



## Barley Seeding Rate

**Trial ID: 2022-BP05 — R.M. of Rockwood**

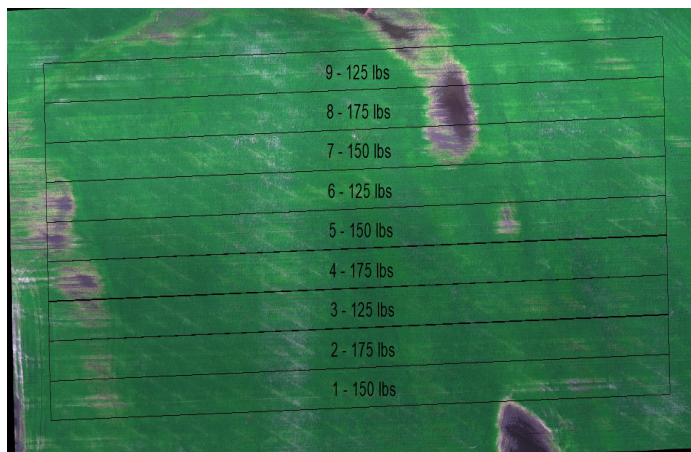
**Objective:** The purpose of this project is to quantify the agronomic and economic impacts of reducing and increasing normal seeding rate in barley.

**Summary:** There was no significant yield difference between seeding rates of 125, 150 and 175 lbs/ac. As a result, there was a decrease in profit equivalent to the increase in seed cost for the higher seeding rates.

### Trial Information

<b>Treatment</b>	125 lbs vs. 150 lbs vs. 175 lbs
<b>Soil Texture</b>	Fine Loams
<b>Previous Crop</b>	Oats
<b>Tillage</b>	Conventional
<b>Seeding Equipment</b>	60' Air Drill
<b>Seeding Date</b>	June 19
<b>Variety</b>	Claymore
<b>Germination</b>	98%
<b>Row Spacing</b>	10"
<b>Harvest Date</b>	September 11

### RGB Imagery July 24



### Barley Response

	Plants/ft <sup>2</sup>	Protein (%)	TWT (kg/hL)	Grade
<b>125 lbs</b>	21	14.4	50	—
<b>150 lbs</b>	23	15.2	50	—
<b>175 lbs</b>	26	14.7	50	—

### Precipitation<sup>†</sup> (mm)

	May	June	July	Aug	Total
<b>Rainfall</b>	126	90	141	39	<b>396</b>
<b>Normal</b>	54	83	64	58	<b>259</b>
<b>% Normal</b>	234%	108%	221%	67%	<b>153%</b>

<sup>†</sup>Growing season precipitation (mm) - May 01—Aug 15

### Overall Yield & Economics

	Mean (bu/ac)	Cost <sup>†</sup>	Change in Profit/ac <sup>††</sup>
<b>125 lbs</b>	48.6	\$36/ac	+\$8/ac
<b>150 lbs</b>	46.9	\$44/ac	\$0/ac
<b>175 lbs</b>	48.4	\$51/ac	-\$7/ac
<b>P-Value</b>	0.4964	<b>Economics: There is an increase in profit for the lower seeding rate due to the lower cost of seed/acre.</b>	
<b>CV</b>	3.84%		
<b>Significance</b>	No		

<sup>†</sup>Based on MB Agriculture 2022 Cost of Production Guidelines (\$28.00/ac)

<sup>††</sup>Change in profit is calculated as the difference in cost between seeding rate treatments.



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