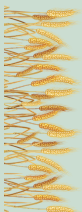
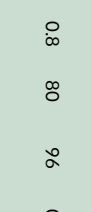
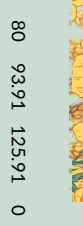
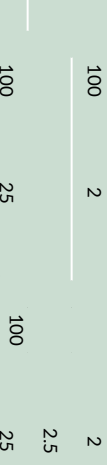
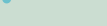
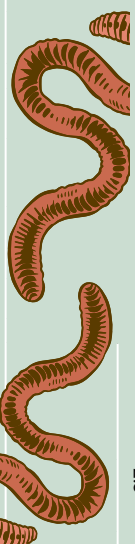


PROPRIETARY

CROPLAND SOLUTIONS

Products	Standard Plan				Reduced Fertilizer Plan				Vermicompost				3				4				5							
	Rate	Wheat	Canola	Pea	Rate	Wheat	Canola	Pea	Rate	Wheat	Canola	Pea	Rate	Wheat	Canola	Pea	Rate	Wheat	Canola	Pea	Rate	Wheat	Canola	Pea				
In furrow	%	lb acre-1			%	lb acre-1			%	lb acre-1			%	lb acre-1			%	lb acre-1			%	lb acre-1						
Recommended fertilizer based on soil test	100	100	120	0	80	80	96	0		%	lb acre-1				%	lb acre-1				%	lb acre-1				%	lb acre-1		
Granule fertilizers Treated with UGAIN					80	80	96	0		80	80	96	0		80	80	96	0		0.8	80	96	0		0.8	80	96	0
Worm casting granules					100		40																					
Seed treatment vigor plus																												
Urea	100	117.39	157.39	0	80	93.91	125.91	0		80	93.91	125.91	0		80	93.91	125.91	0		80	93.91	125.91	0		80	93.91	125.91	0
Foliar	ml L-1				ml L-1				ml L-1				ml L-1				ml L-1				ml L-1							
Optimize Micro	100				2				100				2				100				2							
Pholiar Plus																												
Elite Triple IO																												
Prime Micro																												
Copper																												



PROPRIETARY

CROPLAND SOLUTIONS

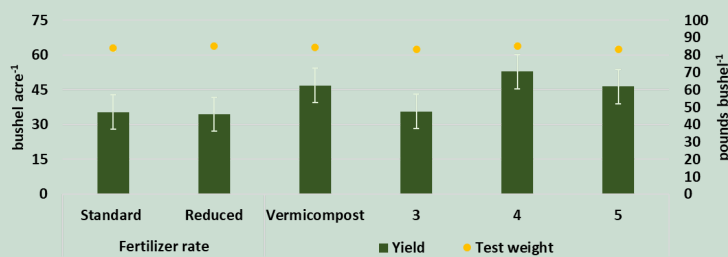
The intent of this experiment was to test if fertilizer could be replaced by foliar treatments and vermicompost. Unfortunately, results did not give out the respective results as the foliar treatments did not arrive on time from the United States. Thus, by the time they finally reached Canadian ground the ideal life stages for foliar product application of all the crops had already passed. Data was still used for statistical analysis for comparison, but no differences were found in any of the treatments compared to the control.

FIELD PEA

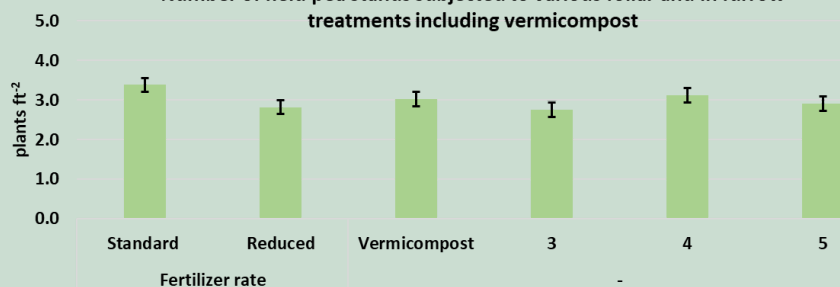
Protein content in field pea subjected to various foliar and in furrow treatments including vermicompost



Yield and test weight in field pea subjected to various foliar and in furrow treatments including vermicompost



Number of field pea stands subjected to various foliar and in furrow treatments including vermicompost



Foliar, reduced fertilizer and vermicompost treatment were no different from control in field pea in field pea stands. As such, test weight ($P=0.8531$), protein ($P=0.0797$), stand count ($P=0.8503$) and yield ($P=0.2581$) were statistically the same compared to the control. Stand count was also the same as the standard and reduced fertilizer rate ($P=0.8503$).

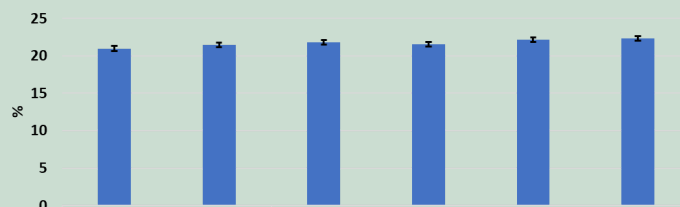


PROPRIETARY

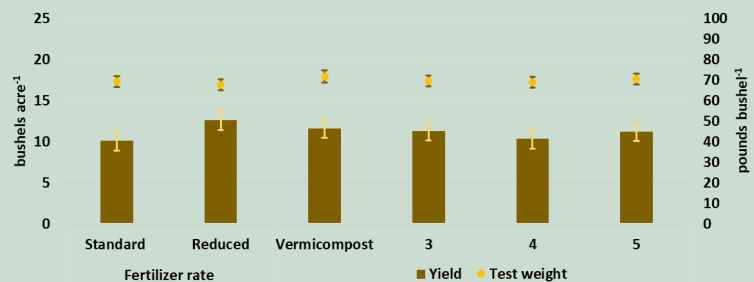
CROPLAND SOLUTIONS

WHEAT

Protein content in field pea subjected to various foliar and in furrow treatments including vermicompost

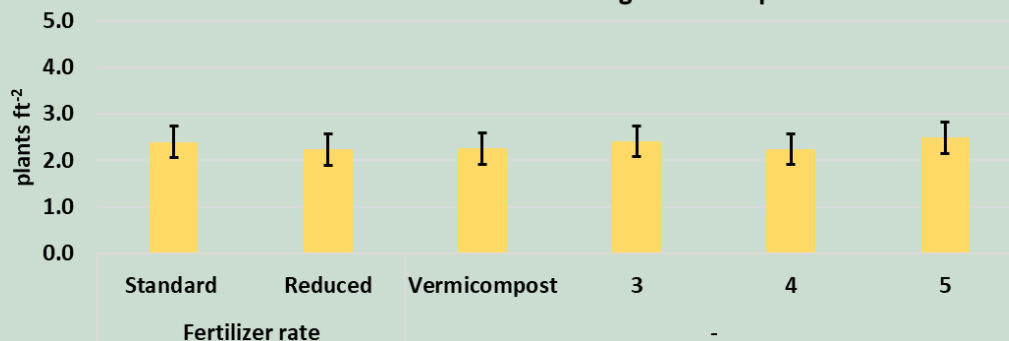


Yield and test weight in wheat subjected to various foliar and in-furrow treatments including vermicompost



Foliar, reduced fertilizer and vermicompost treatment were no different from control in field pea in field pea stands. As such, test weight ($P=0.9266$), protein ($P=0.4066$), stand count ($P=0.7436$) and yield ($P=0.9616$) were statistically the same compared to the control. Stand count was also the same as the standard and reduced fertilizer rate ($P=0.7436$).

Number of wheat stands subjected to various foliar and in furrow treatments including vermicompost

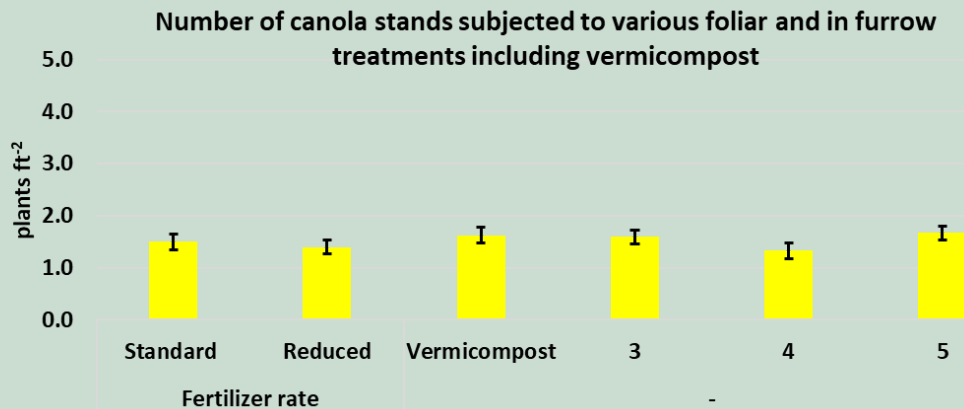
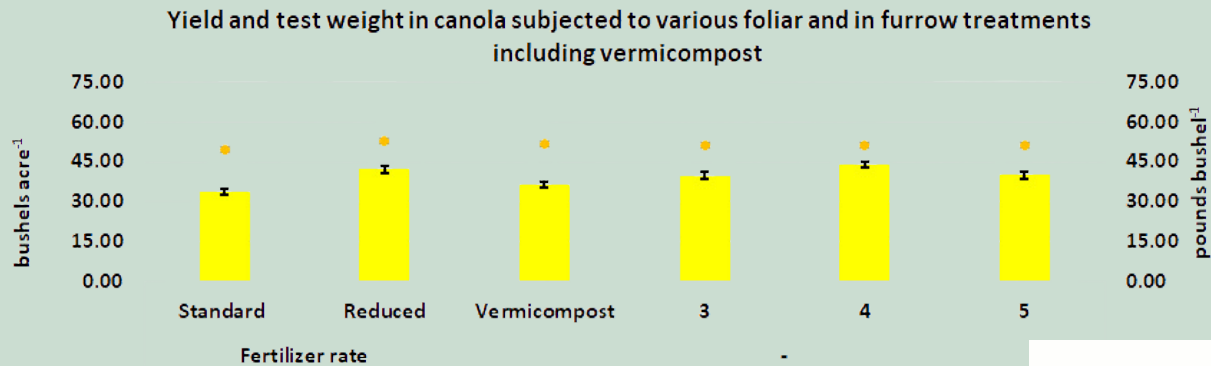
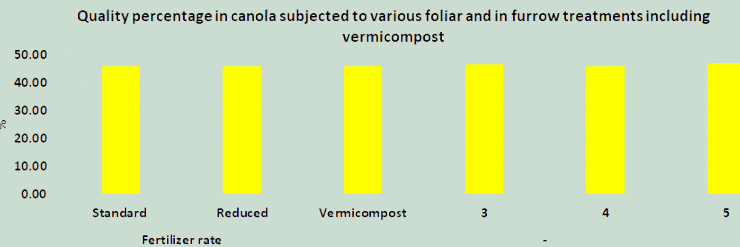


PROPRIETARY

CROPLAND SOLUTIONS

CANOLA

Stand count ($P=0.3907$), yield ($P=0.4954$), test weight ($P=0.2391$) and quality ($P=0.7606$) were also the same as the standard and reduced fertilizer rate



KEY POINTS:

- No differences compared to control in canola, field pea and wheat