

MSU Soil Fertility Research Program
 RESPONSE OF CORN TO MOP, MAP AND MES
 Trial ID: CEL06-17 Location: Campus Trial Year: 2017
 Investigator: Kurt Steinke
 Project ID: MODAPCORN

| Crop Code Crop Name Crop Variety | | | | | | ZEAMX Corn PO157AMX | ZEAMX Corn PO157AMX | ZEAMX Corn PO157AMX |
|--|-----------------|-----------|-------------|------------|------------|---------------------------|---------------------------|---------------------------|
| Description | | | | | | | plant/200sqft | |
| Rating Date | | | | | | Oct-5-2017 | Oct-9-2017 | Oct-9-2017 |
| Rating Type | | | | | | LODGIN | Stand Count | YIELD |
| Rating Unit | | | | | | % Failed | NUMBER | BU |
| Crop Stage Scale | | | | | | | HARVEST | HARVEST |
| ARM Action Codes | | | | | | | T2 | TY1 |
| Number of Decimals | | | | | | 0 | 0 | 0 |
| Trt No. | Treatment Name | Form Type | Rate | Other Rate | Other Rate | Growth Unit | Stage | |
| 1 | K2O 0-0-62 | GR | 60 lb ai/a | 97 lb/a | | PPI | | 0 a |
| | Urea 46-0-0 | GR | 175 lb ai/a | 380 lb/a | | PPI | | 153 a |
| 2 | K2O 0-0-62 | GR | 60 lb ai/a | 97 lb/a | | PPI | | 0 a |
| | MAP 11-52-0 | GR | 80 lb ai/a | 154 lb/a | | PPI | | 150 a |
| | Urea 46-0-0 | GR | 158 lb ai/a | 343 lb/a | | PPI | | 156 cd |
| 3 | K2O 0-0-62 | GR | 60 lb ai/a | 97 lb/a | | PPI | | 0 a |
| | MAP 11-52-0 | GR | 80 lb ai/a | 154 lb/a | | PPI | | 149 a |
| | AS (21-0-0-24S) | GR | 20 lb ai/a | 83 lb/a | | PPI | | 182 ab |
| | Urea 46-0-0 | GR | 139 lb ai/a | 302 lb/a | | PPI | | |
| 4 | K2O 0-0-62 | GR | 60 lb ai/a | 97 lb/a | | PPI | | 0 a |
| | MAP 11-52-0 | GR | 80 lb ai/a | 154 lb/a | | PPI | | 145 a |
| | AS (21-0-0-24S) | GR | 20 lb ai/a | 83 lb/a | | PPI | | 179 abc |
| | ZnSO4 | GR | 2 lb ai/a | 5.56 lb/a | | PPI | | |
| | Urea 46-0-0 | GR | 139 lb ai/a | 302 lb/a | | PPI | | |
| 5 | K2O 0-0-62 | GR | 60 lb ai/a | 97 lb/a | | PPI | | 0 a |
| | DAP 18-46-0 | GR | 80 lb ai/a | 174 lb/a | | PPI | | 151 a |
| | Urea 46-0-0 | GR | 144 lb ai/a | 313 lb/a | | PPI | | 177 abc |
| 6 | K2O 0-0-62 | GR | 60 lb ai/a | 97 lb/a | | PPI | | 0 a |
| | DAP 18-46-0 | GR | 80 lb ai/a | 174 lb/a | | PPI | | 150 a |
| | AS (21-0-0-24S) | GR | 20 lb ai/a | 83 lb/a | | PPI | | 193 a |
| | Urea 46-0-0 | GR | 126 lb ai/a | 274 lb/a | | PPI | | |
| 7 | K2O 0-0-62 | GR | 60 lb ai/a | 97 lb/a | | PPI | | 0 a |
| | DAP 18-46-0 | GR | 80 lb ai/a | 174 lb/a | | PPI | | 151 a |
| | AS (21-0-0-24S) | GR | 20 lb ai/a | 83 lb/a | | PPI | | 171 a-d |
| | ZnSO4 | GR | 2 lb ai/a | 5.56 lb/a | | PPI | | |
| | Urea 46-0-0 | GR | 126 lb ai/a | 274 lb/a | | PPI | | |
| 8 | K2O 0-0-62 | GR | 60 lb ai/a | 97 lb/a | | PPI | | 0 a |
| | MES10 | GR | 80 lb ai/a | 200 lb/a | | PPI | | 150 a |
| | Urea 46-0-0 | GR | 151 lb ai/a | 328 lb/a | | PPI | | 175 abc |
| 9 | K2O 0-0-62 | GR | 60 lb ai/a | 97 lb/a | | PPI | | 0 a |
| | MESZ | GR | 80 lb ai/a | 200 lb/a | | PPI | | 148 a |
| | Urea 46-0-0 | GR | 151 lb ai/a | 328 lb/a | | PPI | | 165 bcd |

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.
 Could not calculate LSD (% mean diff) for columns 1 because error mean square = 0.

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| | | | | | | | |
|--------------------|----------------|-----------|-------------|------------|------------|---------------|------------|
| Crop Code | ZEAMX | | | | | ZEAMX | ZEAMX |
| Crop Name | Corn | | | | | Corn | Corn |
| Crop Variety | PO157AMX | | | | | PO157AMX | PO157AMX |
| Description | | | | | | plant/200sqft | |
| Rating Date | Oct-5-2017 | | | | | Oct-9-2017 | Oct-9-2017 |
| Rating Type | LODGIN | | | | | Stand Count | YIELD |
| Rating Unit | % Failed | | | | | NUMBER | BU |
| Crop Stage Scale | | | | | | HARVEST | HARVEST |
| ARM Action Codes | | | | | | T2 | TY1 |
| Number of Decimals | 0 | | | | | 0 | 0 |
| Trt No. | Treatment Name | Form Type | Rate | Other Rate | Other Rate | Growth Unit | Stage |
| 1 | | | | | | | |
| | 10 K2O 0-0-62 | GR | 60 lb ai/a | 97 lb/a | | PPI | |
| | EXP45 | GR | 80 lb ai/a | 178 lb/a | | PPI | |
| | Urea 46-0-0 | GR | 154 lb ai/a | 335 lb/a | | PPI | |
| LSD P=.05 | | | | | | 4.5 | 24.6 |
| Standard Deviation | | | | | | 0.0 | 16.9 |
| CV | | | | | | 0.0 | 9.89 |
| Replicate F | | | | | | 0.000 | 25.442 |
| Replicate Prob(F) | | | | | | 1.0000 | 0.0001 |
| Treatment F | | | | | | 0.000 | 2.425 |
| Treatment Prob(F) | | | | | | 1.0000 | 0.0363 |

Crop Code
 ZEAMX, BCOR, Zea mays, Corn = US
Rating Type
 LODGIN = lodging
 YIELD = yield
Rating Unit
 NUMBER = number
 BU = bushel
ARM Action Codes
 T2 = [c2]+[c3]
 TY1 = 3.889286*[C5]*(100-[C6])/84.5

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