

## MSU Soil Fertility Research Program

## EFFECTIVENESS OF CRYSTAL GREEN AS P SOURCE IN POTATO PRODUCTION

Trial ID: PMRF04-15 Location: MRF Trial Year: 15  
Investigator: Kurt Steinke  
Project ID: OstCrysPot

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 O/S 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 Treatment No. Name	Form Conc	Form Type	Rate Rate Unit	Other Other Rate Rate Unit	Growth Stage	58	59	60	61
1 CHECK Urea 46-0-0 K2O 0-0-62 K2O 0-0-62 AS (21-0-0)-N Urea 46-0-0	46 62 62 21 46	GR GR GR GR GR	25 lb ai/a 100 lb ai/a 100 lb ai/a 66 lb ai/a 134 lb ai/a	54.3 lb/a 161 lb/a 161 lb/a 314 lb/a 290 lb/a	APBAND PPI APBAND EMBAND BHILL	10.7 a	3.6 a	328.2 a	349.1 a
2 MAP 11-52-0 K2O 0-0-62 K2O 0-0-62 AS (21-0-0)-N Urea 46-0-0	52 62 62 21 46	GR GR GR GR GR	231 lb/a 100 lb ai/a 100 lb ai/a 66 lb ai/a 134 lb ai/a	231 lb/a 161 lb/a 161 lb/a 314 lb/a 290 lb/a	APBAND PPI APBAND EMBAND BHILL	12.6 a	2.8 a	323.1 a	342.5 a
3 Crystal Green MAP 11-52-0 K2O 0-0-62 K2O 0-0-62 AS (21-0-0)-N Urea 46-0-0	28 52 62 62 21 46	GR GR GR GR GR GR	107 lb/a 173 lb/a 100 lb ai/a 100 lb ai/a 66 lb ai/a 134 lb ai/a	107 lb/a 173 lb/a 161 lb/a 161 lb/a 314 lb/a 290 lb/a	APBAND APBAND PPI APBAND EMBAND BHILL	14.1 a	9.0 a	309.6 a	339.8 a
4 Crystal Green MAP 11-52-0 K2O 0-0-62 K2O 0-0-62 AS (21-0-0)-N Urea 46-0-0	28 52 62 62 21 46	GR GR GR GR GR GR	214 lb/a 115 lb/a 100 lb ai/a 100 lb ai/a 66 lb ai/a 134 lb ai/a	214 lb/a 115 lb/a 161 lb/a 161 lb/a 314 lb/a 290 lb/a	APBAND APBAND PPI APBAND EMBAND BHILL	12.4 a	0.9 a	326.3 a	342.0 a
5 Crystal Green MAP 11-52-0 Urea 46-0-0 K2O 0-0-62 K2O 0-0-62 AS (21-0-0)-N Urea 46-0-0	28 52 46 62 62 21 46	GR GR GR GR GR GR GR	80 lb/a 130 lb/a 7 lb ai/a 100 lb ai/a 100 lb ai/a 66 lb ai/a 134 lb ai/a	80 lb/a 130 lb/a 15.2 lb/a 161 lb/a 161 lb/a 314 lb/a 290 lb/a	APBAND APBAND APBAND PPI APBAND EMBAND BHILL	14.5 a	0.0 a	332.4 a	346.8 a
6 161 Crystal Green MAP 11-52-0 Urea 46-0-0 K2O 0-0-62 K2O 0-0-62 AS (21-0-0)-N Urea 46-0-0	GR 52 46 62 62 21 46	GR GR GR GR GR GR GR	161 lb/a 87 lb/a 7 lb ai/a 100 lb ai/a 100 lb ai/a 66 lb ai/a 134 lb ai/a	161 lb/a 87 lb/a 15.2 lb/a 161 lb/a 161 lb/a 314 lb/a 290 lb/a	APBAND APBAND APBAND PPI APBAND EMBAND BHILL	11.7 a	4.0 a	308.7 a	334.3 a
LSD P=.10						6.68	8.44 - 10.25	23.11	25.40
Standard Deviation						5.39	0.64t	18.65	20.49
CV						42.57	119.06t	5.8	5.98
Replicate F						0.147	1.123	9.116	7.511
Replicate Prob(F)						0.9298	0.3713	0.0011	0.0027
Treatment F						0.279	1.184	1.136	0.261
Treatment Prob(F)						0.9174	0.3629	0.3840	0.9275

Crop Code

Means followed by same letter or symbol do not significantly differ (P=.10, LSD)  
t=Mean descriptions are reported in transformed data units, and are not de-transformed.  
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 =  $7.321094 * [C48]$

TY2 =  $\text{LOG}([59] + 1)$

TY3 =  $7.32187 * [C54]$

T4 =  $[C58] + [C59] + [C60]$