

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
2	40 lbs TOTAL N					A	28.9 c
	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 abc
	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	
10	120 lbs TOTAL N					A	32.0 abc
	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	
	ESN	80 lb ai/a	182 lb/a		PREPLNT	F	

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.

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 Unit Stage	Appl Code	
		Rate Unit	Rate	Rate			52
11	200 lbs TOTAL N					A	33.9 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	
	ESN	160 lb ai/a	364 lb/a		PREPLNT	F	
LSD (P=.05)							3.89
Standard Deviation							2.62
CV							8.05

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:

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	290.568914			
Replicate	3	28.936696	9.645565	1.407	0.2733
Treatment	6	138.205722	23.034287	3.359	0.0212
Error	18	123.426496	6.857028		

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]