

MSU Soil Fertility Research Program

EVALUATION OF CORN RESPONSE TO MICROESSENTIALS OF MES10 AND MES15.

Trial ID: CEL04-14 Location: CAMPUS Trial Year: 2014
 Investigator: Kurt Steinke
 Project ID: MOMICRO14

Crop Code	ZEAMX							
Crop Name	Corn							
Crop Variety	DKC 48-12RIB							
Description	15% moist							
Rating Date	Nov-5-2014							
Rating Type	YIELD							
Rating Unit	BU							
Crop Stage Scale	TY1							
ARM Action Codes	TY1							
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Other Rate	Other Rate Unit	Growth Stage	
1	CHECK							104.6 c
2	Urea 46-0-0	46 GR		135 lb ai/a	293 lb/a		PPI	192.5 ab
	MOP Mosaic	60 GR		60 lb ai/a	100 lb/a		PPI	
3	Urea 46-0-0	46 GR		118 lb ai/a	257 lb/a		PPI	209.0 ab
	MAP 11-52-0	52 GR		80 lb ai/a	154 lb/a		PPI	
	MOP Mosaic	60 GR		60 lb ai/a	100 lb/a		PPI	
4	Urea 46-0-0	46 GR		101 lb ai/a	220 lb/a		PPI	181.6 b
	MAP 11-52-0	52 GR		80 lb ai/a	154 lb/a		PPI	
	AS (21-0-0-24S)	24 GR		20 lb ai/a	83 lb/a		PPI	
	ZnSO4	36 GR		5 lb ai/a	13.9 lb/a		PPI	
	MOP Mosaic	60 GR		60 lb ai/a	100 lb/a		PPI	
5	Urea 46-0-0	46 GR		101 lb ai/a	220 lb/a		PPI	195.4 ab
	MAP 11-52-0	52 GR		80 lb ai/a	154 lb/a		PPI	
	AS (21-0-0-24S)	24 GR		20 lb ai/a	83 lb/a		PPI	
	ZnSO4	36 GR		2 lb ai/a	5.56 lb/a		PPI	
	MOP Mosaic	60 GR		60 lb ai/a	100 lb/a		PPI	
6	Urea 46-0-0	46 GR		111 lb ai/a	241 lb/a		PPI	214.5 a
	MES10	40 GR		80 lb ai/a	200 lb/a		PPI	
	MOP Mosaic	60 GR		60 lb ai/a	100 lb/a		PPI	
7	Urea 46-0-0	46 GR		111 lb ai/a	241 lb/a		PPI	201.5 ab
	MESZ	40 GR		80 lb ai/a	200 lb/a		PPI	
	MOP Mosaic	60 GR		60 lb ai/a	100 lb/a		PPI	
8	Urea 46-0-0	46 GR		104 lb ai/a	226 lb/a		PPI	197.7 ab
	MES15	33 GR		80 lb ai/a	242 lb/a		PPI	
	MOP Mosaic	60 GR		60 lb ai/a	100 lb/a		PPI	
9	Urea 46-0-0	46 GR		118 lb ai/a	257 lb/a		PPI	208.7 ab
	MAP 11-52-0	52 GR		80 lb ai/a	154 lb/a		PPI	
	Aspire	58 GR		60 lb ai/a	103 lb/a		PPI	
10	Urea 46-0-0	46 GR		111 lb ai/a	241 lb/a		PPI	195.7 ab
	MESZ	40 GR		80 lb ai/a	200 lb/a		PPI	
	Aspire	58 GR		60 lb ai/a	103 lb/a		PPI	
LSD (P=.05)								31.58
Standard Deviation								21.77
CV								11.45
Bartlett's X2								11.479
P(Bartlett's X2)								0.244
Skewness								-1.3918*
Kurtosis								1.3129
Replicate F								1.206
Replicate Prob(F)								0.3264
Treatment F								8.380
Treatment Prob(F)								0.0001

Crop Code
 ZEAMX, BCOR, Zea mays, = US

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 Type

YIELD = yield

Rating Unit

BU = bushel

ARM Action Codes

TY1 = $3.889286 * [C4] * (100 - [C5]) / 85$