

Table 1. MSU spring canola variety trial (dryland), Central Agricultural Research Center, Moccasin, MT, 2018.

CULTIVAR	SOURCE	HERB RESIST	COUNT (ft ²)	FLWR DATE (julian)	PLANT HT (in)	LODGE ¹ ------(1-9)-----	SHTTR ²	YIELD ³ (lb/ac)	TEST WT (lb/bu)	OIL ³ (%)
5545 CL	BrettYoung	Clearfield	11.6	171.8	44.8	1	1	1011	50.8	53.5
4187 RR	BrettYoung	Roundup Ready	13	173	45	1	1	1134	51.2	53.3
6074 RR	BrettYoung	Roundup Ready	12	171	40.8	1	1	1115	51	54.9
6090 RR	BrettYoung	Roundup Ready	11.1	173	46.5	1	1	864	50.3	54.6
11H4030	Cargill	Roundup Ready	13.7	165.2	34	1	1	1099	50.9	53.5
HyCLASS 730	CROPLAN by WinField	Roundup Ready	13.2	166.2	36.5	1	1	1035	51.1	56.2
HyCLASS 930	CROPLAN by WinField	Roundup Ready	12.1	166.5	39	1	1	1058	51.4	54.7
HyCLASS 955	CROPLAN by WinField	Roundup Ready	12.8	167	37.8	1	1	1084	51	56.2
DKL 35-23	DEKALB	Roundup Ready	11.3	168.2	38.8	1	1	944	51.2	55.3
DKL 70-10	DEKALB	Roundup Ready	11.4	169	40	1	1	1128	50.8	54.2
C5507	Cibus	Sulfonylurea	10.4	171.2	44	1	1	1042	50	54.8
Exp201801	Cibus	Sulfonylurea	10.4	172	42.2	1	1	895	50.8	55.7
Exp201803	Cibus	Sulfonylurea	11.1	172	42.2	1	1	771	50.7	54.3
Mean			11.8	169.7	40.9	1	1	1014	50.9	54.7
CV%			12	0.2	4.8			9.9	0.7	2
LSD			2	0.6	2.8			144	0.5	1.6
P-Value			0.0354	<0.001	<0.001			<0.001	<0.001	0.0038

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

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, Central Agricultural Research Center, Moccasin, MT, 2018.

Irrigation (inches)	None
Tillage	No-till
Row Spacing (inches)	12
Seeding Date	26-Apr
Harvest Date	10-Aug
Harvest Type	Direct cut
Previous Crop	Spring Barley
Fertilizer	70 lb N/ac, 7 lb P ₂ O ₄ /ac, 6 lb K/ac, 25 lb SO ₄ /ac
Pesticide	Glyphosate pre-plant, 1.25 pt /ac; Stinger in-crop, 8 oz/ac
Pests	None
2018 Seasonal Precip (Apr thru Aug) in Inches	11.42
Avg. Seasonal Precip (Apr thru Aug) in Inches	10.2
Last Killing Frost in Spring (32°F)	2-May
First Killing Frost in Fall (32°F)	28-Aug
Frost-free Period (days)	118
Max Summer Temperature (°F)	103
Date of Max Summer Temperature	12-Aug
Soil Type	Judith and Danvers clay loam
Elevation (feet)	4250