

MSU Soil Fertility Research Program

CORN RESPONSE TO PHOSPHORUS

Trial ID: CSV09-17

Location: SVRF Trial Year: 2017

Investigator: Kurt Steinke

Project ID: PHOSCORN

| Crop Code | ZEAMX | | | | | | | | | |
|--------------------|----------------|-------------|--------------|-------------|------------|-------------------|--------|---------|---------|--------|
| Crop Name | Corn | | | | | | | | | |
| Crop Variety | DKC 51-38 | | | | | | | | | |
| Description | DRY WEIGHT | %moist | TstWt | YIELD | | | | | | |
| Rating Date | Jul-24-2017 | Oct-12-2017 | Oct-12-2017 | Oct-12-2017 | | | | | | |
| Rating Type | DRY WEIGHT | | | BU | | | | | | |
| Rating Unit | g | percent | lbs/bu | Hvst | | | | | | |
| Crop Stage Scale | R1 | Hvst | Hvst | TY1 | | | | | | |
| ARM Action Codes | | | | 0 | | | | | | |
| Number of Decimals | 1 | | | 0 | | | | | | |
| Trt No. | Treatment Name | Form Type | Rate | Other Rate | Other Rate | Growth Unit Stage | 1 | 3 | 4 | 5 |
| 1 | Check | | | | | | 73.8 a | 16.68 a | 55.03 a | 178 b |
| | Urea 46-0-0 | GR | 110 lb ai/a | 240 lb/a | | PPI | | | | |
| | 28% Nitrogen | AL | 60 lb ai/a | 20 gal/a | | SDV3-4 | | | | |
| 2 | MAP 11-52-0 | GR | 95 lb ai/a | 183 lb/a | | PPI | 69.1 a | 16.03 a | 55.15 a | 178 b |
| | Urea 46-0-0 | GR | 90 lb ai/a | 196 lb/a | | PPI | | | | |
| | 28% Nitrogen | AL | 60 lb ai/a | 20 gal/a | | SDV3-4 | | | | |
| 3 | MOP 0-0-62 | GR | 72.5 lb ai/a | 117 lb/a | | PPI | 65.7 a | 16.70 a | 54.73 a | 194 a |
| | Urea 46-0-0 | GR | 110 lb ai/a | 240 lb/a | | PPI | | | | |
| | 28% Nitrogen | AL | 60 lb ai/a | 20 gal/a | | SDV3-4 | | | | |
| LSD P=.05 | | | | | | | 21.11 | 2.232 | 1.474 | 10.6 |
| Standard Deviation | | | | | | | 12.20 | 1.290 | 0.852 | 6.1 |
| CV | | | | | | | 17.54 | 7.84 | 1.55 | 3.33 |
| Replicate F | | | | | | | 0.815 | 0.450 | 0.070 | 11.112 |
| Replicate Prob(F) | | | | | | | 0.5309 | 0.7266 | 0.9736 | 0.0073 |
| Treatment F | | | | | | | 0.450 | 0.352 | 0.263 | 9.346 |
| Treatment Prob(F) | | | | | | | 0.6574 | 0.7169 | 0.7771 | 0.0143 |

Crop Code

ZEAMX, BCOR, Zea mays, Corn = US

Rating Type

YIELD = yield

Rating Unit

g = gram

BU = bushel

ARM Action Codes

TY1 = 3.889286*[2]*(100-[3])/84.5

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)

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