

MSU Soil Fertility Research Program
RESPONSE OF POTATO TO VARIOUS POTASSIUM INPUTS
 Trial ID: PMRF01-17 Location: MRF Trial Year: 2017
 Investigator: Kurt Steinke

Project ID: POTPOT

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						P_percent	K_percent	Ca_percent	Mg_percent	
Rating Unit Crop Stage Scale ARM Action Codes Number of Decimals						percent 30 DAE	percent 30 DAE	percent 30 DAE	percent 30 DAE AA	
Trt No.	Treatment Name	Form Type	Rate	Other Rate	Other Rate Unit	Growth Stage	1	2	3	4
1	TSP-PHOS	GR	80 lb ai/a	178 lb/a		APBAND	0.36 a	5.51 e	1.07 a	0.91 a
	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				
	Urea 46-0-0	GR	60 lb ai/a	130 lb/a		BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH				
2	TSP-PHOS	GR	80 lb ai/a	178 lb/a		APBAND	0.38 a	6.55 d	0.97 b	0.74 b
	MOP 0-0-62	GR	100 lb ai/a	161 lb/a		PPI				
	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				
	Urea 46-0-0	GR	60 lb ai/a	130 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	0.36 a	7.75 c	0.91 bc	0.58 c
	MOP 0-0-62	GR	200 lb ai/a	323 lb/a		PPI				
	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				
	Urea 46-0-0	GR	60 lb ai/a	130 lb/a		BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH				
4	TSP-PHOS	GR	80 lb ai/a	178 lb/a		APBAND	0.33 a	8.56 b	0.90 bc	0.50 cde
	MOP 0-0-62	GR	300 lb ai/a	484 lb/a		PPI				
	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				
	Urea 46-0-0	GR	60 lb ai/a	130 lb/a		BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH				
5	TSP-PHOS	GR	80 lb ai/a	178 lb/a		APBAND	0.33 a	9.06 ab	0.93 bc	0.49 de
	MOP 0-0-62	GR	400 lb ai/a	645 lb/a		PPI				
	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				
	Urea 46-0-0	GR	60 lb ai/a	130 lb/a		BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH				

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Project ID: POTPOT

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									AA	
Number of Decimals										
Trt No.	Treatment Name	Form Type	Rate	Other Rate	Other Rate Unit	Growth Stage	1	2	3	4
6	TSP-PHOS	GR	80 lb ai/a	178 lb/a		APBAND	0.35 a	9.70 a	0.86 c	0.44 e
	MOP 0-0-62	GR	500 lb ai/a	810 lb/a		PPI				
	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				
	Urea 46-0-0	GR	60 lb ai/a	130 lb/a		BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH				
7	TSP-PHOS	GR	80 lb ai/a	178 lb/a		APBAND	0.34 a	8.78 b	0.91 bc	0.54 cd
	MOP 0-0-62	GR	200 lb ai/a	323 lb/a		PPI				
	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				
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a		BHILL				
	Urea 46-0-0	GR	60 lb ai/a	130 lb/a		BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH				
LSD P=.10							0.056	0.795	0.072	0.079 - 0.105
Standard Deviation							0.046	0.649	0.059	0.266t
CV							13.17	8.12	6.3	6.03t
Replicate F							4.405	3.196	2.233	7.463
Replicate Prob(F)							0.0172	0.0484	0.1193	0.0019
Treatment F							0.522	21.093	5.122	19.816
Treatment Prob(F)							0.7842	0.0001	0.0031	0.0001

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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 Crop Stage Scale ARM Action Codes Number of Decimals						percent 30 DAE AA	ppm 30 DAE AL	ppm 30 DAE	ppm 30 DAE
Trt No.	Treatment Name	Form Type	Rate Rate Unit	Other Other Rate Rate Unit	Growth Stage	5	6	7	8
1	TSP-PHOS	GR	80 lb ai/a	178 lb/a	APBAND	0.31 a	34.75 a	119.00 a	77.00 a
	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				
	Urea 46-0-0	GR	60 lb ai/a	130 lb/a	BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a	7-10DAH				
2	TSP-PHOS	GR	80 lb ai/a	178 lb/a	APBAND	0.28 b	29.42 a	111.00 a	66.00 a
	MOP 0-0-62	GR	100 lb ai/a	161 lb/a	PPI				
	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				
	Urea 46-0-0	GR	60 lb ai/a	130 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	0.27 b	30.95 a	110.25 a	64.75 a
	MOP 0-0-62	GR	200 lb ai/a	323 lb/a	PPI				
	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				
	Urea 46-0-0	GR	60 lb ai/a	130 lb/a	BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a	7-10DAH				
4	TSP-PHOS	GR	80 lb ai/a	178 lb/a	APBAND	0.24 c	30.57 a	103.50 a	57.25 a
	MOP 0-0-62	GR	300 lb ai/a	484 lb/a	PPI				
	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				
	Urea 46-0-0	GR	60 lb ai/a	130 lb/a	BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a	7-10DAH				
5	TSP-PHOS	GR	80 lb ai/a	178 lb/a	APBAND	0.23 c	28.44 a	96.25 a	51.50 a
	MOP 0-0-62	GR	400 lb ai/a	645 lb/a	PPI				
	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				
	Urea 46-0-0	GR	60 lb ai/a	130 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						AA	AL			
Number of Decimals										
Trt No.	Treatment Name	Form Type	Rate	Other Rate	Other Rate	Growth Unit Stage	5	6	7	8
6	TSP-PHOS	GR	80 lb ai/a	178 lb/a		APBAND	0.24 c	31.79 a	125.00 a	64.00 a
	MOP 0-0-62	GR	500 lb ai/a	810 lb/a		PPI				
	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				
	Urea 46-0-0	GR	60 lb ai/a	130 lb/a		BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH				
7	TSP-PHOS	GR	80 lb ai/a	178 lb/a		APBAND	0.23 c	34.29 a	145.25 a	58.50 a
	MOP 0-0-62	GR	200 lb ai/a	323 lb/a		PPI				
	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				
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a		BHILL				
	Urea 46-0-0	GR	60 lb ai/a	130 lb/a		BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH				
LSD P=.10						0.018 - 0.020	7.596 - 7.944	44.033	17.059	
Standard Deviation						0.086t	0.085t	35.911	13.913	
CV						2.96t	5.6t	31.02	22.18	
Replicate F						10.086	0.701	1.375	2.283	
Replicate Prob(F)						0.0004	0.5636	0.2823	0.1138	
Treatment F						15.899	0.547	0.801	1.357	
Treatment Prob(F)						0.0001	0.7662	0.5818	0.2841	

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Rating Type						Cu_ppm	B_ppm	Mo_ppm	Al_ppm	
Rating Unit Crop Stage Scale ARM Action Codes Number of Decimals						ppm 30 DAE	ppm 30 DAE	ppm 30 DAE	ppm 30 DAE	
Trt No.	Treatment Name	Form Type	Rate	Other Rate	Other Rate Unit	Growth Stage	9	10	11	12
1	TSP-PHOS	GR	80 lb ai/a	178 lb/a		APBAND	7.75 a	28.00 a	0.00 a	47.75 a
	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				
	Urea 46-0-0	GR	60 lb ai/a	130 lb/a		BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH				
2	TSP-PHOS	GR	80 lb ai/a	178 lb/a		APBAND	7.50 a	25.50 b	0.00 a	15.25 a
	MOP 0-0-62	GR	100 lb ai/a	161 lb/a		PPI				
	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				
	Urea 46-0-0	GR	60 lb ai/a	130 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	6.75 a	25.25 bc	0.00 a	30.75 a
	MOP 0-0-62	GR	200 lb ai/a	323 lb/a		PPI				
	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				
	Urea 46-0-0	GR	60 lb ai/a	130 lb/a		BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH				
4	TSP-PHOS	GR	80 lb ai/a	178 lb/a		APBAND	7.00 a	25.00 bc	0.00 a	29.50 a
	MOP 0-0-62	GR	300 lb ai/a	484 lb/a		PPI				
	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				
	Urea 46-0-0	GR	60 lb ai/a	130 lb/a		BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH				
5	TSP-PHOS	GR	80 lb ai/a	178 lb/a		APBAND	6.50 a	25.00 bc	0.00 a	29.75 a
	MOP 0-0-62	GR	400 lb ai/a	645 lb/a		PPI				
	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				
	Urea 46-0-0	GR	60 lb ai/a	130 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										
Number of Decimals										
Trt No.	Treatment Name	Form Type	Rate	Other Rate	Other Rate	Growth Unit	9	10	11	12
			Rate Unit			Stage				
6	TSP-PHOS	GR	80 lb ai/a	178 lb/a		APBAND	6.50 a	23.75 c	0.00 a	34.75 a
	MOP 0-0-62	GR	500 lb ai/a	810 lb/a		PPI				
	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				
	Urea 46-0-0	GR	60 lb ai/a	130 lb/a		BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH				
7	TSP-PHOS	GR	80 lb ai/a	178 lb/a		APBAND	7.25 a	25.00 bc	0.00 a	20.75 a
	MOP 0-0-62	GR	200 lb ai/a	323 lb/a		PPI				
	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				
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a		BHILL				
	Urea 46-0-0	GR	60 lb ai/a	130 lb/a		BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH				
LSD P=.10							1.025	1.508	.	24.987
Standard Deviation							0.836	1.230	0.000	20.378
CV							11.88	4.85	0.0	68.42
Replicate F							2.233	3.370	0.000	0.354
Replicate Prob(F)							0.1194	0.0414	1.0000	0.7870
Treatment F							1.364	4.402	0.000	1.030
Treatment Prob(F)							0.2816	0.0066	1.0000	0.4383

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Rating Type						N_percent	NO3N_percent	P_percent	K_percent	
Rating Unit Crop Stage Scale ARM Action Codes Number of Decimals						percent 45 DAE	percent 45 DAE	percent 45 DAE	percent 45 DAE	
Trt No.	Treatment Name	Form Type	Rate	Other Rate	Other Rate Unit	Growth Stage	13	14	15	16
1	TSP-PHOS	GR	80 lb ai/a	178 lb/a		APBAND	0.00 a	0.00 a	0.20 a	2.58 e
	GYPSUM	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				
	Urea 46-0-0	GR	60 lb ai/a	130 lb/a		BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH				
2	TSP-PHOS	GR	80 lb ai/a	178 lb/a		APBAND	0.00 a	0.00 a	0.20 a	3.47 d
	MOP 0-0-62	GR	100 lb ai/a	161 lb/a		PPI				
	GYPSUM	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				
	Urea 46-0-0	GR	60 lb ai/a	130 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	0.19 a	4.45 c
	MOP 0-0-62	GR	200 lb ai/a	323 lb/a		PPI				
	GYPSUM	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				
	Urea 46-0-0	GR	60 lb ai/a	130 lb/a		BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH				
4	TSP-PHOS	GR	80 lb ai/a	178 lb/a		APBAND	0.00 a	0.00 a	0.18 a	5.78 b
	MOP 0-0-62	GR	300 lb ai/a	484 lb/a		PPI				
	GYPSUM	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				
	Urea 46-0-0	GR	60 lb ai/a	130 lb/a		BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH				
5	TSP-PHOS	GR	80 lb ai/a	178 lb/a		APBAND	0.00 a	0.00 a	0.19 a	7.08 a
	MOP 0-0-62	GR	400 lb ai/a	645 lb/a		PPI				
	GYPSUM	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				
	Urea 46-0-0	GR	60 lb ai/a	130 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
RESPONSE OF POTATO TO VARIOUS POTASSIUM INPUTS
 Trial ID: PMRF01-17 Location: MRF Trial Year: 2017
 Investigator: Kurt Steinke

Project ID: POTPOT

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-20-2016	Jul-20-2016	Jul-20-2016	Jul-20-2016	
Rating Type						N_percent	NO3N_percent	P_percent	K_percent	
Rating Unit						percent	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	Other Rate	Other Rate	Growth Unit	13	14	15	16
6	TSP-PHOS	GR	80 lb ai/a	178 lb/a		APBAND	0.00 a	0.00 a	0.18 a	7.45 a
	MOP 0-0-62	GR	500 lb ai/a	810 lb/a		PPI				
	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				
	Urea 46-0-0	GR	60 lb ai/a	130 lb/a		BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH				
7	TSP-PHOS	GR	80 lb ai/a	178 lb/a		APBAND	0.00 a	0.00 a	0.19 a	5.90 b
	MOP 0-0-62	GR	200 lb ai/a	323 lb/a		PPI				
	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				
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a		BHILL				
	Urea 46-0-0	GR	60 lb ai/a	130 lb/a		BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH				
LSD P=.10						.	.	0.027	0.852	
Standard Deviation						0.000	0.000	0.022	0.695	
CV						0.0	0.0	11.8	13.25	
Replicate F						0.000	0.000	2.177	4.469	
Replicate Prob(F)						1.0000	1.0000	0.1261	0.0163	
Treatment F						0.000	0.000	0.540	27.421	
Treatment Prob(F)						1.0000	1.0000	0.7710	0.0001	

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MSU Soil Fertility Research Program
RESPONSE OF POTATO TO VARIOUS POTASSIUM INPUTS
 Trial ID: PMRF01-17 Location: MRF Trial Year: 2017
 Investigator: Kurt Steinke

Project ID: POTPOT

Crop Code Crop Name Crop Variety Description Rating Date						SOLTU Potato FL 2137 petiole Jul-20-2016	SOLTU Potato FL 2137 petiole Jul-20-2016	SOLTU Potato FL 2137 petiole Jul-20-2016	SOLTU Potato FL 2137 petiole Jul-20-2016
Rating Type Rating Unit Crop Stage Scale ARM Action Codes Number of Decimals						Ca_percent percent 45 DAE	Mg_percent percent 45 DAE	S_percent percent 45 DAE AA	Zn_ppm ppm 45 DAE AL
Trt No.	Treatment Name	Form Type	Rate Rate Unit	Other Other Rate Rate	Growth Unit Stage	17	18	19	20
1	TSP-PHOS	GR	80 lb ai/a	178 lb/a	APBAND	1.44 a	1.57 a	0.35 a	35.33 a
	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				
	Urea 46-0-0	GR	60 lb ai/a	130 lb/a	BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a	7-10DAH				
2	TSP-PHOS	GR	80 lb ai/a	178 lb/a	APBAND	1.38 a	1.45 a	0.29 b	32.21 a
	MOP 0-0-62	GR	100 lb ai/a	161 lb/a	PPI				
	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				
	Urea 46-0-0	GR	60 lb ai/a	130 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	1.42 a	1.22 b	0.28 b	32.98 a
	MOP 0-0-62	GR	200 lb ai/a	323 lb/a	PPI				
	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				
	Urea 46-0-0	GR	60 lb ai/a	130 lb/a	BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a	7-10DAH				
4	TSP-PHOS	GR	80 lb ai/a	178 lb/a	APBAND	1.35 a	1.15 b	0.24 c	28.64 a
	MOP 0-0-62	GR	300 lb ai/a	484 lb/a	PPI				
	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				
	Urea 46-0-0	GR	60 lb ai/a	130 lb/a	BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a	7-10DAH				
5	TSP-PHOS	GR	80 lb ai/a	178 lb/a	APBAND	1.34 a	0.91 c	0.25 c	26.22 a
	MOP 0-0-62	GR	400 lb ai/a	645 lb/a	PPI				
	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				
	Urea 46-0-0	GR	60 lb ai/a	130 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
 RESPONSE OF POTATO TO VARIOUS POTASSIUM INPUTS
 Trial ID: PMRF01-17 Location: MRF Trial Year: 2017
 Investigator: Kurt Steinke

Project ID: POTPOT

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-20-2016	Jul-20-2016	Jul-20-2016	Jul-20-2016	
Rating Type						Ca_percent	Mg_percent	S_percent	Zn_ppm	
Rating Unit						percent	percent	percent	ppm	
Crop Stage Scale						45 DAE	45 DAE	45 DAE	45 DAE	
ARM Action Codes								AA	AL	
Number of Decimals										
Trt No.	Treatment Name	Form Type	Rate	Other Rate	Other Rate	Growth Unit	Stage			
						17		18	19	20
6	TSP-PHOS	GR	80 lb ai/a	178 lb/a		APBAND	1.27 a	0.85 c	0.24 c	26.76 a
	MOP 0-0-62	GR	500 lb ai/a	810 lb/a		PPI				
	GYPSUM	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				
	Urea 46-0-0	GR	60 lb ai/a	130 lb/a		BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH				
7	TSP-PHOS	GR	80 lb ai/a	178 lb/a		APBAND	1.37 a	1.10 b	0.25 c	29.75 a
	MOP 0-0-62	GR	200 lb ai/a	323 lb/a		PPI				
	GYPSUM	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				
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a		BHILL				
	Urea 46-0-0	GR	60 lb ai/a	130 lb/a		BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH				
LSD P=.10						0.168	0.173	0.022 - 0.026	5.638 - 6.234	
Standard Deviation						0.137	0.141	0.104t	0.067t	
CV						10.03	12.02	3.49t	4.47t	
Replicate F						1.857	2.920	9.086	5.082	
Replicate Prob(F)						0.1731	0.0622	0.0007	0.0101	
Treatment F						0.650	13.991	17.598	1.964	
Treatment Prob(F)						0.6901	0.0001	0.0001	0.1248	

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MSU Soil Fertility Research Program
RESPONSE OF POTATO TO VARIOUS POTASSIUM INPUTS
 Trial ID: PMRF01-17 Location: MRF Trial Year: 2017
 Investigator: Kurt Steinke

Project ID: POTPOT

Crop Code Crop Name Crop Variety Description Rating Date						SOLTU Potato FL 2137 petiole Jul-20-2016	SOLTU Potato FL 2137 petiole Jul-20-2016	SOLTU Potato FL 2137 petiole Jul-20-2016	SOLTU Potato FL 2137 petiole Jul-20-2016
Rating Type Rating Unit Crop Stage Scale ARM Action Codes Number of Decimals						Mn_ppm ppm 45 DAE	Fe_ppm ppm 45 DAE	Cu_ppm ppm 45 DAE	B_ppm ppm 45 DAE
Trt No.	Treatment Name	Form Type	Rate Rate Unit	Other Other Rate Rate	Growth Unit Stage	21	22	23	24
1	TSP-PHOS	GR	80 lb ai/a	178 lb/a	APBAND	261.25 a	120.75 a	11.50 a	30.50 a
	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				
	Urea 46-0-0	GR	60 lb ai/a	130 lb/a	BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a	7-10DAH				
2	TSP-PHOS	GR	80 lb ai/a	178 lb/a	APBAND	234.00 a	114.25 a	9.50 bc	28.00 bc
	MOP 0-0-62	GR	100 lb ai/a	161 lb/a	PPI				
	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				
	Urea 46-0-0	GR	60 lb ai/a	130 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	261.50 a	99.75 a	9.75 ab	28.25 b
	MOP 0-0-62	GR	200 lb ai/a	323 lb/a	PPI				
	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				
	Urea 46-0-0	GR	60 lb ai/a	130 lb/a	BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a	7-10DAH				
4	TSP-PHOS	GR	80 lb ai/a	178 lb/a	APBAND	239.25 a	94.75 a	7.75 cd	26.25 cde
	MOP 0-0-62	GR	300 lb ai/a	484 lb/a	PPI				
	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				
	Urea 46-0-0	GR	60 lb ai/a	130 lb/a	BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a	7-10DAH				
5	TSP-PHOS	GR	80 lb ai/a	178 lb/a	APBAND	229.00 a	93.50 a	6.75 d	25.50 de
	MOP 0-0-62	GR	400 lb ai/a	645 lb/a	PPI				
	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				
	Urea 46-0-0	GR	60 lb ai/a	130 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
 RESPONSE OF POTATO TO VARIOUS POTASSIUM INPUTS
 Trial ID: PMRF01-17 Location: MRF Trial Year: 2017
 Investigator: Kurt Steinke

Project ID: POTPOT

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-20-2016	Jul-20-2016	Jul-20-2016	Jul-20-2016		
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											
Number of Decimals											
Trt No.	Treatment Name	Form Type	Rate	Other Rate	Other Rate	Growth Unit	Stage				
								21	22		
								23	24		
6	TSP-PHOS	GR	80 lb ai/a	178 lb/a		APBAND		251.75 a	89.75 a	7.00 d	24.75 e
	MOP 0-0-62	GR	500 lb ai/a	810 lb/a		PPI					
	GYPSUM	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					
	Urea 46-0-0	GR	60 lb ai/a	130 lb/a		BHILL					
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH					
7	TSP-PHOS	GR	80 lb ai/a	178 lb/a		APBAND		278.00 a	101.00 a	7.75 cd	27.25 bcd
	MOP 0-0-62	GR	200 lb ai/a	323 lb/a		PPI					
	GYPSUM	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					
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a		BHILL					
	Urea 46-0-0	GR	60 lb ai/a	130 lb/a		BHILL					
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH					
LSD P=.10								61.437	31.547	1.851	1.892
Standard Deviation								50.105	25.728	1.509	1.543
CV								19.99	25.23	17.61	5.67
Replicate F								4.209	4.549	2.634	2.260
Replicate Prob(F)								0.0202	0.0153	0.0812	0.1163
Treatment F								0.493	0.788	5.258	6.280
Treatment Prob(F)								0.8055	0.5906	0.0028	0.0011

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MSU Soil Fertility Research Program
 RESPONSE OF POTATO TO VARIOUS POTASSIUM INPUTS
 Trial ID: PMRF01-17 Location: MRF Trial Year: 2017
 Investigator: Kurt Steinke

Project ID: POTPOT

Crop Code Crop Name Crop Variety Description Rating Date						SOLTU Potato FL 2137 petiole Jul-20-2016	SOLTU Potato FL 2137 petiole Jul-20-2016	SOLTU Potato FL 2137 petiole Jul-20-2016	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 percent 45 DAE AA	N_percent percent 60 DAE
Trt No.	Treatment Name	Form Type	Rate Rate Unit	Other Other Rate Rate	Growth Unit Stage	25	26	27	28
1	TSP-PHOS GYPSUM Urea 46-0-0 AS (21-0-0)-N Urea 46-0-0 28% Nitrogen	GR GR GR GR GR AL	80 lb ai/a 500 lb/a 30 lb ai/a 80 lb ai/a 60 lb ai/a 55 lb ai/a	178 lb/a 500 lb/a 65 lb/a 380 lb/a 130 lb/a 18.3 gal/a	APBAND PPI APBAND EMBAND BHILL 7-10DAH	0.00 a	43.79 a	0.02 a	0.00 a
2	TSP-PHOS MOP 0-0-62 GYPSUM Urea 46-0-0 AS (21-0-0)-N Urea 46-0-0 28% Nitrogen	GR GR GR GR GR GR AL	80 lb ai/a 100 lb ai/a 500 lb/a 30 lb ai/a 80 lb ai/a 60 lb ai/a 55 lb ai/a	178 lb/a 161 lb/a 500 lb/a 65 lb/a 380 lb/a 130 lb/a 18.3 gal/a	APBAND PPI PPI APBAND EMBAND BHILL 7-10DAH	0.00 a	38.40 ab	0.01 a	0.00 a
3	TSP-PHOS MOP 0-0-62 GYPSUM Urea 46-0-0 AS (21-0-0)-N Urea 46-0-0 28% Nitrogen	GR GR GR GR GR GR AL	80 lb ai/a 200 lb ai/a 500 lb/a 30 lb ai/a 80 lb ai/a 60 lb ai/a 55 lb ai/a	178 lb/a 323 lb/a 500 lb/a 65 lb/a 380 lb/a 130 lb/a 18.3 gal/a	APBAND PPI PPI APBAND EMBAND BHILL 7-10DAH	0.00 a	33.13 abc	0.02 a	0.00 a
4	TSP-PHOS MOP 0-0-62 GYPSUM Urea 46-0-0 AS (21-0-0)-N Urea 46-0-0 28% Nitrogen	GR GR GR GR GR GR AL	80 lb ai/a 300 lb ai/a 500 lb/a 30 lb ai/a 80 lb ai/a 60 lb ai/a 55 lb ai/a	178 lb/a 484 lb/a 500 lb/a 65 lb/a 380 lb/a 130 lb/a 18.3 gal/a	APBAND PPI PPI APBAND EMBAND BHILL 7-10DAH	0.00 a	30.41 bc	0.01 a	0.00 a
5	TSP-PHOS MOP 0-0-62 GYPSUM Urea 46-0-0 AS (21-0-0)-N Urea 46-0-0 28% Nitrogen	GR GR GR GR GR GR AL	80 lb ai/a 400 lb ai/a 500 lb/a 30 lb ai/a 80 lb ai/a 60 lb ai/a 55 lb ai/a	178 lb/a 645 lb/a 500 lb/a 65 lb/a 380 lb/a 130 lb/a 18.3 gal/a	APBAND PPI PPI APBAND EMBAND BHILL 7-10DAH	0.00 a	19.51 d	0.01 a	0.00 a

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MSU Soil Fertility Research Program
 RESPONSE OF POTATO TO VARIOUS POTASSIUM INPUTS
 Trial ID: PMRF01-17 Location: MRF Trial Year: 2017
 Investigator: Kurt Steinke

Project ID: POTPOT

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-20-2016	Jul-20-2016	Jul-20-2016	Aug-4-2016
Rating Type						Mo_ppm	Al_ppm	Na_percent	N_percent
Rating Unit						ppm	ppm	percent	percent
Crop Stage Scale						45 DAE	45 DAE	45 DAE	60 DAE
ARM Action Codes							AL	AA	
Number of Decimals									
Trt No.	Treatment Name	Form Type	Rate	Other Rate	Other Rate	Growth Unit	Stage		
			Rate Unit					25	26
								27	28
6	TSP-PHOS	GR	80 lb ai/a	178 lb/a		APBAND		0.00 a	32.85 abc
	MOP 0-0-62	GR	500 lb ai/a	810 lb/a		PPI			
	GYPSUM	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			
	Urea 46-0-0	GR	60 lb ai/a	130 lb/a		BHILL			
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH			
7	TSP-PHOS	GR	80 lb ai/a	178 lb/a		APBAND		0.00 a	27.25 c
	MOP 0-0-62	GR	200 lb ai/a	323 lb/a		PPI			
	GYPSUM	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			
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a		BHILL			
	Urea 46-0-0	GR	60 lb ai/a	130 lb/a		BHILL			
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH			
LSD P=.10							7.039 - 11.444	0.003 - 0.004	
Standard Deviation						0.000	0.105t	0.068t	0.000
CV						0.0	6.92t	9.91t	0.0
Replicate F						0.000	6.074	30.079	0.000
Replicate Prob(F)						1.0000	0.0048	0.0001	1.0000
Treatment F						0.000	4.337	1.591	0.000
Treatment Prob(F)						1.0000	0.0070	0.2068	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
 RESPONSE OF POTATO TO VARIOUS POTASSIUM INPUTS
 Trial ID: PMRF01-17 Location: MRF Trial Year: 2017
 Investigator: Kurt Steinke

Project ID: POTPOT

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 EC	K_percent percent 60 DAE	Ca_percent percent 60 DAE
Trt No.	Treatment Name	Form Type	Rate Rate Unit	Other Other Rate Rate Unit	Growth Stage	29	30	31	32
1	TSP-PHOS GYPSUM Urea 46-0-0 AS (21-0-0)-N Urea 46-0-0 28% Nitrogen	GR GR GR GR GR AL	80 lb ai/a 500 lb/a 30 lb ai/a 80 lb ai/a 60 lb ai/a 55 lb ai/a	178 lb/a 500 lb/a 65 lb/a 380 lb/a 130 lb/a 18.3 gal/a	APBAND PPI APBAND EMBAND BHILL 7-10DAH	0.00 a	0.22	1.12 e	1.63 a
2	TSP-PHOS MOP 0-0-62 GYPSUM Urea 46-0-0 AS (21-0-0)-N Urea 46-0-0 28% Nitrogen	GR GR GR GR GR GR AL	80 lb ai/a 100 lb ai/a 500 lb/a 30 lb ai/a 80 lb ai/a 60 lb ai/a 55 lb ai/a	178 lb/a 161 lb/a 500 lb/a 65 lb/a 380 lb/a 130 lb/a 18.3 gal/a	APBAND PPI PPI APBAND EMBAND BHILL 7-10DAH	0.00 a	0.20 a	1.34 e	1.70 a
3	TSP-PHOS MOP 0-0-62 GYPSUM Urea 46-0-0 AS (21-0-0)-N Urea 46-0-0 28% Nitrogen	GR GR GR GR GR GR AL	80 lb ai/a 200 lb ai/a 500 lb/a 30 lb ai/a 80 lb ai/a 60 lb ai/a 55 lb ai/a	178 lb/a 323 lb/a 500 lb/a 65 lb/a 380 lb/a 130 lb/a 18.3 gal/a	APBAND PPI PPI APBAND EMBAND BHILL 7-10DAH	0.00 a	0.19 a	2.47 d	1.76 a
4	TSP-PHOS MOP 0-0-62 GYPSUM Urea 46-0-0 AS (21-0-0)-N Urea 46-0-0 28% Nitrogen	GR GR GR GR GR GR AL	80 lb ai/a 300 lb ai/a 500 lb/a 30 lb ai/a 80 lb ai/a 60 lb ai/a 55 lb ai/a	178 lb/a 484 lb/a 500 lb/a 65 lb/a 380 lb/a 130 lb/a 18.3 gal/a	APBAND PPI PPI APBAND EMBAND BHILL 7-10DAH	0.00 a	0.19 a	3.76 c	1.77 a
5	TSP-PHOS MOP 0-0-62 GYPSUM Urea 46-0-0 AS (21-0-0)-N Urea 46-0-0 28% Nitrogen	GR GR GR GR GR GR AL	80 lb ai/a 400 lb ai/a 500 lb/a 30 lb ai/a 80 lb ai/a 60 lb ai/a 55 lb ai/a	178 lb/a 645 lb/a 500 lb/a 65 lb/a 380 lb/a 130 lb/a 18.3 gal/a	APBAND PPI PPI APBAND EMBAND BHILL 7-10DAH	0.00 a	0.19 a	4.73 b	1.72 a

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MSU Soil Fertility Research Program
 RESPONSE OF POTATO TO VARIOUS POTASSIUM INPUTS
 Trial ID: PMRF01-17 Location: MRF Trial Year: 2017
 Investigator: Kurt Steinke

Project ID: POTPOT

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							EC			
Number of Decimals										
Trt No.	Treatment Name	Form Type	Rate	Other Rate	Other Rate	Growth Unit	Stage			
						29		30	31	32
6	TSP-PHOS	GR	80 lb ai/a	178 lb/a		APBAND	0.00 a	0.19 a	5.85 a	1.61 a
	MOP 0-0-62	GR	500 lb ai/a	810 lb/a		PPI				
	GYPSUM	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				
	Urea 46-0-0	GR	60 lb ai/a	130 lb/a		BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH				
7	TSP-PHOS	GR	80 lb ai/a	178 lb/a		APBAND	0.00 a	0.20 a	4.61 b	1.68 a
	MOP 0-0-62	GR	200 lb ai/a	323 lb/a		PPI				
	GYPSUM	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				
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a		BHILL				
	Urea 46-0-0	GR	60 lb ai/a	130 lb/a		BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH				
LSD P=.10						.	0.024	0.842	0.149	
Standard Deviation						0.000	0.019	0.686	0.121	
CV						0.0	10.07	20.13	7.14	
Replicate F						0.000	0.370	1.178	1.968	
Replicate Prob(F)						1.0000	0.7759	0.3458	0.1550	
Treatment F						0.000	0.426	27.867	1.002	
Treatment Prob(F)						1.0000	0.8235	0.0001	0.4538	

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MSU Soil Fertility Research Program
RESPONSE OF POTATO TO VARIOUS POTASSIUM INPUTS
 Trial ID: PMRF01-17 Location: MRF Trial Year: 2017
 Investigator: Kurt Steinke

Project ID: POTPOT

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 ppm 60 DAE ET4	Zn_ppm ppm 60 DAE AL	Mn_ppm ppm 60 DAE AL
Trt No.	Treatment Name	Form Type	Rate Rate Unit	Other Other Rate Rate	Growth Unit Stage	33	34	35	36
1	TSP-PHOS GYPSUM Urea 46-0-0 AS (21-0-0)-N Urea 46-0-0 28% Nitrogen	GR GR GR GR GR AL	80 lb ai/a 500 lb/a 30 lb ai/a 80 lb ai/a 60 lb ai/a 55 lb ai/a	178 lb/a 500 lb/a 65 lb/a 380 lb/a 130 lb/a 18.3 gal/a	APBAND PPI APBAND EMBAND BHILL 7-10DAH	2.62 a	0.40 a	35.74 a	377.36 a
2	TSP-PHOS MOP 0-0-62 GYPSUM Urea 46-0-0 AS (21-0-0)-N Urea 46-0-0 28% Nitrogen	GR GR GR GR GR GR AL	80 lb ai/a 100 lb ai/a 500 lb/a 30 lb ai/a 80 lb ai/a 60 lb ai/a 55 lb ai/a	178 lb/a 161 lb/a 500 lb/a 65 lb/a 380 lb/a 130 lb/a 18.3 gal/a	APBAND PPI PPI APBAND EMBAND BHILL 7-10DAH	2.43 ab	0.33 b	31.76 a	367.74 a
3	TSP-PHOS MOP 0-0-62 GYPSUM Urea 46-0-0 AS (21-0-0)-N Urea 46-0-0 28% Nitrogen	GR GR GR GR GR GR AL	80 lb ai/a 200 lb ai/a 500 lb/a 30 lb ai/a 80 lb ai/a 60 lb ai/a 55 lb ai/a	178 lb/a 323 lb/a 500 lb/a 65 lb/a 380 lb/a 130 lb/a 18.3 gal/a	APBAND PPI PPI APBAND EMBAND BHILL 7-10DAH	2.42 ab	0.30 bc	30.90 a	360.02 a
4	TSP-PHOS MOP 0-0-62 GYPSUM Urea 46-0-0 AS (21-0-0)-N Urea 46-0-0 28% Nitrogen	GR GR GR GR GR GR AL	80 lb ai/a 300 lb ai/a 500 lb/a 30 lb ai/a 80 lb ai/a 60 lb ai/a 55 lb ai/a	178 lb/a 484 lb/a 500 lb/a 65 lb/a 380 lb/a 130 lb/a 18.3 gal/a	APBAND PPI PPI APBAND EMBAND BHILL 7-10DAH	2.07 bc	0.25	28.76 a	403.83 a
5	TSP-PHOS MOP 0-0-62 GYPSUM Urea 46-0-0 AS (21-0-0)-N Urea 46-0-0 28% Nitrogen	GR GR GR GR GR GR AL	80 lb ai/a 400 lb ai/a 500 lb/a 30 lb ai/a 80 lb ai/a 60 lb ai/a 55 lb ai/a	178 lb/a 645 lb/a 500 lb/a 65 lb/a 380 lb/a 130 lb/a 18.3 gal/a	APBAND PPI PPI APBAND EMBAND BHILL 7-10DAH	1.63 d	0.25 d	24.05 a	334.34 a

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MSU Soil Fertility Research Program
 RESPONSE OF POTATO TO VARIOUS POTASSIUM INPUTS
 Trial ID: PMRF01-17 Location: MRF Trial Year: 2017
 Investigator: Kurt Steinke

Project ID: POTPOT

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	ppm	ppm	ppm	
Crop Stage Scale						60 DAE	60 DAE	60 DAE	60 DAE	
ARM Action Codes							ET4	AL	AL	
Number of Decimals										
Trt No.	Treatment Name	Form Type	Rate	Other Rate	Other Rate	Growth Unit	Stage			
						33		34	35	36
6	TSP-PHOS	GR	80 lb ai/a	178 lb/a		1.42 d	APBAND	0.23 d	26.06 a	345.87 a
	MOP 0-0-62	GR	500 lb ai/a	810 lb/a			PPI			
	GYPSUM	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			
	Urea 46-0-0	GR	60 lb ai/a	130 lb/a			BHILL			
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a			7-10DAH			
7	TSP-PHOS	GR	80 lb ai/a	178 lb/a		1.81 cd	APBAND	0.26 cd	32.55 a	415.90 a
	MOP 0-0-62	GR	200 lb ai/a	323 lb/a			PPI			
	GYPSUM	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			
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a			BHILL			
	Urea 46-0-0	GR	60 lb ai/a	130 lb/a			BHILL			
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a			7-10DAH			
LSD P=.10						0.383	0.043	8.095 - 8.974	104.493 - 112.164	
Standard Deviation						0.312	0.034	0.099t	0.102t	
CV						15.19	11.73	6.67t	3.98t	
Replicate F						2.429	1.330	3.470	2.252	
Replicate Prob(F)						0.0988	0.3017	0.0379	0.1171	
Treatment F						8.416	13.223	1.331	0.446	
Treatment Prob(F)						0.0002	0.0001	0.2944	0.8383	

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MSU Soil Fertility Research Program
 RESPONSE OF POTATO TO VARIOUS POTASSIUM INPUTS
 Trial ID: PMRF01-17 Location: MRF Trial Year: 2017
 Investigator: Kurt Steinke

Project ID: POTPOT

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	Cu_ppm ppm 60 DAE	B_ppm ppm 60 DAE AL	Mo_ppm ppm 60 DAE
Trt No.	Treatment Name	Form Type	Rate Rate Unit	Other Other Rate Rate	Growth Unit Stage	37	38	39	40
1	TSP-PHOS	GR	80 lb ai/a	178 lb/a	APBAND	166.25 a	17.00 a	34.42 a	0.00 a
	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				
	Urea 46-0-0	GR	60 lb ai/a	130 lb/a	BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a	7-10DAH				
2	TSP-PHOS	GR	80 lb ai/a	178 lb/a	APBAND	136.25 b	14.75 b	30.24 b	0.00 a
	MOP 0-0-62	GR	100 lb ai/a	161 lb/a	PPI				
	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				
	Urea 46-0-0	GR	60 lb ai/a	130 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	125.00 bc	13.00 b	30.40 b	0.00 a
	MOP 0-0-62	GR	200 lb ai/a	323 lb/a	PPI				
	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				
	Urea 46-0-0	GR	60 lb ai/a	130 lb/a	BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a	7-10DAH				
4	TSP-PHOS	GR	80 lb ai/a	178 lb/a	APBAND	115.25 bcd	10.00 c	28.73 bc	0.00 a
	MOP 0-0-62	GR	300 lb ai/a	484 lb/a	PPI				
	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				
	Urea 46-0-0	GR	60 lb ai/a	130 lb/a	BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a	7-10DAH				
5	TSP-PHOS	GR	80 lb ai/a	178 lb/a	APBAND	103.00 cd	8.75 c	27.97 cd	0.00 a
	MOP 0-0-62	GR	400 lb ai/a	645 lb/a	PPI				
	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				
	Urea 46-0-0	GR	60 lb ai/a	130 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
 RESPONSE OF POTATO TO VARIOUS POTASSIUM INPUTS
 Trial ID: PMRF01-17 Location: MRF Trial Year: 2017
 Investigator: Kurt Steinke

Project ID: POTPOT

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		
Number of Decimals										
Trt No.	Treatment Name	Form Type	Rate	Other Rate	Other Rate	Growth Unit Stage				
			Rate Unit				37	38	39	40
6	TSP-PHOS	GR	80 lb ai/a	178 lb/a		APBAND	104.00 cd	9.25 c	26.75 d	0.00 a
	MOP 0-0-62	GR	500 lb ai/a	810 lb/a		PPI				
	GYPSUM	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				
	Urea 46-0-0	GR	60 lb ai/a	130 lb/a		BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH				
7	TSP-PHOS	GR	80 lb ai/a	178 lb/a		APBAND	89.25 d	10.00 c	29.24 bc	0.00 a
	MOP 0-0-62	GR	200 lb ai/a	323 lb/a		PPI				
	GYPSUM	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				
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a		BHILL				
	Urea 46-0-0	GR	60 lb ai/a	130 lb/a		BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH				
LSD P=.10						29.852	1.975	1.830 - 2.192	.	
Standard Deviation						24.346	1.611	0.023t	0.000	
CV						20.31	13.63	1.52t	0.0	
Replicate F						1.918	2.766	1.948	0.000	
Replicate Prob(F)						0.1629	0.0718	0.1580	1.0000	
Treatment F						4.433	15.275	8.870	0.000	
Treatment Prob(F)						0.0064	0.0001	0.0001	1.0000	

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MSU Soil Fertility Research Program
RESPONSE OF POTATO TO VARIOUS POTASSIUM INPUTS
 Trial ID: PMRF01-17 Location: MRF Trial Year: 2017
 Investigator: Kurt Steinke

Project ID: POTPOT

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 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						Al_ppm percent 60 DAE	Na_percent percent 60 DAE	< 1 7/8" count	>3 1/4" count AA
Trt No.	Treatment Name	Form Type	Rate Rate Unit	Other Other Rate Rate	Growth Unit Stage	41	42	44	46
1	TSP-PHOS	GR	80 lb ai/a	178 lb/a	APBAND	76.00 a	0.01 a	36.50 a	0.47 a
	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				
	Urea 46-0-0	GR	60 lb ai/a	130 lb/a	BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a	7-10DAH				
2	TSP-PHOS	GR	80 lb ai/a	178 lb/a	APBAND	53.00 b	0.01 a	39.75 a	0.13 a
	MOP 0-0-62	GR	100 lb ai/a	161 lb/a	PPI				
	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				
	Urea 46-0-0	GR	60 lb ai/a	130 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	61.25 ab	0.01 a	28.25 a	0.13 a
	MOP 0-0-62	GR	200 lb ai/a	323 lb/a	PPI				
	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				
	Urea 46-0-0	GR	60 lb ai/a	130 lb/a	BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a	7-10DAH				
4	TSP-PHOS	GR	80 lb ai/a	178 lb/a	APBAND	59.75 b	0.01 a	36.75 a	0.06 a
	MOP 0-0-62	GR	300 lb ai/a	484 lb/a	PPI				
	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				
	Urea 46-0-0	GR	60 lb ai/a	130 lb/a	BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a	7-10DAH				
5	TSP-PHOS	GR	80 lb ai/a	178 lb/a	APBAND	53.50 b	0.01 a	34.00 a	0.66 a
	MOP 0-0-62	GR	400 lb ai/a	645 lb/a	PPI				
	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				
	Urea 46-0-0	GR	60 lb ai/a	130 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
 RESPONSE OF POTATO TO VARIOUS POTASSIUM INPUTS
 Trial ID: PMRF01-17 Location: MRF Trial Year: 2017
 Investigator: Kurt Steinke

Project ID: POTPOT

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						percent	percent	count	count	
Crop Stage Scale						60 DAE	60 DAE			
ARM Action Codes									AA	
Number of Decimals										
Trt No.	Treatment Name	Form Type	Rate Rate Unit	Other Rate	Other Rate	Growth Unit	Stage			
						41		42	44	46
6	TSP-PHOS	GR	80 lb ai/a	178 lb/a		APBAND	47.25 bc	0.01 a	35.00 a	0.25 a
	MOP 0-0-62	GR	500 lb ai/a	810 lb/a		PPI				
	GYPSUM	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				
	Urea 46-0-0	GR	60 lb ai/a	130 lb/a		BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH				
7	TSP-PHOS	GR	80 lb ai/a	178 lb/a		APBAND	37.00 c	0.01 a	32.00 a	2.01 a
	MOP 0-0-62	GR	200 lb ai/a	323 lb/a		PPI				
	GYPSUM	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				
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a		BHILL				
	Urea 46-0-0	GR	60 lb ai/a	130 lb/a		BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH				
LSD P=.10						15.665	0.004	9.978	1.702 - 1.893	
Standard Deviation						12.775	0.003	8.138	5.055t	
CV						23.06	30.19	23.51	140.84t	
Replicate F						2.544	2.400	0.520	0.625	
Replicate Prob(F)						0.0885	0.1016	0.6741	0.6082	
Treatment F						3.643	0.600	0.829	0.836	
Treatment Prob(F)						0.0152	0.7268	0.5627	0.5583	

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MSU Soil Fertility Research Program
RESPONSE OF POTATO TO VARIOUS POTASSIUM INPUTS
 Trial ID: PMRF01-17 Location: MRF Trial Year: 2017
 Investigator: Kurt Steinke

Project ID: POTPOT

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 CWT B's TY3 0	YIELD CWT OS AL TY2 0	YIELD CWT A's TY1 0
Trt No.	Treatment Name	Form Type	Rate Rate Unit	Other Other Rate Rate Unit	Growth Unit Stage	50	53	54	55
1	TSP-PHOS GYPSUM Urea 46-0-0 AS (21-0-0)-N Urea 46-0-0 28% Nitrogen	GR GR GR GR GR AL	80 lb ai/a 500 lb/a 30 lb ai/a 80 lb ai/a 60 lb ai/a 55 lb ai/a	178 lb/a 500 lb/a 65 lb/a 380 lb/a 130 lb/a 18.3 gal/a	APBAND PPI APBAND EMBAND BHILL 7-10DAH	125.25 c	35 a	2 a	281 c
2	TSP-PHOS MOP 0-0-62 GYPSUM Urea 46-0-0 AS (21-0-0)-N Urea 46-0-0 28% Nitrogen	GR GR GR GR GR GR AL	80 lb ai/a 100 lb ai/a 500 lb/a 30 lb ai/a 80 lb ai/a 60 lb ai/a 55 lb ai/a	178 lb/a 161 lb/a 500 lb/a 65 lb/a 380 lb/a 130 lb/a 18.3 gal/a	APBAND PPI PPI APBAND EMBAND BHILL 7-10DAH	137.25 bc	40 a	1 a	306 bc
3	TSP-PHOS MOP 0-0-62 GYPSUM Urea 46-0-0 AS (21-0-0)-N Urea 46-0-0 28% Nitrogen	GR GR GR GR GR GR AL	80 lb ai/a 200 lb ai/a 500 lb/a 30 lb ai/a 80 lb ai/a 60 lb ai/a 55 lb ai/a	178 lb/a 323 lb/a 500 lb/a 65 lb/a 380 lb/a 130 lb/a 18.3 gal/a	APBAND PPI PPI APBAND EMBAND BHILL 7-10DAH	146.00 ab	28 a	1 a	337 ab
4	TSP-PHOS MOP 0-0-62 GYPSUM Urea 46-0-0 AS (21-0-0)-N Urea 46-0-0 28% Nitrogen	GR GR GR GR GR GR AL	80 lb ai/a 300 lb ai/a 500 lb/a 30 lb ai/a 80 lb ai/a 60 lb ai/a 55 lb ai/a	178 lb/a 484 lb/a 500 lb/a 65 lb/a 380 lb/a 130 lb/a 18.3 gal/a	APBAND PPI PPI APBAND EMBAND BHILL 7-10DAH	140.75 b	37 a	1 a	339 ab
5	TSP-PHOS MOP 0-0-62 GYPSUM Urea 46-0-0 AS (21-0-0)-N Urea 46-0-0 28% Nitrogen	GR GR GR GR GR GR AL	80 lb ai/a 400 lb ai/a 500 lb/a 30 lb ai/a 80 lb ai/a 60 lb ai/a 55 lb ai/a	178 lb/a 645 lb/a 500 lb/a 65 lb/a 380 lb/a 130 lb/a 18.3 gal/a	APBAND PPI PPI APBAND EMBAND BHILL 7-10DAH	156.75 a	34 a	3 a	363 a

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MSU Soil Fertility Research Program
 RESPONSE OF POTATO TO VARIOUS POTASSIUM INPUTS
 Trial ID: PMRF01-17 Location: MRF Trial Year: 2017
 Investigator: Kurt Steinke

Project ID: POTPOT

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	YIELD	YIELD	
Rating Unit						count	CWT B's	CWT OS	CWT A's	
Crop Stage Scale										
ARM Action Codes							TY3	AL TY2	TY1	
Number of Decimals							0	0	0	
Trt No.	Treatment Name	Form Type	Rate Rate Unit	Other Rate	Other Rate Unit	Growth Stage				
							50	53	54	55
6	TSP-PHOS	GR	80 lb ai/a	178 lb/a		APBAND	147.25 ab	35 a	1 a	342 ab
	MOP 0-0-62	GR	500 lb ai/a	810 lb/a		PPI				
	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				
	Urea 46-0-0	GR	60 lb ai/a	130 lb/a		BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH				
7	TSP-PHOS	GR	80 lb ai/a	178 lb/a		APBAND	149.75 ab	31 a	9 a	359 a
	MOP 0-0-62	GR	200 lb ai/a	323 lb/a		PPI				
	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				
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a		BHILL				
	Urea 46-0-0	GR	60 lb ai/a	130 lb/a		BHILL				
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a		7-10DAH				
LSD P=.10						15.326	8.8	8.5 - 9.0	40.5	
Standard Deviation						12.499	7.2	0.6t	33.0	
CV						8.72	20.93	138.14t	9.92	
Replicate F						1.251	0.731	0.545	1.949	
Replicate Prob(F)						0.3208	0.5468	0.6580	0.1580	
Treatment F						2.621	1.091	0.715	3.118	
Treatment Prob(F)						0.0526	0.4050	0.6427	0.0283	

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MSU Soil Fertility Research Program
 RESPONSE OF POTATO TO VARIOUS POTASSIUM INPUTS
 Trial ID: PMRF01-17 Location: MRF Trial Year: 2017
 Investigator: Kurt Steinke

Project ID: POTPOT

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						Total	
Crop Stage Scale							
ARM Action Codes						T4	EC T5
Number of Decimals						0	2
Trt No.	Treatment Name	Form Type	Rate Rate Unit	Other Other Rate Rate Unit	Growth Stage		
1	TSP-PHOS	GR	80 lb ai/a	178 lb/a	APBAND	323 c	1.09
	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		
	Urea 46-0-0	GR	60 lb ai/a	130 lb/a	BHILL		
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a	7-10DAH		
2	TSP-PHOS	GR	80 lb ai/a	178 lb/a	APBAND	349 bc	1.09 a
	MOP 0-0-62	GR	100 lb ai/a	161 lb/a	PPI		
	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		
	Urea 46-0-0	GR	60 lb ai/a	130 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	368 b	1.09 a
	MOP 0-0-62	GR	200 lb ai/a	323 lb/a	PPI		
	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		
	Urea 46-0-0	GR	60 lb ai/a	130 lb/a	BHILL		
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a	7-10DAH		
4	TSP-PHOS	GR	80 lb ai/a	178 lb/a	APBAND	379 ab	1.09 a
	MOP 0-0-62	GR	300 lb ai/a	484 lb/a	PPI		
	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		
	Urea 46-0-0	GR	60 lb ai/a	130 lb/a	BHILL		
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a	7-10DAH		
5	TSP-PHOS	GR	80 lb ai/a	178 lb/a	APBAND	405 a	1.09 a
	MOP 0-0-62	GR	400 lb ai/a	645 lb/a	PPI		
	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		
	Urea 46-0-0	GR	60 lb ai/a	130 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
 RESPONSE OF POTATO TO VARIOUS POTASSIUM INPUTS
 Trial ID: PMRF01-17 Location: MRF Trial Year: 2017
 Investigator: Kurt Steinke

Project ID: POTPOT

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						Total	
Crop Stage Scale							
ARM Action Codes						T4	EC T5
Number of Decimals						0	2
Trt No.	Treatment Name	Form Type	Rate Rate Unit	Other Other Rate Rate	Growth Unit Stage	56	57
6	TSP-PHOS	GR	80 lb ai/a	178 lb/a	APBAND	383 ab	1.09 a
	MOP 0-0-62	GR	500 lb ai/a	810 lb/a	PPI		
	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		
	Urea 46-0-0	GR	60 lb ai/a	130 lb/a	BHILL		
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a	7-10DAH		
7	TSP-PHOS	GR	80 lb ai/a	178 lb/a	APBAND	407 a	1.09 a
	MOP 0-0-62	GR	200 lb ai/a	323 lb/a	PPI		
	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		
	MOP 0-0-62	GR	60 lb ai/a	97 lb/a	BHILL		
	Urea 46-0-0	GR	60 lb ai/a	130 lb/a	BHILL		
	28% Nitrogen	AL	55 lb ai/a	18.3 gal/a	7-10DAH		
LSD P=.10						37.0	0.007
Standard Deviation						30.1	0.006
CV						8.07	0.54
Replicate F						2.311	0.042
Replicate Prob(F)						0.1106	0.9879
Treatment F						4.003	0.849
Treatment Prob(F)						0.0101	0.5362

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RESPONSE OF POTATO TO VARIOUS POTASSIUM INPUTS
Trial ID: PMRF01-17 Location: MRF Trial Year: 2017
Investigator: Kurt Steinke
Project ID: POTPOT

Crop Code

SOLTU, BPOT, Solanum tuberosum, Potato = US

Rating Type

YIELD = yield

Rating Unit

ppm = parts per million

ARM Action Codes

AA = Automatic arcsine square root % transformation

AL = Automatic log transformation of X+1

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

ET4 = Excluded treatment 4

TY3 = 16.14204*[C43]

TY2 = 16.14204*[C45]

TY1 = 16.14204*[C49]

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

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