

MSU Soil Fertility Research Program

COMPARISONS OF POP UP FERTILIZER TREATMENTS IN SUGARBEET

Trial ID: BV07-14 Location: SVRF Trial Year: 2014

Investigator: Kurt Steinke

Project ID: POPUP

Crop Code							BEAVA	BEAVA	BEAVA	
Crop Name							Sugarbeet	Sugarbeet	Sugarbeet	
Crop Variety							Hillshog 179	Hillshog 179	Hillshog 179	
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							ET3 TY1	ET2	T3	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Other Rate	Other Rate Unit	Growth Stage			
							8	14	18	
1	28% Nitrogen Urea 46-0-0	3 46	SC GR	40 lb ai/a 120 lb ai/a	13.3 gal/a 260 lb/a		2X2PL SD2-4LF	37.1 a	16.7760 a	9346 a
2	10-34-0 H2O Urea 46-0-0	SL 46	SL GR	3 gal/a 4 gal/a 157 lb ai/a	3 gal/a 4 gal/a 340 lb/a		POPUP POPUP SD2-4LF	36.7 a	17.4285	9696 a
3	10-34-0 H2O Urea 46-0-0	SL 46	SL GR	5 gal/a 2 gal/a 154 lb ai/a	5 gal/a 2 gal/a 335 lb/a		POPUP POPUP SD2-4LF	40.4	16.5020 a	9945 a
4	10-34-0 Urea 46-0-0	SL 46	SL GR	7 gal/a 152 lb ai/a	7 gal/a 330 lb/a		POPUP SD2-4LF	34.4 a	16.7370 a	8625 a
5	6-24-6 H2O Urea 46-0-0	SL 46	SL GR	2 gal/a 5 gal/a 159 lb ai/a	2 gal/a 5 gal/a 346 lb/a		POPUP POPUP SD2-4LF	36.8 a	16.7883 a	9312 a
6	6-24-6 H2O Urea 46-0-0	SL 46	SL GR	4 gal/a 3 gal/a 157 lb ai/a	4 gal/a 3 gal/a 340 lb/a		POPUP POPUP SD2-4LF	37.1 a	16.9540 a	9455 a
7	9-18-9 H2O Urea 46-0-0	SL 46	SL GR	2 gal/a 5 gal/a 158 lb ai/a	2 gal/a 5 gal/a 343 lb/a		POPUP POPUP SD2-4LF	36.7 a	16.8700 a	9283 a
8	9-18-9 H2O Urea 46-0-0	SL 46	SL GR	4 gal/a 3 gal/a 156 lb ai/a	4 gal/a 3 gal/a 340 lb/a		POPUP POPUP SD2-4LF	38.0 a	17.2180 a	9861 a
LSD (P=.10)							4.48	0.68741	1184.8	
Standard Deviation							3.65	0.56063	973.6	
CV							9.96	3.33	10.31	
Bartlett's X2							2.035	5.447	8.514	
P(Bartlett's X2)							0.916	0.488	0.289	
Skewness							-0.808	0.2226	-0.8228	
Kurtosis							-0.3731	-1.2279	0.3748	
Replicate F							5.376	0.594	5.854	
Replicate Prob(F)							0.0081	0.6270	0.0045	
Treatment F							0.355	0.611	0.731	
Treatment Prob(F)							0.8974	0.7184	0.6484	

Crop Code

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

Rating Type

YIELD = yield

Rating Unit

T-US = ton (short=2000 lb)

ARM Action Codes

ET3 = Excluded treatment 3

ET2 = Excluded treatment 2

TY1 = 0.1244571*[C7]

T3 = [C8]*[C17]

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.