

MSU Soil Fertility Research Program

RESPONSE OF SUGARBEET TO NUTRIEN- MST

Trial ID: BV09-19

Location: SVRF

Trial Year: 2019

Investigator: Kurt Steinke

Project ID: NUTRIENBV

Crop Code						BEAVA	BEAVA	BEAVA
Crop Name						Sugarbeet	Sugarbeet	Sugarbeet
Crop Variety						Crystal 675	Crystal 675	Crystal 675
Description						RWST	% Sugar	RWSA
Rating Date						Oct-14-2019	Oct-14-2019	Oct-14-2019
Rating Type						YIELD	YIELD	LBS RWSA
Rating Unit						POUNDS	PERCENT	POUNDS
Crop Stage Scale						HARVEST	HARVEST	HARVEST
ARM Action Codes								ET2 T2
Number of Decimals								0
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Other Rate Unit	Growth Stage		
						22	24	26
1	CHECK					273.14 a	17.80 a	7184 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	SD2-4lf		
2	MAP-MST	16.5	GR	121 lb/a	121 lb/a	PPI	281.26 a	18.34 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	SD2-4lf		
3	MES15	33	GR	125 lb/a	125 lb/a	PPI	286.85 a	18.70 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	SD2-4lf		
4	TSP-PHOS	45	GR	118 lb/a	118 lb/a	PPI	276.75 a	18.15 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	SD2-4lf		
5	AS (21-0-0-24S)	24	GR	83 lb/a	83 lb/a	PPI	280.87 a	18.19 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	SD2-4lf		
6	TSP-PHOS	45	GR	118 lb/a	118 lb/a	PPI	278.42 a	18.17 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	SD2-4lf		
7	MOP-MOP-MST		GR	125 lb/a	125 lb/a	PPI	277.06 a	18.06 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	SD2-4lf		

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).

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

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						BEAVA Sugarbeet Crystal 675 RWST Oct-14-2019	BEAVA Sugarbeet Crystal 675 % Sugar Oct-14-2019	BEAVA Sugarbeet Crystal 675 RWSA Oct-14-2019
						YIELD POUNDS HARVEST	YIELD PERCENT HARVEST	LBS RWSA POUNDS HARVEST ET2 T2 0
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Other Rate Rate Unit	Other Rate Rate Unit	Growth Stage	
								22
								24
								26
8	AMS-MST	GR		56 lb/a		56 lb/a	PPI	287.38 a
	TSP-PHOS	45 GR		118 lb/a		118 lb/a	PPI	18.67 a
	MOP 0-0-62	62 GR		100 lb/a		100 lb/a	PPI	7679 a
	28% Nitrogen	3 AL		40 lb ai/a		13.3 gal/a	2X2	
	28% Nitrogen	3 AL		111 lb ai/a		37 gal/a	SD2-4lf	
LSD P=.10						11.252	0.690	932.6
Standard Deviation						9.248	0.567	760.6
CV						3.3	3.11	9.75
Replicate F						7.211	4.929	8.959
Replicate Prob(F)						0.0017	0.0096	0.0008
Treatment F						1.150	1.153	0.803
Treatment Prob(F)						0.3712	0.3695	0.5808

Crop Code

BEAVA, BSUG, Beta vulgaris vulg. altissima, Sugarbeet = US

Rating Type

YIELD = yield

Rating Unit

PERCENT = percent

ARM Action Codes

ET2 = Excluded treatment 2

T2 = [C21]*[C22]

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