



## Corn Planting Rate

Trial ID: 2021-CRNP09A — R.M. of Springfield

**Objective:** The purpose of this project is to quantify the agronomic and economic impacts of reducing and increasing normal planting rate in corn.

TRIAL INFORMATION	
Location	Hazelridge
Previous Crop	Soybeans
Soil Texture	Clay
Tillage	Conventional Tillage
Planting Date	May 05, 2021
Fertilizer (N-P-K-S)	120N 50P 60K 23S
Variety	NS 178
Row Spacing	15"
Planting Rate (seeds/ac)	32K, 35K & 38K
Harvest Date	October 19, 2021

SOIL PROPERTIES†			
N 0-24"	P (ppm)	K (ppm)	% O.M.
146	37	400	7.4

†Nutrient values prior to spring seeding

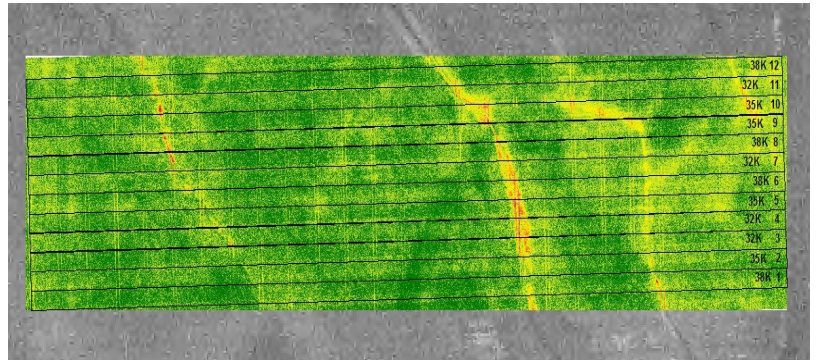
PLANT STAND @ V2			
Planting Rate (seeds/ac)	32,000	35,000	38,000
Plants/acre	32,500	33,000	38,000

PRECIPITATION†					
	May	June	July	Aug	Total
Rainfall	55	45	20	93	179
Normal	52	84	81	77	294

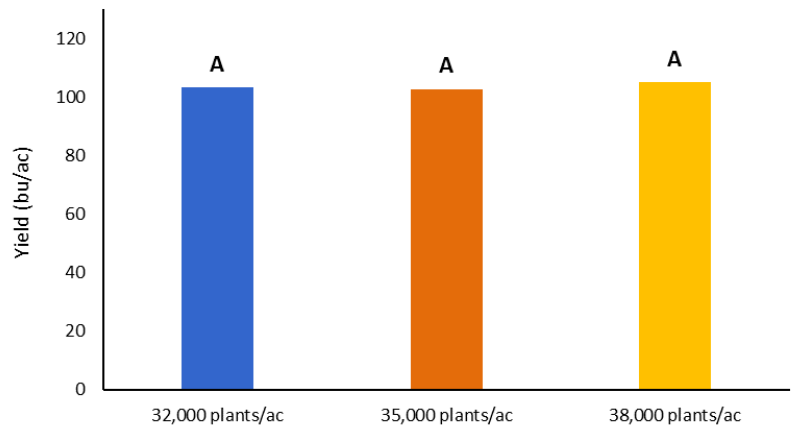
†Growing season precipitation (mm) - May 01—Aug 31

OVERALL YIELD	
	Mean (bu/ac)
32,000 plants/ac	103.1 <sup>A</sup>
35,000 plants/ac	102.7 <sup>A</sup>
38,000 plants/ac	105.0 <sup>A</sup>
P-Value	0.9282
CV	8.50%
Significance	No

## FIELD IMAGE



## YIELD BY TREATMENT



**Summary:** There was no significant difference in yield or plant stands at V2 between the 32,000, 35,000 and 38,000 seeds/acre planting rates. Rainfall was well below average throughout the growing season.



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