

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	Growth Stage	Appl Code	
		Rate Unit	Rate	Rate	Unit		52
1	CHECK					A	26.2 d
	0 lbs TOTAL N					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	
2	40 lbs TOTAL N					A	28.9 cd
	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	
3	80 lbs TOTAL N					A	30.2 bc
	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 ab
	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	
5	160 lbs TOTAL N					A	35.5 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	120 lb ai/a	260 lb/a		2-4 LF	B	
6	200 lbs TOTAL N					A	34.8 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	160 lb ai/a	348 lb/a		2-4 LF	B	

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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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	Growth Stage	Appl Code
7	240 lbs TOTAL N					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	200 lb ai/a	435 lb/a		2-4 LF	B
LSD (P=.05)						3.51
Standard Deviation						2.36
CV						7.41

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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	27	430.694218			
Replicate	3	26.495971	8.831990	1.584	0.2281
Treatment	6	303.826908	50.637818	9.081	0.0001
Error	18	100.371340	5.576186		

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]