

MSU Soil Fertility Research Program

EFFECT OF NITROGEN STABILIZERS AND APPLICATION METHOD.

Trial ID: CEL10-13 Location: CAMPUS Trial Year: 2013

Investigator: Kurt Steinke

Project ID: DOW13

Crop Code								ZEAMX	
Crop Name								Corn	
Crop Variety								DKC 48-12RIB	
Description								15% moist	
Rating Date								Oct-22-2013	
Rating Type								Yield	
Rating Unit								Bu/ac	
Crop Stage Scale								TY1	
ARM Action Codes								1	
Number of Decimals								1	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Yield
1	28% Nitrogen	3	SC	130 lb ai/a	43.3 gal/a		PRE	A	170.9 def
2	28% Nitrogen	3	SC	110 lb ai/a	36.7 gal/a		PRE	A	149.3 fgh
3	28% Nitrogen	3	SC	130 lb ai/a	43.3 gal/a		PRE	A	165.0 d-g
	Instinct		SC	35 fl oz/a	35 fl oz/a		PRE	A	
4	28% Nitrogen	3	SC	110 lb ai/a	36.7 gal/a		PRE	A	163.2 efg
	Instinct		SC	35 fl oz/a	35 fl oz/a		PRE	A	
5	28% Nitrogen	3	SC	130 lb ai/a	43.3 gal/a		SDV3-4	B	211.6 a
6	28% Nitrogen	3	SC	110 lb ai/a	36.7 gal/a		SDV3-4	B	189.0 a-d
7	28% Nitrogen	3	SC	130 lb ai/a	43.3 gal/a		SDV3-4	B	202.3 ab
	Instinct		SC	35 fl oz/a	35 fl oz/a		SDV3-4	B	
8	28% Nitrogen	3	SC	110 lb ai/a	36.7 gal/a		SDV3-4	B	196.9 abc
	Instinct		SC	35 fl oz/a	35 fl oz/a		SDV3-4	B	
9	UNTREATED							B	82.3 i
10	28% Nitrogen	3	SC	90 lb ai/a	30 gal/a		PRE	A	137.5 h
11	28% Nitrogen	3	SC	90 lb ai/a	30 gal/a		PRE	A	141.4 gh
	Instinct		SC	35 fl oz/a	35 fl oz/a		PRE	A	
12	28% Nitrogen	3	SC	80 lb ai/a	26.7 gal/a		PRE	A	184.2 b-e
	28% Nitrogen	3	SC	50 lb ai/a	16.7 gal/a		SDV3-4	B	
13	28% Nitrogen	3	SC	80 lb ai/a	26.7 gal/a		PRE	A	176.9 cde
	Instinct		SC	35 fl oz/a	35 fl oz/a		PRE	A	
	28% Nitrogen	3	SC	50 lb ai/a	16.7 gal/a		SDV3-4	B	
LSD (P=.05)								25.14	
Standard Deviation								17.59	
CV								10.54	
Bartlett's X2								6.865	
P(Bartlett's X2)								0.866	
Skewness								-0.7974*	
Kurtosis								0.5449	
Replicate F								5.247	
Replicate Prob(F)								0.0042	
Treatment F								15.137	
Treatment Prob(F)								0.0001	

Crop Code
ZEAMX, BCOR, Zea mays, = US
Rating Type
Yield = yield
Rating Unit
Bu/ac = bushels per acre
ARM Action Codes
TY1 = 3.889286*[C14]*(100-[C12])/85

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.