

MSU Soil Fertility Research Program

RESPONSE OF CORN TO NUTRIEN- MST

Trial ID: CEL03-19

Location: SVRF

Trial Year: 2019

Investigator: Kurt Steinke

Project ID: NUTRIENCORN

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Other Rate	Other Rate Unit	Growth Stage	
	Crop Code Crop Name Crop Variety Description Rating Date	ZEAMX Corn P9998AM bu/ac15.5% Oct-23-2019						
	Rating Type Rating Unit Crop Stage Scale ARM Action Codes Number of Decimals	YIELD BU HARVEST TY1 0						
								17
1	CHECK							202 a
	TSP-PHOS	45	GR	118 lb/a	118 lb/a		PPI	
	MOP 0-0-62	62	GR	100 lb/a	100 lb/a		PPI	
	28% Nitrogen	3	AL	40 lb ai/a	13.3 gal/a		2X2	
	28% Nitrogen	3	AL	120 lb ai/a	40 gal/a		V3-V4	
2	MAP-MST	16.5	GR	121 lb/a	121 lb/a		PPI	204 a
	MOP 0-0-62	62	GR	100 lb/a	100 lb/a		PPI	
	28% Nitrogen	3	AL	40 lb ai/a	13.3 gal/a		2X2	
	28% Nitrogen	3	AL	109 lb ai/a	36.3 gal/a		V3-V4	
3	MES15	33	GR	125 lb/a	125 lb/a		PPI	204 a
	TSP-PHOS	45	GR	22 lb/a	22 lb/a		PPI	
	MOP 0-0-62	62	GR	100 lb/a	100 lb/a		PPI	
	28% Nitrogen	3	AL	40 lb ai/a	13.3 gal/a		2X2	
	28% Nitrogen	3	AL	103 lb ai/a	34.3 gal/a		V3-V4	
4	TSP-PHOS	45	GR	118 lb/a	118 lb/a		PPI	201 a
	MOP 0-0-62	62	GR	100 lb/a	100 lb/a		PPI	
	UAN-MST		AL	4.3 gal/a	4.3 gal/a		2X2T	
	28% Nitrogen	3	AL	9 gal/a	9 gal/a		2X2T	
	28% Nitrogen	3	AL	131 lb ai/a	43.7 gal/a		V3-V4	
5	AS (21-0-0-24S)	24	GR	83 lb/a	83 lb/a		PPI	206 a
	TSP-PHOS	45	GR	118 lb/a	118 lb/a		PPI	
	MOP 0-0-62	62	GR	100 lb/a	100 lb/a		PPI	
	28% Nitrogen	3	AL	40 lb ai/a	13.3 gal/a		2X2	
	28% Nitrogen	3	AL	103 lb ai/a	34.3 gal/a		V3-V4	
6	TSP-PHOS	45	GR	118 lb/a	118 lb/a		PPI	193 a
	MOP 0-0-62	62	GR	100 lb/a	100 lb/a		PPI	
	AmmThioSulf		AL	6.9 gal/a	6.9 gal/a		2X2T	
	28% Nitrogen	3	AL	6.4 gal/a	6.4 gal/a		2X2T	
	28% Nitrogen	3	AL	132 lb ai/a	44 gal/a		V3-V4	
7	MOP-MOP-MST		GR	125 lb/a	125 lb/a		PPI	169 a
	TSP-PHOS	45	GR	118 lb/a	118 lb/a		PPI	
	28% Nitrogen	3	AL	40 lb ai/a	13.3 gal/a		2X2	
	28% Nitrogen	3	AL	120 lb ai/a	40 gal/a		V3-V4	

Means followed by same letter or symbol 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=17

MSU Soil Fertility Research Program

RESPONSE OF CORN TO NUTRIEN- MST

Trial ID: CEL03-19

Location: SVRF

Trial Year: 2019

Investigator: Kurt Steinke

Project ID: NUTRIENCORN

Crop Code						ZEAMX
Crop Name						Corn
Crop Variety						P9998AM
Description						bu/ac15.5%
Rating Date						Oct-23-2019
Rating Type						YIELD
Rating Unit						BU
Crop Stage Scale						HARVEST
ARM Action Codes						TY1
Number of Decimals						0
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Other Rate Rate Unit	Growth Stage
						17
8	AMS-MST	GR		56 lb/a	56 lb/a	PPI
	TSP-PHOS	45 GR		118 lb/a	118 lb/a	PPI
	MOP 0-0-62	62 GR		100 lb/a	100 lb/a	PPI
	28% Nitrogen	3 AL		40 lb ai/a	13.3 gal/a	2X2
	28% Nitrogen	3 AL		111 lb ai/a	37 gal/a	V3-V4
LSD P=.05						29.7
Standard Deviation						20.1
CV						10.24
Replicate F						11.044
Replicate Prob(F)						0.0002
Treatment F						1.440
Treatment Prob(F)						0.2447

Crop Code

ZEAMX, BCOR, Zea mays, Corn = US

Rating Type

YIELD = yield

Rating Unit

BU = bushel

ARM Action Codes

TY1 = $3.889286 * [C14] * (100 - [C15]) / 84.5$

Means followed by same letter or symbol 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=17