

MSU Soil Fertility Research Program

PHOSPHORUS UPTAKE EFFICIENCY OF CORN AS AFFECT BY MES

Trial ID: CEL06-14 Location: CAMPUS hill Trial Year: 2014
 Protocol ID: CEL06-14 Investigator: Kurt Steinke
 Project ID: MOPHOS

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	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 DKC 48-12RIB 15% moist Nov-5-2014 YIELD BU TY1
								41
1	CHECK							50.3 d
2	Urea 46-0-0	46 GR		135 lb ai/a	293 lb/a		PPI	140.4 c
3	MAP 11-52-0	52 GR		30 lb ai/a	57.7 lb/a		PPI	138.2 c
	Urea 46-0-0	46 GR		129 lb ai/a	280 lb/a		PPI	
4	MAP 11-52-0	52 GR		60 lb ai/a	115 lb/a		PPI	151.9 bc
	Urea 46-0-0	46 GR		122 lb ai/a	265 lb/a		PPI	
5	MAP 11-52-0	52 GR		90 lb ai/a	173 lb/a		PPI	153.6 bc
	Urea 46-0-0	46 GR		116 lb ai/a	252 lb/a		PPI	
6	MAP 11-52-0	52 GR		120 lb ai/a	230 lb/a		PPI	178.0 a
	Urea 46-0-0	46 GR		110 lb ai/a	240 lb/a		PPI	
7	MAP 11-52-0	52 GR		30 lb ai/a	57.7 lb/a		PPI	147.7 c
	AS (21-0-0-24S)	24 GR		7.5 lb ai/a	31.3 lb/a		PPI	
	ZnSO4	36 GR		0.75 lb ai/a	2.08 lb/a		PPI	
	Urea 46-0-0	46 GR		122 lb ai/a	265 lb/a		PPI	
8	MAP 11-52-0	52 GR		60 lb ai/a	115 lb/a		PPI	153.7 bc
	AS (21-0-0-24S)	24 GR		15 lb ai/a	62.5 lb/a		PPI	
	ZnSO4	36 GR		1.5 lb ai/a	4.17 lb/a		PPI	
	Urea 46-0-0	46 GR		109 lb ai/a	237 lb/a		PPI	
9	MAP 11-52-0	52 GR		90 lb ai/a	173 lb/a		PPI	148.7 bc
	AS (21-0-0-24S)	24 GR		22.5 lb ai/a	94 lb/a		PPI	
	ZnSO4	36 GR		2.25 lb ai/a	6.25 lb/a		PPI	
	Urea 46-0-0	46 GR		96 lb ai/a	209 lb/a		PPI	
10	MAP 11-52-0	52 GR		120 lb ai/a	230 lb/a		PPI	168.4 ab
	AS (21-0-0-24S)	24 GR		30 lb ai/a	125 lb/a		PPI	
	ZnSO4	36 GR		3 lb ai/a	8.3 lb/a		PPI	
	Urea 46-0-0	46 GR		83 lb ai/a	180 lb/a		PPI	
11	MESZ	40 GR		30 lb ai/a	75 lb/a		PPI	155.1 bc
	Urea 46-0-0	46 GR		126 lb ai/a	274 lb/a		PPI	
12	MESZ	40 GR		60 lb ai/a	150 lb/a		PPI	154.6 bc
	Urea 46-0-0	46 GR		117 lb ai/a	254 lb/a		PPI	
13	MESZ	40 GR		90 lb ai/a	225 lb/a		PPI	145.9 c
	Urea 46-0-0	46 GR		108 lb ai/a	235 lb/a		PPI	

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.
 Missing data estimates are included in columns: Yates=41

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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							
ARM Action Codes							TY1
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Other Rate	Other Rate	Growth Unit Stage
14	MESZ Urea 46-0-0	40 GR	46 GR	120 lb ai/a	99 lb ai/a	300 lb/a	215 lb/a PPI PPI
							41
							154.5 bc
LSD (P=.05)							20.47
Standard Deviation							14.33
CV							9.83
Bartlett's X2							11.599
P(Bartlett's X2)							0.561
Skewness							-1.927*
Kurtosis							5.2849*
Replicate F							3.283
Replicate Prob(F)							0.0314
Treatment F							16.747
Treatment Prob(F)							0.0001

Crop Code

ZEAMX, BCOR, Zea mays, = US

Rating Type

YIELD = yield

Rating Unit

BU = bushel

ARM Action Codes

TY1 = $3.889286 * [C38] * (100 - [C39]) / 85$