

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

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| Trial Location Information |                             |                              |
|----------------------------|-----------------------------|------------------------------|
|                            | Harrow                      | Woodslee                     |
| Location:                  | 42°02'23.3"N 82°53'41.7"W   | 42°12'25.1"N 82°44'33.6"W    |
| Soil type:                 | 61% Sand, 31% Silt, 8% Clay | 36% Sand, 35% Silt, 29% Clay |
| Organic Matter             | O.M = 1.6% pH = 5.6         | O.M = 4% pH = 6              |

| Planting Dates |               |   |
|----------------|---------------|---|
|                | 2018/19       | 2019/20   |
| Harrow         | Sept 13, 2018 | Sept 11, 2019 (early block) & Sept 17, 2019 (true winter) |
| Woodslee       | Sept 14, 2018 | Sept 11, 2019   |

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

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

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

| Fertilizer Applications |  |  |
|-------------------------|--|--|
|                         | Fall Fertilizer                                | Spring Fertilizer  |
| 2018/19                 | 6-24-24 @ 175kg/ha<br>and<br>34-0-0 @ 75 Kg/ha | 39-0-0-5(S)-0.3(B) @ 538 Kg/ha<br>• Total fall N: 36 Kg/ha (32 lbs/acre)<br>• Total spring N: 214.42 Kg/ha (191.2 lbs/acre)<br>• Total spring S: 27 Kg/ha (24 lbs/acre)<br>• Total spring B: 1.68 Kg/ha (1.5 lbs/acre) |
| 2019/20                 | 17.6-11.3-11.3-11.3(S) @ 197 Kg/ha             | 28-0-0-6(S)-0.4(B) @ 437.2 Kg/ha<br>• Total fall N: 34 Kg/ha (30 lbs/acre)<br>• Total spring N: 122 Kg/ha (109 lbs/acre)<br>• Total spring S: 26 Kg/ha (23 lbs/acre)<br>• Total spring B: 1.7 Kg/ha                    |

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

**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 Dates |  |                             |
|---------------|--|-----------------------------|
|               | 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 1 — Percent Stand Loss Over Winter**

|             | 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> | <b>26.6</b>  | <b>14.8</b> |      | <b>2.8</b>   | <b>5.5</b> |      | <b>13.7</b>    | <b>9.6</b> |      |

**Table 2 — Winter Canola Yields**

|             | 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> | <b>3900</b> | <b>3781</b> |      | <b>4597</b> | <b>4252</b> |      | <b>4198</b>    | <b>4013</b> |      |