

MSU Soil Fertility Research Program
 EVALUATION OF IN FURROW AND 2X2 APPLICATIONS WITH QUALITY LIQUID FERTILIZER IN BEETS
 Trial ID: BV09-18 Location: SVREC Trial Year: 2018
 Investigator: Kurt Steinke
 Project ID: QLFEEDS

						BEAVA Sugarbeet Beta 1399 % Sugar Oct-17-2018	BEAVA Sugarbeet Beta 1399 RWST Oct-17-2018	BEAVA Sugarbeet Beta 1399 RWSA Oct-17-2018	
Crop Code									
Crop Name									
Crop Variety									
Description									
Rating Date									
Rating Type									
Rating Unit								LBS RWSA	
Crop Stage Scale								POUNDS	
ARM Action Codes						HARVEST ET10	HARVEST AL	HARVEST T2	
Number of Decimals						1	0	0	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Other Rate Unit	Growth Stage	10	11	12
1	L-CBF 7-21-3	AL		2 gal/a	2 gal/a	INFUR	16.2 abc	240 ab	5939 a
	WATER	AL		4 gal/a	4 gal/a	INFUR			
	28% Nitrogen	3 AL		12 gal/a	12 gal/a	2X2			
	L-CBF BOOST	AL		2 gal/a	2 gal/a	2X2			
	Mn chelate	AL		1 qt/a	1 qt/a	2X2			
	B chelate	AL		1 qt/a	1 qt/a	2X2			
	WATER	AL		4 gal/a	4 gal/a	2X2			
	28% Nitrogen	3 AL		102 lb ai/a	34 gal/a	2-4LF			
2	10-34-0	AL		2 gal/a	2 gal/a	INFUR	15.8 cd	230 bc	6308 a
	WATER	AL		4 gal/a	4 gal/a	INFUR			
	28% Nitrogen	3 AL		12 gal/a	12 gal/a	2X2			
	Mn chelate	AL		1 qt/a	1 qt/a	2X2			
	B chelate	AL		1 qt/a	1 qt/a	2X2			
	WATER	AL		6 gal/a	6 gal/a	2X2			
	28% Nitrogen	3 AL		102 lb ai/a	34 gal/a	2-4LF			
3	10-34-0	AL		2 gal/a	2 gal/a	INFUR			
	L-CBF BOOST	AL		1 gal/a	1 gal/a	INFUR			
	WATER	AL		3 gal/a	3 gal/a	INFUR			
	28% Nitrogen	3 AL		12 gal/a	12 gal/a	2X2			
	Mn chelate	AL		1 qt/a	1 qt/a	2X2			
	B chelate	AL		1 qt/a	1 qt/a	2X2			
	WATER	AL		6 gal/a	6 gal/a	2X2			
	28% Nitrogen	3 AL		102 lb ai/a	34 gal/a	2-4LF			
4	L-CBF 7-21-3	AL		2 gal/a	2 gal/a	INFUR	16.2 abc	239 ab	7380 a
	WATER	AL		4 gal/a	4 gal/a	INFUR			
	L-CBF 7-21-3	AL		4 gal/a	4 gal/a	2X2			
	L-CBF BOOST	AL		2 gal/a	2 gal/a	2X2			
	28% Nitrogen	3 AL		12 gal/a	12 gal/a	2X2			
	Mn chelate	AL		1 qt/a	1 qt/a	2X2			
	B chelate	AL		1 qt/a	1 qt/a	2X2			
	28% Nitrogen	3 AL		102 lb ai/a	34 gal/a	2-4LF			

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).
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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-17-2018	Oct-17-2018	Oct-17-2018
Rating Type								LBS RWSA
Rating Unit								POUNDS
Crop Stage Scale						HARVEST	HARVEST	HARVEST
ARM Action Codes						ET10	AL	T2
Number of Decimals						1	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Other Rate	Other Rate Unit	Growth Stage	
5	10-34-0	AL		2 gal/a	2 gal/a		INFUR	16.0 bc
	WATER	AL		4 gal/a	4 gal/a		INFUR	234 ab
	10-34-0	AL		4 gal/a	4 gal/a		2X2	6680 a
	28% Nitrogen	3 AL		12 gal/a	12 gal/a		2X2	
	Mn chelate	AL		1 qt/a	1 qt/a		2X2	
	B chelate	AL		1 qt/a	1 qt/a		2X2	
	WATER	AL		2 gal/a	2 gal/a		2X2	
	28% Nitrogen	3 AL		102 lb ai/a	34 gal/a		2-4LF	
6	10-34-0	AL		3 gal/a	3 gal/a		2X2	16.3 abc
	L-CBF BOOST	AL		2 gal/a	2 gal/a		2X2	239 ab
	28% Nitrogen	3 AL		12 gal/a	12 gal/a		2X2	6907 a
	Mn chelate	AL		1 qt/a	1 qt/a		2X2	
	B chelate	AL		1 qt/a	1 qt/a		2X2	
	WATER	AL		1 gal/a	1 gal/a		2X2	
	28% Nitrogen	3 AL		102 lb ai/a	34 gal/a		2-4LF	
7	10-34-0	AL		4 gal/a	4 gal/a		2X2	16.1 abc
	28% Nitrogen	3 AL		12 gal/a	12 gal/a		2X2	237 ab
	Mn chelate	AL		1 qt/a	1 qt/a		2X2	7606 a
	B chelate	AL		1 qt/a	1 qt/a		2X2	
	WATER	AL		2 gal/a	2 gal/a		2X2	
	L-CBF BOOST	AL		3 gal/a	3 gal/a		2-4LF	
	28% Nitrogen	3 AL		93 lb ai/a	31 gal/a		2-4LF	
8	L-CBF 7-21-3	AL		4 gal/a	4 gal/a		2X2	16.5 a
	28% Nitrogen	3 AL		12 gal/a	12 gal/a		2X2	244 a
	Mn chelate	AL		1 qt/a	1 qt/a		2X2	6905 a
	B chelate	AL		1 qt/a	1 qt/a		2X2	
	WATER	AL		2 gal/a	2 gal/a		2X2	
	L-CBF BOOST	AL		3 gal/a	3 gal/a		2-4LF	
	28% Nitrogen	3 AL		93 lb ai/a	31 gal/a		2-4LF	
9	10-34-0	AL		3 gal/a	3 gal/a		2X2	16.3 ab
	L-CBF BOOST	AL		2 gal/a	2 gal/a		2X2	238 ab
	28% Nitrogen	3 AL		12 gal/a	12 gal/a		2X2	6385 a
	Mn chelate	AL		1 qt/a	1 qt/a		2X2	
	B chelate	AL		1 qt/a	1 qt/a		2X2	
	WATER	AL		1 gal/a	1 gal/a		2X2	
	L-CBF BOOST	AL		3 gal/a	3 gal/a		2-4LF	
	28% Nitrogen	3 AL		93 lb ai/a	31 gal/a		2-4LF	

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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-17-2018	Oct-17-2018	Oct-17-2018
Rating Type								LBS RWSA
Rating Unit								POUNDS
Crop Stage Scale						HARVEST	HARVEST	HARVEST
ARM Action Codes						ET10	AL	T2
Number of Decimals						1	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Other Rate	Other Rate Unit	Growth Stage	
10	28% Nitrogen WATER	3 AL	AL	12 gal/a 4.5 gal/a	12 gal/a 4.5 gal/a	2X2 2X2	10	11
	28% Nitrogen	3 AL	AL	126 lb ai/a	42 gal/a	2-4LF	16.5	243 a
11	28% Nitrogen WATER	3 AL	AL	12 gal/a 6.5 gal/a	12 gal/a 6.5 gal/a	2X2 2X2	15.4 d	224 c
	28% Nitrogen	3 AL	AL	147 lb ai/a	49 gal/a	2-4LF		6161 a
LSD P=.10							0.51	10.0 - 10.5
Standard Deviation							0.42	0.0t
CV							2.61	0.66t
Replicate F							0.634	2.509
Replicate Prob(F)							0.6000	0.0784
Treatment F							2.054	1.889
Treatment Prob(F)							0.0733	0.0885
								3.060
								0.0438
								0.857
								0.5810

Crop Code
 BEAVA, BSUG, Beta vulgaris vulg. altissima, Sugarbeet = US
ARM Action Codes
 ET10 = Excluded treatment 10
 AL = Automatic log transformation of X+1
 T2 = [c5]*[11]

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