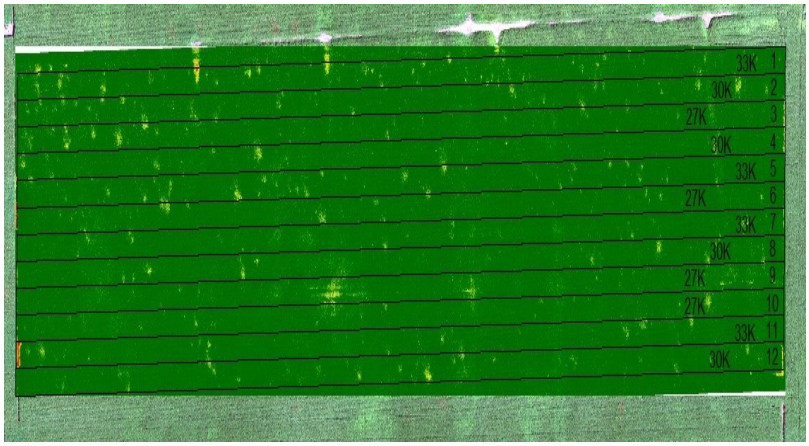
Corn Seed Rate

Trial ID: 2020-CRNP08 — R.M. of De Salaberry

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	St. Pierre
Previous Crop	Soybeans
Soil Texture	Clay
Tillage	Conventional
Planting Date	May 17, 2020
Fertilizer (N-P-K-S)	Swine Manure - Fall 2019
Variety	P7453R
Row Spacing	22”
Seed Rate (seeds/ac)	30k vs 27k vs 34k
Harvest Date	October 13, 2020

FIELD IMAGE - AUG 19, 2020



SOIL PROPERTIES†

N 0-24”	P (ppm)	K (ppm)	% O.M.
298	82	519	6.0

†Nutrient values prior to spring seeding

PLANT STAND @ V2

Seed Rate (seeds/ac)	27,000	30,000	34,000
Plant stand/ac	23,500^{B}	24,740^{B}	28,250^{A}

PRECIPITATION†

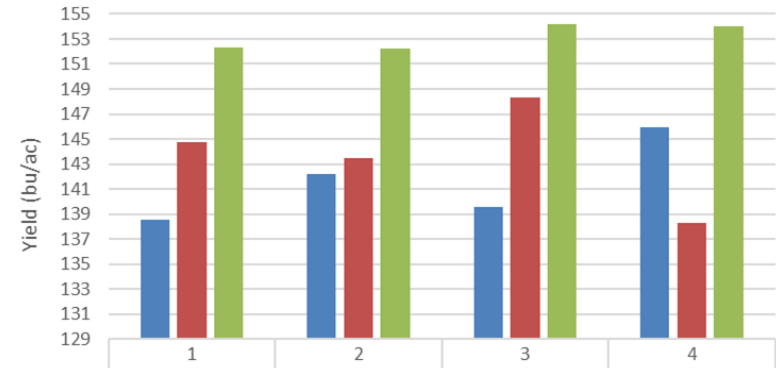
	May	June	July	Aug	Total
Rainfall	15	105	102	68	**290**
Normal	56	90	61	61	**269**

†Growing season precipitation (mm)

OVERALL YIELD

	Mean (bu/ac)
27,000 seeds/ac	141.6^{A}
30,000 seeds/ac	143.7^{A}
34,000 seeds/ac	153.2^{B}
P-Value	0.00897
CV	4.10%
Significance	**Yes**

STRIP YIELD



Summary: There was a significant difference in yield between the 34,000 seeds/acre seeding rate versus the 30,000 and 27,000 seeds/ acre seeding rates. There was a significant difference in plant stands taken at V2. Overall, rainfall was slightly above average for the growing season, with a hail storm occurring at V2 (see NDVI image above).

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