

MSU Soil Fertility Research Program

POTATO IN FURROW CONVENTIONAL AND LIQUID

Trial ID: PMRF03-14 Location: MRF Trial Year: 2014

Investigator: Kurt Steinke

Project ID: LIQUIDPOT

Crop Code Crop Name Crop Variety Description Rating Date Rating Type Rating Unit ARM Action Codes						SOLTU Potato FL 2137 harvest Sep-17-2014 YIELD/B'S CWT TY1	SOLTU Potato FL 2137 harvest Sep-17-2014 YIELD/OS CWT AL TY2	SOLTU Potato FL 2137 harvest Sep-17-2014 YIELD/A'S CWT TY3	SOLTU Potato FL 2137 harvest Sep-17-2014 Total Yield CWT T4	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Other Rate Unit	Growth Stage	49	50	51	52
1	MAP 11-52-0	52 GR		120 lb ai/a	230 lb/a	APFRBND	11.0 a	54.8 a	315.0 a	384.6 a
	K2O 0-0-62	62 GR		100 lb ai/a	161 lb/a	APFRBND				
	K2O 0-0-62	62 GR		50 lb ai/a	81 lb/a	PPI				
	AS (21-0-0-)N	21 GR		75 lb ai/a	357 lb/a	EMBAND				
	Urea 46-0-0	46 GR		25 lb ai/a	54.3 lb/a	APFRBND				
	Micro-500	AL		2 qt/a	2 qt/a	APFRBND				
	Urea 46-0-0	46 GR		150 lb ai/a	326 lb/a	BHILL				
2	K2O 0-0-62	62 GR		100 lb ai/a	161 lb/a	APFRBND	8.2 a	70.6 a	284.1 a	371.2 a
	K2O 0-0-62	62 GR		50 lb ai/a	81 lb/a	PPI				
	MAP 11-52-0	52 GR		40 lb ai/a	77 lb/a	APFRBND				
	10-34-0	AL		20 gal/a	20 gal/a	APFRBND				
	28% Nitrogen	3 AL		10 gal/a	10 gal/a	APFRBND				
	Micro-500	AL		2 qt/a	2 qt/a	APFRBND				
	AS (21-0-0-)N	21 GR		70 lb ai/a	333 lb/a	EMBAND				
	28% Nitrogen	3 AL		48 gal/a	48 gal/a	BHILL				
3	K2O 0-0-62	62 GR		100 lb ai/a	161 lb/a	APFRBND	10.1 a	56.5 a	285.6 a	354.4 a
	K2O 0-0-62	62 GR		50 lb ai/a	81 lb/a	PPI				
	Urea 46-0-0	46 GR		38 lb ai/a	83 lb/a	APFRBND				
	Pro-Germ	AL		12 gal/a	12 gal/a	APFRBND				
	Micro-500	AL		2 qt/a	2 qt/a	APFRBND				
	AS (21-0-0-)N	21 GR		75 lb ai/a	357 lb/a	EMBAND				
	Urea 46-0-0	46 GR		150 lb ai/a	326 lb/a	BHILL				
4	K2O 0-0-62	62 GR		100 lb ai/a	161 lb/a	APFRBND	8.2 a	65.0 a	266.0 a	342.0 a
	Pro-Germ	AL		12 gal/a	12 gal/a	APFRBND				
	High NRG-N	AL		10 gal/a	10 gal/a	APFRBND				
	Sure-K	AL		5 gal/a	5 gal/a	APFRBND				
	Micro-500	AL		2 qt/a	2 qt/a	APFRBND				
	AS (21-0-0-)N	21 GR		75 lb ai/a	357 lb/a	EMBAND				
	28%+ eNhance	3 AL		50 gal/a	50 gal/a	BHILL				
	eNhance40ml/g	AL				BHILL				

Means followed by same letter 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.

MSU Soil Fertility Research Program

POTATO IN FURROW CONVENTIONAL AND LIQUID

Trial ID: PMRF03-14 Location: MRF Trial Year: 2014

Investigator: Kurt Steinke

Project ID: LIQUIDPOT

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-17-2014	Sep-17-2014	Sep-17-2014	Sep-17-2014	
Rating Type							YIELD/B'S	YIELD/OS	YIELD/A'S	Total Yield	
Rating Unit							CWT	CWT	CWT	CWT	
ARM Action Codes							TY1	AL TY2	TY3	T4	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Other Rate	Other Rate Unit	Growth Stage				
	5 K2O 0-0-62	62	GR	100 lb ai/a	161 lb/a		APFRBND	9.6 a	57.8 a	262.8 a	338.4 a
	Pro-Germ		AL	12 gal/a	12 gal/a		APFRBND				
	High NRG-N		AL	10 gal/a	10 gal/a		APFRBND				
	Kalibrate		AL	5 gal/a	5 gal/a		APFRBND				
	Micro-500		AL	2 qt/a	2 qt/a		APFRBND				
	AS (21-0-0)-N	21	GR	75 lb ai/a	357 lb/a		EMBAND				
	28%+ eNhance	3	AL	50 gal/a	50 gal/a		BHILL				
	eNhance40ml/g		AL				BHILL				
	LSD (P=.10)							4.96	0.24t	50.06	51.26
	Standard Deviation							3.93	0.19t	39.73	40.68
	CV							41.75	10.68	14.05	11.36
	Bartlett's X2							4.862	1.75	0.618	0.574
	P(Bartlett's X2)							0.302	0.782	0.961	0.966
	Skewness							0.2497	0.2541	0.3301	-0.2502
	Kurtosis							0.3225	-0.4974	-1.3803	-1.3149
	Replicate F							1.807	1.236	6.138	6.063
	Replicate Prob(F)							0.1994	0.3396	0.0090	0.0094
	Treatment F							0.381	0.226	1.096	0.929
	Treatment Prob(F)							0.8182	0.9184	0.4023	0.4792

Crop Code

SOLTU, BPOT, Solanum tuberosum, = US

Rating Unit

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

ARM Action Codes

AL = Automatic log transformation of X+1

TY1 = 7.329632*[C36]

TY2 = LOG([50]+ 1)

TY3 = 7.329632*[C42]

T4 = [C49]+[C50]+[C51]