

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

CULTIVAR	SOURCE	HERB RESIST	COUNT (ft ²)	FLWR DATE (julian)	CNPY HT (in)	LODGE ¹ ------(1-9)-----	SHTTR ²	YIELD ³ (lb/ac)	TEST WT (lb/bu)	OIL ³ (%)
5545 CL	BrettYoung	Clearfield	7	169	39.5	6.5	1	1419	54	52.7
V32-1CL	Cargill	Clearfield	9.2	171	36	7	1	1208	53.1	49.4
15CH2081	Cargill	Conventional	11.9	176	39.5	2.8	1	1555	52.9	53.3
16CH5186	Cargill	Conventional	10.9	174	36.2	2.8	1	1178	53.9	52.2
4187 RR	BrettYoung	Roundup Ready	8.6	173	40	2.8	1	1539	53.8	52.4
6074 RR	BrettYoung	Roundup Ready	9.2	171.2	36.5	5.2	1	1518	52.8	52
6090 RR	BrettYoung	Roundup Ready	8.8	176.2	45.2	3	1	1182	52.9	51.8
11H4030	Cargill	Roundup Ready	7.8	165	31	9	1	1579	52.9	50.2
15RH1142	Cargill	Roundup Ready	8.6	176.5	42.8	2.2	1	1265	52.9	51.5
15RH1167	Cargill	Roundup Ready	9.9	175	37.2	2	1	1287	53.5	52.4
HyCLASS 730	CROPLAN by WinField	Roundup Ready	11.4	165.2	32.2	8	1	1641	53.9	53.1
HyCLASS 930	CROPLAN by WinField	Roundup Ready	8.5	164.8	28.2	7.8	1	1491	53	53.5
HyCLASS 955	CROPLAN by WinField	Roundup Ready	9.2	165.8	31.8	8	1	1683	53	52.7
DKL 35-23	DEKALB	Roundup Ready	9.1	165.5	29.8	7	1	1590	54	52
DKL 70-10	DEKALB	Roundup Ready	9.2	166	31.2	5.8	1	1605	53.4	51.9
C5507	Cibus	Sulfonylurea	8.1	173.5	39	7	1	1165	53	51.6
Exp201801	Cibus	Sulfonylurea	7.4	176	47.2	2.8	1	953	52	51.2
Exp201803	Cibus	Sulfonylurea	8.2	176.2	40.2	4.8	1	540	51	48
Mean			9.1	171.1	36.9	5.2	1	1355	53.1	51.8
CV%			21.6	0.7	12	12.4		12.2	2.1	1.8
LSD			NS ⁴	1.8	6.3	0.9		235	NS ⁴	1.3
P-Value			0.0571	<0.001	<0.001	<0.001		<0.001	0.0598	<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 Adjusted to 8.5% moisture; ⁴ 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, Eastern Agricultural Research Center, Sidney, MT, 2018.

Irrigation (inches)	2.68
Tillage	Conventional
Row Spacing (inches)	12
Seeding Date	3-May
Harvest Date	14-Aug
Harvest Type	Direct cut
Previous Crop	Sugarbeet
Fertilizer	60 lb N/ac
Pesticide	Stinger, 6 fl oz/ac; Sevin, 1 qt/ac
Pests	Early season flea-beetle
2018 Seasonal Precip (Apr thru Aug) in Inches	9.52
Avg. Seasonal Precip (Apr thru Aug) in Inches	9.56
Last Killing Frost in Spring (32°F)	24-Apr
First Killing Frost in Fall (32°F)	28-Sep
Frost-free Period (days)	157 days
Max Summer Temperature (°F)	103
Date of Max Summer Temperature	11-Aug and 12-Aug
Soil Type	clay loam
Elevation (feet)	1929