**Winter Canola Performance Trial – 2020/21 and 2021/22**

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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 | 2020/21 | 2021/22 |
| Harrow | September 17, 2020 | September 9, 2021 |
| Woodslee | September 21, 2020 | September 17, 2021 |

\*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.

|  |  |
| --- | --- |
| **2020/21** | **2021/22** |
| 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 | 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:

|  |  |
| --- | --- |
| **2020/21** | **2021/22** |
| 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. | Treflan (trifluralin) @ 0.6 kg/ha PPI  Assure II & Sure-mix was applied @ 48 g a.i/ha & 0.5% (fall applied at both locations) |

Fungicide:

|  |  |
| --- | --- |
| **2020/21** | **2021/22** |
| None | None |

Insecticide:

|  |  |
| --- | --- |
| **2020/21** | **2021/22** |
| Matador (lambda-cyhalothrin) @ 9.96 g a.i/ha to control cabbage seed-pod weevil May 2021 | None |

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

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **2020/21** | | | | **2021/22** | | | | **2 Year Average** | | |
|  | **Harrow** | **Woodslee** | **Mean** | **Harrow** | | **Woodslee** | **Mean** | **Harrow** | | **Woodslee** | **Mean** |
| **Entry** | \_\_\_\_\_\_\_\_\_ % winterkill \_\_\_\_\_\_\_\_\_ | | | | \_\_\_\_\_\_\_\_\_ % winterkill \_\_\_\_\_\_\_\_\_ | | | | \_\_\_\_\_\_\_\_\_ % winterkill \_\_\_\_\_\_\_\_\_ | | |
| Mercedes | 8.5 | 9.6 | 9.0 | 25.5 | | 35.4 | 30.5 | 17.0 | | 22.5 | 19.7 |
| Phoenix CL | 7.5 | 1.6 | 4.5 | 15.3 | | 45.2 | 30.3 | 11.4 | | 23.4 | 17.4 |
| Plurax CL | 9.3 | 14.0 | 11.7 | 9.3 | | 20.4 | 14.9 | 9.3 | | 17.2 | 13.3 |
| Simplex | 5.9 | 3.4 | 4.6 | 19.2 | | 29.2 | 24.2 | 12.6 | | 16.3 | 14.4 |
| Kicker | 1.6 | 2.7 | 2.1 | 16.6 | | 18.3 | 17.5 | 9.1 | | 10.5 | 9.8 |
| CCMS2020-CL | 3.6 | 13.6 | 8.6 |  | |  |  | 3.6 | | 13.6 | 8.6 |
| PST19085 | 0.0 | 6.3 | 3.1 | 44.4 | | 50.3 | 47.4 | 22.2 | | 28.3 | 25.2 |
| PST21BAC07 |  |  |  | 17 | | 84.4 | 50.7 | 17.0 | | 84.4 | 50.7 |
| Griffen | 3.1 | 4.6 | 3.9 | 12.9 | | 61.3 | 37.1 | 8.0 | | 33.0 | 20.5 |
| CC17069-IMI | 18.2 | 26.4 | 22.3 | 31.8 | | 22.5 | 27.2 | 25.0 | | 24.5 | 24.7 |
| CC170-2869 | 10.4 | 7.0 | 8.7 | 9.6 | | 50 | 29.8 | 10.0 | | 28.5 | 19.3 |
| Arrivée | 5.6 | 36.5 | 21.1 | 20.4 | | 32.3 | 26.4 | 13.0 | | 34.4 | 23.7 |
| **Mean** | 6.7 | 11.4 | 9.1 | 20.2 | | 40.8 | 30.5 | 13.4 | | 26.1 | 19.8 |

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** | **2020/21** | **2021/22** |
| Harrow | July 5, 2021 | July 4, 2022 |
| Woodslee | July 5, 2021 | July 4, 2022 |

**Table 2.** Winter canola yields

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **2020/21** | | | **2021/22** | | | **2 Year Average** | | |
|  | **Harrow** | **Woodslee** | **Mean** | **Harrow** | **Woodslee** | **Mean** | **Harrow** | **Woodslee** | **Mean** |
| **Entry** | \_\_\_\_\_\_\_\_\_ lbs/ac \_\_\_\_\_\_\_\_\_ | | | \_\_\_\_\_\_\_\_\_ lbs/ac \_\_\_\_\_\_\_\_\_ | | | \_\_\_\_\_\_\_\_\_ lbs/ac \_\_\_\_\_\_\_\_\_ | | |
| Mercedes | 4862 | 4509 | 4691 | 3505 | 3373 | 3439 | 4184 | 3941 | 4065 |
| Phoenix CL | 4668 | 3745 | 4207 | 4544 | 2994 | 3769 | 4606 | 3370 | 3988 |
| Plurax CL | 4374 | 4348 | 4361 | 3786 | 4833 | 4310 | 4080 | 4591 | 4335 |
| Simplex | 5021 | 4614 | 4818 | 4130 | 2166 | 3148 | 4576 | 3390 | 3983 |
| Kicker | 4010 | 4454 | 4232 | 4592 | 4684 | 4638 | 4301 | 4569 | 4435 |
| CCMS2020-CL | 4428 | 4295 | 4362 |  |  |  | 4428 | 4295 | 4362 |
| PST19085 | 4637 | 4458 | 4548 | 3633 | 3385 | 3509 | 4135 | 3922 | 4029 |
| PST21BAC07 |  |  |  | 4126 | 1304 | 2715 | 4126 | 1304 | 2715 |
| Griffen | 4208 | 4218 | 4213 | 3549 | 2034 | 2792 | 3879 | 3126 | 3502 |
| CC17069-IMI | 4718 | 4361 | 4540 | 3035 | 1935 | 2485 | 3877 | 3148 | 3513 |
| CC170-2869 | 3139 | 3356 | 3248 | 1611 | 1272 | 1442 | 2375 | 2314 | 2345 |
| Arrivée | 4051 | 4195 | 4123 | 2977 | 1893 | 2435 | 3514 | 3044 | 3279 |
| **Mean** | 4374 | 4232 | 4304 | 3590 | 2716 | 3153 | 3982 | 3474 | 3728 |