

MSU Soil Fertility Research Program

NU TRAX POTATO WITH COMPASS

Trial ID: PMRF04-16 Location: MRF Trial Year: 2016
 Investigator: Kurt Steinke
 Project ID: NUTRAXPOT

Crop Code						SOLTU	SOLTU	SOLTU	
Crop Name						Potato	Potato	Potato	
Crop Variety						FL 2137	FL 2137	FL 2137	
Description						harvest	harvest	harvest	
Rating Date						Sep-20-2016	Sep-20-2016	Sep-20-2016	
Rating Type						YIELD B'S	YIELD OS	YIELD A'S	
Rating Unit						CWT	CWT	CWT	
Crop Stage Scale									
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Other Rate Unit	Growth Stage	50	51	52
1	TSP-PHOS	45	GR	80 lb ai/a	178 lb/a	APBAND	20.1 a	25.9 a	302.9 c
	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			
	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			
	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	21.4 a	33.1 a	314.7 bc
	MOP 0-0-62	62	GR	140 lb ai/a	226 lb/a	PPI			
	Nu-Trax P+	25	GR	2 lb/a	2 lb/a	APBAND			
	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			
	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			
	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	22.1 a	39.4 a	354.3 a
	K-SULFATE 0-0-50	50	GR	140 lb ai/a	280 lb/a	PPI			
	K-SULFATE 0-0-50	50	GR	100 lb ai/a	200 lb/a	APBAND			
	Nu-Trax P+	25	GR	2 lb/a	2 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			
	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			
	K-SULFATE 0-0-50	50	GR	60 lb ai/a	120 lb/a	BHILL			
4	TSP-PHOS	45	GR	80 lb ai/a	178 lb/a	APBAND	23.0 a	45.3 a	353.0 a
	K-SULFATE 0-0-50	50	GR	140 lb ai/a	280 lb/a	PPI			
	K-SULFATE 0-0-50	50	GR	100 lb ai/a	200 lb/a	APBAND			
	Nu-Trax P+	25	GR	2 lb/a	2 lb/a	APBAND			
	Boron DDP	18.5	GR	0.9 lb/a	0.9 lb/a	PPI			
	Iron DDP	47	GR	0.25 lb/a	0.25 lb/a	PPI			
	Copper DDP	57.5	GR	0.20 lb/a	0.2 lb/a	PPI			
	Magnesium DDP	30	DU	0.40 lb/a	0.40 lb/a	PPI			
	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			
	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			
	K-SULFATE 0-0-50	50	GR	60 lb ai/a	120 lb/a	BHILL			

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	SOLTU	SOLTU	
						Potato	Potato	Potato	
						FL 2137	FL 2137	FL 2137	
						harvest	harvest	harvest	
						Sep-20-2016	Sep-20-2016	Sep-20-2016	
						YIELD B'S	YIELD OS	YIELD A'S	
						CWT	CWT	CWT	
Crop Code									
Crop Name									
Crop Variety									
Description									
Rating Date									
Rating Type									
Rating Unit									
Crop Stage Scale									
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Other Rate Rate Unit	Growth Stage	50	51	52
5	TSP-PHOS	45	GR	80 lb ai/a	178 lb/a	APBAND	18.0 a	43.6 a	342.7 ab
	K-SULFATE 0-0-50	50	GR	140 lb ai/a	280 lb/a	PPI			
	K-SULFATE 0-0-50	50	GR	100 lb ai/a	200 lb/a	APBAND			
	Nu-Trax P+	25	GR	2 lb/a	2 lb/a	APBAND			
	Boron DDP	18.5	GR	0.9 lb/a	0.9 lb/a	APBAND			
	Iron DDP	47	GR	0.25 lb/a	0.25 lb/a	APBAND			
	Copper DDP	57.5	GR	0.20 lb/a	0.2 lb/a	APBAND			
	Magnesium DDP	30	DU	0.40 lb/a	0.40 lb/a	APBAND			
	GYPSUM	16	GR	500 lb/a	500 lb/a	PPI			
	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			
	K-SULFATE 0-0-50	50	GR	60 lb ai/a	120 lb/a	BHILL			
LSD P=.10							8.76	23.07 - 26.69	33.31
Standard Deviation							6.95	0.24t	26.43
CV							33.26	15.07t	7.93
Replicate F							1.181	1.337	4.936
Replicate Prob(F)							0.3581	0.3084	0.0185
Treatment F							0.306	0.668	3.129
Treatment Prob(F)							0.8684	0.6263	0.0559

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NU TRAX POTATO WITH COMPASS

Trial ID: PMRF04-16 Location: MRF Trial Year: 2016
 Investigator: Kurt Steinke
 Project ID: NUTRXPOT

Crop Code Crop Name Crop Variety Description Rating Date Rating Type Rating Unit Crop Stage Scale						SOLTU Potato FL 2137 harvest Sep-20-2016 Total Yield CWT	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Other Rate Unit	Growth Stage	53
1	TSP-PHOS	45 GR		80 lb ai/a	178 lb/a	APBAND	356 b
	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	
	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	
	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	371 b
	MOP 0-0-62	62 GR		140 lb ai/a	226 lb/a	PPI	
	Nu-Trax P+	25 GR		2 lb/a	2 lb/a	APBAND	
	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	
	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	
	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	418
	K-SULFATE 0-0-50	50 GR		140 lb ai/a	280 lb/a	PPI	
	K-SULFATE 0-0-50	50 GR		100 lb ai/a	200 lb/a	APBAND	
	Nu-Trax P+	25 GR		2 lb/a	2 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	
	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	
	K-SULFATE 0-0-50	50 GR		60 lb ai/a	120 lb/a	BHILL	
4	TSP-PHOS	45 GR		80 lb ai/a	178 lb/a	APBAND	428 a
	K-SULFATE 0-0-50	50 GR		140 lb ai/a	280 lb/a	PPI	
	K-SULFATE 0-0-50	50 GR		100 lb ai/a	200 lb/a	APBAND	
	Nu-Trax P+	25 GR		2 lb/a	2 lb/a	APBAND	
	Boron DDP	18.5 GR		0.9 lb/a	0.9 lb/a	PPI	
	Iron DDP	47 GR		0.25 lb/a	0.25 lb/a	PPI	
	Copper DDP	57.5 GR		0.20 lb/a	0.2 lb/a	PPI	
	Magnesium DDP	30 DU		0.40 lb/a	0.40 lb/a	PPI	
	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	
	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	
	K-SULFATE 0-0-50	50 GR		60 lb ai/a	120 lb/a	BHILL	

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Crop Name						Potato		
Crop Variety						FL 2137		
Description						harvest		
Rating Date						Sep-20-2016		
Rating Type						Total Yield		
Rating Unit						CWT		
Crop Stage Scale								
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Other Rate	Other Unit	Growth Stage	
								53
5	TSP-PHOS	45	GR	80 lb ai/a	178 lb/a		APBAND	413 a
	K-SULFATE 0-0-50	50	GR	140 lb ai/a	280 lb/a		PPI	
	K-SULFATE 0-0-50	50	GR	100 lb ai/a	200 lb/a		APBAND	
	Nu-Trax P+	25	GR	2 lb/a	2 lb/a		APBAND	
	Boron DDP	18.5	GR	0.9 lb/a	0.9 lb/a		APBAND	
	Iron DDP	47	GR	0.25 lb/a	0.25 lb/a		APBAND	
	Copper DDP	57.5	GR	0.20 lb/a	0.2 lb/a		APBAND	
	Magnesium DDP	30	DU	0.40 lb/a	0.40 lb/a		APBAND	
	GYPSUM	16	GR	500 lb/a	500 lb/a		PPI	
	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	
	K-SULFATE 0-0-50	50	GR	60 lb ai/a	120 lb/a		BHILL	
LSD P=.10								
Standard Deviation								30.7
CV								7.85
Replicate F								2.029
Replicate Prob(F)								0.1804
Treatment F								4.963
Treatment Prob(F)								0.0266

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Crop Code

SOLTU, BPOT, Solanum tuberosum, = US

Rating Unit

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

ARM Action Codes

TY1 = $7.329632 * [C40]$

TY2 = $\text{LOG}([51] + 1)$

TY3 = $7.329632 * [C46]$

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