

MSU Soil Fertility Research Program

THE EFFECT OF NITROGEN RATE AND SOURCE ON YIELD, 2012

Trial ID: PMRF02-12 Location: MRF-FL2137 Trial Year:
 Protocol ID: PMRF02-12 Investigator: Kurt Steinke
 Project ID: PMRF02-12 Study Director:
 Sponsor Contact:

Crop Code							SOLTU
Crop Name							Potato
Crop Variety							FL 2137
Description							harvest
Rating Date							Sep-13-2011
Rating Type							Total Yield
Rating Unit							CWT
Crop Stage Scale							
ARM Action Codes							T3
Number of Decimals							0
Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Growth Stage	Appl Code	24
2	UREA 46-0-0	25 lb ai/a	54.3 lb/a		PPI	A	393 a
	MAP 11-52-0	52 lb ai/a	100 lb/a		PPI	A	
	K2O 0-0-62	150 lb ai/a	242 lb/a		PPI	A	
	ESN 44-0-0	200 lb ai/a	455 lb/a		EMERGE	B	
3	UREA 46-0-0	25 lb ai/a	54.3 lb/a		PPI	A	382 a
	MAP 11-52-0	52 lb ai/a	100 lb/a		PPI	A	
	K2O 0-0-62	150 lb ai/a	242 lb/a		PPI	A	
	ESN 44-0-0	250 lb ai/a	570 lb/a		EMERGE	B	
4	UREA 46-0-0	25 lb ai/a	54.3 lb/a		PPI	A	385 a
	MAP 11-52-0	52 lb ai/a	100 lb/a		PPI	A	
	K2O 0-0-62	150 lb ai/a	242 lb/a		PPI	A	
	UREA 46-0-0	67 lb ai/a	146 lb/a		EMERGE	B	
	UREA 46-0-0	133 lb ai/a	290 lb/a		HIILLING	C	
5	UREA 46-0-0	25 lb ai/a	54.3 lb/a		PPI	A	363 a
	MAP 11-52-0	52 lb ai/a	100 lb/a		PPI	A	
	K2O 0-0-62	150 lb ai/a	242 lb/a		PPI	A	
	UREA 46-0-0	83 lb ai/a	180 lb/a		EMERGE	B	
	UREA 46-0-0	167 lb ai/a	363 lb/a		HIILLING	C	
6	UREA 46-0-0	25 lb ai/a	54.3 lb/a		PPI	A	411 a
	MAP 11-52-0	52 lb ai/a	100 lb/a		PPI	A	
	K2O 0-0-62	150 lb ai/a	242 lb/a		PPI	A	
	ASN 26-0-0	67 lb ai/a	258 lb/a		EMERGE	B	
	ASN 26-0-0	133 lb ai/a	510 lb/a		HIILLING	C	
7	UREA 46-0-0	25 lb ai/a	54.3 lb/a		PPI	A	377 a
	MAP 11-52-0	52 lb ai/a	100 lb/a		PPI	A	
	K2O 0-0-62	150 lb ai/a	242 lb/a		PPI	A	
	ASN 26-0-0	83 lb ai/a	320 lb/a		EMERGE	B	
	ASN 26-0-0	167 lb ai/a	640 lb/a		HIILLING	C	
LSD (P=.05)							44.4
Standard Deviation							29.5
CV							7.65

Means followed by same letter do not significantly differ (P=.05, LSD)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Randomized Complete Block (RCB) AOV For SOLTU Potato FL 2137 harvest Sep-13-2011 Total Yield CWT T3 0 (Data Column 24)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	23	29983.906649			
Replicate	3	11739.468078	3913.156026	4.507	0.0191
Treatment	5	5221.315460	1044.263092	1.203	0.3546
Error	15	13023.123111	868.208207		

Crop Code

SOLTU, BPOT, Solanum tuberosum, = US

Rating Unit

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

ARM Action Codes

T3 = [C21]+[C22]+[C23]