

# 2025 Canola Variety Evaluation Trials (CVET)

## About this Publication

Manitoba Canola Growers Association launched the CVET program in 2024 to provide farmers with independent third-party testing data for commercial canola varieties, helping to inform selection decisions. All seed companies were approached to enter varieties into the program for the 2025 season which initiated trials at 9 different testing locations across Manitoba. Separate trials were conducted for each herbicide tolerant system (Liberty Link and Roundup Ready/TruFlex) and all varieties were desiccated and straight cut. One location was canceled during the season - the Roblin site suffered an untimely flush of green foxtail at the beginning of canola flowering. Therefore, data is presented from 8 locations for the 2025 season.

The check variety for each respective trial was chosen based on the highest market share of entered varieties from the 2025 MASC Seeded Acreage Report.

## Understanding the Tables and Results

**Least Significant Difference (LSD):** the quantity by which varieties must differ to conclude with 95% confidence that differences in data exist. If the difference between the yields of two varieties exceeds the LSD value, it means that with 95% probability, the higher-yielding variety has a significant yield advantage. If the yield differences are smaller than the LSD value, variety yields are considered similar.

**Coefficient of Variation (CV):** a measure of random variability in the trial. A CV of less than 15% generally indicates an acceptable, uniform trial and conclusive data.

**Lodging:** Rated on a 1 to 5 scale, where 5 is a completely lodged plant at harvest.

**Blackleg Resistance:** Varieties in the tables have a resistant (R) rating for Blackleg (<30% infection of Westar check) based on WCC/RRC rating. Some seed distributors have chosen to provide blackleg resistance grouping based on major-gene (qualitative) resistance within a variety in addition to the traditional rating. Labels identifying major resistance genes present will use the letters: A, B, C, D, E1, E2, F, G, H, and X.

**Clubroot Resistance:** Clubroot resistance is generally termed 1st or 2nd Generation based on genetic source. First-generation clubroot resistance confers resistance to clubroot pathotypes 2F, 3H, 5I, 6M, and 8N, on the Canadian Clubroot Differential Set (Strelkov et al., 2018). Second-generation sources contain resistance to a varying set of pathotypes outside the original five first-generation pathotypes but may also have resistance to the original five.

**Pod Shatter Resistance:** The pod shatter rating scale was developed by the Canola Council of Canada in 2021. Numeric pod shatter ratings are provided by respective companies or may not yet be identified on the new rating system. 1 = poor, 9 = excellent pod shatter resistance.

## Liberty Link

Variety Descriptions and Combined Data (8 sites)

Company	Variety	Manitoba CVET Data <sup>1</sup>				WCC/RRC Data <sup>2</sup>		
		Yield	Yield	Maturity	Lodging	Blackleg Resistance <sup>3</sup>	Clubroot Resistance <sup>3</sup>	Pod Shatter Rating <sup>4</sup>
		(% of check)	(bu/ac)	(Days)	(1-5)	(Group) <sup>3a</sup>	(Generation) <sup>3b</sup>	(1-9)
BrettYoung	BY7204LL	95%	59.0	97.1	1.2	R (E2)	R (1+2)	Y (7.5)
BrettYoung	BY7206LL	99%	61.1	99.6	1.5	R (A, E2, G)	R (1+2)	Y (7.3)
WinField United Canada	CROPLAN CP24L3C	96%	59.4	97.3	1.4	R	R (1+2)	Y (7.0)
WinField United Canada	CROPLAN CP25L3C	97%	60.1	98.2	1.5	R	R (1+2)	Y (7.2)
CANTERRA SEEDS	CS4100 LL	95%	58.7	97.8	1.5	R (E2, G)	R (1+2)	Y (7.0)
BASF   InVigor	InVigor L330PC	101%	63.0	96.1	1.4	R	R (1)	Y
BASF   InVigor	InVigor L333PC	100%	62.0	98.0	1.4	R	R (1)	Y
BASF   InVigor	InVigor L340PC	100%	62.0	96.2	1.4	R	R (1)	Y
BASF   InVigor	InVigor L350PC	103%	64.1	99.9	1.5	R	R (1)	Y
BASF   InVigor	InVigor L356PC	100%	62.0	97.2	1.5	R	R (1)	Y
Maizex Seeds	MC 5126LL	88%	54.5	96.5	1.5	R	R (1+ 3A, 3D, 5X, 8E)	Y (6.0)
<b>LSD</b>			<b>2.2</b>	<b>0.7</b>	<b>0.3</b>			

## Roundup Ready/TruFlex

Variety Descriptions and Combined Data (8 sites)

Company	Variety	Manitoba CVET Data <sup>1</sup>				WCC/RRC Data <sup>2</sup>		
		Yield	Yield	Maturity	Lodging	Blackleg Resistance <sup>3</sup>	Clubroot Resistance <sup>3</sup>	Pod Shatter Rating <sup>4</sup>
		(% of check)	(bu/ac)	(Days)	(1-5)	(Group) <sup>3a</sup>	(Generation) <sup>3b</sup>	(1-9)
WinField United Canada	CROPLAN CP25T2C	94%	57.8	97.2	1.6	R (E1, G)	R (1+2)	Y (7.3)
CANTERRA SEEDS	CS3200 TF	91%	55.9	98.6	1.5	R (C)	R (1+2)	Y (7.0)
CANTERRA SEEDS	CS3300 TF	100%	61.5	94.6	1.9	R (A, E2)	R (1)	Y (7.0)
Maizex Seeds	MC 5230TF	99%	60.7	97.2	2.1	R (Rlm7, RlmS)	R (1)	Y (7.6)
<b>LSD</b>			<b>2.2</b>	<b>0.5</b>	<b>0.3</b>			

<sup>1</sup> Data from independent canola hybrid testing in the Manitoba Canola Variety Evaluation Trials.

<sup>2</sup> Data from canola hybrid registration testing at Western Canadian Canola/Rapeseed Recommending Committee Trials.

<sup>3</sup> Genetic disease resistance is indicated with an "R" resistant rating to Blackleg, Clubroot, based on variety descriptions submitted to CFIA. NT - not tested through WCC/RRC to date.

<sup>3a,b</sup> Additional details of blackleg group and clubroot generation labels provided by respective companies.

<sup>4</sup> The Canola Council of Canada rating system indicates that 1 = poor, 9 = excellent pod shatter resistance.

## Carman

**Research Contractor:** University of Manitoba  
**Seeding Date:** May 13, 2025  
**Harvested Plot Area:** 40.32 m<sup>2</sup>  
**Previous Crop:** Wheat  
**Soil Texture:** Sandy Lacustrine EEK  
**Harvest Date:** August 29, 2025  
**Season Precipitation:** 169 mm  
**Disease Pressure:** Medium Blackleg, high Verticillium

## Liberty Link

Variety	Yield (bu/ac)	Yield (% of check)	Maturity (days)	Lodging (1-5)
BY 7204LL	38.6	82%	93.3	1.0
BY 7206LL	38.6	81%	95.0	1.0
CS4100 LL	42.4	90%	96.5	1.0
MC 5126LL	40.3	85%	94.3	1.0
L330PC	44.9	95%	91.0	1.0
L333PC	52.9	112%	97.3	1.0
<b>L340PC (check)</b>	47.4	100%	93.0	1.0
L350PC	45.9	97%	97.5	1.0
L356PC	51.6	109%	96.0	1.0
CROPLAN CP25L3C	37.4	79%	93.0	1.0
CROPLAN CP24L3C	40.8	86%	97.3	1.0
<b>Site Average</b>	<b>43.7</b>		<b>94.9</b>	<b>1.0</b>
<b>LSD</b>	<b>3.5</b>		<b>1.9</b>	<b>0.0</b>
<b>CV (%)</b>	<b>5.6</b>		<b>1.4</b>	<b>0.0</b>

## Roundup / TruFlex

Variety	Yield (bu/ac)	Yield (% of check)	Maturity (days)	Lodging (1-5)
CS3200 TF	34.1	77%	98.5	1.0
<b>CS3300 TF (check)</b>	44.3	100%	91.3	1.0
MC 5230TF	42.5	96%	93.3	1.0
CROPLAN CP25T2C	41.8	94%	96.8	1.0
<b>Site Average</b>	<b>40.7</b>		<b>94.9</b>	<b>1.0</b>
<b>LSD</b>	<b>4.7</b>		<b>1.7</b>	<b>0.0</b>
<b>CV (%)</b>	<b>7.2</b>		<b>1.1</b>	<b>0.0</b>

## Hamiota

**Research Contractor:** AgQuest  
**Seeding Date:** May 26, 2025  
**Harvested Plot Area:** 30.7 m<sup>2</sup>  
**Previous Crop:** Wheat  
**Soil Texture:** Clay Loam  
**Harvest Date:** September 22, 2025  
**Season Precipitation:** 227.7 mm  
**Disease Pressure:** Low Blackleg, high Verticillium

### Liberty Link

Variety	Yield (bu/ac)	Yield (% of check)	Maturity (days)	Lodging (1-5)
BY 7204LL	74.6	97%	109.0	1.0
BY 7206LL	75.8	98%	108.0	1.3
CS4100 LL	74.3	96%	108.5	1.0
MC 5126LL	76.0	99%	107.3	1.3
L330PC	76.8	100%	101.5	1.0
L333PC	79.5	103%	105.0	1.3
<b>L340PC (check)</b>	<b>77.1</b>	<b>100%</b>	<b>103.5</b>	<b>1.0</b>
L350PC	81.4	106%	108.0	1.3
L356PC	78.8	102%	103.3	1.3
CROPLAN CP25L3C	74.6	97%	106.3	1.0
CROPLAN CP24L3C	75.4	98%	107.8	1.0
<b>Site Average</b>	<b>76.8</b>		<b>106.2</b>	<b>1.1</b>
<b>LSD</b>	<b>4.8</b>		<b>0.6</b>	<b>0.5</b>
<b>CV (%)</b>	<b>4.3</b>		<b>0.4</b>	<b>30.7</b>

### Roundup / TruFlex

Variety	Yield (bu/ac)	Yield (% of check)	Maturity (days)	Lodging (1-5)
CS3200 TF	76.7	92%	107.0	1.0
<b>CS3300 TF (check)</b>	<b>83.0</b>	<b>100%</b>	<b>101.0</b>	<b>1.0</b>
MC 5230TF	81.2	98%	102.5	1.3
CROPLAN CP25T2C	85.1	102%	105.3	1.0
<b>Site Average</b>	<b>81.5</b>		<b>103.9</b>	<b>1.1</b>
<b>LSD</b>	<b>2.8</b>		<b>0.6</b>	<b>0.4</b>
<b>CV (%)</b>	<b>2.2</b>		<b>0.3</b>	<b>23.5</b>

## Holland

**Research Contractor:** AgQuest  
**Seeding Date:** May 27, 2025  
**Harvested Plot Area:** 33.6 m<sup>2</sup>  
**Previous Crop:** Barley  
**Soil Texture:** Loam  
**Harvest Date:** September 17, 2025  
**Season Precipitation:** 263 mm  
**Disease Pressure:** Low Blackleg, high Verticillium

### Liberty Link

Variety	Yield (bu/ac)	Yield (% of check)	Maturity (days)	Lodging (1-5)
BY 7204LL	53.7	94%	107.8	1.0
BY 7206LL	55.6	98%	108.8	1.3
CS4100 LL	55.2	97%	106.5	1.3
MC 5126LL	49.7	87%	106.8	1.0
L330PC	54.2	95%	106.3	1.5
L333PC	60.6	107%	106.0	1.3
<b>L340PC (check)</b>	56.8	100%	105.8	1.3
L350PC	60.1	106%	107.3	1.0
L356PC	55.6	98%	107.3	1.8
CROPLAN CP25L3C	52.7	93%	108.0	1.3
CROPLAN CP24L3C	52.1	92%	108.8	1.0
<b>Site Average</b>	<b>55.1</b>		<b>107.2</b>	<b>1.2</b>
<b>LSD</b>	<b>4.4</b>		<b>1.9</b>	<b>0.6</b>
<b>CV (%)</b>	<b>5.5</b>		<b>1.3</b>	<b>36.3</b>

### Roundup / TruFlex

Variety	Yield (bu/ac)	Yield (% of check)	Maturity (days)	Lodging (1-5)
CS3200 TF	54.0	104%	107.5	1.0
<b>CS3300 TF (check)</b>	52.2	100%	106.0	1.3
MC 5230TF	55.2	106%	107.0	1.5
CROPLAN CP25T2C	52.2	100%	107.0	1.3
<b>Site Average</b>	<b>53.4</b>		<b>106.9</b>	<b>1.3</b>
<b>LSD</b>	<b>4.1</b>		<b>1.3</b>	<b>0.8</b>
<b>CV (%)</b>	<b>4.8</b>		<b>0.8</b>	<b>37.7</b>

## Melita

**Research Contractor:** Westman Agriculture Diversification Organization (WADO)  
**Seeding Date:** May 26, 2025  
**Harvested Plot Area:** 47.52 m<sup>2</sup>  
**Previous Crop:** Barley  
**Soil Texture:** Mentieth Loamy Fine Sand  
**Harvest Date:** Sept 23, 2025  
**Season Precipitation:** 277mm  
**Disease Pressure:** Low Blackleg, high Verticillium

## Liberty Link

Variety	Yield (bu/ac)	Yield (% of check)	Maturity (days)	Lodging (1-5)
BY 7204LL	61.3	97%	99.0	3.0
BY 7206LL	61.7	98%	100.3	3.3
CS4100 LL	56.9	90%	99.8	4.3
MC 5126LL	60.5	96%	99.5	3.3
L330PC	63.9	101%	99.0	3.0
L333PC	58.4	92%	100.8	2.8
<b>L340PC (check)</b>	63.2	100%	98.8	3.0
L350PC	62.3	99%	99.0	3.5
L356PC	63.3	100%	98.5	3.5
CROPLAN CP25L3C	60.4	96%	98.5	3.0
CROPLAN CP24L3C	60.3	95%	99.0	2.8
<b>Site Average</b>	<b>61.1</b>		<b>99.3</b>	<b>3.2</b>
<b>LSD</b>	<b>7.9</b>		<b>2.4</b>	<b>1.9</b>
<b>CV (%)</b>	<b>8.9</b>		<b>1.7</b>	<b>40.5</b>

## Roundup / TruFlex

Variety	Yield (bu/ac)	Yield (% of check)	Maturity (days)	Lodging (1-5)
CS3200 TF	67.0	108%	103.0	3.5
<b>CS3300 TF (check)</b>	61.7	100%	99.5	4.8
MC 5230TF	69.5	113%	100.5	4.8
CROPLAN CP25T2C	59.6	97%	100.5	4.0
<b>Site Average</b>	<b>64.5</b>		<b>100.9</b>	<b>4.3</b>
<b>LSD</b>	<b>13.5</b>		<b>2.3</b>	<b>1.3</b>
<b>CV (%)</b>	<b>13.1</b>		<b>1.4</b>	<b>19.2</b>

## Morden

**Research Contractor:** DL Seeds  
**Seeding Date:** June 1, 2025  
**Harvested Plot Area:** 28.8 m<sup>2</sup>  
**Previous crop:** Barley  
**Soil Texture:** Sandy Clay Loam  
**Harvest Date:** October 4, 2025  
**Season Precipitation:** 243.8 mm  
**Disease Pressure:** Low Blackleg, high Verticillium

## Liberty Link

Variety	Yield (bu/ac)	Yield (% of check)	Maturity (days)	Lodging (1-5)
BY 7204LL	77.1	92%	90.8	1.0
BY 7206LL	78.8	94%	93.0	1.3
CS4100 LL	75.8	91%	91.8	1.3
MC 5126LL	76.2	91%	89.8	1.5
L330PC	82.7	99%	89.0	1.0
L333PC	72.1	86%	89.8	1.3
<b>L340PC (check)</b>	<b>83.5</b>	<b>100%</b>	<b>89.8</b>	<b>1.5</b>
L350PC	75.5	90%	91.5	1.5
L356PC	76.1	91%	89.0	1.3
CROPLAN CP25L3C	74.8	90%	89.3	1.0
CROPLAN CP24L3C	74.2	89%	90.5	1.5
<b>Site Average</b>	<b>77.0</b>		<b>90.4</b>	<b>1.3</b>
<b>LSD</b>	<b>5.5</b>		<b>1.0</b>	<b>0.6</b>
<b>CV (%)</b>	<b>4.9</b>		<b>0.8</b>	<b>30.9</b>

## Roundup / TruFlex

Variety	Yield (bu/ac)	Yield (% of check)	Maturity (days)	Lodging (1-5)
CS3200 TF	63.1	79%	92.5	1.0
<b>CS3300 TF (check)</b>	<b>79.5</b>	<b>100%</b>	<b>88.5</b>	<b>1.3</b>
MC 5230TF	76.5	96%	89.3	1.8
CROPLAN CP25T2C	67.9	85%	91.8	1.8
<b>Site Average</b>	<b>71.8</b>		<b>90.5</b>	<b>1.4</b>
<b>LSD</b>	<b>2.6</b>		<b>1.2</b>	<b>0.6</b>
<b>CV (%)</b>	<b>2.3</b>		<b>0.8</b>	<b>23.9</b>

## Morris

**Research Contractor:** Taproot Research Ltd  
**Seeding Date:** May 25, 2025  
**Harvested Plot Area:** 42.67 m<sup>2</sup>  
**Previous Crop:** Soybeans  
**Soil Texture:** Clay  
**Harvest Date:** September 17, 2025  
**Season Precipitation:** 282.9 mm  
**Disease Pressure:** Low Blackleg, low Verticillium

### Liberty Link

Variety	Yield (bu/ac)	Yield (% of check)	Maturity (days)	Lodging (1-5)
BY 7204LL	59.0	93%	88.0	1.0
BY 7206LL	54.5	86%	93.3	1.5
CS4100 LL	56.8	90%	88.5	1.0
MC 5126LL	51.4	81%	89.8	1.5
L330PC	61.8	98%	88.5	1.5
L333PC	62.9	99%	89.8	1.3
<b>L340PC (check)</b>	63.3	100%	88.5	1.5
L350PC	60.0	95%	91.5	1.5
L356PC	60.1	95%	87.8	1.3
CROPLAN CP25L3C	56.1	89%	89.8	1.8
CROPLAN CP24L3C	56.2	89%	89.0	1.5
<b>Site Average</b>	<b>58.4</b>		<b>89.5</b>	<b>1.4</b>
<b>LSD</b>	<b>5.2</b>		<b>2.8</b>	<b>0.8</b>
<b>CV (%)</b>	<b>6.2</b>		<b>2.2</b>	<b>41.3</b>

### Roundup / TruFlex

Variety	Yield (bu/ac)	Yield (% of check)	Maturity (days)	Lodging (1-5)
CS3200 TF	48.2	77%	92.3	1.3
<b>CS3300 TF (check)</b>	63.0	100%	88.0	1.8
MC 5230TF	61.1	97%	88.0	2.8
CROPLAN CP25T2C	57.9	92%	91.3	2.0
<b>Site Average</b>	<b>57.6</b>		<b>89.9</b>	<b>1.9</b>
<b>LSD</b>	<b>4.6</b>		<b>1.8</b>	<b>0.9</b>
<b>CV (%)</b>	<b>4.9</b>		<b>1.2</b>	<b>30.1</b>

## Swan River

**Research Contractor:** New Era Ag Technologies  
**Seeding Date:** May 21, 2025  
**Harvested Plot Area:** 44.59 m<sup>2</sup>  
**Previous Crop:** Wheat  
**Soil Texture:** Sandy Loam  
**Harvest Date:** Sept 9, 2025  
**Season Precipitation:** 324.4 mm  
**Disease Pressure:** Low Blackleg, high Verticillium

### Liberty Link

Variety	Yield (bu/ac)	Yield (% of check)	Maturity (days)	Lodging (1-5)
BY 7204LL	62.1	85%	94.0	1.0
BY 7206LL	67.9	93%	97.3	1.8
CS4100 LL	64.3	88%	94.5	1.0
MC 5126LL	66.1	91%	95.8	1.0
L330PC	69.0	95%	94.0	1.2
L333PC	71.1	97%	96.3	1.0
<b>L340PC (check)</b>	<b>72.9</b>	<b>100%</b>	<b>95.8</b>	<b>1.3</b>
L350PC	67.1	92%	97.8	1.0
L356PC	69.7	96%	93.8	1.0
CROPLAN CP25L3C	65.9	90%	97.0	1.3
CROPLAN CP24L3C	62.7	86%	96.3	1.2
<b>Site Average</b>	<b>67.2</b>		<b>95.7</b>	<b>1.1</b>
<b>LSD</b>	<b>8.7</b>		<b>1.4</b>	<b>0.8</b>
<b>CV (%)</b>	<b>9.0</b>		<b>1.0</b>	<b>46.1</b>

### Roundup / TruFlex

Variety	Yield (bu/ac)	Yield (% of check)	Maturity (days)	Lodging (1-5)
CS3200 TF	75.0	106%	97.3	1.9
<b>CS3300 TF (check)</b>	<b>70.6</b>	<b>100%</b>	<b>91.5</b>	<b>3.0</b>
MC 5230TF	71.2	101%	94.3	2.9
CROPLAN CP25T2C	70.2	99%	94.5	1.6
<b>Site Average</b>	<b>71.7</b>		<b>94.4</b>	<b>2.3</b>
<b>LSD</b>	<b>9.1</b>		<b>2.1</b>	<b>1.8</b>
<b>CV (%)</b>	<b>7.9</b>		<b>1.4</b>	<b>49.3</b>

## Arborg

**Research Contractor:** PESAI  
**Seeding Date:** May 23, 2025  
**Harvested Plot Area:** 40.55 m<sup>2</sup>  
**Previous Crop:** Soybeans  
**Soil Texture:** Heavy Clay  
**Harvest Date:** September 16, 2025  
**Season Precipitation:** 104 mm  
**Disease Pressure:** Low Blackleg, high Verticillium

### Liberty Link

Variety	Yield (bu/ac)	Yield (% of check)	Maturity (days)	Lodging (1-5)
BY 7204LL	45.8	111%	95.5	1.0
BY 7206LL	56.2	136%	101.8	1.1
CS4100 LL	40.8	99%	97.0	1.0
MC 5126LL	32.9	80%	93.0	1.4
L330PC	43.8	106%	97.8	1.0
L333PC	44.8	109%	99.3	1.1
<b>L340PC (check)</b>	41.2	100%	97.8	1.0
L350PC	47.3	115%	100.8	1.1
L356PC	47.0	114%	98.8	1.1
CROPLAN CP25L3C	--	--	--	--
CROPLAN CP24L3C	--	--	--	--
<b>Site Average</b>	<b>44.4</b>		<b>97.9</b>	<b>1.1</b>
<b>LSD</b>	<b>8.1</b>		<b>1.4</b>	<b>0.3</b>
<b>CV (%)</b>	<b>12.5</b>		<b>1.9</b>	<b>16.8</b>

### Roundup / TruFlex

Variety	Yield (bu/ac)	Yield (% of check)	Maturity (days)	Lodging (1-5)
CS3200 TF	29.3	77%	91.0	1.0
<b>CS3300 TF (check)</b>	37.9	100%	91.3	1.0
MC 5230TF	28.7	76%	90.0	1.0
CROPLAN CP25T2C	--	--	--	--
<b>Site Average</b>	<b>32.0</b>		<b>90.8</b>	<b>1.0</b>
<b>LSD</b>	<b>6.9</b>		<b>2.4</b>	<b>0.0</b>
<b>CV (%)</b>	<b>12.5</b>		<b>1.6</b>	<b>0.0</b>

NOTE: The Arborg site received only 47% of normal precipitation. Varieties with fewer than 3 reps (plots) passing visual inspection were deactivated. Plots were deactivated due to poor emergence and stagey stand.