Wheat Seeding Rate

Trial ID: 2021-WP01 — R.M. of Grey

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

TRIAL INFORMATION

Location	Culross
Previous Crop	Oats
Soil Texture	Clay
Tillage	Conventional Tillage
Planting Date	April 09, 2021
Variety	Bolles
Row Spacing	10”
Seeding Rate (lbs/ac)	90, 135 & 180
Fertilizer (N-P-K-S)	131N 52P
Harvest Date	July 29, 2021

PRECIPITATION†

	May	June	July	Aug	Total
Rainfall	50	71	16	23	**160**
Normal	53	74	60	48	**235**

†Growing season precipitation (mm) - May 01—Aug 15

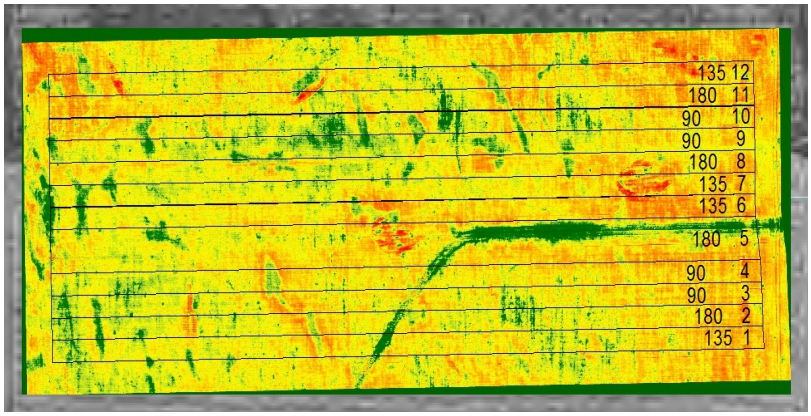
WHEAT RESPONSE

	Plant Stand/ft²	Protein	TWT (kg/hL)	Falling Number
90 lbs/ac	28^{B}	16.9	78	428
135 lbs/ac	34^{B}	- -	- -	- -
180 lbs/ac	53^{A}	- -	- -	- -

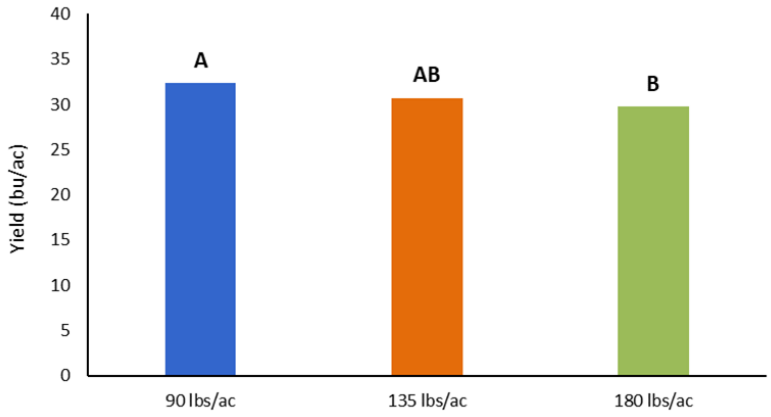
OVERALL YIELD

	Mean (bu/ac)
90 lbs/ac	32.4^{A}
135 lbs/ac	30.7^{AB}
180 lbs/ac	29.7^{B}
P-Value	0.0288
CV	3.31%
Significance	**Yes**

FIELD IMAGE



YIELD BY TREATMENT



Summary: There was a significant difference in yield between the 90 lbs/acre and 180 lbs/acre seeding rates. There was a significant difference in plant stands between the 180 lbs/acre vs. the 90 and 135 lbs/acre seeding rates. Rainfall was below average throughout the growing season.

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