

MSU Soil Fertility Research Program
 RESPONSE OF SUGARBEETS TO VARIOUS K AND B SOURCES APPLIED IN THE SPRING
 Trial ID: BV06-19 Location: SVREC Trial Year: 2019
 Investigator: Kurt Steinke
 Project ID: MOSPRGBEET

| Crop Code | | | | | | BEAVA | BEAVA | BEAVA | |
|--------------------|----------------|-----------|-----------|----------------|-----------------|--------------|-------------|-------------|----------|
| Crop Name | | | | | | Sugarbeet | Sugarbeet | Sugarbeet | |
| Crop Variety | | | | | | Crystal 675 | Crystal 675 | Crystal 675 | |
| Description | | | | | | RWST | % Sugar | RWSA | |
| Rating Date | | | | | | Oct-11-2019 | Oct-11-2019 | Oct-11-2019 | |
| Rating Type | | | | | | YIELD | YIELD | LBS RWSA | |
| Rating Unit | | | | | | POUNDS | PERCENT | POUNDS | |
| Crop Stage Scale | | | | | | HARVEST | HARVEST | HARVEST | |
| ARM Action Codes | | | | | | ET2 | ET2 | T2 | |
| Number of Decimals | | | | | | | | 0 | |
| Trt No. | Treatment Name | Form Conc | Form Type | Rate Rate Unit | Other Rate Unit | Growth Stage | 9 | 11 | 13 |
| 1 | CHECK | | | | | | 276.35 b | 18.10 a | 7389 d |
| | 10-34-0 | AL | | 3 gal/a | 3 gal/a | IN FUR | | | |
| | Water | AL | | 3 gal/a | 3 gal/a | IN FUR | | | |
| | 28% Nitrogen | 3 AL | | 40 lb ai/a | 13.3 gal/a | 2X2PL | | | |
| | 28% Nitrogen | 3 AL | | 140 lb ai/a | 46.7 gal/a | SD2-4lf | | | |
| 2 | MOP 0-0-62 | 62 GR | | 180 lb ai/a | 290 lb/a | PPI | 283.61 | 18.64 | 8147 bc |
| | 10-34-0 | AL | | 3 gal/a | 3 gal/a | IN FUR | | | |
| | Water | AL | | 3 gal/a | 3 gal/a | IN FUR | | | |
| | 28% Nitrogen | 3 AL | | 40 lb ai/a | 13.3 gal/a | 2X2PL | | | |
| | 28% Nitrogen | 3 AL | | 140 lb ai/a | 46.7 gal/a | SD2-4lf | | | |
| 3 | MAP 11-52-0 | 52 GR | | 40 lb ai/a | 77 lb/a | PPI | 280.28 ab | 18.50 a | 8681 ab |
| | MOP 0-0-62 | 62 GR | | 180 lb ai/a | 290 lb/a | PPI | | | |
| | 10-34-0 | AL | | 3 gal/a | 3 gal/a | IN FUR | | | |
| | Water | AL | | 3 gal/a | 3 gal/a | IN FUR | | | |
| | 28% Nitrogen | 3 AL | | 40 lb ai/a | 13.3 gal/a | 2X2PL | | | |
| | 28% Nitrogen | 3 AL | | 140 lb ai/a | 46.7 gal/a | SD2-4lf | | | |
| 4 | MESZ | 40 GR | | 40 lb ai/a | 100 lb/a | PPI | 279.19 ab | 18.31 a | 8853 a |
| | MOP 0-0-62 | 62 GR | | 180 lb ai/a | 290 lb/a | PPI | | | |
| | 10-34-0 | AL | | 3 gal/a | 3 gal/a | IN FUR | | | |
| | Water | AL | | 3 gal/a | 3 gal/a | IN FUR | | | |
| | 28% Nitrogen | 3 AL | | 40 lb ai/a | 13.3 gal/a | 2X2PL | | | |
| | 28% Nitrogen | 3 AL | | 140 lb ai/a | 46.7 gal/a | SD2-4lf | | | |
| 5 | MAP 11-52-0 | 52 GR | | 40 lb ai/a | 77 lb/a | PPI | 285.76 a | 18.70 a | 8310 abc |
| | Aspire | 58 GR | | 90 lb ai/a | 155 lb/a | PPI | | | |
| | MOP 0-0-62 | 62 GR | | 90 lb ai/a | 145 lb/a | PPI | | | |
| | 28% Nitrogen | 3 AL | | 40 lb ai/a | 13.3 gal/a | 2X2PL | | | |
| | 10-34-0 | AL | | 3 gal/a | 3 gal/a | IN FUR | | | |
| | Water | AL | | 3 gal/a | 3 gal/a | IN FUR | | | |
| | 28% Nitrogen | 3 AL | | 140 lb ai/a | 46.7 gal/a | SD2-4lf | | | |
| 6 | MESZ | 40 GR | | 40 lb ai/a | 100 lb/a | PPI | 284.26 a | 18.65 a | 8358 abc |
| | Aspire | 58 GR | | 90 lb ai/a | 155 lb/a | PPI | | | |
| | MOP 0-0-62 | 62 GR | | 90 lb ai/a | 145 lb/a | PPI | | | |
| | 10-34-0 | AL | | 3 gal/a | 3 gal/a | IN FUR | | | |
| | Water | AL | | 3 gal/a | 3 gal/a | IN FUR | | | |
| | 28% Nitrogen | 3 AL | | 40 lb ai/a | 13.3 gal/a | 2X2PL | | | |
| | 28% Nitrogen | 3 AL | | 140 lb ai/a | 46.7 gal/a | SD2-4lf | | | |

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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| Crop Code | | | | | | | BEAVA | BEAVA | BEAVA | |
|--------------------|----------------|-----------|-----------|----------------|------------|-----------------|--------------|-------------|-------------|---------|
| Crop Name | | | | | | | Sugarbeet | Sugarbeet | Sugarbeet | |
| Crop Variety | | | | | | | Crystal 675 | Crystal 675 | Crystal 675 | |
| Description | | | | | | | RWST | % Sugar | RWSA | |
| Rating Date | | | | | | | Oct-11-2019 | Oct-11-2019 | Oct-11-2019 | |
| Rating Type | | | | | | | YIELD | YIELD | LBS RWSA | |
| Rating Unit | | | | | | | POUNDS | PERCENT | POUNDS | |
| Crop Stage Scale | | | | | | | HARVEST | HARVEST | HARVEST | |
| ARM Action Codes | | | | | | | ET2 | ET2 | T2 | |
| Number of Decimals | | | | | | | | | 0 | |
| Trt No. | Treatment Name | Form Conc | Form Type | Rate Rate Unit | Other Rate | Other Rate Unit | Growth Stage | 9 | 11 | 13 |
| 7 | MAP 11-52-0 | 52 | GR | 20 lb ai/a | 38.5 lb/a | | PPI | 276.62 b | 18.18 a | 7763 cd |
| | EXPCRG | 28 | GR | 20 lb ai/a | 71.4 lb/a | | PPI | | | |
| | MOP 0-0-62 | 62 | GR | 180 lb ai/a | 290 lb/a | | PPI | | | |
| | 10-34-0 | | AL | 3 gal/a | 3 gal/a | | IN FUR | | | |
| | Water | | AL | 3 gal/a | 3 gal/a | | IN FUR | | | |
| | 28% Nitrogen | 3 | AL | 40 lb ai/a | 13.3 gal/a | | 2X2PL | | | |
| | 28% Nitrogen | 3 | AL | 140 lb ai/a | 46.7 gal/a | | SD2-4lf | | | |
| 8 | MAP 11-52-0 | 52 | GR | 30 lb ai/a | 57.7 lb/a | | PPI | 275.34 b | 18.22 a | 7431 d |
| | EXPCRG | 28 | GR | 10 lb ai/a | 35.7 lb/a | | PPI | | | |
| | MOP 0-0-62 | 62 | GR | 180 lb ai/a | 290 lb/a | | PPI | | | |
| | 10-34-0 | | AL | 3 gal/a | 3 gal/a | | IN FUR | | | |
| | Water | | AL | 3 gal/a | 3 gal/a | | IN FUR | | | |
| | 28% Nitrogen | 3 | AL | 40 lb ai/a | 13.3 gal/a | | 2X2PL | | | |
| | 28% Nitrogen | 3 | AL | 140 lb ai/a | 46.7 gal/a | | SD2-4lf | | | |
| LSD P=.10 | | | | | | | | 6.711 | 0.426 | 699.6 |
| Standard Deviation | | | | | | | | 5.473 | 0.348 | 574.9 |
| CV | | | | | | | | 1.96 | 1.89 | 7.08 |
| Replicate F | | | | | | | | 13.368 | 10.993 | 15.846 |
| Replicate Prob(F) | | | | | | | | 0.0001 | 0.0002 | 0.0001 |
| Treatment F | | | | | | | | 2.178 | 1.879 | 3.600 |
| Treatment Prob(F) | | | | | | | | 0.0938 | 0.1399 | 0.0105 |

Crop Code
 BEAVA, BSUG, Beta vulgaris vulg. altissima, Sugarbeet = US
Rating Type
 YIELD = yield
Rating Unit
 PERCENT = percent
ARM Action Codes
 ET2 = Excluded treatment 2
 T2 = [C8]*[C9]

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 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.