

## MSU Soil Fertility Research Program

## CORN RESPONSE TO MICRONUTRIENTS UNDER HIGH YIELD MANANGEMENT.

Trial ID: CSV12-14 Location: SVRF Trial Year: 2014

Investigator: Kurt Steinke

Project ID: mohym

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit	Other Rate	Other Rate	Growth Unit	Stage	
Crop Code Crop Name Crop Variety Description Rating Date Rating Type Rating Unit Crop Stage Scale ARM Action Codes										ZEAMX Corn Stein 9753EVT 15% moist Nov-7-2014 YIELD BU  TY1
										8
1	Urea 46-0-0 28 % Nitrogen	46 GR 3 AL		144 lb 96 lb	ai/a ai/a	313 lb/a 32 gal/a		PPI SDV4		226.2 a
2	Urea 46-0-0 28 % Nitrogen MAP 11-52-0 MOP Mosaic	46 GR 3 AL 52 GR 60 GR		123 lb 96 lb 100 lb 75 lb	ai/a ai/a ai/a ai/a	267 lb/a 32 gal/a 192 lb/a 125 lb/a		PPI SDV4 PPI PPI		235.0 a
3	Urea 46-0-0 28 % Nitrogen MAP 11-52-0 Aspire	46 GR 3 AL 52 GR 58 GR		123 lb 96 lb 100 lb 75 lb	ai/a ai/a ai/a ai/a	267 lb/a 32 gal/a 192 lb/a 129 lb/a		PPI SDV4 PPI PPI		229.2 a
4	Urea 46-0-0 28 % Nitrogen MESZ MOP Mosaic	46 GR 3 AL 40 GR 60 GR		114 lb 96 lb 100 lb 75 lb	ai/a ai/a ai/a ai/a	248 lb/a 32 gal/a 250 lb/a 125 lb/a		PPI SDV4 PPI PPI		233.0 a
5	Urea 46-0-0 28 % Nitrogen MESZ Aspire	46 GR 3 AL 40 GR 58 GR		114 lb 96 lb 100 lb 75 lb	ai/a ai/a ai/a ai/a	248 lb/a 32 gal/a 250 lb/a 129 lb/a		PPI SDV4 PPI PPI		240.1 a
6	Urea 46-0-0 28 % Nitrogen MES10 MOP Mosaic	46 GR 3 AL 40 GR 60 GR		114 lb 96 lb 100 lb 75 lb	ai/a ai/a ai/a ai/a	248 lb/a 32 gal/a 250 lb/a 125 lb/a		PPI SDV4 PPI PPI		236.0 a
7	Urea 46-0-0 28 % Nitrogen MES10 Aspire	46 GR 3 AL 40 GR 58 GR		114 lb 96 lb 100 lb 75 lb	ai/a ai/a ai/a ai/a	248 lb/a 32 gal/a 250 lb/a 129 lb/a		PPI SDV4 PPI PPI		237.6 a
8	Urea 46-0-0 28 % Nitrogen MAP 11-52-0 Aspire K-Mag (22S)	46 GR 3 AL 52 GR 58 GR 22 GR		123 lb 96 lb 100 lb 45 lb 30 lb	ai/a ai/a ai/a ai/a ai/a	267 lb/a 32 gal/a 192 lb/a 77.6 lb/a 136 lb/a		PPI SDV4 PPI PPI PPI		226.1 a
9	Urea 46-0-0 28 % Nitrogen MESZ Aspire K-Mag (22S)	46 GR 3 AL 40 GR 58 GR 22 GR		114 lb 96 lb 100 lb 45 lb 30 lb	ai/a ai/a ai/a ai/a ai/a	248 lb/a 32 gal/a 250 lb/a 77.6 lb/a 136 lb/a		PPI SDV4 PPI PPI PPI		236.1 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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Crop Code							ZEAMX
Crop Name							Corn
Crop Variety							Stein 9753EVT
Description							15% moist
Rating Date							Nov-7-2014
Rating Type							YIELD
Rating Unit							BU
Crop Stage Scale							
ARM Action Codes							TY1
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Other Rate	Other Rate	Growth Stage
				Unit	Unit	Unit	
8							
10	Urea 46-0-0	46	GR	114 lb ai/a	248 lb/a		PPI
	28 % Nitrogen	3	AL	96 lb ai/a	32 gal/a		SDV4
	MESZ	40	GR	100 lb ai/a	250 lb/a		PPI
	MOP Mosaic	60	GR	45 lb ai/a	75 lb/a		PPI
	K-Mag (22S)	22	GR	30 lb ai/a	136 lb/a		PPI
LSD (P=.05)							16.73
Standard Deviation							11.53
CV							4.94
Bartlett's X2							9.015
P(Bartlett's X2)							0.436
Skewness							0.3136
Kurtosis							0.1521
Replicate F							2.004
Replicate Prob(F)							0.1372
Treatment F							0.685
Treatment Prob(F)							0.7156

Crop Code

ZEAMX, BCOR, Zea mays, = US

Rating Type

YIELD = yield

Rating Unit

BU = bushel

ARM Action Codes

TY1 =  $3.889286 * [C5] * (100 - [C6]) / 85$