

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