

Table 1. MSU spring canola variety trial (dryland), Western Triangle Agricultural Research Center, Conrad, 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	-	176.2	42	1	1	1465	54	46.1
InVigor L140P	BASF	Liberty Link	-	178.5	41.2	1	1	1265	53.7	45
InVigor L233P	BASF	Liberty Link	-	176.5	39.8	1	1	1145	53.7	45.9
4187 RR	BrettYoung	Roundup Ready	-	180.2	42.5	1	1	1577	53.5	47.4
6074 RR	BrettYoung	Roundup Ready	-	178.5	42.8	1	1	1468	53.2	46.2
6090 RR	BrettYoung	Roundup Ready	-	177.2	47.5	1	1	1310	53.1	44.6
11H4030	Cargill	Roundup Ready	-	175.5	31.2	1	1	1340	53.5	46.1
HyCLASS 730	CROPLAN by WinField	Roundup Ready	-	176.2	37	1	1	1664	52.9	48.8
HyCLASS 930	CROPLAN by WinField	Roundup Ready	-	175	36.8	1	1	1581	53.4	47.5
HyCLASS 955	CROPLAN by WinField	Roundup Ready	-	175.8	37	1	1	1317	53.4	48.5
DKL 35-23	DEKALB	Roundup Ready	-	176.5	35.5	1	1	1402	53.1	45.8
DKL 70-10	DEKALB	Roundup Ready	-	176	38.2	1	1	1577	53.5	46.6
C5507	Cibus	Sulfonylurea	-	176.8	44	1	1	1339	52.2	48.7
Exp201801	Cibus	Sulfonylurea	-	178.5	40	1	1	1277	52.9	46.5
Exp201803	Cibus	Sulfonylurea	-	175.8	42.2	1	1	987	52.7	46.3
Mean			-	176.9	39.9	1	1	1381	53.2	46.7
CV%				1	5.6			14.7	0.7	3.1
LSD				2.5	3.2			289	0.5	2.1
P-Value				0.0054	<0.001			0.0018	<0.001	0.0022

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, Spring Canola Variety Trial, Western Triangle Agricultural Research Center, Conrad, MT, 2018.

Irrigation (inches)	None
Tillage	Chem-fallow barley stubble
Row Spacing (inches)	12
Seeding Date	2-May
Swath date	14-Aug
Thrash date	21-Aug
Previous Crop	Barley
Fertilizer	100-20-20-20
Pesticide	RT3 pre-plant, 40 oz/ac, Sevin XLR Plus, 1.5 qt/ac
Pests	Flea Beetle
2018 Seasonal Precip (Apr thru Aug) in Inches	5.69
Avg. Seasonal Precip (Apr thru Aug) in Inches	8.35
Last Killing Frost in Spring (32°F)	18-May
First Killing Frost in Fall (32°F)	15-Sep
Frost-free Period (days)	120
Max Summer Temperature (°F)	100° F
Date of Max Summer Temperature	18-Aug
Soil Type	clay loam
Elevation (feet)	3700