

MSU Soil Fertility Research Program

EVALUATION OF THE RESPONSE OF POTATO TO VARIOUS K AND P SOURCES

Trial ID: PMRF02-16 Location: MRF Trial Year: 2016

Investigator: Kurt Steinke

Project ID: MOPO

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-20-2016	Sep-20-2016	Sep-20-2016	Sep-20-2016	
Rating Type							YIELD B'S	YIELD OS	YIELD A'S	Total Yield	
Rating Unit							CWT	CWT	CWT	CWT	
Crop Stage Scale											
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Other Rate	Other Rate Unit	Growth Stage	50	51	52	53
1	Check							19.6 a	27.6 a	337.7 a	385 a
	Urea 46-0-0	46	GR	25 lb ai/a	54.3 lb/a		APBAND				
	AS (21-0-0)-N	21	GR	66 lb ai/a	314 lb/a		EMBAND				
	Urea 46-0-0	46	GR	134 lb ai/a	290 lb/a		BHILL				
2	MAP 11-52-0	52	GR	80 lb ai/a	154 lb/a		APBAND	17.0 a	41.3 a	355.0 a	413 a
	Urea 46-0-0	46	GR	8 lb ai/a	17.4 lb/a		APBAND				
	AS (21-0-0)-N	21	GR	66 lb ai/a	314 lb/a		EMBAND				
	Urea 46-0-0	46	GR	134 lb ai/a	290 lb/a		BHILL				
3	MAP 11-52-0	52	GR	80 lb ai/a	154 lb/a		APBAND	14.7 a	55.6 a	337.9 a	408 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				
	MOP 0-0-62	62	GR	60 lb ai/a	97 lb/a		BHILL				
	Urea 46-0-0	46	GR	8 lb ai/a	17.4 lb/a		APBAND				
	AS (21-0-0)-N	21	GR	66 lb ai/a	314 lb/a		EMBAND				
	Urea 46-0-0	46	GR	134 lb ai/a	290 lb/a		BHILL				
4	MAP 11-52-0	52	GR	80 lb ai/a	154 lb/a		APBAND	11.2 a	65.2 a	303.3 a	380 a
	Aspire	58	GR	140 lb ai/a	241 lb/a		PPI				
	Aspire	58	GR	100 lb ai/a	172 lb/a		APBAND				
	Aspire	58	GR	60 lb ai/a	103 lb/a		BHILL				
	Urea 46-0-0	46	GR	8 lb ai/a	17.4 lb/a		APBAND				
	AS (21-0-0)-N	21	GR	66 lb ai/a	314 lb/a		EMBAND				
	Urea 46-0-0	46	GR	134 lb ai/a	290 lb/a		BHILL				
5	MESZ	40	GR	80 lb ai/a	200 lb/a		APBAND	17.2 a	40.6 a	314.0 a	372 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				
	MOP 0-0-62	62	GR	60 lb ai/a	97 lb/a		BHILL				
	AS (21-0-0)-N	21	GR	66 lb ai/a	314 lb/a		EMBAND				
	Urea 46-0-0	46	GR	134 lb ai/a	290 lb/a		BHILL				
6	MESZ	40	GR	80 lb ai/a	200 lb/a		APBAND	16.9 a	67.2 a	321.0 a	405 a
	Aspire	58	GR	140 lb ai/a	241 lb/a		PPI				
	Aspire	58	GR	100 lb ai/a	172 lb/a		APBAND				
	Aspire	58	GR	60 lb ai/a	103 lb/a		BHILL				
	AS (21-0-0)-N	21	GR	66 lb ai/a	314 lb/a		EMBAND				
	Urea 46-0-0	46	GR	134 lb ai/a	290 lb/a		BHILL				
LSD P=.10							7.06	35.42	31.45	49.0	
Standard Deviation							5.69	28.57	25.37	39.6	
CV							35.34	57.63	7.73	10.04	
Replicate F							1.048	0.597	5.379	2.625	
Replicate Prob(F)							0.4001	0.6265	0.0103	0.0886	
Treatment F							1.007	1.199	2.205	0.753	
Treatment Prob(F)							0.4474	0.3563	0.1081	0.5967	

Crop Code

SOLTU, BPOT, Solanum tuberosum, = US

Rating Unit

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

ARM Action Codes

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.

MSU Soil Fertility Research Program

EVALUATION OF THE RESPONSE OF POTATO TO VARIOUS K AND P SOURCES

Trial ID: PMRF02-16      Location: MRF    Trial Year: 2016  
Investigator: Kurt Steinke  
Project ID: MOPO

TY1 = 7.329632\*[40]  
TY2 = 7.329632\*[42]  
TY3 = 7.329632\*[46]  
T4 = [C50]+[C51]+[C52]