

## Corn Seed Rate

Trial ID: 2020-CRNP06 — R.M. of Rhineland

**Objective:** The purpose of this project is to quantify the agronomic and economic impacts of reducing and increasing normal seeding rate by 3,000 seeds/ac in corn.

TRIAL INFORMATION	
Location	Plum Coulee
Previous Crop	Dry Beans
Soil Texture	Fine Loam
Tillage	Conventional
Planting Date	May 15, 2020
Fertilizer (N-P-K-S)	160N 12P 10S
Variety	9212-10
Row Spacing	10"
Seed Rate (seeds/ac)	42k vs 39k vs 45k
Harvest Date	October 15, 2020

SOIL PROPERTIES†			
N 0-24"	P (ppm)	K (ppm)	% O.M.
253	42	265	3.3

†Nutrient values measured at V2

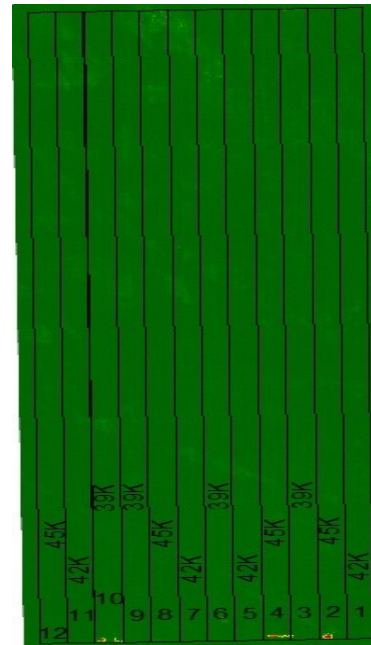
PLANT STAND @ V2			
Seed Rate (seeds/ac)	39,000	42,000	45,000
Plant stand/ac	36,500 <sup>B</sup>	40,250 <sup>A</sup>	42,000 <sup>A</sup>

PRECIPITATION†					
	May	June	July	Aug	Total
Rainfall	31	48	108	35	<b>222</b>
Normal	63	90	63	73	<b>288</b>

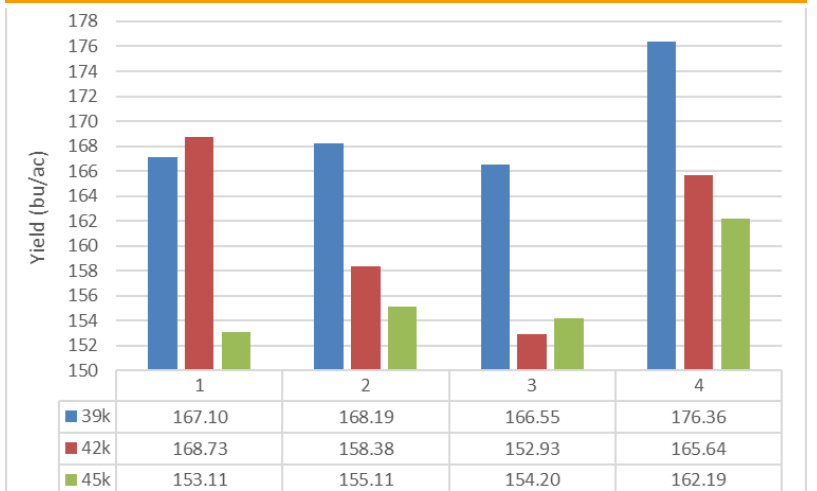
†Growing season precipitation (mm)

OVERALL YIELD	
	Mean (bu/ac)
39,000 seeds/ac	169.6 <sup>A</sup>
42,000 seeds/ac	161.4 <sup>B</sup>
45,000 seeds/ac	156.2 <sup>B</sup>
P-Value	0.00955
CV	2.49%
Significance	Yes

## FIELD IMAGE - AUG 17, 2020



## STRIP YIELD



**Summary:** There was a significant difference in yield between the 39,000 and the 42,000 and 45,000 seeds/acre seeding rates. There was a statistical difference in plant stands taken at V2. Overall, rainfall was below average throughout the growing season.