

MSU Soil Fertility Research Program

INFLUENCE OF POTASH APPLICATION TIMING (APRIL1, APRIL22, MAY 13) WITH AND WITHOUT A FERTILIZER CATALYST ON SOYBEAN.

Trial ID: SOYEL02-15 Location: Campus Trial Year: 15
 Investigator: Kurt Steinke
 Project ID: SOYPROMOPOT

Crop Code						GLXMA
Crop Name						Soybean
Crop Variety						P24T05R
Description						bu/ac
Rating Date						Oct-12-2015
Rating Type						YIELD
Rating Unit						BU/A
Crop Stage Scale						HARVEST
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Other Rate	Growth Unit Stage
						39
TABLE OF R MEANS						
Replicate 1						63
Replicate 2						55
Replicate 3						58
Replicate 4						54
TABLE OF A (Planting Date) MEANS						
1	With Bio CaTitan	AS		4 qt/ton	4 qt/ton	57 a
2	NO Bio CaTitan					58 a
LSD P=.05						10.6
Standard Deviation						8.1
CV						14.1
TABLE OF B (bioTitan catalyst) MEANS						
1	K2O 0-0-62	62 GR		120 lb ai/a	194 lb/a	Early Ap
2	K2O 0-0-62	62 GR		120 lb ai/a	194 lb/a	Mid Ap
3	K2O 0-0-62	62 GR		120 lb ai/a	194 lb/a	At Plant
LSD P=.05						6.2
Standard Deviation						5.5
CV						9.6
TABLE OF A (Planting Date) B (bioTitan catalyst) MEANS						
1	With Bio CaTitan	AS		4 qt/ton	4 qt/ton	Early Ap
1	K2O 0-0-62	62 GR		120 lb ai/a	194 lb/a	
2	NO Bio CaTitan					Early Ap
1	K2O 0-0-62	62 GR		120 lb ai/a	194 lb/a	
1	With Bio CaTitan	AS		4 qt/ton	4 qt/ton	Mid Ap
2	K2O 0-0-62	62 GR		120 lb ai/a	194 lb/a	
2	NO Bio CaTitan					Mid Ap
2	K2O 0-0-62	62 GR		120 lb ai/a	194 lb/a	
1	With Bio CaTitan	AS		4 qt/ton	4 qt/ton	At Plant
3	K2O 0-0-62	62 GR		120 lb ai/a	194 lb/a	
2	NO Bio CaTitan					At Plant
3	K2O 0-0-62	62 GR		120 lb ai/a	194 lb/a	
LSD P=.05						8.7
Standard Deviation						5.5
CV						9.6

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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COMPLETE SPLIT-PLOT AOV For GLXMA Soybean P24T05R bu/ac Oct-12-2015 YIELD BU/A HARVEST (Data Column 39)						
Missing values in column 39 results in unbalanced data, Least Squares Analysis is preferred						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.05)
Total	21	1006.567012				
R	3	272.619953	90.873318	2.963	0.0840	
A	1	6.458629	6.458629	0.098	0.7752	11
ERROR A	3	198.473225	66.157742			
B	2	84.909450	42.454725	1.384	0.2947	6
AB	2	137.375729	68.687864	2.239	0.1572	9
ERROR B	10	306.730027	30.673003			

Crop Code

GLXMA, BSOY, Glycine max, = US

Rating Type

YIELD = yield

ARM Action Codes

TY2 = 3.63*[C36]*(100-@MVAVGREP([C37]))/87