

MSU Soil Fertility Research Program

THE EFFECTS OF AS, FUSED ASN, BLENDED ASN AND MOSAIC ES ON CORN, 2012

Trial ID: CEL05-12
 Protocol ID: CEL05-12
 Project ID: HONEYWELL

Location: CAMPUS Trial Year:
 Investigator: Kurt Steinke
 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							0
Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Growth Stage	Appl Code	
		Rate Unit	Rate	Rate	Unit		34
TABLE OF R MEANS							
Replicate 1							150
Replicate 2							123
Replicate 3							100
TABLE OF A (SULFUR) MEANS							
1 SULFUR 15 LBS							122 a
	1 UREA 46-0-0	137 lb ai/a	298 lb/a		PPI A		
2 SULFUR 30 LBS							127 a
	2 UREA 46-0-0	124 lb ai/a	270 lb/a		PPI A		
TABLE OF B (PRODUCT) MEANS							
1 AS (24%S)							124 a
2 FUSED ASN (14%S)							122 a
3 AS (24%S)							131 a
	3 Amm N 34-0-0	14.9 lb ai/a	44 lb/a		PPI A		
4 MES15							120 a
TABLE OF A (SULFUR) B (PRODUCT) MEANS							
1 SULFUR 15 LBS							122 a
	1 UREA 46-0-0	137 lb ai/a	298 lb/a		PPI A		
	1 AS (24%S)	15 lb ai/a	62.5 lb/a		PPI A		
2 SULFUR 30 LBS							127 a
	2 UREA 46-0-0	124 lb ai/a	270 lb/a		PPI A		
	1 AS (24%S)	15 lb ai/a	62.5 lb/a		PPI A		
1 SULFUR 15 LBS							124 a
	1 UREA 46-0-0	137 lb ai/a	298 lb/a		PPI A		
	2 FUSED ASN (14%S)	15 lb ai/a	107 lb/a		PPI A		
2 SULFUR 30 LBS							121 a
	2 UREA 46-0-0	124 lb ai/a	270 lb/a		PPI A		
	2 FUSED ASN (14%S)	15 lb ai/a	107 lb/a		PPI A		
1 SULFUR 15 LBS							121 a
	1 UREA 46-0-0	137 lb ai/a	298 lb/a		PPI A		
	3 AS (24%S)	15 lb ai/a	62.5 lb/a		PPI A		
	3 Amm N 34-0-0	14.9 lb ai/a	44 lb/a		PPI A		
2 SULFUR 30 LBS							142 a
	2 UREA 46-0-0	124 lb ai/a	270 lb/a		PPI A		
	3 AS (24%S)	15 lb ai/a	62.5 lb/a		PPI A		
	3 Amm N 34-0-0	14.9 lb ai/a	44 lb/a		PPI A		
1 SULFUR 15 LBS							122 a
	1 UREA 46-0-0	137 lb ai/a	298 lb/a		PPI A		
	4 MES15	15 lb ai/a	100 lb/a		PPI A		
2 SULFUR 30 LBS							117 a
	2 UREA 46-0-0	124 lb ai/a	270 lb/a		PPI A		
	4 MES15	15 lb ai/a	100 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 0 (Data Column 34)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.05)
Total	23	14939.888147				
R	2	10126.627782	5063.313891	20.362	0.0001	17
A	1	150.133480	150.133480	0.495	0.5547	31
ERROR A	2	607.027670	303.513835	1.221	0.3292	24
B	3	457.421481	152.473827	0.613	0.6194	20
AB	3	614.772093	204.924031	0.824	0.5055	28
ERROR B	12	2983.905640	248.658803			

Crop Code

ZEAMX, BCOR, Zea mays, = US

Rating Unit

bu/ac = bushels per acre

ARM Action Codes

TY1 = $3.889286 * [C33] * (100 - [C31]) / 84.5$