

MSU Soil Fertility Research Program

PERFORMANCE OF SULFUR FERTILIZER FOR CORN PRODUCTION IN MICHIGAN

Trial ID: CEL05-13 Location: Campus pH Trial Year: 2013
 Investigator: Kurt Steinke
 Project ID: Study Director: Luke Thurgood

Crop Code							ZEAMX		
Crop Name							Corn		
Crop Variety							DKC 48-12RIB		
Description							15% moist		
Rating Date							Oct-22-2013		
Rating Type							Yield		
Rating Unit							Bu/ac		
Crop Stage Scale									
ARM Action Codes							TY2		
Number of Decimals							1		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	
									31
TABLE OF R MEANS									
Replicate 1									
									193.6
Replicate 2									
									193.7
Replicate 3									
									190.8
TABLE OF A (Rate of Treatment) MEANS									
1 SULFUR 15 LB AI/A									
									195.2 a
2 SULFUR 30 LB AI/A									
									190.2 a
TABLE OF B (Fertilizer) MEANS									
1 Fused ASN 14 GR 15 lb ai/a 107 lb/a PPI A									
1 UREA 46 GR 14 lb ai/a 30.4 lb/a PPI A									
1 MAP (11-52-0) 52 GR 66 lb ai/a 127 lb/a PPI A									
1 28% Nitrogen 3 SC 79 lb ai/a 26.3 gal/a V6 B									
									196.9 a
2 AS (21-0-0-24S) 24 GR 15 lb ai/a 62.5 lb/a PPI A									
2 AN (34-0-0) 34 GR 15 lb ai/a 44 lb/a PPI A									
2 MAP (11-52-0) 52 GR 66 lb ai/a 127 lb/a PPI A									
2 UREA 46 GR 14 lb ai/a 30.4 lb/a PPI A									
2 28% Nitrogen 3 SC 79 lb ai/a 26.3 gal/a V6 B									
									195.1 a
3 AS (21-0-0-24S) 24 GR 15 lb ai/a 62.5 lb/a PPI A									
3 UREA 46 GR 29 lb ai/a 63 lb/a PPI A									
3 MAP (11-52-0) 52 GR 66 lb ai/a 127 lb/a PPI A									
3 28% Nitrogen 3 SC 79 lb ai/a 26.3 gal/a V6 B									
									187.9 a
4 MES15 15 GR 15 lb ai/a 100 lb/a PPI A									
4 UREA 46 GR 36 lb ai/a 78 lb/a PPI A									
4 MAP (11-52-0) 52 GR 33 lb ai/a 63.5 lb/a PPI A									
4 28% Nitrogen 3 SC 79 lb ai/a 26.3 gal/a V6 B									
									190.8 a
TABLE OF A (Rate of Treatment) B (Fertilizer) MEANS									
1 SULFUR 15 LB AI/A									
1 Fused ASN 14 GR 15 lb ai/a 107 lb/a PPI A									
1 UREA 46 GR 14 lb ai/a 30.4 lb/a PPI A									
1 MAP (11-52-0) 52 GR 66 lb ai/a 127 lb/a PPI A									
1 28% Nitrogen 3 SC 79 lb ai/a 26.3 gal/a V6 B									
									197.9 a
2 SULFUR 30 LB AI/A									
1 Fused ASN 14 GR 15 lb ai/a 107 lb/a PPI A									
1 UREA 46 GR 14 lb ai/a 30.4 lb/a PPI A									
1 MAP (11-52-0) 52 GR 66 lb ai/a 127 lb/a PPI A									
1 28% Nitrogen 3 SC 79 lb ai/a 26.3 gal/a V6 B									
									195.9 a
1 SULFUR 15 LB AI/A									
2 AS (21-0-0-24S) 24 GR 15 lb ai/a 62.5 lb/a PPI A									
2 AN (34-0-0) 34 GR 15 lb ai/a 44 lb/a PPI A									
2 MAP (11-52-0) 52 GR 66 lb ai/a 127 lb/a PPI A									
2 UREA 46 GR 14 lb ai/a 30.4 lb/a PPI A									
2 28% Nitrogen 3 SC 79 lb ai/a 26.3 gal/a V6 B									
									198.8 a
2 SULFUR 30 LB AI/A									
2 AS (21-0-0-24S) 24 GR 15 lb ai/a 62.5 lb/a PPI A									
2 AN (34-0-0) 34 GR 15 lb ai/a 44 lb/a PPI A									
2 MAP (11-52-0) 52 GR 66 lb ai/a 127 lb/a PPI A									
2 UREA 46 GR 14 lb ai/a 30.4 lb/a PPI A									
2 28% Nitrogen 3 SC 79 lb ai/a 26.3 gal/a V6 B									
									191.4 a

Means followed by same letter do not significantly differ (P=.05, LSD)

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Rating Unit							Bu/ac		
Crop Stage Scale							TY2		
ARM Action Codes							1		
Number of Decimals									
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Other Rate	Other Unit	Growth Stage	Appl Code	
	1 SULFUR 15 LB AI/A								31
	3 AS (21-0-0-24S)	24	GR	15 lb ai/a	62.5 lb/a		PPI	A	182.7 a
	3 UREA	46	GR	29 lb ai/a	63 lb/a		PPI	A	
	3 MAP (11-52-0)	52	GR	66 lb ai/a	127 lb/a		PPI	A	
	3 28% Nitrogen	3	SC	79 lb ai/a	26.3 gal/a		V6	B	
	2 SULFUR 30 LB AI/A								
	3 AS (21-0-0-24S)	24	GR	15 lb ai/a	62.5 lb/a		PPI	A	193.0 a
	3 UREA	46	GR	29 lb ai/a	63 lb/a		PPI	A	
	3 MAP (11-52-0)	52	GR	66 lb ai/a	127 lb/a		PPI	A	
	3 28% Nitrogen	3	SC	79 lb ai/a	26.3 gal/a		V6	B	
	1 SULFUR 15 LB AI/A								
	4 MES15	15	GR	15 lb ai/a	100 lb/a		PPI	A	201.3 a
	4 UREA	46	GR	36 lb ai/a	78 lb/a		PPI	A	
	4 MAP (11-52-0)	52	GR	33 lb ai/a	63.5 lb/a		PPI	A	
	4 28% Nitrogen	3	SC	79 lb ai/a	26.3 gal/a		V6	B	
	2 SULFUR 30 LB AI/A								180.4 a
	4 MES15	15	GR	15 lb ai/a	100 lb/a		PPI	A	180.4 a
	4 UREA	46	GR	36 lb ai/a	78 lb/a		PPI	A	
	4 MAP (11-52-0)	52	GR	33 lb ai/a	63.5 lb/a		PPI	A	
	4 28% Nitrogen	3	SC	79 lb ai/a	26.3 gal/a		V6	B	

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COMPLETE SPLIT-PLOT AOV For ZEAMX Corn DKC 48-12RIB 15% moist Oct-22-2013 Yield Bu/ac TY2 1 (Data Column 31)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.05)
Total	23	2618.904919				
R	2	43.651968	21.825984	0.204	0.8185	11.3
A	1	148.269195	148.269195	3.302	0.2108	11.8
ERROR A	2	89.814580	44.907290	0.419	0.6670	16.0
B	3	299.626829	99.875610	0.932	0.4554	13.0
AB	3	751.213310	250.404437	2.336	0.1253	18.4
ERROR B	12	1286.329037	107.194086			

Crop Code

ZEAMX, BCOR, Zea mays, = US

Rating Type

Yield = yield

Rating Unit

Bu/ac = bushels per acre

ARM Action Codes

TY2 = 3.889286*[C30]*(100-[C28])/85