

MSU Soil Fertility Research Program

RESPONSE OF MICHIGAN POTATO TO MAP AND OSTERA

Trial ID: PMRF02-14 Location: MRF Trial Year: 2014

Investigator: Kurt Steinke

Project ID: OstaraPOT

Crop Code Crop Name Crop Variety Description Rating Date Rating Type Rating Unit ARM Action Codes							SOLTU Potato FL 2137 harvest Sep-17-2014 YIELD/B's CWT TY2	SOLTU Potato FL 2137 harvest Sep-17-2014 YIELD/OS CWT TY3	SOLTU Potato FL 2137 harvest Sep-17-2014 YIELD/A'S CWT TY4	SOLTU Potato FL 2137 harvest Sep-17-2014 Total Yield CWT T5	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Other Rate	Other Rate Unit	Growth Stage	65	66	67	68
1	CHECK							6.2 d	30.3 a	162.9 d	199.4 c
	Urea 46-0-0	46	GR	25 lb ai/a	54.3 lb/a		APBAND				
	K2O 0-0-62	62	GR	75 lb ai/a	121 lb/a		PPI				
	K2O 0-0-62	62	GR	100 lb ai/a	161 lb/a		APBAND				
	AS (21-0-0)-N	21	GR	83 lb ai/a	395 lb/a		EMBAND				
	Urea 46-0-0	46	GR	167 lb ai/a	363 lb/a		BHILL				
2	MAP 11-52-0	52	GR	231 lb/a	231 lb/a		APBAND	9.6 bc	53.6 a	242.1 ab	305.2 ab
	K2O 0-0-62	62	GR	75 lb ai/a	121 lb/a		PPI				
	K2O 0-0-62	62	GR	100 lb ai/a	161 lb/a		APBAND				
	AS (21-0-0)-N	21	GR	83 lb ai/a	395 lb/a		EMBAND				
	Urea 46-0-0	46	GR	167 lb ai/a	363 lb/a		BHILL				
3	Crystal Green	28	GR	107 lb/a	107 lb/a		APBAND	15.5 a	81.0 a	224.7 bc	321.1 ab
	MAP 11-52-0	52	GR	173 lb/a	173 lb/a		APBAND				
	K2O 0-0-62	62	GR	75 lb ai/a	121 lb/a		PPI				
	K2O 0-0-62	62	GR	100 lb ai/a	161 lb/a		APBAND				
	AS (21-0-0)-N	21	GR	83 lb ai/a	395 lb/a		EMBAND				
	Urea 46-0-0	46	GR	167 lb ai/a	363 lb/a		BHILL				
4	Crystal Green	28	GR	43 lb/a	43 lb/a		APBAND	11.3 b	55.5 a	225.5 bc	292.2 b
	MAP 11-52-0	52	GR	208 lb/a	208 lb/a		APBAND				
	K2O 0-0-62	62	GR	75 lb ai/a	121 lb/a		PPI				
	K2O 0-0-62	62	GR	100 lb ai/a	161 lb/a		APBAND				
	AS (21-0-0)-N	21	GR	83 lb ai/a	395 lb/a		EMBAND				
	Urea 46-0-0	46	GR	167 lb ai/a	363 lb/a		BHILL				
5	CG15-MAP85		GR	39 lb/a	39 lb/a		APBAND	12.6 ab	67.6 a	273.9 a	354.2 a
	MAP 11-52-0	52	GR	196 lb/a	196 lb/a		APBAND				
	K2O 0-0-62	62	GR	75 lb ai/a	121 lb/a		PPI				
	K2O 0-0-62	62	GR	100 lb ai/a	161 lb/a		APBAND				
	AS (21-0-0)-N	21	GR	83 lb ai/a	395 lb/a		EMBAND				
	Urea 46-0-0	46	GR	167 lb ai/a	363 lb/a		BHILL				
6	CG9-MAP91		GR	23 lb/a	23 lb/a		APBAND	9.9 bc	77.4 a	244.8 ab	332.0 ab
	MAP 11-52-0	52	GR	210 lb/a	210 lb/a		APBAND				
	K2O 0-0-62	62	GR	75 lb ai/a	121 lb/a		PPI				
	K2O 0-0-62	62	GR	100 lb ai/a	161 lb/a		APBAND				
	AS (21-0-0)-N	21	GR	83 lb ai/a	395 lb/a		EMBAND				
	Urea 46-0-0	46	GR	167 lb ai/a	363 lb/a		BHILL				
7	Crystal Green	28	GR	161 lb/a	161 lb/a		APBAND	7.3 cd	77.1 a	196.8 cd	281.2 b
	MAP 11-52-0	52	GR	87 lb/a	87 lb/a		APBAND				
	K2O 0-0-62	62	GR	75 lb ai/a	121 lb/a		PPI				
	Urea 46-0-0	46	GR	7 lb ai/a	15.2 lb/a		APBAND				
	K2O 0-0-62	62	GR	100 lb ai/a	161 lb/a		APBAND				
	AS (21-0-0)-N	21	GR	83 lb ai/a	395 lb/a		EMBAND				
	Urea 46-0-0	46	GR	167 lb ai/a	363 lb/a		BHILL				

Means followed by same letter 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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Trial ID: PMRF02-14 Location: MRF Trial Year: 2014

Investigator: Kurt Steinke

Project ID: OstaraPOT

Crop Code						SOLTU	SOLTU	SOLTU	SOLTU		
Crop Name						Potato	Potato	Potato	Potato		
Crop Variety						FL 2137	FL 2137	FL 2137	FL 2137		
Description						harvest	harvest	harvest	harvest		
Rating Date						Sep-17-2014	Sep-17-2014	Sep-17-2014	Sep-17-2014		
Rating Type						YIELD/B's	YIELD/OS	YIELD/A'S	Total Yield		
Rating Unit						CWT	CWT	CWT	CWT		
ARM Action Codes						TY2	TY3	TY4	T5		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Other Rate Unit	Other Rate Unit	Growth Stage	65	66	67	68
8	Crystal Green	28	GR	80 lb/a	80 lb/a		APBAND	12.6 ab	50.2 a	260.2 ab	323.0 ab
	MAP 11-52-0	52	GR	130 lb/a	130 lb/a		APBAND				
	K2O 0-0-62	62	GR	75 lb ai/a	121 lb/a		PPI				
	Urea 46-0-0	46	GR	7 lb ai/a	15.2 lb/a		APBAND				
	K2O 0-0-62	62	GR	100 lb ai/a	161 lb/a		APBAND				
	AS (21-0-0)-N	21	GR	83 lb ai/a	395 lb/a		EMBAND				
	Urea 46-0-0	46	GR	167 lb ai/a	363 lb/a		BHILL				
LSD (P=.10)						3.27	35.04	39.09	57.55		
Standard Deviation						2.69	28.79	32.12	47.29		
CV						25.34	46.76	14.04	15.71		
Bartlett's X2						5.015	10.802	7.632	4.219		
P(Bartlett's X2)						0.658	0.148	0.366	0.754		
Skewness						0.0203	0.6637	-0.3895	-0.4184		
Kurtosis						-0.4149	-0.1762	-0.1792	-0.2602		
Replicate F						4.252	0.270	2.114	1.077		
Replicate Prob(F)						0.0170	0.8466	0.1289	0.3802		
Treatment F						5.063	1.458	4.898	3.956		
Treatment Prob(F)						0.0017	0.2355	0.0021	0.0066		

Crop Code

SOLTU, BPOT, Solanum tuberosum, = US

Rating Unit

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

ARM Action Codes

TY2 = 7.329632*[C52]

TY3 = 7.329632*[C54]

TY4 = 7.329632*[C58]

T5 = [C65]+[C66]+[C67]