

MSU Soil Fertility Research Program

THE EFFECT OF POLYMER COATED AND UNCOATED GYPSUM AS AN SULFUR SOURCE IN CORN, 2012

Trial ID: CMRF16-12 Location: MRF Trial Year:
 Protocol ID: CMRF16-12 Investigator: Kurt Steinke
 Project ID: SFP Study Director:
 Sponsor Contact:

Crop Code						ZEAMX
Crop Name						Corn
Crop Variety						DKC 48-12 RIB
Description						at 15.5%
Rating Date						Oct-11-2012
Rating Type						yield
Rating Unit						bu/ac
Crop Stage Scale						
ARM Action Codes						TY1
Number of Decimals						1
Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Growth Stage	Appl Code
		Rate Unit	Rate	Rate	Unit	
						21
TABLE OF R MEANS						
	Replicate 1					228.2
	Replicate 2					232.8
	Replicate 3					237.6
	Replicate 4					232.5
TABLE OF A (SULFUR) MEANS						
	1 SULFUR 15					PPI A 230.7 a
	2 SULFUR 30					PPI A 234.9 a
TABLE OF B (PRODUCT) MEANS						
	1 GYPSUM	15 lb ai/a	88 lb/a	PPI	A	233.5 a
	1 UREA 46-0-0	150 lb ai/a	326 lb/a	PPI	A	
	2 COATED GYPSUM	15 lb ai/a	88 lb/a	PPI	A	225.6 b
	2 UREA 46-0-0	150 lb ai/a	326 lb/a	PPI	A	
	3 AS (24%S)	15 lb ai/a	62.5 lb/a	PPI	A	239.3 a
	3 UREA 46-0-0	137 lb ai/a	298 lb/a	PPI	A	
TABLE OF A (SULFUR) B (PRODUCT) MEANS						
	1 SULFUR 15					PPI A 235.7 a
	1 GYPSUM	15 lb ai/a	88 lb/a	PPI	A	
	1 UREA 46-0-0	150 lb ai/a	326 lb/a	PPI	A	
	2 SULFUR 30					PPI A 231.2 a
	1 GYPSUM	15 lb ai/a	88 lb/a	PPI	A	
	1 UREA 46-0-0	150 lb ai/a	326 lb/a	PPI	A	
	1 SULFUR 15					PPI A 219.9 a
	2 COATED GYPSUM	15 lb ai/a	88 lb/a	PPI	A	
	2 UREA 46-0-0	150 lb ai/a	326 lb/a	PPI	A	
	2 SULFUR 30					PPI A 231.3 a
	2 COATED GYPSUM	15 lb ai/a	88 lb/a	PPI	A	
	2 UREA 46-0-0	150 lb ai/a	326 lb/a	PPI	A	
	1 SULFUR 15					PPI A 236.4 a
	3 AS (24%S)	15 lb ai/a	62.5 lb/a	PPI	A	
	3 UREA 46-0-0	137 lb ai/a	298 lb/a	PPI	A	
	2 SULFUR 30					PPI A 242.2 a
	3 AS (24%S)	15 lb ai/a	62.5 lb/a	PPI	A	
	3 UREA 46-0-0	137 lb ai/a	298 lb/a	PPI	A	

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

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COMPLETE SPLIT-PLOT AOV For ZEAMX Corn DKC 48-12 RIB at 15.5% Oct-11-2012 yield bu/ac TY1 1 (Data Column 21)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.05)
Total	23	1995.141611				
R	3	269.744041	89.914680	1.993	0.1688	8.4
A	1	106.613789	106.613789	4.891	0.1139	6.1
ERROR A	3	65.393849	21.797950	0.483	0.7001	11.9
B	2	757.240886	378.620443	8.394	0.0052	7.3
AB	2	254.897152	127.448576	2.826	0.0987	10.3
ERROR B	12	541.251894	45.104324			

Crop Code

ZEAMX, BCOR, Zea mays, = US

Rating Unit

bu/ac = bushels per acre

ARM Action Codes

TY1 = $3.889286 * [C20] * (100 - [C18]) / 84.5$