

MSU Soil Fertility Research Program

SUGARBEET RESPONSE TO NITROGEN FOLLOWING CORN

Trial ID: BV01-14 Location: SVRF Trial Year: 2014
 Protocol ID: BV01-14 Investigator: Kurt Steinke
 Project ID: SIDEDRESS

Crop Code							BEAVA	BEAVA	
Crop Name							Sugarbeet	Sugarbeet	
Crop Variety							Crystal RR059	Crystal RR059	
Description							Yield	RWSA	
Rating Date							Oct-6-2014	Oct-6-2014	
Rating Type							YIELD		
Rating Unit							T-US	pounds/A	
Crop Stage Scale							Harvest		
ARM Action Codes							ET4 TY2	ET7 T4	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Other Rate	Other Rate Unit	Growth Stage		
							13		23
1	CHECK						26.4 c		7668 c
	P205-PHOS	45	GR	20 lb ai/a	44.4 lb/a				
	K2O 0-0-62	62	GR	50 lb ai/a	81 lb/a				
	Manganese	27	GR	2 lb ai/a	7.4 lb/a				
2	P205-PHOS	45	GR	20 lb ai/a	44.4 lb/a		32.8 b		9377 b
	K2O 0-0-62	62	GR	50 lb ai/a	81 lb/a				
	Manganese	27	GR	2 lb ai/a	7.4 lb/a				
	28% Nitrogen	3	AL	40 lb ai/a	13.3 gal/a				
3	P205-PHOS	45	GR	20 lb ai/a	44.4 lb/a		33.0 b		9336 b
	K2O 0-0-62	62	GR	50 lb ai/a	81 lb/a				
	Manganese	27	GR	2 lb ai/a	7.4 lb/a				
	28% Nitrogen	3	AL	40 lb ai/a	13.3 gal/a				
	Urea 46-0-0	46	GR	40 lb ai/a	87 lb/a				
4	P205-PHOS	45	GR	20 lb ai/a	44.4 lb/a		34.6		9653 b
	K2O 0-0-62	62	GR	50 lb ai/a	81 lb/a				
	Manganese	27	GR	2 lb ai/a	7.4 lb/a				
	28% Nitrogen	3	AL	40 lb ai/a	13.3 gal/a				
	Urea 46-0-0	46	GR	80 lb ai/a	174 lb/a				
5	P205-PHOS	45	GR	20 lb ai/a	44.4 lb/a		40.7 a		11448 a
	K2O 0-0-62	62	GR	50 lb ai/a	81 lb/a				
	Manganese	27	GR	2 lb ai/a	7.4 lb/a				
	28% Nitrogen	3	AL	40 lb ai/a	13.3 gal/a				
	Urea 46-0-0	46	GR	120 lb ai/a	260 lb/a				
6	P205-PHOS	45	GR	20 lb ai/a	44.4 lb/a		43.0 a		12131 a
	K2O 0-0-62	62	GR	50 lb ai/a	81 lb/a				
	Manganese	27	GR	2 lb ai/a	7.4 lb/a				
	28% Nitrogen	3	AL	40 lb ai/a	13.3 gal/a				
	Urea 46-0-0	46	GR	160 lb ai/a	348 lb/a				
7	P205-PHOS	45	GR	20 lb ai/a	44.4 lb/a		42.8 a		11281
	K2O 0-0-62	62	GR	50 lb ai/a	81 lb/a				
	Manganese	27	GR	2 lb ai/a	7.4 lb/a				
	28% Nitrogen	3	AL	40 lb ai/a	13.3 gal/a				
	Urea 46-0-0	46	GR	200 lb ai/a	435 lb/a				
LSD P=.10							3.27	1291.3	
Standard Deviation							2.63	1036.8	
CV							7.21	10.44	
Bartlett's X2							0.57	3.107	
P(Bartlett's X2)							0.989	0.683	
Skewness							-0.4587	-0.0581	
Kurtosis							-0.8792	-0.9171	
Replicate F							1.609	0.952	
Replicate Prob(F)							0.2321	0.4422	
Treatment F							26.217	9.672	
Treatment Prob(F)							0.0001	0.0004	

Crop Code

Means followed by same letter 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=13,23

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BEAVA, BSUG, Beta vulgaris vulg. altissima, = US

Rating Type

YIELD = yield

Rating Unit

T-US = ton (short=2000 lb)

ARM Action Codes

ET4 = Excluded treatment 4

ET7 = Excluded treatment 7

TY2 = 0.1244571*[C12]

T4 = [c13]*[c22]