

Table 1. MSU spring canola variety trial (dryland), Southern Agricultural Research Center, Huntley, 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	10.7	168.5	48	1.2	2.2	1426	50	43.8
4187 RR	BrettYoung	Roundup Ready	11.9	172.2	51.8	1.2	1.5	1631	50	45.1
6074 RR	BrettYoung	Roundup Ready	13.1	169.5	46.8	1.2	2	1605	50	43
6090 RR	BrettYoung	Roundup Ready	12.4	173.2	52.8	1	3	1158	49.1	41.9
11H4030	Cargill	Roundup Ready	12.6	164.8	37.8	2.2	2.8	1253	49.3	40.6
HyCLASS 730	CROPLAN by WinField	Roundup Ready	13.1	164.8	40.8	2.8	2.5	1195	49.9	42.9
HyCLASS 930	CROPLAN by WinField	Roundup Ready	13.2	164.2	40	2.5	2.5	1234	49.5	43.5
HyCLASS 955	CROPLAN by WinField	Roundup Ready	13.7	165.2	41.2	1.5	2.5	1271	49.5	43
DKL 35-23	DEKALB	Roundup Ready	12.9	165	37.5	2.2	2.2	1191	48.5	40.4
DKL 70-10	DEKALB	Roundup Ready	12.3	164.8	40.2	1.8	3	1435	50	41.9
C5507	Cibus	Sulfonylurea	11.5	171.5	44.8	1	1.5	1250	48.6	42.2
Exp201801	Cibus	Sulfonylurea	12.3	173.2	41.5	1	1	847	45.7	41.4
Exp201803	Cibus	Sulfonylurea	13.7	174	42.2	1	1.2	556	45.8	38.7
Mean			12.6	168.5	43.5	1.6	2.2	1235	48.9	42.2
CV%			21.5	0.6	5.4	40.5	35.3	11	1.9	1.4
LSD			NS ⁴	1.5	3.4	0.9	1.1	196	1.4	0.9
P-Value			0.9492	<0.001	<0.001	<0.001	0.0053	<0.001	<0.001	<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, Southern Agricultural Research Center, Huntley, MT, 2018.

Irrigation (inches)	None
Tillage	Minimum-Till
Row Spacing (inches)	7
Seeding Date	27-Apr
Harvest Date	10-Aug
Harvest Type	Direct cut
Previous Crop	chem fallow
Fertilizer	100-0-0-0
Pesticide	PowerMax pre-plant
Pests	Sporatic flea beetle (left uncontrolled)
2018 Seasonal Precip (Apr thru Aug) in Inches	8.83
Avg. Seasonal Precip (Apr thru Aug) in Inches	6.22
Last Killing Frost in Spring (32°F)	25-Apr
First Killing Frost in Fall (32°F)	
Frost-free Period (days)	
Max Summer Temperature (°F)	99
Date of Max Summer Temperature	7-Jul
Soil Type	Fort Collins Clay Loam
Elevation (feet)	3000