

MSU Soil Fertility Research Program

RESPONSE OF SUGAR BEETS TO FOLIAR APPLICATIONS.

Trial ID: BV03-13 Location: SVRF Trial Year: 2013

Investigator: Kurt Steinke

Project ID: FOLIAR

							BEAVA Sugarbeet CyrstalRR074nt RWST Oct-17-2013 pounds Harvest 1	BEAVA Sugarbeet CyrstalRR074nt Yield Oct-17-2013 YIELD T-US Harvest TY1 1		
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Other Rate	Other Rate	Growth Stage	Appl Code	8	9
1	28% Nitrogen	3	SC	40 lb ai/a	13.3 gal/a		2X2PL	B	261.3 a	26.6 a
	MAP 11-52-0	52	GR	20 lb ai/a	38.5 lb/a		2X2PL	B		
	K2O 0-0-62	62	GR	50 lb ai/a	81 lb/a		2X2PL	B		
	Manganese	27	GR	2 lb ai/a	2 lb ai/a		2X2PL	B		
	Urea 46-0-0	46	GR	100 lb ai/a	217 lb/a		SD2-4lf	A		
	Weatherking	L		2 fl oz/a	2 fl oz/a		3-4LF	C		
	LI-700	L		0.125 % v/v	0.125 % v/v		3-4LF	C		
	LI-700	L		0.125 % v/v	0.125 % v/v		3-4LF	C		
2	28% Nitrogen	3	SC	40 lb ai/a	13.3 gal/a		2X2PL	B	261.3 a	24.6 a
	MAP 11-52-0	52	GR	20 lb ai/a	38.5 lb/a		2X2PL	B		
	K2O 0-0-62	62	GR	50 lb ai/a	81 lb/a		2X2PL	B		
	Manganese	27	GR	2 lb ai/a	2 lb ai/a		2X2PL	B		
	Urea 46-0-0	46	GR	100 lb ai/a	217 lb/a		SD2-4lf	A		
	AC 97	L		1 qt/a	1 qt/a		3-4LF	C		
	LI-700	L		0.125 % v/v	0.125 % v/v		3-4LF	C		
	LI-700	L		0.125 % v/v	0.125 % v/v		3-4LF	C		
3	28% Nitrogen	3	SC	40 lb ai/a	13.3 gal/a		2X2PL	B		
	MAP 11-52-0	52	GR	20 lb ai/a	38.5 lb/a		2X2PL	B		
	K2O 0-0-62	62	GR	50 lb ai/a	81 lb/a		2X2PL	B		
	Manganese	27	GR	2 lb ai/a	2 lb ai/a		2X2PL	B		
	Urea 46-0-0	46	GR	100 lb ai/a	217 lb/a		SD2-4lf	A		
	AC 97	L		1 qt/a	1 qt/a		3-4LF	C		
	LI-700	L		0.125 % v/v	0.125 % v/v		3-4LF	C		
	AC97	L		1 qt/a	1 qt/a		8 LF	D		
	LI-700	L		0.125 % v/v	0.125 % v/v		8 LF	D		
4	28% Nitrogen	3	SC	40 lb ai/a	13.3 gal/a		2X2PL	B	254.1 a	25.9 a
	MAP 11-52-0	52	GR	20 lb ai/a	38.5 lb/a		2X2PL	B		
	K2O 0-0-62	62	GR	50 lb ai/a	81 lb/a		2X2PL	B		
	Manganese	27	GR	2 lb ai/a	2 lb ai/a		2X2PL	B		
	Urea 46-0-0	46	GR	100 lb ai/a	217 lb/a		SD2-4lf	A		
	CPB 13MO54	L		1 qt/a	1 qt/a		3-4LF	C		
	LI-700	L		0.125 % v/v	0.125 % v/v		3-4LF	C		
	LI-700	L		0.125 % v/v	0.125 % v/v		3-4LF	C		
5	28% Nitrogen	3	SC	40 lb ai/a	13.3 gal/a		2X2PL	B	254.9 a	27.8 a
	MAP 11-52-0	52	GR	20 lb ai/a	38.5 lb/a		2X2PL	B		
	K2O 0-0-62	62	GR	50 lb ai/a	81 lb/a		2X2PL	B		
	Manganese	27	GR	2 lb ai/a	2 lb ai/a		2X2PL	B		
	Urea 46-0-0	46	GR	100 lb ai/a	217 lb/a		SD2-4lf	A		
	CPB 13MO54	L		1 qt/a	1 qt/a		3-4LF	C		
	LI-700	L		0.125 % v/v	0.125 % v/v		3-4LF	C		
	CPB 13MO54	L		1 qt/a	1 qt/a		21DA3L	E		
	LI-700	L		0.125 % v/v	0.125 % v/v		21DA3L	E		
6	28% Nitrogen	3	SC	40 lb ai/a	13.3 gal/a		2X2PL	B	264.2 a	23.3 a
	MAP 11-52-0	52	GR	20 lb ai/a	38.5 lb/a		2X2PL	B		
	K2O 0-0-62	62	GR	50 lb ai/a	81 lb/a		2X2PL	B		
	Manganese	27	GR	2 lb ai/a	2 lb ai/a		2X2PL	B		
	Urea 46-0-0	46	GR	100 lb ai/a	217 lb/a		SD2-4lf	A		
	CPB 13K120	L		1 qt/a	1 qt/a		3-4LF	C		
	LI-700	L		0.125 % v/v	0.125 % v/v		3-4LF	C		
	CPB 13K120	L		1 qt/a	1 qt/a		21DA3L	E		
	LI-700	L		0.125 % v/v	0.125 % v/v		21DA3L	E		

Means followed by same letter do not significantly differ (P=.10, Student-Newman-Keuls)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Missing data estimates are included in columns: Average=8,9

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RESPONSE OF SUGAR BEETS TO FOLIAR APPLICATIONS.

Trial ID: BV03-13 Location: SVRF Trial Year: 2013
 Investigator: Kurt Steinke
 Project ID: FOLIAR

Crop Code	BEAVA	BEAVA								
Crop Name	Sugarbeet	Sugarbeet								
Crop Variety	CyrstalRR074nt	CyrstalRR074nt								
Description	RWST	Yield								
Rating Date	Oct-17-2013	Oct-17-2013								
Rating Type		YIELD								
Rating Unit	pounds	T-US								
Crop Stage Scale	Harvest	Harvest								
ARM Action Codes		TY1								
Number of Decimals	1	1								
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Other Rate	Other Rate	Growth Unit	Appl Code	8	9
7	28% Nitrogen	3	SC	40 lb ai/a	13.3 gal/a		2X2PL	B	263.7 a	22.4 a
	MAP 11-52-0	52	GR	20 lb ai/a	38.5 lb/a		2X2PL	B		
	K2O 0-0-62	62	GR	50 lb ai/a	81 lb/a		2X2PL	B		
	Manganese	27	GR	2 lb ai/a	2 lb ai/a		2X2PL	B		
	Urea 46-0-0	46	GR	100 lb ai/a	217 lb/a		SD2-4lf	A		
	CPB 13S63		L	1 qt/a	1 qt/a		3-4LF	C		
	LI-700		L	0.125 % v/v	0.125 % v/v		3-4LF	C		
	CPB 13S63		L	1 qt/a	1 qt/a		21DA3L	E		
	LI-700		L	0.125 % v/v	0.125 % v/v		21DA3L	E		
8	28% Nitrogen	3	SC	40 lb ai/a	13.3 gal/a		2X2PL	B		
	MAP 11-52-0	52	GR	20 lb ai/a	38.5 lb/a		2X2PL	B		
	K2O 0-0-62	62	GR	50 lb ai/a	81 lb/a		2X2PL	B		
	Manganese	27	GR	2 lb ai/a	2 lb ai/a		2X2PL	B		
	Urea 46-0-0	46	GR	100 lb ai/a	217 lb/a		SD2-4lf	A		
	CPB 13MN25		L	1 qt/a	1 qt/a		3-4LF	C		
	LI-700		L	0.125 % v/v	0.125 % v/v		3-4LF	C		
	CPB 13MN25		L	1 qt/a	1 qt/a		21DA3L	E		
	LI-700		L	0.125 % v/v	0.125 % v/v		21DA3L	E		
9	CHECK							B	255.8 a	21.4 a
	28% Nitrogen	3	SC	40 lb ai/a	13.3 gal/a		2X2PL	B		
	MAP 11-52-0	52	GR	20 lb ai/a	38.5 lb/a		2X2PL	B		
	K2O 0-0-62	62	GR	50 lb ai/a	81 lb/a		2X2PL	B		
	Manganese	27	GR	2 lb ai/a	2 lb ai/a		2X2PL	B		
	Urea 46-0-0	46	GR	100 lb ai/a	217 lb/a		SD2-4lf	A		
LSD (P=.10)									16.18	7.16
Standard Deviation									12.84	5.64
CV									4.95	22.95
Bartlett's X2									4.449	4.393
P(Bartlett's X2)									0.616	0.624
Skewness									-0.1408	0.8295
Kurtosis									-1.0281	0.3209
Replicate F									1.412	0.573
Replicate Prob(F)									0.2873	0.6444
Treatment F									0.445	0.692
Treatment Prob(F)									0.8353	0.6616

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 = 0.1281177*[C6]