

MSU Soil Fertility Research Program

DRY AND LIQUID FERTILIZER PROGRAMS IN POTATO

Trial ID: PMRF03-15 Location: MRF Trial Year: 2015

Investigator: Kurt Steinke

Project ID: LIQUIDPOT

| Crop Code | Crop Name | Crop Variety | Description | Rating Date | Rating Type | Rating Unit | Crop Stage | Scale | SOLTU Potato FL 2137 harvest Sep-15-2015 YIELD/B's CWT | SOLTU Potato FL 2137 harvest Sep-15-2015 YIELD/OS CWT | SOLTU Potato FL 2137 harvest Sep-15-2015 YIELD/A's CWT | SOLTU Potato FL 2137 harvest Sep-15-2015 Total Yield CWT |
|--------------------|----------------|--------------|-------------|-------------|-------------|-------------|-------------|---------|--|---|--|--|
| Trt No. | Treatment Name | Form Conc | Form Type | Rate Rate | Other Rate | Other Rate | Growth Unit | Stage | 43 | 44 | 45 | 46 |
| 1 | MAP 11-52-0 | 52 GR | | 120 lb ai/a | 230 lb/a | | | APFRBND | 11.5 a | 27.5 a | 333.6 a | 372.6 a |
| | K2O 0-0-62 | 62 GR | | 100 lb ai/a | 161 lb/a | | | APFRBND | | | | |
| | K2O 0-0-62 | 62 GR | | 50 lb ai/a | 81 lb/a | | | PPI | | | | |
| | AS (21-0-0)-N | 21 GR | | 75 lb ai/a | 357 lb/a | | | EMBAND | | | | |
| | Urea 46-0-0 | 46 GR | | 25 lb ai/a | 54.3 lb/a | | | APFRBND | | | | |
| | Micro-500 | AL | | 2 qt/a | 2 qt/a | | | APFRBND | | | | |
| | Urea 46-0-0 | 46 GR | | 150 lb ai/a | 326 lb/a | | | BHILL | | | | |
| 2 | K2O 0-0-62 | 62 GR | | 100 lb ai/a | 161 lb/a | | | APFRBND | 13.4 a | 28.8 a | 349.7 a | 391.8 a |
| | K2O 0-0-62 | 62 GR | | 50 lb ai/a | 81 lb/a | | | PPI | | | | |
| | MAP 11-52-0 | 52 GR | | 40 lb ai/a | 77 lb/a | | | APFRBND | | | | |
| | 10-34-0 | AL | | 20 gal/a | 20 gal/a | | | APFRBND | | | | |
| | 28% Nitrogen | 3 AL | | 10 gal/a | 10 gal/a | | | APFRBND | | | | |
| | Micro-500 | AL | | 2 qt/a | 2 qt/a | | | APFRBND | | | | |
| | AS (21-0-0)-N | 21 GR | | 70 lb ai/a | 333 lb/a | | | EMBAND | | | | |
| | 28% Nitrogen | 3 AL | | 48 gal/a | 48 gal/a | | | BHILL | | | | |
| 3 | K2O 0-0-62 | 62 GR | | 100 lb ai/a | 161 lb/a | | | APFRBND | 13.2 a | 32.2 a | 339.1 a | 384.5 a |
| | K2O 0-0-62 | 62 GR | | 50 lb ai/a | 81 lb/a | | | PPI | | | | |
| | Urea 46-0-0 | 46 GR | | 38 lb ai/a | 83 lb/a | | | APFRBND | | | | |
| | Pro-Germ | AL | | 12 gal/a | 12 gal/a | | | APFRBND | | | | |
| | Micro-500 | AL | | 2 qt/a | 2 qt/a | | | APFRBND | | | | |
| | AS (21-0-0)-N | 21 GR | | 75 lb ai/a | 357 lb/a | | | EMBAND | | | | |
| | Urea 46-0-0 | 46 GR | | 150 lb ai/a | 326 lb/a | | | BHILL | | | | |
| 4 | K2O 0-0-62 | 62 GR | | 100 lb ai/a | 161 lb/a | | | APFRBND | 18.6 a | 27.0 a | 333.7 a | 379.3 a |
| | Pro-Germ | AL | | 12 gal/a | 12 gal/a | | | APFRBND | | | | |
| | High NRG-N | AL | | 10 gal/a | 10 gal/a | | | APFRBND | | | | |
| | Sure-K | AL | | 5 gal/a | 5 gal/a | | | APFRBND | | | | |
| | Micro-500 | AL | | 2 qt/a | 2 qt/a | | | APFRBND | | | | |
| | AS (21-0-0)-N | 21 GR | | 75 lb ai/a | 357 lb/a | | | EMBAND | | | | |
| | 28%+ eNhance | 3 AL | | 50 gal/a | 50 gal/a | | | BHILL | | | | |
| | eNhance40ml/g | AL | | | | | | BHILL | | | | |
| 5 | K2O 0-0-62 | 62 GR | | 100 lb ai/a | 161 lb/a | | | APFRBND | 16.7 a | 18.5 | 363.0 a | 398.3 a |
| | Pro-Germ | AL | | 12 gal/a | 12 gal/a | | | APFRBND | | | | |
| | High NRG-N | AL | | 10 gal/a | 10 gal/a | | | APFRBND | | | | |
| | Kalibrate | AL | | 5 gal/a | 5 gal/a | | | APFRBND | | | | |
| | Micro-500 | AL | | 2 qt/a | 2 qt/a | | | APFRBND | | | | |
| | AS (21-0-0)-N | 21 GR | | 75 lb ai/a | 357 lb/a | | | EMBAND | | | | |
| | 28%+ eNhance | 3 AL | | 50 gal/a | 50 gal/a | | | BHILL | | | | |
| | eNhance40ml/g | AL | | | | | | BHILL | | | | |
| LSD P=.10 | | | | | | | | | 5.46 | 8.10 | 31.20 | 28.61 |
| Standard Deviation | | | | | | | | | 4.33 | 6.25 | 24.76 | 22.70 |
| CV | | | | | | | | | 29.54 | 21.63 | 7.2 | 5.89 |
| Replicate F | | | | | | | | | 2.020 | 2.918 | 1.446 | 1.294 |
| Replicate Prob(F) | | | | | | | | | 0.1650 | 0.0929 | 0.2785 | 0.3213 |
| Treatment F | | | | | | | | | 1.790 | 0.552 | 1.031 | 0.797 |
| Treatment Prob(F) | | | | | | | | | 0.1957 | 0.6596 | 0.4306 | 0.5498 |

Crop Code

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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SOLTU, BPOT, Solanum tuberosum, = US

Rating Unit

CWT = hundredweight (u.s.=100 lb)

ARM Action Codes

TY1 = 7.329632*[C33]

TY2 = 7.329632*[C35]

TY4 = 7.329632*[C39]

T3 = [C43]+[C44]+[C45]