

MSU Soil Fertility Research Program

CORN TIME, SOURCE AND RATE INTERACTIONS

Trial ID: CEL05-16 Location: Campus Trial Year: 2016

Investigator: Kurt Steinke

Project ID: MOINTRXNZM

Crop Code								ZEAMX
Crop Name								Corn
Crop Variety								DK48-12
Description								bu/ac@15.5%
Rating Date								Oct-18-2016
Rating Type								YIELD
Rating Unit								BU
Crop Stage Scale								HARVEST
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Other Unit	Other Rate	Growth Unit Stage	6
TABLE OF R MEANS								
Replicate 1								195
Replicate 2								211
Replicate 3								209
Replicate 4								193
TABLE OF A (Cultural) MEANS								
1 PREPLANT								207 a
2 SideDress V4-V6								196 a
LSD P=.05								11.8
Standard Deviation								16.0
CV								8.0
TABLE OF B (Fertilizer) MEANS								
1 MOP 0-0-62 62 GR								203 a
2 Aspire 58 GR								200 a
LSD P=.05								11.8
Standard Deviation								16.0
CV								8.0
TABLE OF C (RATE) MEANS								
1 RATE 30								202 a
1								
1								
2								201 a
2								
LSD P=.05								11.8
Standard Deviation								16.0
CV								8.0
TABLE OF A (Cultural) B (Fertilizer) MEANS								
1 PREPLANT								208 a
1 MOP 0-0-62 62 GR								
2 SideDress V4-V6								198 a
1 MOP 0-0-62 62 GR								
1 PREPLANT								206 a
2 Aspire 58 GR								
2 SideDress V4-V6								195 a
2 Aspire 58 GR								
LSD P=.05								16.7
Standard Deviation								16.0
CV								8.0

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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1	PREPLANT							208 a
1	RATE 30							
1								
1								
2	SideDress V4-V6							196 a
1	RATE 30							
1								
1								
1	PREPLANT							206 a
2								
2								
2	SideDress V4-V6							196 a
2								
2								
LSD P=.05								
Standard Deviation								
CV								
16.7								
16.0								
8.0								
TABLE OF B (Fertilizer) C (RATE) MEANS								
1	MOP 0-0-62	62 GR						204 a
1	RATE 30							
1								
1								
2	Aspire	58 GR						201 a
1	RATE 30							
1								
1								
1	MOP 0-0-62	62 GR						202 a
2								
2								
2								
2	Aspire	58 GR						200 a
2								
2								
LSD P=.05								
Standard Deviation								
CV								
16.7								
16.0								
8.0								
TABLE OF A (Cultural) B (Fertilizer) C (RATE) MEANS								
1	PREPLANT							209 a
1	MOP 0-0-62	62 GR						
1	RATE 30							
1								
1								

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							6
	2 SideDress V4-V6						198 a
	1 MOP 0-0-62	62	GR				
	1 RATE 30						
	1						
	1						
	1 PREPLANT						207 a
	2 Aspire	58	GR				
	1 RATE 30						
	1						
	1						
	2 SideDress V4-V6						195 a
	2 Aspire	58	GR				
	1 RATE 30						
	1						
	1						
	1 PREPLANT						208 a
	1 MOP 0-0-62	62	GR				
	2						
	2						
	2 SideDress V4-V6						197 a
	1 MOP 0-0-62	62	GR				
	2						
	2						
	1 PREPLANT						205 a
	2 Aspire	58	GR				
	2						
	2						
	2 SideDress V4-V6						195 a
	2 Aspire	58	GR				
	2						
	2						
	LSD P=.05						23.6
	Standard Deviation						16.0
	CV						8.0

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COMPLETE FACTORIAL AOV For ZEAMX Corn DK48-12 bu/ac@15.5% Oct-18-2016 YIELD BU HARVEST (Data Column 6)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.05)
Total	31	8405.794073				
R	3	1994.854682	664.951561	1.798	0.3209	
A	1	939.221920	939.221920	1.649	0.2892	27
RA	3	1708.358834	569.452945			
B	1	53.538861	53.538861	0.149	0.7256	21
RB	3	1081.115595	360.371865			
AB	1	0.062693	0.062693	0.002	0.9680	9
RAB	3	99.035007	33.011669			
C	1	5.351505	5.351505	0.221	0.6703	6
RC	3	72.625941	24.208647			
AC	1	6.076689	6.076689	0.021	0.8948	27
RAC	3	882.596128	294.198709			
BC	1	1.248899	1.248899	0.008	0.9332	20
RBC	3	451.613501	150.537834			
ABC	1	0.557360	0.557360	0.002	0.9715	43
RABC	3	1109.536458	369.845486			
FACTORIAL/POOLED ERROR AOV For ZEAMX Corn DK48-12 bu/ac@15.5% Oct-18-2016 YIELD BU HARVEST (Data Column 6)						
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.05)
Total	31	8405.794073				
R	3	1994.854682	664.951561	2.584	0.0804	
A	1	939.221920	939.221920	3.649	0.0698	12
B	1	53.538861	53.538861	0.208	0.6530	12
AB	1	0.062693	0.062693	0.000	0.9877	17
C	1	5.351505	5.351505	0.021	0.8867	12
AC	1	6.076689	6.076689	0.024	0.8793	17
BC	1	1.248899	1.248899	0.005	0.9451	17
ABC	1	0.557360	0.557360	0.002	0.9633	24
ERROR	21	5404.881464	257.375308			

Crop Code

ZEAMX, BCOR, Zea mays, = US

Rating Type

YIELD = yield

Rating Unit

BU = bushel

ARM Action Codes

TY1 = 3.889286*[C3]*(100-[C4])/84.5