

MSU Soil Fertility Research Program

RESPONSE OF SUGARBEET TO CRYSTAL GREEN AND MAP

Trial ID: BV06-14 Location: SVRF Trial Year: 2014

Investigator: Kurt Steinke

Project ID: CRYGREEN

Crop Code							BEAVA	BEAVA	BEAVA	
Crop Name							Sugarbeet	Sugarbeet	Sugarbeet	
Crop Variety							Hillshog 179	Hillshog 179	Hillshog 179	
Description							Yield	% Sugar	RWSA	
Rating Date							Oct-6-2014	Oct-6-2014	Oct-6-2014	
Rating Type							YIELD			
Rating Unit							T-US		pounds/A	
Crop Stage Scale							Harvest			
ARM Action Codes							ET4 TY2		T4	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Other Rate	Other Rate Unit	Growth Stage			
1	CHECK							42	48	52
	28% Nitrogen	3	SC	40 lb ai/a	13.3 gal/a		2X2PL	36.4 a	16.4445 a	8976 a
	Urea 46-0-0	46	GR	120 lb ai/a	260 lb/a		SD2-4LF			
	CULTIVATION						SD2-4LF			
2	MAP 11-52-0	52	GR	55 lb ai/a	106 lb/a		2X2	35.8 a	17.3128 a	9376 a
	28% Nitrogen	3	SC	40 lb ai/a	13.3 gal/a		2X2PL			
	Urea 46-0-0	46	GR	108 lb ai/a	235 lb/a		SD2-4LF			
	CULTIVATION						SD2-4LF			
3	Crystal Green	28	GR	13.7 lb ai/a	49 lb/a		2X2	38.5 a	17.3898 a	10074 a
	MAP 11-52-0	52	GR	41.6 lb ai/a	80 lb/a		2X2			
	28% Nitrogen	3	SC	40 lb ai/a	13.3 gal/a		2X2PL			
	Urea 46-0-0	46	GR	109 lb ai/a	235 lb/a		SD2-4LF			
	CULTIVATION						SD2-4LF			
4	Crystal Green	28	GR	20.7 lb ai/a	74 lb/a		2X2	38.4	16.9637 a	9256 a
	MAP 11-52-0	52	GR	20.8 lb ai/a	40 lb/a		2X2			
	28% Nitrogen	3	SC	40 lb ai/a	13.3 gal/a		2X2PL			
	Urea 46-0-0	46	GR	112 lb ai/a	243 lb/a		SD2-4LF			
	CULTIVATION						SD2-4LF			
5	Crystal Green	28	GR	10.4 lb ai/a	37 lb/a		2X2	37.8 a	17.1343 a	9712 a
	MAP 11-52-0	52	GR	31.2 lb ai/a	60 lb/a		2X2			
	28% Nitrogen	3	SC	40 lb ai/a	13.3 gal/a		2X2PL			
	Urea 46-0-0	46	GR	112 lb ai/a	243 lb/a		SD2-4LF			
	CULTIVATION						SD2-4LF			
LSD (P=.10)							3.87	0.80958	1069.1	
Standard Deviation							2.94	0.63185	834.4	
CV							7.93	3.71	8.8	
Bartlett's X2							3.382	3.561	3.244	
P(Bartlett's X2)							0.336	0.469	0.518	
Skewness							-0.9752	-0.3532	-0.8839	
Kurtosis							1.0367	0.4655	0.0392	
Replicate F							8.053	0.845	8.830	
Replicate Prob(F)							0.0084	0.4998	0.0037	
Treatment F							0.688	1.417	1.035	
Treatment Prob(F)							0.5842	0.2975	0.4358	

Crop Code

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

Rating Type

YIELD = yield

Rating Unit

T-US = ton (short=2000 lb)

ARM Action Codes

ET4 = Excluded treatment 4

TY2 = 0.1244571*[C41]

T4 = [C42]*[C51]

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

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

Missing data estimates are included in columns: Yates=42,48,52