

**2003 Conventional Canola Variety Trial - Continuously Cropped - No-till Hettinger, North Dakota**

Brand	Variety	Type*	Days to Bloom	Duration of Flowering	Days to Mature	Plant Height	Lodging	Oil Content	Yield
				days		inches	0 - 9**	%	lbs/a c
Brett Young	6045CL	op, cl	64	18	99	41	1.8	41.9	940
Croplan Gen.	Hudson	op	65	18	98	38	1.2	39.4	1013
Croplan Gen.	KAB36	op, cl	66	15	99	41	1.8	41.7	1173
Interstate	D1034CL	H, cl	64	17	98	40	2.2	39.2	1260
Interstate	Hyola 401	H	62	18	99	36	1.0	40.0	1767
RR check	DKL 34-55	op, RR	68	18	102	42	1.0	41.4	1480
RR check	Hyola 357 mag	H, RR	63	18	100	39	1.2	39.6	1893
Trial Mean			65	17	99	39	1.5	40.5	1361
C.V. %			0.6	3.4	0.8	5.5	38.2	1.1	14.0
LSD .05			1	1	1	3	0.8	0.7	283
LSD .01			1	1	2	4	NS	0.9	388

\*Type: H = Hybrid, op = Open Pollinated, cl = Clearfield, RR = Roundup Ready.

\*\*Lodging: 0 = none, 9 = lying flat on ground.

Planting date: April 7, 2003 Harvest date: July 23, 2003 Previous crop: Barley

Notes: The trial sustained moderate heat and moisture stress. Oil content is adjusted to 8.5% moisture.

2003 Roundup Ready Canola - Continuously Cropped - No-till

Hettinger, North Dakota

Brand	Variety	Type*	Days to Bloom	Duration of Flowering	Days to Mature	Plant Height	Lodging	Oil Content	Yield
				days		inches	0 - 9**	%	lbs/ac
Brett Young	LBD 588RR	OP	66	18	99	40	1	41.92	1413
Croplan Gen.	Crosby	OP	67	18	100	42	2	40.31	1556
	HyCLASS 2061	H	68	17	99	41	1	41.62	1627
	HyCLASS 767SW	Syn	67	17	99	42	2	40.29	1502
	HyCLASS 905	H	69	17	102	44	1	41.51	1538
	HyCLASS 910	H	69	16	100	46	1	40.78	1618
	Minot	OP	66	16	98	40	2	42.37	1467
Dekalb	DKL223	H	63	19	98	38	3	40.60	1556
	DKL34-55	OP	68	17	100	41	1	42.38	1396
Interstate	Hyola 357 mag	H	64	18	99	36	1	40.17	1600
	SWP9883944RR	H	68	17	100	40	1	40.62	1325
	ExCalibuRR	OP	64	19	100	38	2	41.50	1360
	SW GladiatoR	Syn	64	19	98	38	2	41.52	1458
	HyLite 225 RR	OP	65	19	98	38	1	41.83	1449
	Hyola 505 RR	H	69	17	100	43	1	41.00	1316
	Hyola 512 RR	H	68	17	99	43	1	41.10	1325
	Hyola 514 RR	H	70	16	102	43	2	40.12	1342
	PAC Seed RR	H	64	18	99	41	1	40.78	1493
	SW F5189 RR	H	66	17	97	41	2	41.20	1440
	SW F5191 RR	H	66	18	98	41	2	40.86	1440
	SW F5229 RR	H	66	18	99	41	2	41.99	1582
Proseed	RR 2013	H	68	17	101	43	1	41.64	1351
	RR 2066	H	67	17	98	44	2	41.73	1538
	Razor	Syn	66	18	99	38	2	40.38	1209
	Roughrider	OP	68	16	100	41	2	44.64	1085
Seeds 2000	SW BadgeRR	Syn	68	18	99	38	1	41.19	862
Trial Mean			67	18	99	41	1	41.27	1417
C.V. %			1.0	4.5	0.7	5.2	29.0	1.2	9.7
LSD .05			1	1	1	3	1	0.70	194
LSD .01			1	1	1	4	1	0.93	257

\*Type: H = Hybrid, OP = Open Pollinated, Syn = Synthetic. \*\*Lodging: 0 = none, 9 = lying flat on ground.

Planting date: April 7, 2003 Harvest date: July 23, 2003 Previous crop: Barley

Notes: The trial sustained moderate heat and moisture stress. Oil content is adjusted to 8.5% moisture.

**2003 Split Applications with Various Nitrogen Fertilizers on Canola - No-till Hettinger**

Pounds / acre N*	POST N fert. Form*	POST N fert injury %	Days to 10% Bloom days	Duration of Bloom days	Days to Mature days	Plant Height inches	Oil Content %	Yield lbs/acre
Pre Plant	4-5 leaf							
130	0	0	63	20	100	32	41.5	1280
85	45	urea	0	63	20	100	41.4	1400
85	45	AN	0	63	20	100	40.9	1173
85	45	UAN	0	63	20	101	40.6	1240
40	90	urea	0	64	20	100	41.0	1120
40	90	AN	0	64	20	101	41.0	1100
40	90	UAN	0	64	20	102	40.1	1107
Trial Mean			0	64	20	101	40.9	1203
C.V. %			0	1.2	5.0	0.9	5.6	8.4
LSD .05			NS	NS	NS	NS	0.8	150
LSD .01			NS	NS	NS	NS	1.0	205

\* Pounds per acre actual N (residual soil N 0-24" + fertilizer N). Residual soil N = 30 lbs/acre.

Pre-plant fert. = Urea.

\*\* POST applied fert. = urea (46-0-0), AN = ammonium nitrate (34-0-0), UAN = 28% liquid N applied on May 29.

Rainfall after post applied N: 0.72" on May 31 - June 3.

Planting Date: April 8, 2003

Variety = Hyola 357 mag.

Harvest Date: August 1, 2003

Previous Crop: sunflower

There was no lodging or plant diseases.

NS = no statistical difference between seeding rates.