

MSU Soil Fertility Research Program

RESPONSE OF POTATO WITH AGROCOTE N AND AGROCOTE K

Trial ID: PMRF03-16 Location: MRF Trial Year: 2016

Investigator: Kurt Steinke

Project ID: ICLPOT

Crop Code Crop Name Crop Variety Description Rating Date Rating Type Rating Unit Crop Stage Scale							SOLTU Potato FL 2137 harvest Sep-20-2016 YIELD B'S CWT	SOLTU Potato FL 2137 harvest Sep-20-2016 YIELD OS CWT	SOLTU Potato FL 2137 harvest Sep-20-2016 YIELD A'S CWT	SOLTU Potato FL 2137 harvest Sep-20-2016 Total Yield CWT
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Other Rate Rate Unit	Growth Stage	50	51	52	53
1	TSP-PHOS	45 GR		80 lb ai/a	178 lb/a	APBAND	18.1 a	63.2 a	284.5 e	365.7 a
	MOP 0-0-62	62 GR		140 lb ai/a	226 lb/a	PPI				
	MOP 0-0-62	62 GR		100 lb ai/a	161 lb/a	APBAND				
	GYP SUM	16 GR		500 lb/a	500 lb/a	PPI				
	Urea 46-0-0	46 GR		25 lb ai/a	54.3 lb/a	APBAND				
	Urea 46-0-0	46 GR		66 lb ai/a	143 lb/a	EMBAND				
	Urea 46-0-0	46 GR		134 lb ai/a	290 lb/a	BHILL				
	MOP 0-0-62	62 GR		60 lb ai/a	97 lb/a	BHILL				
2	TSP-PHOS	45 GR		80 lb ai/a	178 lb/a	APBAND	18.8 a	58.3 a	319.1 de	396.2 a
	MOP 0-0-62	62 GR		140 lb ai/a	226 lb/a	PPI				
	MOP 0-0-62	62 GR		100 lb ai/a	161 lb/a	APBAND				
	GYP SUM	16 GR		500 lb/a	500 lb/a	PPI				
	Urea 46-0-0	46 GR		25 lb ai/a	54.3 lb/a	APBAND				
	Urea 46-0-0	46 GR		50 lb ai/a	109 lb/a	EMBAND				
	Urea 46-0-0	46 GR		100 lb ai/a	217 lb/a	BHILL				
	MOP 0-0-62	62 GR		60 lb ai/a	97 lb/a	BHILL				
3	TSP-PHOS	45 GR		80 lb ai/a	178 lb/a	APBAND	21.4 a	46.1 a	326.6 cd	394.2 a
	MOP 0-0-62	62 GR		80 lb ai/a	129 lb/a	PPI				
	MOP 0-0-62	62 GR		100 lb ai/a	161 lb/a	APBAND				
	GYP SUM	16 GR		500 lb/a	500 lb/a	PPI				
	Urea 46-0-0	46 GR		25 lb ai/a	54.3 lb/a	APBAND				
	Urea 46-0-0	46 GR		66 lb ai/a	143 lb/a	EMBAND				
	Urea 46-0-0	46 GR		134 lb ai/a	290 lb/a	BHILL				
	MOP 0-0-62	62 GR		45 lb ai/a	72.6 lb/a	BHILL				
4	TSP-PHOS	45 GR		80 lb ai/a	178 lb/a	APBAND	19.8 a	51.7 a	330.5 bcd	402.0 a
	Urea 46-0-0	46 GR		25 lb ai/a	54.3 lb/a	APBAND				
	Agrocote N	42 GR		200 lb ai/a	476 lb/a	EMBAND				
	MOP 0-0-62	62 GR		200 lb ai/a	323 lb/a	PPI				
	MOP 0-0-62	62 GR		100 lb ai/a	161 lb/a	APBAND				
5	TSP-PHOS	45 GR		80 lb ai/a	178 lb/a	APBAND	19.0 a	39.6 a	355.6 bcd	414.2 a
	Urea 46-0-0	46 GR		25 lb ai/a	54.3 lb/a	APBAND				
	Agrocote N	42 GR		150 lb ai/a	357 lb/a	EMBAND				
	MOP 0-0-62	62 GR		200 lb ai/a	323 lb/a	PPI				
	MOP 0-0-62	62 GR		100 lb ai/a	161 lb/a	APBAND				
6	TSP-PHOS	45 GR		80 lb ai/a	178 lb/a	APBAND	22.6 a	42.8 a	397.8 a	463.1 a
	Urea 46-0-0	46 GR		25 lb ai/a	54.3 lb/a	APBAND				
	Agrocote N	42 GR		200 lb ai/a	476 lb/a	EMBAND				
	K2O Agrocote	58 GR		200 lb ai/a	345 lb/a	PPI				
	K2O Agrocote	58 GR		100 lb ai/a	172 lb/a	APBAND				
7	TSP-PHOS	45 GR		80 lb ai/a	178 lb/a	APBAND	25.4 a	28.0 a	368.3 ab	427.7 a
	Urea 46-0-0	46 GR		25 lb ai/a	54.3 lb/a	APBAND				
	Agrocote N	42 GR		150 lb ai/a	357 lb/a	EMBAND				
	K2O Agrocote	58 GR		200 lb ai/a	345 lb/a	PPI				
	K2O Agrocote	58 GR		100 lb ai/a	172 lb/a	APBAND				

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.
 Missing data estimates are included in columns: Yates=50,51; Average=53

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							SOLTU	SOLTU	SOLTU	SOLTU	
							Potato	Potato	Potato	Potato	
							FL 2137	FL 2137	FL 2137	FL 2137	
							harvest	harvest	harvest	harvest	
							Sep-20-2016	Sep-20-2016	Sep-20-2016	Sep-20-2016	
							YIELD B'S	YIELD OS	YIELD A'S	Total Yield	
							CWT	CWT	CWT	CWT	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Other Rate	Other Rate Unit	Growth Stage	50	51	52	53
8	TSP-PHOS	45	GR	80 lb ai/a	178 lb/a		APBAND	22.3 a	47.2 a	366.7 abc	436.2 a
	Urea 46-0-0	46	GR	25 lb ai/a	54.3 lb/a		APBAND				
	Agrocote N	42	GR	200 lb ai/a	476 lb/a		EMBAND				
	K2O Agrocote	58	GR	125 lb ai/a	216 lb/a		PPI				
	K2O Agrocote	58	GR	100 lb ai/a	172 lb/a		APBAND				
9	TSP-PHOS	45	GR	80 lb ai/a	178 lb/a		APBAND	29.8 a	40.7 a	367.3 ab	440.4 a
	Urea 46-0-0	46	GR	25 lb ai/a	54.3 lb/a		APBAND				
	Agrocote N	42	GR	150 lb ai/a	357 lb/a		EMBAND				
	K2O Agrocote	58	GR	125 lb ai/a	216 lb/a		PPI				
	K2O Agrocote	58	GR	100 lb ai/a	172 lb/a		APBAND				
LSD P=.10							6.99	24.47	40.33	53.33	
Standard Deviation							5.77	20.15	33.33	43.83	
CV							26.32	43.44	9.63	10.55	
Replicate F							0.307	0.762	1.814	1.300	
Replicate Prob(F)							0.8199	0.5272	0.1716	0.3008	
Treatment F							1.680	1.083	4.174	1.809	
Treatment Prob(F)							0.1573	0.4105	0.0030	0.1319	

Crop Code

SOLTU, BPOT, Solanum tuberosum, = US

Rating Unit

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

ARM Action Codes

TY1 = 7.329632*[40]

TY2 = 7.329632*[42]

TY3 = 7.329632*[46]

T4 = [C50]+[C51]+[C52]