



## Barley Seeding Rate

**Trial ID: 2022-BP03 — R.M. of De Salaberry**

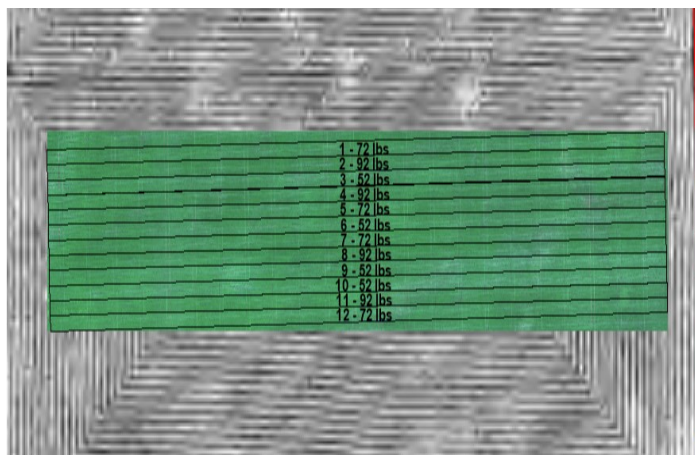
**Objective:** The purpose of this project is to quantify the agronomic and economic impacts of reducing and increasing normal seeding rate in barley.

**Summary:** There was no significant yield difference between seeding rates of 125, 145 and 165 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

|                   |                                 |
|-------------------|---------------------------------|
| Treatment         | 125 lbs vs. 145 lbs vs. 165 lbs |
| Soil Texture      | Clay                            |
| Previous Crop     | Canola                          |
| Tillage           | Conventional                    |
| Seeding Equipment | 60' Disc Drill                  |
| Seeding Date      | June 04                         |
| Variety           | Conlon                          |
| Germination       | 99%                             |
| Row Spacing       | 10"                             |
| Harvest Date      | September 02                    |

### RGB Imagery July 24



### Barley Response

|         | Plants/ft <sup>2</sup> | Protein (%) | TWT (kg/hL) | Grade |
|---------|------------------------|-------------|-------------|-------|
| 125 lbs | 22 <sup>C</sup>        | 12.7        | 66.0        | 1.0   |
| 145 lbs | 26 <sup>B</sup>        | —           | —           | —     |
| 165 lbs | 30 <sup>A</sup>        | —           | —           | —     |

### Precipitation<sup>†</sup> (mm)

|          | May  | June | July | Aug  | Total |
|----------|------|------|------|------|-------|
| Rainfall | 115  | 107  | 130  | 86   | 439   |
| Normal   | 58   | 77   | 80   | 54   | 269   |
| % Normal | 199% | 139% | 162% | 159% | 163%  |

<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> |
|--------------|--------------|---|-----------------------------------|
| 125 lbs      | 97.6         | \$36/ac   | +\$6/ac                           |
| 145 lbs      | 99.2         | \$42/ac   | \$0/ac                            |
| 165 lbs      | 97.8         | \$48/ac   | -\$6/ac                           |
| P-Value      | 0.7242       | <b>Economics: There is an increase in profit for the lower seeding rate due to the lower cost of seed/acre.</b> |                                   |
| CV           | 3.03%        |   |                                   |
| Significance | 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.



MCA would like to thank Tone Ag Consulting Ltd. for the research support and SGS Canada Inc. for quality analysis for this trial.



**MANITOBA  
CROP  
ALLIANCE**

Phone: 204-745-6661  
Website: [mbcropalliance.ca](http://mbcropalliance.ca)  
Email: [hello@mbcropalliance.ca](mailto:hello@mbcropalliance.ca)