



# 2015 Texas Canola Variety Trial Results

[varietytesting.tamu.edu/oilseed](http://varietytesting.tamu.edu/oilseed)

# 2015 Texas Uniform Canola Variety Trials

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Texas A&M AgriLife Extension Service

Clark Neely, Daniel Hathcoat, Ryan Collett,  
Marty Jungman, Josh McGinty, Shane McLellan, Michael Donalson,  
Archie Abrameit

Texas A&M AgriLife Research

Paul DeLaune

Kansas State University

Mike Stamm, Scott Dooley

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## Contact Information

Dr. Clark Neely, Small Grains and Oilseed Extension Specialist, College Station, TX  
Email: [cbneely@tamu.edu](mailto:cbneely@tamu.edu) | Phone: 979-862-1412

Dr. Paul DeLaune, Soil Scientist, Vernon, TX  
Email: [pbdelaune@ag.tamu.edu](mailto:pbdelaune@ag.tamu.edu) | Phone: 940-552-9941

Dr. Josh McGinty, Regional Extension Agronomist, Corpus Christi, TX  
Email: [Joshua.mcginty@ag.tamu.edu](mailto:Joshua.mcginty@ag.tamu.edu) | Phone: 361-265-9203

Dr. Calvin Trostle, Regional Extension Agronomist, Lubbock, TX  
Email: [ctrostle@ag.tamu.edu](mailto:ctrostle@ag.tamu.edu) | Phone: 806-746-6101

Dr. Jourdan Bell, Regional Extension Agronomist, Amarillo, TX  
Email: [bell0316@tamu.edu](mailto:bell0316@tamu.edu) | Phone: 806-677-5663

Dr. Emi Kimura, Regional Extension Agronomist, Vernon, TX  
Email: [emi.kimura@ag.tamu.edu](mailto:emi.kimura@ag.tamu.edu) | Phone: 940-552-9941

## 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                                   |
|----------------------------|---|--|-------------------------------------|-------------------------------------|---|--|
| <b>Chillicothe</b>         | Texas A&M<br>AgriLife<br>Research Station | Destroyed by<br>extreme weather<br>event May 8     | 9/23/14                             | ABANDONED                           | 30# N/A<br>12# S/A                        | Prevathon<br>(14 oz/a)<br>Karate<br>(4 oz/a) |
| <b>College<br/>Station</b> | Texas A&M<br>AgriLife<br>Extension Farm   | Wet field<br>conditions at<br>harvest, shatter     | 10/16/14 (wint.)<br>10/31/14 (spr.) | 05/20/15 (wint.)<br>05/01/15 (spr.) | 10# Zn/A<br>80# N/A<br>25# S/A<br>5# Mn/A | Treflan<br>(2 pt/a)<br>Ignite<br>(34 oz/a)   |
| <b>Covington</b>           | Albert Sulak<br>Brian Sulak               | Hail, wet field<br>conditions, shatter,<br>lodging | 10/21/14                            | ABANDONED                           | 100# N/A<br>15# S/A                       | Roundup                                      |
| <b>Doss</b>                | Adam Geistweidt<br>Mark Geistweidt        | Aphids, dry<br>winter, henbit,<br>downy brome      | 10/22/14                            | ABANDONED                           | 60# N/A                                   | Stinger<br>(½ pt/A)<br>Poast<br>(2.5 pt/A)   |
| <b>McGregor</b>            | Jason Niemeier                            | Wet field<br>conditions at<br>harvest, shatter     | 10/21/14                            | 06/02/15                            | --  | Roundup                                      |
| <b>Thrall</b>              | Stiles Farm<br>Foundation                 | Wet field<br>conditions, shatter,<br>lodging       | 10/22/14                            | 05/28/15                            | 80# N/A<br>25# S/A                        | None   |
| <b>Woodsboro</b>           | Walt Franke                               | Wet field<br>conditions at<br>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<br>(lb/a) | Winter<br>Survival<br>(%) | Fall†<br>Stand<br>(0-10) | 50%<br>Bloom<br>(DOY) | Test<br>Weight<br>(lb/bu) |
|-------------------|--------------|-------------------------|-----------------|---------------------------|--------------------------|-----------------------|---------------------------|
| 1                 | DKW 46-15    | Monsanto / DeKalb       | ---             | <b>91.7</b>               | 8.7                      | 100                   | ---                       |
| 2                 | Wichita      | Kansas State University | ---             | <b>90.0</b>               | 6.3                      | 107                   | ---                       |
| 3                 | DKW 41-10    | Monsanto / DeKalb       | ---             | <b>90.0</b>               | 6.3                      | 99                    | ---                       |
| 4                 | DKW 44-10    | Monsanto / DeKalb       | ---             | <b>90.0</b>               | 8.3                      | 103                   | ---                       |
| 5                 | SY Saveo     | Syngenta                | ---             | <b>88.3</b>               | 7.3                      | 107                   | ---                       |
| 6                 | HYCLASS 125W | Croplan by WinField     | ---             | <b>86.7</b>               | 8.3                      | 100                   | ---                       |
| 7                 | DKW 47-15    | Monsanto / DeKalb       | ---             | <b>83.3</b>               | 8.7                      | 107                   | ---                       |
| 8                 | HYCLASS 115W | Croplan by WinField     | ---             | <b>83.3</b>               | 7.3                      | 99                    | ---                       |
| 9                 | Hornet       | Rubisco Seeds           | ---             | <b>81.7</b>               | 8.0                      | 100                   | ---                       |
| 10                | NK Technic   | Syngenta                | ---             | <b>81.7</b>               | 7.3                      | 100                   | ---                       |
| 11                | NK Petrol    | Syngenta                | ---             | <b>76.7</b>               | 8.3                      | 108                   | ---                       |
| 12                | DK Imiron CL | Monsanto / DeKalb       | ---             | <b>73.3</b>               | 8.0                      | 108                   | ---                       |
| 13                | DK Sensei    | Monsanto / DeKalb       | ---             | <b>73.3</b>               | 9.0                      | 109                   | ---                       |
| 14                | 46W99        | DuPont Pioneer          | ---             | <b>68.3</b>               | 6.3                      | 110                   | ---                       |
| 15                | DK Exstorm   | Monsanto / DeKalb       | ---             | <b>66.7</b>               | 7.0                      | 112                   | ---                       |
| 16                | Artoga       | Limagrain               | ---             | <b>65.0</b>               | 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                      | ---                   | ---                       |
| <b>Mean</b>       |              |                         | ---             | <b>70</b>                 | <b>7.4</b>               | <b>106</b>            | ---                       |
| <b>LSD (0.10)</b> |              |                         | ---             | <b>32</b>                 | <b>NS</b>                | <b>5</b>              | ---                       |
| <b>CV</b>         |              |                         | ---             | <b>32.9</b>               | <b>20.4</b>              | <b>3.0</b>            | ---                       |

†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           | <b>1433</b>       | <b>1334</b>     | <b>1304</b> | <b>1660</b>          | 47         |
| 2    | Inspiration    | Rubisco Seeds           | <b>1422</b>       | <b>1268</b>     | <b>1173</b> | <b>1826</b>          | 46         |
| 3    | Edimax CL      | Rubisco Seeds           | <b>1337</b>       | 990             | <b>1179</b> | <b>1842</b>          | 47         |
| 4    | Garou          | DL Seeds                | 1145              | <b>1289</b>     | 843         | 1304                 | 44         |
| 5    | 46W94          | DuPont Pioneer          | 1076              | <b>1401</b>     | 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               | <b>1341</b>     | 935         | 547                  | 44         |
| 10   | Einstein       | DL Seeds                | 937               | 925             | 992         | 894                  | <b>49</b>  |
| 11   | Popular        | DL Seeds                | 866               | 1198            | 835         | 566                  | 48         |
| 12   | 46W99          | DuPont Pioneer          | 746               | 1180            | 453         | 605                  | <b>50</b>  |
| 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                  | <b>51</b>  |
| 17   | DKW 45-25      | Monsanto / DeKalb       | 487               | 598             | 403         | 461                  | 48         |
| 18   | Star 915       | Star Specialty Seed     | 482               | 729             | 100         | 618                  | <b>50</b>  |
| 19   | DKW 41-10      | Monsanto / DeKalb       | 278               | 408             | 212         | 214                  | 46         |
| 20   | DKW 44-10      | Monsanto / DeKalb       | 262               | 421             | 137         | 228                  | <b>48</b>  |
| 21   | DKW 47-15      | Monsanto / DeKalb       | ---               | ---             | 283         | 729                  | ---        |
| 22   | DKW 46-15      | Monsanto / DeKalb       | ---               | ---             | 397         | 479                  | ---        |
| 23   | Hekip          | Momont                  | ---               | <b>1593</b>     | ---         | ---                  | ---        |
| 24   | DK Severnyl    | Monsanto / DeKalb       | ---               | <b>1538</b>     | ---         | ---                  | ---        |
| 25   | SY Harnas      | Syngenta                | ---               | <b>1525</b>     | ---         | ---                  | ---        |
| 26   | SY Saveo       | Syngenta                | ---               | <b>1504</b>     | ---         | ---                  | ---        |
| 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             | ---         | ---                  | ---        |
|      | <b>Mean</b>    |                         | <b>847</b>        | <b>1023</b>     | <b>637</b>  | <b>877</b>           | <b>47</b>  |
|      | <b>LSD</b>     |                         | <b>172</b>        | <b>350</b>      | <b>279</b>  | <b>318</b>           | <b>2</b>   |
|      | <b>CV</b>      |                         | <b>21.8</b>       | <b>21.0</b>     | <b>26.2</b> | <b>22.0</b>          | <b>4.4</b> |

## 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                   |
| <b>Mean</b> |                |                     | <b>1196</b>       | <b>1023</b>  | <b>48.4</b>      | <b>148</b>  | <b>4.3</b>         | <b>86</b>          | <b>22</b>   | <b>10</b>    | <b>8</b>       | <b>141</b>            |
| <b>LSD</b>  |                |                     | <b>272</b>        | <b>350</b>   | <b>4.1</b>       | <b>15</b>   | <b>1.0</b>         | <b>4</b>           | <b>15</b>   | <b>29</b>    | <b>9</b>       | <b>3</b>              |
| <b>CV</b>   |                |                     | <b>19.7</b>       | <b>21</b>    | <b>4.8</b>       | <b>5.0</b>  | <b>13.6</b>        | <b>2.8</b>         | <b>43.3</b> | <b>171.0</b> | <b>75.9</b>    | <b>1.2</b>            |

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

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

| Rank        | Variety      | Source              | Yield<br>(lb/a) | Test Wt.<br>(lb/bu) | Height<br>(cm) | Shatter<br>(%) | Lodging<br>(%) | Green<br>Seed<br>(%) |
|-------------|--------------|---------------------|-----------------|---------------------|----------------|----------------|----------------|----------------------|
| 1           | Edimax CL    | Rubisco Seeds       | <b>1842</b>     | <b>48.7</b>         | 152            | 10             | 0              | 0                    |
| 2           | Inspiration  | Rubisco Seeds       | <b>1826</b>     | 46.4                | 142            | 3              | 0              | 0                    |
| 3           | Hornet       | Rubisco Seeds       | <b>1660</b>     | 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             | <b>48.8</b>         | 142            | 23             | 3              | 0                    |
| 14          | 46W99        | DuPont Pioneer      | 605             | <b>49.7</b>         | 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             | <b>51.5</b>         | 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             | <b>49.3</b>         | 117            | 30             | 7              | 0                    |
| 22          | DKW41-10     | Monsanto / DeKalb   | 214             | 46.2                | 130            | 37             | 5              | 0                    |
| <b>Mean</b> |              |                     | <b>877</b>      | <b>46.4</b>         | <b>142</b>     | <b>17</b>      | <b>2</b>       | <b>0</b>             |
| <b>LSD</b>  |              |                     | <b>318</b>      | <b>2.9</b>          | <b>23</b>      | <b>11</b>      | <b>10</b>      | <b>2</b>             |
| <b>CV</b>   |              |                     | <b>22</b>       | <b>4</b>            | <b>10</b>      | <b>38</b>      | <b>269</b>     | <b>611</b>           |

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

| Rank        | Variety      | Source              | Yield<br>(lb/a) | Test Wt.<br>(lb/bu) | Height<br>(cm) | Bloom Date<br>(Julian D.) | Shatter<br>(%) | Lodging<br>(%) | Green<br>Seed<br>(%) |
|-------------|--------------|---------------------|-----------------|---------------------|----------------|---------------------------|----------------|----------------|----------------------|
| 1           | Hornet       | Rubisco Seeds       | <b>1304</b>     | 46.6                | 162            | 100                       | 5              | 13             | 3                    |
| 2           | Edimax CL    | Rubisco Seeds       | <b>1179</b>     | 46.6                | 162            | 98                        | 7              | 3              | 2                    |
| 3           | Inspiration  | Rubisco Seeds       | <b>1173</b>     | 42.9                | 160            | 100                       | 8              | 13             | 3                    |
| 4           | Einstein     | DL Seeds            | 992             | <b>48.7</b>         | 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             | <b>48.4</b>         | 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             | <b>47.6</b>         | 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             | <b>50.3</b>         | 150            | 100                       | 17             | 63             | 0                    |
| 14          | HyCLASS 115W | Croplan by WinField | 419             | <b>48.5</b>         | 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             | <b>47.0</b>         | 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                    |
| <b>Mean</b> |              |                     | <b>637</b>      | <b>46.2</b>         | <b>154</b>     | <b>98</b>                 | <b>18</b>      | <b>34</b>      | <b>0</b>             |
| <b>LSD</b>  |              |                     | <b>279</b>      | <b>3.5</b>          | <b>16</b>      | <b>4</b>                  | <b>15</b>      | <b>40</b>      | <b>2</b>             |
| <b>CV</b>   |              |                     | <b>26.2</b>     | <b>4.0</b>          | <b>6.4</b>     | <b>2.7</b>                | <b>50.5</b>    | <b>69.2</b>    | <b>246.1</b>         |

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

| Rank        | Variety       | Company          | Yield<br>(lb/a) | TW<br>(lb/bu) | Height<br>(cm) | Bloom<br>Date<br>(Julian D) | Lodging<br>(%) | Shatter<br>(%) | Green<br>Seed<br>(%) |
|-------------|---------------|------------------|-----------------|---------------|----------------|-----------------------------|----------------|----------------|----------------------|
| 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                    |
| <b>Mean</b> |               |                  | <b>733</b>      | <b>51.4</b>   | <b>133</b>     | <b>68</b>                   | <b>0</b>       | <b>12</b>      | <b>0</b>             |
| <b>LSD</b>  |               |                  | <b>404</b>      | <b>1.3</b>    | <b>12</b>      | <b>1</b>                    | <b>ns</b>      | <b>12</b>      | <b>0</b>             |
| <b>CV</b>   |               |                  | <b>23.0</b>     | <b>1.1</b>    | <b>3.8</b>     | <b>17.2</b>                 | <b>---</b>     | <b>42.4</b>    | <b>58.1</b>          |

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