

MSU Soil Fertility Research Program

THE EFFECTS OF N ZONE IN SUGARBEET

Trial ID: BV02-14 Location: SVRF Trial Year: 2014
 Investigator: Kurt Steinke
 Project ID: NZONEBV

Crop Code							BEAVA	BEAVA	BEAVA		
Crop Name							Sugarbeet	Sugarbeet	Sugarbeet		
Crop Variety							Crystal RR059	Crystal RR059	Crystal RR059		
Description							Yield	% Sugar	RWSA		
Rating Date							Oct-6-2014	Oct-6-2014	Oct-6-2014		
Rating Type							YIELD				
Rating Unit							T-US		pounds/A		
Crop Stage Scale							Harvest				
ARM Action Codes							TY1		T2		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Other Rate	Other Rate	Growth Unit	Stage			
4									4	10	14
1	CHECK								22.4 b	17.7335 a	6013 c
	P205-PHOS	45	GR	20 lb ai/a	44.4 lb/a			2X2PL			
	K2O 0-0-62	62	GR	50 lb ai/a	81 lb/a			2X2PL			
	Manganese	27	GR	2 lb ai/a	7.4 lb/a			2X2PL			
2	N ZONE urea	46	GR	110 lb ai/a	240 lb/a			PRE	33.2 a	17.2962 a	8665 b
	28 % Nitrogen	3	AL	40 lb ai/a	13.3 gal/a			2X2PL			
	P205-PHOS	45	GR	20 lb ai/a	44.4 lb/a			2X2PL			
	K2O 0-0-62	62	GR	50 lb ai/a	81 lb/a			2X2PL			
	Manganese	27	GR	2 lb ai/a	7.4 lb/a			2X2PL			
3	N ZONE urea	46	GR	70 lb ai/a	152 lb/a			PRE	33.3 a	17.7444 a	8995 b
	28 % Nitrogen	3	AL	40 lb ai/a	13.3 gal/a			2X2PL			
	P205-PHOS	45	GR	20 lb ai/a	44.4 lb/a			2X2PL			
	K2O 0-0-62	62	GR	50 lb ai/a	81 lb/a			2X2PL			
	Manganese	27	GR	2 lb ai/a	7.4 lb/a			2X2PL			
4	Urea 46-0-0	46	GR	110 lb ai/a	240 lb/a			PRE	37.8 a	18.1450 a	10423 a
	28 % Nitrogen	3	AL	40 lb ai/a	13.3 gal/a			2X2PL			
	P205-PHOS	45	GR	20 lb ai/a	44.4 lb/a			2X2PL			
	K2O 0-0-62	62	GR	50 lb ai/a	81 lb/a			2X2PL			
	Manganese	27	GR	2 lb ai/a	7.4 lb/a			2X2PL			
5	Urea 46-0-0	46	GR	70 lb ai/a	152 lb/a			PRE	37.1 a	16.9500 a	9541 ab
	28 % Nitrogen	3	AL	40 lb ai/a	13.3 gal/a			2X2PL			
	P205-PHOS	45	GR	20 lb ai/a	44.4 lb/a			2X2PL			
	K2O 0-0-62	62	GR	50 lb ai/a	81 lb/a			2X2PL			
	Manganese	27	GR	2 lb ai/a	7.4 lb/a			2X2PL			
LSD (P=.10)							4.74	0.76500	1344.2		
Standard Deviation							3.70	0.59706	1049.1		
CV							11.31	3.4	12.02		
Bartlett's X2							1.578	1.383	2.188		
P(Bartlett's X2)							0.813	0.847	0.701		
Skewness							-0.3606	0.0759	0.2648		
Kurtosis							0.0203	-0.1547	0.3505		
Replicate F							2.257	12.209	6.770		
Replicate Prob(F)							0.1443	0.0011	0.0090		
Treatment F							11.061	2.376	9.976		
Treatment Prob(F)							0.0011	0.1217	0.0016		

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*[C3]
 T2 = [C4]*[C13]

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=4,10,14