

MSU Soil Fertility Research Program

SUGAR BEET RESPONSE TO NITROGEN FOLLOWING CORN, 2012

Trial ID: BV01-12 Location: SVRF Trial Year:
 Protocol ID: BV01-12 Investigator: Kurt Steinke
 Project ID: BV01-12 Study Director:
 Sponsor Contact:

Crop Code							BEAVA
Crop Name							Sugarbeet
Crop Variety							Hilleshog 9042
Description							harvest
Rating Date							Oct-5-2012
Rating Type							YIELD
Rating Unit							T-US
Crop Stage Scale							
ARM Action Codes							TY1
Number of Decimals							1
Trt No.	Treatment Name	Rate	Other Rate	Other Rate Unit	Growth Stage	Appl Code	
							52
3	80 lbs TOTAL N					A	30.2 a
	P205-PHOS	20 lb ai/a	44.4 lb/a		2x2PL	A	
	K20-POTASH	50 lb ai/a	81 lb/a		2x2PL	A	
	MANGANESE	2 lb/a	2 lb/a		2x2PL	A	
	28 % NITROGEN	40 lb ai/a			2x2PL	A	
	UREA 46-0-0	40 lb ai/a	87 lb/a		2-4 LF	B	
4	120 lbs TOTAL N					A	32.5 a
	P205-PHOS	20 lb ai/a	44.4 lb/a		2x2PL	A	
	K20-POTASH	50 lb ai/a	81 lb/a		2x2PL	A	
	MANGANESE	2 lb/a	2 lb/a		2x2PL	A	
	28 % NITROGEN	40 lb ai/a			2x2PL	A	
	UREA 46-0-0	80 lb ai/a	174 lb/a		2-4 LF	B	
12	80 lbs TOTAL N					A	29.7 a
	P205-PHOS	20 lb ai/a	44.4 lb/a		2x2PL	A	
	K20-POTASH	50 lb ai/a	81 lb/a		2x2PL	A	
	MANGANESE	2 lb/a	2 lb/a		2x2PL	A	
	28 % NITROGEN	40 lb ai/a			2x2PL	A	
	UREA 46-0-0	30 lb ai/a	65 lb/a		2-4 LF	B	
	WE N DEMAND	1 gal/a	1 gal/a		M MAY	C	
	WE N DEMAND	1 gal/a	1 gal/a		L MAY	D	
	WE N DEMAND	1 gal/a	1 gal/a		M JUNE	E	
13	80 lbs TOTAL N					A	30.0 a
	P205-PHOS	20 lb ai/a	44.4 lb/a		2x2PL	A	
	K20-POTASH	50 lb ai/a	81 lb/a		2x2PL	A	
	MANGANESE	2 lb/a	2 lb/a		2x2PL	A	
	28 % NITROGEN	40 lb ai/a			2x2PL	A	
	UREA 46-0-0	20 lb ai/a	43.5 lb/a		2-4 LF	B	
	WE N DEMAND	2 gal/a	2 gal/a		M MAY	C	
	WE N DEMAND	2 gal/a	2 gal/a		L MAY	D	
	WE N DEMAND	2 gal/a	2 gal/a		M JUNE	E	
14	120 lbs TOTAL N					A	32.0 a
	P205-PHOS	20 lb ai/a	44.4 lb/a		2x2PL	A	
	K20-POTASH	50 lb ai/a	81 lb/a		2x2PL	A	
	MANGANESE	2 lb/a	2 lb/a		2x2PL	A	
	28 % NITROGEN	40 lb ai/a			2x2PL	A	
	UREA 46-0-0	70 lb ai/a	152 lb/a		2-4 LF	B	
	WE N DEMAND	1 gal/a	1 gal/a		M MAY	C	
	WE N DEMAND	1 gal/a	1 gal/a		L MAY	D	
	WE N DEMAND	1 gal/a	1 gal/a		M JUNE	E	

Means followed by same letter do not significantly differ (P=.05, LSD)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Rating Date							Oct-5-2012
Rating Type							YIELD
Rating Unit							T-US
Crop Stage Scale							
ARM Action Codes							TY1
Number of Decimals							1
Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Growth Unit Stage	Appl Code	
15	120 lbs TOTAL N					A	52
	P205-PHOS	20 lb ai/a	44.4 lb/a		2x2PL	A	32.0 a
	K20-POTASH	50 lb ai/a	81 lb/a		2x2PL	A	
	MANGANESE	2 lb/a	2 lb/a		2x2PL	A	
	28 % NITROGEN	40 lb ai/a	17.1 gal/a		2x2PL	A	
	UREA 46-0-0	60 lb ai/a	130 lb/a		2-4 LF	B	
	WE N DEMAND	2 gal/a	2 gal/a		M MAY	C	
	WE N DEMAND	2 gal/a	2 gal/a		L MAY	D	
	WE N DEMAND	2 gal/a	2 gal/a		M JUNE	E	
LSD (P=.05)							3.97
Standard Deviation							2.63
CV							8.47

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Randomized Complete Block (RCB) AOV For BEAVA Sugarbeet Hilleshog 9042 harvest Oct-5-2012 YIELD T-US TY1 1 (Data Column 52)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	23	171.066050			
Replicate	3	36.851593	12.283864	1.770	0.1961
Treatment	5	30.091772	6.018354	0.867	0.5256
Error	15	104.122686	6.941512		

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*[C52]