

Gylling Data Management, Inc.

Trial ID: G-AII7_SDTR_Inoc_002 Missing Cells 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</td> <td colspan="2"></td> <td></td> <td>Untreated Check</td> <td></td> <td>not treated</td> <td></td> <td></td> <td></td> </tr> <tr> <td>1</td> <td>VAR</td> <td colspan="2"></td> <td></td> <td>Seed Product 1</td> <td></td> <td>35000 seeds/a</td> <td></td> <td></td> <td>1</td> </tr> <tr> <td>2</td> <td>SDTR</td> <td colspan="2"></td> <td></td> <td>STD Seed Treatment</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>VAR</td> <td colspan="2"></td> <td></td> <td>Seed Product 1</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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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						.
1	VAR Seed Product 1						35000 seeds/a			1	
2	May-9-2014 (Data Col 6)										
2	SDTR STD Seed Treatment										
2	VAR Seed Product 1						35000 seeds/a			1	22.000 e-h
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)										

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 Cells	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.		

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Description	Supplier	Rate	Rate Unit	Appl Code	Crop ID	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			
5	INOC Phytophthora infestans May-9-2014 (Data Col 6)	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		14.000 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			
6	INOC Phytophthora infestans May-9-2014 (Data Col 6)	10000	No/ML	AL	oospore		3.5	bio en/row-ft			
1	CHK Untreated Check				not treated						85.000 c
1	VAR Seed Product 1						35000	seeds/a			
3	May-16-2014 (Data Col 7)										
2	SDTR STD Seed Treatment										22.250 e-h
2	VAR Seed Product 1						35000	seeds/a			
2	INOC Phytophthora infestans May-16-2014 (Data Col 7)	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		17.250 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			
3	INOC Phytophthora infestans May-16-2014 (Data Col 7)	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		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			
4	INOC Phytophthora infestans May-16-2014 (Data Col 7)	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		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			
5	INOC Phytophthora infestans May-16-2014 (Data Col 7)	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		14.500 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			
6	INOC Phytophthora infestans May-16-2014 (Data Col 7)	10000	No/ML	AL	oospore		3.5	bio en/row-ft			
1	CHK Untreated Check				not treated						85.750 bc
1	VAR Seed Product 1						35000	seeds/a			
4	May-23-2014 (Data Col 8)										
2	SDTR STD Seed Treatment										22.750 efg
2	VAR Seed Product 1						35000	seeds/a			
2	INOC Phytophthora infestans May-23-2014 (Data Col 8)	10000	No/ML	AL	sporangia		3.5	bio en/row-ft			

22.75 is where means for two treatments are identical, and where we diverge from SAS letters.

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 Cells 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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Trt No.	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
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				
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			21.000 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				
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				
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						88.250 ab
1	VAR Seed Product 1						35000 seeds/a				
5	May-30-2014 (Data Col 9)										
2	SDTR STD Seed Treatment										23.500 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			19.250 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				
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				
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				
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 Cells 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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Trt	Treatment	Form	Form	Form	Description	Supplier	Rate	Rate	Appl	Crop ID	
No. Type	Name	Conc	Unit	Type			Unit	Unit	Code	Number	
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)										
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											2.8597
Standard Deviation											1.0175

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	139	81538.685714									
Replicate	3	22.285714	7.428571	0.721	0.5551		-0.062561	Replicate SS is Type I, not Type III as reported on p. 22			
Treatment	5	78058.040000	15611.608000	1514.243	0.0001	3.0508					
Treatment Error	15	154.647619	10.309841				1.590916	ARM is reporting Type I SS for rating date			
Rating Date	5	3155.902381	631.180476	609.690	0.0001	0.8560					
Treatment x Rating Date	24	57.743333	2.405972	2.324	0.0024	2.8597					
Error/Residual	87	90.066667	1.035249				1.035382				

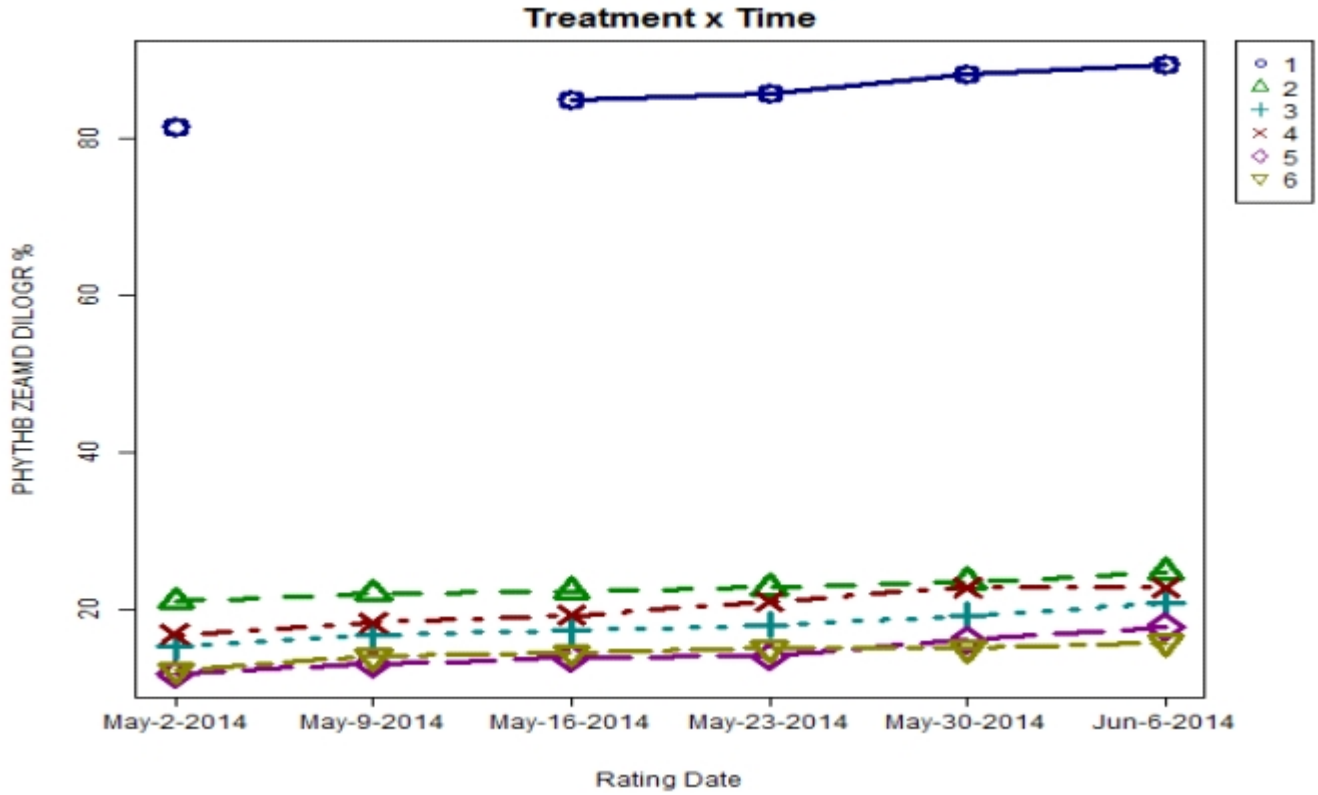
Crop Code
 ZEAMD, , Zea mays indentata, Dent corn = US
Rating Type

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 Cells	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.

Seed Treatment with Inoculation demo

Trial ID: G-AII7_SDTR_Inoc_002 Missing Cells 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.

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	0.6667	0.9833	1.0833	1.4667	2.1333	2.3667
Estimated Covariance	1.5909	1.5909	1.5909	1.5909	1.5909	2.6263
Residual Correlation	0.2807	0.4732	0.4424	0.5343	0.7029	1.0000
Estimated Correlation	0.6058	0.6058	0.6058	0.6058	0.6058	1.0000
Residual Covariance 9	1.2917	1.8750	2.2917	3.0833	3.8917	
Estimated Covariance	1.5909	1.5909	1.5909	1.5909	2.6263	
Residual Correlation	0.4241	0.7036	0.7299	0.8760	1.0000	
Estimated Correlation	0.6058	0.6058	0.6058	0.6058	1.0000	
Residual Covariance 8	0.6167	1.4000	2.0875	3.1833		
Estimated Covariance	1.5909	1.5909	1.5909	2.6263		
Residual Correlation	0.2239	0.5808	0.7351	1.0000		
Estimated Correlation	0.6058	0.6058	0.6058	1.0000		
Residual Covariance 7	1.4542	1.7500	2.5333			
Estimated Covariance	1.5909	1.5909	2.6263			
Residual Correlation	0.5918	0.8139	1.0000			
Estimated Correlation	0.6058	0.6058	1.0000			
Residual Covariance 6	1.3750	1.8250				
Estimated Covariance	1.5909	2.6263				
Residual Correlation	0.6593	1.0000				
Estimated Correlation	0.6058	1.0000				
Residual Covariance 5	2.3833					
Estimated Covariance	2.6263					
Residual Correlation	1.0000					
Estimated Correlation	1.0000					

See p. 89 in SAS report

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

DILGR = disease loci - growth

Rating Unit

% = percent