

Table 1. MSU spring canola variety trial (dryland), Northern Agricultural Research Center, Havre, 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	5.8	168.5	45.8	1	1	1691	52.5	45.9
InVigor L140P	BASF	Liberty Link	4.8	168.5	46.8	1	1	1858	52.7	44.6
InVigor L233P	BASF	Liberty Link	5.5	167.2	40.5	1	1	1952	53	45.3
4187 RR	BrettYoung	Roundup Ready	5.8	170.5	43.5	1	1	1830	52.1	47.2
6074 RR	BrettYoung	Roundup Ready	5	169	47.8	1	1	1951	53.1	45.9
6090 RR	BrettYoung	Roundup Ready	4.3	171	52.8	1	1	1545	52	46.5
11H4030	Cargill	Roundup Ready	5.3	162.2	38	2	1	2147	52.5	45
HyCLASS 730	CROPLAN by WinField	Roundup Ready	5.5	163.8	38.5	1	1	2266	52.7	46.7
HyCLASS 930	CROPLAN by WinField	Roundup Ready	5.1	162.8	41.5	1	1	2193	52.2	47.6
HyCLASS 955	CROPLAN by WinField	Roundup Ready	6.3	163	41.2	1	1	2310	52.3	48.1
DKL 35-23	DEKALB	Roundup Ready	5.5	164.5	38.2	1	1	2076	52.5	43.1
DKL 70-10	DEKALB	Roundup Ready	4.9	165	43.5	1	1	2325	52.5	45.4
C5507	Cibus	Sulfonylurea	5.5	168.8	40.8	1	1	1786	52.1	46.7
Exp201801	Cibus	Sulfonylurea	5.7	169.2	45.8	1	1	1644	52.2	47.8
Exp201803	Cibus	Sulfonylurea	4.6	170.5	45.5	1	1	1306	52.5	46.1
Mean			5.3	167	43.3	1.1	1	1925	52.5	46.1
CV%			12.9	0.6	7.8			7.1	0.4	2.3
LSD			1	1.3	4.8			197	0.3	1.5
P-Value			0.0183	<0.001	<0.001			<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

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, Northern Agricultural Research Center, Havre, MT, 2018.

Irrigation (inches)	None
Tillage	No-till
Row Spacing (inches)	12
Seeding Date	1-May
Harvest Date	7-Aug
Harvest Type	Direct cut
Previous Crop	Spring Barley
Fertilizer	50-15-0-20
Pesticide	Sonalan 10G preplant, RT III preplant, Mustang Max in-crop
Pests	Early season flea beetle
2018 Seasonal Precip (Apr thru Aug) in Inches	4.02
Avg. Seasonal Precip (Apr thru Aug) in Inches	6.81
Last Killing Frost in Spring (32°F)	14-May
First Killing Frost in Fall (32°F)	28-Sep
Frost-free Period (days)	137
Max Summer Temperature (°F)	102.6
Date of Max Summer Temperature	2-Aug
Soil Type	Joplin Loam, Calcareous
Elevation (feet)	2708
Note(s)	new seeder, excellent emergence compared to years past