

MSU Soil Fertility Research Program
 SPRING AND FALL APPLICATIONS OF BORON FORMULATIONS IN CORN
 Trial ID: MOFALLZM17.18 Location: Campus Trial Year: 2017
 Investigator: Kurt Steinke
 Project ID: MOFALLZM17.18

Crop Code							ZEAMX
Crop Name							Corn
Crop Variety							DKC51-38
Description							bu/ac15.5%
Rating Date							Oct-18-2018
Rating Type							YIELD
Rating Unit							BU
Crop Stage Scale							HVST
ARM Action Codes							TY1
Number of Decimals							0
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Other Rate	Other Rate Unit	Growth Stage
							7
TABLE OF R MEANS							
Replicate 1							165
Replicate 2							164
Replicate 3							163
Replicate 4							149
TABLE OF A (Cultural) MEANS							
1 Fall Application					FallPPI		148 b
1 Control							
2 Spring Application					SprPPI		172 a
LSD P=.05							15.4
Standard Deviation							16.8
CV							10.5
TABLE OF B (Fertilizer) MEANS							
1							138 c
2 MOP 0-0-62		62 GR		60 lb ai/a	97 lb/a		171 a
2							
3 MOP 0-0-62		62 GR		60 lb ai/a	97 lb/a		162 ab
3 Granubor 2		14.3 GR		0.5 lb ai/a	3.5 lb/a		
3							
4 Aspire		58 GR		60 lb ai/a	103 lb/a		157 b
4							
5 EXPCMT		58 GR		60 lb ai/a	103 lb/a		169 a
5							
6 EXPPULT1		58 GR		60 lb ai/a	103 lb/a		165 ab
6							
LSD P=.05							11.6
Standard Deviation							11.4
CV							7.1
TABLE OF A (Cultural) B (Fertilizer) MEANS							
1 Fall Application					FallPPI		104 e
1 Control							
1							
2 Spring Application					SprPPI		171 abc
1							

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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Number of Decimals						0		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Other Rate	Other Rate Unit	Growth Stage	
	1 Fall Application						FallPPI	165 a-d
	1 Control							
	2 MOP 0-0-62	62	GR	60 lb ai/a	97 lb/a			
	2							
	2 Spring Application						SprPPI	178 a
	2 MOP 0-0-62	62	GR	60 lb ai/a	97 lb/a			
	2							
	1 Fall Application						FallPPI	156 cd
	1 Control							
	3 MOP 0-0-62	62	GR	60 lb ai/a	97 lb/a			
	3 Granubor 2	14.3	GR	0.5 lb ai/a	3.5 lb/a			
	3							
	2 Spring Application						SprPPI	167 abc
	3 MOP 0-0-62	62	GR	60 lb ai/a	97 lb/a			
	3 Granubor 2	14.3	GR	0.5 lb ai/a	3.5 lb/a			
	3							
	1 Fall Application						FallPPI	149 d
	1 Control							
	4 Aspire	58	GR	60 lb ai/a	103 lb/a			
	4							
	2 Spring Application						SprPPI	165 a-d
	4 Aspire	58	GR	60 lb ai/a	103 lb/a			
	4							
	1 Fall Application						FallPPI	158 bcd
	1 Control							
	5 EXPCMT	58	GR	60 lb ai/a	103 lb/a			
	5							
	2 Spring Application						SprPPI	179 a
	5 EXPCMT	58	GR	60 lb ai/a	103 lb/a			
	5							
	1 Fall Application						FallPPI	157 bcd
	1 Control							
	6 EXPPULT1	58	GR	60 lb ai/a	103 lb/a			
	6							
	2 Spring Application						SprPPI	173 ab
	6 EXPPULT1	58	GR	60 lb ai/a	103 lb/a			
	6							
	LSD P=.05						16.4	
	Standard Deviation						11.4	
	CV						7.1	

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COMPLETE SPLIT-PLOT AOV For ZEAMX Corn DKC51-38 bu/ac15.5% Oct-18-2018 YIELD BU HVST TY1 0 (Data Column 7)							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.05)	
Total	47	24101.532569					
R	3	2008.202338	669.400779	5.181	0.0053		
A	1	6987.780887	6987.780887	24.850	0.0155		15
ERROR A	3	843.610996	281.203665				
B	5	5867.034252	1173.406850	9.081	0.0001		12
AB	5	4518.460627	903.692125	6.994	0.0002		16
ERROR B	30	3876.443470	129.214782				
FACTORIAL/POOLED ERROR AOV For ZEAMX Corn DKC51-38 bu/ac15.5% Oct-18-2018 YIELD BU HVST TY1 0 (Data Column 7)							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.05)	
Total	47	24101.532569					
R	3	2008.202338	669.400779	4.680	0.0078		
A	1	6987.780887	6987.780887	48.855	0.0001		7
B	5	5867.034252	1173.406850	8.204	0.0001		12
AB	5	4518.460627	903.692125	6.318	0.0003		17
ERROR	33	4720.054466	143.031954				

Crop Code

ZEAMX, BCOR, Zea mays, Corn = US

Rating Type

YIELD = yield

Rating Unit

BU = bushel

ARM Action Codes

TY1 = 3.889286*[C4]*(100-[C5])/84.5

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