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# Pea Seeding Rate Trial

Trial ID: 2024-PSR05 – R.M. of Oakland-Wawanesa

**Objective:** Quantify the agronomic and economic impacts of different field pea seeding rates.

**Summary:** The percent of seeding rate established for the low, normal and high rates was 97%, 90% and 99% respectively. There were no significant yield differences among seeding rates of 162, 180 and 198 lbs/ac. As a result, there was a decrease in profit/ac equivalent to the increase in seed cost for the higher seeding rates.

## Trial Information

Treatment (lbs/ac)	162 vs 180 vs 198
Soil Texture	Loam
Previous Crop	Wheat
Tillage	Conventional Till
Seeding Equipment	60ft Air Drill
Seeding Date	May 10
Variety	AAC Carver
Row Spacing	12"
Harvest Date	August 20

## Precipitation (mm)

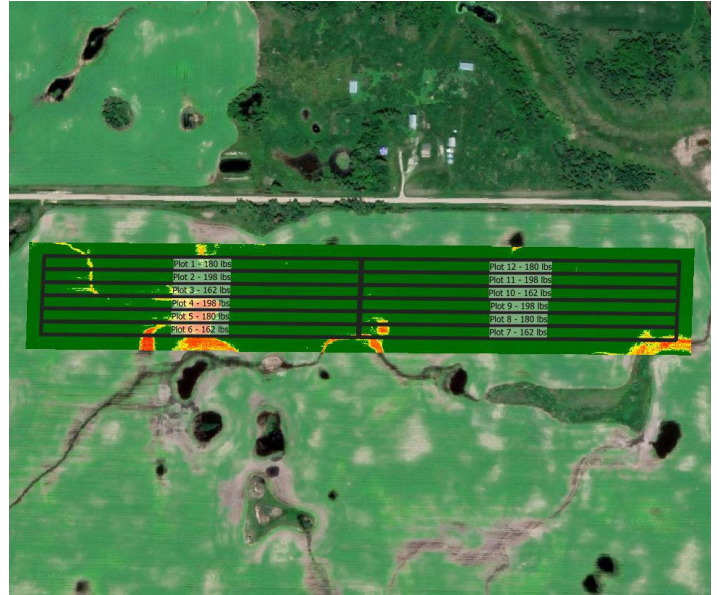
	May	June	July	Aug	Total
Rainfall	90.5	114.7	50.2	35.7	291.1
Normal	51.2	72.8	74.4	67.5	265.9
% Norm	177%	158%	67%	53%	109%

## Plant Stand (plants/ac) †

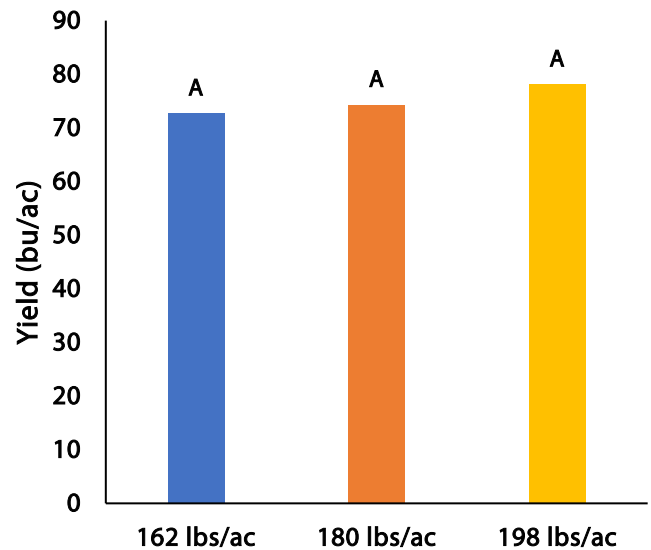
	V4	R8
162lbs/ac	299,000 A	N/A
180lbs/ac	307,000 A	N/A
198lbs/ac	371,000 A	N/A

† Averages followed by different letters are significantly different at  $p = 0.05$ .

## NDVI Field Image July 14



## Yield by Treatment





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### Overall Yield & Economics

	Mean (bu/ac)	Cost †	Change in Profit ††
162lbs/ac	72.7	\$79.19/ac	
180lbs/ac	74.3	\$87.99/ac	-\$8.80/ac
198lbs/ac	78.1	\$96.79/ac	-\$17.60/ac
P-Value	0.180		
CV	4.9%		
Significance	No	Economic	No

† Assuming a seed cost of \$29.33/bu (Source: Manitoba Agriculture 2024 Cost of Production Guidelines)

†† Change in profit is calculated as the difference in cost between seeding rate treatments. Because yields were not significantly different, there is no increased income to offset the increase in seed cost