

Corn Seed Rate

Trial ID: 2020-CRNP09 — R.M. of Dufferin

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	Carman
Previous Crop	Wheat
Soil Texture	Fine Loam
Tillage	Conventional
Planting Date	May 19, 2020
Fertilizer (N-P-K-S)	140N 40P 40K 10S
Variety	A4939G2 R9B
Row Spacing	20"
Seed Rate (seeds/ac)	34k vs 31k vs 37k
Harvest Date	October 12, 2020

SOIL PROPERTIES†			
N 0-24"	P (ppm)	K (ppm)	% O.M.
79	9	109	2.0

†Nutrient values measured at V2

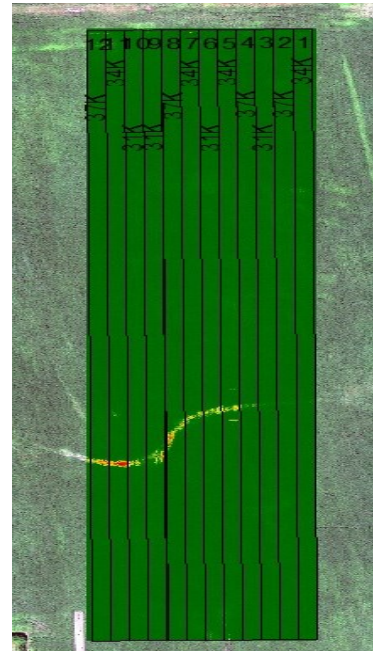
PLANT STAND @ V2			
Seed Rate (seeds/ac)	31,000	34,000	37,000
Plant stand/ac	32,250 ^B	34,000 ^{AB}	36,250 ^A

PRECIPITATION†					
	May	June	July	Aug	Total
Rainfall	30	47	81	27	184
Normal	55	78	59	79	271

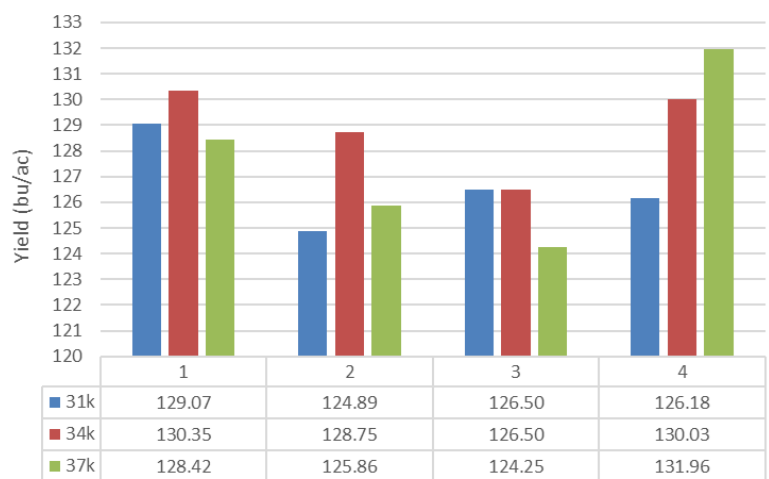
†Growing season precipitation (mm)

OVERALL YIELD	
	Mean (bu/ac)
31,000 seeds/ac	126.7 ^A
34,000 seeds/ac	128.9 ^A
37,000 seeds/ac	127.7 ^A
P-Value	0.298
CV	1.87%
Significance	No

FIELD IMAGE - AUG 18, 2020



STRIP YIELD



Summary: There was no significant difference in yield between the 31,000, 34,000 and 37,000 seeds/acre seeding rates. There was a significant difference between plant stands taken at V2. Overall, rainfall was well below average for the growing season.