

Pea Seeding Rate Trial

Trial ID: 2024-PSR01 – R.M. of Grey

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 72%, 80% and 76% respectively. There were no significant yield differences among seeding rates of 162, 192 and 216 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 192 vs 216
Soil Texture	Clay
Previous Crop	Canola
Tillage	Zero Till
Seeding Equipment	57ft Air Drill
Seeding Date	April 25
Variety	CDC Lewochko
Row Spacing	10"
Harvest Date	August 12

Precipitation (mm)

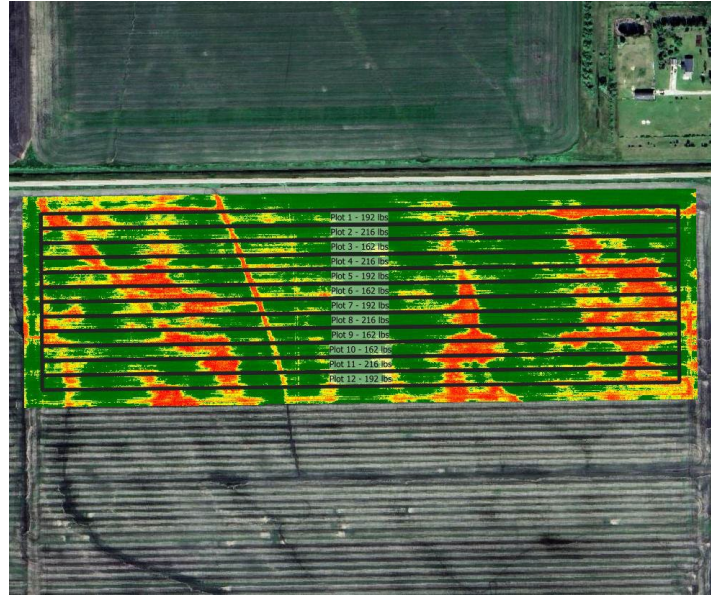
	May	June	July	Aug	Total
Rainfall	108.4	118.7	40.2	54.5	321.8
Normal	53.8	80.6	65.7	71	271.1
% Norm	201%	147%	61%	77%	119%

Plant Stand (plants/ac) †

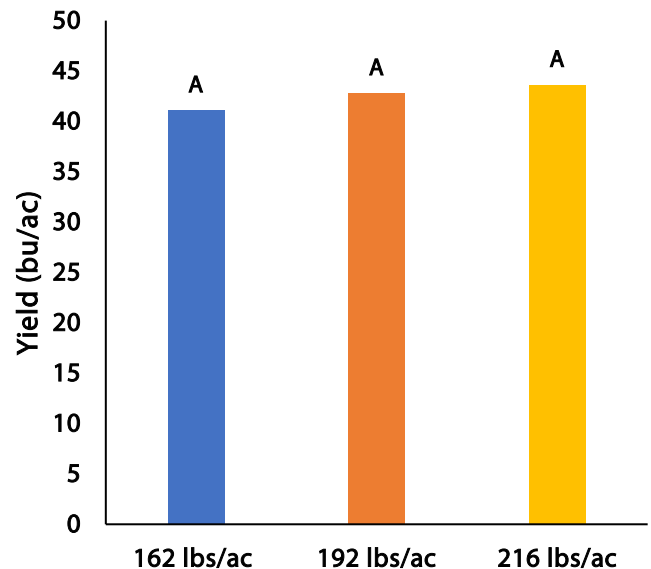
	V7	R8
162lbs/ac	230,000 B	212,000 B
192lbs/ac	305,000 A	288,000 A
216lbs/ac	326,000 A	291,000 A

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

NDVI Field Image July 16



Yield by Treatment





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Overall Yield & Economics

	Mean (bu/ac)	Cost †	Change in Profit ††
162lbs/ac	41.1	\$79.19/ac	
192lbs/ac	42.8	\$93.86/ac	-\$14.67/ac
216lbs/ac	43.6	\$105.59/ac	-\$26.40/ac
P-Value	0.627		
CV	8.5%		
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