

MSU Soil Fertility Research Program

EVALUATION OF PLANTUFF, AG LIME AND BEET LIME IN SUGARBEET

Trial ID: BV03-16

Location: SVRF Trial Year: 2016

Investigator: Kurt Steinke

Project ID: PlantTuff BEETS

							BEAVA Sugarbeet Crystal RR059 tons/ac Oct-6-2016 YIELD T-US HARVEST	BEAVA Sugarbeet Crystal RR059 RWSA Oct-6-2016 LBS RWSA POUNDS HARVEST	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Other Rate	Other Rate	Growth Unit Stage		
				1000 lb/a	1000 lb/a		PPI	20	30
1	PlantTuff	GR		1000 lb/a	1000 lb/a		PPI	37 a	8684 a
	P205-PHOS	45 GR		20 lb ai/a	44.4 lb/a		2X2PL		
	K2O 0-0-62	62 GR		50 lb ai/a	81 lb/a		2X2PL		
	Manganese	27 GR		2 lb ai/a	7.4 lb/a		2X2PL		
	28% Nitrogen	3 AL		40 lb ai/a	13.3 gal/a		2X2PL		
	Urea 46-0-0	46 GR		120 lb ai/a	260 lb/a		SD2-4lf		
2	PlantTuff	GR		2000 lb/a	2000 lb/a		PPI	40 a	9238 a
	P205-PHOS	45 GR		20 lb ai/a	44.4 lb/a		2X2PL		
	K2O 0-0-62	62 GR		50 lb ai/a	81 lb/a		2X2PL		
	Manganese	27 GR		2 lb ai/a	7.4 lb/a		2X2PL		
	28% Nitrogen	3 AL		40 lb ai/a	13.3 gal/a		2X2PL		
	Urea 46-0-0	46 GR		120 lb ai/a	260 lb/a		SD2-4lf		
3	Ag Lime	GR		1000 lb/a	1000 lb/a		PPI	38 a	8887 a
	P205-PHOS	45 GR		20 lb ai/a	44.4 lb/a		2X2PL		
	K2O 0-0-62	62 GR		50 lb ai/a	81 lb/a		2X2PL		
	Manganese	27 GR		2 lb ai/a	7.4 lb/a		2X2PL		
	28% Nitrogen	3 AL		40 lb ai/a	13.3 gal/a		2X2PL		
	Urea 46-0-0	46 GR		120 lb ai/a	260 lb/a		SD2-4lf		
4	Ag Lime	GR		2000 lb/a	2000 lb/a		PPI	40 a	9256 a
	P205-PHOS	45 GR		20 lb ai/a	44.4 lb/a		2X2PL		
	K2O 0-0-62	62 GR		50 lb ai/a	81 lb/a		2X2PL		
	Manganese	27 GR		2 lb ai/a	7.4 lb/a		2X2PL		
	28% Nitrogen	3 AL		40 lb ai/a	13.3 gal/a		2X2PL		
	Urea 46-0-0	46 GR		120 lb ai/a	260 lb/a		SD2-4lf		
5	Beet Lime	GR		1000 lb/a	1000 lb/a		PPI	41	9318 a
	P205-PHOS	45 GR		20 lb ai/a	44.4 lb/a		2X2PL		
	K2O 0-0-62	62 GR		50 lb ai/a	81 lb/a		2X2PL		
	Manganese	27 GR		2 lb ai/a	7.4 lb/a		2X2PL		
	28% Nitrogen	3 AL		40 lb ai/a	13.3 gal/a		2X2PL		
	Urea 46-0-0	46 GR		120 lb ai/a	260 lb/a		SD2-4lf		
6	Beet Lime	GR		2000 lb/a	2000 lb/a		PPI	42 a	10022 a
	P205-PHOS	45 GR		20 lb ai/a	44.4 lb/a		2X2PL		
	K2O 0-0-62	62 GR		50 lb ai/a	81 lb/a		2X2PL		
	Manganese	27 GR		2 lb ai/a	7.4 lb/a		2X2PL		
	28% Nitrogen	3 AL		40 lb ai/a	13.3 gal/a		2X2PL		
	Urea 46-0-0	46 GR		120 lb ai/a	260 lb/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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Project ID: PlantTuff BEETS

							BEAVA	BEAVA	
							Sugarbeet	Sugarbeet	
							Crystal RR059	Crystal RR059	
							tons/ac	RWSA	
							Oct-6-2016	Oct-6-2016	
							YIELD	LBS RWSA	
							T-US	POUNDS	
							HARVEST	HARVEST	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Other Rate	Other Rate	Growth Unit Stage		
							20		30
7	CHECK						33 a		7227 a
	P205-PHOS	45	GR	20 lb ai/a	44.4 lb/a				
	K2O 0-0-62	62	GR	50 lb ai/a	81 lb/a				
	Manganese	27	GR	2 lb ai/a	7.4 lb/a				
	28% Nitrogen	3	AL	40 lb ai/a	13.3 gal/a				
	Urea 46-0-0	46	GR	120 lb ai/a	260 lb/a				
	LSD P=.10						6.1		1748.4
	Standard Deviation						4.9		1425.9
	CV						12.96		15.94
	Replicate F						0.324		0.797
	Replicate Prob(F)						0.8078		0.5117
	Treatment F						1.532		1.477
	Treatment Prob(F)						0.2388		0.2414

Crop Code

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

Rating Type

YIELD = yield

Rating Unit

T-US = ton (short=2000 lb)

ARM Action Codes

TY1 = 0.1244571*[C19]

T2 = [C20]*[C29]