

Winter Canola Planting Date Trial – 2016/17

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 Harrow, Ontario, Canada
 Elevation: 191m
 Location: 42°02'23.3"N 82°53'41.7"W

Experimental design: Randomized complete Split-plot design with Plant date as the whole plot and hybrids as the spit plot.

Fall Fertilizer: 16-24-24 @ 175kg/ha

Spring Fertilizer: 41-0-0-1(S)-0.744(B) @ 490Kg/ha and 21-0-0 @ 63 Kg/ha applied on April 13 2017

- Total fall N: 40Kg/ha (35.7lbs/acre)
- Total spring N: 215Kg/ha (191.9lbs/acre)
- Total spring S: 20Kg/ha (17.9lbs/acre)
- Total spring B: 3.7Kg/ha (3.3lbs/acre)

Soil type: Sandy Loam, pH = 5.8

Herbicide: Treflan (trifluralin) @ 0.6 kg/ha PPI

Planting information: 0.5" planting depth, Monosem, 15" rows, Plate 7212, PPD~890,000 plants/ha

- Mercedes seeded at 5.5 lb/ac
- Inspiration at 3.5 lb/ac
- CC17070 at 4 lb/ac

Desiccant: Eragon LQ (342 g/L) @ 0.04 Kg/ha and Roundup (360g/L) @ 0.9 Kg/ha with Merge adjuvant @ 1L/ha.

Table 1. Percent stand loss over winter for three winter canola hybrids and five planting dates.

| | Sept 1 | Sept 13 | Sept 22 | Oct 6 | Oct 17 |
|-------------|--------|---------|---------|-------|--------|
| | % | | | | |
| Mercedes | 30 | 34 | 12 | 10 | 47 |
| Inspiration | 36 | 15 | 16 | 22 | 60 |
| CC17070 | 51 | 18 | 13 | 12 | 47 |
| Mean | 39 | 22 | 14 | 15 | 51 |

Table 2. Date of full flowering; 50% flowers open on main raceme open (BBCH65) for three winter canola hybrids and five planting dates.

| | Sept 1 | Sept 13 | Sept 22 | Oct 6 | Oct 17 |
|-------------|----------|----------|----------|--------|--------|
| Mercedes | May 3 | May 1 | May 5 | May 12 | May 19 |
| Inspiration | May 3 | May 1 | May 8 | May 12 | May 19 |
| CC17070 | April 26 | April 24 | April 28 | May 9 | May 17 |

Table 3. Date of pod ripening; Beginning of ripening: all pods have reached final size, seed green, filling pod cavity (BBCH80) for three winter canola hybrids and five planting dates.

| | Sept 1 | Sept 13 | Sept 22 | Oct 6 | Oct 17 |
|-------------|--------|---------|---------|---------|---------|
| Mercedes | May 26 | May 30 | June 01 | June 06 | June 19 |
| Inspiration | May 27 | May 30 | June 01 | June 06 | June 19 |
| CC17070 | May 19 | May 21 | May 30 | June 01 | June 13 |

Table 4. Date of seed maturity for earliest desiccant application for three winter canola hybrids and five planting dates. Desiccant was not applied at these dates but the crop was deemed mature enough to have done so.

| | Sept 1 | Sept 13 | Sept 22 | Oct 6 | Oct 17 |
|-------------|---------|---------|---------|---------|---------|
| Mercedes | June 28 | June 26 | June 28 | July 02 | July 12 |
| Inspiration | June 28 | June 27 | June 28 | July 02 | July 12 |
| CC17070 | June 27 | June 20 | June 21 | June 23 | July 09 |

Table 5. Average yields, in Kg/ha at harvest for three winter canola hybrids and five planting dates.

| | Sept 1 | Sept 13 | Sept 22 | Oct 6 | Oct 17 |
|-------------|--------|---------|---------|-------|--------|
| | Kg/ha | | | | |
| Mercedes | 6339 | 6990 | 5734 | 6840 | 3922 |
| Inspiration | 5077 | 7284 | 7069 | 6415 | 3598 |
| CC17070 | 4685 | 5160 | 6581 | 4943 | 2934 |
| Mean | 5367 | 6478 | 6461 | 6066 | 3485 |