

MSU Soil Fertility Research Program

SOYBEAN TIME, SOURCE AND RATE INTERACTIONS

Trial ID: SOYEL07-16 Location: Campus Trial Year: 2016

Investigator: Kurt Steinke

Project ID: MOINTRXNSOYS

Crop Code	GLXMA
Crop Name	Soybean
Crop Variety	P2405R
Description	bu/ac@13%
Rating Date	Oct-24-2016
Rating Type	YIELD
Rating Unit	BU
Crop Stage Scale	HARVEST
Trt Treatment Form Form Rate Growth No. Name Conc Type Rate Unit Stage	5
TABLE OF R MEANS	
Replicate 1	62
Replicate 2	66
Replicate 3	63
Replicate 4	65
TABLE OF A (Cultural) MEANS	
1 PREPLANT	64 a
2 SideDressV4-V6	64 a
LSD P=.05	5.2
Standard Deviation	7.1
CV	11.1
TABLE OF B (Fertilizer) MEANS	
1 MOP 0-0-62 62 GR	63 a
2 Aspire 58 GR	65 a
LSD P=.05	5.2
Standard Deviation	7.1
CV	11.1
TABLE OF C (Rate) MEANS	
1 RATE 30	63 a
2 RATE 60	65 a
LSD P=.05	5.2
Standard Deviation	7.1
CV	11.1
TABLE OF A (Cultural) B (Fertilizer) MEANS	
1 PREPLANT	63 a
1 MOP 0-0-62 62 GR	
2 SideDressV4-V6	62 a
1 MOP 0-0-62 62 GR	
1 PREPLANT	64 a
2 Aspire 58 GR	
2 SideDressV4-V6	67 a
2 Aspire 58 GR	
LSD P=.05	7.4
Standard Deviation	7.1
CV	11.1
TABLE OF A (Cultural) C (Rate) MEANS	

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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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Growth Unit Stage
					5
1	PREPLANT				63 a
1	RATE 30				
2	SideDressV4-V6				63 a
1	RATE 30				
1	PREPLANT				65 a
2	RATE 60				
2	SideDressV4-V6				65 a
2	RATE 60				
LSD P=.05					7.4
Standard Deviation					7.1
CV					11.1
TABLE OF B (Fertilizer) C (Rate) MEANS					
1	MOP 0-0-62	62	GR		61 a
1	RATE 30				
2	Aspire	58	GR		65 a
1	RATE 30				
1	MOP 0-0-62	62	GR		64 a
2	RATE 60				
2	Aspire	58	GR		66 a
2	RATE 60				
LSD P=.05					7.4
Standard Deviation					7.1
CV					11.1
TABLE OF A (Cultural) B (Fertilizer) C (Rate) MEANS					
1	PREPLANT				61 a
1	MOP 0-0-62	62	GR		
1	RATE 30				
2	SideDressV4-V6				61 a
1	MOP 0-0-62	62	GR		
1	RATE 30				
1	PREPLANT				64 a
2	Aspire	58	GR		
1	RATE 30				
2	SideDressV4-V6				66 a
2	Aspire	58	GR		
1	RATE 30				
1	PREPLANT				65 a
1	MOP 0-0-62	62	GR		
2	RATE 60				
2	SideDressV4-V6				64 a
1	MOP 0-0-62	62	GR		
2	RATE 60				

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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Growth Unit	Stage
						5
1	PREPLANT					65 a
2	Aspire	58	GR			
2	RATE 60					
2	SideDressV4-V6					67 a
2	Aspire	58	GR			
2	RATE 60					
LSD	P=.05					10.4
Standard Deviation					7.1	
CV					11.1	

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COMPLETE FACTORIAL AOV For GLXMA Soybean P2405R bu/ac@13% Oct-24-2016 YIELD BU HARVEST (Data Column 5)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.05)
Total	31	1242.663137				
R	3	66.980407	22.326802	0.613	0.6513	
A	1	4.015558	4.015558	0.084	0.7908	8
RA	3	143.405784	47.801928			
B	1	60.327660	60.327660	2.408	0.2185	6
RB	3	75.151202	25.050401			
AB	1	13.798704	13.798704	0.173	0.7056	14
RAB	3	239.678264	79.892755			
C	1	35.875451	35.875451	1.865	0.2654	5
RC	3	57.705972	19.235324			
AC	1	0.105903	0.105903	0.001	0.9783	18
RAC	3	364.043872	121.347957			
BC	1	4.119345	4.119345	0.189	0.6933	7
RBC	3	65.469651	21.823217			
ABC	1	2.688151	2.688151	0.074	0.8035	14
RABC	3	109.297213	36.432404			

FACTORIAL/POOLED ERROR AOV For GLXMA Soybean P2405R bu/ac@13% Oct-24-2016 YIELD BU HARVEST (Data Column 5)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.05)
Total	31	1242.663137				
R	3	66.980407	22.326802	0.445	0.7237	
A	1	4.015558	4.015558	0.080	0.7801	5
B	1	60.327660	60.327660	1.201	0.2855	5
AB	1	13.798704	13.798704	0.275	0.6057	7
C	1	35.875451	35.875451	0.714	0.4076	5
AC	1	0.105903	0.105903	0.002	0.9638	7
BC	1	4.119345	4.119345	0.082	0.7774	7
ABC	1	2.688151	2.688151	0.054	0.8193	10
ERROR	21	1054.751959	50.226284			

Crop Code

GLXMA, BSOY, Glycine max, = US

Rating Type

YIELD = yield

Rating Unit

BU = bushel

ARM Action Codes

TY1 = 3.63\*[C2]\*(100-[C3])/87