

Swathing Compared to Direct Harvest of Canola in 2017
Tony Brateng Cooperator
Yields in Pounds/A

<u>Strip</u>	<u>Direct</u>	<u>Swathed (standard)</u>	<u>Difference vs Standard</u>
1	2,734	2,606	+128
2	2,552	2,330	+222
3	2,584	2,670	-86
4	2,435	2,468	-33
Total #'s	10,305	10,074	231
Average	2,576	2,519	+57

Entire canola field was seeded with an air seeder, 7.5 inch rows @ 5#/A.

Tony indicated the field average was 2,600#/A.

Swath width was 21 feet and direct harvest was 35 feet.

Direct harvested area was 1.54 acres and swath was 0.94 acres.

Each strip was weighted separately (grain cart with scale) and a sub-sample taken for quality analysis. Canola quality analysis will be determined at a lab in St. Paul.

Conventional Compared to Precision Planting of Canola in 2017
Tony Brateng Cooperator
Yields in Pounds/strip (0.49A)

<u>Rep</u>	<u>Precision</u>	<u>Conventional</u>	<u>Difference vs Conventional</u>
1	1,240	1,140	+100
2	1,260	1,110	+150
3	1,220	1,080	+140
4	1,200	1,020	+180
Total #'s	4,920	4,350	+570
Average	1,230	1,088	+142
Yield/A	2,510	2,220	+290

Precision planting was in 22 inch rows @ 2.7 #/A. Conventional planting was with an air seeder with 7.5 inch rows @ 5#/A.

Tony indicated the field average was 2,500#/A.

All plots were direct harvested with a combine header width of 35 feet.

Harvested area in each strip was 0.49 acres.

Each strip was weighted separately (grain cart with scale) and a sub-sample taken for quality analysis. Canola quality analysis will be determined at a lab in St. Paul.

2017 Spring Canola Variety Trial
Northern Resources-West Plant Roseau,Mn
University of Minnesota

Company	Variety	Herbicide tolerance	Seeding Rate(#/ac.)	Yield ¹	
				#/acre	% of mean
1 BrettYoung	5545 CL	CL	6.0	3951	126
2 Mycogen	Nexera 2022CL	CL	6.7	3226	103
3 Cibus	C5507	SU	4.2	2518	80
4 Cibus	C5522	SU	4.6	2564	82
5 Cibus	C5513	SU	3.5	2500	80
6 CROPLAN	HyClass 930	RR	5.5	3077	98
7 CROPLAN	HyClass 955	RR	5.3	3369	107
8 CROPLAN	HyClass 970	RR	6.0	3595	115
9 Dekalb-Monsanto	DKL70-10	RR	6.3	3343	107
10 Dekalb-Monsanto	G15P9374	RR	5.0	3261	104
11 Dekalb-Monsanto	DKL35-23	RR	6.4	3464	110
12 Dekalb-Monsanto	DKL71-14BL	RR	5.5	3341	106
13 DuPont Pioneer	45CS40	RR	5.0	3623	115
14 DuPont Pioneer	45M35	RR	5.0	3453	110
15 Integra Seed/Wilbur Ellis	7257	RR	4.7	3232	103
17 Proseed	300 Magnum	RR	5.0	3362	107
18 Proseed	PS 5000	RR	5.0	3298	105
19 BrettYoung	6074 RR	RR	5.2	3628	116
20 Bayer CropScience	InVigor L233P	LL	5.3	3220	103
21 Bayer CropScience	InVigor L140P	LL	5.2	3164	101
22 Bayer CropScience	InVigor L252	LL	5.6	3261	104
23 Bayer CropScience	InVigor L230	LL	5.5	3391	108
24	Shatter check		5.0	3499	112
LSD @5% Level				318	10
CV				6.8	

Experimental Design: RCB w/4reps

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

**Seeding rate=12PLS/Ft.²

¹ Yields corrected to 8.5% moisture

Mean trial yield =3139#/acre

Herbicide Treatments:	Herbicide tolerance	Date of Application
Draft- .3oz. + .5% NIS	SU	6/15/2017
Beyond- 4oz.+ .25%NIS+2.5%AMS	CL	6/15/2017
Liberty-- 22oz.+ 2.5%AMS	LL	6/12/2017
Roundup PowerMax 16oz.+2.5%AMS	RR	6/12/2017
Section 3 + 1%COG	all plots	6/7/2017