



2015 Texas Canola Variety Trial Results

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2015 Texas Uniform Canola Variety Trials

<http://varietytesting.tamu.edu/oilseed>

Texas A&M AgriLife Extension Service

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Additional Canola Resources

National Winter Canola Winter Canola Variety Trials
<http://www.agronomy.k-state.edu/services/crop-performance-tests/canola-and-cotton.html>

Okanola (Oklahoma State University Canola Extension)
<http://canola.okstate.edu/>

Great Plains Canola Production Handbook
<http://varietytesting.tamu.edu/oilseed/files/Production%20Practices/Great%20Plains%20Canola%20Production%20Handbook.pdf> (electronic)
<http://www.bookstore.ksre.ksu.edu/Category.aspx?id=2> (order hard copy)

Other Texas A&M AgriLife Canola Agronomic Information
<http://varietytesting.tamu.edu/oilseed>

Introduction

The word “canola” is derived from its origins in Canada and the Latin word for oil (*oleum*). Canola is a cool-season broadleaf plant in the mustard family. Its cousins include turnips and rapeseed, but canola has much lower erucic acid and glucosinolate content which makes its oil less bitter than other mustard plants as well as having a higher digestibility for humans and other animals. Canola’s oil is utilized in numerous food products as well as cooking because canola oil has less saturated fat than other plant and animal derived cooking oils. In the mid 1990’s canola breeders in Canada released the first herbicide tolerant varieties allowing this crop to be a great rotational crop in fields that had consistent weed problems. Most of the acres of canola today utilize glyphosate or other types of herbicide tolerance. North of Nebraska, canola is grown as a short season summer crop, but throughout the southern Great Plains (Oklahoma, Texas, etc.) canola can be grown in the winter months as a rotational replacement for small grains. Due to the taproot system in canola this crop is capable of chasing moisture and nutrients deeper in the soil profile than many small grain crops. In addition, it allows for alternative herbicides to be applied aiding in control of winter weeds.

Canola in Texas is still a very new crop to this state. Its acreage has been concentrated along the Oklahoma border for many years. Transportation costs to the nearest crushing facility in Oklahoma City has been the primary reason why acres have not been promoted very far south, but with the closing of this plant and the recent crushing facility implemented near Lubbock, greater interest has been added further south in the state. As with any new crop, there are always challenges to overcome. The challenges with canola are primarily due to its small seed size (1/8” diameter), so seedbed preparation is crucial as well as sealing cracks and holes in both harvesting and transportation equipment. Seed shattering at harvest time has also been a concern for many producers throughout the southern Great Plains; therefore, harvest timing is crucial and in many cases the use of harvest aids or swathing is critical.

The data presented in the following pages is a collaborative effort among several Texas A&M AgriLife Extension Service and KSU faculty and staff. We appreciate the cooperation from numerous Texas A&M AgriLife County Extension Agents, producers, and private industry groups that contribute time, property, and seed to conduct these field trials. The purpose of this publication is to provide unbiased yield and phenotypic data for canola producers across the state. Using this information, Texas canola producers can make an educated decision concerning the most appropriate varieties for their geographic region.

Interpreting the Data

Yield, test weight and several other harvest measurements at each location have been analyzed using appropriate statistical procedures. The statistical analysis provides the mean, CV, and LSD

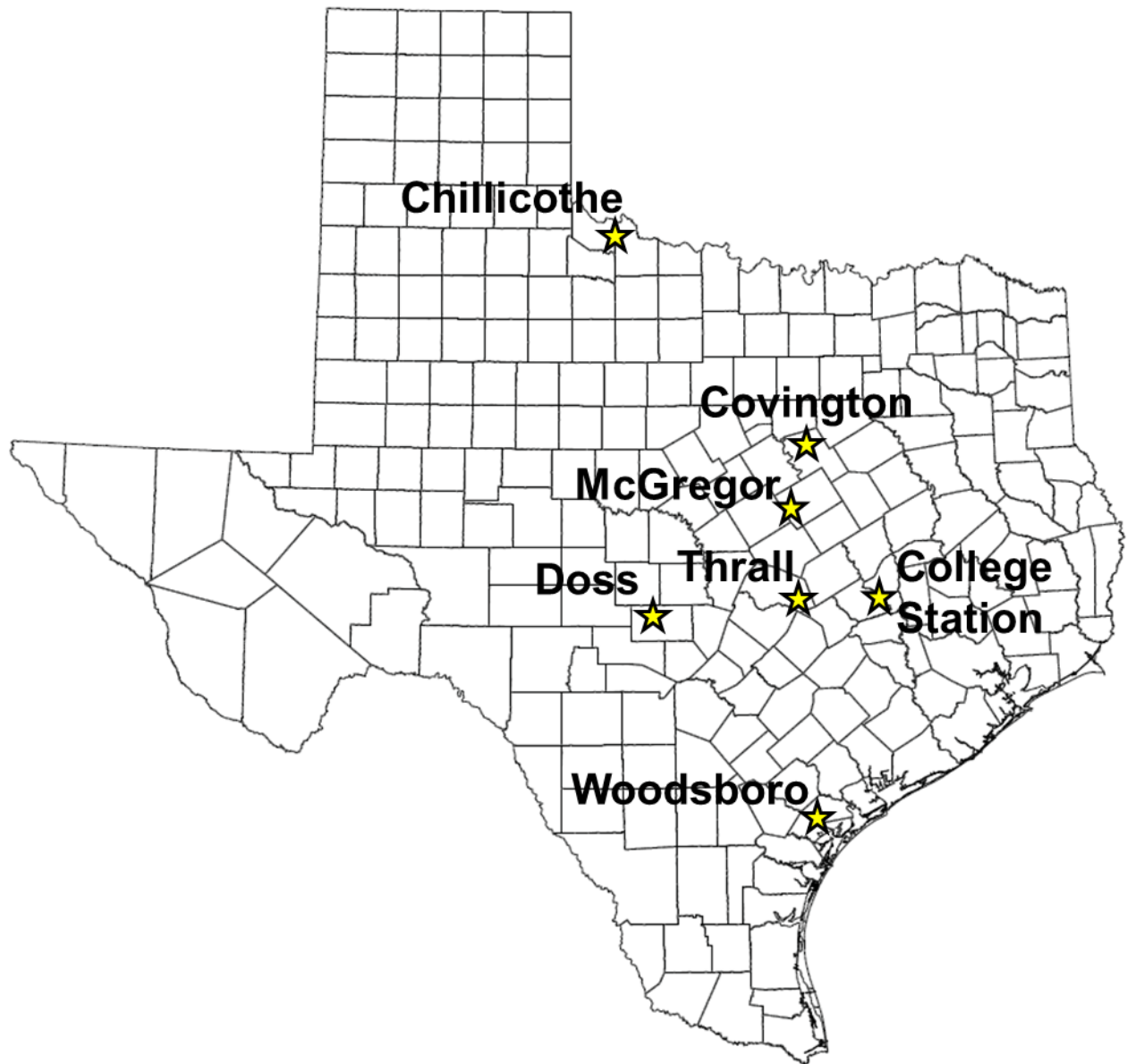
values. It is important to note these statistical values to prevent misinterpretation of any replicated data.

The mean is another term for the average. Therefore, a mean yield is the average of all plots within a trial. Individual variety yields can be compared to the mean yield to determine how these varieties performed within the trial (i.e. were they above or below average?). This average can also be used as an indication of the environment for that location. A low mean yield can indicate poor growing conditions were experienced in that season; likewise, a high yield average can indicate favorable growing conditions.

The CV (Coefficient of Variation) value, expressed as a percentage, indicates the level of unexplained variability present within the trial. A high CV value indicates a lot of variability existed within the trial not related to normal variations that might be expected between the varieties in the test. This variability may be the result of non-uniform stands, non-uniform insect or disease pressure, variability in harvesting, or other issues. CV values in excess of 20% signify that there were problems in the trial, leading the reader to question the validity of the data as a true representation of varietal performance.

The LSD (Least Significant Difference) value is a numeric range to help the reader determine if the varieties performed differently from one another within the trial. If the LSD value is 50 lb/ac in a trial in which Variety A yielded 1500 lb/a and Variety B yielded 1440 lb/ac, then Variety A is said to be significantly better. In that same trial with an LSD value of 50 lb/ac at a 0.05 (5%) significance level, the statistical inference one could say is that Variety A would yield better than Variety B in 19 out of 20 trials conducted in which there was at least a 50 pound difference in yield. In this hypothetical comparison, you might have a 20th trial with a 50 lb/ac difference in which there is not truly a statistical difference between Variety A and B, but random chance caused the 50 pound difference.

2015 Texas Canola Variety Trial Locations



Season Summary

The 2014-15 growing season was most markedly noted for its rainfall. Moisture was plentiful in the fall allowing for good planting conditions and facilitating excellent stands. Moisture continued to be abundant throughout the winter months, but not overwhelming. However, excessive rainfall dominated much of the state beginning in April and lasting through June. Despite high yield potential for many of the trial locations, wet field conditions made it very difficult to harvest plots on time, leading to shattering of some varieties and reduced yields. With the exception of Doss, most locations experienced light aphid pressure this year, contrary to 2014, and only required a single spring insecticide application. Heavy rains likely washed away aphid populations before they could increase to damaging levels. Similar to 2014, disease pressure was light except for mildew due to abundant moisture. Temperatures were near or slightly below normal for most of the growing season. A hard freeze in early March impacted spring canola plots flowering in College Station, but did not impact later maturing winter canola varieties.

Location	Cooperator	Issues	Planted	Harvested	Fertility	Herbicides
Chillicothe	Texas A&M AgriLife Research Station	Destroyed by extreme weather event May 8	9/23/14	ABANDONED	30# N/A 12# S/A	Prevathon (14 oz/a) Karate (4 oz/a)
College Station	Texas A&M AgriLife Extension Farm	Wet field conditions at harvest, shatter	10/16/14 (wint.) 10/31/14 (spr.)	05/20/15 (wint.) 05/01/15 (spr.)	10# Zn/A 80# N/A 25# S/A 5# Mn/A	Treflan (2 pt/a) Ignite (34 oz/a)
Covington	Albert Sulak Brian Sulak	Hail, wet field conditions, shatter, lodging	10/21/14	ABANDONED	100# N/A 15# S/A	Roundup
Doss	Adam Geistweidt Mark Geistweidt	Aphids, dry winter, henbit, downy brome	10/22/14	ABANDONED	60# N/A	Stinger (½ pt/A) Poast (2.5 pt/A)
McGregor	Jason Niemeier	Wet field conditions at harvest, shatter	10/21/14	06/02/15	--	Roundup
Thrall	Stiles Farm Foundation	Wet field conditions, shatter, lodging	10/22/14	05/28/15	80# N/A 25# S/A	None
Woodsboro	Walt Franke	Wet field conditions at harvest, shatter	01/07/15	ABANDONED	--	--

2015 Winter Canola Variety Characteristics

Variety	Developer/ Marketer	Type†	Traits‡	Released	Maturity§
46W94	Pioneer	Hybrid	RR	2011	M
46W99	Pioneer	Hybrid	RR	2011	M
Croplan 14-05W	Croplan by Winfield	Hybrid	RR	---	---
Croplan 15-19W	Croplan by Winfield	---	---	---	---
Croplan 15-20W	Croplan by Winfield	---	---	---	---
Dimension	Rubisco Seeds	Hybrid	---	2008	E
DK Imiron CL	Monsanto / DeKalb	Hybrid	SD/CL	---	F
DK Imistar CL	Monsanto / DeKalb	Hybrid	SD/CL	---	---
DK Severnyl	Monsanto / DeKalb	Hybrid	SD	---	---
DKW41-10	Monsanto / DeKalb	OP	RR	2008	E
DKW44-10	Monsanto / DeKalb	OP	RR	2009	M
DKW45-25	Monsanto / DeKalb	OP	RR/SURT	2013	M
DKW46-15	Monsanto / DeKalb	OP	RR/SURT	2008	M
DKW47-15	Monsanto / DeKalb	OP	RR/SURT	2008	M
DL14001RR	DL Seeds Inc.	Hybrid	RR	---	---
Edimax CL	Rubisco Seeds	Hybrid	CL	2012	M
Einstein	DL Seeds Inc.	Hybrid	---	---	---
Garou	DL Seeds Inc.	Hybrid	---	---	M
Hekip	Momont, France	Hybrid	---	2014	E
Hornet	Rubisco Seeds	Hybrid	---	2008	M
HyCLASS 115W	Croplan by Winfield	OP	RR/SURT	2008	E
Inspiration	Rubisco Seeds	Hybrid	---	2014	M
Mercedes	Rubisco Seeds	Hybrid	---	2014	M
Popular	DL Seeds Inc.	Hybrid	---	---	E
Raffiness	DL Seeds Inc.	Hybrid	---	---	M
Safran	Rubisco Seeds	Hybrid	---	2008	M
Sitro	Rubisco Seeds	Hybrid	---	2007	E
Star 915W	Star Specialty Seed Inc.	OP	RR/SURT	2014	M
Sumner	Kansas State University	OP	SU	2003	E
SY Fighter	Syngenta	Hybrid	---	---	---
SY Harnas	Syngenta	Hybrid	---	---	---
SY Marten	Syngenta	Hybrid	---	---	M
SY Saveo	Syngenta	Hybrid	---	---	M
Virginia	Virginia State University	OP	---	2003	M
Visby	Rubisco Seeds	Hybrid	---	2008	E
VSX-3	Virginia State University	OP	---	---	M
Wichita	Kansas State University	OP	---	1999	M

†OP: Open Pollinated

‡CL: Clearfield; RR: Roundup Ready; SD: semi-dwarf; SU & SURT: sulfonylurea carryover tolerant

§Maturity rated at early (E), Medium (M), and Full (F).

2015 Spring Canola Variety Characteristics

Variety	Developer/ Marketer	Type†	Traits‡	Released	Maturity
45H29	Pioneer	Hybrid	RR	---	M
45H31	Pioneer	Hybrid	RR	---	M
46H75	Pioneer	Hybrid	CL	---	M
CCSC100	---	---	---	---	---
DKL 30-03	Monsanto / DeKalb	Hybrid	RR	---	M
DKL 30-42	Monsanto / DeKalb	Hybrid	RR	---	M
DKL 38-48	Monsanto / DeKalb	Hybrid	RR	---	M-F
DKL 55-55	Monsanto / DeKalb	Hybrid	RR	---	M
DKL 70-07	Monsanto / DeKalb	Hybrid	RR	---	M
DKL 74-54	Monsanto / DeKalb	Hybrid	RR	---	M
HyCLASS 930	Croplan by Winfield	Hybrid	RR	---	M
HyCLASS 955	Croplan by Winfield	Hybrid	RR	---	M
InVigor L130	Bayer	Hybrid	LL	---	M
InVigor L140P	Bayer	Hybrid	LL/ST	---	M
InVigor L160S	Bayer	Hybrid	LL	---	F
InVigor L252	Bayer	Hybrid	LL	---	M-F
InVigor 5440	Bayer	Hybrid	LL	---	F
RUB 5525 CL	Rubisco Seeds	Hybrid	CL	---	---
V12-1	Cargill	Hybrid	RR/HO	---	---
V12-2	Cargill	---	---	2015	---

†OP: Open Pollinated

‡CL: Clearfield; HO: high oleic oil; LL: Liberty Link; RR: Roundup Ready; SD: semi-dwarf; ST: shatter tolerant; SU & SURT: sulfonylurea carryover tolerant

§Maturity rated at early (E), Medium (M), and Full (F).

2015 National winter canola variety trial located in Chillicothe, TX.

Rank	Variety	Source	Yield (lb/a)	Winter Survival (%)	Fall† Stand (0-10)	50% Bloom (DOY)	Test Weight (lb/bu)
1	DKW 46-15	Monsanto / DeKalb	---	91.7	8.7	100	---
2	Wichita	Kansas State University	---	90.0	6.3	107	---
3	DKW 41-10	Monsanto / DeKalb	---	90.0	6.3	99	---
4	DKW 44-10	Monsanto / DeKalb	---	90.0	8.3	103	---
5	SY Saveo	Syngenta	---	88.3	7.3	107	---
6	HYCLASS 125W	Croplan by WinField	---	86.7	8.3	100	---
7	DKW 47-15	Monsanto / DeKalb	---	83.3	8.7	107	---
8	HYCLASS 115W	Croplan by WinField	---	83.3	7.3	99	---
9	Hornet	Rubisco Seeds	---	81.7	8.0	100	---
10	NK Technic	Syngenta	---	81.7	7.3	100	---
11	NK Petrol	Syngenta	---	76.7	8.3	108	---
12	DK Imiron CL	Monsanto / DeKalb	---	73.3	8.0	108	---
13	DK Sensei	Monsanto / DeKalb	---	73.3	9.0	109	---
14	46W99	DuPont Pioneer	---	68.3	6.3	110	---
15	DK Exstorm	Monsanto / DeKalb	---	66.7	7.0	112	---
16	Artoga	Limagrain	---	65.0	7.0	107	---
17	Inspiration	Rubisco Seeds	---	58.3	7.7	100	---
18	Dimension	Rubisco Seeds	---	56.7	8.0	108	---
19	Alabaster	Limagrain	---	51.7	6.3	112	---
20	46W94	DuPont Pioneer	---	50.0	6.0	112	---
21	Albatros	Limagrain	---	48.3	4.0	112	---
22	Edimax CL	Rubisco Seeds	---	46.7	7.0	112	---
23	SY Marten	Syngenta	---	46.7	8.3	112	---
24	Chrome	Momont, France	---	30.0	7.3	---	---
Mean			---	70	7.4	106	---
LSD (0.10)			---	32	NS	5	---
CV			---	32.9	20.4	3.0	---

†Rating with 0-10 scale, where 10 equals excellent.

2015 National winter canola variety trial Blacklands regional yield summary.

Rank	Variety	Company	2015 Yield (lb/a)			2015 Test Wt (lb/bu)	
			Average	College Station	Thrall		McGregor
1	Hornet	Rubisco Seeds	1433	1334	1304	1660	47
2	Inspiration	Rubisco Seeds	1422	1268	1173	1826	46
3	Edimax CL	Rubisco Seeds	1337	990	1179	1842	47
4	Garou	DL Seeds	1145	1289	843	1304	44
5	46W94	DuPont Pioneer	1076	1401	797	1031	48
6	Visby	Rubisco Seeds	1059	1148	817	1212	41
7	DL_14001RR	Monsanto / DeKalb	1027	1062	666	1353	45
8	Raffiness	DL Seeds	951	1055	819	981	45
9	Mercedes	Rubisco Seeds	941	1341	935	547	44
10	Einstein	DL Seeds	937	925	992	894	49
11	Popular	DL Seeds	866	1198	835	566	48
12	46W99	DuPont Pioneer	746	1180	453	605	50
13	Virginia	Virginia State	718	706	625	824	48
14	Wichita	Kansas State University	658	665	394	914	46
15	Dimension	Rubisco Seeds	582	973	279	495	45
16	HyCLASS 115W	Croplan by WinField	533	671	419	508	51
17	DKW 45-25	Monsanto / DeKalb	487	598	403	461	48
18	Star 915	Star Specialty Seed	482	729	100	618	50
19	DKW 41-10	Monsanto / DeKalb	278	408	212	214	46
20	DKW 44-10	Monsanto / DeKalb	262	421	137	228	48
21	DKW 47-15	Monsanto / DeKalb	---	---	283	729	---
22	DKW 46-15	Monsanto / DeKalb	---	---	397	479	---
23	Hekip	Momont	---	1593	---	---	---
24	DK Severnyl	Monsanto / DeKalb	---	1538	---	---	---
25	SY Harnas	Syngenta	---	1525	---	---	---
26	SY Saveo	Syngenta	---	1504	---	---	---
27	SY Fighter	Syngenta	---	1200	---	---	---
28	SY Marten	Syngenta	---	1117	---	---	---
29	Croplan 14-05W	Croplan by WinField	---	1044	---	---	---
30	DK IMISTAR CL	Monsanto / DeKalb	---	1008	---	---	---
31	Croplan 15-20W	Croplan by WinField	---	897	---	---	---
32	Croplan 15-19W	Croplan by WinField	---	731	---	---	---
33	Sumner	Kansas State University	---	676	---	---	---
34	VSX-3	Virginia State	---	529	---	---	---
Mean			847	1023	637	877	47
LSD			172	350	279	318	2
CV			21.8	21.0	26.2	22.0	4.4

2015 National winter canola variety trial located in College Station, TX.

Rank	Variety	Source	2- Year		2015							
			Avg. Yield (lb/a)	Yield (lb/a)	Test Wt. (lb/bu)	Height (cm)	Vigor† (0-5 Scale)	Bloom (Julian Day)	Shatter (%)	Lodging (%)	Green Seed (%)	Maturity (Julian Day)
1	Visby	Rubisco Seeds	1511	1148	47.5	152	3.7	85	13	2	7	141
2	SY Saveo	Syngenta	1495	1504	45.0	154	5.0	88	15	0	15	141
3	Mercedes	Rubisco Seeds	1491	1341	46.3	157	4.3	90	15	2	12	142
4	46W94	DuPont Pioneer	1441	1401	48.3	158	3.7	83	23	0	2	140
5	46W99	DuPont Pioneer	1428	1180	49.4	157	3.0	83	30	0	7	141
6	Popular	DL Seeds	1394	1198	46.9	146	4.3	89	33	0	12	141
7	Inspiration	Rubisco Seeds	1343	1268	49.0	150	4.7	85	10	0	10	142
8	Hornet	Rubisco Seeds	1332	1334	48.0	144	4.7	88	13	20	5	140
9	SY Marten	Syngenta	1325	1117	48.7	143	5.0	83	20	20	10	142
10	Garou	DL Seeds	1311	1289	45.7	145	4.7	89	10	3	5	141
11	Dimension	Rubisco Seeds	1255	973	47.1	158	4.3	83	37	0	2	139
12	Raffiness	DL Seeds	1200	1055	46.3	147	4.7	91	13	5	13	143
13	Edimax CL	Rubisco Seeds	1176	990	46.7	158	4.3	89	7	20	10	142
14	Virginia	Virginia State	1143	706	51.3	131	4.3	83	17	37	2	138
15	YSX-3	Virginia State	1042	529	47.0	134	4.3	83	37	50	0	138
16	HyCLASS 115W	Croplan by WinField	987	671	51.5	142	4.3	83	40	10	3	139
17	DKW41-10	Monsanto / DeKalb	937	408	48.7	138	5.0	85	47	22	2	138
18	Star 915	Star Specialty Seed	930	729	50.3	148	4.3	83	30	7	0	138
19	Wichita	KSU	887	665	46.5	144	4.3	91	20	3	10	140
20	Sumner	KSU	855	676	48.3	138	2.7	85	27	5	10	141
21	DKW44-10	Monsanto / DeKalb	597	421	50.1	134	4.3	85	43	7	2	138
22	Hekip	Momont		1593	45.9	152	4.7	83	17	0	13	143
23	DK Severnyl	Monsanto / DeKalb		1538	49.6	157	4.7	91	8	0	3	141
24	SY Harnas	Syngenta		1525	49.2	150	4.7	83	17	0	8	142
25	SY Fighter	Syngenta	1200		49.4	143	3.7	83	7	0	23	144
26	DL 14001RR	Monsanto / DeKalb		1062	46.4	153	4.0	90	15	10	33	145
27	Croplan 14-05W	Croplan by WinField		1044	47.2	150	4.3	83	27	0	3	141
28	DK IMISTAR CL	Monsanto / DeKalb		1008	52.6	156	4.3	90	5	20	5	141
29	Einstein	DL Seeds		925	49.0	148	5.0	83	23	50	3	139
30	Croplan 15-20W	Croplan by WinField		897	49.6	143	4.0	83	23	5	3	139
31	Croplan 15-19W	Croplan by WinField		731	48.7	146	4.3	90	23	13	7	141
32	DKW45-25	Monsanto / DeKalb		598	50.2	144	3.7	83	33	23	2	139
Mean			1196	1023	48.4	148	4.3	86	22	10	8	141
LSD			272	350	4.1	15	1.0	4	15	29	9	3
CV			19.7	21	4.8	5.0	13.6	2.8	43.3	171.0	75.9	1.2

†Rating with 0-5 scale, where 5 equals excellent.

2015 National winter canola variety trial located in McGregor, TX.

Rank	Variety	Source	Yield (lb/a)	Test Wt. (lb/bu)	Height (cm)	Shatter (%)	Lodging (%)	Green Seed (%)
1	Edimax CL	Rubisco Seeds	1842	48.7	152	10	0	0
2	Inspiration	Rubisco Seeds	1826	46.4	142	3	0	0
3	Hornet	Rubisco Seeds	1660	46.1	142	3	2	0
4	DL 14001	Monsanto / DeKalb	1353	42.8	147	13	0	3
5	Garou	DL Seeds	1304	41.5	143	3	0	0
6	Visby	Rubisco Seeds	1212	38.8	147	3	0	0
7	46W94	DuPont Pioneer	1031	46.7	160	13	3	0
8	Raffiness	DL Seeds	981	45.3	155	17	0	0
9	Wichita	KSU	914	46.6	130	10	2	0
10	Einstein	DL Seeds	894	48.1	143	20	0	0
11	Virginia	Virginia State	824	46.9	132	20	2	0
12	DKW47-15	Monsanto / DeKalb	729	48.5	133	17	0	2
13	Star 915	Star Specialty Seed	618	48.8	142	23	3	0
14	46W99	DuPont Pioneer	605	49.7	158	20	2	0
15	Popular	DL Seeds	566	47.3	137	30	0	0
16	Mercedes	Rubisco Seeds	547	42.5	135	20	0	0
17	HyCLASS 115W	Croplan by WinField	508	51.5	152	20	3	0
18	Dimension	Rubisco Seeds	495	45.2	158	30	3	0
19	DKW46-15	Monsanto / DeKalb	479	46.9	130	10	5	0
20	DKW45-25	Monsanto / DeKalb	461	47.7	135	23	13	0
21	DKW44-10	Monsanto / DeKalb	228	49.3	117	30	7	0
22	DKW41-10	Monsanto / DeKalb	214	46.2	130	37	5	0
Mean			877	46.4	142	17	2	0
LSD			318	2.9	23	11	10	2
CV			22	4	10	38	269	611

2015 National winter canola variety trial located in Thrall, TX.

Rank	Variety	Source	Yield (lb/a)	Test Wt. (lb/bu)	Height (cm)	Bloom Date (Julian D.)	Shatter (%)	Lodging (%)	Green Seed (%)
1	Hornet	Rubisco Seeds	1304	46.6	162	100	5	13	3
2	Edimax CL	Rubisco Seeds	1179	46.6	162	98	7	3	2
3	Inspiration	Rubisco Seeds	1173	42.9	160	100	8	13	3
4	Einstein	DL Seeds	992	48.7	165	100	33	8	0
5	Mercedes	Rubisco Seeds	935	44.5	162	100	17	5	0
6	Garou	DL Seeds	843	---	158	100	12	5	0
7	Popular	DL Seeds	835	48.4	152	100	30	17	0
8	Raffiness	DL Seeds	819	44.5	150	100	20	45	0
9	Visby	Rubisco Seeds	817	42.7	160	100	12	33	0
10	46W94	DuPont Pioneer	797	47.6	170	98	37	10	0
11	DL 14001	Monsanto / DeKalb	666	---	158	100	13	3	2
12	Virginia	Virginia State	625	45.9	152	95	12	50	0
13	46W99	DuPont Pioneer	453	50.3	150	100	17	63	0
14	HyCLASS 115W	Croplan by WinField	419	48.5	152	98	12	57	0
15	DKW45-25	Monsanto / DeKalb	403	46.1	143	100	13	70	0
16	DKW46-15	Monsanto / DeKalb	397	44.8	148	100	10	62	0
17	Wichita	KSU	394	44.1	152	100	18	27	0
18	DKW47-15	Monsanto / DeKalb	283	47.0	147	100	10	45	0
19	Dimension	Rubisco Seeds	279	43.0	177	88	60	3	0
20	DKW41-10	Monsanto / DeKalb	212	43.5	142	88	30	90	0
21	DKW44-10	Monsanto / DeKalb	137	45.1	125	88	10	62	1
22	Star 915	Star Specialty Seed	100	---	133	100	17	73	0
Mean			637	46.2	154	98	18	34	0
LSD			279	3.5	16	4	15	40	2
CV			26.2	4.0	6.4	2.7	50.5	69.2	246.1

2015 Spring canola variety trial located in College Station, TX.

Rank	Variety	Company	Yield (lb/a)	TW (lb/bu)	Height (cm)	Bloom Date (Julian D)	Lodging (%)	Shatter (%)	Green Seed (%)
1	InVigor 5440	Bayer	1143	52.1	149	52	0	15	0
2	InVigor L252	Bayer	1088	52.8	144	53	0	10	0
3	InVigor L140P	Bayer	1000	50.8	144	51	0	0	0
4	45H31	Pioneer	983	52.0	138	52	0	8	0
5	RUB 5525 CL	Rubisco	954	51.2	146	51	0	5	0
6	V12-1	Cargill	915	49.9	145	50	0	5	1
7	InVigor L130	Bayer	907	52.0	133	52	0	15	0
8	DKL 74-54 RR	DeKalb	784	52.7	145	53	0	20	0
9	DKL 70-07	DeKalb	738	52.0	137	52	0	10	0
10	V12-2	Cargill	724	52.2	133	52	0	10	0
11	45H29	Pioneer	695	49.2	138	49	0	10	0
12	DKL 30-42	DeKalb	682	52.1	115	52	0	20	0
13	HyCLASS 930	Winfield/Croplan	552	51.6	123	52	0	10	0
14	46H75	Pioneer	513	48.1	145	48	0	0	5
15	CCSC100	---	506	52.3	116	52	0	30	0
16	InVigor L160S	Bayer	496	51.0	142	51	0	30	0
17	HyCLASS 955 R	Winfield/Croplan	465	51.8	118	52	0	15	0
18	DKL 55-55	DeKalb	378	52.3	118	52	0	15	0
19	DKL 38-48	DeKalb	370	52.4	123	52	0	10	0
20	DKL 30-03	DeKalb	217	50.0	111	50	0	20	0
Mean			733	51.4	133	68	0	12	0
LSD			404	1.3	12	1	ns	12	0
CV			23.0	1.1	3.8	17.2	---	42.4	58.1

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□ Educational programs of Texas A&M AgriLife Extension Service and the Texas A&M University System Agriculture Program are open to all people without regard to race, color, sex, disability, religion, age, or national origin. November 2015.