

Gylling Data Management, Inc.

Trial ID: G-AII7_SDTR_Inoc_002 Missing Rep Protocol ID: G-AII7_SDTR_Inoc Project ID: G-AII7_SDTR_Inoc	Seed Treatment with Inoculation demo Location: Anywhere, MO, USA Trial Year: 2014 Investigator: Rebecca Standish Study Director: Debra Dooley Sponsor Contact: ABC Industries, Inc.
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Pest Type Pest Code Pest Scientific Name Pest Name Crop Code Crop Scientific Name Crop Name Rating Type Rating Unit Number of Subsamples Assessed By	D - PHYTHB Phytophthora hybrids Phytophthora hybrids ZEAMD Zea mays indentata Dent corn DILOGR % 1 EMJ																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Trt No.</th> <th>Treatment Name</th> <th>Form Conc</th> <th>Form Unit</th> <th>Form Type</th> <th>Description</th> <th>Supplier</th> <th>Rate</th> <th>Rate Unit</th> <th>Appl Code</th> <th>Crop ID Number</th> </tr> </thead> <tbody> <tr> <td colspan="11">TABLE OF Treatment MEANS</td> </tr> <tr> <td>1</td> <td>CHK Untreated Check</td> <td></td> <td></td> <td></td> <td>not treated</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1</td> <td>VAR Seed Product 1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>35000 seeds/a</td> <td></td> <td></td> <td>1</td> </tr> <tr> <td>2</td> <td>SDTR STD Seed Treatment</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>VAR Seed Product 1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>35000 seeds/a</td> <td></td> <td></td> <td>1</td> </tr> <tr> <td>2</td> 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Means followed by same letter or symbol do not significantly differ (P=.05, Tukey's HSD).
 Means and standard errors for mean separation are based on MINQUE estimated variances due to missing assessments.
 Selected Data columns: 5-10.

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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			11.667 mn
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			11.333 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				
1	May-2-2014 (Data Col 5)										
1	CHK Untreated Check				not treated						83.000 cd
1	VAR Seed Product 1						35000 seeds/a			1	
2	May-9-2014 (Data Col 6)										
2	SDTR STD Seed Treatment										21.667 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				
2	May-9-2014 (Data Col 6)										
3	SDTR SDTR Chem 1	500	G/L	CF		A	1 mg ai/seed	A			16.333 h-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				
2	May-9-2014 (Data Col 6)										
4	SDTR SDTR Chem 1	500	G/L	CF		A	2 mg ai/seed	A			18.000 f-l
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)										

Means followed by same letter or symbol do not significantly differ (P=.05, Tukey's HSD).
 Means and standard errors for mean separation are based on MINQUE estimated variances due to missing assessments.
 Selected Data columns: 5-10.

Gylling Data Management, Inc.

Trial ID: G-AII7_SDTR_Inoc_002 Missing Rep Protocol ID: G-AII7_SDTR_Inoc Project ID: G-AII7_SDTR_Inoc	<b style="text-align: center;">Seed Treatment with Inoculation demo Location: Anywhere, MO, USA Trial Year: 2014 Investigator: Rebecca Standish Study Director: Debra Dooley Sponsor Contact: ABC Industries, Inc.
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Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Description	Supplier	Rate	Rate Unit	Appl Code	Crop ID	
Pest Type Pest Code Pest Scientific Name Pest Name Crop Code Crop Scientific Name Crop Name Rating Type Rating Unit Number of Subsamples Assessed By											D - PHYTHB Phytophthora hybrids Phytophthora hybrids ZEAMD Zea mays indentata Dent corn DILOGR % 1 EMJ
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)										
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						84.667 bcd
1	VAR Seed Product 1						35000	seeds/a		1	
3	May-16-2014 (Data Col 7)										
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			
3	May-16-2014 (Data Col 7)										
3	SDTR SDTR Chem 1	500	G/L	CF		A	1	mg ai/seed	A		17.000 g-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			
3	May-16-2014 (Data Col 7)										
4	SDTR SDTR Chem 1	500	G/L	CF		A	2	mg ai/seed	A		19.333 e-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			
3	May-16-2014 (Data Col 7)										
5	SDTR SDTR Chem 1	500	G/L	CF		A	2.5	mg ai/seed	A		13.667 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		14.333 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						86.000 abc
1	VAR Seed Product 1						35000	seeds/a		1	
4	May-23-2014 (Data Col 8)										
2	SDTR STD Seed Treatment										22.667 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)										

Means followed by same letter or symbol do not significantly differ (P=.05, Tukey's HSD).
 Means and standard errors for mean separation are based on MINQUE estimated variances due to missing assessments.
 Selected Data columns: 5-10.

Gylling Data Management, Inc.

Trial ID: G-AII7_SDTR_Inoc_002 Missing Rep Protocol ID: G-AII7_SDTR_Inoc Project ID: G-AII7_SDTR_Inoc	<b style="text-align: center;">Seed Treatment with Inoculation demo Location: Anywhere, MO, USA Trial Year: 2014 Investigator: Rebecca Standish Study Director: Debra Dooley Sponsor Contact: ABC Industries, Inc.
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Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Description	Supplier	Rate	Rate Unit	Appl Code	Crop ID	
Pest Type Pest Code Pest Scientific Name Pest Name Crop Code Crop Scientific Name Crop Name Rating Type Rating Unit Number of Subsamples Assessed By											D - PHYTHB Phytophthora hybrids Phytophthora hybrids ZEAMD Zea mays indentata Dent corn DILOGR % 1 EMJ
3	SDTR SDTR Chem 1	500	G/L	CF		A	1 mg ai/seed	A			17.667 f-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				
3	INOC Phytophthora infestans	10000	No/ML	AL	oospore		3.5 bio en/row-ft				
4	May-23-2014 (Data Col 8)										
4	SDTR SDTR Chem 1	500	G/L	CF		A	2 mg ai/seed	A			21.333 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				
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			13.667 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				
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				
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						88.000 ab
1	VAR Seed Product 1						35000 seeds/a				
5	May-30-2014 (Data Col 9)										
2	SDTR STD Seed Treatment										23.333 ef
2	VAR Seed Product 1						35000 seeds/a				
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			19.000 e-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				
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			23.000 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				
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 h-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				
5	INOC Phytophthora infestans	10000	No/ML	AL	oospore		3.5 bio en/row-ft				
5	May-30-2014 (Data Col 9)										

Means followed by same letter or symbol do not significantly differ (P=.05, Tukey's HSD).
 Means and standard errors for mean separation are based on MINQUE estimated variances due to missing assessments.
 Selected Data columns: 5-10.

Gylling Data Management, Inc.

Trial ID: G-AII7_SDTR_Inoc_002 Missing Rep Protocol ID: G-AII7_SDTR_Inoc Project ID: G-AII7_SDTR_Inoc	<b style="text-align: center;">Seed Treatment with Inoculation demo Location: Anywhere, MO, USA Trial Year: 2014 Investigator: Rebecca Standish Study Director: Debra Dooley Sponsor Contact: ABC Industries, Inc.
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Trt No. Type	Treatment Name	Form Conc	Form Unit	Form Type	Description	Supplier	Rate	Rate Unit	Appl Code	Crop ID Number	
Pest Type Pest Code Pest Scientific Name Pest Name Crop Code Crop Scientific Name Crop Name Rating Type Rating Unit Number of Subsamples Assessed By											D - PHYTHB Phytophthora hybrids Phytophthora hybrids ZEAMD Zea mays indentata Dent corn DILOGR % 1 EMJ
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			
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						89.000 a
1	VAR Seed Product 1						35000	seeds/a			
6	Jun-6-2014 (Data Col 10)										
2	SDTR STD Seed Treatment										25.000 e
2	VAR Seed Product 1						35000	seeds/a			
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		20.667 e-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			
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		22.667 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			
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		17.333 f-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			
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		15.667 i-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			
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 Standard Deviation											3.5284 1.0707

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)	Variance				
Total	107	70156.990741									
Replicate	2	14.296296	7.148148	0.457	0.6455		-0.235494				
Treatment	5	69488.268519	13897.653704	889.397	0.0001	4.5766					
Treatment Error	10	156.259259	15.625926				2.413272				
Rating Date	5	382.046296	76.409259	66.658	0.0001	1.0506					
Treatment x Rating Date	25	47.342593	1.893704	1.652	0.0578	3.5284					
Error/Residual	60	68.777778	1.146296				1.146296				

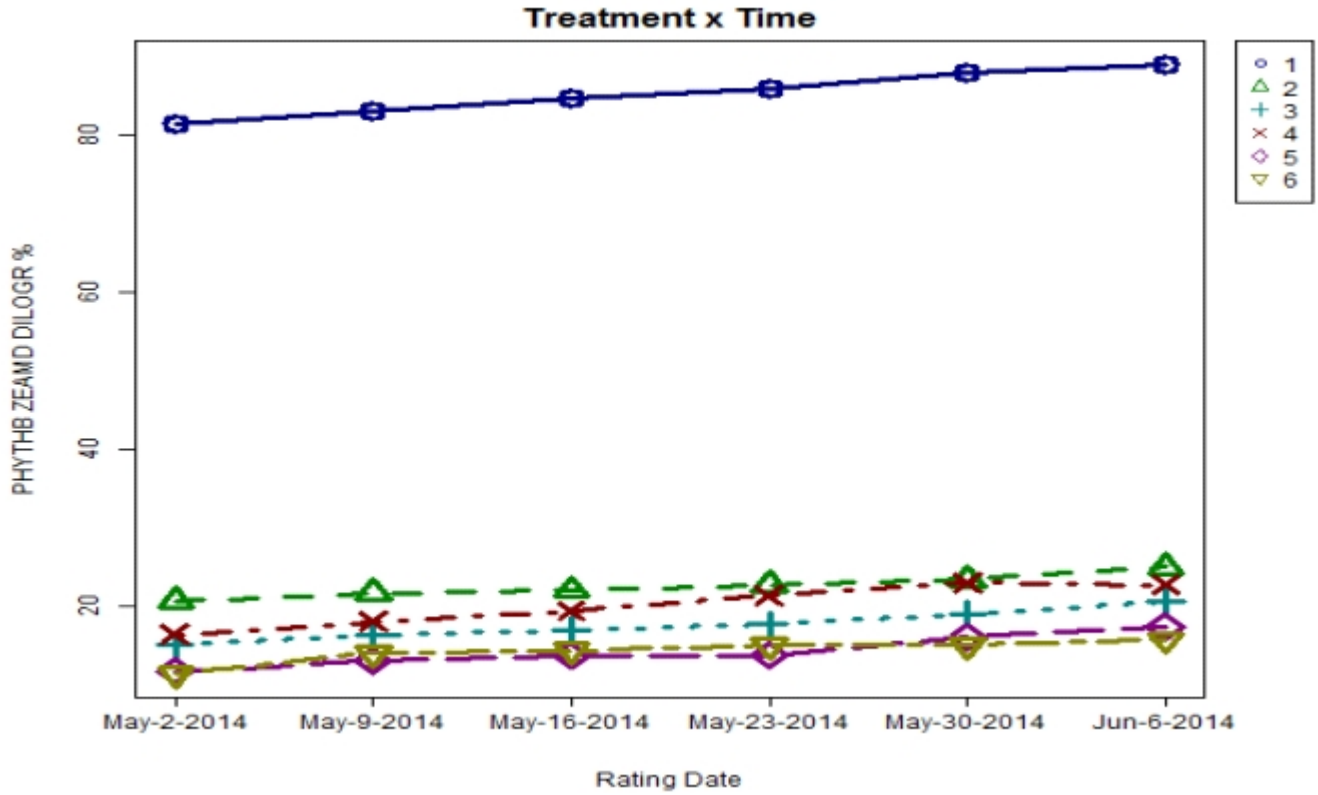
Crop Code
 ZEAMD, Zea mays indentata, Dent corn = US
Rating Type

Means followed by same letter or symbol do not significantly differ (P=.05, Tukey's HSD).
 Means and standard errors for mean separation are based on MINQUE estimated variances due to missing assessments.
 Selected Data columns: 5-10.

Gylling Data Management, Inc.

Trial ID: G-AII7_SDTR_Inoc_002 Missing Rep	Location: Anywhere, MO, USA	Trial Year: 2014
Protocol ID: G-AII7_SDTR_Inoc	Investigator: Rebecca Standish	
Project ID: G-AII7_SDTR_Inoc	Study Director: Debra Dooley	
Sponsor Contact: ABC Industries, Inc.		

DILOGR = disease loci - growth
 Rating Unit
 % = percent



Treatment Description:

1
2
3
4
5
6

Means followed by same letter or symbol do not significantly differ (P=.05, Tukey's HSD).
 Means and standard errors for mean separation are based on MINQUE estimated variances due to missing assessments.
 Selected Data columns: 5-10.

Gylling Data Management, Inc.

Trial ID: G-AII7_SDTR_Inoc_002 Missing Rep Protocol ID: G-AII7_SDTR_Inoc Project ID: G-AII7_SDTR_Inoc	<b style="text-align: center;">Seed Treatment with Inoculation demo Location: Anywhere, MO, USA Trial Year: 2014 Investigator: Rebecca Standish Study Director: Debra Dooley Sponsor Contact: ABC Industries, Inc.
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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	1.2889	1.8167	1.8667	2.1889	3.0056	3.1222
Estimated Covariance	2.4133	2.4133	2.4133	2.4133	2.4133	3.5596
Residual Correlation	0.4342	0.6502	0.5517	0.5721	0.7773	1.0000
Estimated Correlation	0.6780	0.6780	0.6780	0.6780	0.6780	1.0000
Residual Covariance 9	1.9556	2.5500	3.0667	4.0222	4.7889	
Estimated Covariance	2.4133	2.4133	2.4133	2.4133	3.5596	
Residual Correlation	0.5319	0.7370	0.7318	0.8488	1.0000	
Estimated Correlation	0.6780	0.6780	0.6780	0.6780	1.0000	
Residual Covariance 8	1.6556	2.3000	3.3000	4.6889		
Estimated Covariance	2.4133	2.4133	2.4133	3.5596		
Residual Correlation	0.4551	0.6718	0.7959	1.0000		
Estimated Correlation	0.6780	0.6780	0.6780	1.0000		
Residual Covariance 7	2.3000	2.6000	3.6667			
Estimated Covariance	2.4133	2.4133	3.5596			
Residual Correlation	0.7150	0.8588	1.0000			
Estimated Correlation	0.6780	0.6780	1.0000			
Residual Covariance 6	2.1667	2.5000				
Estimated Covariance	2.4133	3.5596				
Residual Correlation	0.8157	1.0000				
Estimated Correlation	0.6780	1.0000				
Residual Covariance 5	2.8222					
Estimated Covariance	3.5596					
Residual Correlation	1.0000					
Estimated Correlation	1.0000					

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