

# MSU Soil Fertility Research Program

## PHOSPHORUS UPTAKE EFFICIENCY OF CORN AS AFFECT BY MES

Trial ID: CEL09-13    Location: CAMPUS    Trial Year: 2013  
 Investigator: Kurt Steinke  
 Project ID: MOPHOS

Crop Code								ZEAMX	
Crop Name								Corn	
Crop Variety								DKC 48-12RIB	
Description								15% moist	
Rating Date								Oct-29-2013	
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	Other Rate	Other Rate Unit	Growth Stage	Appl Code	
									38
1	CHECK							A	128.7 c
2	Urea 46-0-0	46	GR	135 lb ai/a	293 lb/a		PPI	A	218.0 ab
3	MAP 11-52-0	52	GR	30 lb ai/a	57.7 lb/a		PPI	A	216.1 ab
	Urea 46-0-0	46	GR	129 lb ai/a	280 lb/a		PPI	A	
4	MAP 11-52-0	52	GR	60 lb ai/a	115 lb/a		PPI	A	219.8 ab
	Urea 46-0-0	46	GR	122 lb ai/a	265 lb/a		PPI	A	
5	MAP 11-52-0	52	GR	90 lb ai/a	173 lb/a		PPI	A	204.9 b
	Urea 46-0-0	46	GR	116 lb ai/a	252 lb/a		PPI	A	
6	MAP 11-52-0	52	GR	120 lb ai/a	230 lb/a		PPI	A	217.2 ab
	Urea 46-0-0	46	GR	110 lb ai/a	240 lb/a		PPI	A	
7	MAP 11-52-0	52	GR	30 lb ai/a	57.7 lb/a		PPI	A	212.5 ab
	AS (21-0-0-24S)	24	GR	7.5 lb ai/a	31.3 lb/a		PPI	A	
	ZnSO4	36	GR	0.75 lb ai/a	2.08 lb/a		PPI	A	
	Urea 46-0-0	46	GR	122 lb ai/a	265 lb/a		PPI	A	
8	MAP 11-52-0	52	GR	60 lb ai/a	115 lb/a		PPI	A	210.9 b
	AS (21-0-0-24S)	24	GR	15 lb ai/a	62.5 lb/a		PPI	A	
	ZnSO4	36	GR	1.5 lb ai/a	4.17 lb/a		PPI	A	
	Urea 46-0-0	46	GR	109 lb ai/a	237 lb/a		PPI	A	
9	MAP 11-52-0	52	GR	90 lb ai/a	173 lb/a		PPI	A	210.9 b
	AS (21-0-0-24S)	24	GR	22.5 lb ai/a	94 lb/a		PPI	A	
	ZnSO4	36	GR	2.25 lb ai/a	6.25 lb/a		PPI	A	
	Urea 46-0-0	46	GR	96 lb ai/a	209 lb/a		PPI	A	
10	MAP 11-52-0	52	GR	120 lb ai/a	230 lb/a		PPI	A	212.8 ab
	AS (21-0-0-24S)	24	GR	30 lb ai/a	125 lb/a		PPI	A	
	ZnSO4	36	GR	3 lb ai/a	8.3 lb/a		PPI	A	
	Urea 46-0-0	46	GR	83 lb ai/a	180 lb/a		PPI	A	
11	MESZ	40	GR	30 lb ai/a	75 lb/a		PPI	A	212.8 ab
	Urea 46-0-0	46	GR	126 lb ai/a	274 lb/a		PPI	A	
12	MESZ	40	GR	60 lb ai/a	150 lb/a		PPI	A	209.9 b
	Urea 46-0-0	46	GR	117 lb ai/a	254 lb/a		PPI	A	
13	MESZ	40	GR	90 lb ai/a	225 lb/a		PPI	A	219.3 ab
	Urea 46-0-0	46	GR	108 lb ai/a	235 lb/a		PPI	A	
14	MESZ	40	GR	120 lb ai/a	300 lb/a		PPI	A	228.2 a
	Urea 46-0-0	46	GR	99 lb ai/a	215 lb/a		PPI	A	
LSD (P=.05)								15.85	
Standard Deviation								11.09	
CV								5.31	
Bartlett's X2								11.147	
P(Bartlett's X2)								0.598	
Skewness								-2.0916*	
Kurtosis								4.8814*	
Replicate F								7.060	
Replicate Prob(F)								0.0007	
Treatment F								18.261	
Treatment Prob(F)								0.0001	

Crop Code  
 ZEAMX, BCOR, Zea mays, = US  
 Rating Type  
 Yield = yield  
 Rating Unit

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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Bu/ac = bushels per acre

ARM Action Codes

TY1 =  $3.889286 * [C37] * (100 - [C35]) / 85$