

## Winter Canola Performance Trial – 2019/20 and 2020/21

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### Trial Locations

1) Harrow, Ontario, Canada

Location: 42°02'23.3"N 82°53'41.7"W

Soil type: 61% Sand, 31% Silt, 8% Clay

O.M = 1.6%

pH = 5.6

2) Woodslee, Ontario, Canada

Location: 42°12'25.1"N 82°44'33.6"W

Soil type: 36% Sand, 35% Silt, 29% Clay

O.M = 4%

pH = 6

Planted:

Location	2019/20	2020/21
Harrow	September 11, 2019 (early block) & September 17, 2019 (true winter)	September 17, 2020
Woodslee	September 11, 2019	September 21, 2020

\*Planting Harrow in 2019 was interrupted by rain and completed 7 days later.

Planting information: 0.5"-1" planting depth, Monosem, 15" rows, Plate 7212

Plot size: 5 rows spaced 38.1cm apart, 6 m long; only the three middle rows were harvested.

### **2019/20**

Fall Fertilizer: 17.6-11.3-11.3-11.3(S) @ 197 Kg/ha

Spring Fertilizer: 38-0-0-6(S)-0.4(B) @ 437.2 Kg/ha

- Total fall N: 34 Kg/ha (30 lbs/acre)
- Total spring N: 167 Kg/ha (149 lbs/acre)
- Total spring S: 26 Kg/ha (23 lbs/acre)
- Total spring B: 1.7 Kg/ha

### **2020/21**

Fall Fertilizer: 17.6-11.3-11.3-11.3(S) @ 197 Kg/ha

Spring Fertilizer: 38-0-0-6(S)-0.4(B) @ 437.2 Kg/ha

- Total fall N: 34 Kg/ha (30 lbs/acre)
- Total spring N: 167 Kg/ha (149 lbs/acre)
- Total spring S: 26 Kg/ha (23 lbs/acre)
- Total spring B: 1.7 Kg/ha

Herbicide:

2019/20	2020/21
Treflan (trifluralin) @ 0.6 kg/ha PPI Woodslee ONLY – Assure II & Sure-mix was applied @ 48 g a.i/ha & 0.5% to control volunteer rye, on October 9, 2019.	Treflan (trifluralin) @ 0.6 kg/ha PPI Woodslee ONLY – Assure II & Sure-mix was applied @ 48 g a.i/ha & 0.5% to control volunteer rye April 2021.

Fungicide:

2019/20	2020/21
None	None

Insecticide:

2019/20	2020/21
None	Matador (lambda-cyhalothrin) @ 9.96 g a.i/ha to control cabbage seed-pod weevil May 2021

**Table 1.** Percent stand loss over winter

Entry	2019/20			2020/21			2 Year Average		
	Harrow	Woodslee	Mean	Harrow	Woodslee	Mean	Harrow	Woodslee	Mean
	% winterkill			% winterkill			% winterkill		
Mercedes	0	4.9	2.5	8.5	9.6	9.0	4.2	7.2	5.8
Phoenix CL	4.2	6.1	5.2	7.5	1.6	4.5	5.9	3.8	4.9
Plurax CL	3.1	5.5	4.3	9.3	14.0	11.7	6.2	9.7	8.0
Simplex				5.9	3.4	4.6	5.9	3.4	4.6
Kicker				1.6	2.7	2.1	1.6	2.7	2.1
CCMS2020-CL				3.6	13.6	8.6	3.6	13.6	8.6
PST19085				0.0	6.3	3.1	0.0	6.3	3.1
Griffen				3.1	4.6	3.9	3.1	4.6	3.9
CC17069-IMI	2.3	2.3	2.3	18.2	26.4	22.3	10.3	14.4	12.3
CC170-2869	0	6.9	3.4	10.4	7.0	8.7	5.2	7.0	6.1
Arrivée	0	0	0	5.6	36.5	21.1	2.8	18.2	10.5
<b>Mean</b>	2.8	5.5	4.15	6.7	11.4	9.1	4.7	8.5	7.3

Desiccation: To assist in harvest of the crop both years Reglone Desiccant (240g/L) was applied @ 400 g a.i/ha & Agral 90 @ 1L/100L of spray volume.

Harvest Date:

Location	2019/20	2020/21
Harrow	July 6, 2020	July 5, 2021
Woodslee	June 30, 2020	July 5, 2021

**Table 2.** Winter canola yields

Entry	2019/20			2020/21			2 Year Average		
	Harrow	Woodslee	Mean	Harrow	Woodslee	Mean	Harrow	Woodslee	Mean
	lbs/ac			lbs/ac			lbs/ac		
Mercedes	5217	4531	4874	4862	4509	4691	5040	4520	4783
Phoenix CL	4578	4335	4456	4668	3745	4207	4623	4040	4332
Plurax CL	5364	4928	5146	4374	4348	4361	4869	4638	4754
Simplex				5021	4614	4818	5021	4614	4818
Kicker				4010	4454	4232	4010	4454	4232
CCMS2020 -CL				4428	4295	4362	4428	4295	4362
PST19085				4637	4458	4548	4637	4458	4548
Griffen				4208	4218	4213	4208	4218	4213
CC17069- IMI	4362	3983	4173	4718	4361	4540	4540	4172	4357
CC170- 2869	4452	4127	4289	3139	3356	3248	3796	3742	3769
Arrivée	2494	3698	3096	4051	4195	4123	3273	3947	3610
<b>Mean</b>	4411	4267	4339	4374	4232	4304	4393	4250	4321