

## Winter Canola Performance Trial – 2018/19 and 2019/20

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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	2018/19	2019/20
Harrow	September 13, 2018	September 11, 2019 (early block) & September 17, 2019 (true winter)
Woodslee	September 14, 2018	September 11, 2019

\*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.

### **2018/19**

Fall Fertilizer: 6-24-24 @ 175kg/ha and 34-0-0 @ 75 Kg/ha

Spring Fertilizer: 39-0-0-5(S)-0.3(B) @ 538 Kg/ha

- Total fall N: 36 Kg/ha (32 lbs/acre)
- Total spring N: 214.42 Kg/ha (191.2 lbs/acre)
- Total spring S: 27 Kg/ha (24 lbs/acre)
- Total spring B: 1.68 Kg/ha (1.5 lbs/acre)

### **2019/20**

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

Spring Fertilizer: 28-0-0-6(S)-0.4(B) @ 437.2 Kg/ha

- Total fall N: 34 Kg/ha (30 lbs/acre)
- Total spring N: 122 Kg/ha (109 lbs/acre)
- Total spring S: 26 Kg/ha (23 lbs/acre)
- Total spring B: 1.7 Kg/ha

Herbicide:

2018/19	2019/20
Treflan (trifluralin) @ 0.6 kg/ha PPI Harrow ONLY – Lontrel was applied @ 0.2 Kg/ha to the entire trial area to control broadleaf weeds. Date of spray was (October 5, 2018) and crop staging was about 4-6 leaves.	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.

Fungicide: None

Insecticide: None

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

Entry	2018/19			2019/20			2 Year Average		
	Harrow	Woodslee	Mean	Harrow	Woodslee	Mean	Harrow	Woodslee	Mean
	% winterkill			% winterkill			% winterkill		
Mercedes	10.6	9.1	9.9	0.0	4.9	2.5	5.3	7.0	6.2
Inspiration	16.5	13.6	15.0	0.0	1.8	0.9	8.3	7.7	8.0
Phoenix CL	16.2	7.1	11.6	4.2	6.1	5.2	10.2	6.6	8.4
Plurax CL	20.2	8.6	14.4	3.1	5.5	4.3	11.7	7.1	9.4
Popular	23.8	8.8	16.3	0.0	3.0	1.5	11.9	5.9	8.9
Quartz (OP)	26.6	15.1	20.8	5.9	1.1	3.5	16.3	8.1	12.2
Hidylle	27.7	8.2	17.9	4.5	4.7	4.6	16.1	6.5	11.3
Hamour	26.5	10.0	18.2	8.2	3.3	5.7	17.4	6.7	12.0
Sitro	36.4	24.0	30.2	3.6	12.5	8.0	20.0	18.3	19.1
CC17070	26.0	20.4	23.2	3.3	0.0	1.7	14.7	10.2	12.4
CC17069- IMI	34.6	5.1	19.8	2.3	2.3	2.3	18.5	3.7	11.1
CC170- 2869	35.2	28.3	31.7	0.0	6.9	3.4	17.6	17.6	17.6
CC170208	45.6	34.8	40.2	3.6	24.6	14.1	24.6	29.7	27.2
Arrivée				0.0	0.0	0.0	0.0	0.0	0.0
<b>Mean</b>	26.6	14.8		2.8	5.5		13.7	9.6	

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	2018/19	2019/20
Harrow	July 9, 2019 (early block) & July 12, 2019 (true winter)	July 6, 2020 (entire trial)
Woodslee	July 8, 2019 (entire trial)	June 30, 2020

**Table 2.** Winter canola yields

Entry	2018/19			2019/20			2 Year Average		
	Harrow	Woodslee	Mean	Harrow	Woodslee	Mean	Harrow	Woodslee	Mean
	lbs/ac			lbs/ac			lbs/ac		
Mercedes	3562	4736	4149	5217	4531	4874	4390	4634	4512
Inspiration	3940	4010	3975	4474	3955	4214	4207	3983	4095
Phoenix CL	3928	3823	3876	4578	4335	4456	4253	4079	4166
Plurax CL	4002	4136	4069	5364	4928	5146	4683	4532	4607
Popular	4259	4809	4534	5061	4608	4835	4660	4709	4684
Quartz (OP)	4104	4241	4172	5502	4690	5096	4803	4465	4634
Hidylle	3704	3838	3771	4735	4482	4609	4219	4160	4190
Hamour	4340	4322	4331	4797	4454	4625	4569	4388	4478
Sitro	2971	2870	2921	3715	2972	3344	3343	2921	3132
CC17070	3991	2933	3462	5314	4601	4958	4653	3767	4210
CC17069-IMI	3985	3328	3656	4362	3983	4173	4174	3655	3914
CC170-2869	3821	3144	3482	4452	4127	4289	4136	3635	3886
CC170208	4088	2958	3523	4298	4159	4228	4193	3558	3876
Arrivée				2494	3698	3096	2494	3698	3096
<b>Mean</b>	3900	3781		4597	4252		4198	4013	