

Corn Seed Rate

Trial ID: 2020-CRNP04 — R.M. of Wallace-Woodworth

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	Virden
Previous Crop	Canola
Soil Texture	Fine Loam
Tillage	Conventional
Planting Date	May 07, 2020
Fertilizer (N-P-K-S)	150N 24P
Variety	P7211HR
Row Spacing	30"
Seed Rate (seeds/ac)	36k vs 33k vs 39k
Harvest Date	October 15, 2020



SOIL PROPERTIES†			
N 0-24"	P (ppm)	K (ppm)	% O.M.
150	13	384	6.8

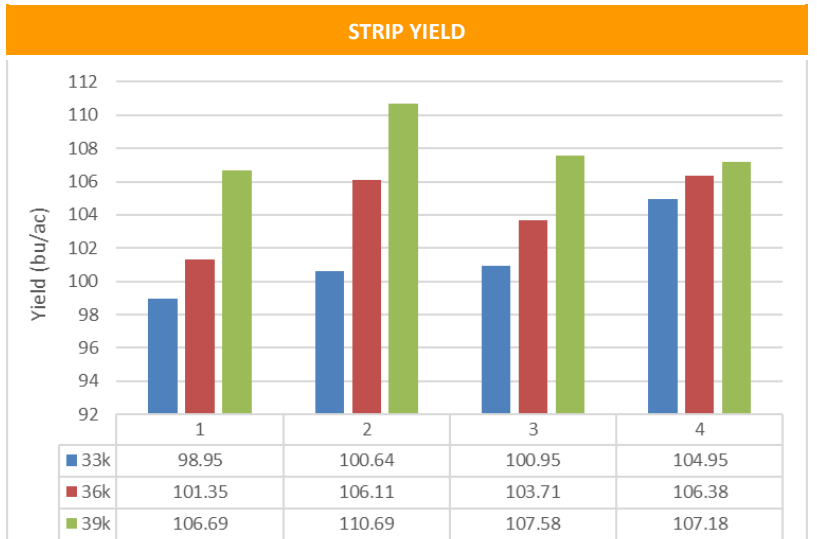
†Nutrient values measured at V2

PLANT STAND @ V2			
Seed Rate (seeds/ac)	33,000	36,000	39,000
Plant stand/ac	23,500 ^B	29,250 ^A	31,250 ^A

PRECIPITATION†					
	May	June	July	Aug	Total
Rainfall	17	61	108	44	230
Normal	49	71	62	63	245

†Growing season precipitation (mm)

OVERALL YIELD	
	Mean (bu/ac)
33,000 seeds/ac	101.4 ^C
36,000 seeds/ac	104.4 ^B
39,000 seeds/ac	108.1 ^A
P-Value	0.0046
CV	3.35%
Significance	Yes



Summary: There was a significant difference in yield and plant stands at V2 between the 33,000, 36,000 and 39,000 seeds/acre seeding rates. It should be noted that plant stands at V2 were significantly below target due to seeding into cold, dry soil and minimal rainfall two weeks after emergence. Overall, rainfall was slightly below average throughout the growing season.