

MSU Soil Fertility Research Program

RESPONSE OF SUGARBEET TO AGNITION

Trial ID: BV05-14 Location: SVRF Trial Year: 2014

Investigator: Kurt Steinke

Project ID: AGNITION

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							TY2		T3	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Other Rate	Other Rate Unit	Growth Stage	9	15	19
1	CHECK							36.5 a	17.2352 a	9465 a
	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	28% Nitrogen	3	AL	40 lb ai/a	13.3 gal/a		2X2PL	37.8 a	16.4630 a	9319 a
	Generate	100	AL	1 qt/a	1 qt/a		POPUP			
	H2O		AL	5.75 gal/a	5.75 gal/a		POPUP			
	Urea 46-0-0	46	GR	120 lb ai/a	260 lb/a		SD2-4lf			
3	28% Nitrogen	3	AL	40 lb ai/a	13.3 gal/a		2X2PL	36.2 a	17.0440 a	9287 a
	Generate	100	AL	1 qt/a	1 qt/a		2X2PL			
	Urea 46-0-0	46	GR	120 lb ai/a	260 lb/a		SD2-4lf			
4	28% Nitrogen	3	AL	40 lb ai/a	13.3 gal/a		2X2PL	38.3 a	16.9315 a	9811 a
	Generate	100	AL	1 qt/a	1 qt/a		POPUP			
	H2O		AL	5.75 gal/a	5.75 gal/a		POPUP			
	Urea 46-0-0	46	GR	120 lb ai/a	260 lb/a		SD2-4lf			
	Generate	100	AL	1 qt/a	1 qt/a		FOL2-4lf			
5	28% Nitrogen	3	AL	40 lb ai/a	13.3 gal/a		2X2PL	36.0 a	16.8072 a	9098 a
	Generate	100	AL	1 qt/a	1 qt/a		2X2PL			
	Urea 46-0-0	46	GR	120 lb ai/a	260 lb/a		SD2-4lf			
	Generate	100	AL	1 qt/a	1 qt/a		FOL2-4lf			
6	28% Nitrogen	3	AL	40 lb ai/a	13.3 gal/a		2X2PL	35.5 a	16.8503 a	8976 a
	Urea 46-0-0	46	GR	120 lb ai/a	260 lb/a		SD2-4lf			
	Generate	100	AL	1 qt/a	1 qt/a		RwCl			
	Generate	100	AL	1 qt/a	1 qt/a		10DARw			
7	28% Nitrogen	3	AL	40 lb ai/a	13.3 gal/a		2X2PL	40.2 a	17.0310 a	10355 a
	Urea 46-0-0	46	GR	120 lb ai/a	260 lb/a		SD2-4lf			
	Generate	100	AL	1 qt/a	1 qt/a		FOL2-4lf			
	Generate	100	AL	1 qt/a	1 qt/a		10-14DA2			
LSD (P=.10)							4.78	0.66284	1344.6	
Standard Deviation							3.84	0.53231	1079.8	
CV							10.33	3.15	11.4	
Bartlett's X2							8.257	3.829	4.375	
P(Bartlett's X2)							0.22	0.70	0.626	
Skewness							-0.3369	-0.0736	-0.6225	
Kurtosis							-0.8149	-1.2026	-0.5212	
Replicate F							2.884	2.709	1.524	
Replicate Prob(F)							0.0732	0.0850	0.2520	
Treatment F							0.738	0.830	0.765	
Treatment Prob(F)							0.6282	0.5661	0.6092	

Crop Code

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

Rating Type

YIELD = yield

Rating Unit

T-US = ton (short=2000 lb)

ARM Action Codes

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=9,15,19

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TY2 = 0.1244571*[C8]
T3 = [C9]*[C18]