

2015 Canola Field Crop Trials Results



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

The 2015 Canola Production Center (CPC) was located 2 miles west and 2 miles north of Roseau, MN. Magnusson Farms provided land and primary tillage for the research plots. Previous

crop was spring wheat. A spring fertilizer rate of 150-40-40-20s was applied and incorporated prior to final seedbed preparation. Climate conditions during the growing season were generally wet

but favorable for canola production with slightly above average yields.

The canola variety trial was seeded on May 23 with a Hege small plot seeder with double disk openers. Seeding

Canola Entry/Systems trial at Roseau 2015.

Company	Herbicide ¹ Tolerance	Entry	Yield, ²		% protein	% ground cover ³	ESV ⁴	Height, inches	Flowering		
			% of mean	% oil ²					Begin day	End day	Days
Winfield Solutions	RR	HyClass 930	105	51.4	22.0	86	8.8	47	7/1	7/20	20
Winfield Solutions	RR	HyClass 955	99	50.0	22.0	80	8.3	44	7/3	7/20	17
Winfield Solutions	RR	HyClass 970	117	48.8	22.0	86	8.3	48	7/3	7/22	19
Winfield Solutions	RR	HyClass 972	105	48.7	25.0	88	8.5	44	7/2	7/24	22
Monsanto	RR	DLK38-48RR	84	49.3	22.0	79	8	45	7/1	7/22	21
Monsanto	RR	DKL70-07RR	94	50.5	23.0	75	7.8	47	7/3	7/22	19
Monsanto	RR	DLK70-10RR	96	47.4	24.0	79	8.3	46	7/6	7/22	16
Monsanto	RR	DLK70-50CR	92	48.9	22.0	80	8.3	47	7/3	7/22	19
Monsanto	RR	74-44BL	110	50.0	21.0	78	7.8	46	7/3	7/23	20
Monsanto	RR	G28101	100	50.8	21.0	79	7.8	46	7/7	7/22	15
Monsanto	RR	G32176	82	48.9	23.0	76	7.3	47	7/4	7/23	19
Star Specialty Seed	RR	Star 402	101	52.5	20.0	83	8	43	7/2	7/22	20
Proseed	RR	300 Magnum	90	49.3	23.0	83	8.8	44	7/3	7/23	20
Proseed	RR	PS 5000	88	46.8	22.0	84	8.5	47	7/8	7/27	19
BrettYoung	RR	6074 RR	104	48.3	21.0	74	7.3	48	7/8	7/28	20
BrettYoung	RR	BY15-975	102	47.9	21.0	74	7.3	47	7/5	7/24	19
BrettYoung	RR	6064RR	103	48.9	22.0	75	7.8	49	7/7	7/26	21
Mycogen	RR	Nexera 1012 RR	80	46.5	25.0	86	8.3	56	7/8	7/29	21
Mycogen	RR	Nexera 1020 RR	94	47.5	24.0	85	8.8	48	7/6	7/28	22
Mycogen	RR	Nexera 1022 RR	101	48.5	25.0	84	8.5	51	7/9	7/27	18
Mycogen	CL	Nexera 2020CL	107	46.8	27.0	83	8.5	53	7/7	7/25	18
Mycogen	CL	CL2562968H	98	45.9	28.0	80	8.3	54	7/6	7/26	20
Mycogen	CL	CL2562966H	114	47.2	26.0	85	8.3	57	7/6	7/25	19
Bayer CropScience	LL	InVigor L130	100	45.6	25.0	84	8.3	55	7/7	7/26	19
Bayer CropScience	LL	InVigor L140p	105	45.0	24.0	83	8.3	55	7/6	7/25	19
Bayer CropScience	LL	InVigor L252	123	48.2	23.0	85	8.8	53	7/9	7/26	17
Bayer CropScience	LL	InVigor 5440	109	45.7	25.0	81	8.3	57	7/8	7/28	20
LSD @ 5% Level			13.3	1.4	1.6	10	1.2	1.8	1.3	1.3	
CV(%)			9.5	2	5	9	10	3	20	4	

¹LL=Liberty Link, CL= Clearfield, and RR=Roundup Ready.

²Clean seed yields corrected to 8.5% moisture. Mean yield = 2,620 lb/acre.

³Visual estimate — % ground cover 6/18/2015.

⁴ESV (early season vigor) — June 18 — 9 = best; 1 = least.

rate was 13PLS/ft. or 5# per acre if pure live seed (PLS) was unknown. Individual plot size was 5 ft. x 27 ft. Experimental design was four replications in a randomized complete block design. Soil moisture was adequate at planting to achieve uniform germination. Weeds were controlled with an application of Beyond to Clearfield varieties on 6/13 and Liberty or Roundup PowerMax on 6/16 to appropriate varieties. Priaxor was applied at 50% flowering for sclerotinia control. Plots

were segregated by company listed maturity for management purposes with the early and unknown maturity varieties swathed on August 21 and medium and late entries swathed on August 25. Canola harvest dates were Sept. 9 and 16 for the early and late varieties, respectively.

Project Leaders and Plot Managers

Dave Grafstrom, Donn Vellekson, and Nancy Ehlke.

