Corn Seed Rate

Trial ID: 2020-CRNP05 — 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	Otterburne
Previous Crop	Canola
Soil Texture	Clay
Tillage	Conventional
Planting Date	May 16, 2020
Fertilizer (N-P-K-S)	Swine Manure - Fall 2019
Variety	P7861YHR
Row Spacing	22”
Seed Rate (seeds/ac)	33k vs 30k vs 36k
Harvest Date	October 15, 2020

SOIL PROPERTIES†

N 0-24”	P (ppm)	K (ppm)	% O.M.
110	54	295	5.5

†Nutrient values prior to spring seeding

PLANT STAND @ V2

Seed Rate (seeds/ac)	30,000	33,000	36,000
Plant stand/ac	27,250	29,750	28,250

PRECIPITATION†

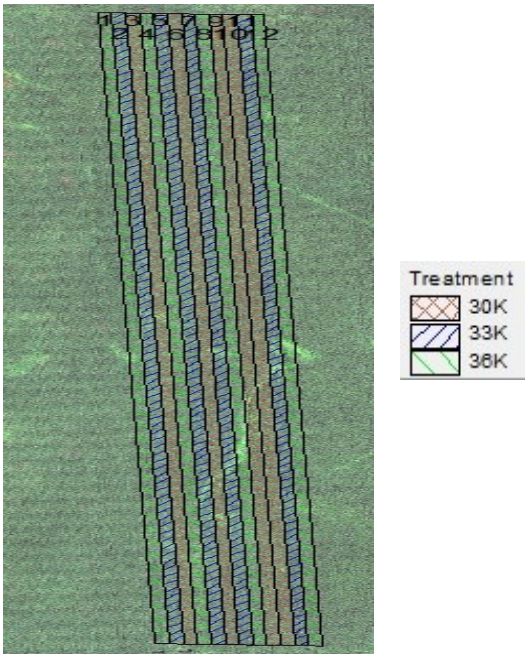
	May	June	July	Aug	Total
Rainfall	15	105	102	68	**290**
Normal	56	90	61	61	**269**

†Growing season precipitation (mm)

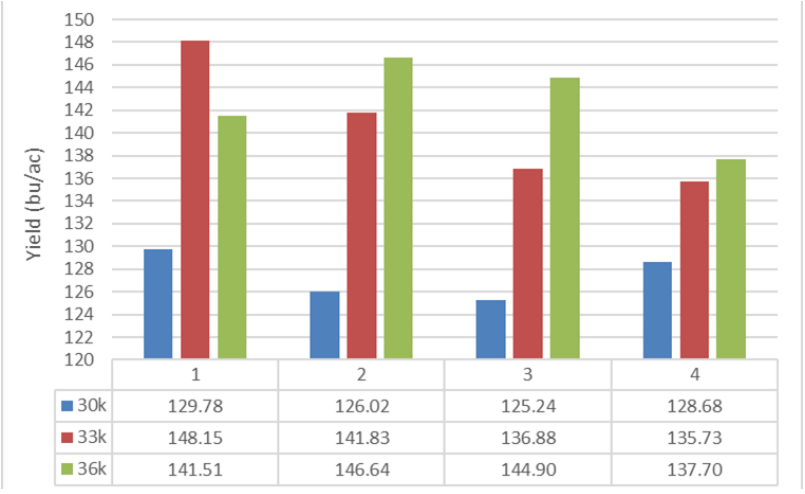
OVERALL YIELD

	Mean (bu/ac)
30,000 seeds/ac	127.4[B]
33,000 seeds/ac	140.7[A]
36,000 seeds/ac	142.7[A]
P-Value	0.00341
CV	5.85%
Significance	Yes

FIELD IMAGE—AUG 19, 2020



STRIP YIELD



Summary: There was a significant difference in yield between the 33,000 and 36,000 versus the 30,000 seeds/acre seeding rates. It should be noted that plant stands at V2 showed no significant difference between the three seeding rates. Overall, rainfall was slightly above average for the growing season.

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