Corn Planting Rate

Trial ID: 2022-CRNP06 — R.M. of Springfield

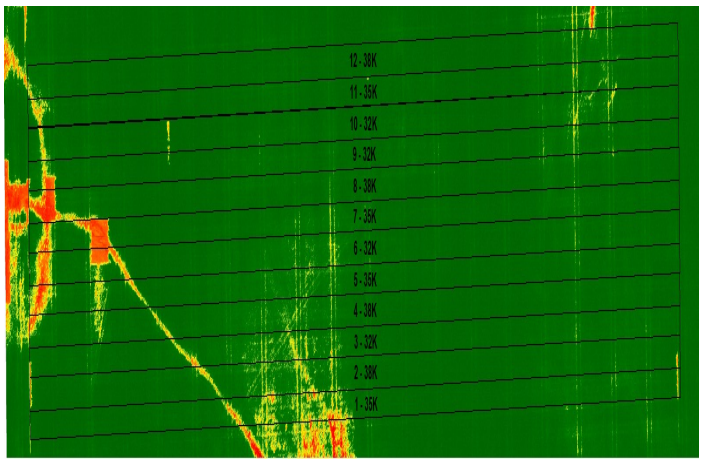
Objective: The purpose of this project is to quantify the agronomic and economic impacts of reducing and increasing normal planting rate in corn.

Summary: There was no significant yield difference between planting rates of 32,000, 35,000 and 38,000 plants/ac. As a result, there was a decrease in profit equivalent to the increase in seed cost for the higher planting rates.

Trial Information

Treatment	32k vs. 35k vs. 38k
Soil Texture	Clay
Previous Crop	Soybeans
Tillage	Conventional
Planting Equipment	60’ Planter
Planting Date	May 26
Variety	NS 72-521 VT2PRIB
Germination	98%
Row Spacing	15”
Harvest Date	November 04

NDVI Imagery August 13



Precipitation† (mm)

	May	June	July	Aug	Total
Rainfall	139	54	93	81	**367**
Normal	54	79	78	102	**314**
% Normal	256%	68%	118%	80%	**117%**

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

Plant Stand (plants/ac)

Planting Rate	32k	35k	38k
V2	32,600[C]	34,700[B]	37,100[A]

Overall Yield & Economics

	Mean (bu/ac)	Cost†	Change in Profit/ac††
32k	109.8	$99/ac	+$10/ac
35k	112.4	$109/ac	$0/ac
38k	113.9	$118/ac	-$9/ac
P-Value	0.1634	**Economics: There is an increase in profit for the lower planting rate due to the lower cost of seed/acre.**	
CV	2.38%		
Significance	No		

†Based on MB Agriculture 2022 Cost of Production Guidelines ($99.20/ac)
††Change in profit is calculated as the difference in cost between planting rate treatments.

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