

Wheat Seeding Rate

Trial ID: 2020-WP01 — R.M. of Roland

Objective: The purpose of this project is to quantify the agronomic and economic impacts of reducing and increasing normal seeding rate by 20 lbs/ac in wheat.

TRIAL INFORMATION

Location	Roland
Previous Crop	Dry Beans
Soil Texture	Clay Loam
Tillage	Conventional
Planting Date	May 19, 2020
Variety	Faller
Row Spacing	7.5"
Seeding Rate (lbs/ac)	118 vs 138 vs 158
Fertilizer (N-P-K-S)	124N 50P 20K 10S
Harvest Date	August 24, 2020

PRECIPITATION†

	May	June	July	Aug	Total
Rainfall	30	47	81	27	184
Normal	55	78	59	79	271

†Growing season precipitation (mm)

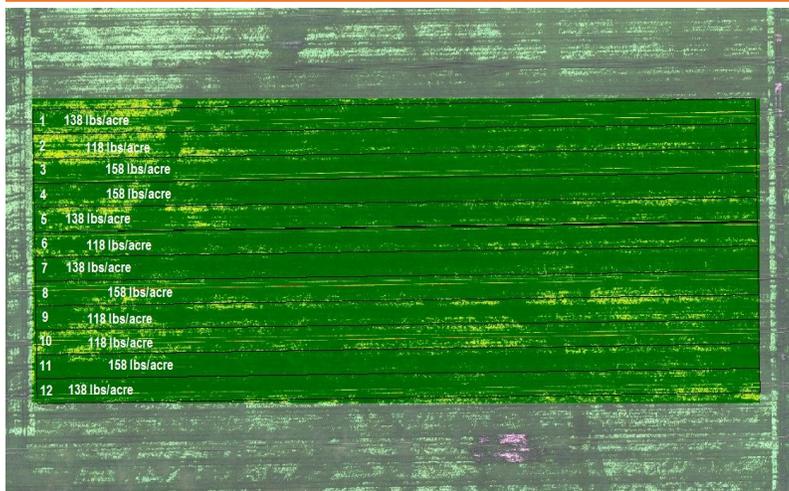
WHEAT RESPONSE

	Plant Stand/ft ²	Protein	TWT (kg/hL)	Falling Number
118 lbs/ac	22 ^A	14.8	76	331
138 lbs/ac	23 ^A	14.8	76	331
158 lbs/ac	26 ^A	14.8	76	331

OVERALL YIELD

	Mean (bu/ac)
118 lbs/ac	75.0 ^A
138 lbs/ac	76.0 ^A
158 lbs/ac	75.4 ^A
P-Value	0.442
CV	1.90%
Significance	No

FIELD IMAGE



STRIP YIELD



Summary: There was no significant difference in yield or plant stands between the three seeding rates (118 lbs/ac, 138 lbs/ac and 158 lbs/ac). Rainfall was well below average for the growing season.