

MSU Soil Fertility Research Program  
**RESPONSE OF SUGARBEET TO FOLIAR APPLICATIONS OF NITROGEN**  
 Trial ID: BV08-18    Location: SVREC    Trial Year: 2018  
 Investigator: Kurt Steinke  
 Project ID: FOLIAR

Crop Code						BEAVA	BEAVA	BEAVA	
Crop Name						Sugarbeet	Sugarbeet	Sugarbeet	
Crop Variety						Beta 1399	Beta 1399	Beta 1399	
Description						% Sugar	RWST	RWSA	
Rating Date						Oct-16-2018	Oct-16-2018	Oct-16-2018	
Rating Type								LBS RWSA	
Rating Unit								POUNDS	
Crop Stage Scale						HARVEST	HARVEST	HARVEST	
ARM Action Codes								T2	
Number of Decimals						1	0	0	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Other Rate Unit	Growth Stage	12	13	14
1	P205-PHOS	45	GR	20 lb ai/a	44.4 lb/a	2X2PL	16.6 a	246 a	8132 abc
	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			
	28% N Rain	3	AL	120 lb ai/a	40 gal/a	2-4LF			
2	P205-PHOS	45	GR	20 lb ai/a	44.4 lb/a	2X2PL	16.8 a	250 a	7947 abc
	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			
	28% N Rain	3	AL	80 lb ai/a	26.7 gal/a	2-4LF			
3	P205-PHOS	45	GR	20 lb ai/a	44.4 lb/a	2X2PL	16.9 a	251 a	8535 ab
	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			
	28% N Rain	3	AL	120 lb ai/a	40 gal/a	2-4LF			
	WATER 50%		AL			2-4LF			
4	P205-PHOS	45	GR	20 lb ai/a	44.4 lb/a	2X2PL	16.9 a	250 a	7982 abc
	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			
	28% N Rain	3	AL	80 lb ai/a	26.7 gal/a	2-4LF			
	WATER 50%		AL			2-4LF			
5	P205-PHOS	45	GR	20 lb ai/a	44.4 lb/a	2X2PL	16.4 a	242 a	8085 abc
	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			
	28% N Rain	3	AL	120 lb ai/a	40 gal/a	8-10LF			
6	P205-PHOS	45	GR	20 lb ai/a	44.4 lb/a	2X2PL	16.8 a	249 a	8797 a
	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			
	28% N Rain	3	AL	80 lb ai/a	26.7 gal/a	8-10LF			
7	P205-PHOS	45	GR	20 lb ai/a	44.4 lb/a	2X2PL	16.3 a	243 a	7523 c
	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			
	28% N Rain	3	AL	120 lb ai/a	40 gal/a	8-10LF			
	WATER 50%		AL			8-10LF			

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.  
 Missing data estimates are included in columns: Yates=14

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 Trial ID: BV08-18    Location: SVREC    Trial Year: 2018  
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						BEAVA Sugarbeet Beta 1399 % Sugar Oct-16-2018	BEAVA Sugarbeet Beta 1399 RWST Oct-16-2018	BEAVA Sugarbeet Beta 1399 RWSA Oct-16-2018	
Crop Code									
Crop Name									
Crop Variety									
Description									
Rating Date									
Rating Type								LBS RWSA	
Rating Unit								POUNDS	
Crop Stage Scale						HARVEST	HARVEST	HARVEST	
ARM Action Codes								T2	
Number of Decimals						1	0	0	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Other Rate Unit	Growth Stage	12	13	14
8	P205-PHOS	45	GR	20 lb ai/a	44.4 lb/a	2X2PL	16.5 a	243 a	7301 c
	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			
	28% N Rain	3	AL	80 lb ai/a	26.7 gal/a	8-10LF			
	WATER 50%		AL			8-10LF			
9	P205-PHOS	45	GR	20 lb ai/a	44.4 lb/a	2X2PL	16.2 a	239 a	7801 bc
	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			
	28% N Flat Fan	3	AL	120 lb ai/a	40 gal/a	2-4LF			
10	P205-PHOS	45	GR	20 lb ai/a	44.4 lb/a	2X2PL	16.2 a	237 a	7736 bc
	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			
	28% N Flat Fan	3	AL	120 lb ai/a	40 gal/a	8-10LF			
11	P205-PHOS	45	GR	20 lb ai/a	44.4 lb/a	2X2PL	16.3 a	237 a	7803 bc
	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	2-4LF			
12	CHECK						16.7 a	248 a	5935 d
LSD P=.10						0.52	9.4	961.8	
Standard Deviation						0.43	7.9	803.0	
CV						2.61	3.22	10.3	
Replicate F						3.578	4.735	7.333	
Replicate Prob(F)						0.0241	0.0074	0.0007	
Treatment F						1.603	1.745	3.152	
Treatment Prob(F)						0.1438	0.1063	0.0055	

Crop Code  
 BEAVA, BSUG, Beta vulgaris vulg. altissima, Sugarbeet = US  
ARM Action Codes  
 T2 = [C7]\*[C13]

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.  
 Missing data estimates are included in columns: Yates=14