



Corn Planting Rate

Trial ID: 2021-CRNP02 — R.M. of Hanover

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	Grunthal
Previous Crop	Corn
Soil Texture	Clay Loams
Tillage	Conventional Tillage
Planting Date	April 28, 2021
Fertilizer (N-P-K-S)	165N
Variety	P7861AM
Row Spacing	30"
Planting Rate (seeds/ac)	30K, 33K & 36K
Harvest Date	October 29, 2021

SOIL PROPERTIES†			
N 0-24"	P (ppm)	K (ppm)	% O.M.
284	104	295	4.1

†Nutrient values prior to spring seeding

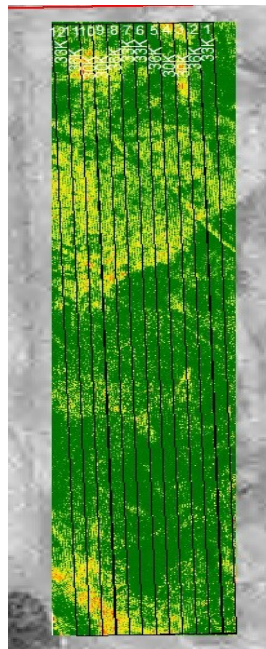
PLANT STAND @ V2			
Planting Rate (seeds/ac)	30,000	33,000	36,000
Plants/acre	29,000	31,000	34,250

PRECIPITATION†					
	May	June	July	Aug	Total
Rainfall	35	61	12	108	216
Normal	52	86	63	66	267

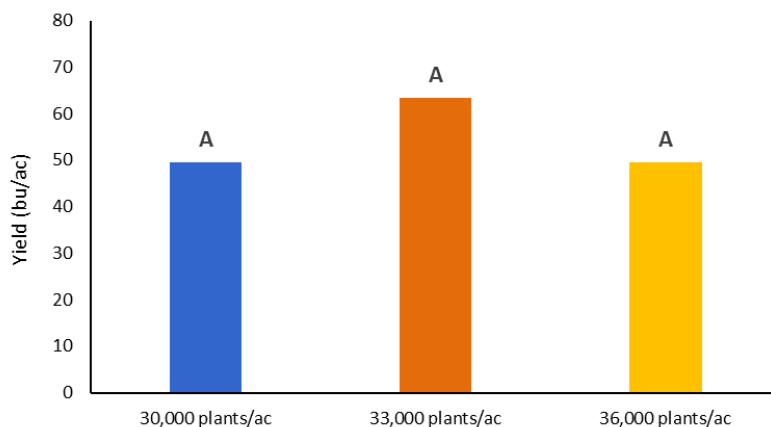
†Growing season precipitation (mm) - May 01—Aug 31

OVERALL YIELD	
	Mean (bu/ac)
30,000 plants/ac	49.6 ^A
33,000 plants/ac	63.4 ^A
36,000 plants/ac	49.6 ^A
P-Value	0.1004
CV	15.89%
Significance	No

FIELD IMAGE



YIELD BY TREATMENT



Summary: There was no significant difference in yield or plant stands at V2 between the 30,000, 33,000 and 36,000 seeds/acre planting rates. Rainfall was well below average throughout the growing season.



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