

MSU Soil Fertility Research Program

CORN RESPONSE TO MICRONUTRIENTS UNDER HIGH YIELD MANAGEMENT.

Trial ID: CSV01-13 Location: SVRF Trial Year: 2013
Investigator: Kurt Steinke

Project ID: MOHYM

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Form Unit	Other Rate	Other Unit	Growth Stage	Appl Code	Yield Bu/AC
	Crop Code									ZEAMX
	Crop Name									Corn
	Crop Variety									Stein 9523 VT3
	Description									15% moist
	Rating Date									Oct-30-2013
	Rating Type									Yield
	Rating Unit									Bu/AC
	Crop Stage Scale									TY1
	ARM Action Codes									1
	Number of Decimals									
	21									
1	CHECK								A	106.7 b
2	Urea 46-0-0 28 % Nitrogen	46 GR 3 SC		144 lb ai/a 96 lb ai/a		313 lb/a 32 gal/a		PPI SDV4	A B	175.0 a
3	Urea 46-0-0 28 % Nitrogen MAP 11-52-0 MOP Mosaic	46 GR 3 SC 52 GR 60 GR		133 lb ai/a 96 lb ai/a 52 lb ai/a 45 lb ai/a		290 lb/a 32 gal/a 100 lb/a 75 lb/a		PPI SDV4 PPI PPI	A B A A	166.8 a
4	Urea 46-0-0 28 % Nitrogen MESZ MOP Mosaic	46 GR 3 SC 40 GR 60 GR		128 lb ai/a 96 lb ai/a 52 lb ai/a 45 lb ai/a		278 lb/a 32 gal/a 130 lb/a 75 lb/a		PPI SDV4 PPI PPI	A B A A	173.1 a
5	Urea 46-0-0 28 % Nitrogen MESZ EM-1	46 GR 3 SC 40 GR 59 GR		128 lb ai/a 96 lb ai/a 52 lb ai/a 45 lb ai/a		278 lb/a 32 gal/a 130 lb/a 76 lb/a		PPI SDV4 PPI PPI	A B A A	174.0 a
6	Urea 46-0-0 28 % Nitrogen ACT267 MOP Mosaic	46 GR 3 SC 40 GR 60 GR		128 lb ai/a 96 lb ai/a 52 lb ai/a 45 lb ai/a		278 lb/a 32 gal/a 130 lb/a 75 lb/a		PPI SDV4 PPI PPI	A B A A	171.6 a
7	Urea 46-0-0 28 % Nitrogen ACT267 EM-1	46 GR 3 SC 40 GR 59 GR		128 lb ai/a 96 lb ai/a 52 lb ai/a 45 lb ai/a		278 lb/a 32 gal/a 130 lb/a 75 lb/a		PPI SDV4 PPI PPI	A B A A	171.2 a
8	Urea 46-0-0 28 % Nitrogen ACT 164 EM-1	46 GR 3 SC 38 GR 59 GR		130 lb ai/a 96 lb ai/a 52 lb ai/a 45 lb ai/a		283 lb/a 32 gal/a 137 lb/a 76 lb/a		PPI SDV4 PPI PPI	A B A A	174.3 a
9	Urea 46-0-0 28 % Nitrogen EM-1 MAP 11-52-0	46 GR 3 SC 59 GR 52 GR		133 lb ai/a 96 lb ai/a 45 lb ai/a 52 lb ai/a		290 lb/a 32 gal/a 76 lb/a 100 lb/a		PPI SDV4 PPI PPI	A B A A	183.3 a
10	Urea 46-0-0 28 % Nitrogen EM-2 MAP 11-52-0	46 GR 3 SC 59 GR 52 GR		133 lb ai/a 96 lb ai/a 45 lb ai/a 52 lb ai/a		290 lb/a 32 gal/a 76 lb/a 100 lb/a		PPI SDV4 PPI PPI	A B A A	173.6 a
11	Urea 46-0-0 28 % Nitrogen ACT259-3 MOP Mosaic	46 GR 3 SC 50 GR 60 GR		133 lb ai/a 96 lb ai/a 52 lb ai/a 45 lb ai/a		290 lb/a 32 gal/a 104 lb/a 75 lb/a		PPI SDV4 PPI PPI	A B A A	178.7 a

Means followed by same letter 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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Rating Date								Oct-30-2013		
Rating Type								Yield		
Rating Unit								Bu/AC		
Crop Stage Scale										
ARM Action Codes								TY1		
Number of Decimals								1		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit Unit	Other Rate	Other Rate	Growth Stage	Appl Code	
12	Urea 46-0-0	46	GR	130	lb ai/a	283	lb/a	PPI	A	175.0 a
	28 % Nitrogen	3	SC	96	lb ai/a	32	gal/a	SDV4	B	
	MES10	40	GR	52	lb ai/a	130	lb/a	PPI	A	
	EM-1	59	GR	45	lb ai/a	76	lb/a	PPI	A	
LSD (P=.05)										20.97
Standard Deviation										14.52
CV										8.61
Bartlett's X2										8.769
P(Bartlett's X2)										0.643
Skewness										-1.5382*
Kurtosis										3.1003*
Replicate F										6.840
Replicate Prob(F)										0.0010
Treatment F										7.517
Treatment Prob(F)										0.0001

Crop Code
 ZEAMX, BCOR, Zea mays, = US
Rating Type
 Yield = yield
Rating Unit
 Bu/AC = bushels per acre
ARM Action Codes
 TY1 = 3.889286*[20]*(100-[18])/85