

Table 3. Influence of gypsum on select soybean variables.

Treatment	Emergence and related measurements				Tissue nutrient and yield measurements					
	Stand				Tissue nutrient content ⁽²⁾			Grain	Test	
	3 DAE ⁽¹⁾ (plants/a)	6 DAE (plants/a)	30 DAE (plants/a)	Harvest (plants/a)	N (%)	Ca (%)	S (%)	Moisture (%)	Weight (lb/bu)	Yield (Bu/a)
No gypsum	117,500		134,516		4.05	0.95	0.21	12.0	54.2	46.0
Gypsum, half-rate	120,125		139,449		4.00	0.95	0.21	12.0	54.2	47.2
Gypsum, full-rate	121,188		129,664		3.96	0.93	0.20	12.0	54.4	45.9
Sulfur, unlimited					4.11	0.94	0.22	12.0	54.6	42.8
ANOVA										
Source	df	p > f			df	p > f				
Year	1	<0.001			1	<0.001			0.074	
Tmt	2	0.631			3	0.706			0.504	
Tmt x Year	2	0.520			3	0.738			0.148	
cv(%)		6.5				5.7			1.1	
2021										
Mean		180,625		199,364		3.43	1.02	0.19	9.8	54.6
No gypsum		179,375		195,699		3.47	1.05	0.18	9.73	54.1
Gypsum, half-rate		182,875		205,231		3.31	1.04	0.19	9.75	54.3
Gypsum, full-rate		179,625		197,161		3.37	0.98	0.18	9.75	54.8
Sulfur, unlimited						3.55	1.01	0.19	9.73	55.2
p>f	2	0.575			3	0.646			0.976	0.213
cv(%)		2.8				7.2			1.1	1.3
2022										
Mean		58,583		69,722		4.63	0.86	0.23	14.2	54.2
No gypsum		55,625	64,625	68,625	53,500	4.62	0.85	0.23	14.2	54.3
Gypsum, half-rate		57,375	72,625	75,875	54,375	4.69	0.85	0.24	14.2	54.2
Gypsum, full-rate		62,750	70,750	65,375	56,875	4.54	0.87	0.21	14.3	54.1
Sulfur, unlimited						4.66	0.87	0.24	14.3	54.1
p>f	2	0.589	0.634	0.579	0.839	3	0.845	0.837	0.160	0.418
cv(%)		16.6	17.2	19.8	15.0		4.6	4.5	7.6	0.8
										11.5

(1) DAE: days after emergence

(2) Tissue nutrient concentration (dry matter basis) measured at R3.

Grain yield reported at 13% moisture.