

Table 1. MSU spring canola variety trial (irrigated), Western Agricultural Research Center, Corvallis, MT, 2018.

CULTIVAR	SOURCE	HERB RESIST	COUNT (ft ²)	FLWR DATE (julian)	CNPY HT (in)	LODGE ¹ ------(1-9)-----	SHTTR ²	YIELD ^{3,4} (lb/ac)	TEST WT (lb/bu)	OIL ⁴ (%)
5545 CL	BrettYoung	Clearfield	14.4	172.5	40.2	1	1.2	2631	49	54.8
V32-1CL	Cargill	Clearfield	12.3	178.5	38.8	1	1.8	2601	50.3	51
15CH2081	Cargill	Conventional	16.6	183	36	1	1	2092	48.3	54.6
16CH5186	Cargill	Conventional	16.8	183	33.5	1	1	2145	44.7	52.7
InVigor L140P	BASF	Liberty Link	14.1	176	40.8	1	1	1981	48.4	50.9
InVigor L233P	BASF	Liberty Link	16	173	40.2	1	1.2	2834	48.7	51.8
4187 RR	BrettYoung	Roundup Ready	15.7	178.2	35.5	1	1.2	2628	47.6	54.2
6074 RR	BrettYoung	Roundup Ready	14.9	174.5	36	1	1	2248	48	55.2
6090 RR	BrettYoung	Roundup Ready	13.1	178.2	42	1	2.5	2890	46.4	53.3
11H4030	Cargill	Roundup Ready	15.1	169	36.8	1	2.8	3585	46.5	51.9
15RH1142	Cargill	Roundup Ready	15	175.2	37	1	1.5	2487	48.6	53.1
15RH1167	Cargill	Roundup Ready	16.9	178.5	36.8	1	1.5	2651	48.8	52.3
HyCLASS 730	CROPLAN by WinField	Roundup Ready	13.6	172	38.8	1	1.2	3249	48.1	55.5
HyCLASS 930	CROPLAN by WinField	Roundup Ready	15.2	171.2	38	1	1.5	2774	47.8	56
HyCLASS 955	CROPLAN by WinField	Roundup Ready	13.7	172	39.2	1	1.2	3144	47	55.7
DKL 35-23	DEKALB	Roundup Ready	13.7	172	38.8	1	1	2744	48.3	55
DKL 70-10	DEKALB	Roundup Ready	16.5	172.5	39.8	1	1	2402	48.5	54.4
C5507	Cibus	Sulfonylurea	13.6	174.2	39.2	1	1	2016	46.7	54.5
Exp201801	Cibus	Sulfonylurea	13.2	175.2	37.5	1	1	2098	45	55.8
Exp201803	Cibus	Sulfonylurea	8.8	173	39	1	1	2204	46.2	53.1
Mean			14.5	175.1	38.2	1	1.3	2570	47.6	53.8
CV%			21.3	0.9	6		48.1	19.9	4.1	2.8
LSD			NS ⁵	2.1	3.2		0.9	NS ⁵	2.8	2.2
P-Value			0.1174	<0.001	<0.001		0.0064	<0.001	0.0238	<0.001

Bold = top performer(s); **Bold** = statistically equivalent to top performer(s); ¹ 1 = no lodging; 9 = all plants lodged; ² 1 = no shattering; 9 = all plants shattered

³ YIELD data at this location may be falsely elevated due to manual (i.e., 1-m² subplots clipped by hand) versus mechanical harvest methods

⁴ Adjusted to 8.5% moisture; ⁵ Fisher's protected LSD not significant when CV% > 15 (YIELD only) and/or P-Value > 0.05

Table 2. List of cultivars grouped by herbicide resistance system with disease and shatter ratings, MSU spring canola variety trial, 2018. Rating information was obtained from representatives of respective source companies.

CULTIVAR	SOURCE	-----RATING-----			
		Blackleg	Fusarium	Clubroot	Pod Shatter
<i>Clearfield</i>					
5545 CL	BrettYoung	R			
V32-1CL	Cargill Global Edible Oil Solutions	R	R		
<i>Conventional</i>					
15CH2081	Cargill Global Edible Oil Solutions	R	R	R	
16CH5186	Cargill Global Edible Oil Solutions	R	R	R	
<i>Liberty Link</i>					
InVigor L140P	BASF	R			R
InVigor L233P	BASF	R			R
<i>Roundup Ready</i>					
11H4030	Cargill Global Edible Oil Solutions	R	R		
15RH1142	Cargill Global Edible Oil Solutions	R	R		
15RH1167	Cargill Global Edible Oil Solutions	R	R		
4187 RR	BrettYoung	R		R	
6074 RR	BrettYoung	R			
6090 RR	BrettYoung	R		R	
HyCLASS 730	CROPLAN by WinField	R			
HyCLASS 930	CROPLAN by WinField	R			
HyCLASS 955	CROPLAN by WinField	R		R	
DKL 35-23	Dekalb	MR			
DKL 70-10	Dekalb	R			
<i>Sulfonylurea</i>					
C5507	Cibus	R			
Exp201801	Cibus	R			
Exp201803	Cibus	R			

R = Resistant; MR = Moderately Resistant

Table 3. Cultural, meteorological, and soils information, MSU spring canola variety trial, Western Agricultural Research Center, Corvallis, MT, 2018.

Irrigation (inches)	3
Tillage	Conventional
Row Spacing (inches)	6.5
Seeding Date	3-May
Harvest Date	10-Sep
Harvest Type	Hand clipped (1 m ² plots)
Previous Crop	Oats
Fertilizer	100 lbs N, 15 lbs P & K
Pesticide	Assure 2 post-emergence; Stinger post-emergence
Pests	Click beetle, birds
2017 Seasonal Precip (Apr thru Aug) in Inches	5.18
Avg. Seasonal Precip (Apr thru Aug) in Inches	5.84
Last Killing Frost in Spring (32°F)	2-May
First Killing Frost in Fall (32°F)	14-Sep
Frost-free Period (days)	195
Max Summer Temperature (°F)	97
Date of Max Summer Temperature	11-Aug
Soil Type	Burnt Fork loam
Elevation (feet)	3597
Note(s)	Harvest method may have falsely elevated yields