

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
5	P205-PHOS	45	GR	20 lb ai/a	44.4 lb/a		2X2PL	40.7 a	11448 a
	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		
	28% Nitrogen	3	AL	40 lb ai/a	13.3 gal/a		2X2PL		
	Urea 46-0-0	46	GR	120 lb ai/a	260 lb/a		SD2-4lf		
8	P205-PHOS	45	GR	20 lb ai/a	44.4 lb/a		2X2PL	39.5 a	11095 a
	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		
	28% Nitrogen	3	AL	40 lb ai/a	13.3 gal/a		2X2PL		
	ESN 44-0-0	44	GR	120 lb ai/a	273 lb/a		PPI		
9	P205-PHOS	45	GR	20 lb ai/a	44.4 lb/a		2X2PL	38.4 a	10806 a
	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		
	28% Nitrogen	3	AL	40 lb ai/a	13.3 gal/a		2X2PL		
	ESN 44-0-0	44	GR	90 lb ai/a	205 lb/a		PPI		
	Urea 46-0-0	46	GR	30 lb ai/a	65 lb/a		PPI		
10	P205-PHOS	45	GR	20 lb ai/a	44.4 lb/a		2X2PL	38.3 a	10835 a
	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		
	28% Nitrogen	3	AL	40 lb ai/a	13.3 gal/a		2X2PL		
	ESN 44-0-0	44	GR	60 lb ai/a	136 lb/a		PPI		
	Urea 46-0-0	46	GR	60 lb ai/a	130 lb/a		PPI		
11	P205-PHOS	45	GR	20 lb ai/a	44.4 lb/a		2X2PL	38.2 a	10650 a
	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		
	28% Nitrogen	3	AL	40 lb ai/a	13.3 gal/a		2X2PL		
	ESN 44-0-0	44	GR	30 lb ai/a	68 lb/a		PPI		
	Urea 46-0-0	46	GR	90 lb ai/a	196 lb/a		PPI		
LSD P=.10							2.43	746.4	
Standard Deviation							1.91	587.7	
CV							4.9	5.36	
Bartlett's X2							0.417	1.959	
P(Bartlett's X2)							0.981	0.743	
Skewness							0.3343	-0.1954	
Kurtosis							0.7802	-0.2121	
Replicate F							2.400	1.930	
Replicate Prob(F)							0.1233	0.1833	
Treatment F							1.305	1.133	
Treatment Prob(F)							0.3274	0.3906	

Crop Code
 BEAVA, BSUG, Beta vulgaris vulg. altissima, = US
Rating Type
 YIELD = yield
Rating Unit
 T-US = ton (short=2000 lb)
ARM Action Codes

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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ET4 = Excluded treatment 4
ET7 = Excluded treatment 7
TY2 = 0.1244571*[C12]
T4 = [c13]*[c22]