

MSU Soil Fertility Research Program  
 TO EVALUATE THE RESPONSE OF SOYBEAN TO MAP, MOP, K-MAG, AND MICROESSENTIALS (MES)  
 Trial ID: SOYEL02-17      Location: Campus      Trial Year: 2017  
 Investigator: Kurt Steinke

Project ID: MOKmag

Crop Code	GLXMA	GLXMA	GLXMA						
Crop Name	Soybean	Soybean	Soybean						
Crop Variety	P24T05R	P24T05R	P2405R						
Description	1 meter of row		bu/ac@13.5%						
Rating Date	Oct-3-2017	Oct-3-2017	Oct-2-2017						
Rating Type	Stand Count	LODGIN	YIELD						
Rating Unit	NUMBER	% Failed	BU						
ARM Action Codes			TY1						
Number of Decimals	0		0						
Trt No.	Treatment Name	Form Type	Rate Rate Unit	Other Rate	Other Rate Unit	Growth Stage	1	2	6
1	CHECK						24 a	0.00 a	42 a
2	K20 0-0-62	GR	60 lb ai/a	97 lb/a		PPI	25 a	0.00 a	44 a
3	K20 0-0-62 K-Mag (22S)	GR GR	50 lb ai/a 10 lb ai/a	81 lb/a 45.5 lb/a		PPI PPI	24 a	0.00 a	41 a
4	K20 0-0-62 K-Mag (22S)	GR GR	40 lb ai/a 20 lb ai/a	64.5 lb/a 91 lb/a		PPI PPI	25 a	0.00 a	41 a
5	MAP 11-52-0 K20 0-0-62	GR GR	40 lb ai/a 60 lb ai/a	77 lb/a 97 lb/a		PPI PPI	24 a	0.00 a	43 a
6	MAP 11-52-0 K20 0-0-62 K-Mag (22S)	GR GR GR	40 lb ai/a 50 lb ai/a 10 lb ai/a	77 lb/a 81 lb/a 45.5 lb/a		PPI PPI PPI	24 a	0.00 a	40 a
7	MAP 11-52-0 K20 0-0-62 K-Mag (22S)	GR GR GR	40 lb ai/a 40 lb ai/a 20 lb ai/a	77 lb/a 64.5 lb/a 91 lb/a		PPI PPI PPI	24 a	0.00 a	43 a
8	MES10 K20 0-0-62 K-Mag (22S)	GR GR GR	40 lb ai/a 50 lb ai/a 10 lb ai/a	100 lb/a 81 lb/a 45.5 lb/a		PPI PPI PPI	23 a	0.00 a	40 a
9	MESZ K20 0-0-62 K-Mag (22S)	GR GR GR	40 lb ai/a 50 lb ai/a 10 lb ai/a	100 lb/a 81 lb/a 45.5 lb/a		PPI PPI PPI	23 a	0.00 a	42 a
LSD P=.05			2.2						8.5
Standard Deviation			1.5					0.000	5.8
CV			6.32					0.0	13.88
Replicate F			0.175					0.000	0.505
Replicate Prob(F)			0.9122					1.0000	0.6823
Treatment F			0.580					0.000	0.194
Treatment Prob(F)			0.7838					1.0000	0.9893

Crop Code  
 GLXMA, BSOY, Glycine max, Soybean = US  
Rating Type  
 LODGIN = lodging  
 YIELD = yield  
Rating Unit  
 NUMBER = number  
 BU = bushel  
ARM Action Codes  
 TY1 = 3.63\*[3]\*(100-[4])/86.5

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)  
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.  
 Could not calculate LSD (% mean diff) for columns 2 because error mean square = 0.