

MSU Soil Fertility Research Program

RESPONSE OF CORN TO FALL AND SPRING APPLIED BORON

Trial ID: CEL08-14 Location: Campus (flex) Trial Year: 2013
 Protocol ID: MOBO Investigator: Kurt Steinke
 Project ID: MOBORON

Crop Code							ZEAMX	
Crop Name							Corn	
Crop Variety							DKC48-12RIB	
Description							15% moist	
Rating Date							Nov-5-2014	
Rating Type							YIELD	
Rating Unit							BU	
Crop Stage Scale								
ARM Action Codes							ET3 TY1	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Other Rate	Other Rate Unit	Growth Stage	
								4
1	Fall application Nitrogen only Urea 46-0-0	46	GR	150 lb ai/a	326	lb/a	FALL FALL FALL	190.6 a
2	Fall application MAP 11-52-0 Urea 46-0-0	52 46	GR GR	80 lb ai/a 133 lb ai/a	154	lb/a 326 lb/a	FALL FALL SPRNG	191.7 a
3	Fall application MAP MOP Urea 46-0-0	52 60 46	GR GR GR	80 lb ai/a 60 lb ai/a 133 lb ai/a	154 100	lb/a lb/a 326 lb/a	FALL FALL FALL SPRNG	194.9
4	Fall application MAP MOP Granubor-2 Urea 46-0-0	52 60 14.3 46	GR GR GR GR	80 lb ai/a 60 lb ai/a 0.5 lb ai/a 133 lb ai/a	154 100 3.5	lb/a lb/a lb/a 326 lb/a	FALL FALL FALL FALL SPRNG	190.8 a
5	Fall application MAP EM-1 Urea 46-0-0	52 58 46	GR GR GR	80 lb ai/a 60 lb ai/a 133 lb ai/a	154 103	lb/a lb/a 326 lb/a	FALL FALL FALL SPRNG	192.3 a
6	Fall application MESZ MOP Urea 46-0-0	40 60 46	GR GR GR	80 lb ai/a 60 lb ai/a 126 lb ai/a	200 100	lb/a lb/a 326 lb/a	FALL FALL FALL SPRNG	198.4 a
7	Fall application MESZ EM-1 Urea 46-0-0	40 58 46	GR GR GR	80 lb ai/a 60 lb ai/a 126 lb ai/a	200 103	lb/a lb/a 326 lb/a	FALL FALL FALL FALL SPRNG	207.7 a
8	Spring application Nitrogen only Urea 46-0-0	46	GR	150 lb ai/a	326	lb/a	SPRNG SPRNG SPRNG	184.6 a
9	Spring application MAP 11-52-0 Urea 46-0-0	52 46	GR GR	80 lb ai/a 133 lb ai/a	154 290	lb/a lb/a	SPRNG SPRNG SPRNG	190.6 a
10	Spring application MAP MOP Urea 46-0-0	52 60 46	GR GR GR	80 lb ai/a 60 lb ai/a 133 lb ai/a	154 100 290	lb/a lb/a lb/a	SPRNG SPRNG SPRNG SPRNG	188.9 a
11	Spring application MAP MOP Granubor-2 Urea 46-0-0	52 60 14.3 46	GR GR GR GR	80 lb ai/a 60 lb ai/a 0.5 lb ai/a 133 lb ai/a	154 100 3.5	lb/a lb/a lb/a 290 lb/a	SPRNG SPRNG SPRNG SPRNG SPRNG	190.9 a

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean separations are based on the complete error term.

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Other Rate	Other Rate	Growth Stage
				Unit	Unit	Unit	
4							
12	Spring application						SPRING
	MAP	52	GR	80 lb ai/a	154 lb/a		SPRNG
	EM-1	58	GR	60 lb ai/a	103 lb/a		SPRNG
	Urea 46-0-0	46	GR	133 lb ai/a	290 lb/a		SPRNG
13	Spring application						SPRNG
	MESZ	40	GR	80 lb ai/a	200 lb/a		SPRNG
	MOP	60	GR	60 lb ai/a	100 lb/a		SPRNG
	Urea 46-0-0	46	GR	126 lb ai/a	274 lb/a		SPRNG
14	Spring application						SPRNG
	MESZ	40	GR	80 lb ai/a	200 lb/a		SPRNG
	EM-1	58	GR	60 lb ai/a	103 lb/a		SPRNG
	Urea 46-0-0	46	GR	126 lb ai/a	274 lb/a		SPRNG
	LSD (P=.05)						16.76
	Standard Deviation						11.73
	CV						6.12
	Bartlett's X2						5.976
	P(Bartlett's X2)						0.917
	Skewness						-0.6531
	Kurtosis						-0.5498
	Replicate F						20.652
	Replicate Prob(F)						0.0001
	Treatment F						1.127
	Treatment Prob(F)						0.3702

Crop Code
 ZEAMX, BCOR, Zea mays, = US
Rating Type
 YIELD = yield
Rating Unit
 BU = bushel
ARM Action Codes
 ET3 = Excluded treatment 3
 TY1 = $3.889286 * [1] * (100 - [2]) / 85$