

**Project Title:** 2021 Spring Canola Variety Trial

**Objective:** To evaluate the yield and quality of different canola varieties.

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**Summary:**

Twenty-two canola varieties were planted on April 28<sup>th</sup>, 2021 and emerged on May 8<sup>th</sup>, 2021. The rest of the management is detailed in Table 1.

We planted this trial at uniform plant population, but with final plant count ranging from 8-10 plants/ft<sup>2</sup> depending on germination performance (Table 2). Flower occurrences ranged from 176 (DG 200CL) to 170 (NCC101S) julian days. Plant height ranged from 49.7 in (CP930RR) to 59.2 in (InVigor L357P). The average plant height was 56.2 in. Lodging score ranged from 0% (DKTFLL21SC) to 81.7% (BY 6211TF). The average lodging percentage score was 30.1%. This study had minimal shattering. Yield ranged from 2639 lbs/A (CP9978TF) to 3559 lbs/A (InVigor L345PC). The average yield was 3158.9 lbs/A. The average test weight (TWT) was 51.8 lbs/bu. Oil percentage ranged from 44.4% (NCC101S) to 50.4% (CP930RR). The average oil percentage for all cultivars was 47.9%.

Shattering was minimal for all varieties in this trial.

**Table 1.** Management Information

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<b>Seeding date:</b>	4/28/2021	<b>Field Location:</b>	X3
<b>Julian date:</b>	118	<b>Harvest date:</b>	8/13/2021
<b>Seeding rate:</b>	12 seeds/ sq. ft.	<b>Julian date:</b>	225
<b>Previous crop:</b>	Barley	<b>Soil type:</b>	Creston Silt Loam
<b>Herbicide:</b>	Stinger (6/2/2021) E-Shredder (6/17/2021)	<b>Tillage:</b>	Conventional
<b>Insecticide:</b>	None	<b>Soil residual nutrient (NO<sub>3</sub><sup>-</sup>, P, K lb/A):</b>	101-24-288 (Fall, 2020)
<b>Fungicide:</b>	Quadris (6/17/21)	<b>Nutrient fertilizer applied (N, P<sub>2</sub>O<sub>5</sub>, K<sub>2</sub>O lb/A):</b>	75-30-35-10S (Spring, 2021)

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**Table 2.** 2021 Spring Canola Variety Trial grown under dryland condition at Kalispell, MT.

<b>Cultivar</b>	<b>YLD lbs/A</b>	<b>FLWR julian</b>	<b>PLNT no./ft<sup>2</sup></b>	<b>LOD ----- (%) -----</b>	<b>SHTTR -----</b>	<b>HT inch</b>	<b>TWT lbs/bu</b>	<b>Oil %</b>
InVigor L345PC	3559.0	174.0	10.5	50.1	0.0	57.2	51.8	48.0
InVigor L340PC	3541.0	174.0	9.0	27.5	0.0	58.5	51.3	47.6
NC401 TF	3492.0	174.0	8.7	6.5	0.3	54.6	52.7	48.5
NCC101S	3402.0	170.0	10.3	21.3	0.0	50.2	52.4	44.4
DKTFLL21SC	3379.0	172.0	8.0	0.0	0.0	56.1	52.0	49.3
NC471 TF	3369.5	174.0	8.8	6.3	1.0	57.3	51.7	47.4
X19D94214	3312.6	173.0	9.5	32.5	0.3	54.7	52.0	47.8
InVigor L234PC	3302.4	174.0	9.3	26.3	0.3	56.9	51.5	47.5
InVigor L357P	3257.2	175.0	8.8	13.8	0.0	59.2	52.5	47.5
InVigor L233P	3239.3	174.0	10.0	45.0	0.3	58.7	51.6	47.6
CP7130LL	3205.5	174.0	9.8	22.5	1.0	58.4	51.6	48.0
DG 200CL	3071.9	176.0	10.0	8.8	1.0	56.1	51.7	48.3
CP930RR	3057.0	170.0	9.7	9.6	1.0	49.7	51.6	50.4
DKTF91SC	3044.4	172.0	10.3	16.3	0.0	55.4	51.4	49.2
BY 5125CL	3032.6	174.0	10.0	33.8	1.1	57.4	51.7	49.4
BY 6211TF	3022.0	173.0	7.7	81.7	0.0	58.9	52.1	46.9
DG 760TM	3006.0	173.0	9.7	30.5	0.5	54.2	52.1	48.0
CP7144LL	2998.8	175.0	9.0	6.3	0.3	55.4	51.4	47.6
InVigor LR344PC	2970.0	174.0	7.8	36.3	0.0	57.7	51.6	47.6
DG 761TM	2903.8	175.0	9.8	60.0	1.0	58.3	52.0	48.4
CP9919RR	2800.5	171.0	8.0	63.5	1.0	51.5	51.4	49.0
CP9978TF	2639.0	173.0	8.7	39.9	0.0	58.6	52.0	47.0
<b>Mean</b>	3158.9	173.3	9.2	30.1	0.4	56.2	51.8	47.9
<b>CV (%)</b>	14.3	0.4	18.8	65.0	241.0	5.1	0.6	2.1
<b>LSD</b>	570.9	0.9	3.1	ns	ns	3.4	0.3	1.2
<b>Pr &gt; F</b>	0.005	<.0001	ns	<0.0001	0.292	<.0001	<.0001	<.0001

YLD, yield adjusted to 8% moisture; FLWR, flowering; PLNT, plant count; LOD, lodging; SHTR, shatter; HT, plant height; TWT, test weight.