	SDTR Chem 3	3.5	LB/GAL	CF		A	0.007	mg ai/seed	A		
6	VAR	Seed Product 1						35000	seeds/a		1	
6	INOC	Phytophthora infestans	10000	No/ML	AL	oospore		3.5	bio en/row-ft			
Tukey's HSD P=.05												3.0519
Standard Deviation												3.2540

TABLE OF Rating Date MEANS		
1	May-2-2014 (Data Col 5)	26.417 e
2	May-9-2014 (Data Col 6)	27.875 d
3	May-16-2014 (Data Col 7)	28.667 cd
4	May-23-2014 (Data Col 8)	29.417 c
5	May-30-2014 (Data Col 9)	30.792 b
6	Jun-6-2014 (Data Col 10)	31.875 a
Tukey's HSD P=.05		0.8451
Standard Deviation		1.0053

TABLE OF Treatment Rating Date MEANS												
1	CHK	Untreated Check				not treated						81.500 d
1	VAR	Seed Product 1						35000	seeds/a		1	
1		May-2-2014 (Data Col 5)										
2	SDTR	STD Seed Treatment										21.000 e-i
2	VAR	Seed Product 1						35000	seeds/a		1	
2	INOC	Phytophthora infestans	10000	No/ML	AL	sporangia		3.5	bio en/row-ft			
1		May-2-2014 (Data Col 5)										

Means followed by same letter or symbol do not significantly differ (P=.05, Tukey's HSD).
Selected Data columns: 5-10.

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Project ID: G-All7_SDTR_Inoc Study Director: Debra Dooley
Sponsor Contact: ABC Industries, Inc.

Pest Type	D -
Pest Code	PHYTHB
Pest Scientific Name	Phytophthora hybrids
Pest Name	Phytophthora hybrids
Crop Code	ZEAMD
Crop Scientific Name	Zea mays indentata
Crop Name	Dent corn
Rating Type	DILOGR
Rating Unit	%
Number of Subsamples	1
Assessed By	EMJ

Trt No.	Type	Treatment Name	Form Conc	Form Unit	Form Type	Description	Supplier	Rate	Rate Unit	Appl Code	Crop ID Number	
3	SDTR	SDTR Chem 1	500	G/L	CF		A	1	mg ai/seed	A		15.250 j-n
3	SDTR	SDTR Chem 2	25	%	CF		A	0.5	mg ai/seed	A		
3	SDTR	SDTR Chem 3	3.5	LB/GAL	CF		A	0.007	mg ai/seed	A		
3	VAR	Seed Product 1						35000	seeds/a		1	
3	INOC	Phytophthora infestans	10000	No/ML	AL	oospore		3.5	bio en/row-ft			
1		May-2-2014 (Data Col 5)										
4	SDTR	SDTR Chem 1	500	G/L	CF		A	2	mg ai/seed	A		16.750 i-m
4	SDTR	SDTR Chem 2	25	%	CF		A	0.5	mg ai/seed	A		
4	SDTR	SDTR Chem 3	3.5	LB/GAL	CF		A	0.007	mg ai/seed	A		
4	VAR	Seed Product 1						35000	seeds/a		1	
4	INOC	Phytophthora infestans	10000	No/ML	AL	oospore		3.5	bio en/row-ft			
1		May-2-2014 (Data Col 5)										
5	SDTR	SDTR Chem 1	500	G/L	CF		A	2.5	mg ai/seed	A		11.750 n
5	SDTR	SDTR Chem 2	25	%	CF		A	0.5	mg ai/seed	A		
5	SDTR	SDTR Chem 3	3.5	LB/GAL	CF		A	0.007	mg ai/seed	A		
5	VAR	Seed Product 1						35000	seeds/a		1	
5	INOC	Phytophthora infestans	10000	No/ML	AL	oospore		3.5	bio en/row-ft			
1		May-2-2014 (Data Col 5)										
6	SDTR	SDTR Chem 1	500	G/L	CF		A	2.75	mg ai/seed	A		12.250 mn
6	SDTR	SDTR Chem 2	25	%	CF		A	0.5	mg ai/seed	A		
6	SDTR	SDTR Chem 3	3.5	LB/GAL	CF		A	0.007	mg ai/seed	A		
6	VAR	Seed Product 1						35000	seeds/a		1	
6	INOC	Phytophthora infestans	10000	No/ML	AL	oospore		3.5	bio en/row-ft			
1		May-2-2014 (Data Col 5)										
1	CHK	Untreated Check				not treated						83.250 cd
1	VAR	Seed Product 1						35000	seeds/a		1	
2		May-9-2014 (Data Col 6)										
2	SDTR	STD Seed Treatment										22.000 e-h
2	VAR	Seed Product 1						35000	seeds/a		1	
2	INOC	Phytophthora infestans	10000	No/ML	AL	sporangia		3.5	bio en/row-ft			
2		May-9-2014 (Data Col 6)										
3	SDTR	SDTR Chem 1	500	G/L	CF		A	1	mg ai/seed	A		16.750 i-m
3	SDTR	SDTR Chem 2	25	%	CF		A	0.5	mg ai/seed	A		
3	SDTR	SDTR Chem 3	3.5	LB/GAL	CF		A	0.007	mg ai/seed	A		
3	VAR	Seed Product 1						35000	seeds/a		1	
3	INOC	Phytophthora infestans	10000	No/ML	AL	oospore		3.5	bio en/row-ft			
2		May-9-2014 (Data Col 6)										
4	SDTR	SDTR Chem 1	500	G/L	CF		A	2	mg ai/seed	A		18.250 g-k
4	SDTR	SDTR Chem 2	25	%	CF		A	0.5	mg ai/seed	A		
4	SDTR	SDTR Chem 3	3.5	LB/GAL	CF		A	0.007	mg ai/seed	A		
4	VAR	Seed Product 1						35000	seeds/a		1	
4	INOC	Phytophthora infestans	10000	No/ML	AL	oospore		3.5	bio en/row-ft			
2		May-9-2014 (Data Col 6)										
5	SDTR	SDTR Chem 1	500	G/L	CF		A	2.5	mg ai/seed	A		13.000 lmn
5	SDTR	SDTR Chem 2	25	%	CF		A	0.5	mg ai/seed	A		
5	SDTR	SDTR Chem 3	3.5	LB/GAL	CF		A	0.007	mg ai/seed	A		
5	VAR	Seed Product 1						35000	seeds/a		1	
5	INOC	Phytophthora infestans	10000	No/ML	AL	oospore		3.5	bio en/row-ft			
2		May-9-2014 (Data Col 6)										

Means followed by same letter or symbol do not significantly differ (P=.05, Tukey's HSD).
Selected Data columns: 5-10.

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Trial ID: G-All7_SDTR_Inoc_002 Location: Anywhere, MO, USA Trial Year: 2014
Protocol ID: G-All7_SDTR_Inoc Investigator: Rebecca Standish
Project ID: G-All7_SDTR_Inoc Study Director: Debra Dooley
Sponsor Contact: ABC Industries, Inc.

Pest Type	D -
Pest Code	PHYTHB
Pest Scientific Name	Phytophthora hybrids
Pest Name	Phytophthora hybrids
Crop Code	ZEAMD
Crop Scientific Name	Zea mays indentata
Crop Name	Dent corn
Rating Type	DILOGR
Rating Unit	%
Number of Subsamples	1
Assessed By	EMJ

Trt No.	Type	Treatment Name	Form Conc	Form Unit	Form Type	Description	Supplier	Rate	Rate Unit	Appl Code	Crop ID Number	
6	SDTR	SDTR Chem 1	500	G/L	CF		A	2.75	mg ai/seed	A		14.000 k-n
6	SDTR	SDTR Chem 2	25	%	CF		A	0.5	mg ai/seed	A		
6	SDTR	SDTR Chem 3	3.5	LB/GAL	CF		A	0.007	mg ai/seed	A		
6	VAR	Seed Product 1						35000	seeds/a		1	
6	INOC	Phytophthora infestans	10000	No/ML	AL	oospore		3.5	bio en/row-ft			
2		May-9-2014 (Data Col 6)										
1	CHK	Untreated Check				not treated						85.000 c
1	VAR	Seed Product 1						35000	seeds/a		1	
3		May-16-2014 (Data Col 7)										
2	SDTR	STD Seed Treatment										22.250 e-h
2	VAR	Seed Product 1						35000	seeds/a		1	
2	INOC	Phytophthora infestans	10000	No/ML	AL	sporangia		3.5	bio en/row-ft			
3		May-16-2014 (Data Col 7)										
3	SDTR	SDTR Chem 1	500	G/L	CF		A	1	mg ai/seed	A		17.250 i-l
3	SDTR	SDTR Chem 2	25	%	CF		A	0.5	mg ai/seed	A		
3	SDTR	SDTR Chem 3	3.5	LB/GAL	CF		A	0.007	mg ai/seed	A		
3	VAR	Seed Product 1						35000	seeds/a		1	
3	INOC	Phytophthora infestans	10000	No/ML	AL	oospore		3.5	bio en/row-ft			
3		May-16-2014 (Data Col 7)										
4	SDTR	SDTR Chem 1	500	G/L	CF		A	2	mg ai/seed	A		19.250 f-j
4	SDTR	SDTR Chem 2	25	%	CF		A	0.5	mg ai/seed	A		
4	SDTR	SDTR Chem 3	3.5	LB/GAL	CF		A	0.007	mg ai/seed	A		
4	VAR	Seed Product 1						35000	seeds/a		1	
4	INOC	Phytophthora infestans	10000	No/ML	AL	oospore		3.5	bio en/row-ft			
3		May-16-2014 (Data Col 7)										
5	SDTR	SDTR Chem 1	500	G/L	CF		A	2.5	mg ai/seed	A		13.750 k-n
5	SDTR	SDTR Chem 2	25	%	CF		A	0.5	mg ai/seed	A		
5	SDTR	SDTR Chem 3	3.5	LB/GAL	CF		A	0.007	mg ai/seed	A		
5	VAR	Seed Product 1						35000	seeds/a		1	
5	INOC	Phytophthora infestans	10000	No/ML	AL	oospore		3.5	bio en/row-ft			
3		May-16-2014 (Data Col 7)										
6	SDTR	SDTR Chem 1	500	G/L	CF		A	2.75	mg ai/seed	A		14.500 k-n
6	SDTR	SDTR Chem 2	25	%	CF		A	0.5	mg ai/seed	A		
6	SDTR	SDTR Chem 3	3.5	LB/GAL	CF		A	0.007	mg ai/seed	A		
6	VAR	Seed Product 1						35000	seeds/a		1	
6	INOC	Phytophthora infestans	10000	No/ML	AL	oospore		3.5	bio en/row-ft			
3		May-16-2014 (Data Col 7)										
1	CHK	Untreated Check				not treated						85.750 bc
1	VAR	Seed Product 1						35000	seeds/a		1	
4		May-23-2014 (Data Col 8)										
2	SDTR	STD Seed Treatment										22.750 efg
2	VAR	Seed Product 1						35000	seeds/a		1	
2	INOC	Phytophthora infestans	10000	No/ML	AL	sporangia		3.5	bio en/row-ft			
4		May-23-2014 (Data Col 8)										
3	SDTR	SDTR Chem 1	500	G/L	CF		A	1	mg ai/seed	A		18.000 h-k
3	SDTR	SDTR Chem 2	25	%	CF		A	0.5	mg ai/seed	A		
3	SDTR	SDTR Chem 3	3.5	LB/GAL	CF		A	0.007	mg ai/seed	A		
3	VAR	Seed Product 1						35000	seeds/a		1	
3	INOC	Phytophthora infestans	10000	No/ML	AL	oospore		3.5	bio en/row-ft			
4		May-23-2014 (Data Col 8)										

Means followed by same letter or symbol do not significantly differ (P=.05, Tukey's HSD).
Selected Data columns: 5-10.

Mean comparison letters are consistent until we get to three means of 22.750. ARM marks these means with efg, while SAS only marks ef. SAS marks only the mean 22.00 with efg. This inconsistency can be explained if we note that these values come from two different treatments. From the Descriptive Statistics table, we see that HSD for means from the same treatment is 2.822055, while means from two different treatments

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Protocol ID: G-All7_SDTR_Inoc Investigator: Rebecca Standish
Project ID: G-All7_SDTR_Inoc Study Director: Debra Dooley
Sponsor Contact: ABC Industries, Inc.

Pest Type	D -
Pest Code	PHYTHB
Pest Scientific Name	Phytophthora hybrids
Pest Name	Phytophthora hybrids
Crop Code	ZEAMD
Crop Scientific Name	Zea mays indentata
Crop Name	Dent corn
Rating Type	DILOGR
Rating Unit	%
Number of Subsamples	1
Assessed By	EMJ

Trt No.	Type	Treatment Name	Form Conc	Form Unit	Form Type	Description	Supplier	Rate	Rate Unit	Appl Code	Crop ID Number	
4	SDTR	SDTR Chem 1	500	G/L	CF		A	2	mg ai/seed	A		21.000 e-i
4	SDTR	SDTR Chem 2	25	%	CF		A	0.5	mg ai/seed	A		
4	SDTR	SDTR Chem 3	3.5	LB/GAL	CF		A	0.007	mg ai/seed	A		
4	VAR	Seed Product 1						35000	seeds/a		1	
4	INOC	Phytophthora infestans	10000	No/ML	AL	oospore		3.5	bio en/row-ft			
4		May-23-2014 (Data Col 8)										
5	SDTR	SDTR Chem 1	500	G/L	CF		A	2.5	mg ai/seed	A		14.000 k-n
5	SDTR	SDTR Chem 2	25	%	CF		A	0.5	mg ai/seed	A		
5	SDTR	SDTR Chem 3	3.5	LB/GAL	CF		A	0.007	mg ai/seed	A		
5	VAR	Seed Product 1						35000	seeds/a		1	
5	INOC	Phytophthora infestans	10000	No/ML	AL	oospore		3.5	bio en/row-ft			
4		May-23-2014 (Data Col 8)										
6	SDTR	SDTR Chem 1	500	G/L	CF		A	2.75	mg ai/seed	A		15.000 j-n
6	SDTR	SDTR Chem 2	25	%	CF		A	0.5	mg ai/seed	A		
6	SDTR	SDTR Chem 3	3.5	LB/GAL	CF		A	0.007	mg ai/seed	A		
6	VAR	Seed Product 1						35000	seeds/a		1	
6	INOC	Phytophthora infestans	10000	No/ML	AL	oospore		3.5	bio en/row-ft			
4		May-23-2014 (Data Col 8)										
1	CHK	Untreated Check				not treated						88.250 ab
1	VAR	Seed Product 1						35000	seeds/a		1	
5		May-30-2014 (Data Col 9)										
2	SDTR	STD Seed Treatment										23.500 ef
2	VAR	Seed Product 1						35000	seeds/a		1	
2	INOC	Phytophthora infestans	10000	No/ML	AL	sporangia		3.5	bio en/row-ft			
5		May-30-2014 (Data Col 9)										
3	SDTR	SDTR Chem 1	500	G/L	CF		A	1	mg ai/seed	A		19.250 f-j
3	SDTR	SDTR Chem 2	25	%	CF		A	0.5	mg ai/seed	A		
3	SDTR	SDTR Chem 3	3.5	LB/GAL	CF		A	0.007	mg ai/seed	A		
3	VAR	Seed Product 1						35000	seeds/a		1	
3	INOC	Phytophthora infestans	10000	No/ML	AL	oospore		3.5	bio en/row-ft			
5		May-30-2014 (Data Col 9)										
4	SDTR	SDTR Chem 1	500	G/L	CF		A	2	mg ai/seed	A		22.750 efg
4	SDTR	SDTR Chem 2	25	%	CF		A	0.5	mg ai/seed	A		
4	SDTR	SDTR Chem 3	3.5	LB/GAL	CF		A	0.007	mg ai/seed	A		
4	VAR	Seed Product 1						35000	seeds/a		1	
4	INOC	Phytophthora infestans	10000	No/ML	AL	oospore		3.5	bio en/row-ft			
5		May-30-2014 (Data Col 9)										
5	SDTR	SDTR Chem 1	500	G/L	CF		A	2.5	mg ai/seed	A		16.000 j-m
5	SDTR	SDTR Chem 2	25	%	CF		A	0.5	mg ai/seed	A		
5	SDTR	SDTR Chem 3	3.5	LB/GAL	CF		A	0.007	mg ai/seed	A		
5	VAR	Seed Product 1						35000	seeds/a		1	
5	INOC	Phytophthora infestans	10000	No/ML	AL	oospore		3.5	bio en/row-ft			
5		May-30-2014 (Data Col 9)										
6	SDTR	SDTR Chem 1	500	G/L	CF		A	2.75	mg ai/seed	A		15.000 j-n
6	SDTR	SDTR Chem 2	25	%	CF		A	0.5	mg ai/seed	A		
6	SDTR	SDTR Chem 3	3.5	LB/GAL	CF		A	0.007	mg ai/seed	A		
6	VAR	Seed Product 1						35000	seeds/a		1	
6	INOC	Phytophthora infestans	10000	No/ML	AL	oospore		3.5	bio en/row-ft			
5		May-30-2014 (Data Col 9)										
1	CHK	Untreated Check				not treated						89.500 a
1	VAR	Seed Product 1						35000	seeds/a		1	
6		Jun-6-2014 (Data Col 10)										

Means followed by same letter or symbol do not significantly differ (P=.05, Tukey's HSD).
Selected Data columns: 5-10.

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Project ID: G-All7_SDTR_Inoc Study Director: Debra Dooley
Sponsor Contact: ABC Industries, Inc.

Pest Type	D -
Pest Code	PHYTHB
Pest Scientific Name	Phytophthora hybrids
Pest Name	Phytophthora hybrids
Crop Code	ZEAMD
Crop Scientific Name	Zea mays indentata
Crop Name	Dent corn
Rating Type	DILOGR
Rating Unit	%
Number of Subsamples	1
Assessed By	EMJ

Trt No.	Type	Treatment Name	Form Conc	Form Unit	Form Type	Description	Supplier	Rate	Rate Unit	Appl Code	Crop ID Number	
2	SDTR	STD Seed Treatment										24.750 e
2	VAR	Seed Product 1						35000	seeds/a		1	
2	INOC	Phytophthora infestans	10000	No/ML	AL	sporangia		3.5	bio en/row-ft			
6		Jun-6-2014 (Data Col 10)										
3	SDTR	SDTR Chem 1	500	G/L	CF		A	1	mg ai/seed	A		20.750 e-i
3	SDTR	SDTR Chem 2	25	%	CF		A	0.5	mg ai/seed	A		
3	SDTR	SDTR Chem 3	3.5	LB/GAL	CF		A	0.007	mg ai/seed	A		
3	VAR	Seed Product 1						35000	seeds/a		1	
3	INOC	Phytophthora infestans	10000	No/ML	AL	oospore		3.5	bio en/row-ft			
6		Jun-6-2014 (Data Col 10)										
4	SDTR	SDTR Chem 1	500	G/L	CF		A	2	mg ai/seed	A		22.750 efg
4	SDTR	SDTR Chem 2	25	%	CF		A	0.5	mg ai/seed	A		
4	SDTR	SDTR Chem 3	3.5	LB/GAL	CF		A	0.007	mg ai/seed	A		
4	VAR	Seed Product 1						35000	seeds/a		1	
4	INOC	Phytophthora infestans	10000	No/ML	AL	oospore		3.5	bio en/row-ft			
6		Jun-6-2014 (Data Col 10)										
5	SDTR	SDTR Chem 1	500	G/L	CF		A	2.5	mg ai/seed	A		17.750 h-k
5	SDTR	SDTR Chem 2	25	%	CF		A	0.5	mg ai/seed	A		
5	SDTR	SDTR Chem 3	3.5	LB/GAL	CF		A	0.007	mg ai/seed	A		
5	VAR	Seed Product 1						35000	seeds/a		1	
5	INOC	Phytophthora infestans	10000	No/ML	AL	oospore		3.5	bio en/row-ft			
6		Jun-6-2014 (Data Col 10)										
6	SDTR	SDTR Chem 1	500	G/L	CF		A	2.75	mg ai/seed	A		15.750 j-n
6	SDTR	SDTR Chem 2	25	%	CF		A	0.5	mg ai/seed	A		
6	SDTR	SDTR Chem 3	3.5	LB/GAL	CF		A	0.007	mg ai/seed	A		
6	VAR	Seed Product 1						35000	seeds/a		1	
6	INOC	Phytophthora infestans	10000	No/ML	AL	oospore		3.5	bio en/row-ft			
6		Jun-6-2014 (Data Col 10)										
Tukey's HSD P=.05												2.8221
Standard Deviation												1.0053

REPEATED MEASURES AOV For D PHYTHB Phytophthora hybrids Phytophthora hybrids ZEAMD Zea mays indentata Dent corn DILOGR % 1 EMJ

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	HSD (.05)
Total	143	93578.659722				
Replicate	3	25.965278	8.655093	0.817	0.5041	
Treatment	5	92771.034722	18554.206944	1752.310	0.0001	3.0519
Treatment Error	15	158.826389	10.588426			
Rating Date	5	468.451389	93.690278	92.703	0.0001	0.8451
Treatment x Rating Date	25	63.423611	2.536944	2.510	0.0008	2.8221
Error/Residual	90	90.958333	1.010648			

The AOV on p. 2 of the SAS output is the default decomposition. We don't find the tests using Treatment Error until p. 21

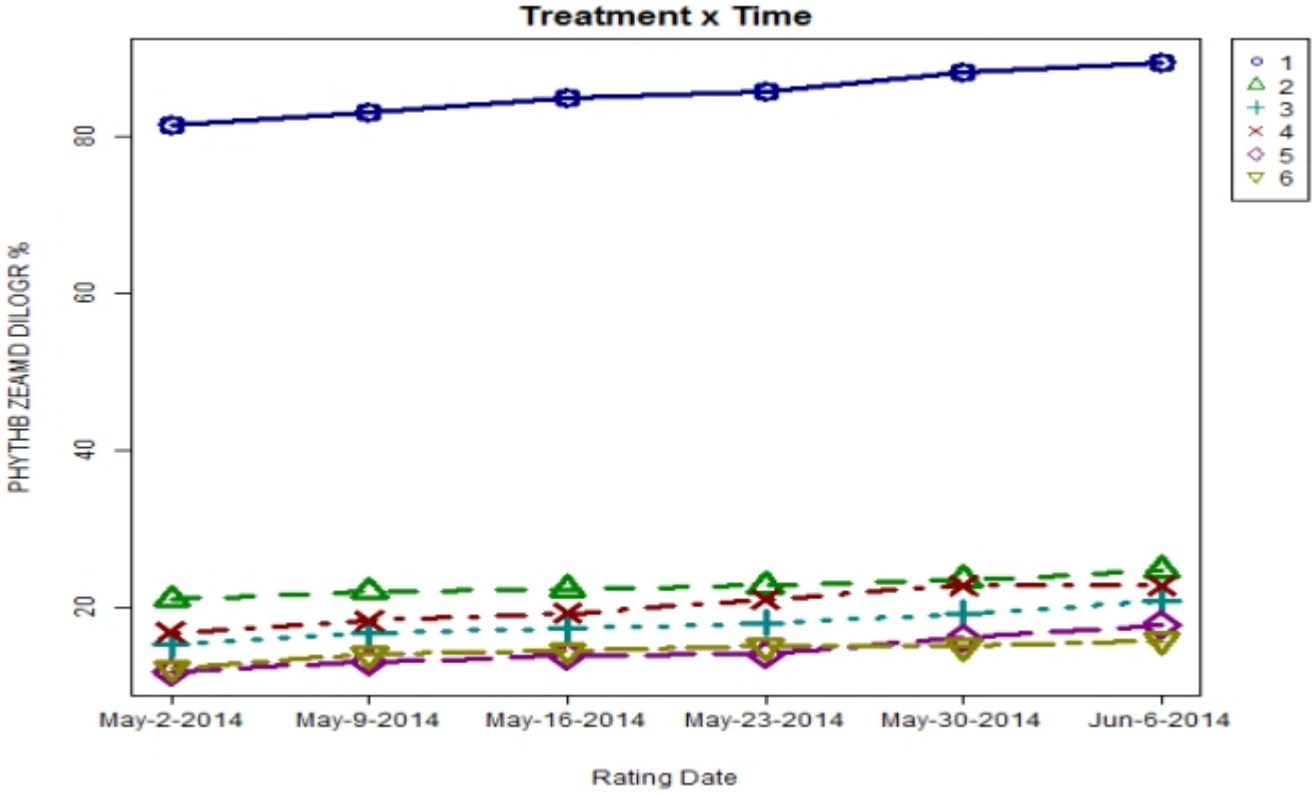
Crop Code
ZEAMD, , Zea mays indentata, Dent corn = US
Rating Type
DILOGR = disease loci - growth
Rating Unit
% = percent

Means followed by same letter or symbol do not significantly differ (P=.05, Tukey's HSD).
Selected Data columns: 5-10.

Gylling Data Management, Inc.

Seed Treatment with Inoculation demo

Trial ID: G-All7_SDTR_Inoc_002 Location: Anywhere, MO, USA Trial Year: 2014
Protocol ID: G-All7_SDTR_Inoc Investigator: Rebecca Standish
Project ID: G-All7_SDTR_Inoc Study Director: Debra Dooley
Sponsor Contact: ABC Industries, Inc.



Treatment Description:

1	
2	
3	
4	
5	
6	

Means followed by same letter or symbol do not significantly differ (P=.05, Tukey's HSD).
Selected Data columns: 5-10.

Gylling Data Management, Inc.

Seed Treatment with Inoculation demo

Trial ID: G-All7_SDTR_Inoc_002 Location: Anywhere, MO, USA Trial Year: 2014
Protocol ID: G-All7_SDTR_Inoc Investigator: Rebecca Standish
Project ID: G-All7_SDTR_Inoc Study Director: Debra Dooley
Sponsor Contact: ABC Industries, Inc.

Rating Date Data Column	May-2-2014 5	May-9-2014 6	May-16-2014 7	May-23-2014 8	May-30-2014 9	Jun-6-2014 10
Residual Covariance 10	0.7278	1.1361	1.2556	1.4333	2.0194	2.3750
Estimated Covariance	1.5963	1.5963	1.5963	1.5963	1.5963	2.6069
Residual Correlation	0.3160	0.5516	0.5119	0.5011	0.7168	1.0000
Estimated Correlation	0.6123	0.6123	0.6123	0.6123	0.6123	1.0000
Residual Covariance 9	1.2278	1.7583	2.1556	2.7667	3.3417	
Estimated Covariance	1.5963	1.5963	1.5963	1.5963	2.6069	
Residual Correlation	0.4494	0.7197	0.7409	0.8155	1.0000	
Estimated Correlation	0.6123	0.6123	0.6123	0.6123	1.0000	
Residual Covariance 8	1.0222	1.5222	2.2389	3.4444		
Estimated Covariance	1.5963	1.5963	1.5963	2.6069		
Residual Correlation	0.3686	0.6137	0.7579	1.0000		
Estimated Correlation	0.6123	0.6123	0.6123	1.0000		
Residual Covariance 7	1.5056	1.7667	2.5333			
Estimated Covariance	1.5963	1.5963	2.6069			
Residual Correlation	0.6330	0.8305	1.0000			
Estimated Correlation	0.6123	0.6123	1.0000			
Residual Covariance 6	1.3722	1.7861				
Estimated Covariance	1.5963	2.6069				
Residual Correlation	0.6871	1.0000				
Estimated Correlation	0.6123	1.0000				
Residual Covariance 5	2.2333					
Estimated Covariance	2.6069					
Residual Correlation	1.0000					
Estimated Correlation	1.0000					

Estimated Correlation is comparable to the tables in SAS results, starting on p.32. We don't expect these values to match since we have a negative estimate for replicate variance from the linear AOV.

Compare Residual Correlation in this table to the partial correlation coefficients on SAS results, p. 97

Pest Type
D, Disease, G-BYRD7, G-DisStg = Disease, such as a fungus, bacteria, or virus
Pest Code
PHYTHB, Phytophthora hybrids, Phytophthora hybrids = US
Crop Code
ZEAMD, BCOR, Zea mays indentata, Dent corn = US
Rating Type
DILOGR = disease loci - growth
Rating Unit
% = percent