



Corn Planting Rate

Trial ID: 2021-CRNP05 — R.M. of Grey

Objective: The purpose of this project is to quantify the agronomic and economic impacts of reducing and increasing normal planting rate in corn.

TRIAL INFORMATION	
Location	Elm Creek
Previous Crop	Corn
Soil Texture	Coarse Loams
Tillage	Strip Till
Planting Date	May 04, 2021
Fertilizer (N-P-K-S)	142N 40P 40K 10S 1%Zn
Variety	DKC33-78RIB
Row Spacing	30"
Planting Rate (seeds/ac)	29K, 32K & 35K
Harvest Date	October 18, 2021

SOIL PROPERTIES†			
N 0-24"	P (ppm)	K (ppm)	% O.M.
85	28	126	2.3

†Nutrient values prior to spring seeding

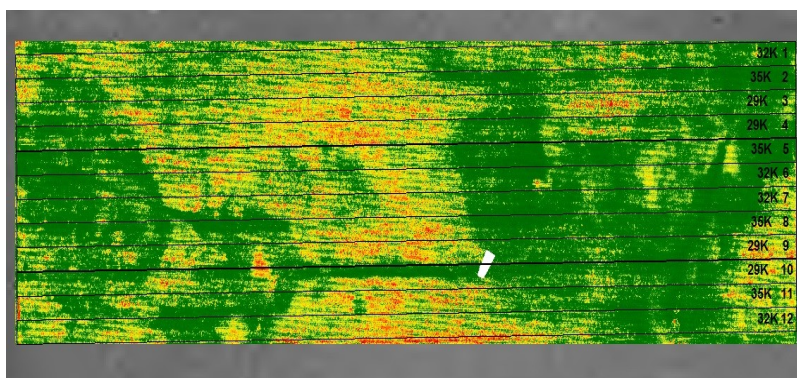
PLANT STAND @ V2			
Planting Rate (seeds/ac)	29,000	32,000	35,000
Plants/acre	21,000	25,750	28,250

PRECIPITATION†					
	May	June	July	Aug	Total
Rainfall	50	71	16	73	210
Normal	53	74	60	82	269

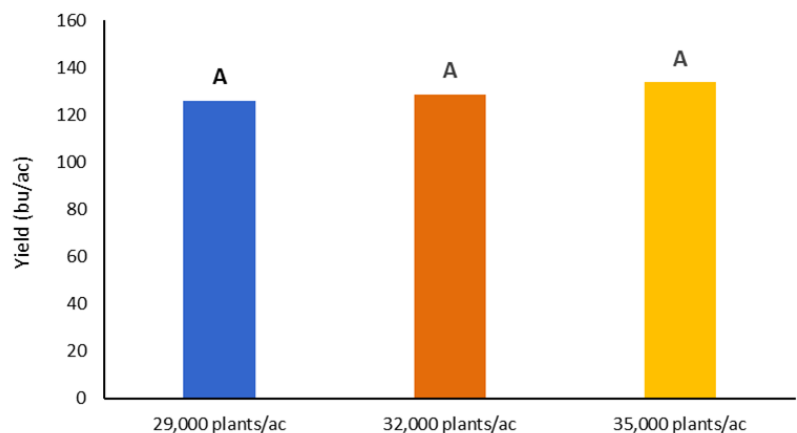
†Growing season precipitation (mm) - May 01—Aug 31

OVERALL YIELD	
	Mean (bu/ac)
29,000 plants/ac	126.1 ^A
32,000 plants/ac	128.8 ^A
35,000 plants/ac	133.9 ^A
P-Value	0.4931
CV	6.88%
Significance	No

FIELD IMAGE



YIELD BY TREATMENT



Summary: There was no significant difference in yield or plant stands at V2 between the 29,000, 32,000 and 35,000 seeds/acre planting rates. Rainfall was below average throughout the growing season. Plant stands were low due to uneven rainfall and germination in dry soils after planting.



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