

2016 Canola Field Crop Trials Results



Minnesota Agricultural Experiment Station and the College of Food, Agricultural and Natural Resource Sciences

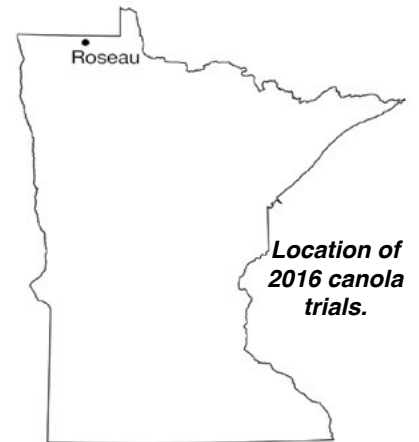
The 2016 Canola Production Center (CPC) was located 2 miles north and 3.5 miles west of Roseau Minnesota, just east of the University of Minnesota Magnusson Research Farm. Land and some tillage prior to plot seeding, was provided by Rice Farms. Previous crop was perennial ryegrass. A spring fertilizer rate of 140-40-40-20s was applied and incorporated prior to final seedbed preparation. Weather conditions during the growing season were wet. Early season excess moisture after emergence, caused crop stress and some variability. Conditions improved somewhat later in the season and seed yields were near but below long term averages.

The canola variety trial was seeded on May 18 with a Hege cone seeder with double disk openers. Seeding rate was 12PLS/ft. or 5# per acre if pure live seed (PLS) was unknown. Individual plots size were seeded on 6 ft. x 27 ft. centers. Experimental design was four replications in a randomized complete block design. Soil moisture was adequate at planting and all plots germinated uniformly. All plots were sprayed with Section 2 @ 5oz./acre on 6/8 for grass weed control. General weed control was done with an application of either Roundup PowerMax@ 16oz. to RR varieties, Draft@ .3oz. to SU varieties, Beyond@4oz. to CL varieties, or Liberty @22oz. to LL varieties. Application of these herbicides was on 6/22 at early stem elongation. Labeled adjuvants were

combined with all of the herbicides. Proline was applied on 7/6 for sclerotinia control. Plots were segregated by company listed maturity for management purposes with the early and unknown maturity varieties swathed on August 15 and medium and late entries swathed on August 17. Canola harvest dates were Sept.1 and 2 for the early and late varieties, respectively.

Project Leaders and Plot Managers

Dave Grafstrom, Donn Vellekson and Nancy Ehlke.



Submitting companies and contact information.

Contact	Phone	Email
Jordan Varberg	(701) 740-3324	jordan.varberg@bayer.com
Jameson Hall	(916) 542-5768	jhall@cibus.com
Greg Gingera	(306) 657-3385	ggingera@dow.com
Rene Mabon	(204) 261-7932	rene.mabon@brettyoung.ca
Paul Gregor	(218) 964-5168	psgregor@landolakes.com
Jeff Herrmann	(314) 694-2723	jeffrey.e.herrmann@monsanto.com
Alan Scott	(507) 317-1046	alan.scott@pioneer.com
Jory Schlink	(218) 230-6230	jschlink@wilburellis.com
Jim Johnson	(701) 361-8958	jimj_star@hotmail.com
Keith Peltier	(701) 324-4177	proseed@gondtc.com
Ross Hakes	(218) 643-2410	ross.hakes@us.nuseed.com

2016 Spring Canola Variety Trial

Rice Farms- 2 mi. north and 3.5mi. West of Roseau, Minn.

University of Minnesota

Company	Herbicide tolerance	Entry	Seeding * Rate (#/ac)	Yield ¹				% ground cover ³	Test WT #/bu.	Lodging ⁵	Height, inches	Flowering				
				#/acre	% of mean	% protein	% oil ²					begin day	end day	# of days		
1 Bayer CropScience	LL	InVigor 5440	5.8	2310	108	19.0	50.0	63	5.5	52	2	45	7/2	7/21	19	
2 Bayer CropScience	LL	InVigor L252	5.5	2289	107	19.0	51.7	64	5	53	2	47	7/2	7/20	18	
3 Bayer CropScience	LL	InVigor L140P	4.9	2242	104	20.0	48.7	64	5.5	51	2	44	6/30	7/19	20	
4 Bayer CropScience	LL	InVigor L130	5.2	2113	98	21.0	48.9	74	6.5	52	2	43	7/2	7/20	22	
5 Mycogen	CL	2020CL	6.3	2071	96	20.0	51.6	63	3.5	52	3	45	7/2	7/22	20	
6 Mycogen	CL	2022CL	8.3	2006	93	22.0	50.1	48	5.5	52	2	43	7/3	7/21	18	
7 Cibus	SU	C5522	5.4	2114	98	21.0	48.7	78	6	51	2	42	7/1	7/23	22	
8 Cibus	SU	C1511	6.3	2079	97	22.0	47.9	63	5.5	52	2	45	6/30	7/25	26	
9 Cibus	SU	C1516	5.9	2060	96	23.0	47.8	68	6.5	53	2	45	7/1	7/24	23	
10 Cibus	SU	C5507	4.5	2014	94	21.0	48.8	63	5.5	51	3	44	6/30	7/22	23	
11 Cibus	SU	C5513	4.7	1769	82	22.0	47.1	70	5.5	53	2	45	7/1	7/27	26	
12 BrettYoung	RR	6080 RR	5.1	2356	110	20.0	50.6	65	4	52	2	39	6/29	7/21	23	
13 BrettYoung	RR	6074 RR	4.8	2109	98	18.0	50.4	48	3.5	52	2	42	6/30	7/24	25	
14 BrettYoung	RR	BY16-768	4.9	2020	94	20.0	49.9	65	4	51	3	36	6/30	7/20	21	
15 BrettYoung	RR	BY15-754	4.9	1709	80	20.0	50.4	48	3.5	50	3	38	7/1	7/20	19	
16 CROPLAN	RR	HyClass 930	5.7	2453	114	18.0	53.9	60	4.5	52	4	36	6/28	7/19	22	
17 CROPLAN	RR	HyClass 955	5.2	2391	111	18.0	53.5	68	5.5	52	4	38	6/28	7/20	23	
18 CROPLAN	RR	HyClass 972	5.1	2390	111	19.0	52.0	58	5	52	1	40	6/29	7/20	22	
19 CROPLAN	RR	HyClass 970	6.0	2291	107	19.0	52.8	53	4.5	52	2	37	6/29	7/21	23	
20 DuPont Pioneer	RR	45H33	5.7	2488	116	19.0	51.1	74	6.5	50	3	45	6/29	7/21	23	
21 DuPont Pioneer	RR	46M34	5.5	1925	90	19.0	52.4	48	4	52	4	39	6/29	7/20	22	
22 Integra Seed/Wilbur Ellis	RR	7257R	4.6	2316	108	20.0	51.2	50	4	52	5	39	6/29	7/19	21	
23 Integra Seed/Wilbur Ellis	RR	7150	4.1	2035	95	18.0	53.2	45	4	51	5	37	6/29	7/20	22	
24 Monsanto	RR	G35153	7.4	2479	115	20.0	52.1	58	4.5	52	4	37	6/28	7/20	23	
25 Monsanto	RR	G49720	6.0	2295	107	20.0	51.2	58	4.5	52	5	37	6/28	7/19	22	
26 Monsanto	RR	DKL38-48	5.4	2220	103	19.0	51.4	66	6.5	53	4	38	6/28	7/19	22	
27 Monsanto	RR	DKL70-10	5.2	2191	102	19.0	51.1	45	3.5	52	4	37	6/30	7/20	21	
28 Monsanto	RR	G49733	4.9	2182	102	18.0	52.9	45	3	52	5	34	6/29	7/19	21	
29 Monsanto	RR	DKL71-14BL	4.7	2178	101	17.0	53.5	63	4.5	52	4	36	6/29	7/19	21	
30 Monsanto	RR	DKL70-50CR	7.8	2071	96	18.0	52.3	60	5.5	52	4	38	6/28	7/20	23	
31 Monsanto	RR	DKL70-07	5.8	1869	87	18.0	53.1	66	5	52	3	35	6/28	7/19	22	
32 Mycogen	RR	1020RR	5.1	1982	92	19.0	50.4	60	5	50	3	40	7/2	7/22	20	
33 Mycogen	RR	1022RR	5.6	1800	84	19.0	51.0	53	4	51	1	41	7/2	7/24	22	
34 Nuseed	RR	GT50	7.3	1807	84	21.0	47.8	79	6	52	4	36	6/28	7/20	23	
35 Nuseed	RR	NCH13G046	7.2	1781	83	20.0	47.7	64	5.5	53	5	37	6/28	7/20	23	
36 Proseed	RR	300 Magnum	4.9	2422	113	19.0	52.6	65	5	52	4	39	6/29	7/21	23	
37 Star Specialty Seed	RR	Star 402	5.1	2623	122	18.0	54.3	63	5	52	4	42	6/29	7/20	22	
LSD @ 5% Level				295	13	1.0	1.0	14	1.5	1	1	3	2.3	1.5		
CV(%)				9.8	9.8	3.5	1.4	17	22	0.5	33	5.6	5.5	5.1		

*LL=Liberty Link, CL= Clearfield, RR=Roundup Ready and SU=Sulfonated Urea

**Seeding rate=12PLS/Ft.2

¹Yields corrected to 8.5% moisture

Mean trial yield =2147#/acre

²All quality on dry matter basis³% ground cover June 15⁴ESV(early season vigor)-June 15—9= best;1=least⁵Lodging-1=Upright; 9=Flat