

**Table 3. Effect of row cleaning on corn plant population, tissue nutrients at flowering and grain yield, 2024-2025.**

Level of Row cleaning	Stand		Peepers* 30DAE (%)	Tissue nutrient, R1**				Grain Moist. (%)	Test Wt. (lb/bu)	Yield (bu/a)
	30 DAE (p/acre)	Harv. (p/acre)		N (%)	P (%)	K (%)	S (%)			
None	30,438	26,750	8.6	2.47	0.31	1.95	0.15	17.1	54.5	185.3
Intermediate	29,438	28,063	8.6	2.63	0.33	1.88	0.16	17.2	54.6	181.4
Full	29,500	26,375	8.9	2.63	0.32	1.90	0.16	17.2	54.6	187.3
<b>ANOVA</b>	----- <i>p</i> -----									
<i>Year</i>	<i>0.849</i>	<i>0.072</i>	<i>0.560</i>	<i>&lt;0.001</i>	<i>&lt;0.001</i>	<i>&lt;0.001</i>	<i>0.132</i>	<i>&lt;0.001</i>	<i>&lt;0.001</i>	<i>&lt;0.001</i>
<i>Row cleaning</i>	<i>0.391</i>	<i>0.486</i>	<i>0.931</i>	<i>0.175</i>	<i>0.615</i>	<i>0.301</i>	<i>0.402</i>	<i>0.895</i>	<i>0.756</i>	<i>0.703</i>
<i>Row cleaning*Year</i>	<i>0.132</i>	<i>0.489</i>	<i>0.250</i>	<i>0.045</i>	<i>0.947</i>	<i>0.452</i>	<i>0.177</i>	<i>0.103</i>	<i>0.756</i>	<i>0.183</i>
<i>cv (%)</i>	<i>7.3</i>	<i>13.3</i>	<i>64.8</i>	<i>19.3</i>	<i>11.9</i>	<i>12.1</i>	<i>9.9</i>	<i>9.9</i>	<i>2.8</i>	<i>11.4</i>
<b>Contrast "Up vs. Down"</b>										
Up	30,438	26,750	8.6	2.47	0.31	1.95	0.15	17.1	54.5	185.3
Down	29,469	27,219	8.8	2.63	0.33	1.89	0.16	17.2	54.6	184.3
<i>Contrast p value</i>	<i>0.055</i>	<i>0.720</i>	<i>0.966</i>	<i>0.024</i>	<i>0.072</i>	<i>0.240</i>	<i>0.053</i>	<i>0.790</i>	<i>0.770</i>	<i>0.871</i>

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

\*Peepers, corn plants with delayed development due to later emergence. See text.

\*\* Tissue nutrient sufficiency ranges (%): N, 2.50-3.33; P, 0.25-0.34; K, 1.75-2.63; S, 0.16-0.25

R1, initiation of flowering.

DAE, days after emergence.

Grain yield reported at 15% moisture.