

MSU Soil Fertility Research Program

NU TRAX POTATO WITH COMPASS

Trial ID: PMRF04-17

Location: MRF Trial Year: 2017

Investigator: Kurt Steinke

Project ID: COMPTRAX

Crop Code						SOLTU	SOLTU	SOLTU	SOLTU	
Crop Name						Potato	Potato	Potato	Potato	
Crop Variety						FL 2137	FL 2137	FL 2137	FL 2137	
Description						petiole	petiole	petiole	petiole	
Rating Date						Jul-8-2017	Jul-8-2017	Jul-8-2017	Jul-8-2017	
Rating Type						P_percent	K_percent	Ca_percent	Mg_percent	
Rating Unit						percent	percent	percent	percent	
Crop Stage Scale						30 DAE	30 DAE	30 DAE	30 DAE	
ARM Action Codes										
Number of Decimals										
Trt No.	Treatment Name	Form Type	Rate	Other Rate	Other Rate	Growth Unit Stage	1	2	3	4
1	MOP 0-0-62	GR	190 lb ai/a	306 lb/a		PPI	0.30 a	10.55 a	0.76 a	0.44 a
	TSP-PHOS	GR	80 lb ai/a	178 lb/a		EMBAND				
	AS (21-0-0)-N	GR	100 lb ai/a	476 lb/a		EMBAND				
	GYP SUM	GR	500 lb/a	500 lb/a		PPI				
	MOP 0-0-62	GR	50 lb ai/a	81 lb/a		EMBAND				
	28% Nitrogen	AL	70 lb ai/a	23.3 gal/a		BHILL				
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a		BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH				
2	MOP 0-0-62	GR	190 lb ai/a	306 lb/a		PPI	0.29 a	10.36 a	0.73 a	0.41 a
	TSP-PHOS*	GR	80 lb ai/a	178 lb/a		EMBAND				
	AS (21-0-0)-N*	GR	100 lb ai/a	476 lb/a		EMBAND				
	NU-TRAX P+*	GR	2 lb/a	2 lb/a		EMBAND				
	MOP 0-0-62*	GR	50 lb ai/a	81 lb/a		EMBAND				
	GYP SUM	GR	500 lb/a	500 lb/a		PPI				
	28% Nitrogen	AL	70 lb ai/a	23.3 gal/a		BHILL				
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a		BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH				
3	TSP-PHOS	GR	80 lb ai/a	178 lb/a		APBAND	0.29 a	9.81 a	0.79 a	0.46 a
	MOP 0-0-62	GR	190 lb ai/a	306 lb/a		PPI				
	MOP 0-0-62	GR	50 lb ai/a	81 lb/a		APBAND				
	GYP SUM	GR	500 lb/a	500 lb/a		PPI				
	Urea 46-0-0	GR	30 lb ai/a	65 lb/a		APBAND				
	AS (21-0-0)-N	GR	80 lb ai/a	380 lb/a		EMBAND				
	28% Nitrogen	AL	60 lb ai/a	20 gal/a		BHILL				
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a		BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH				

Means followed by same letter or symbol do not significantly differ (P=.10, LSD)

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Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Crop Code						SOLTU	SOLTU	SOLTU	SOLTU	
Crop Name						Potato	Potato	Potato	Potato	
Crop Variety						FL 2137	FL 2137	FL 2137	FL 2137	
Description						petiole	petiole	petiole	petiole	
Rating Date						Jul-8-2017	Jul-8-2017	Jul-8-2017	Jul-8-2017	
Rating Type						P_percent	K_percent	Ca_percent	Mg_percent	
Rating Unit						percent	percent	percent	percent	
Crop Stage Scale						30 DAE	30 DAE	30 DAE	30 DAE	
ARM Action Codes										
Number of Decimals										
Trt No.	Treatment Name	Form Type	Rate	Other Rate	Other Rate	Growth Unit Stage	1	2	3	4
4	TSP-PHOS	GR	80 lb ai/a	178 lb/a		APBAND	0.31 a	10.18 a	0.78 a	0.42 a
	MOP 0-0-62	GR	190 lb ai/a	306 lb/a		PPI				
	MOP 0-0-62	GR	50 lb ai/a	81 lb/a		APBAND				
	GYP SUM	GR	500 lb/a	500 lb/a		PPI				
	Urea 46-0-0	GR	30 lb ai/a	65 lb/a		APBAND				
	AS (21-0-0)-N*	GR	80 lb ai/a	380 lb/a		EMBAND				
	NU-TRAX P+*	GR	2 lb/a	2 lb/a		EMBAND				
	28% Nitrogen	AL	60 lb ai/a	20 gal/a		BHILL				
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a		BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH				
LSD P=.10							0.028	0.797	0.123	0.135
Standard Deviation							0.022	0.615	0.095	0.104
CV							7.32	6.02	12.41	24.15
Replicate F							5.179	1.369	5.423	1.635
Replicate Prob(F)							0.0237	0.3133	0.0209	0.2494
Treatment F							0.536	1.049	0.246	0.178
Treatment Prob(F)							0.6694	0.4171	0.8622	0.9087

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Trial ID: PMRF04-17

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Investigator: Kurt Steinke

Project ID: COMPTRAX

Crop Code Crop Name Crop Variety Description Rating Date						SOLTU Potato FL 2137 petiole Jul-8-2017	SOLTU Potato FL 2137 petiole Jul-8-2017	SOLTU Potato FL 2137 petiole Jul-8-2017	SOLTU Potato FL 2137 petiole Jul-8-2017
Rating Type						S_percent	Zn_ppm	Mn_ppm	Fe_ppm
Rating Unit						percent	ppm	ppm	ppm
Crop Stage Scale						30 DAE	30 DAE	30 DAE	30 DAE
ARM Action Codes								AL	
Number of Decimals									
Trt No.	Treatment Name	Form Type	Rate Rate Unit	Other Other Rate Rate Unit	Growth Unit Stage	5	6	7	8
1	MOP 0-0-62	GR	190 lb ai/a	306 lb/a	PPI	0.26 a	64.50 a	213.88 a	91.50 a
	TSP-PHOS	GR	80 lb ai/a	178 lb/a	EMBAND				
	AS (21-0-0)-N	GR	100 lb ai/a	476 lb/a	EMBAND				
	GYP SUM	GR	500 lb/a	500 lb/a	PPI				
	MOP 0-0-62	GR	50 lb ai/a	81 lb/a	EMBAND				
	28% Nitrogen	AL	70 lb ai/a	23.3 gal/a	BHILL				
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a	BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a	7-10DAH				
2	MOP 0-0-62	GR	190 lb ai/a	306 lb/a	PPI	0.25 a	64.50 a	253.73 a	78.00 a
	TSP-PHOS*	GR	80 lb ai/a	178 lb/a	EMBAND				
	AS (21-0-0)-N*	GR	100 lb ai/a	476 lb/a	EMBAND				
	NU-TRAX P+*	GR	2 lb/a	2 lb/a	EMBAND				
	MOP 0-0-62*	GR	50 lb ai/a	81 lb/a	EMBAND				
	GYP SUM	GR	500 lb/a	500 lb/a	PPI				
	28% Nitrogen	AL	70 lb ai/a	23.3 gal/a	BHILL				
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a	BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a	7-10DAH				
3	TSP-PHOS	GR	80 lb ai/a	178 lb/a	APBAND	0.24 a	61.50 a	221.75 a	86.25 a
	MOP 0-0-62	GR	190 lb ai/a	306 lb/a	PPI				
	MOP 0-0-62	GR	50 lb ai/a	81 lb/a	APBAND				
	GYP SUM	GR	500 lb/a	500 lb/a	PPI				
	Urea 46-0-0	GR	30 lb ai/a	65 lb/a	APBAND				
	AS (21-0-0)-N	GR	80 lb ai/a	380 lb/a	EMBAND				
	28% Nitrogen	AL	60 lb ai/a	20 gal/a	BHILL				
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a	BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a	7-10DAH				

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Crop Name						Potato	Potato	Potato	Potato	
Crop Variety						FL 2137	FL 2137	FL 2137	FL 2137	
Description						petiole	petiole	petiole	petiole	
Rating Date						Jul-8-2017	Jul-8-2017	Jul-8-2017	Jul-8-2017	
Rating Type						S_percent	Zn_ppm	Mn_ppm	Fe_ppm	
Rating Unit						percent	ppm	ppm	ppm	
Crop Stage Scale						30 DAE	30 DAE	30 DAE	30 DAE	
ARM Action Codes								AL		
Number of Decimals										
Trt No.	Treatment Name	Form Type	Rate	Other Rate	Other Rate	Growth Unit Stage	5	6	7	8
4	TSP-PHOS	GR	80 lb ai/a	178 lb/a		APBAND	0.24 a	60.25 a	241.29 a	74.50 a
	MOP 0-0-62	GR	190 lb ai/a	306 lb/a		PPI				
	MOP 0-0-62	GR	50 lb ai/a	81 lb/a		APBAND				
	GYP SUM	GR	500 lb/a	500 lb/a		PPI				
	Urea 46-0-0	GR	30 lb ai/a	65 lb/a		APBAND				
	AS (21-0-0)-N*	GR	80 lb ai/a	380 lb/a		EMBAND				
	NU-TRAX P+*	GR	2 lb/a	2 lb/a		EMBAND				
	28% Nitrogen	AL	60 lb ai/a	20 gal/a		BHILL				
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a		BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH				
LSD P=.10							0.015	14.858	65.426 - 74.266	16.622
Standard Deviation							0.012	11.463	0.099t	12.824
CV							4.81	18.29	4.2t	15.53
Replicate F							2.075	2.418	2.397	0.707
Replicate Prob(F)							0.1740	0.1334	0.1356	0.5717
Treatment F							2.075	0.141	0.459	1.454
Treatment Prob(F)							0.1740	0.9327	0.7177	0.2911

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Crop Name						Potato	Potato	Potato	Potato	
Crop Variety						FL 2137	FL 2137	FL 2137	FL 2137	
Description						petiole	petiole	petiole	petiole	
Rating Date						Jul-8-2017	Jul-8-2017	Jul-8-2017	Jul-8-2017	
Rating Type						Cu_ppm	B_ppm	Mo_ppm	Al_ppm	
Rating Unit						ppm	ppm	ppm	ppm	
Crop Stage Scale						30 DAE	30 DAE	30 DAE	30 DAE	
ARM Action Codes									AS	
Number of Decimals										
Trt No.	Treatment Name	Form Type	Rate	Other Rate	Other Rate	Growth Unit Stage	9	10	11	12
1	MOP 0-0-62	GR	190 lb ai/a	306 lb/a		PPI	6.50 a	24.50 a	0.00 a	15.36 a
	TSP-PHOS	GR	80 lb ai/a	178 lb/a		EMBAND				
	AS (21-0-0)-N	GR	100 lb ai/a	476 lb/a		EMBAND				
	GYP SUM	GR	500 lb/a	500 lb/a		PPI				
	MOP 0-0-62	GR	50 lb ai/a	81 lb/a		EMBAND				
	28% Nitrogen	AL	70 lb ai/a	23.3 gal/a		BHILL				
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a		BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH				
2	MOP 0-0-62	GR	190 lb ai/a	306 lb/a		PPI	7.00 a	24.75 a	0.00 a	13.32 a
	TSP-PHOS*	GR	80 lb ai/a	178 lb/a		EMBAND				
	AS (21-0-0)-N*	GR	100 lb ai/a	476 lb/a		EMBAND				
	NU-TRAX P+*	GR	2 lb/a	2 lb/a		EMBAND				
	MOP 0-0-62*	GR	50 lb ai/a	81 lb/a		EMBAND				
	GYP SUM	GR	500 lb/a	500 lb/a		PPI				
	28% Nitrogen	AL	70 lb ai/a	23.3 gal/a		BHILL				
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a		BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH				
3	TSP-PHOS	GR	80 lb ai/a	178 lb/a		APBAND	7.00 a	23.50 a	0.00 a	37.14 a
	MOP 0-0-62	GR	190 lb ai/a	306 lb/a		PPI				
	MOP 0-0-62	GR	50 lb ai/a	81 lb/a		APBAND				
	GYP SUM	GR	500 lb/a	500 lb/a		PPI				
	Urea 46-0-0	GR	30 lb ai/a	65 lb/a		APBAND				
	AS (21-0-0)-N	GR	80 lb ai/a	380 lb/a		EMBAND				
	28% Nitrogen	AL	60 lb ai/a	20 gal/a		BHILL				
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a		BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH				

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Crop Code						SOLTU	SOLTU	SOLTU	SOLTU	
Crop Name						Potato	Potato	Potato	Potato	
Crop Variety						FL 2137	FL 2137	FL 2137	FL 2137	
Description						petiole	petiole	petiole	petiole	
Rating Date						Jul-8-2017	Jul-8-2017	Jul-8-2017	Jul-8-2017	
Rating Type						Cu_ppm	B_ppm	Mo_ppm	Al_ppm	
Rating Unit						ppm	ppm	ppm	ppm	
Crop Stage Scale						30 DAE	30 DAE	30 DAE	30 DAE	
ARM Action Codes									AS	
Number of Decimals										
Trt No.	Treatment Name	Form Type	Rate Rate Unit	Other Rate	Other Rate Unit	Growth Stage	9	10	11	12
4	TSP-PHOS	GR	80 lb ai/a	178 lb/a		APBAND	6.50 a	23.75 a	0.00 a	14.52 a
	MOP 0-0-62	GR	190 lb ai/a	306 lb/a		PPI				
	MOP 0-0-62	GR	50 lb ai/a	81 lb/a		APBAND				
	GYP SUM	GR	500 lb/a	500 lb/a		PPI				
	Urea 46-0-0	GR	30 lb ai/a	65 lb/a		APBAND				
	AS (21-0-0)-N*	GR	80 lb ai/a	380 lb/a		EMBAND				
	NU-TRAX P+*	GR	2 lb/a	2 lb/a		EMBAND				
	28% Nitrogen	AL	60 lb ai/a	20 gal/a		BHILL				
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a		BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH				
LSD P=.10							0.683	1.871	.	20.986 - 22.014
Standard Deviation							0.527	1.443	0.000	1.683t
CV							7.81	5.98	0.0	38.02t
Replicate F							4.200	3.960	0.000	0.010
Replicate Prob(F)							0.0408	0.0471	1.0000	0.9986
Treatment F							1.200	0.680	0.000	1.846
Treatment Prob(F)							0.3641	0.5861	1.0000	0.2092

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Crop Code Crop Name Crop Variety Description Rating Date						SOLTU Potato FL 2137 petiole Jul-20-2017	SOLTU Potato FL 2137 petiole Jul-20-2017	SOLTU Potato FL 2137 petiole Jul-20-2017	SOLTU Potato FL 2137 petiole Jul-20-2017
Rating Type						N_percent	NO3N_percent	P_percent	K_percent
Rating Unit Crop Stage Scale ARM Action Codes Number of Decimals						ppm 45 DAE	percent 45 DAE	percent 45 DAE	percent 45 DAE
Trt No.	Treatment Name	Form Type	Rate Rate Unit	Other Other Rate Rate Unit	Growth Unit Stage	13	14	15	16
1	MOP 0-0-62	GR	190 lb ai/a	306 lb/a	PPI	0.00 a	0.00 a	0.22 a	8.26 a
	TSP-PHOS	GR	80 lb ai/a	178 lb/a	EMBAND				
	AS (21-0-0)-N	GR	100 lb ai/a	476 lb/a	EMBAND				
	GYP SUM	GR	500 lb/a	500 lb/a	PPI				
	MOP 0-0-62	GR	50 lb ai/a	81 lb/a	EMBAND				
	28% Nitrogen	AL	70 lb ai/a	23.3 gal/a	BHILL				
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a	BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a	7-10DAH				
2	MOP 0-0-62	GR	190 lb ai/a	306 lb/a	PPI	0.00 a	0.00 a	0.18 a	7.58 a
	TSP-PHOS*	GR	80 lb ai/a	178 lb/a	EMBAND				
	AS (21-0-0)-N*	GR	100 lb ai/a	476 lb/a	EMBAND				
	NU-TRAX P+*	GR	2 lb/a	2 lb/a	EMBAND				
	MOP 0-0-62*	GR	50 lb ai/a	81 lb/a	EMBAND				
	GYP SUM	GR	500 lb/a	500 lb/a	PPI				
	28% Nitrogen	AL	70 lb ai/a	23.3 gal/a	BHILL				
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a	BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a	7-10DAH				
3	TSP-PHOS	GR	80 lb ai/a	178 lb/a	APBAND	0.00 a	0.00 a	0.22 a	8.12 a
	MOP 0-0-62	GR	190 lb ai/a	306 lb/a	PPI				
	MOP 0-0-62	GR	50 lb ai/a	81 lb/a	APBAND				
	GYP SUM	GR	500 lb/a	500 lb/a	PPI				
	Urea 46-0-0	GR	30 lb ai/a	65 lb/a	APBAND				
	AS (21-0-0)-N	GR	80 lb ai/a	380 lb/a	EMBAND				
	28% Nitrogen	AL	60 lb ai/a	20 gal/a	BHILL				
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a	BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a	7-10DAH				

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Crop Name						Potato	Potato	Potato	Potato	
Crop Variety						FL 2137	FL 2137	FL 2137	FL 2137	
Description						petiole	petiole	petiole	petiole	
Rating Date						Jul-20-2017	Jul-20-2017	Jul-20-2017	Jul-20-2017	
Rating Type						N_percent	NO3N_percent	P_percent	K_percent	
Rating Unit						ppm	percent	percent	percent	
Crop Stage Scale						45 DAE	45 DAE	45 DAE	45 DAE	
ARM Action Codes										
Number of Decimals										
Trt No.	Treatment Name	Form Type	Rate Rate Unit	Other Rate	Other Rate Unit	Growth Stage	13	14	15	16
4	TSP-PHOS	GR	80 lb ai/a	178 lb/a		APBAND	0.00 a	0.00 a	0.22 a	7.76 a
	MOP 0-0-62	GR	190 lb ai/a	306 lb/a		PPI				
	MOP 0-0-62	GR	50 lb ai/a	81 lb/a		APBAND				
	GYP SUM	GR	500 lb/a	500 lb/a		PPI				
	Urea 46-0-0	GR	30 lb ai/a	65 lb/a		APBAND				
	AS (21-0-0)-N*	GR	80 lb ai/a	380 lb/a		EMBAND				
	NU-TRAX P+*	GR	2 lb/a	2 lb/a		EMBAND				
	28% Nitrogen	AL	60 lb ai/a	20 gal/a		BHILL				
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a		BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH				
LSD P=.10						.	.	0.046	1.260	
Standard Deviation						0.000	0.000	0.035	0.972	
CV						0.0	0.0	16.78	12.26	
Replicate F						0.000	0.000	0.221	1.302	
Replicate Prob(F)						1.0000	1.0000	0.8793	0.3325	
Treatment F						0.000	0.000	1.072	0.416	
Treatment Prob(F)						1.0000	1.0000	0.4086	0.7460	

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Crop Code						SOLTU	SOLTU	SOLTU	SOLTU	
Crop Name						Potato	Potato	Potato	Potato	
Crop Variety						FL 2137	FL 2137	FL 2137	FL 2137	
Description						petiole	petiole	petiole	petiole	
Rating Date						Jul-20-2017	Jul-20-2017	Jul-20-2017	Jul-20-2017	
Rating Type						Ca_percent	Mg_percent	S_percent	Zn_ppm	
Rating Unit						percent	percent	ppm	ppm	
Crop Stage Scale						45 DAE	45 DAE	45 DAE	45 DAE	
ARM Action Codes										
Number of Decimals										
Trt No.	Treatment Name	Form Type	Rate Rate Unit	Other Rate	Other Rate Unit	Growth Stage	17	18	19	20
1	MOP 0-0-62	GR	190 lb ai/a	306 lb/a		PPI	1.09 a	0.73 a	0.24 a	43.75 a
	TSP-PHOS	GR	80 lb ai/a	178 lb/a		EMBAND				
	AS (21-0-0)-N	GR	100 lb ai/a	476 lb/a		EMBAND				
	GYP SUM	GR	500 lb/a	500 lb/a		PPI				
	MOP 0-0-62	GR	50 lb ai/a	81 lb/a		EMBAND				
	28% Nitrogen	AL	70 lb ai/a	23.3 gal/a		BHILL				
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a		BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH				
2	MOP 0-0-62	GR	190 lb ai/a	306 lb/a		PPI	1.25 a	0.88 a	0.24 a	48.75 a
	TSP-PHOS*	GR	80 lb ai/a	178 lb/a		EMBAND				
	AS (21-0-0)-N*	GR	100 lb ai/a	476 lb/a		EMBAND				
	NU-TRAX P+*	GR	2 lb/a	2 lb/a		EMBAND				
	MOP 0-0-62*	GR	50 lb ai/a	81 lb/a		EMBAND				
	GYP SUM	GR	500 lb/a	500 lb/a		PPI				
	28% Nitrogen	AL	70 lb ai/a	23.3 gal/a		BHILL				
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a		BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH				
3	TSP-PHOS	GR	80 lb ai/a	178 lb/a		APBAND	1.12 a	0.78 a	0.25 a	49.00 a
	MOP 0-0-62	GR	190 lb ai/a	306 lb/a		PPI				
	MOP 0-0-62	GR	50 lb ai/a	81 lb/a		APBAND				
	GYP SUM	GR	500 lb/a	500 lb/a		PPI				
	Urea 46-0-0	GR	30 lb ai/a	65 lb/a		APBAND				
	AS (21-0-0)-N	GR	80 lb ai/a	380 lb/a		EMBAND				
	28% Nitrogen	AL	60 lb ai/a	20 gal/a		BHILL				
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a		BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH				

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Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Could not calculate LSD (% mean diff) for columns 11,13,14,25,28,29,40 because error mean square = 0.

MSU Soil Fertility Research Program

NU TRAX POTATO WITH COMPASS

Trial ID: PMRF04-17

Location: MRF Trial Year: 2017

Investigator: Kurt Steinke

Project ID: COMPTRAX

Crop Code						SOLTU	SOLTU	SOLTU	SOLTU		
Crop Name						Potato	Potato	Potato	Potato		
Crop Variety						FL 2137	FL 2137	FL 2137	FL 2137		
Description						petiole	petiole	petiole	petiole		
Rating Date						Jul-20-2017	Jul-20-2017	Jul-20-2017	Jul-20-2017		
Rating Type						Ca_percent	Mg_percent	S_percent	Zn_ppm		
Rating Unit						percent	percent	ppm	ppm		
Crop Stage Scale						45 DAE	45 DAE	45 DAE	45 DAE		
ARM Action Codes											
Number of Decimals											
Trt	Treatment	Form	Rate	Other	Other	Growth					
No.	Name	Type	Rate	Unit	Rate	Unit	Stage				
							17	18	19	20	
4	TSP-PHOS	GR	80 lb	ai/a	178 lb/a		APBAND	1.14 a	0.81 a	0.25 a	41.75 a
	MOP 0-0-62	GR	190 lb	ai/a	306 lb/a		PPI				
	MOP 0-0-62	GR	50 lb	ai/a	81 lb/a		APBAND				
	GYP SUM	GR	500 lb/a		500 lb/a		PPI				
	Urea 46-0-0	GR	30 lb	ai/a	65 lb/a		APBAND				
	AS (21-0-0)-N*	GR	80 lb	ai/a	380 lb/a		EMBAND				
	NU-TRAX P+*	GR	2 lb/a		2 lb/a		EMBAND				
	28% Nitrogen	AL	60 lb	ai/a	20 gal/a		BHILL				
	MOP 0-0-62	GR	60 lb	ai/a	97 lb/a		BHILL				
	28% Nitrogen	AL	55 lb	ai/a	18.3 gal/a		7-10DAH				
LSD P=.10						0.219	0.287	0.027	14.127		
Standard Deviation						0.169	0.221	0.021	10.899		
CV						14.71	27.69	8.37	23.79		
Replicate F						1.694	1.620	0.330	1.261		
Replicate Prob(F)						0.2371	0.2524	0.8040	0.3449		
Treatment F						0.701	0.319	0.291	0.444		
Treatment Prob(F)						0.5748	0.8116	0.8312	0.7274		

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MSU Soil Fertility Research Program

NU TRAX POTATO WITH COMPASS

Trial ID: PMRF04-17

Location: MRF Trial Year: 2017

Investigator: Kurt Steinke

Project ID: COMPTRAX

Crop Code						SOLTU	SOLTU	SOLTU	SOLTU	
Crop Name						Potato	Potato	Potato	Potato	
Crop Variety						FL 2137	FL 2137	FL 2137	FL 2137	
Description						petiole	petiole	petiole	petiole	
Rating Date						Jul-20-2017	Jul-20-2017	Jul-20-2017	Jul-20-2017	
Rating Type						Mn_ppm	Fe_ppm	Cu_ppm	B_ppm	
Rating Unit						ppm	ppm	ppm	ppm	
Crop Stage Scale						45 DAE	45 DAE	45 DAE	45 DAE	
ARM Action Codes							AL			
Number of Decimals										
Trt No.	Treatment Name	Form Type	Rate Rate Unit	Other Rate	Other Rate Unit	Growth Stage	21	22	23	24
1	MOP 0-0-62	GR	190 lb ai/a	306 lb/a		PPI	384.75 a	121.80 a	9.25 a	28.50 a
	TSP-PHOS	GR	80 lb ai/a	178 lb/a		EMBAND				
	AS (21-0-0)-N	GR	100 lb ai/a	476 lb/a		EMBAND				
	GYP SUM	GR	500 lb/a	500 lb/a		PPI				
	MOP 0-0-62	GR	50 lb ai/a	81 lb/a		EMBAND				
	28% Nitrogen	AL	70 lb ai/a	23.3 gal/a		BHILL				
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a		BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH				
2	MOP 0-0-62	GR	190 lb ai/a	306 lb/a		PPI	431.75 a	107.95 a	9.50 a	27.75 a
	TSP-PHOS*	GR	80 lb ai/a	178 lb/a		EMBAND				
	AS (21-0-0)-N*	GR	100 lb ai/a	476 lb/a		EMBAND				
	NU-TRAX P+*	GR	2 lb/a	2 lb/a		EMBAND				
	MOP 0-0-62*	GR	50 lb ai/a	81 lb/a		EMBAND				
	GYP SUM	GR	500 lb/a	500 lb/a		PPI				
	28% Nitrogen	AL	70 lb ai/a	23.3 gal/a		BHILL				
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a		BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH				
3	TSP-PHOS	GR	80 lb ai/a	178 lb/a		APBAND	423.75 a	87.45 a	10.75 a	27.50 a
	MOP 0-0-62	GR	190 lb ai/a	306 lb/a		PPI				
	MOP 0-0-62	GR	50 lb ai/a	81 lb/a		APBAND				
	GYP SUM	GR	500 lb/a	500 lb/a		PPI				
	Urea 46-0-0	GR	30 lb ai/a	65 lb/a		APBAND				
	AS (21-0-0)-N	GR	80 lb ai/a	380 lb/a		EMBAND				
	28% Nitrogen	AL	60 lb ai/a	20 gal/a		BHILL				
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a		BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH				

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MSU Soil Fertility Research Program

NU TRAX POTATO WITH COMPASS

Trial ID: PMRF04-17

Location: MRF Trial Year: 2017

Investigator: Kurt Steinke

Project ID: COMPTRAX

Crop Code						SOLTU	SOLTU	SOLTU	SOLTU	
Crop Name						Potato	Potato	Potato	Potato	
Crop Variety						FL 2137	FL 2137	FL 2137	FL 2137	
Description						petiole	petiole	petiole	petiole	
Rating Date						Jul-20-2017	Jul-20-2017	Jul-20-2017	Jul-20-2017	
Rating Type						Mn_ppm	Fe_ppm	Cu_ppm	B_ppm	
Rating Unit						ppm	ppm	ppm	ppm	
Crop Stage Scale						45 DAE	45 DAE	45 DAE	45 DAE	
ARM Action Codes							AL			
Number of Decimals										
Trt No.	Treatment Name	Form Type	Rate	Other Rate	Other Rate	Growth Unit Stage	21	22	23	24
4	TSP-PHOS	GR	80 lb ai/a	178 lb/a		APBAND	408.25 a	102.40 a	10.25 a	27.00 a
	MOP 0-0-62	GR	190 lb ai/a	306 lb/a		PPI				
	MOP 0-0-62	GR	50 lb ai/a	81 lb/a		APBAND				
	GYP SUM	GR	500 lb/a	500 lb/a		PPI				
	Urea 46-0-0	GR	30 lb ai/a	65 lb/a		APBAND				
	AS (21-0-0)-N*	GR	80 lb ai/a	380 lb/a		EMBAND				
	NU-TRAX P+*	GR	2 lb/a	2 lb/a		EMBAND				
	28% Nitrogen	AL	60 lb ai/a	20 gal/a		BHILL				
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a		BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH				
LSD P=.10						76.711	52.242 - 65.494	2.447	1.785	
Standard Deviation						59.181	0.186t	1.887	1.377	
CV						14.36	9.18t	18.99	4.97	
Replicate F						2.566	1.024	2.170	6.978	
Replicate Prob(F)						0.1195	0.4270	0.1614	0.0101	
Treatment F						0.489	0.405	0.532	0.824	
Treatment Prob(F)						0.6984	0.7531	0.6715	0.5129	

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MSU Soil Fertility Research Program

NU TRAX POTATO WITH COMPASS

Trial ID: PMRF04-17

Location: MRF Trial Year: 2017

Investigator: Kurt Steinke

Project ID: COMPTRAX

Crop Code Crop Name Crop Variety Description Rating Date						SOLTU Potato FL 2137 petiole Jul-20-2017	SOLTU Potato FL 2137 petiole Jul-20-2017	SOLTU Potato FL 2137 petiole Jul-20-2017	SOLTU Potato FL 2137 petiole Aug-4-2016	
Rating Type Rating Unit Crop Stage Scale ARM Action Codes Number of Decimals						Mo_ppm ppm 45 DAE	Al_ppm ppm 45 DAE AL	Na_percent ppm 45 DAE EC	N_percent percent 60 DAE	
Trt No.	Treatment Name	Form Type	Rate Rate Unit	Other Rate	Other Rate Unit	Growth Stage	25	26	27	28
1	MOP 0-0-62	GR	190 lb ai/a	306 lb/a		PPI	0.00 a	27.70 a	0.01	0.00 a
	TSP-PHOS	GR	80 lb ai/a	178 lb/a		EMBAND				
	AS (21-0-0)-N	GR	100 lb ai/a	476 lb/a		EMBAND				
	GYP SUM	GR	500 lb/a	500 lb/a		PPI				
	MOP 0-0-62	GR	50 lb ai/a	81 lb/a		EMBAND				
	28% Nitrogen	AL	70 lb ai/a	23.3 gal/a		BHILL				
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a		BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH				
2	MOP 0-0-62	GR	190 lb ai/a	306 lb/a		PPI	0.00 a	40.02 a	0.02 a	0.00 a
	TSP-PHOS*	GR	80 lb ai/a	178 lb/a		EMBAND				
	AS (21-0-0)-N*	GR	100 lb ai/a	476 lb/a		EMBAND				
	NU-TRAX P+*	GR	2 lb/a	2 lb/a		EMBAND				
	MOP 0-0-62*	GR	50 lb ai/a	81 lb/a		EMBAND				
	GYP SUM	GR	500 lb/a	500 lb/a		PPI				
	28% Nitrogen	AL	70 lb ai/a	23.3 gal/a		BHILL				
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a		BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH				
3	TSP-PHOS	GR	80 lb ai/a	178 lb/a		APBAND	0.00 a	36.58 a	0.02 a	0.00 a
	MOP 0-0-62	GR	190 lb ai/a	306 lb/a		PPI				
	MOP 0-0-62	GR	50 lb ai/a	81 lb/a		APBAND				
	GYP SUM	GR	500 lb/a	500 lb/a		PPI				
	Urea 46-0-0	GR	30 lb ai/a	65 lb/a		APBAND				
	AS (21-0-0)-N	GR	80 lb ai/a	380 lb/a		EMBAND				
	28% Nitrogen	AL	60 lb ai/a	20 gal/a		BHILL				
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a		BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH				

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MSU Soil Fertility Research Program

NU TRAX POTATO WITH COMPASS

Trial ID: PMRF04-17

Location: MRF Trial Year: 2017

Investigator: Kurt Steinke

Project ID: COMPTRAX

Crop Code						SOLTU	SOLTU	SOLTU	SOLTU	
Crop Name						Potato	Potato	Potato	Potato	
Crop Variety						FL 2137	FL 2137	FL 2137	FL 2137	
Description						petiole	petiole	petiole	petiole	
Rating Date						Jul-20-2017	Jul-20-2017	Jul-20-2017	Aug-4-2016	
Rating Type						Mo_ppm	Al_ppm	Na_percent	N_percent	
Rating Unit						ppm	ppm	ppm	percent	
Crop Stage Scale						45 DAE	45 DAE	45 DAE	60 DAE	
ARM Action Codes							AL	EC		
Number of Decimals										
Trt No.	Treatment Name	Form Type	Rate Rate Unit	Other Rate	Other Rate Unit	Growth Stage	25	26	27	28
4	TSP-PHOS	GR	80 lb ai/a	178 lb/a		APBAND	0.00 a	38.07 a	0.02 a	0.00 a
	MOP 0-0-62	GR	190 lb ai/a	306 lb/a		PPI				
	MOP 0-0-62	GR	50 lb ai/a	81 lb/a		APBAND				
	GYP SUM	GR	500 lb/a	500 lb/a		PPI				
	Urea 46-0-0	GR	30 lb ai/a	65 lb/a		APBAND				
	AS (21-0-0)-N*	GR	80 lb ai/a	380 lb/a		EMBAND				
	NU-TRAX P+*	GR	2 lb/a	2 lb/a		EMBAND				
	28% Nitrogen	AL	60 lb ai/a	20 gal/a		BHILL				
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a		BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH				
LSD P=.10						.	19.396 - 25.739	0.008	.	
Standard Deviation						0.000	0.215t	0.006	0.000	
CV						0.0	13.76t	33.17	0.0	
Replicate F						0.000	0.544	0.727	0.000	
Replicate Prob(F)						1.0000	0.6644	0.5720	1.0000	
Treatment F						0.000	0.420	0.273	0.000	
Treatment Prob(F)						1.0000	0.7434	0.7703	1.0000	

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Could not calculate LSD (% mean diff) for columns 11,13,14,25,28,29,40 because error mean square = 0.

MSU Soil Fertility Research Program

NU TRAX POTATO WITH COMPASS

Trial ID: PMRF04-17

Location: MRF Trial Year: 2017

Investigator: Kurt Steinke

Project ID: COMPTRAX

Crop Code Crop Name Crop Variety Description Rating Date						SOLTU Potato FL 2137 petiole Aug-4-2016	SOLTU Potato FL 2137 petiole Aug-4-2016	SOLTU Potato FL 2137 petiole Aug-4-2016	SOLTU Potato FL 2137 petiole Aug-4-2016
Rating Type Rating Unit Crop Stage Scale ARM Action Codes Number of Decimals						NO3N_percent percent 60 DAE	P_percent percent 60 DAE	K_percent percent 60 DAE	Ca_percent percent 60 DAE
Trt No.	Treatment Name	Form Type	Rate Rate Unit	Other Other Rate Rate	Growth Unit Stage	29	30	31	32
1	MOP 0-0-62	GR	190 lb ai/a	306 lb/a	PPI	0.00 a	0.20 a	6.08 a	1.59 a
	TSP-PHOS	GR	80 lb ai/a	178 lb/a	EMBAND				
	AS (21-0-0)-N	GR	100 lb ai/a	476 lb/a	EMBAND				
	GYP SUM	GR	500 lb/a	500 lb/a	PPI				
	MOP 0-0-62	GR	50 lb ai/a	81 lb/a	EMBAND				
	28% Nitrogen	AL	70 lb ai/a	23.3 gal/a	BHILL				
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a	BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a	7-10DAH				
2	MOP 0-0-62	GR	190 lb ai/a	306 lb/a	PPI	0.00 a	0.19 a	6.24 a	1.62 a
	TSP-PHOS*	GR	80 lb ai/a	178 lb/a	EMBAND				
	AS (21-0-0)-N*	GR	100 lb ai/a	476 lb/a	EMBAND				
	NU-TRAX P+*	GR	2 lb/a	2 lb/a	EMBAND				
	MOP 0-0-62*	GR	50 lb ai/a	81 lb/a	EMBAND				
	GYP SUM	GR	500 lb/a	500 lb/a	PPI				
	28% Nitrogen	AL	70 lb ai/a	23.3 gal/a	BHILL				
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a	BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a	7-10DAH				
3	TSP-PHOS	GR	80 lb ai/a	178 lb/a	APBAND	0.00 a	0.18 a	6.41 a	1.60 a
	MOP 0-0-62	GR	190 lb ai/a	306 lb/a	PPI				
	MOP 0-0-62	GR	50 lb ai/a	81 lb/a	APBAND				
	GYP SUM	GR	500 lb/a	500 lb/a	PPI				
	Urea 46-0-0	GR	30 lb ai/a	65 lb/a	APBAND				
	AS (21-0-0)-N	GR	80 lb ai/a	380 lb/a	EMBAND				
	28% Nitrogen	AL	60 lb ai/a	20 gal/a	BHILL				
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a	BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a	7-10DAH				

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Could not calculate LSD (% mean diff) for columns 11,13,14,25,28,29,40 because error mean square = 0.

MSU Soil Fertility Research Program

NU TRAX POTATO WITH COMPASS

Trial ID: PMRF04-17

Location: MRF Trial Year: 2017

Investigator: Kurt Steinke

Project ID: COMPTRAX

Crop Code						SOLTU	SOLTU	SOLTU	SOLTU	
Crop Name						Potato	Potato	Potato	Potato	
Crop Variety						FL 2137	FL 2137	FL 2137	FL 2137	
Description						petiole	petiole	petiole	petiole	
Rating Date						Aug-4-2016	Aug-4-2016	Aug-4-2016	Aug-4-2016	
Rating Type						NO3N_percent	P_percent	K_percent	Ca_percent	
Rating Unit						percent	percent	percent	percent	
Crop Stage Scale						60 DAE	60 DAE	60 DAE	60 DAE	
ARM Action Codes										
Number of Decimals										
Trt No.	Treatment Name	Form Type	Rate Rate Unit	Other Rate	Other Rate Unit	Growth Stage	29	30	31	32
4	TSP-PHOS	GR	80 lb ai/a	178 lb/a		APBAND	0.00 a	0.18 a	6.13 a	1.61 a
	MOP 0-0-62	GR	190 lb ai/a	306 lb/a		PPI				
	MOP 0-0-62	GR	50 lb ai/a	81 lb/a		APBAND				
	GYP SUM	GR	500 lb/a	500 lb/a		PPI				
	Urea 46-0-0	GR	30 lb ai/a	65 lb/a		APBAND				
	AS (21-0-0)-N*	GR	80 lb ai/a	380 lb/a		EMBAND				
	NU-TRAX P+*	GR	2 lb/a	2 lb/a		EMBAND				
	28% Nitrogen	AL	60 lb ai/a	20 gal/a		BHILL				
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a		BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH				
LSD P=.10						.	0.024	1.168	0.182	
Standard Deviation						0.000	0.019	0.901	0.140	
CV						0.0	10.03	14.5	8.75	
Replicate F						0.000	3.532	3.435	4.279	
Replicate Prob(F)						1.0000	0.0615	0.0655	0.0390	
Treatment F						0.000	0.629	0.102	0.032	
Treatment Prob(F)						1.0000	0.6143	0.9567	0.9918	

Means followed by same letter or symbol do not significantly differ (P=.10, LSD)

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Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Could not calculate LSD (% mean diff) for columns 11,13,14,25,28,29,40 because error mean square = 0.

MSU Soil Fertility Research Program

NU TRAX POTATO WITH COMPASS

Trial ID: PMRF04-17

Location: MRF Trial Year: 2017

Investigator: Kurt Steinke

Project ID: COMPTRAX

Crop Code Crop Name Crop Variety Description Rating Date						SOLTU Potato FL 2137 petiole Aug-4-2016	SOLTU Potato FL 2137 petiole Aug-4-2016	SOLTU Potato FL 2137 petiole Aug-4-2016	SOLTU Potato FL 2137 petiole Aug-4-2016	
Rating Type Rating Unit Crop Stage Scale ARM Action Codes Number of Decimals						Mg_percent percent 60 DAE	S_percent percent 60 DAE	Zn_ppm ppm 60 DAE	Mn_ppm ppm 60 DAE	
Trt No.	Treatment Name	Form Type	Rate Rate Unit	Other Other Rate	Other Other Rate Unit	Growth Stage	33	34	35	36
1	MOP 0-0-62	GR	190 lb ai/a	306 lb/a		PPI	1.29 a	0.24 a	45.75 a	778.75 a
	TSP-PHOS	GR	80 lb ai/a	178 lb/a		EMBAND				
	AS (21-0-0)-N	GR	100 lb ai/a	476 lb/a		EMBAND				
	GYP SUM	GR	500 lb/a	500 lb/a		PPI				
	MOP 0-0-62	GR	50 lb ai/a	81 lb/a		EMBAND				
	28% Nitrogen	AL	70 lb ai/a	23.3 gal/a		BHILL				
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a		BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH				
2	MOP 0-0-62	GR	190 lb ai/a	306 lb/a		PPI	1.32 a	0.22 a	44.75 a	785.50 a
	TSP-PHOS*	GR	80 lb ai/a	178 lb/a		EMBAND				
	AS (21-0-0)-N*	GR	100 lb ai/a	476 lb/a		EMBAND				
	NU-TRAX P+*	GR	2 lb/a	2 lb/a		EMBAND				
	MOP 0-0-62*	GR	50 lb ai/a	81 lb/a		EMBAND				
	GYP SUM	GR	500 lb/a	500 lb/a		PPI				
	28% Nitrogen	AL	70 lb ai/a	23.3 gal/a		BHILL				
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a		BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH				
3	TSP-PHOS	GR	80 lb ai/a	178 lb/a		APBAND	1.19 a	0.22 a	40.25 a	827.75 a
	MOP 0-0-62	GR	190 lb ai/a	306 lb/a		PPI				
	MOP 0-0-62	GR	50 lb ai/a	81 lb/a		APBAND				
	GYP SUM	GR	500 lb/a	500 lb/a		PPI				
	Urea 46-0-0	GR	30 lb ai/a	65 lb/a		APBAND				
	AS (21-0-0)-N	GR	80 lb ai/a	380 lb/a		EMBAND				
	28% Nitrogen	AL	60 lb ai/a	20 gal/a		BHILL				
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a		BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH				

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MSU Soil Fertility Research Program

NU TRAX POTATO WITH COMPASS

Trial ID: PMRF04-17

Location: MRF Trial Year: 2017

Investigator: Kurt Steinke

Project ID: COMPTRAX

Crop Code						SOLTU	SOLTU	SOLTU	SOLTU	
Crop Name						Potato	Potato	Potato	Potato	
Crop Variety						FL 2137	FL 2137	FL 2137	FL 2137	
Description						petiole	petiole	petiole	petiole	
Rating Date						Aug-4-2016	Aug-4-2016	Aug-4-2016	Aug-4-2016	
Rating Type						Mg_percent	S_percent	Zn_ppm	Mn_ppm	
Rating Unit						percent	percent	ppm	ppm	
Crop Stage Scale						60 DAE	60 DAE	60 DAE	60 DAE	
ARM Action Codes										
Number of Decimals										
Trt No.	Treatment Name	Form Type	Rate Rate Unit	Other Rate	Other Rate Unit	Growth Stage	33	34	35	36
4	TSP-PHOS	GR	80 lb ai/a	178 lb/a		APBAND	1.30 a	0.21 a	44.25 a	766.75 a
	MOP 0-0-62	GR	190 lb ai/a	306 lb/a		PPI				
	MOP 0-0-62	GR	50 lb ai/a	81 lb/a		APBAND				
	GYP SUM	GR	500 lb/a	500 lb/a		PPI				
	Urea 46-0-0	GR	30 lb ai/a	65 lb/a		APBAND				
	AS (21-0-0)-N*	GR	80 lb ai/a	380 lb/a		EMBAND				
	NU-TRAX P+*	GR	2 lb/a	2 lb/a		EMBAND				
	28% Nitrogen	AL	60 lb ai/a	20 gal/a		BHILL				
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a		BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH				
LSD P=.10						0.387	0.027	19.245	238.444	
Standard Deviation						0.298	0.021	14.847	183.955	
CV						23.4	9.32	33.94	23.29	
Replicate F						1.459	0.373	0.582	0.933	
Replicate Prob(F)						0.2898	0.7749	0.6415	0.4639	
Treatment F						0.146	1.000	0.106	0.083	
Treatment Prob(F)						0.9296	0.4363	0.9546	0.9675	

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MSU Soil Fertility Research Program

NU TRAX POTATO WITH COMPASS

Trial ID: PMRF04-17

Location: MRF Trial Year: 2017

Investigator: Kurt Steinke

Project ID: COMPTRAX

Crop Code Crop Name Crop Variety Description Rating Date						SOLTU Potato FL 2137 petiole Aug-4-2016	SOLTU Potato FL 2137 petiole Aug-4-2016	SOLTU Potato FL 2137 petiole Aug-4-2016	SOLTU Potato FL 2137 petiole Aug-4-2016
Rating Type Rating Unit Crop Stage Scale ARM Action Codes Number of Decimals						Fe_ppm ppm 60 DAE AL	Cu_ppm ppm 60 DAE ET4	B_ppm ppm 60 DAE	Mo_ppm ppm 60 DAE
Trt No.	Treatment Name	Form Type	Rate Rate Unit	Other Other Rate Rate Unit	Growth Unit Stage	37	38	39	40
1	MOP 0-0-62	GR	190 lb ai/a	306 lb/a	PPI	119.11 a	9.25 a	28.75 a	0.00 a
	TSP-PHOS	GR	80 lb ai/a	178 lb/a	EMBAND				
	AS (21-0-0)-N	GR	100 lb ai/a	476 lb/a	EMBAND				
	GYP SUM	GR	500 lb/a	500 lb/a	PPI				
	MOP 0-0-62	GR	50 lb ai/a	81 lb/a	EMBAND				
	28% Nitrogen	AL	70 lb ai/a	23.3 gal/a	BHILL				
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a	BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a	7-10DAH				
2	MOP 0-0-62	GR	190 lb ai/a	306 lb/a	PPI	137.88 a	10.50 a	29.50 a	0.00 a
	TSP-PHOS*	GR	80 lb ai/a	178 lb/a	EMBAND				
	AS (21-0-0)-N*	GR	100 lb ai/a	476 lb/a	EMBAND				
	NU-TRAX P+*	GR	2 lb/a	2 lb/a	EMBAND				
	MOP 0-0-62*	GR	50 lb ai/a	81 lb/a	EMBAND				
	GYP SUM	GR	500 lb/a	500 lb/a	PPI				
	28% Nitrogen	AL	70 lb ai/a	23.3 gal/a	BHILL				
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a	BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a	7-10DAH				
3	TSP-PHOS	GR	80 lb ai/a	178 lb/a	APBAND	116.81 a	9.25 a	28.50 a	0.00 a
	MOP 0-0-62	GR	190 lb ai/a	306 lb/a	PPI				
	MOP 0-0-62	GR	50 lb ai/a	81 lb/a	APBAND				
	GYP SUM	GR	500 lb/a	500 lb/a	PPI				
	Urea 46-0-0	GR	30 lb ai/a	65 lb/a	APBAND				
	AS (21-0-0)-N	GR	80 lb ai/a	380 lb/a	EMBAND				
	28% Nitrogen	AL	60 lb ai/a	20 gal/a	BHILL				
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a	BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a	7-10DAH				

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MSU Soil Fertility Research Program

NU TRAX POTATO WITH COMPASS

Trial ID: PMRF04-17

Location: MRF Trial Year: 2017

Investigator: Kurt Steinke

Project ID: COMPTRAX

Crop Code						SOLTU	SOLTU	SOLTU	SOLTU	
Crop Name						Potato	Potato	Potato	Potato	
Crop Variety						FL 2137	FL 2137	FL 2137	FL 2137	
Description						petiole	petiole	petiole	petiole	
Rating Date						Aug-4-2016	Aug-4-2016	Aug-4-2016	Aug-4-2016	
Rating Type						Fe_ppm	Cu_ppm	B_ppm	Mo_ppm	
Rating Unit						ppm	ppm	ppm	ppm	
Crop Stage Scale						60 DAE	60 DAE	60 DAE	60 DAE	
ARM Action Codes						AL	ET4			
Number of Decimals										
Trt No.	Treatment Name	Form Type	Rate Rate Unit	Other Rate	Other Rate Unit	Growth Stage	37	38	39	40
4	TSP-PHOS	GR	80 lb ai/a	178 lb/a		APBAND	124.83 a	8.50	27.25 a	0.00 a
	MOP 0-0-62	GR	190 lb ai/a	306 lb/a		PPI				
	MOP 0-0-62	GR	50 lb ai/a	81 lb/a		APBAND				
	GYP SUM	GR	500 lb/a	500 lb/a		PPI				
	Urea 46-0-0	GR	30 lb ai/a	65 lb/a		APBAND				
	AS (21-0-0)-N*	GR	80 lb ai/a	380 lb/a		EMBAND				
	NU-TRAX P+*	GR	2 lb/a	2 lb/a		EMBAND				
	28% Nitrogen	AL	60 lb ai/a	20 gal/a		BHILL				
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a		BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH				
LSD P=.10						46.214 - 58.754	1.430	3.666		.
Standard Deviation						0.136t	1.041	2.828		0.000
CV						6.46t	10.77	9.92		0.0
Replicate F						0.587	4.308	0.896		0.000
Replicate Prob(F)						0.6385	0.0608	0.4801		1.0000
Treatment F						0.222	1.923	0.438		0.000
Treatment Prob(F)						0.8790	0.2263	0.7316		1.0000

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MSU Soil Fertility Research Program

NU TRAX POTATO WITH COMPASS

Trial ID: PMRF04-17

Location: MRF Trial Year: 2017

Investigator: Kurt Steinke

Project ID: COMPTRAX

Crop Code						SOLTU	SOLTU	SOLTU	SOLTU	
Crop Name						Potato	Potato	Potato	Potato	
Crop Variety						FL 2137	FL 2137	FL 2137	FL 2137	
Description						petiole	petiole	harvest	harvest	
Rating Date						Aug-4-2016	Aug-4-2016	Sep-11-2017	Sep-11-2017	
Rating Type						Al_ppm	Na_percent	< 1 7/8"	>3 1/4"	
Rating Unit						ppm	percent	count	count	
Crop Stage Scale						60 DAE	60 DAE			
ARM Action Codes							AL			
Number of Decimals										
Trt No.	Treatment Name	Form Type	Rate Rate Unit	Other Rate	Other Rate Unit	Growth Stage	41	42	44	46
1	MOP 0-0-62	GR	190 lb ai/a	306 lb/a		PPI	58.00 a	0.01 a	49.50 b	0.50 a
	TSP-PHOS	GR	80 lb ai/a	178 lb/a		EMBAND				
	AS (21-0-0)-N	GR	100 lb ai/a	476 lb/a		EMBAND				
	GYP SUM	GR	500 lb/a	500 lb/a		PPI				
	MOP 0-0-62	GR	50 lb ai/a	81 lb/a		EMBAND				
	28% Nitrogen	AL	70 lb ai/a	23.3 gal/a		BHILL				
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a		BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH				
2	MOP 0-0-62	GR	190 lb ai/a	306 lb/a		PPI	61.00 a	0.01 a	54.25 ab	1.00 a
	TSP-PHOS*	GR	80 lb ai/a	178 lb/a		EMBAND				
	AS (21-0-0)-N*	GR	100 lb ai/a	476 lb/a		EMBAND				
	NU-TRAX P+*	GR	2 lb/a	2 lb/a		EMBAND				
	MOP 0-0-62*	GR	50 lb ai/a	81 lb/a		EMBAND				
	GYP SUM	GR	500 lb/a	500 lb/a		PPI				
	28% Nitrogen	AL	70 lb ai/a	23.3 gal/a		BHILL				
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a		BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH				
3	TSP-PHOS	GR	80 lb ai/a	178 lb/a		APBAND	62.00 a	0.01 a	52.75 ab	0.75 a
	MOP 0-0-62	GR	190 lb ai/a	306 lb/a		PPI				
	MOP 0-0-62	GR	50 lb ai/a	81 lb/a		APBAND				
	GYP SUM	GR	500 lb/a	500 lb/a		PPI				
	Urea 46-0-0	GR	30 lb ai/a	65 lb/a		APBAND				
	AS (21-0-0)-N	GR	80 lb ai/a	380 lb/a		EMBAND				
	28% Nitrogen	AL	60 lb ai/a	20 gal/a		BHILL				
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a		BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH				

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MSU Soil Fertility Research Program

NU TRAX POTATO WITH COMPASS

Trial ID: PMRF04-17

Location: MRF Trial Year: 2017

Investigator: Kurt Steinke

Project ID: COMPTRAX

Crop Code						SOLTU	SOLTU	SOLTU	SOLTU	
Crop Name						Potato	Potato	Potato	Potato	
Crop Variety						FL 2137	FL 2137	FL 2137	FL 2137	
Description						petiole	petiole	harvest	harvest	
Rating Date						Aug-4-2016	Aug-4-2016	Sep-11-2017	Sep-11-2017	
Rating Type						Al_ppm	Na_percent	< 1 7/8"	>3 1/4"	
Rating Unit						ppm	percent	count	count	
Crop Stage Scale						60 DAE	60 DAE			
ARM Action Codes							AL			
Number of Decimals										
Trt No.	Treatment Name	Form Type	Rate Rate Unit	Other Rate	Other Rate Unit	Growth Stage				
							41	42	44	46
4	TSP-PHOS	GR	80 lb ai/a	178 lb/a		APBAND	68.25 a	0.01 a	57.75 a	1.00 a
	MOP 0-0-62	GR	190 lb ai/a	306 lb/a		PPI				
	MOP 0-0-62	GR	50 lb ai/a	81 lb/a		APBAND				
	GYP SUM	GR	500 lb/a	500 lb/a		PPI				
	Urea 46-0-0	GR	30 lb ai/a	65 lb/a		APBAND				
	AS (21-0-0)-N*	GR	80 lb ai/a	380 lb/a		EMBAND				
	NU-TRAX P+*	GR	2 lb/a	2 lb/a		EMBAND				
	28% Nitrogen	AL	60 lb ai/a	20 gal/a		BHILL				
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a		BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH				
LSD P=.10						25.879	0.005 - 0.005	5.132	1.107	
Standard Deviation						19.965	0.002t	3.959	0.854	
CV						32.04	34.8t	7.39	105.1	
Replicate F						0.717	1.320	16.380	0.543	
Replicate Prob(F)						0.5665	0.3272	0.0005	0.6650	
Treatment F						0.186	0.360	2.992	0.314	
Treatment Prob(F)						0.9031	0.7834	0.0882	0.8148	

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MSU Soil Fertility Research Program

NU TRAX POTATO WITH COMPASS

Trial ID: PMRF04-17

Location: MRF Trial Year: 2017

Investigator: Kurt Steinke

Project ID: COMPTRAX

Crop Code Crop Name Crop Variety Description Rating Date						SOLTU Potato FL 2137 harvest Sep-11-2017	SOLTU Potato FL 2137 harvest Sep-11-2017	SOLTU Potato FL 2137 harvest Sep-11-2017	SOLTU Potato FL 2137 harvest Sep-11-2017
Rating Type Rating Unit Crop Stage Scale ARM Action Codes Number of Decimals						Grade A count	YIELD B'S CWT TY1 0	YIELD OS CWT ET4 TY2 0	YIELD A'S CWT TY3 0
Trt No.	Treatment Name	Form Type	Rate Rate Unit	Other Other Rate Rate Unit	Growth Unit Stage	50	53	54	55
1	MOP 0-0-62	GR	190 lb ai/a	306 lb/a	PPI	129.75 a	49 a	3 a	261 a
	TSP-PHOS	GR	80 lb ai/a	178 lb/a	EMBAND				
	AS (21-0-0)-N	GR	100 lb ai/a	476 lb/a	EMBAND				
	GYP SUM	GR	500 lb/a	500 lb/a	PPI				
	MOP 0-0-62	GR	50 lb ai/a	81 lb/a	EMBAND				
	28% Nitrogen	AL	70 lb ai/a	23.3 gal/a	BHILL				
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a	BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a	7-10DAH				
2	MOP 0-0-62	GR	190 lb ai/a	306 lb/a	PPI	119.00 a	53 a	6 a	259 a
	TSP-PHOS*	GR	80 lb ai/a	178 lb/a	EMBAND				
	AS (21-0-0)-N*	GR	100 lb ai/a	476 lb/a	EMBAND				
	NU-TRAX P+*	GR	2 lb/a	2 lb/a	EMBAND				
	MOP 0-0-62*	GR	50 lb ai/a	81 lb/a	EMBAND				
	GYP SUM	GR	500 lb/a	500 lb/a	PPI				
	28% Nitrogen	AL	70 lb ai/a	23.3 gal/a	BHILL				
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a	BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a	7-10DAH				
3	TSP-PHOS	GR	80 lb ai/a	178 lb/a	APBAND	119.50 a	51 a	4 a	249 a
	MOP 0-0-62	GR	190 lb ai/a	306 lb/a	PPI				
	MOP 0-0-62	GR	50 lb ai/a	81 lb/a	APBAND				
	GYP SUM	GR	500 lb/a	500 lb/a	PPI				
	Urea 46-0-0	GR	30 lb ai/a	65 lb/a	APBAND				
	AS (21-0-0)-N	GR	80 lb ai/a	380 lb/a	EMBAND				
	28% Nitrogen	AL	60 lb ai/a	20 gal/a	BHILL				
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a	BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a	7-10DAH				

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MSU Soil Fertility Research Program

NU TRAX POTATO WITH COMPASS

Trial ID: PMRF04-17

Location: MRF Trial Year: 2017

Investigator: Kurt Steinke

Project ID: COMPTRAX

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-11-2017	Sep-11-2017	Sep-11-2017	Sep-11-2017	
Rating Type						Grade A	YIELD B'S	YIELD OS	YIELD A'S	
Rating Unit						count	CWT	CWT	CWT	
Crop Stage Scale							TY1	ET4 TY2	TY3	
ARM Action Codes							0	0	0	
Number of Decimals										
Trt No.	Treatment Name	Form Type	Rate Rate Unit	Other Rate	Other Rate Unit	Growth Stage	50	53	54	55
4	TSP-PHOS	GR	80 lb ai/a	178 lb/a		APBAND	117.75 a	57 a	6	254 a
	MOP 0-0-62	GR	190 lb ai/a	306 lb/a		PPI				
	MOP 0-0-62	GR	50 lb ai/a	81 lb/a		APBAND				
	GYP SUM	GR	500 lb/a	500 lb/a		PPI				
	Urea 46-0-0	GR	30 lb ai/a	65 lb/a		APBAND				
	AS (21-0-0)-N*	GR	80 lb ai/a	380 lb/a		EMBAND				
	NU-TRAX P+*	GR	2 lb/a	2 lb/a		EMBAND				
	28% Nitrogen	AL	60 lb ai/a	20 gal/a		BHILL				
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a		BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH				
LSD P=.10						17.120	6.9	8.0	36.6	
Standard Deviation						13.208	5.3	5.8	28.2	
CV						10.87	10.06	130.18	11.03	
Replicate F						1.671	8.046	0.500	3.081	
Replicate Prob(F)						0.2418	0.0065	0.6959	0.0829	
Treatment F						0.706	1.740	0.387	0.148	
Treatment Prob(F)						0.5721	0.2283	0.6949	0.9285	

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MSU Soil Fertility Research Program

NU TRAX POTATO WITH COMPASS

Trial ID: PMRF04-17

Location: MRF Trial Year: 2017

Investigator: Kurt Steinke

Project ID: COMPTRAX

Crop Code Crop Name Crop Variety Description Rating Date						SOLTU Potato FL 2137 harvest Sep-11-2017	SOLTU Potato FL 2137 harvest Sep-11-2017
Rating Type Rating Unit Crop Stage Scale ARM Action Codes Number of Decimals						Total Yield CWT	spec gravit
Trt Treatment No. Name						56	57
1	MOP 0-0-62	GR	190 lb ai/a	306 lb/a	PPI	313 a	1.08 a
	TSP-PHOS	GR	80 lb ai/a	178 lb/a	EMBAND		
	AS (21-0-0)-N	GR	100 lb ai/a	476 lb/a	EMBAND		
	GYP SUM	GR	500 lb/a	500 lb/a	PPI		
	MOP 0-0-62	GR	50 lb ai/a	81 lb/a	EMBAND		
	28% Nitrogen	AL	70 lb ai/a	23.3 gal/a	BHILL		
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a	BHILL		
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a	7-10DAH		
2	MOP 0-0-62	GR	190 lb ai/a	306 lb/a	PPI	319 a	1.08
	TSP-PHOS*	GR	80 lb ai/a	178 lb/a	EMBAND		
	AS (21-0-0)-N*	GR	100 lb ai/a	476 lb/a	EMBAND		
	NU-TRAX P+*	GR	2 lb/a	2 lb/a	EMBAND		
	MOP 0-0-62*	GR	50 lb ai/a	81 lb/a	EMBAND		
	GYP SUM	GR	500 lb/a	500 lb/a	PPI		
	28% Nitrogen	AL	70 lb ai/a	23.3 gal/a	BHILL		
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a	BHILL		
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a	7-10DAH		
3	TSP-PHOS	GR	80 lb ai/a	178 lb/a	APBAND	304 a	1.08 a
	MOP 0-0-62	GR	190 lb ai/a	306 lb/a	PPI		
	MOP 0-0-62	GR	50 lb ai/a	81 lb/a	APBAND		
	GYP SUM	GR	500 lb/a	500 lb/a	PPI		
	Urea 46-0-0	GR	30 lb ai/a	65 lb/a	APBAND		
	AS (21-0-0)-N	GR	80 lb ai/a	380 lb/a	EMBAND		
	28% Nitrogen	AL	60 lb ai/a	20 gal/a	BHILL		
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a	BHILL		
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a	7-10DAH		

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.

Could not calculate LSD (% mean diff) for columns 11,13,14,25,28,29,40 because error mean square = 0.

MSU Soil Fertility Research Program

NU TRAX POTATO WITH COMPASS

Trial ID: PMRF04-17

Location: MRF Trial Year: 2017

Investigator: Kurt Steinke

Project ID: COMPTRAX

Crop Code						SOLTU	SOLTU
Crop Name						Potato	Potato
Crop Variety						FL 2137	FL 2137
Description						harvest	harvest
Rating Date						Sep-11-2017	Sep-11-2017
Rating Type						Total Yield	spec gravit
Rating Unit						CWT	
Crop Stage Scale							
ARM Action Codes						T4	ET2 T5
Number of Decimals						0	2
Trt No.	Treatment Name	Form Type	Rate Rate Unit	Other Rate	Other Rate Unit	Growth Stage	
						56	57
4	TSP-PHOS	GR	80 lb ai/a	178 lb/a		APBAND	
	MOP 0-0-62	GR	190 lb ai/a	306 lb/a		PPI	
	MOP 0-0-62	GR	50 lb ai/a	81 lb/a		APBAND	
	GYP SUM	GR	500 lb/a	500 lb/a		PPI	
	Urea 46-0-0	GR	30 lb ai/a	65 lb/a		APBAND	
	AS (21-0-0)-N*	GR	80 lb ai/a	380 lb/a		EMBAND	
	NU-TRAX P+*	GR	2 lb/a	2 lb/a		EMBAND	
	28% Nitrogen	AL	60 lb ai/a	20 gal/a		BHILL	
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a		BHILL	
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH	
						317 a	1.09 a
LSD P=.10						38.5	0.007
Standard Deviation						29.7	0.005
CV						9.47	0.47
Replicate F						1.689	0.354
Replicate Prob(F)						0.2382	0.7882
Treatment F						0.196	0.200
Treatment Prob(F)						0.8962	0.8239

Means followed by same letter or symbol do not significantly differ (P=.10, LSD)

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Could not calculate LSD (% mean diff) for columns 11,13,14,25,28,29,40 because error mean square = 0.

MSU Soil Fertility Research Program

NU TRAX POTATO WITH COMPASS

Trial ID: PMRF04-17

Location: MRF Trial Year: 2017

Investigator: Kurt Steinke

Project ID: COMPTRAX

Crop Code

SOLTU, BPOT, Solanum tuberosum, Potato = US

Rating Unit

ppm = parts per million

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

ARM Action Codes

AL = Automatic log transformation of X+1

AS = Automatic square root transformation of X+0.5

EC = Do not analyze untreated check, while still reporting treatment mean on AOV Means Table

ET4 = Excluded treatment 4

ET2 = Excluded treatment 2

TY1 = 16.33229*[C43]

TY2 = 16.33229*[C45]

TY3 = 16.33229*[C49]

T4 = [C53]+[C54]+[C55]

T5 = [C52]/([C52]-[C51])