

Table 4. Effect of row cleaning on soybean plant population, tissue nutrients at flowering and grain yield, 2024.

Level of Row cleaning	Stand			Tissue nutrient, R1				Grain	Test	Yield (bu/a)
	30 DAE (p/acre)	R1 (p/acre)	Harv. (p/acre)	N (%)	P (%)	K (%)	S (%)	Moist. (%)	Wt. (lb/bu)	
	----- x 1,000 -----									
None	104.6	102.5	102.5	5.15	0.43	2.25	0.25	10.1	56.7	40.2
Intermediate	103.1	101.3	98.3	4.90	0.44	2.25	0.24	10.2	56.6	40.6
Full	103.7	100.7	100.4	4.68	0.41	2.25	0.24	10.3	56.3	33.5
<i>Isd (0.05)</i>	-	-	-	0.35	-	-	-	0.1	-	2.5
ANOVA										
Row cleaning, <i>p</i>	0.937	0.957	0.859	0.047	0.304	0.515	0.444	0.024	0.343	<0.001
<i>cv (%)</i>	5.6	6.1	10.6	3.1	3.8	1.9	4.1	0.6	0.7	3.8
Contrast "Up vs. Down"										
Up	104.6	102.5	102.5	5.15	0.43	2.25	0.25	10.1	56.7	40.2
Down	103.4	101.0	99.3	4.79	0.43	2.25	0.24	10.3	56.5	37.1
Contrast, <i>p value</i>	0.804	0.844	0.685	0.051	0.775	0.516	0.184	0.063	0.147	0.047

The "Up vs. down" contrast combines the two row cleaning options, comparing row cleaning as a whole to no row cleaning.

R1, initiation of flowering.

DAE, days after emergence.

Grain yield reported at 13% moisture

Tissue nutrient sufficiency ranges (%): N, 4.20-5.40; P, 0.30-0.70; K, 2.15-3.25; S, 0.38-0.50