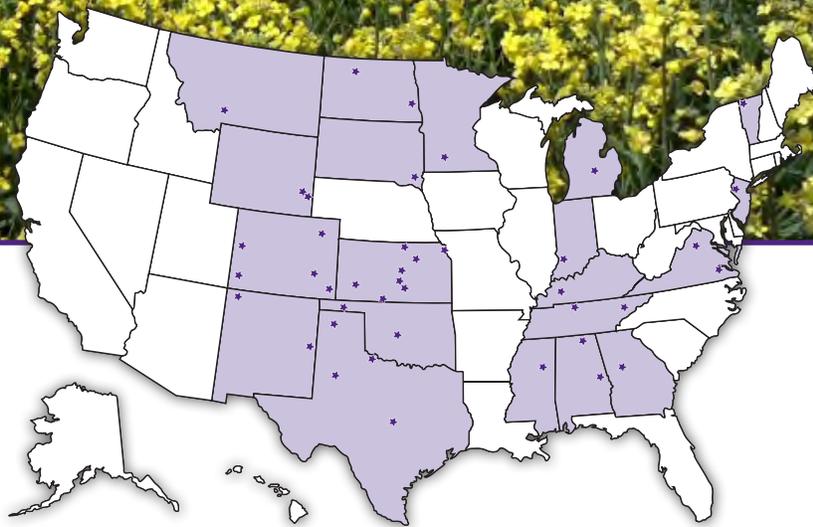


**2013**

# National Winter Canola Variety Trial



***Report of Progress 1098***



**K-STATE**  
Research and Extension

Kansas State University Agricultural Experiment Station and Cooperative Extension Service



# 2013 National Winter Canola Variety Trial

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Contribution no. 14-305-S from the Kansas Agricultural Experiment Station

# 2013 National Winter Canola Variety Trial

## Objectives

The objectives of the National Winter Canola Variety Trial (NWCVT) are to evaluate the performance of released and experimental varieties, determine where these varieties are best adapted, and increase the visibility of winter canola across the United States. Breeders, marketers, and producers use data collected from the trials to make informed variety selections. The NWCVT is planted at locations in the Great Plains, Midwest, northern U.S., and Southeast.

## Procedures

Seed for the NWCVT was distributed to 41 cooperators in 20 states for the 2012-2013 growing season. The locations receiving seed are illustrated on the map on the front cover. Of the 50 entries tested, 24 were commercial and 26 were experimental. These entries were provided by 11 global seed suppliers. All entries in the trial were treated with either Helix XTra, Prosper FX, or Accelaron seed treatments to control insects and seedling diseases through the late fall and early winter months.

Management guidelines were provided to cooperators, but previous growing experience influenced final management decisions. All trials were planted in small research plots (approximately 100 ft<sup>2</sup>) with three or four replications. Cultural practices, site descriptions, growing conditions, and performance data are provided for each harvested location. Yield results for some locations include 3-year summaries. Results are listed alphabetically by seed supplier.

The Brassica Breeding and Research Program at the University of Idaho performed total oil and protein analysis for all sites using near-infrared spectroscopy. The seed of the Technology Crops International entries was tested internally for oil content.

SGS North America; the USDA-ARS Grassland, Soil, and Water Research Laboratory at Temple, TX; and South Dakota State University at Beresford were new

cooperators in 2012-2013. See the back cover for a listing of participating cooperators.

The NWCVT continues in the 2013-2014 growing season and includes 57 entries. Twelve seed suppliers contributed to the trial, and it was distributed to 46 locations in 22 states.

## 2012-2013 Growing Conditions

Temperature and precipitation data are shown at the top of the page for each location. Thick black lines on the temperature graphs represent long-term average high and low temperatures (°F) for the location. The upper thin line represents actual daily high temperatures, and the lower thin line represents actual daily low temperatures. On the precipitation graph, the line labeled “normal” represents long-term average precipitation, and the line labeled “12-13” represents actual precipitation. If weather information was not provided, data were taken from a nearby town.

In general, the 2012-2013 growing season saw dry conditions at planting and above-normal temperatures throughout the winter months. The spring was challenging because of a slow greenup and late spring freeze events, but ideal weather during grain fill resulted in excellent yields. Overall temperatures were cooler in the northern U.S., thus resulting in winter stand loss.

## Test Sites and Results

Seventeen harvested locations in 12 states are included in this report: Meridianville, AL; Fruita, CO; Griffin, GA; Vincennes, IN; Andale, Belleville, Garden City, and Hutchinson, KS; Princeton, KY; Starkville, MS; Bozeman, MT; Pittstown, NJ; Clovis and Farmington, NM; Springfield, TN; and Orange and Petersburg, VA.

A number of sites, especially in the Great Plains, were affected by devastating drought and late spring freezes. Fifteen locations were not harvested because of drought, hail, poor establishment, or winterkill. Another nine locations were harvested, but the results were not included because the data quality was poor.

KSUR21 had an unknown germination issue, thus poor performance may be reflected.

The “percentage of test average” yield calculation is included in the results. This relative yield calculation allows for some comparison of performance across environments. Entries yielding more than 100 percent of the test average across multiple locations merit some consideration. Regional summary tables were created with data from 2008 to 2013.

Overall, yields were good to excellent where moisture was abundant throughout the growing season. The consistency of yields was excellent, with most sites averaging over 2,000 lb/acre. Yields were above average in the Great Plains and average in the Midwest and southeastern U.S. Twelve sites averaged 2,000 lb/acre, and two sites averaged 3,000 lb/acre. Canola weighs 50 lb/bushel, so a 2,000 lb/acre yield is 40 bushels/acre.

Caution should be used when evaluating data from locations with coefficient of variation (CV) values greater than 20. Lower values suggest less error was observed at the location. Inestimable differences in soil type, weather, and environmental conditions play a part in increasing experimental error and CV values.

### **Variety Selection**

Winter hardiness is an important trait to consider when selecting a winter canola variety. This trait has been improved, but variability still exists where differential winterkill occurs. Winter canola varieties should show consistent survival across multiple years and locations. Other traits to consider include herbicide resistance, tolerance to carryover from sulfonylurea herbicides, maturity, disease tolerance, yield potential, and oil content. Use more than one year of data to make an informed variety selection decision.

Some sites include High Erucic Acid Rapeseed (HEAR). By definition, HEAR is not canola because it produces greater than 2% erucic acid in the processed oil. The harvested seed cannot be mixed with canola grain, and the oil can be used for industrial purposes only. If HEAR is commercially grown, it will be under contract and a delivery point must be identified before planting.

Table 21 provides information on the tolerance of varieties to the blackleg fungus.

View Table 22 for seed sources, brand names, and traits of the winter canola varieties and hybrids grown in the NWCVT.

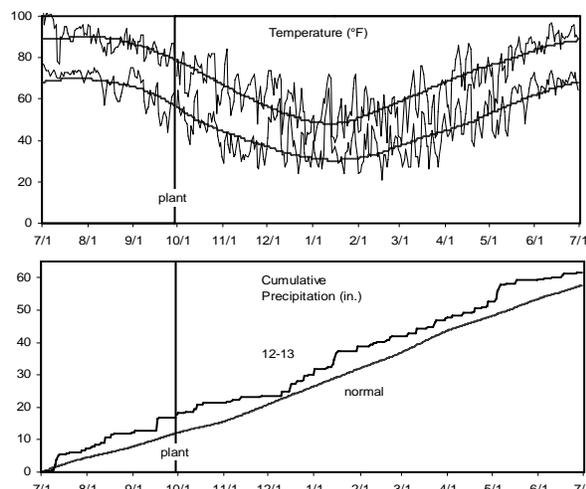
### **Acknowledgments**

This work was funded in part by the Supplemental and Alternative Crops Competitive Grants Program, which is administered by the U. S. Department of Agriculture-National Institute of Food and Agriculture, and the Kansas Agricultural Experiment Station. Assistant scientist Scott Dooley and student workers Emma Gantz, Jessica Martin, and Baylee Showalter assisted with organizing, packaging, planting, harvesting, and data collection. Sincere appreciation is expressed to all participating researchers and seed suppliers who have a vested interest in expanding winter canola acres and increasing production in the U.S.

### Meridianville, Alabama

Ernst Cebert  
Alabama A&M University

Planted: 9/29/2012 at 6 lb/a in 7-in. rows  
Harvested: 6/20/2013  
Herbicides: 2.5 pt/a Trifluralin  
Insecticides: None  
Irrigation: None  
Previous crop: Wheat  
Soil test: NA  
Fertilizer: 50-50-50 lb N-P-K fertilizer in fall  
120-0-0 lb N-P-K fertilizer in spring  
Soil type: Decatur silty clay loam  
Elevation: 624 ft Latitude: 34° 35'N  
Comments: The growing season was mild and precipitation was above normal.



**Table 1. Results for the 2013 National Winter Canola Variety Trial at Meridianville, AL**

Name	Yield (lb/a) <sup>1</sup>			Yield (% of test avg.)			Plant		Test			
	2013	2012	3-yr.	2013	2013	2012	3-yr.	height (in.)	Moisture (%)	weight (lb/bu)	Protein (%)	Oil (%)
<b>Bayer CropScience</b>												
RG29101	2245	---	---	93	---	---	---	42	6.0	50.7	23.2	41.3
RG29102	2164	---	---	90	---	---	---	44	6.6	51.5	22.7	43.1
<b>CROPLAN by WinField</b>												
HyCLASS 115W	2249	1164	1707	93	---	---	---	42	6.0	49.0	24.6	43.9
HyCLASS 125W	2000	1194	1597	83	---	---	---	41	6.9	48.2	25.3	42.3
<b>DL Seeds Inc. / Rubisco Seeds LLC</b>												
Baldur	2619	1681	1981	108	---	---	---	39	6.2	50.1	22.0	43.2
Dimension	2636	---	---	109	---	---	---	45	6.4	48.3	22.5	<b>45.7</b>
Dynastie	2672	<b>2150</b>	2404	111	---	---	---	39	5.9	50.7	20.8	45.4
Edimax	2962	1800	2381	123	---	---	---	49	6.7	50.4	20.4	45.2
Flash	2834	1887	2308	117	---	---	---	40	6.3	49.7	20.9	45.2
Hornet	2527	1706	2210	105	---	---	---	45	6.2	50.0	20.6	<b>45.8</b>
Inspiration	3001	---	---	124	---	---	---	42	6.5	50.4	22.0	44.3
NPZ 1005	2725	1914	2320	113	---	---	---	42	6.2	48.1	21.8	<b>46.1</b>
Rumba	<b>3340</b>	1642	2491	138	---	---	---	45	6.3	49.2	22.2	44.2
Safran	<b>3118</b>	<b>2569</b>	2735	129	---	---	---	42	5.7	51.0	21.1	43.6
Sitro	2960	1718	2233	123	---	---	---	42	5.8	49.3	20.7	<b>46.0</b>
Visby	2452	1471	1949	102	---	---	---	39	6.3	49.0	22.5	43.1
<b>DuPont Pioneer</b>												
46W94	1927	1606	1766	80	---	---	---	39	6.0	49.3	21.6	45.1
46W99	2044	1542	1793	85	---	---	---	38	6.2	48.9	23.0	44.6
Pioneer Exp1	2356	---	---	98	---	---	---	38	6.6	48.9	21.9	<b>47.0</b>
Pioneer Exp2	2977	---	---	123	---	---	---	43	6.3	49.3	21.4	<b>46.6</b>
Pioneer Exp3	2548	---	---	106	---	---	---	39	5.9	49.5	20.4	<b>46.2</b>
Pioneer Exp4	2768	---	---	115	---	---	---	45	6.1	49.8	22.8	44.6
<b>High Plains Crop Development</b>												
Claremore	2059	1551	1805	85	---	---	---	41	6.3	49.6	24.4	43.0
HPX-7228	1791	1073	1685	74	---	---	---	35	6.3	48.3	23.4	42.4
HPX-7341	1795	1558	1514	74	---	---	---	37	6.3	48.3	25.2	42.6
<b>Kansas State University</b>												
KS4428	2055	1926	1921	85	---	---	---	41	6.4	49.0	22.8	43.9
KS4476	2254	---	---	93	---	---	---	42	6.0	49.9	24.6	42.4
KSR07363	2164	---	---	90	---	---	---	39	6.7	49.0	23.7	43.8
KSUR21	2275	---	---	94	---	---	---	45	6.3	50.0	24.6	42.5
Riley	2341	1503	1858	97	---	---	---	40	6.1	46.9	24.4	44.1
Sumner	1887	1407	1581	78	---	---	---	36	6.7	50.3	24.4	43.1
Wichita	2226	1814	2025	92	---	---	---	41	6.3	49.7	24.7	42.5

**Table 1. Results for the 2013 National Winter Canola Variety Trial at Meridianville, AL**

Name	Yield (lb/a) <sup>1</sup>			Yield (% of test avg.)			Winter survival (%)		Plant height (in.)	Moisture (%)	Test weight (lb/bu)	Protein (%)	Oil (%)
	2013	2012	3-yr.	2013	2013	2012	3-yr.						
<b>MOMONT, France</b>													
Chrome	<b>3942</b>	2106	2716	163	---	---	---	47	6.2	50.7	21.9	44.1	
MH07J14	<b>3161</b>	<b>2445</b>	2803	131	---	---	---	45	6.6	50.7	22.5	44.3	
MH09E3	<b>3150</b>	---	---	130	---	---	---	42	6.6	49.1	21.2	45.1	
MH09H19	2298	1667	1983	95	---	---	---	40	6.2	49.6	22.4	44.2	
<b>Monsanto / DEKALB</b>													
DKW41-10	2042	1166	1455	85	---	---	---	34	6.4	50.3	27.1	41.1	
DKW44-10	1744	1638	1635	72	---	---	---	34	6.7	50.0	23.0	41.7	
DKW46-15	1788	1624	1689	74	---	---	---	35	6.5	48.8	23.6	44.0	
DKW47-15	2057	1313	1698	85	---	---	---	43	6.4	47.9	24.2	42.6	
<b>Syngenta</b>													
Gladius	2990	---	---	124	---	---	---	42	6.1	49.2	21.6	43.5	
NK PETROL	2589	---	---	107	---	---	---	45	6.8	48.9	23.3	42.8	
NK Technic	2648	---	---	110	---	---	---	44	6.5	49.5	23.5	41.8	
Sy Regata	2563	---	---	106	---	---	---	39	6.1	48.5	21.5	44.6	
<b>Virginia State University</b>													
Virginia	2501	1720	1856	104	---	---	---	36	6.4	49.7	23.9	43.2	
VSX-3	1552	1800	1775	64	---	---	---	34	6.5	49.5	25.8	40.6	
<b>Mean</b>	2456	1658	---	---	---	---	---	41	6.3	49.5	22.9	43.8	
<b>CV</b>	21	17	---	---	---	---	---	9	7.4	2.1	3.4	1.5	
<b>LSD (0.05)</b>	854	447	---	---	---	---	---	6	NS	1.7	1.6	1.4	

**Bold:** Superior LSD group. Unless two entries differ by more than the LSD, little confidence can be placed in one being superior to the other.

<sup>1</sup>Use yield data with caution. A CV above 20 indicates higher experimental error. Make variety selection decisions based on more than one year's data.

Griffin, Georgia

Don Day, John Gasset, Mitch Gilmer, and Gary Ware  
University of Georgia

Planted: 10/10/2012 at 5 lb/a in 7-in. rows  
Harvested: 6/13/2013  
Herbicides: Treflan and Poast  
Insecticides: None  
Irrigation: None  
Previous crop: Fallow  
Soil test: P=High, K=High, and pH=5.9  
Fertilizer: 20-40-60 lb N-P-K fertilizer in fall  
130-0-0 lb N-P-K fertilizer in spring  
Soil type: Cecil sandy clay loam  
Elevation: 1064 ft Latitude: 39° 12'N  
Comments: Above normal temperatures and normal precipitation throughout the growing season.

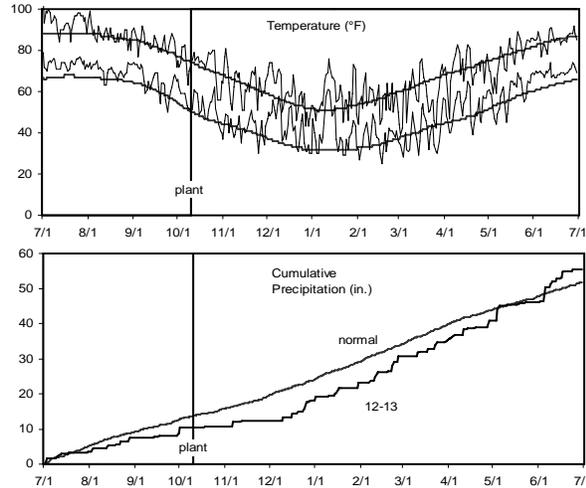


Table 2. Results for the 2013 National Winter Canola Variety Trial at Griffin, GA

Name	Yield (lb/a)			Yield (% of test avg.)			Winter survival (%)		Plant height (in.)	50% bloom (DOY)	Test weight (lb/bu)	Protein (%)	Oil (%)
	2013	2012	3-yr.	2013	2013	2012	3-yr.						
<b>Bayer CropScience</b>													
RG29101	2740	---	---	97	100	---	---	54	92	50.0	20.6	40.1	
RG29102	2708	---	---	96	100	---	---	59	91	46.4	21.3	40.1	
<b>CROPLAN by WinField</b>													
HyCLASS 115W	2518	<b>1752</b>	2087	89	100	---	---	44	92	47.0	21.3	<b>44.0</b>	
HyCLASS 125W	2543	1290	1803	90	100	---	---	48	92	46.2	22.7	41.7	
<b>DL Seeds Inc. / Rubisco Seeds LLC</b>													
Baldur	2477	1624	1997	88	100	---	---	49	95	47.9	21.2	40.7	
Dimension	3174	---	---	113	100	---	---	56	90	47.4	20.1	<b>45.4</b>	
Dynastie	3573	1533	2598	127	100	---	---	51	98	47.3	21.2	40.7	
Edimax	3480	1607	2543	124	100	---	---	53	96	47.7	22.0	41.1	
Flash	<b>4111</b>	1642	2685	146	100	---	---	58	93	48.5	19.6	<b>43.8</b>	
Hornet	3152	<b>1785</b>	2685	112	100	---	---	49	96	47.6	19.5	<b>43.1</b>	
Inspiration	<b>3647</b>	---	---	130	100	---	---	54	93	46.8	20.0	42.6	
NPZ 1005	3219	<b>1849</b>	2534	114	100	---	---	50	94	46.7	19.9	<b>43.1</b>	
Rumba	3261	<b>2010</b>	2636	116	100	---	---	52	93	44.3	21.5	41.3	
Safran	3209	1498	2330	114	100	---	---	52	100	48.9	---	---	
Sitro	3418	<b>1738</b>	2641	121	100	---	---	56	92	48.4	20.5	42.4	
Visby	2883	1364	2156	102	100	---	---	50	96	48.4	21.1	41.9	
<b>DuPont Pioneer</b>													
46W94	2537	1453	1995	90	98	---	---	55	91	46.4	20.8	<b>42.9</b>	
46W99	2391	1231	1811	85	98	---	---	53	91	48.2	21.5	42.2	
Pioneer Exp1	3193	---	---	113	100	---	---	51	99	46.3	21.4	<b>44.3</b>	
Pioneer Exp2	2671	---	---	95	100	---	---	53	98	46.8	21.3	<b>43.5</b>	
Pioneer Exp3	2869	---	---	102	98	---	---	47	100	47.6	21.9	<b>42.9</b>	
Pioneer Exp4	2460	---	---	87	100	---	---	48	100	45.6	23.5	39.7	
<b>High Plains Crop Development</b>													
Claremore	2556	915	1735	91	93	---	---	51	102	47.1	23.4	41.6	
HPX-7228	2254	1421	1836	80	100	---	---	47	91	50.3	22.9	38.7	
HPX-7341	2425	1452	1990	86	97	---	---	47	93	48.4	23.5	41.5	
<b>Kansas State University</b>													
KS4428	2635	1364	2086	94	100	---	---	51	94	49.0	23.3	40.5	
KS4476	2140	---	---	76	100	---	---	55	99	46.6	23.3	41.2	
KSR07363	2386	---	---	85	97	---	---	51	94	46.7	23.1	40.4	
KSUR21	2015	---	---	72	100	---	---	51	98	45.9	24.6	39.0	
Riley	2378	1181	1710	84	97	---	---	46	94	48.7	23.6	40.6	
Sumner	2287	1327	1916	81	100	---	---	47	93	47.3	23.9	40.0	
Wichita	2645	1159	1987	94	100	---	---	49	97	47.3	23.5	42.4	

**Table 2. Results for the 2013 National Winter Canola Variety Trial at Griffin, GA**

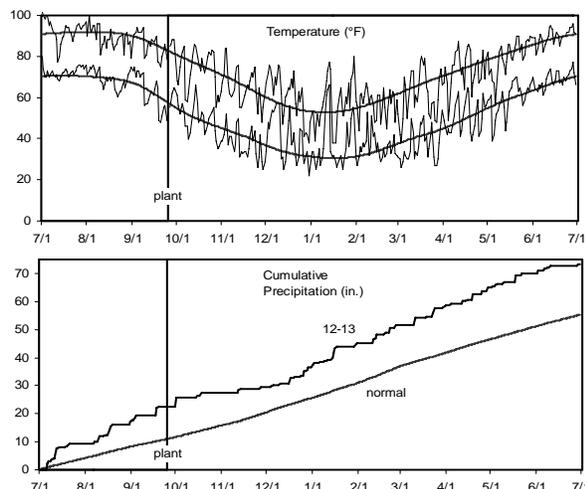
Name	Yield (lb/a)			Yield (% of test avg.)				Plant height (in.)	50% bloom (DOY)	Test weight (lb/bu)	Protein (%)	Oil (%)
	2013	2012	3-yr.	2013	2013	2012	3-yr.					
<b>MOMONT, France</b>												
Chrome	3119	1496	2310	111	98	---	---	55	94	46.2	20.8	42.1
MH07J14	3290	<b>1859</b>	2575	117	100	---	---	56	95	47.7	21.1	42.0
MH09E3	3451	---	---	123	100	---	---	53	95	48.4	20.6	42.3
MH09H19	<b>3793</b>	1610	2701	135	100	---	---	60	92	48.4	20.4	<b>43.0</b>
<b>Monsanto / DEKALB</b>												
DKW41-10	1969	1651	1645	70	100	---	---	38	77	49.2	23.2	40.9
DKW44-10	2585	1288	1964	92	100	---	---	46	92	44.9	21.9	40.9
DKW46-15	1865	840	1516	66	98	---	---	45	92	48.0	23.1	41.2
DKW47-15	2074	1383	1725	74	100	---	---	55	99	47.0	22.4	41.2
<b>Syngenta</b>												
Gladius	3082	---	---	109	100	---	---	50	93	47.3	20.4	42.2
NK PETROL	3070	---	---	109	100	---	---	57	98	47.8	21.6	40.3
NK Technic	3263	---	---	116	100	---	---	55	95	47.9	20.6	40.7
SY Regata	3038	---	---	108	97	---	---	50	93	47.1	20.1	41.2
<b>Virginia State University</b>												
Virginia	2597	1304	2008	92	100	---	---	47	92	46.8	22.9	41.3
VSX-3	2338	1310	1902	83	100	---	---	47	92	48.3	24.4	37.8
<b>Mean</b>	2815	1425	---	---	99	---	---	51	94	47.4	21.8	41.6
<b>CV</b>	11	17	---	---	2	---	---	8	2	3.7	3.9	3.2
<b>LSD (0.05)</b>	524	403	---	---	NS	---	---	6	3	2.8	1.7	2.7

**Bold:** Superior LSD group. Unless two entries differ by more than the LSD, little confidence can be placed in one being superior to the other.

### Starkville, Mississippi

Brian Baldwin and Brett Rushing  
Mississippi State University

Planted: 9/25/2012 at 6 lb/a in 7-in. rows  
Harvested: 6/20/2013  
Herbicides: 1.5 pt/a Trifluralin  
Insecticides: None  
Irrigation: None  
Previous crop: Perennial grasses  
Soil test: NA  
Fertilizer: 50-0-0-20 lb N-P-K-S fertilizer in fall  
50-0-0 lb N-P-K fertilizer in spring  
Soil type: Catalpa silty clay loam  
Elevation: 333 ft Latitude: 33° 25'N  
Comments: Difference in drainage and previous  
crop type contributed to variability in the  
yield data. Use with caution.



**Table 3. Results for the 2013 National Winter Canola Variety Trial at Starkville, MS**

Name	Yield (lb/a) <sup>1</sup>			Yield (% of test avg.)			Plant		Shatter (%)	Moisture (%)	Protein (%)	Oil (%)
	2013	2012	3-yr.	2013	2012	3-yr.	height (in.)	Winter survival (%)				
<b>Bayer CropScience</b>												
RG29101	1459	---	---	132	97	---	44	6.7	11.9	18.3	44.2	
RG29102	1037	---	---	94	100	---	40	1.7	11.2	18.1	44.2	
<b>CROPLAN by WinField</b>												
HyCLASS 115W	918	---	---	83	83	---	39	3.3	11.6	18.5	45.5	
HyCLASS 125W	1140	---	---	103	80	---	38	1.7	11.9	19.3	44.9	
<b>DL Seeds Inc. / Rubisco Seeds LLC</b>												
Baldur	740	---	---	67	73	---	34	5.0	11.8	18.3	44.9	
Dimension	1273	---	---	115	93	---	36	3.3	10.7	17.7	47.1	
Dynastie	1191	---	---	108	53	---	39	0.0	12.9	17.7	45.0	
Edimax	1304	---	---	118	80	---	44	6.7	11.5	18.2	45.6	
Flash	1233	---	---	111	70	---	34	1.7	12.0	16.9	46.6	
Hornet	1099	---	---	99	77	---	40	10.0	10.1	18.3	44.9	
Inspiration	1662	---	---	150	93	---	38	5.0	10.4	16.7	46.6	
NPZ 1005	1141	---	---	103	87	---	39	3.3	12.1	17.4	46.9	
Rumba	1125	---	---	102	90	---	38	26.7	12.5	17.3	45.7	
Safran	1347	---	---	122	70	---	36	0.0	11.9	18.7	44.8	
Sitro	838	---	---	76	83	---	44	8.3	11.7	17.0	45.9	
Visby	885	---	---	80	73	---	33	6.7	11.7	17.3	44.8	
<b>DuPont Pioneer</b>												
46W94	1398	---	---	126	97	---	33	1.7	11.9	17.4	46.6	
46W99	937	---	---	85	73	---	33	6.7	11.2	17.8	44.7	
Pioneer Exp1	1108	---	---	100	80	---	33	1.7	10.3	18.1	48.0	
Pioneer Exp2	1193	---	---	108	87	---	35	5.0	11.8	18.4	47.1	
Pioneer Exp3	1073	---	---	97	87	---	39	3.3	11.5	16.9	48.4	
Pioneer Exp4	616	---	---	56	67	---	34	0.0	12.2	18.8	46.6	
<b>High Plains Crop Development</b>												
Claremore	1029	---	---	93	67	---	38	13.3	11.8	19.6	45.3	
HPX-7228	951	---	---	86	80	---	29	11.7	9.9	18.8	44.3	
HPX-7341	803	---	---	73	77	---	31	10.0	11.6	19.1	45.7	
<b>Kansas State University</b>												
KS4428	848	---	---	77	50	---	32	10.0	10.5	18.7	44.5	
KS4476	735	---	---	66	60	---	32	10.0	11.5	19.1	44.0	
KSR07363	1333	---	---	120	73	---	38	5.0	12.7	18.6	45.7	
KSUR21	942	---	---	85	53	---	36	10.0	11.7	19.7	45.2	
Riley	712	---	---	64	63	---	42	3.3	12.2	18.9	44.4	
Sumner	1043	---	---	94	70	---	35	1.7	12.2	18.7	45.9	
Wichita	848	---	---	77	70	---	32	3.3	11.4	20.8	43.3	

**Table 3. Results for the 2013 National Winter Canola Variety Trial at Starkville, MS**

Name	Yield (lb/a) <sup>1</sup>			Yield (% of test avg.)			Winter survival (%)		Plant height (in.)	Shatter (%)	Moisture (%)	Protein (%)	Oil (%)
	2013	2012	3-yr.	2013	2013	2012	3-yr.						
<b>MOMONT, France</b>													
Chrome	1249	---	---	113	<b>83</b>	---	---	32	5.0	10.6	18.5	44.8	
MH07J14	<b>1607</b>	---	---	145	<b>87</b>	---	---	42	3.3	11.7	17.0	<b>46.4</b>	
MH09E3	<b>1640</b>	---	---	148	<b>90</b>	---	---	30	0.0	11.6	18.0	45.8	
MH09H19	1042	---	---	94	<b>90</b>	---	---	42	1.7	11.4	17.3	46.1	
<b>Monsanto / DEKALB</b>													
DKW41-10	888	---	---	80	<b>100</b>	---	---	28	1.7	11.9	17.8	45.4	
DKW44-10	783	---	---	71	<b>90</b>	---	---	34	0.0	10.5	18.2	44.6	
DKW46-15	1245	---	---	112	<b>90</b>	---	---	35	3.3	10.5	18.7	45.9	
DKW47-15	836	---	---	76	<b>77</b>	---	---	38	23.3	9.9	18.6	45.7	
<b>Syngenta</b>													
Gladius	915	---	---	83	<b>77</b>	---	---	33	3.3	11.0	16.7	44.6	
NK PETROL	993	---	---	90	<b>83</b>	---	---	42	11.7	11.6	18.4	45.1	
NK Technic	1104	---	---	100	73	---	---	42	3.3	10.6	19.2	43.2	
SY Regata	906	---	---	82	<b>80</b>	---	---	32	26.7	12.0	17.9	45.0	
<b>Technology Crops International</b>													
Rossini	<b>1864</b>	---	---	168	<b>93</b>	---	---	40	3.3	11.7	---	---	
TCI/F13	<b>1409</b>	---	---	127	<b>87</b>	---	---	40	13.3	11.0	---	---	
TCI16	<b>1496</b>	---	---	135	<b>93</b>	---	---	44	3.3	11.6	---	---	
TCI17	<b>1504</b>	---	---	136	<b>83</b>	---	---	47	1.7	11.5	---	---	
<b>Virginia State University</b>													
Virginia	1120	---	---	101	67	---	---	28	1.7	10.5	19.4	42.3	
VSX-3	766	---	---	69	<b>83</b>	---	---	32	0.0	11.9	19.3	45.2	
<b>Mean</b>	1107	---	---	---	80	---	---	37	5.9	11.4	18.3	45.4	
<b>CV</b>	28	---	---	---	18	---	---	17	190.2	8.6	4.8	2.2	
<b>LSD (0.05)</b>	506	---	---	---	23	---	---	10	NS	1.6	1.8	2.1	

**Bold:** Superior LSD group. Unless two entries differ by more than the LSD, little confidence can be placed in one being superior to the other.

<sup>1</sup>Use yield data with caution. A CV above 20 indicates higher experimental error. Make variety selection decisions based on more than one year's data.

Pittstown, New Jersey

David Lee and Melvin Henninger  
Rutgers University

Planted: 9/25/2012  
 Harvested: 7/9/2013  
 Herbicides: 1.5 pt/a Triflurex  
 Insecticides: None  
 Irrigation: None  
 Previous crop: Fallow  
 Soil test: NA  
 Fertilizer: 126-0-0-144 lb N-P-K-S fertilizer in fall  
 60-0-0 lb N-P-K fertilizer in spring  
 Soil type: Quakertown silt loam  
 Elevation: 600 ft Latitude: 40° 33'N  
 Comments: Harvest was delayed because of rainy weather, but yields were excellent.

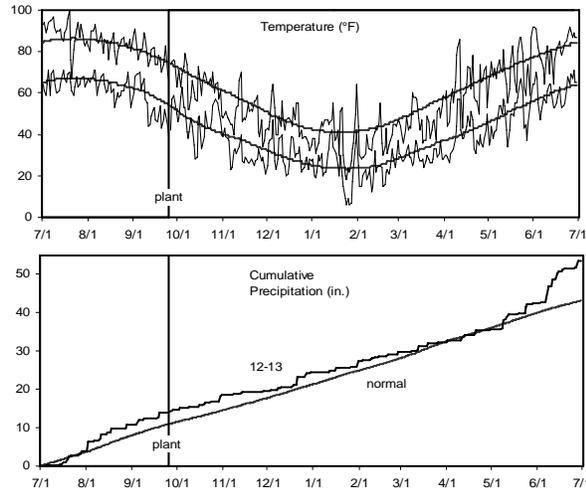


Table 4. Results for the 2013 National Winter Canola Variety Trial at Pittstown, NJ

Name	Yield (lb/a)			Yield (% of test avg.)			Plant			Test		
	2013	2012	3-yr.	2013	2013	2012	3-yr.	height (in.)	Moisture (%)	weight (lb/bu)	Protein (%)	Oil (%)
<b>Bayer CropScience</b>												
RG29101	2008	---	---	65	---	---	---	60	10.7	51.0	23.2	35.7
RG29102	2477	---	---	80	---	---	---	60	9.4	51.7	21.7	39.2
<b>CROPLAN by WinField</b>												
HyCLASS 115W	<b>3315</b>	2776	2575	107	---	---	---	59	10.8	50.4	23.2	41.3
HyCLASS 125W	<b>3468</b>	2906	2667	111	---	---	---	60	9.2	51.4	22.2	42.7
<b>DL Seeds Inc. / Rubisco Seeds LLC</b>												
Baldur	<b>3559</b>	3105	2796	114	---	---	---	61	10.8	51.1	21.0	42.4
Dimension	3018	---	---	97	---	---	---	61	10.4	50.0	20.6	<b>44.7</b>
Dynastie	<b>3392</b>	<b>3441</b>	2868	109	---	---	---	61	9.9	51.6	20.9	41.4
Edimax	<b>3495</b>	3192	3343	112	---	---	---	61	8.9	51.4	19.7	42.6
Flash	<b>3933</b>	<b>3612</b>	3116	126	---	---	---	63	10.2	50.7	21.4	41.6
Hornet	<b>3784</b>	<b>3454</b>	3066	122	---	---	---	64	9.0	51.7	21.2	41.7
Inspiration	<b>3834</b>	---	---	123	---	---	---	60	9.1	51.6	20.6	41.6
NPZ 1005	<b>3464</b>	3090	3277	111	---	---	---	59	9.6	50.6	21.1	<b>43.0</b>
Rumba	<b>3548</b>	<b>3443</b>	3496	114	---	---	---	56	9.2	51.2	21.6	40.2
Safran	3171	<b>3491</b>	3041	102	---	---	---	60	9.9	51.6	21.6	40.8
Sitro	<b>3624</b>	3039	2842	116	---	---	---	60	8.7	51.4	20.2	42.8
Visby	3201	2941	2544	103	---	---	---	59	9.8	50.7	20.8	<b>43.1</b>
<b>DuPont Pioneer</b>												
46W94	<b>3327</b>	2803	3065	107	---	---	---	62	9.9	51.7	21.1	42.2
46W99	2965	2587	2776	95	---	---	---	60	8.8	51.2	20.8	42.9
Pioneer Exp1	<b>3441</b>	---	---	111	---	---	---	57	8.7	50.7	21.3	<b>44.1</b>
Pioneer Exp2	3102	---	---	100	---	---	---	60	8.9	50.8	20.4	<b>45.6</b>
Pioneer Exp3	<b>3350</b>	---	---	108	---	---	---	52	8.9	51.4	20.8	<b>44.6</b>
Pioneer Exp4	2915	---	---	94	---	---	---	56	10.1	50.7	22.5	42.4
<b>High Plains Crop Development</b>												
Claremore	2984	2883	2605	96	---	---	---	61	11.3	49.7	24.6	40.9
HPX-7228	2496	3014	2435	80	---	---	---	59	10.4	51.2	22.2	39.2
HPX-7341	2835	3066	2697	91	---	---	---	61	9.3	51.1	22.7	41.7
<b>Kansas State University</b>												
KS4428	2690	3048	2582	86	---	---	---	63	11.1	51.0	23.7	40.6
KS4476	2740	---	---	88	---	---	---	62	10.3	51.2	23.7	40.2
KSR07363	3113	---	---	100	---	---	---	59	9.3	51.3	24.5	38.5
KSUR21	2854	---	---	92	---	---	---	61	10.9	51.1	23.6	41.1
Riley	3098	2416	2472	100	---	---	---	58	10.2	51.4	23.3	40.9
Sumner	2900	2289	2217	93	---	---	---	60	9.6	51.4	23.5	40.8
Wichita	2607	2601	2272	84	---	---	---	59	9.4	50.6	23.8	40.5

**Table 4. Results for the 2013 National Winter Canola Variety Trial at Pittstown, NJ**

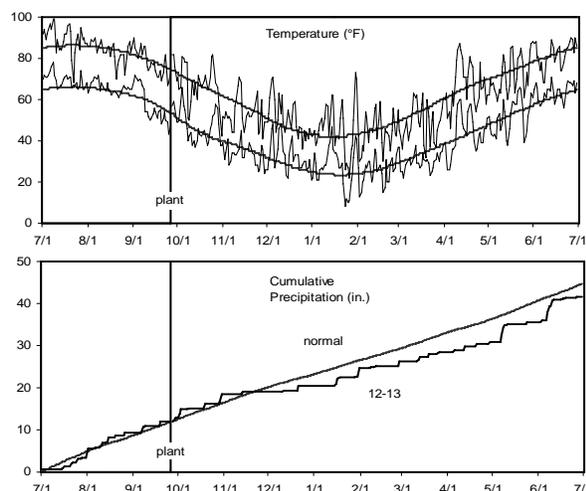
Name	Yield (lb/a)			Yield (% of test avg.)			Winter survival (%)		Plant height (in.)	Moisture (%)	Test weight (lb/bu)	Protein (%)	Oil (%)
	2013	2012	3-yr.	2013	2013	2012	3-yr.						
<b>MOMONT, France</b>													
Chrome	<b>3849</b>	3115	3112	124	---	---	---	61	10.2	51.3	21.5	41.6	
MH07J14	<b>3746</b>	<b>3945</b>	3846	120	---	---	---	59	10.1	50.8	21.4	41.8	
MH09E3	3182	---	---	102	---	---	---	60	9.9	51.0	21.2	41.2	
MH09H19	3030	<b>3666</b>	3348	97	---	---	---	58	9.2	50.9	21.3	41.1	
<b>Monsanto / DEKALB</b>													
DKW41-10	2134	2205	1849	69	---	---	---	51	9.5	52.6	24.2	37.5	
DKW44-10	2031	2663	2169	65	---	---	---	55	9.5	51.1	22.5	38.6	
DKW46-15	2812	2590	2343	90	---	---	---	55	9.1	51.2	21.6	42.9	
DKW47-15	2770	2764	2374	89	---	---	---	59	9.7	50.3	23.2	41.9	
<b>Syngenta</b>													
Gladius	3133	---	---	101	---	---	---	---	9.4	50.6	21.9	40.3	
NK PETROL	<b>3586</b>	---	---	115	---	---	---	62	9.5	51.3	21.5	41.3	
NK Technic	<b>3403</b>	---	---	109	---	---	---	61	10.0	51.3	21.5	39.9	
SY Regata	<b>3498</b>	---	---	112	---	---	---	60	10.3	50.2	21.3	41.1	
<b>Technology Crops International</b>													
Rossini	<b>3411</b>	3277	2970	110	---	---	---	64	8.8	51.2	---	---	
TCI/F13	2439	---	---	78	---	---	---	59	10.0	50.8	---	---	
TCI16	2774	---	---	89	---	---	---	62	9.5	50.0	---	---	
TCI17	<b>3369</b>	---	---	108	---	---	---	67	9.8	50.3	---	---	
<b>Virginia State University</b>													
Virginia	2767	2689	2430	89	---	---	---	53	9.8	51.3	22.6	39.9	
VSX-3	2934	3268	2611	94	---	---	---	56	9.1	51.4	22.7	40.6	
<b>Mean</b>	3112	2978	---	---	---	---	---	---	9.7	51.0	22.0	41.3	
<b>CV</b>	13	13	---	---	---	---	---	---	11.7	1.1	3.2	3.1	
<b>LSD (0.05)</b>	664	648	---	---	---	---	---	---	---	---	1.5	2.6	

**Bold:** Superior LSD group. Unless two entries differ by more than the LSD, little confidence can be placed in one being superior to the other.

### Orange, Virginia

Wade Thomason and Steve Gulick  
Virginia Tech University

Planted: 9/26/2012 at 5 lb/a in 7-in. rows  
Harvested: 6/28/2013  
Herbicides: 1 pt/a Treflan HP  
Insecticides: None  
Irrigation: None  
Soil test: NA  
Fertilizer: 30-60-60 lb N-P-K fertilizer in fall  
60-0-0 lb N-P-K fertilizer in spring  
Soil type: Davidson silty clay  
Elevation: 510 ft Latitude: 38° 13'N  
Comments: Normal temperatures and precipitation  
for the 2012-2013 growing season.



**Table 5. Results for the 2013 National Winter Canola Variety Trial at Orange, VA**

Name	Yield (lb/a) <sup>1</sup>			Yield (% of test avg.)			Plant height (in.)	Moisture (%)	Test weight (lb/bu)	Protein (%)	Oil (%)	
	2013	2012	3-yr.	2013	2013	2012						2-yr.
<b>Bayer CropScience</b>												
RG29101	<b>3023</b>	---	---	121	---	---	---	47	9.7	50.1	21.9	37.3
RG29102	2687	---	---	108	---	---	---	47	8.7	50.2	21.5	39.9
<b>CROPLAN by WinField</b>												
HyCLASS 115W	2104	<b>2925</b>	2363	84	---	---	---	48	9.0	48.2	24.6	38.7
HyCLASS 125W	2020	2698	2277	81	---	---	---	47	9.0	47.6	24.3	38.3
<b>DL Seeds Inc. / Rubisco Seeds LLC</b>												
Baldur	2188	<b>3544</b>	2842	88	---	---	---	47	9.0	49.5	21.3	39.5
Dimension	2418	---	---	97	---	---	---	57	9.2	47.7	21.5	<b>43.4</b>
Dynastie	2657	<b>2666</b>	2930	106	---	---	---	47	8.8	49.9	21.2	39.9
Edimax	<b>3054</b>	<b>3645</b>	3349	122	---	---	---	48	8.9	49.0	19.8	<b>42.8</b>
Flash	2680	2622	2649	107	---	---	---	54	9.0	49.0	21.6	40.4
Hornet	2719	<b>3049</b>	2961	109	---	---	---	48	8.9	49.1	21.5	41.6
Inspiration	<b>3100</b>	---	---	124	---	---	---	47	8.8	49.7	21.9	40.1
NPZ 1005	<b>3228</b>	<b>3384</b>	3306	129	---	---	---	47	9.2	48.2	20.4	<b>42.8</b>
Rumba	<b>3072</b>	<b>3410</b>	3241	123	---	---	---	47	9.5	48.6	21.0	40.0
Safran	<b>2950</b>	<b>3969</b>	3240	118	---	---	---	48	9.5	48.5	21.4	40.7
Sitro	<b>3094</b>	2722	2983	124	---	---	---	46	9.1	49.1	21.8	<b>41.9</b>
Visby	2443	<b>3982</b>	3132	98	---	---	---	47	9.1	48.7	21.0	40.7
<b>DuPont Pioneer</b>												
46W94	2236	2499	2368	90	---	---	---	57	9.6	48.6	21.5	40.9
46W99	2149	<b>3028</b>	2589	86	---	---	---	47	9.2	49.8	23.0	40.5
Pioneer Exp1	<b>2777</b>	---	---	111	---	---	---	47	8.9	48.6	21.4	<b>44.0</b>
Pioneer Exp2	2619	---	---	105	---	---	---	47	9.1	48.5	20.5	<b>43.8</b>
Pioneer Exp3	<b>2886</b>	---	---	116	---	---	---	48	8.7	49.2	20.5	<b>43.3</b>
Pioneer Exp4	2625	---	---	105	---	---	---	47	8.9	49.3	22.6	40.2
<b>High Plains Crop Development</b>												
Claremore	2463	<b>3082</b>	2773	99	---	---	---	46	9.1	48.3	24.0	40.6
HPX-7228	1760	<b>3593</b>	2763	70	---	---	---	47	9.3	49.1	24.0	35.7
HPX-7341	1905	<b>3396</b>	2709	76	---	---	---	48	8.9	49.4	24.1	39.2
<b>Kansas State University</b>												
KS4428	2203	<b>3058</b>	2672	88	---	---	---	47	9.1	48.5	23.3	39.8
KS4476	2206	---	---	88	---	---	---	47	9.4	50.2	23.8	38.7
KSR07363	2136	---	---	86	---	---	---	47	9.2	49.3	23.7	38.1
KSUR21	1681	---	---	67	---	---	---	46	9.4	49.3	23.5	40.0
Riley	2154	<b>3063</b>	2607	86	---	---	---	46	8.8	48.8	23.3	39.9
Sumner	2206	<b>2950</b>	2556	88	---	---	---	50	9.3	50.3	25.0	38.4
Wichita	2223	<b>3015</b>	2708	89	---	---	---	47	9.3	49.7	23.6	39.5

**Table 5. Results for the 2013 National Winter Canola Variety Trial at Orange, VA**

Name	Yield (lb/a) <sup>1</sup>			Yield (% of test avg.)				Plant height (in.)	Moisture (%)	Test weight (lb/bu)	Protein (%)	Oil (%)
	2013	2012	3-yr.	2013	2013	2012	2-yr.					
<b>MOMONT, France</b>												
Chrome	<b>3111</b>	<b>3721</b>	3414	125	---	---	---	47	9.2	49.0	21.6	41.0
MH07J14	<b>3011</b>	<b>3220</b>	3115	121	---	---	---	48	9.5	48.5	22.0	40.6
MH09E3	<b>2819</b>	---	---	113	---	---	---	46	9.1	48.4	20.6	<b>41.9</b>
MH09H19	2376	<b>3978</b>	3177	95	---	---	---	46	9.4	49.3	21.7	41.1
<b>Monsanto / DEKALB</b>												
DKW41-10	1631	1889	1810	65	---	---	---	48	9.1	49.8	25.6	37.9
DKW44-10	2284	2118	2195	91	---	---	---	47	9.7	47.9	22.3	38.0
DKW46-15	1804	2757	2157	72	---	---	---	47	9.2	47.7	22.7	41.0
DKW47-15	1930	<b>3547</b>	2742	77	---	---	---	47	9.1	48.1	23.6	39.4
<b>Syngenta</b>												
Gladius	<b>2963</b>	---	---	119	---	---	---	47	9.7	47.4	21.4	39.5
NK PETROL	2695	---	---	108	---	---	---	47	9.0	49.3	22.2	40.3
NK Technic	<b>2790</b>	---	---	112	---	---	---	47	9.0	48.9	21.2	39.1
SY Regata	2730	---	---	109	---	---	---	47	9.1	47.7	21.1	40.3
<b>Technology Crops International</b>												
Rossini	<b>2875</b>	<b>3654</b>	3021	115	---	---	---	47	9.0	49.1	---	---
TCI/F13	2746	---	---	110	---	---	---	47	8.8	49.2	---	---
TCI16	2641	---	---	106	---	---	---	57	8.8	49.5	---	---
TCI17	2528	---	---	101	---	---	---	58	9.0	47.7	---	---
<b>Virginia State University</b>												
Virginia	2212	1898	2260	89	---	---	---	47	9.5	48.6	23.1	39.7
VSX-3	2069	2639	2569	83	---	---	---	47	9.2	48.2	23.5	39.5
<b>Mean</b>	2498	3071	---	---	---	---	---	48	9.1	48.9	22.3	40.2
<b>CV</b>	12	22	---	---	---	---	---	3	3.7	1.7	2.8	2.7
<b>LSD (0.05)</b>	473	1086	---	---	---	---	---	2	0.6	1.3	1.3	2.2

**Bold:** Superior LSD group. Unless two entries differ by more than the LSD, little confidence can be placed in one being superior to the other.

<sup>1</sup>Use yield data with caution. A CV above 20 indicates higher experimental error. Make variety selection decisions based on more than one year's data.

Petersburg, Virginia

Harbans Bhardwaj  
Virginia State University

Planted: 10/4/2012 in 15-in. rows  
Harvested: 7/16/2013  
Soil type: Abell sandy loam  
Elevation: 134 ft Latitude: 37° 15'N  
Comments: Normal temperatures and precipitation for the 2012-2013 growing season.

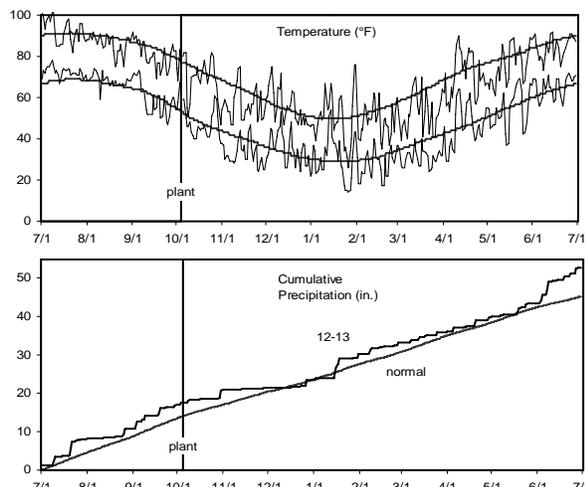


Table 6. Results for the 2013 National Winter Canola Variety Trial at Petersburg, VA

Name	Yield (lb/a) <sup>1</sup>			Yield (% of test avg.)			Plant			Test		
	2013	2012	3-yr.	2013	2013	2012	3-yr.	height (in.)	Moisture (%)	weight (lb/bu)	Protein (%)	Oil (%)
<b>Bayer CropScience</b>												
RG29101	1088	---	---	78	---	---	---	---	---	---	22.9	38.7
RG29102	703	---	---	50	---	---	---	---	---	---	23.1	38.7
<b>CROPLAN by WinField</b>												
HyCLASS 115W	1509	1168	1238	108	---	---	---	---	---	---	23.9	40.5
HyCLASS 125W	<b>1803</b>	1328	1503	129	---	---	---	---	---	---	23.1	41.2
<b>DL Seeds Inc. / Rubisco Seeds LLC</b>												
Baldur	1300	1516	1426	93	---	---	---	---	---	---	22.0	40.8
Dimension	1023	---	---	73	---	---	---	---	---	---	21.5	43.0
Dynastie	1414	<b>1839</b>	1453	101	---	---	---	---	---	---	21.8	42.0
Edimax	<b>1535</b>	1544	1540	109	---	---	---	---	---	---	22.7	40.4
Flash	<b>1925</b>	<b>1747</b>	1416	137	---	---	---	---	---	---	21.6	43.0
Hornet	1487	1538	1383	106	---	---	---	---	---	---	22.2	40.9
Inspiration	<b>1545</b>	---	---	110	---	---	---	---	---	---	21.9	41.8
NPZ 1005	1385	1546	1466	99	---	---	---	---	---	---	20.2	<b>45.4</b>
Rumba	<b>1709</b>	1565	1637	122	---	---	---	---	---	---	23.1	40.5
Safran	1416	<b>1815</b>	1300	101	---	---	---	---	---	---	22.9	41.3
Sitro	<b>1747</b>	<b>1967</b>	1554	125	---	---	---	---	---	---	21.7	41.9
Visby	1508	1093	1130	107	---	---	---	---	---	---	21.4	42.0
<b>DuPont Pioneer</b>												
46W94	1172	<b>1880</b>	1526	84	---	---	---	---	---	---	22.2	42.0
46W99	1324	1370	1347	94	---	---	---	---	---	---	22.9	40.2
Pioneer Exp1	<b>1688</b>	---	---	120	---	---	---	---	---	---	23.3	42.8
Pioneer Exp2	1244	---	---	89	---	---	---	---	---	---	22.0	42.4
Pioneer Exp3	<b>1889</b>	---	---	135	---	---	---	---	---	---	22.0	43.2
Pioneer Exp4	<b>1551</b>	---	---	111	---	---	---	---	---	---	22.3	43.2
<b>High Plains Crop Development</b>												
Claremore	<b>1660</b>	1475	1477	118	---	---	---	---	---	---	22.5	40.6
HPX-7228	1056	1244	1140	75	---	---	---	---	---	---	22.4	40.1
HPX-7341	<b>1923</b>	1564	1428	137	---	---	---	---	---	---	23.7	40.4
<b>Kansas State University</b>												
KS4428	1007	1258	1019	72	---	---	---	---	---	---	24.3	39.2
KS4476	1179	---	---	84	---	---	---	---	---	---	24.7	38.4
KSR07363	1372	---	---	98	---	---	---	---	---	---	23.0	40.4
KSUR21	1171	---	---	84	---	---	---	---	---	---	24.4	39.3
Riley	1298	1128	1206	93	---	---	---	---	---	---	24.7	39.8
Sumner	1227	1170	1130	87	---	---	---	---	---	---	24.5	40.3
Wichita	1345	1280	1285	96	---	---	---	---	---	---	24.2	39.5

**Table 6. Results for the 2013 National Winter Canola Variety Trial at Petersburg, VA**

Name	Yield (lb/a) <sup>1</sup>			Yield (% of test avg.)			Winter survival (%)			Plant height (in.)	Moisture (%)	Test weight (lb/bu)	Protein (%)	Oil (%)
	2013	2012	3-yr.	2013	2013	2012	3-yr.							
<b>MOMONT, France</b>														
Chrome	<b>1538</b>	<b>1880</b>	1521	110	---	---	---	---	---	---	---	22.5	40.3	
MH07J14	<b>1568</b>	<b>2143</b>	1855	112	---	---	---	---	---	---	---	23.7	40.3	
MH09E3	1519	---	---	108	---	---	---	---	---	---	---	21.7	41.0	
MH09H19	1210	<b>2130</b>	1670	86	---	---	---	---	---	---	---	23.6	40.4	
<b>Monsanto / DEKALB</b>														
DKW41-10	850	980	865	61	---	---	---	---	---	---	---	25.5	38.9	
DKW44-10	1152	1114	1015	82	---	---	---	---	---	---	---	23.7	38.0	
DKW46-15	1284	1416	1241	92	---	---	---	---	---	---	---	21.6	43.2	
DKW47-15	1008	1246	1030	72	---	---	---	---	---	---	---	24.4	38.8	
<b>Syngenta</b>														
Gladius	<b>1786</b>	---	---	127	---	---	---	---	---	---	---	22.3	41.4	
NK PETROL	1218	---	---	87	---	---	---	---	---	---	---	23.3	41.0	
NK Technic	1400	---	---	100	---	---	---	---	---	---	---	21.2	41.6	
SY Regata	1328	---	---	95	---	---	---	---	---	---	---	22.1	42.0	
<b>Technology Crops International</b>														
Rossini	1434	<b>1668</b>	1394	102	---	---	---	---	---	---	---	23.4	41.4	
TCI/F13	<b>1623</b>	---	---	116	---	---	---	---	---	---	---	23.1	40.4	
TCI16	1131	---	---	81	---	---	---	---	---	---	---	24.3	39.9	
TCI17	1264	---	---	90	---	---	---	---	---	---	---	22.9	41.0	
<b>Virginia State University</b>														
Virginia	<b>1825</b>	<b>1792</b>	1622	130	---	---	---	---	---	---	---	24.1	39.6	
VSX-3	<b>1791</b>	<b>1870</b>	1687	128	---	---	---	---	---	---	---	23.1	39.8	
<b>Mean</b>	1403	1497	---	---	---	---	---	---	---	---	---	22.9	40.9	
<b>CV</b>	18	22	---	---	---	---	---	---	---	---	---	3.9	2.5	
<b>LSD (0.05)</b>	405	546	---	---	---	---	---	---	---	---	---	1.8	2.0	

**Bold:** Superior LSD group. Unless two entries differ by more than the LSD, little confidence can be placed in one being superior to the other.

<sup>1</sup>Use yield data with caution. A CV above 20 indicates higher experimental error. Make variety selection decisions based on more than one year's data.

**Table 7. Southeast Region Summary Table**

Name	Yield (lb/a)	Number of observations	Oil (%)	Number of observations	Name	Yield (lb/a)	Number of observations	Oil (%)	Number of observations
<b>Bayer CropScience</b>					<b>MOMONT, France</b>				
RG29101	2221	5	39	5	Chrome	2706	21	42	20
RG29102	2148	5	40	5	MH07J14	2784	11	41	11
<b>CROPLAN by WinField</b>					MH09E3	2824	5	42	5
HyCLASS 115W	1982	15	40	32	MH09H19	2496	11	41	11
HyCLASS 125W	1858	39	40	15	<b>Monsanto / DEKALB</b>				
<b>DL Seeds Inc. / Rubisco Seeds LLC</b>					DKW41-10	1476	34	39	33
Baldur	1903	42	41	40	DKW44-10	1796	15	38	15
Dimension	2021	35	43	33	DKW46-15	1623	34	41	33
Dynastie	2512	24	41	22	DKW47-15	1750	34	40	33
Edimax	2532	11	41	11	<b>Syngenta</b>				
Flash	2155	38	41	36	Gladius	2791	5	41	5
Hornet	2420	16	41	16	NK PETROL	2632	5	41	5
Inspiration	3025	5	42	5	NK Technic	2701	5	41	5
NPZ 1005	2581	10	43	10	SY Regata	2631	5	42	5
Rumba	2600	11	40	11	<b>Technology Crops International</b>				
Safran	2285	37	40	35	Rossini	2393	13	42	10
Sitro	2220	37	41	36	TCI/F13	2269	3	---	---
Visby	2003	41	40	39	TCI16	2182	3	---	---
<b>DuPont Pioneer</b>					TCI17	2387	3	---	---
46W94	2144	10	42	10	<b>Virginia State University</b>				
46W99	2063	10	41	10	Virginia	1948	39	40	37
Pioneer Exp1	2691	5	44	5	VSX-3	2158	16	39	15
Pioneer Exp2	2523	5	44	5	<b>Mean<sup>1</sup></b>	1919	42	40	40
Pioneer Exp3	2708	5	44	5					
Pioneer Exp4	2464	5	42	5					
<b>High Plains Crop Development</b>									
Claremore	1934	33	40	32					
HPX-7228	2057	19	40	18					
HPX-7341	2113	19	40	18					
<b>Kansas State University</b>									
KS4428	2163	14	40	15					
KS4476	2104	5	40	5					
KSR07363	2234	5	40	5					
KSUR21	1999	5	40	5					
Riley	1851	37	40	36					
Sumner	1709	34	40	33					
Wichita	1818	42	40	40					

Data averaged over a 6-year period from 2008-2013.

<sup>1</sup>Number of mean observations, not average value of observations per entry.



Vincennes, Indiana

Charles Mansfield  
Vincennes University

Planted: 9/20/2012 at 5 lb/a in 6-in. rows  
 Harvested: 7/5/2013  
 Herbicides: 20 oz/a Treflan  
 Fungicides: 8 oz/a Prostaro and 5 oz/a Approach  
 Irrigation: None  
 Previous crop: Watermelon and Tomato  
 Soil test: 41-107 ppm P-K, pH=6.1  
 Fertilizer: 0-0-0 lb N-P-K fertilizer in fall  
 160-0-0-24 lb N-P-K-S fertilizer in spring  
 Soil type: Lomax loam  
 Elevation: 425 ft Latitude: 38° 44'N  
 Comments: Heavy rain delayed fungicide application.  
 Rain from mid-June through early July  
 delayed harvest, reduced test weight  
 and yield, and caused severe lodging.

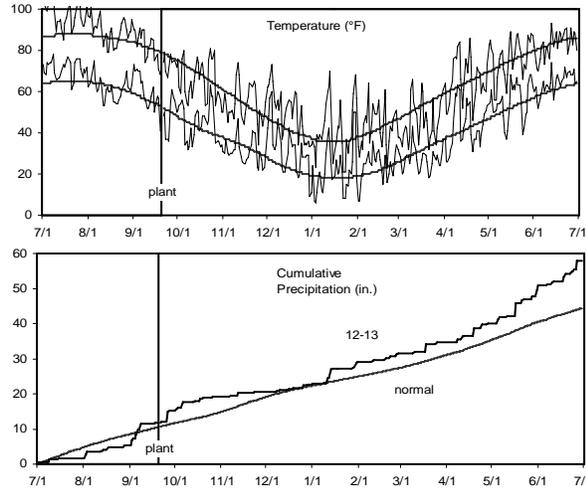


Table 8. Results for the 2013 National Winter Canola Variety Trial at Vincennes, IN

Name	Yield (lb/a) <sup>1,2</sup>			Yield (% of test avg.)			Plant		Test			
	2013	2011	2-yr.	2013	2013	2011	2-yr.	height (in.)	Lodging (%)	weight (lb/bu)	Protein (%)	Oil (%)
<b>Bayer CropScience</b>												
RG29101	2082	---	---	85	100	---	---	44	88	47.3	24.8	36.5
RG29102	2297	---	---	94	100	---	---	43	88	48.4	23.9	39.2
<b>CROPLAN by WinField</b>												
HyCLASS 115W	2094	735	1414	86	100	---	---	48	53	46.5	26.6	39.5
HyCLASS 125W	1746	1095	1420	71	100	---	---	49	50	46.5	25.7	40.6
<b>DL Seeds Inc. / Rubisco Seeds LLC</b>												
Baldur	2624	<b>1410</b>	2017	107	100	---	---	53	10	47.9	24.8	40.2
Dimension	2638	1040	1839	108	100	---	---	56	0	47.5	24.5	42.6
Dynastie	2477	1245	1861	101	100	---	---	51	30	46.6	23.6	41.4
Edimax	<b>3262</b>	---	---	133	100	---	---	47	73	48.5	23.7	39.3
Flash	<b>2881</b>	1220	2051	118	100	---	---	50	40	47.2	23.8	41.9
Hornet	2387	1210	1799	98	99	---	---	47	63	47.1	24.2	40.3
Inspiration	<b>2920</b>	---	---	119	100	---	---	46	78	45.3	23.6	41.4
NPZ 1005	<b>3308</b>	---	---	135	100	---	---	49	38	46.0	22.4	<b>44.5</b>
Rumba	<b>3024</b>	---	---	124	100	---	---	52	10	47.5	24.9	38.9
Safran	<b>2781</b>	<b>1795</b>	2288	114	100	---	---	54	5	46.9	24.1	40.1
Sitro	<b>3025</b>	<b>1295</b>	2160	124	100	---	---	55	13	48.1	24.8	39.2
Visby	<b>2771</b>	<b>1915</b>	2343	113	100	---	---	52	30	46.0	24.2	41.0
<b>DuPont Pioneer</b>												
46W94	2628	---	---	107	100	---	---	51	35	46.8	23.4	42.0
46W99	2681	---	---	110	100	---	---	55	23	48.3	24.9	40.3
Pioneer Exp1	<b>2762</b>	---	---	113	100	---	---	50	30	46.9	24.0	<b>43.6</b>
Pioneer Exp2	2205	---	---	90	100	---	---	48	58	46.7	23.9	42.1
Pioneer Exp3	2145	---	---	88	100	---	---	51	30	46.5	24.6	40.8
Pioneer Exp4	2611	---	---	107	100	---	---	53	0	48.1	25.1	<b>43.0</b>
<b>High Plains Crop Development</b>												
Claremore	2563	<b>1460</b>	2012	105	100	---	---	40	98	45.1	26.8	39.5
HPX-7228	2357	1255	1806	96	99	---	---	41	88	45.9	25.5	38.7
HPX-7341	2383	<b>1325</b>	1854	97	98	---	---	46	45	46.1	26.2	39.9
<b>Kansas State University</b>												
KS4428	2005	835	1420	82	100	---	---	49	60	46.6	25.3	39.2
KS4476	2172	---	---	89	98	---	---	50	50	46.7	26.2	39.2
KSR07363	1930	---	---	79	100	---	---	51	68	47.7	26.0	38.0
KSUR21	2184	---	---	89	99	---	---	56	5	48.2	26.1	39.5
Riley	1660	<b>1505</b>	1583	68	99	---	---	49	58	46.5	26.0	40.4
Sumner	2369	1015	1692	97	100	---	---	49	63	47.8	25.8	40.4
Wichita	2268	1280	1774	93	100	---	---	46	73	47.7	26.1	40.6

**Table 8. Results for the 2013 National Winter Canola Variety Trial at Vincennes, IN**

Name	Yield (lb/a) <sup>1,2</sup>			Yield (% of test avg.)				Plant height (in.)	Lodging (%)	Test weight (lb/bu)	Protein (%)	Oil (%)
	2013	2011	2-yr.	2013	2013	2011	2-yr.					
<b>MOMONT, France</b>												
Chrome	<b>3002</b>	<b>1665</b>	2333	123	99	---	---	49	23	46.1	24.0	41.1
MH07J14	2530	---	---	103	100	---	---	47	73	48.6	24.7	39.8
MH09E3	<b>3298</b>	---	---	135	100	---	---	49	38	46.9	23.2	41.6
MH09H19	<b>2993</b>	---	---	122	100	---	---	55	23	48.9	24.6	40.5
<b>Monsanto / DEKALB</b>												
DKW41-10	1997	1190	1593	82	100	---	---	44	55	48.8	28.1	38.0
DKW44-10	1095	1200	1148	45	100	---	---	47	48	44.3	25.9	37.6
DKW46-15	1699	945	1322	69	100	---	---	48	65	46.4	24.8	41.1
DKW47-15	2069	925	1497	85	100	---	---	46	80	45.9	26.7	39.8
<b>Syngenta</b>												
Gladius	2594	---	---	106	100	---	---	53	30	46.2	23.8	40.6
NK PETROL	2666	---	---	109	100	---	---	56	13	47.0	25.7	39.6
NK Technic	2507	---	---	102	99	---	---	48	53	47.5	24.7	39.3
SY Regata	2201	---	---	90	100	---	---	49	13	46.6	23.5	41.6
<b>Technology Crops International</b>												
Rossini	2457	<b>1680</b>	2069	100	100	---	---	47	60	47.2	---	---
TCI/F13	2485	---	---	102	100	---	---	49	83	46.8	---	---
TCI16	2537	---	---	104	100	---	---	54	33	46.8	---	---
TCI17	<b>2853</b>	---	---	117	100	---	---	49	50	45.6	---	---
<b>Virginia State University</b>												
Virginia	1966	<b>1440</b>	1703	80	99	---	---	48	45	45.9	26.1	38.9
VSX-3	2172	1290	1731	89	100	---	---	49	48	45.1	25.7	38.4
<b>Mean</b>	2447	1270	---	---	100	---	---	49	45	46.9	24.9	40.3
<b>CV</b>	14	28	---	---	1	---	---	6	48	2.1	2.0	2.0
<b>LSD (0.05)</b>	553	620	---	---	NS	---	---	5	36	1.6	1.0	1.6

**Bold:** Superior LSD group. Unless two entries differ by more than the LSD, little confidence can be placed in one being superior to the other.

<sup>1</sup>Use yield data with caution. A CV above 20 indicates higher experimental error. Make variety selection decisions based on more than one year's data.

<sup>2</sup>Yields were adjusted to 10% moisture.

Princeton, Kentucky

Dr. Lloyd Murdock and John James  
University of Kentucky

Planted: 9/21/2012 at 5 lb/a in 7.5-in. rows  
Harvested: 6/19/2013  
Herbicides: 2 pt/a Treflan  
Insecticides: None  
Irrigation: None  
Previous crop: Soybean  
Soil test: 70-196 ppm P-K, pH=6.3  
Fertilizer: 0-40-0-11 lb N-P-K-B fertilizer in fall  
140-0-0 lb N-P-K fertilizer in spring  
Soil type: Pembroke silt loam  
Elevation: 482 ft Latitude: 37° 6'N  
Comments: Normal temperatures and precipitation produced excellent yields.

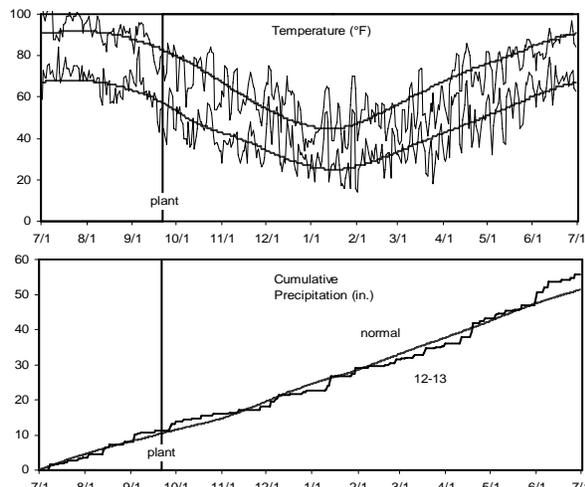


Table 9. Results for the 2013 National Winter Canola Variety Trial at Princeton, KY

Name	Yield (lb/a)			Yield (% of test avg.)			Winter survival (%)		Plant height (in.)	Moisture (%)	50% bloom (DOY)	Protein (%)	Oil (%)
	2013	2012	3-yr.	2013	2012	3-yr.	2013	2012					
<b>Bayer CropScience</b>													
RG29101	2240	---	---	77	---	---	---	---	58	10.5	110	22.6	35.0
RG29102	2810	---	---	97	---	---	---	---	57	9.4	104	21.9	38.3
<b>CROPLAN by WinField</b>													
HyCLASS 115W	2332	1542	1937	80	---	---	---	---	50	8.9	108	22.2	41.1
HyCLASS 125W	2274	1848	2061	78	---	---	---	---	51	10.5	110	22.8	38.6
<b>DL Seeds Inc. / Rubisco Seeds LLC</b>													
Baldur	2522	2689	2605	87	---	---	---	---	56	9.8	109	21.5	38.4
Dimension	2877	---	---	99	---	---	---	---	55	9.2	105	20.5	<b>44.1</b>
Dynastie	2604	<b>2921</b>	2762	90	---	---	---	---	57	11.1	111	21.2	38.8
Edimax	3190	<b>2954</b>	3072	110	---	---	---	---	58	8.9	109	20.3	41.0
Flash	2902	2541	2722	100	---	---	---	---	58	10.0	109	21.7	39.9
Hornet	<b>3853</b>	2867	3360	133	---	---	---	---	59	9.2	109	20.2	<b>42.0</b>
Inspiration	<b>3948</b>	---	---	136	---	---	---	---	56	8.3	109	20.2	41.5
NPZ 1005	<b>3704</b>	2729	3216	128	---	---	---	---	56	9.9	109	21.1	41.6
Rumba	2965	2563	2764	102	---	---	---	---	56	10.5	108	21.0	39.3
Safran	<b>3430</b>	<b>3470</b>	3450	118	---	---	---	---	56	9.9	110	20.8	40.3
Sitro	2859	<b>3044</b>	2952	98	---	---	---	---	58	9.7	109	20.5	<b>41.9</b>
Visby	3112	2745	2929	107	---	---	---	---	54	8.7	109	21.2	39.7
<b>DuPont Pioneer</b>													
46W94	2982	2501	2741	103	---	---	---	---	59	9.6	108	21.2	41.5
46W99	2338	2120	2229	81	---	---	---	---	58	10.6	108	21.6	39.6
Pioneer Exp1	<b>3584</b>	---	---	123	---	---	---	---	54	9.0	109	21.2	<b>43.8</b>
Pioneer Exp2	3279	---	---	113	---	---	---	---	56	9.9	111	20.0	<b>44.2</b>
Pioneer Exp3	2721	---	---	94	---	---	---	---	49	9.4	111	21.6	40.7
Pioneer Exp4	2434	---	---	84	---	---	---	---	51	10.1	111	21.9	39.8
<b>High Plains Crop Development</b>													
Claremore	<b>3334</b>	2253	2794	115	---	---	---	---	54	9.0	112	23.2	40.5
HPX-7228	2642	2002	2322	91	---	---	---	---	49	9.9	104	22.5	38.6
HPX-7341	2462	2210	2336	85	---	---	---	---	52	9.9	109	21.9	40.2
<b>Kansas State University</b>													
KS4428	2100	2749	2425	72	---	---	---	---	55	10.9	108	21.3	40.7
KS4476	2162	---	---	74	---	---	---	---	59	10.4	110	22.1	41.0
KSR07363	2402	---	---	83	---	---	---	---	50	9.4	108	23.1	39.2
KSUR21	2526	---	---	87	---	---	---	---	54	11.3	108	21.9	41.5
Riley	2577	2124	2351	89	---	---	---	---	51	10.4	111	22.7	41.4
Sumner	2840	1718	2279	98	---	---	---	---	51	10.4	110	22.8	<b>41.9</b>
Wichita	3055	1917	2486	105	---	---	---	---	55	10.7	110	21.0	<b>42.4</b>

**Table 9. Results for the 2013 National Winter Canola Variety Trial at Princeton, KY**

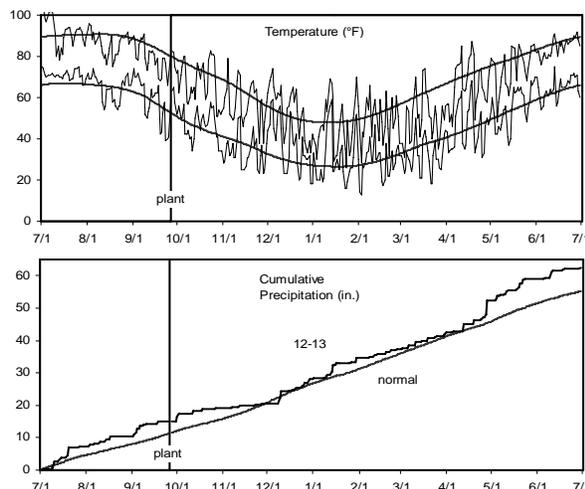
Name	Yield (lb/a)			Yield (% of test avg.)			Winter survival (%)		Plant height (in.)	Moisture (%)	50% bloom (DOY)	Protein (%)	Oil (%)
	2013	2012	3-yr.	2013	2013	2012	3-yr.						
<b>MOMONT, France</b>													
Chrome	<b>3399</b>	<b>3080</b>	3239	117	---	---	---	57	9.1	110	21.2	41.4	
MH07J14	<b>4044</b>	<b>2955</b>	3499	139	---	---	---	57	8.9	110	20.3	<b>42.9</b>	
MH09E3	<b>3602</b>	---	---	124	---	---	---	52	8.6	105	20.6	40.3	
MH09H19	2729	<b>2890</b>	2810	94	---	---	---	58	10.2	109	21.4	<b>41.7</b>	
<b>Monsanto / DEKALB</b>													
DKW41-10	2191	1182	1687	75	---	---	---	42	9.9	103	24.0	38.5	
DKW44-10	2907	1552	2230	100	---	---	---	51	10.8	111	22.3	39.5	
DKW46-15	2545	1966	2255	88	---	---	---	51	9.1	110	22.9	39.8	
DKW47-15	2601	2174	2387	90	---	---	---	53	8.9	110	23.7	38.8	
<b>Syngenta</b>													
Gladius	3310	---	---	114	---	---	---	52	9.8	107	21.7	39.5	
NK PETROL	<b>3539</b>	---	---	122	---	---	---	58	8.5	109	21.6	40.9	
NK Technic	2927	---	---	101	---	---	---	58	9.8	110	20.9	39.8	
SY Regata	2850	---	---	98	---	---	---	53	9.5	108	20.7	41.1	
<b>Virginia State University</b>													
Virginia	3062	2155	2608	105	---	---	---	49	10.1	110	23.0	40.9	
VSX-3	2795	2285	2540	96	---	---	---	50	9.8	109	23.0	39.0	
<b>Mean</b>	2903	2460	---	---	---	---	---	54	9.7	109	21.7	40.5	
<b>CV</b>	16	15	---	---	---	---	---	---	---	---	3.7	3.0	
<b>LSD (0.05)</b>	715	601	---	---	---	---	---	---	---	---	1.6	2.4	

**Bold:** Superior LSD group. Unless two entries differ by more than the LSD, little confidence can be placed in one being superior to the other.

### Springfield, Tennessee

Dennis West  
University of Tennessee

Planted: 9/26/2012 at 6 lb/a in 7-in. rows  
 Harvested: 6/14/2013  
 Herbicides: 6 oz/a Clethodim and 4 oz/a Stinger  
 Insecticides: None  
 Irrigation: None  
 Previous crop: Wheat and clover  
 Soil test: P=M, K=L, and pH=6.7  
 Fertilizer: 30-0-0 lb N-P-K fertilizer in fall  
 101-0-0-23 lb N-P-K-S fertilizer in spring  
 Soil type: Crider silt loam  
 Elevation: 706 ft Latitude: 36° 32'N  
 Comments: Canola varieties compensated well for variable fall stands.



**Table 10. Results for the 2013 National Winter Canola Variety Trial at Springfield, TN**

Name	Yield (lb/a)			Yield (% of test avg.)			Fall stand			Test		
	2013	2012	3-yr.	2013	2013	2012	3-yr.	(%)	Moisture (%)	weight (lb/bu)	Protein (%)	Oil (%)
<b>Bayer CropScience</b>												
RG29101	2682	---	---	106	---	---	---	50	---	51.2	22.2	38.0
RG29102	2995	---	---	119	---	---	---	73	---	50.9	23.0	39.2
<b>CROPLAN by WinField</b>												
HyCLASS 115W	2193	2266	1773	87	---	---	---	47	---	49.2	23.9	42.0
HyCLASS 125W	2348	2535	1999	93	---	---	---	53	---	49.5	23.6	41.5
<b>DL Seeds Inc. / Rubisco Seeds LLC</b>												
Baldur	2761	2540	2207	110	---	---	---	45	---	50.7	21.7	39.6
Dimension	2492	---	---	99	---	---	---	28	---	48.9	21.5	43.6
Dynastie	2576	2955	2572	102	---	---	---	37	---	50.9	21.3	40.9
Edimax	2896	3504	3200	115	---	---	---	60	---	49.9	19.9	43.7
Flash	2552	3334	2594	101	---	---	---	47	---	50.4	20.9	42.3
Hornet	2388	2893	2333	95	---	---	---	25	---	50.4	20.5	42.3
Inspiration	2961	---	---	118	---	---	---	63	---	51.1	21.0	42.2
NPZ 1005	2759	3049	2904	110	---	---	---	43	---	50.0	21.5	43.1
Rumba	3104	2753	2928	123	---	---	---	63	---	50.1	21.3	39.9
Safran	2969	3244	2617	118	---	---	---	23	---	51.0	21.3	40.7
Sitro	2958	3227	2698	117	---	---	---	50	---	50.4	21.7	42.0
Visby	3056	2884	2463	121	---	---	---	65	---	50.2	21.8	40.7
<b>DuPont Pioneer</b>												
46W94	2461	2589	2525	98	---	---	---	53	---	50.0	22.0	41.9
46W99	2065	2849	2457	82	---	---	---	20	---	51.4	21.6	43.1
Pioneer Exp1	2936	---	---	117	---	---	---	67	---	49.1	21.7	44.8
Pioneer Exp2	2984	---	---	118	---	---	---	73	---	49.5	21.1	44.1
Pioneer Exp3	2825	---	---	112	---	---	---	57	---	50.8	21.6	41.4
Pioneer Exp4	2308	---	---	92	---	---	---	23	---	50.9	21.8	41.1
<b>High Plains Crop Development</b>												
Claremore	2264	2830	2547	90	---	---	---	53	---	47.3	23.8	41.5
HPX-7228	2703	2674	2417	107	---	---	---	57	---	51.0	22.5	39.6
HPX-7341	2281	2302	1973	91	---	---	---	67	---	49.8	24.8	40.4
<b>Kansas State University</b>												
KS4428	1603	2317	1908	64	---	---	---	10	---	49.3	21.8	42.1
KS4476	2147	---	---	85	---	---	---	42	---	49.1	23.0	41.7
KSR07363	1817	---	---	72	---	---	---	53	---	49.6	23.3	40.8
KSUR21	1464	---	---	58	---	---	---	13	---	50.8	24.1	42.2
Riley	2546	2397	2096	101	---	---	---	47	---	50.1	23.6	41.3
Sumner	2180	2380	2029	87	---	---	---	37	---	50.3	24.6	40.4
Wichita	2463	2600	2307	98	---	---	---	42	---	49.5	23.6	41.9

**Table 10. Results for the 2013 National Winter Canola Variety Trial at Springfield, TN**

Name	Yield (lb/a)			Yield (% of test avg.)				Winter survival (%)		Fall stand	Moisture	Test weight	Protein	Oil
	2013	2012	3-yr.	2013	2013	2012	3-yr.	(%)	(%)	(lb/bu)	(%)	(%)	(%)	
<b>MOMONT, France</b>														
Chrome	<b>2708</b>	<b>3888</b>	2853	108	---	---	---	32	---	50.8	20.0	<b>44.5</b>		
MH07J14	<b>2952</b>	<b>3589</b>	3271	117	---	---	---	53	---	50.0	20.9	43.0		
MH09E3	<b>2918</b>	---	---	116	---	---	---	57	---	49.5	21.2	42.8		
MH09H19	<b>2893</b>	3086	2990	115	---	---	---	67	---	49.6	21.9	42.1		
<b>Monsanto / DEKALB</b>														
DKW41-10	2190	2312	1958	87	---	---	---	67	---	51.0	25.4	38.4		
DKW44-10	2462	2152	2043	98	---	---	---	60	---	49.8	23.6	38.6		
DKW46-15	2075	2009	1654	82	---	---	---	37	---	49.5	23.3	41.7		
DKW47-15	2059	2670	1858	82	---	---	---	50	---	49.2	23.0	42.1		
<b>Syngenta</b>														
Gladius	<b>2758</b>	---	---	109	---	---	---	55	---	50.4	22.1	39.5		
NK PETROL	<b>3036</b>	---	---	121	---	---	---	53	---	50.2	22.5	41.1		
NK Technic	2122	---	---	84	---	---	---	42	---	50.9	21.9	39.9		
SY Regata	<b>2540</b>	---	---	101	---	---	---	30	---	49.9	20.4	42.6		
<b>Virginia State University</b>														
Virginia	2450	2186	2212	97	---	---	---	43	---	49.3	23.3	40.3		
VSX-3	1975	2792	2246	78	---	---	---	52	---	49.9	23.1	40.7		
<b>Mean</b>	2519	2701	---	---	---	---	---	48	---	50.1	22.3	41.5		
<b>CV</b>	15	14	---	---	---	---	---	30	---	1.8	3.2	2.0		
<b>LSD (0.05)</b>	594	605	---	---	---	---	---	24	---	1.5	1.5	1.7		

**Bold:** Superior LSD group. Unless two entries differ by more than the LSD, little confidence can be placed in one being superior to the other.

**Table 11. Midwest Region Summary Table**

Name	Yield (lb/a)	Number of observations	Oil (%)	Number of observations	Name	Yield (lb/a)	Number of observations	Oil (%)	Number of observations
<b>Bayer CropScience</b>					<b>MOMONT, France</b>				
RG29101	2335	3	37	3	Chrome	2473	25	43	22
RG29102	2701	3	39	3	MH07J14	2938	8	42	6
<b>CROPLAN by WinField</b>					MH09E3	3273	3	42	3
HyCLASS 115W	1746	28	40	26	MH09H19	2747	8	42	6
HyCLASS 125W	1745	10	40	9	<b>Monsanto / DEKALB</b>				
<b>DL Seeds Inc. / Rubisco Seeds LLC</b>					DKW41-10	1609	31	39	28
Baldur	2059	40	41	36	DKW44-10	1587	10	38	9
Dimension	2118	34	43	32	DKW46-15	1659	31	41	28
Dynastie	2423	25	42	22	DKW47-15	1748	31	40	28
Edimax	2867	8	42	6	<b>Syngenta</b>				
Flash	2508	39	42	35	Gladius	2887	3	40	3
Hornet	2246	15	41	13	NK PETROL	3080	3	41	3
Inspiration	3276	3	42	3	NK Technic	2519	3	40	3
NPZ 1005	2696	8	44	6	SY Regata	2530	3	42	3
Rumba	2515	8	41	6	<b>Technology Crops International</b>				
Safran	2615	38	41	35	Rossini	1954	9	41	6
Sitro	2588	40	41	36	TCI/F13	2485	1	---	---
Visby	2242	36	41	32	TCI16	2537	1	---	---
<b>DuPont Pioneer</b>					TCI17	2853	1	---	---
46W94	2516	6	42	5	<b>Virginia State University</b>				
46W99	2367	6	43	5	Virginia	2137	38	40	34
Pioneer Exp1	3094	3	44	3	VSX-3	1900	15	40	13
Pioneer Exp2	2823	3	43	3	<b>Mean<sup>1</sup></b>				
Pioneer Exp3	2563	3	41	3		2131	40	41	36
Pioneer Exp4	2451	3	41	3					
<b>High Plains Crop Development</b>									
Claremore	2185	36	41	32					
HPX-7228	1905	23	41	20					
HPX-7341	1951	23	41	20					
<b>Kansas State University</b>									
KS4428	1891	15	40	13					
KS4476	2160	3	41	3					
KSR07363	2050	3	39	3					
KSUR21	2058	3	41	3					
Riley	2076	36	42	32					
Sumner	2011	38	41	34					
Wichita	2163	38	41	34					

Data averaged over a 6-year period from 2008-2013.

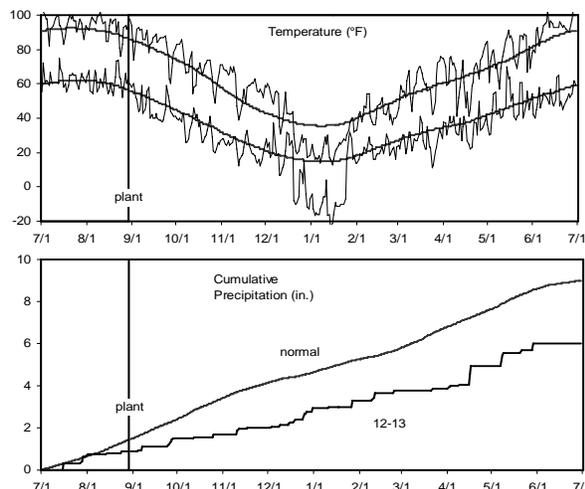
<sup>1</sup>Number of mean observations, not average value of observations per entry.



### Fruita, Colorado

Calvin Pearson  
Colorado State University

Planted: 8/29/2012 at 5 lb/a in 30-in. rows  
Harvested: 7/3/2013  
Herbicides: 1.5 pt/a Treflan  
Insecticides: None  
Irrigation: None  
Previous crop: Wheat  
Soil test: NA  
Fertilizer: 22-104-0 lb N-P-K fertilizer in fall  
50-0-0 lb N-P-K fertilizer in spring  
Soil type: Youngston fine sandy loam  
Elevation: 4604 ft Latitude: 39° 10'N  
Comments: Temperatures were normal except for mid-December through late January. Precipitation was much below normal.



**Table 12. Results for the 2013 National Winter Canola Variety Trial at Fruita, CO**

Name	Yield (lb/a) <sup>1</sup>			Yield (% of test avg.)			Plant height (in.)	Moisture (%)	Test weight (lb/bu)	Protein (%)	Oil (%)
	2013	2010	2-yr.	2013	2013	2010					
<b>Bayer CropScience</b>											
RG29101	2285	---	---	103	---	---	47	6.0	48.8	18.0	42.9
RG29102	2260	---	---	102	---	---	48	4.9	49.6	18.6	43.3
<b>CROPLAN by WinField</b>											
HyCLASS 115W	1717	2256	1987	78	---	---	45	5.6	49.2	19.4	44.8
HyCLASS 125W	1629	---	---	74	---	---	44	5.1	50.0	18.8	43.9
<b>DL Seeds Inc. / Rubisco Seeds LLC</b>											
Baldur	2071	2293	2182	94	---	---	49	5.8	50.4	18.2	44.4
Dimension	2348	2738	2543	106	---	---	50	6.3	50.6	17.6	<b>47.5</b>
Dynastie	<b>2525</b>	2722	2623	114	---	---	51	5.2	51.0	18.0	45.3
Edimax	<b>2449</b>	---	---	111	---	---	49	5.2	50.8	17.1	45.3
Flash	2424	2926	2675	110	---	---	54	6.6	50.4	18.6	46.0
Hornet	2374	---	---	107	---	---	50	5.2	49.8	17.6	45.1
Inspiration	2121	---	---	96	---	---	48	5.4	48.6	17.1	46.1
NPZ 1005	<b>2563</b>	---	---	116	---	---	46	6.0	50.7	17.0	<b>48.0</b>
Rumba	2134	---	---	96	---	---	46	5.6	50.7	17.5	45.3
Safran	2348	2596	2472	106	---	---	51	5.7	49.7	18.4	43.4
Sitro	2235	2749	2492	101	---	---	51	5.1	49.9	17.0	46.1
Visby	<b>2563</b>	3009	2786	116	---	---	48	5.9	47.3	17.5	44.2
<b>DuPont Pioneer</b>											
46W94	2121	---	---	96	---	---	50	4.9	50.6	16.9	<b>46.8</b>
46W99	2348	---	---	106	---	---	53	5.6	50.5	19.7	43.6
Pioneer Exp1	2386	---	---	108	---	---	45	5.6	50.2	18.0	<b>48.6</b>
Pioneer Exp2	<b>2879</b>	---	---	130	---	---	51	7.2	49.4	17.9	<b>48.2</b>
Pioneer Exp3	2197	---	---	99	---	---	42	5.9	50.6	17.7	<b>47.7</b>
Pioneer Exp4	<b>2689</b>	---	---	122	---	---	46	5.3	50.9	18.5	<b>47.0</b>
<b>High Plains Crop Development</b>											
Claremore	1654	2653	2154	75	---	---	49	5.3	47.9	20.6	42.8
HPX-7228	2336	2715	2525	106	---	---	46	5.1	50.2	17.9	43.6
HPX-7341	1490	2682	2086	67	---	---	46	5.1	48.7	19.3	44.4
<b>Kansas State University</b>											
KS4428	<b>2689</b>	---	---	122	---	---	54	5.6	49.2	18.7	44.3
KS4476	1970	---	---	89	---	---	48	5.6	49.7	19.0	44.3
KSR07363	2058	---	---	93	---	---	48	5.6	48.7	18.4	44.5
KSUR21	2045	---	---	92	---	---	52	5.6	50.6	19.0	45.0
Riley	2374	2515	2444	107	---	---	51	6.8	49.0	20.3	43.5
Sumner	1629	2214	1922	74	---	---	43	5.2	50.8	19.7	43.8
Wichita	1995	2443	2219	90	---	---	50	5.4	49.5	20.0	43.8

**Table 12. Results for the 2013 National Winter Canola Variety Trial at Fruita, CO**

Name	Yield (lb/a) <sup>1</sup>			Yield (% of test avg.)				Plant height (in.)	Moisture (%)	Test weight (lb/bu)	Protein (%)	Oil (%)
	2013	2010	2-yr.	2013	2013	2010	2-yr.					
<b>MOMONT, France</b>												
Chrome	<b>2942</b>	2975	2958	133	---	---	---	49	5.4	51.2	17.5	<b>46.5</b>
MH07J14	2210	---	---	100	---	---	---	47	6.0	50.5	17.9	45.9
MH09E3	<b>3005</b>	---	---	136	---	---	---	49	6.3	49.8	18.6	45.1
MH09H19	2247	---	---	102	---	---	---	49	5.6	51.0	17.2	46.0
<b>Monsanto / DEKALB</b>												
DKW41-10	1427	1959	1693	64	---	---	---	38	5.8	49.9	20.5	42.8
DKW44-10	1768	---	---	80	---	---	---	41	5.5	49.8	19.1	42.1
DKW46-15	2045	2188	2117	92	---	---	---	46	4.9	50.2	19.9	44.9
DKW47-15	1477	2022	1750	67	---	---	---	45	5.0	49.0	18.3	44.8
<b>Syngenta</b>												
Gladius	2146	---	---	97	---	---	---	46	5.5	50.9	17.3	44.8
NK PETROL	2361	---	---	107	---	---	---	50	5.4	49.9	18.4	43.9
NK Technic	<b>2841</b>	---	---	128	---	---	---	52	5.7	50.5	18.3	43.0
SY Regata	<b>2752</b>	---	---	124	---	---	---	47	5.2	50.6	16.9	<b>46.2</b>
<b>Technology Crops International</b>												
Rossini	2386	---	---	108	---	---	---	50	4.9	50.2	---	---
TCI/F13	2033	---	---	92	---	---	---	48	5.7	50.8	---	---
TCI16	1692	---	---	76	---	---	---	51	4.6	49.4	---	---
TCI17	2424	---	---	110	---	---	---	53	4.8	49.7	---	---
<b>Virginia State University</b>												
Virginia	2222	2120	2171	100	---	---	---	48	6.3	48.5	19.5	43.1
VSX-3	1755	---	---	79	---	---	---	43	7.0	47.8	18.8	43.8
<b>Mean</b>	2213	2481	---	---	---	---	---	48	5.6	49.9	18.4	44.9
<b>CV</b>	16	22	---	---	---	---	---	7	12.4	1.6	4.5	2.2
<b>LSD (0.05)</b>	571	871	---	---	---	---	---	5	1.1	1.3	1.7	2.0

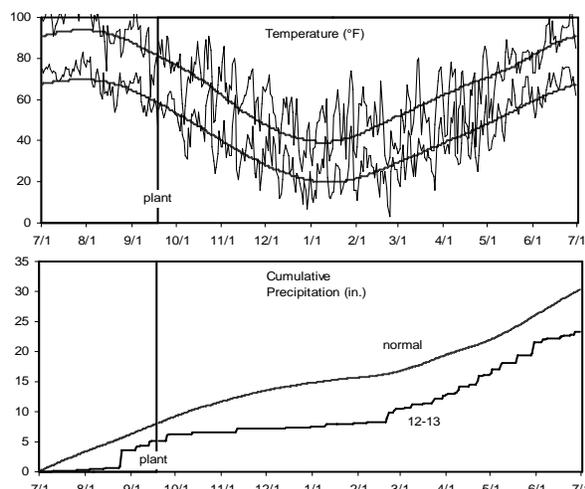
**Bold:** Superior LSD group. Unless two entries differ by more than the LSD, little confidence can be placed in one being superior to the other.

<sup>1</sup>Use yield data with caution. A CV above 20 indicates higher experimental error. Make variety selection decisions based on more than one year's data.

### Andale, Kansas

Brent Gruenbacher and Mike Patry

Planted: 9/18/2012 at 5 lb/a in 9-in. rows  
 Swathed: 6/13/2013  
 Harvested: 6/22/2013  
 Irrigation: None  
 Previous crop: Sorghum  
 Soil test: NA  
 Fertilizer: 36-92-0 lb N-P-K fertilizer in fall  
 73-0-0 lb N-P-K fertilizer in spring  
 Soil type: Blanket silt loam  
 Elevation: 1393 ft Latitude: 37° 47'N  
 Comments: Spotty stands caused by previous crop residue. The canola compensated well and produced excellent yields.



**Table 13. Results for the 2013 National Winter Canola Variety Trial at Andale, KS**

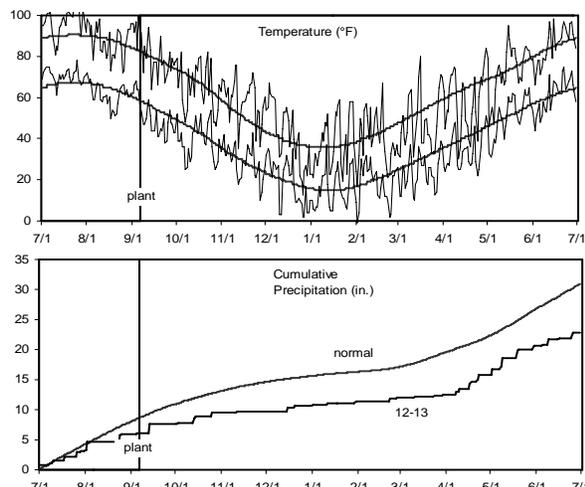
Name	Yield (lb/a)			Yield (% of test avg.)			Winter survival (%)		Plant height (in.)	Moisture (%)	Test weight (lb/bu)	Protein (%)	Oil (%)
	2013	2012	3-yr.	2013	2013	2012	3-yr.						
<b>CROPLAN by WinField</b>													
HyCLASS 115W	2892	---	---	99	---	---	---	49	8.7	50.6	26.7	35.3	
HyCLASS 125W	2614	---	---	90	---	---	---	51	8.8	47.2	26.4	<b>35.9</b>	
<b>DL Seeds Inc. / Rubisco Seeds LLC</b>													
Baldur	2950	---	---	101	---	---	---	49	9.7	50.3	24.9	34.1	
Dimension	<b>3078</b>	---	---	105	---	---	---	47	8.6	48.8	25.5	<b>36.3</b>	
Dynastie	2858	---	---	98	---	---	---	53	9.5	46.6	24.9	<b>35.7</b>	
Flash	2730	---	---	94	---	---	---	55	9.1	48.3	25.5	34.9	
Hornet	2416	---	---	83	---	---	---	51	8.8	49.9	25.5	34.1	
Safran	2799	---	---	96	---	---	---	53	8.9	48.8	26.2	33.5	
Sitro	<b>3032</b>	---	---	104	---	---	---	52	8.6	49.0	25.4	35.3	
Visby	2834	---	---	97	---	---	---	46	9.0	50.9	25.3	<b>35.9</b>	
<b>DuPont Pioneer</b>													
46W94	<b>3148</b>	---	---	108	---	---	---	51	8.5	48.8	24.8	<b>36.4</b>	
46W99	2950	---	---	101	---	---	---	49	8.7	48.3	24.9	<b>36.2</b>	
<b>Kansas State University</b>													
Riley	2823	---	---	97	---	---	---	52	8.3	47.5	26.9	35.2	
Sumner	2590	---	---	89	---	---	---	51	8.2	48.5	27.5	34.9	
Wichita	<b>3067</b>	---	---	105	---	---	---	51	8.9	50.2	27.2	34.8	
<b>MOMONT, France</b>													
Chrome	<b>3380</b>	---	---	116	---	---	---	51	8.8	51.4	25.4	<b>35.5</b>	
<b>Monsanto / DEKALB</b>													
DKW41-10	2590	---	---	89	---	---	---	46	8.3	51.9	29.5	32.7	
DKW44-10	2823	---	---	97	---	---	---	49	8.4	48.8	27.1	32.4	
DKW46-15	2776	---	---	95	---	---	---	47	8.0	48.1	25.9	<b>37.0</b>	
DKW47-15	2544	---	---	87	---	---	---	51	10.1	48.5	27.0	34.5	
<b>Syngenta</b>													
Gladius	<b>3287</b>	---	---	113	---	---	---	51	8.9	50.6	24.2	35.0	
NK PETROL	<b>3218</b>	---	---	110	---	---	---	50	9.4	49.6	26.3	34.5	
NK Technic	<b>3438</b>	---	---	118	---	---	---	47	8.4	49.4	25.0	33.9	
SY Regata	<b>3194</b>	---	---	109	---	---	---	49	9.0	48.2	23.9	<b>35.9</b>	
<b>Mean</b>	2918	---	---	---	---	---	---	50	8.8	49.2	25.9	35.0	
<b>CV</b>	10	---	---	---	---	---	---	9	5.9	4.6	1.6	2.2	
<b>LSD (0.05)</b>	473	---	---	---	---	---	---	NS	0.9	NS	0.9	1.6	

**Bold:** Superior LSD group. Unless two entries differ by more than the LSD, little confidence can be placed in one being superior to the other.

### Belleville, Kansas

Randall Nelson  
Kansas State University

Planted: 9/6/2012 at 5 lb/a in 9-in. rows  
 Swathed: 6/26/2013  
 Harvested: 7/2/2013  
 Herbicides: 1.5 pt/a Treflan and 9 oz/a Assure II  
 Insecticides: None  
 Irrigation: None  
 Previous crop: Wheat  
 Soil test: NA  
 Fertilizer: 75-0-0 lb N-P-K fertilizer in fall  
 75-0-0 lb N-P-K fertilizer in spring  
 Soil type: Crete silt loam  
 Elevation: 1530 ft Latitude: 39° 48'N  
 Comments: Ideal weather at seed fill resulted in excellent yields. No negative effects from late freezes.



**Table 14. Results for the 2013 National Winter Canola Variety Trial at Belleville, KS**

Name	Yield (lb/a)			Yield (% of test avg.)			Plant		Test			
	2013	2012	2-yr.	2013	2013	2012	2-yr.	height (in.)	Moisture (%)	weight (lb/bu)	Protein (%)	Oil (%)
<b>Bayer CropScience</b>												
RG29101	2985	---	---	101	---	---	---	47	6.9	---	23.1	36.3
RG29102	2985	---	---	101	---	---	---	47	7.0	---	23.7	36.8
<b>CROPLAN by WinField</b>												
HyCLASS 115W	2509	3552	3031	85	---	---	---	47	7.0	---	24.2	39.6
HyCLASS 125W	2939	3725	3332	99	---	---	---	49	6.6	---	24.5	39.5
<b>DL Seeds Inc. / Rubisco Seeds LLC</b>												
Baldur	3160	3689	3424	107	---	---	---	47	7.1	---	23.8	36.7
Dimension	3090	---	---	104	---	---	---	49	7.3	---	23.2	40.4
Dynastie	3043	<b>4328</b>	3686	103	---	---	---	51	7.1	---	22.8	40.0
Edimax	2892	3888	3390	98	---	---	---	52	6.8	---	23.0	38.5
Flash	2904	3765	3334	98	---	---	---	51	7.2	---	23.3	38.3
Hornet	2811	3804	3308	95	---	---	---	47	7.0	---	23.2	39.0
Inspiration	3020	---	---	102	---	---	---	50	6.9	---	22.0	39.9
NP Z1005	<b>3403</b>	<b>4846</b>	4125	115	---	---	---	49	7.1	---	21.9	40.2
Rumba	3090	<b>4382</b>	3736	104	---	---	---	45	7.1	---	22.9	37.9
Safran	3078	<b>4392</b>	3735	104	---	---	---	51	6.9	---	22.3	39.5
Sitro	2985	3892	3439	101	---	---	---	46	7.0	---	23.6	38.3
Visby	3136	<b>4174</b>	3655	106	---	---	---	47	7.2	---	22.7	39.4
<b>DuPont Pioneer</b>												
46W94	3113	<b>4249</b>	3681	105	---	---	---	46	7.0	---	23.2	39.7
46W99	2881	3851	3366	97	---	---	---	45	7.3	---	23.2	39.2
Pioneer Exp1	3194	---	---	108	---	---	---	47	7.1	---	23.1	<b>42.6</b>
Pioneer Exp2	<b>3659</b>	---	---	124	---	---	---	47	7.2	---	22.2	<b>42.5</b>
Pioneer Exp3	<b>3299</b>	---	---	112	---	---	---	47	7.1	---	24.5	38.7
Pioneer Exp4	<b>3276</b>	---	---	111	---	---	---	46	7.1	---	24.1	39.7
<b>High Plains Crop Development</b>												
Claremore	2707	3040	2873	92	---	---	---	50	7.2	---	27.2	36.0
HPX-7228	2916	3768	3342	99	---	---	---	45	6.8	---	23.2	38.6
HPX-7341	2753	3910	3331	93	---	---	---	50	7.0	---	25.2	38.2
<b>Kansas State University</b>												
KS4428	2497	4029	3263	84	---	---	---	49	7.3	---	25.0	37.9
KS4476	2916	---	---	99	---	---	---	53	7.6	---	24.6	37.8
KSR07363	2788	---	---	94	---	---	---	45	6.9	---	23.6	38.4
KSUR21	2799	---	---	95	---	---	---	53	7.4	---	25.2	37.7
Riley	2974	<b>4310</b>	3642	101	---	---	---	51	7.2	---	25.2	39.3
Sumner	2451	4063	3257	83	---	---	---	47	7.3	---	25.3	38.8
Wichita	2753	3470	3112	93	---	---	---	47	6.9	---	24.9	38.6

**Table 14. Results for the 2013 National Winter Canola Variety Trial at Belleville, KS**

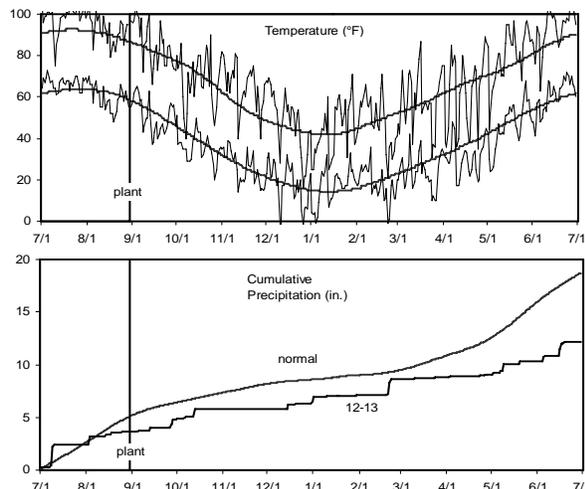
Name	Yield (lb/a)			Yield (% of test avg.)				Plant height (in.)	Moisture (%)	Test weight (lb/bu)	Protein (%)	Oil (%)
	2013	2012	2-yr.	2013	2013	2012	2-yr.					
<b>MOMONT, France</b>												
Chrome	<b>3543</b>	<b>4663</b>	4103	120	---	---	---	47	7.2	---	23.3	39.3
MH07J14	3113	<b>4767</b>	3940	105	---	---	---	49	7.2	---	24.8	38.2
MH09E3	3183	---	---	108	---	---	---	43	6.8	---	23.1	38.9
MH09H19	2939	<b>4719</b>	3829	99	---	---	---	47	7.6	---	22.8	38.9
<b>Monsanto / DEKALB</b>												
DKW41-10	2219	3332	2775	75	---	---	---	39	6.1	---	25.8	37.2
DKW44-10	2869	<b>4296</b>	3583	97	---	---	---	47	7.0	---	25.5	34.8
DKW46-15	2346	3650	2998	79	---	---	---	46	6.2	---	24.3	39.5
DKW47-15	2463	3923	3193	83	---	---	---	49	6.8	---	24.4	40.3
<b>Syngenta</b>												
Gladius	3148	---	---	106	---	---	---	47	7.1	---	21.7	39.2
NK Technic	<b>3345</b>	---	---	113	---	---	---	51	7.3	---	24.1	38.2
NK PETROL	3264	---	---	110	---	---	---	51	7.2	---	23.7	38.2
SY Regata	<b>3287</b>	---	---	111	---	---	---	49	7.3	---	21.4	39.4
<b>Technology Crops International</b>												
Rossini	2765	<b>4306</b>	3535	93	---	---	---	42	6.7	---	---	---
TCI/F13	2834	---	---	96	---	---	---	49	7.1	---	---	---
TCI16	2974	---	---	101	---	---	---	47	7.2	---	---	---
TCI17	3090	---	---	104	---	---	---	51	7.1	---	---	---
<b>Virginia State University</b>												
Virginia	2869	3948	3409	97	---	---	---	46	7.2	---	23.7	38.7
VSX-3	2625	<b>4228</b>	3426	89	---	---	---	46	7.0	---	23.8	38.6
<b>Mean</b>	2958	3978	---	---	---	---	---	48	7.1	---	23.8	38.8
<b>CV</b>	8	11	---	---	---	---	---	8	5.3	---	3.6	2.1
<b>LSD (0.05)</b>	384	735	---	---	---	---	---	6	0.6	---	1.7	1.7

**Bold:** Superior LSD group. Unless two entries differ by more than the LSD, little confidence can be placed in one being superior to the other.

### Garden City, Kansas

Johnathon Holman  
Kansas State University

Planted: 8/30/2012 at 5 lb/a in 8-in. rows  
Harvested: 7/22/2013  
Herbicides: 3 pt/a Prowl  
Insecticides: None  
Irrigation: 15.3 in.  
Previous crop: Corn  
Soil test: N=high, P=10 ppm, pH=7.8  
Fertilizer: 6-26-0-9 lb N-P-K-S fertilizer in fall  
Soil type: Ulysess-Richfield silt loam  
Elevation: 2860 ft Latitude: 37° 99'N  
Comments: See below for comments on variety performance at this location.



**Table 15. Results for the 2013 National Winter Canola Variety Trial at Garden City, KS**

Name	Yield (lb/a) <sup>1</sup>			Yield (% of test avg.)			Plant height (in.)	Fall stand (0-10)	Fall vigor <sup>3</sup> (1-5)	Spring vigor (1-5)	Viable plants <sup>4</sup> (%)
	2013	2012	3-yr.	2013	2012	3-yr.					
<b>Bayer CropScience</b>											
RG29101	---	---	---	---	23	---	24	10.0	5.0	1.0	1.0
RG29102	---	---	---	---	53	---	24	10.0	4.7	2.0	16.7
<b>CROPLAN by WinField</b>											
HyCLASS 115W	---	1541	2059	---	85	100	25	9.7	4.7	3.7	68.3
HyCLASS 125W	---	1453	1861	---	73	100	24	10.0	4.3	3.0	46.7
<b>DL Seeds Inc. / Rubisco Seeds LLC</b>											
Baldur	---	2269	2575	---	60	100	27	10.0	5.0	3.3	16.7
Dimension	---	---	---	---	33	---	24	10.0	5.0	1.0	2.3
Dynastie	---	<b>3224</b>	2817	---	90	100	27	10.0	4.7	4.7	<b>88.3</b>
Edimax	---	3044	---	---	68	100	26	10.0	5.0	2.7	30.0
Flash	---	<b>3175</b>	2485	---	55	100	26	10.0	5.0	2.0	10.0
Hornet	---	<b>3115</b>	2763	---	77	100	28	10.0	5.0	3.3	60.0
Inspiration	---	---	---	---	58	---	26	10.0	5.0	2.7	21.7
NPZ 1005	---	2431	---	---	77	100	29	10.0	5.0	3.3	55.0
Rumba	---	2958	---	---	53	100	23	10.0	5.0	2.3	20.0
Safran	---	<b>3376</b>	3031	---	83	100	28	9.7	4.3	3.7	71.7
Sitro	---	3091	2677	---	62	100	24	9.7	5.0	2.7	38.3
Visby	---	2658	2742	---	68	100	26	10.0	5.0	3.0	41.7
<b>DuPont Pioneer</b>											
46W94	---	2104	---	---	22	100	21	10.0	5.0	1.3	1.7
46W99	---	2248	---	---	40	100	24	9.7	4.7	1.7	13.3
Pioneer Exp1	---	---	---	---	47	---	25	10.0	5.0	1.0	7.0
Pioneer Exp2	---	---	---	---	73	---	25	10.0	5.0	2.3	11.7
Pioneer Exp3	---	---	---	---	96	---	30	10.0	4.7	5.0	95.0
Pioneer Exp4	---	---	---	---	88	---	30	9.3	4.0	4.3	76.7
<b>High Plains Crop Development</b>											
Claremore	---	1613	1998	---	72	100	27	10.0	5.0	1.0	21.7
HPX-7228	---	2345	2647	---	88	100	25	9.3	4.7	3.3	78.3
HPX-7341	---	1836	2439	---	77	100	23	10.0	4.7	3.3	68.3
<b>Kansas State University</b>											
KS4428	---	2203	2561	---	97	100	26	6.0	2.3	4.3	83.3
KS4476	---	---	---	---	97	---	28	9.3	5.0	4.3	86.7
KSR07363	---	---	---	---	93	---	25	9.7	4.0	4.3	85.0
KSUR21	---	---	---	---	95	---	27	8.3	3.3	4.0	83.3
Riley	---	2319	2654	---	98	100	26	9.7	4.0	5.0	96.0
Sumner	---	1664	2307	---	93	100	25	10.0	4.3	4.0	70.0
Wichita	---	2349	2650	---	90	100	27	10.0	5.0	4.0	83.3

**Table 15. Results for the 2013 National Winter Canola Variety Trial at Garden City, KS**

Name	Yield (lb/a) <sup>1</sup>			Yield (% of test avg.)	Winter survival (%) <sup>2</sup>			Plant height (in.)	Fall stand (0-10)	Fall vigor <sup>3</sup> (1-5)	Spring vigor (1-5)	Viable plants <sup>4</sup> (%)
	2013	2012	3-yr.		2013	2012	3-yr.					
<b>MOMONT, France</b>												
Chrome	---	2767	2880	---	65	100	88	24	10.0	<b>5.0</b>	1.3	5.3
MH07J14	---	<b>3507</b>	---	---	42	100	71	29	10.0	<b>5.0</b>	1.7	4.0
MH09E3	---	---	---	---	22	---	---	24	10.0	<b>5.0</b>	1.0	1.0
MH09H19	---	2942	---	---	23	100	62	24	10.0	<b>5.0</b>	1.3	4.0
<b>Monsanto / DEKALB</b>												
DKW41-10	---	1282	1778	---	80	100	93	24	9.7	<b>4.7</b>	2.0	16.7
DKW44-10	---	1339	1765	---	<b>90</b>	100	97	24	10.0	<b>5.0</b>	<b>4.0</b>	70.0
DKW46-15	---	1165	1994	---	<b>96</b>	100	97	22	10.0	4.3	<b>5.0</b>	<b>91.7</b>
DKW47-15	---	1779	1907	---	78	100	93	26	10.0	<b>4.7</b>	3.7	58.3
<b>Syngenta</b>												
Gladius	---	---	---	---	78	---	---	25	10.0	<b>4.7</b>	2.3	46.7
NK PETROL	---	---	---	---	43	---	---	26	10.0	<b>5.0</b>	1.3	7.3
NK Technic	---	---	---	---	73	---	---	28	10.0	<b>5.0</b>	2.0	26.7
SY Regata	---	---	---	---	72	---	---	26	10.0	<b>4.7</b>	2.0	23.7
<b>Technology Crops International</b>												
Rossini	---	2954	2323	---	8	100	69	26	9.7	<b>5.0</b>	1.0	0.7
TCI/F13	---	---	---	---	7	---	---	25	10.0	<b>5.0</b>	1.0	0.7
TCI16	---	---	---	---	5	---	---	28	10.0	<b>5.0</b>	1.0	0.0
TCI17	---	---	---	---	50	---	---	28	10.0	<b>5.0</b>	1.3	13.3
<b>Virginia State University</b>												
Virginia	---	2277	2376	---	65	100	88	25	10.0	<b>5.0</b>	2.3	20.0
VSX-3	---	2117	2241	---	43	100	81	22	10.0	<b>5.0</b>	1.3	7.0
<b>Mean</b>	---	2320	---	---	65	---	---	26	9.8	4.7	2.7	38.9
<b>CV</b>	---	11	---	---	14	---	---	6	3.8	7.6	26.2	34.0
<b>LSD (0.05)</b>	---	408	---	---	15	---	---	3	0.6	0.6	1.1	21.4

**Bold:** Superior LSD group. Unless two entries differ by more than the LSD, little confidence can be placed in one being superior to the other.

<sup>1</sup> Yields for 2013 were negatively affected by winterkill, multiple late spring freezes, and a thunderstorm on 5/8/2013. Hail and wind damage were even across the plot. The 3-yr. average spans 2010 to 2012.

<sup>2</sup> Winter survival is a visual estimation of the percentage of plants that survived the winter. Ratings were taken 5/8/2013 before the severe thunderstorm.

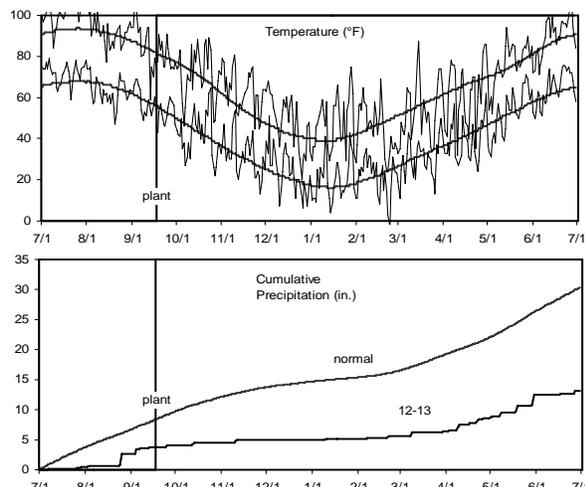
<sup>3</sup> Fall and spring vigor were taken on a scale of 1=least vigorous to 5=most vigorous. Spring vigor was taken on 5/8/2013.

<sup>4</sup> Percentage of viable plants is based on a visual estimation of plants that had survived, resumed active growth, and flowered. It was assumed that these plants would produce harvestable yield before hot temperatures returned to the region. Not all plants that survived the winter were viable.

### Hutchinson, Kansas

Gary Cramer  
Kansas State University

Planted: 9/17/2012 at 5 lb/a in 9-in. rows  
 Swathed: 6/14/2013  
 Harvested: 6/20/2013  
 Herbicides: 1.5 pt/a Treflan and 9 oz/a Assure II  
 Insecticides: None  
 Irrigation: None  
 Previous crop: Wheat  
 Soil test: NA  
 Fertilizer: 50-0-0 lb N-P-K fertilizer in fall  
 75-0-0 lb N-P-K fertilizer in spring  
 Soil type: Funmar-Taver loam  
 Elevation: 1570 ft Latitude: 37° 57'N  
 Comments: The canola responded favorably after late spring freezes. Ideal weather at seed fill resulted in very good yields.



**Table 16. Results for the 2013 National Winter Canola Variety Trial at Hutchinson, KS**

Name	Yield (lb/a) <sup>1</sup>			Yield (% of test avg.)			Winter survival (%)		Fall stand	Moisture	Test weight	Protein	Oil
	2013	2012	3-yr.	2013	2012	3-yr.	(0-10)	(%)	(lb/bu)	(%)	(%)	(%)	
<b>Bayer CropScience</b>													
RG29101	2063	---	---	97	---	---	8	11.8	---	24.4	34.9		
RG29102	2162	---	---	102	---	---	8	10.2	---	24.8	35.1		
<b>CROPLAN by WinField</b>													
HyCLASS 115W	1889	---	---	89	---	---	8	10.5	---	25.3	36.6		
HyCLASS 125W	1723	---	---	81	---	---	7	10.7	---	24.0	36.7		
<b>DL Seeds Inc. / Rubisco Seeds LLC</b>													
Baldur	2172	---	---	103	---	---	6	11.3	---	22.9	36.6		
Dimension	2138	---	---	101	---	---	5	10.7	---	23.7	37.8		
Dynastie	2067	---	---	98	---	---	5	11.7	---	22.3	38.0		
Edimax	1882	---	---	89	---	---	7	11.0	---	23.3	36.7		
Flash	1688	---	---	80	---	---	8	11.9	---	24.7	36.9		
Hornet	2125	---	---	100	---	---	6	11.2	---	24.8	36.0		
Inspiration	2085	---	---	98	---	---	7	10.9	---	23.2	37.7		
NPZ 1005	2381	---	---	112	---	---	7	9.5	---	23.3	38.3		
Rumba	1863	---	---	88	---	---	8	10.7	---	23.1	37.0		
Safran	2179	---	---	103	---	---	4	11.4	---	25.0	36.6		
Sitro	1749	---	---	83	---	---	6	10.5	---	23.3	36.9		
Visby	2079	---	---	98	---	---	6	9.2	---	23.6	37.9		
<b>DuPont Pioneer</b>													
46W94	2201	---	---	104	---	---	7	10.5	---	23.8	37.6		
46W99	2114	---	---	100	---	---	4	10.2	---	24.1	38.2		
Pioneer Exp1	2395	---	---	113	---	---	7	9.5	---	24.1	<b>40.9</b>		
Pioneer Exp2	2765	---	---	131	---	---	8	11.1	---	23.0	39.1		
Pioneer Exp3	<b>3260</b>	---	---	154	---	---	8	11.1	---	22.9	39.0		
Pioneer Exp4	2556	---	---	121	---	---	5	10.6	---	24.0	<b>41.1</b>		
<b>High Plains Crop Development</b>													
Claremore	1850	---	---	87	---	---	8	10.9	---	26.5	35.8		
HPX-7228	1874	---	---	88	---	---	6	9.7	---	24.1	36.8		
HPX-7341	1826	---	---	86	---	---	8	9.1	---	26.5	36.1		
<b>Kansas State University</b>													
KS4428	1902	---	---	90	---	---	2	11.7	---	24.5	37.2		
KS4476	2308	---	---	109	---	---	6	11.4	---	24.2	36.8		
KSR07363	1885	---	---	89	---	---	7	9.6	---	24.6	36.2		
KSUR21	1852	---	---	87	---	---	3	11.2	---	25.0	37.5		
Riley	2035	---	---	96	---	---	8	10.0	---	24.6	37.0		
Sumner	1677	---	---	79	---	---	7	10.5	---	25.9	36.5		
Wichita	1784	---	---	84	---	---	7	10.8	---	25.8	35.1		

**Table 16. Results for the 2013 National Winter Canola Variety Trial at Hutchinson, KS**

Name	Yield (lb/a) <sup>1</sup>			Yield (% of test avg.)			Winter survival (%)		Fall stand	Moisture	Test weight	Protein	Oil
	2013	2012	3-yr.	2013	2013	2012	3-yr.	(0-10)	(%)	(lb/bu)	(%)	(%)	
<b>MOMONT, France</b>													
Chrome	<b>2807</b>	---	---	133	---	---	---	7	11.0	---	24.0	37.3	
MH07J14	2543	---	---	120	---	---	---	8	11.5	---	24.7	38.5	
MH09E3	2653	---	---	125	---	---	---	7	11.3	---	23.4	37.2	
MH09H19	2151	---	---	102	---	---	---	8	10.2	---	24.9	35.8	
<b>Monsanto / DEKALB</b>													
DKW41-10	1462	---	---	69	---	---	---	8	9.8	---	27.9	36.7	
DKW44-10	1877	---	---	89	---	---	---	8	10.2	---	25.4	35.8	
DKW46-15	1653	---	---	78	---	---	---	8	9.9	---	23.8	38.5	
DKW47-15	1756	---	---	83	---	---	---	7	10.2	---	24.3	37.7	
<b>Syngenta</b>													
Gladius	2322	---	---	110	---	---	---	7	9.9	---	24.3	37.4	
NK PETROL	2523	---	---	119	---	---	---	6	10.5	---	25.0	37.0	
NK Technic	2729	---	---	129	---	---	---	7	10.7	---	24.2	35.6	
SY Regata	2378	---	---	112	---	---	---	5	9.6	---	22.6	38.1	
<b>Technology Crops International</b>													
Rossini	1755	---	---	83	---	---	---	7	9.6	---	---	---	
TCI/F13	1910	---	---	90	---	---	---	8	10.8	---	---	---	
TCI16	1963	---	---	93	---	---	---	7	10.7	---	---	---	
TCI17	2115	---	---	100	---	---	---	8	11.6	---	---	---	
<b>Virginia State University</b>													
Virginia	2593	---	---	122	---	---	---	8	10.9	---	24.2	37.7	
VSX-3	2183	---	---	103	---	---	---	8	10.8	---	24.9	37.0	
<b>Mean</b>	2118	---	---	---	---	---	---	7	10.6	---	24.3	37.2	
<b>CV</b>	14	---	---	---	---	---	---	12	8.0	---	3.0	2.2	
<b>LSD (0.05)</b>	482	---	---	---	---	---	---	1	1.4	---	1.5	1.7	

**Bold:** Superior LSD group. Unless two entries differ by more than the LSD, little confidence can be placed in one being superior to the other.

<sup>1</sup>Yields were adjusted to 9% moisture.

### Clovis, New Mexico

Sangu Angadi and Sultan Begna  
New Mexico State University

Planted: 9/6/2012 at 6 lb/a in 6-in. rows  
Harvested: 7/3/2013  
Herbicides: 2 pt/a Treflan HFP and 2 pt/a Prowl H2O  
Insecticides: Lannite, Baythroid XL, Prevethon, Trimax Pro, Dimethoate, Brigade  
Irrigation: 23.4 in.  
Previous crop: Corn  
Soil test: 29-17-456 ppm N-P-K, pH=7.5  
Fertilizer: 70-25-0-11 lb N-P-K-S fertilizer in fall  
Soil type: Olton clay loam  
Elevation: 4437 ft Latitude: 34° 36'N  
Comments: Repeated late spring freezes reduced the height of the canola, but yields were excellent in a dry year.

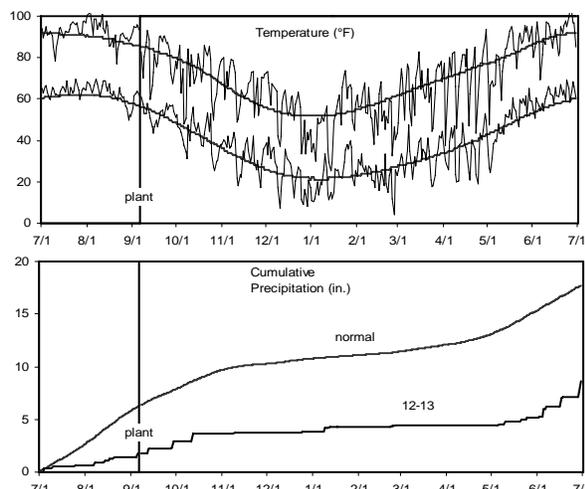


Table 17. Results for the 2013 National Winter Canola Variety Trial at Clovis, NM

Name	Yield (lb/a)			Yield (% of test avg.)			Winter survival (%)		Plant height (in.)	Moisture (%)	Test weight (lb/bu)	Protein (%)	Oil (%)
	2013	2012	3-yr.	2013	2013	2012	3-yr.						
<b>Bayer CropScience</b>													
RG29101	2385	---	---	88	98	---	---	33	---	46.7	28.4	33.9	
RG29102	2392	---	---	88	98	---	---	30	---	45.8	29.9	33.3	
<b>CROPLAN by WinField</b>													
HyCLASS 115W	2519	2662	2114	93	98	96	96	35	---	46.7	29.2	36.7	
HyCLASS 125W	2323	2567	2087	86	98	97	96	32	---	44.8	28.8	<b>36.8</b>	
<b>DL Seeds Inc. / Rubisco Seeds LLC</b>													
Baldur	2678	2631	2425	99	98	97	97	31	---	45.9	28.3	33.8	
Dimension	2759	---	---	102	98	---	---	35	---	47.7	27.2	<b>38.7</b>	
Dynastie	<b>2984</b>	2976	2651	110	98	97	97	32	---	44.6	27.7	<b>37.2</b>	
Edimax	2682	<b>3624</b>	3153	99	95	---	---	36	---	46.4	27.0	<b>37.6</b>	
Flash	2187	<b>3505</b>	2499	81	98	98	96	37	---	43.4	28.7	36.5	
Hornet	2307	<b>3214</b>	2487	85	98	97	97	37	---	44.0	27.2	36.4	
Inspiration	2620	---	---	97	98	---	---	37	---	46.2	29.8	35.4	
NPZ 1005	<b>3494</b>	2042	2768	129	98	98	98	37	---	48.9	26.4	<b>39.4</b>	
Rumba	2886	2584	2735	107	98	98	98	34	---	47.1	27.2	<b>37.4</b>	
Safran	<b>3060</b>	<b>3930</b>	3082	113	95	95	94	34	---	43.7	26.9	<b>37.7</b>	
Sitro	2795	<b>3437</b>	2791	103	98	96	96	35	---	45.1	26.5	<b>37.9</b>	
Visby	2551	2976	2493	94	98	97	97	33	---	44.9	28.9	36.5	
<b>DuPont Pioneer</b>													
46W94	<b>3296</b>	2270	2783	122	98	98	98	34	---	47.2	27.4	<b>36.9</b>	
46W99	2675	1994	2335	99	98	98	98	35	---	46.6	27.5	<b>38.3</b>	
Pioneer Exp1	<b>3244</b>	---	---	120	98	---	---	34	---	47.5	28.3	<b>39.7</b>	
Pioneer Exp2	<b>3219</b>	---	---	119	98	---	---	37	---	46.7	28.4	<b>37.8</b>	
Pioneer Exp3	<b>3024</b>	---	---	112	98	---	---	35	---	48.4	27.5	<b>38.3</b>	
Pioneer Exp4	2525	---	---	93	98	---	---	35	---	47.1	28.7	<b>38.3</b>	
<b>High Plains Crop Development</b>													
Claremore	2404	2388	2396	89	95	98	97	34	---	47.6	29.4	36.6	
HPX-7228	<b>3086</b>	2923	2627	114	98	96	96	34	---	47.6	26.6	36.5	
HPX-7341	2533	2464	2283	94	98	95	96	36	---	47.5	27.4	<b>38.4</b>	
<b>Kansas State University</b>													
KS4428	2864	2500	2480	106	98	97	97	36	---	48.0	27.9	<b>37.0</b>	
KS4476	2789	---	---	103	98	---	---	34	---	46.7	28.8	36.6	
KSR07363	2177	---	---	80	98	---	---	28	---	46.9	27.4	<b>36.8</b>	
KSUR21	2515	---	---	93	98	---	---	34	---	46.8	29.7	36.1	
Riley	2814	2407	2483	104	98	95	94	33	---	46.3	28.0	<b>38.6</b>	
Sumner	2448	2178	2222	90	98	97	96	33	---	46.3	29.6	35.5	
Wichita	2763	2017	2174	102	98	97	97	35	---	48.0	27.3	<b>38.1</b>	

**Table 17. Results for the 2013 National Winter Canola Variety Trial at Clovis, NM**

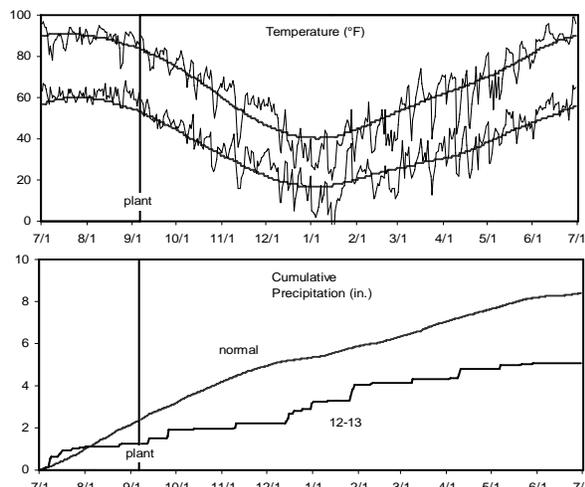
Name	Yield (lb/a)			Yield (% of test avg.)			Winter survival (%)		Plant height (in.)	Moisture (%)	Test weight (lb/bu)	Protein (%)	Oil (%)
	2013	2012	3-yr.	2013	2013	2012	3-yr.						
<b>MOMONT, France</b>													
Chrome	2781	2901	2592	103	98	98	96	33	---	43.6	29.5	35.1	
MH07J14	<b>2991</b>	<b>3488</b>	3239	111	98	98	98	35	---	45.2	27.2	<b>39.3</b>	
MH09E3	2433	---	---	90	98	---	---	31	---	44.9	28.3	34.2	
MH09H19	2872	2672	2772	106	98	98	98	37	---	45.8	29.9	33.4	
<b>Monsanto / DEKALB</b>													
DKW41-10	1680	1563	1284	62	98	98	97	30	---	46.6	31.9	33.8	
DKW44-10	2744	2350	2175	101	98	97	97	33	---	45.5	29.3	33.8	
DKW46-15	2457	2320	2219	91	98	95	95	31	---	45.9	28.3	<b>37.8</b>	
DKW47-15	2270	2768	2116	84	98	95	96	37	---	47.0	29.2	36.3	
<b>Syngenta</b>													
Gladius	<b>3086</b>	---	---	114	96	---	---	37	---	48.5	27.1	<b>37.9</b>	
NK PETROL	<b>3002</b>	---	---	111	98	---	---	35	---	47.9	28.6	<b>37.5</b>	
NK Technic	<b>3155</b>	---	---	117	98	---	---	37	---	46.5	27.9	36.2	
SY Regata	<b>3354</b>	---	---	124	98	---	---	35	---	47.3	26.7	<b>38.7</b>	
<b>Technology Crops International</b>													
Rossini	2824	<b>3208</b>	2499	104	98	98	96	38	---	46.3	---	---	
TCI/F13	<b>3049</b>	---	---	113	98	---	---	36	---	46.7	---	---	
TCI16	2462	---	---	91	98	---	---	38	---	45.9	---	---	
TCI17	2468	---	---	91	98	---	---	38	---	43.6	---	---	
<b>Virginia State University</b>													
Virginia	2610	2753	2287	96	98	97	96	32	---	45.1	28.2	<b>37.1</b>	
VSX-3	2091	<b>3270</b>	2206	77	98	95	95	31	---	43.5	29.5	36.1	
<b>Mean</b>	2707	2708	---	---	98	97	---	34	---	46.3	28.2	36.8	
<b>CV</b>	12	19	---	---	0	1	---	6	---	2.8	3.7	3.9	
<b>LSD (0.05)</b>	527	849	---	---	0	2	---	3	---	2.1	2.1	2.9	

**Bold:** Superior LSD group. Unless two entries differ by more than the LSD, little confidence can be placed in one being superior to the other.

### Farmington, New Mexico

Curtis Owen and Mick O'Neill  
New Mexico State University

Planted: 9/6/2012 at 5 lb/a in 10-in. rows  
Harvested: 7/18/2013  
Herbicides: None  
Insecticides: None  
Irrigation: 24.2 in.  
Previous crop: Potatoes  
Soil test: NA  
Fertilizer: 20-104-120-36 lb N-P-K-S fertilizer in fall  
185-0-0 lb N-P-K fertilizer in spring  
Soil type: Doak sandy loam  
Elevation: 5640 ft Latitude: 36°N  
Comments: Winter survival was poorer in strips where pigweed was not controlled until final disking. Very good yields reported.



**Table 18. Results for the 2013 National Winter Canola Variety Trial at Farmington, NM**

Name	Yield (lb/a)			Yield (% of test avg.)			Plant			Test		
	2013	2012	3-yr.	2013	2013	2012	3-yr.	height (in.)	Moisture (%)	weight (lb/bu)	Protein (%)	Oil (%)
<b>Bayer CropScience</b>												
RG29101	2813	---	---	96	95	100	98	44	6.5	49.3	27.9	34.7
RG29102	3023	---	---	103	93	100	97	43	7.6	49.6	28.8	<b>37.1</b>
<b>CROPLAN by WinField</b>												
HyCLASS 115W	2712	3971	2818	92	95	100	98	41	6.9	47.5	28.7	<b>37.4</b>
HyCLASS 125W	2582	3667	2857	88	81	100	91	41	6.8	48.2	28.6	36.6
<b>DL Seeds Inc. / Rubisco Seeds LLC</b>												
Baldur	2704	4264	3251	92	84	100	92	42	8.3	49.3	28.5	<b>37.1</b>
Dimension	<b>3239</b>	---	---	110	88	100	94	44	8.3	47.3	28.2	<b>36.9</b>
Dynastie	<b>3417</b>	<b>5240</b>	3855	116	94	100	97	42	6.0	49.0	27.4	<b>37.4</b>
Edimax	2938	<b>4768</b>	3853	100	93	100	97	42	6.5	48.5	27.7	<b>38.1</b>
Flash	2952	4332	3555	100	70	100	85	40	8.1	45.6	29.5	36.7
Hornet	<b>3800</b>	<b>4533</b>	3793	129	94	100	97	45	6.0	50.0	28.4	<b>37.6</b>
Inspiration	<b>3572</b>	---	---	121	94	100	97	42	6.9	50.0	29.0	<b>37.0</b>
NPZ 1005	2615	<b>4808</b>	3711	89	92	100	96	44	6.7	46.2	27.7	<b>37.8</b>
Rumba	2803	4039	3421	95	88	100	94	44	7.3	48.8	28.5	36.0
Safran	<b>3765</b>	<b>5026</b>	4076	128	93	100	96	43	6.0	46.5	27.8	36.7
Sitro	<b>3946</b>	<b>4725</b>	3926	134	86	100	93	41	6.3	46.8	28.7	<b>37.9</b>
Visby	<b>3981</b>	<b>4750</b>	3856	135	98	100	99	43	6.6	46.0	28.5	<b>37.7</b>
<b>DuPont Pioneer</b>												
46W94	<b>3065</b>	<b>4547</b>	3806	104	91	100	96	44	7.1	49.3	28.9	<b>36.8</b>
46W99	2890	4256	3573	98	91	100	95	45	7.0	49.2	28.3	<b>37.7</b>
Pioneer Exp1	2854	---	---	97	62	100	81	38	6.9	49.2	29.1	<b>37.5</b>
Pioneer Exp2	2329	---	---	79	88	100	94	46	7.3	46.1	28.1	<b>38.0</b>
Pioneer Exp3	2388	---	---	81	78	100	89	38	7.5	49.7	28.4	<b>37.8</b>
Pioneer Exp4	2849	---	---	97	89	100	94	44	6.8	44.7	29.4	<b>37.8</b>
<b>High Plains Crop Development</b>												
Claremore	2507	3576	3042	85	71	100	86	44	6.7	48.9	29.7	<b>37.2</b>
HPX-7228	2709	3412	2924	92	89	100	95	43	6.7	46.8	28.4	35.7
HPX-7341	2893	4205	3315	98	92	100	96	40	6.9	45.7	29.1	<b>38.0</b>
<b>Kansas State University</b>												
KS4428	2741	4311	3221	93	85	100	92	45	7.4	46.5	29.0	<b>37.0</b>
KS4476	2798	---	---	95	97	100	99	44	6.9	45.2	28.9	36.3
KSR07363	2709	---	---	92	69	100	85	40	6.2	47.9	28.0	<b>36.8</b>
KSUR21	2413	---	---	82	81	100	90	45	7.3	48.7	29.1	<b>37.9</b>
Riley	2883	<b>4429</b>	3198	98	88	100	94	39	7.4	48.2	29.5	<b>37.6</b>
Sumner	2906	3433	2823	99	96	100	98	41	6.5	48.8	29.7	<b>37.1</b>
Wichita	2679	4156	3089	91	84	100	92	42	7.4	48.8	28.9	36.4

**Table 18. Results for the 2013 National Winter Canola Variety Trial at Farmington, NM**

Name	Yield (lb/a)			Yield (% of test avg.)				Plant height (in.)	Moisture (%)	Test weight (lb/bu)	Protein (%)	Oil (%)
	2013	2012	3-yr.	2013	2013	2012	3-yr.					
<b>MOMONT, France</b>												
Chrome	<b>3347</b>	4135	3384	114	90	100	95	43	7.1	49.0	28.7	<b>37.6</b>
MH07J14	<b>3423</b>	<b>5324</b>	4374	116	93	100	96	46	6.7	49.0	28.7	<b>37.5</b>
MH09E3	2992	---	---	102	56	100	78	43	8.8	46.0	28.9	<b>38.3</b>
MH09H19	2583	<b>4948</b>	3765	88	85	100	93	44	7.8	49.2	28.3	36.6
<b>Monsanto / DEKALB</b>												
DKW41-10	2135	3196	2376	73	86	100	93	39	6.9	43.1	29.8	35.7
DKW44-10	2556	3915	2912	87	87	100	94	38	7.6	45.7	29.2	34.9
DKW46-15	1836	3548	2508	62	93	100	96	39	7.6	46.0	28.4	<b>37.1</b>
DKW47-15	2692	3839	2983	92	71	100	86	39	6.2	44.5	29.0	36.2
<b>Syngenta</b>												
Gladius	<b>3411</b>	---	---	116	98	100	99	42	6.6	43.3	28.2	<b>38.2</b>
NK PETROL	<b>3419</b>	---	---	116	91	100	96	45	7.6	49.2	29.5	<b>37.1</b>
NK Technic	<b>3422</b>	---	---	116	90	100	95	42	8.0	49.7	28.6	<b>37.0</b>
SY Regata	2664	---	---	91	71	100	86	44	8.4	47.2	28.7	<b>37.3</b>
<b>Technology Crops International</b>												
Rossini	<b>3582</b>	4025	3449	122	91	100	96	45	5.8	49.4	---	---
TCI/F13	<b>3027</b>	---	---	103	87	100	94	41	7.1	45.9	---	---
TCI16	2840	---	---	97	96	100	98	47	7.2	45.4	---	---
TCI17	2800	---	---	95	73	100	86	42	6.3	43.1	---	---
<b>Virginia State University</b>												
Virginia	<b>3375</b>	3910	3324	115	78	100	89	42	6.7	47.7	29.1	36.0
VSX-3	2513	4002	3163	85	99	100	100	41	7.1	46.6	28.9	36.6
<b>Mean</b>	2942	4231	---	---	87	100	---	42	7.0	47.5	28.7	37.1
<b>CV</b>	20	14	---	---	133	0	---	7	12.6	6.3	2.4	2.1
<b>LSD (0.05)</b>	967	977	---	---	29	NS	---	5	1.4	4.9	NS	1.6

**Bold:** Superior LSD group. Unless two entries differ by more than the LSD, little confidence can be placed in one being superior to the other.

<sup>1</sup>Use yield data with caution. A CV above 20 indicates higher experimental error. Make variety selection decisions based on more than one year's data.

**Table 19. Great Plains Region Summary Table**

Name	Yield (lb/a)	Number of observations	Oil (%)	Number of observations	Name	Yield (lb/a)	Number of observations	Oil (%)	Number of observations
<b>Bayer CropScience</b>					<b>MOMONT, France</b>				
RG29101	2506	5	37	5	Chrome	2634	36	40	34
RG29102	2564	5	37	5	MH07J14	2888	16	40	15
<b>CROPLAN by WinField</b>					MH09E3	2853	5	39	5
HyCLASS 115W	1879	58	39	58	MH09H19	2843	16	39	15
HyCLASS 125W	2018	26	39	24	<b>Monsanto / DEKALB</b>				
<b>DL Seeds Inc. / Rubisco Seeds LLC</b>					DKW41-10	1614	61	38	60
Baldur	2156	61	39	59	DKW44-10	2124	26	37	24
Dimension	2032	48	40	49	DKW46-15	1855	61	40	60
Dynastie	2576	35	40	33	DKW47-15	1851	61	39	60
Edimax	2709	17	39	15	<b>Syngenta</b>				
Flash	2147	63	39	62	Gladius	2900	6	39	6
Hornet	2482	25	39	23	NK PETROL	2964	6	38	6
Inspiration	2684	5	39	5	NK Technic	3155	6	37	6
NPZ 1005	2877	14	41	13	SY Regata	2938	6	39	6
Rumba	2590	17	39	15	<b>Technology Crops International</b>				
Safran	2425	64	39	63	Rossini	2455	24	40	17
Sitro	2365	64	39	63	TCI/F13	2571	5	---	---
Visby	2334	57	39	55	TCI16	2386	5	---	---
<b>DuPont Pioneer</b>					TCI17	2580	5	---	---
46W94	2660	18	40	16	<b>Virginia State University</b>				
46W99	2430	18	39	15	Virginia	2026	55	38	54
Pioneer Exp1	2815	5	42	5	VSX-3	2346	20	38	19
Pioneer Exp2	2970	5	41	5	<b>Mean<sup>1</sup></b>				
Pioneer Exp3	2833	5	40	5		2076	65	39	64
Pioneer Exp4	2779	5	41	5					
<b>High Plains Crop Development</b>									
Claremore	1939	57	39	54					
HPX-7228	2429	33	39	32					
HPX-7341	2281	33	39	32					
<b>Kansas State University</b>									
KS4428	2506	20	39	19					
KS4476	2556	5	38	5					
KSR07363	2323	5	39	5					
KSUR21	2325	5	39	5					
Riley	2214	62	40	60					
Sumner	1887	63	39	62					
Wichita	2058	65	39	64					

Data averaged over a 6-year period from 2008-2013.

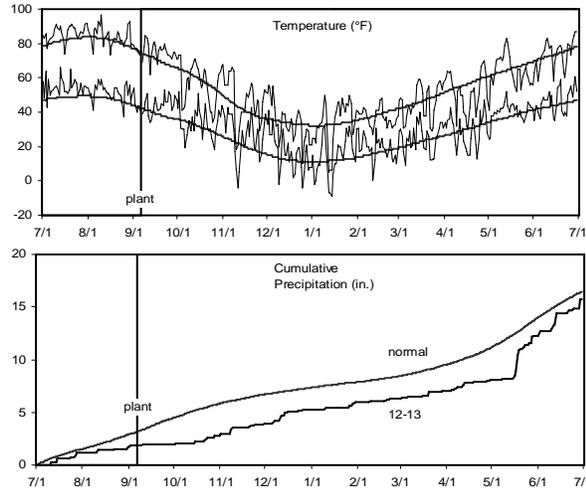
<sup>1</sup>Number of mean observations, not average value of observations per entry.



**Bozeman, Montana**

Perry Miller and Jeffery Holmes  
Montana State University

Planted: 9/6/2012 at 5 lb/a in 9-in. rows  
Harvested: 8/5/2013  
Herbicides: Glystar  
Insecticides: 2 oz/a Warrior  
Irrigation: 2 in.  
Previous crop: Barley  
Soil test: NA  
Fertilizer: 180-0-0 lb N-P-K fertilizer in fall  
Soil type: Amsterdam silt loam  
Elevation: 4775 ft Latitude: 45° 40'N  
Comments: Precipitation in May coincided with flowering and grain fill, producing excellent yields at this location.



**Table 20. Results for the 2013 National Winter Canola Variety Trial at Bozeman, MT**

Name	Yield (lb/a)			Yield (% of test avg.)			Winter survival (%)		Plant height (in.)	Moisture (%)	Test		
	2013	2011	2-yr.	2013	2013	2011	2-yr.	weight (lb/bu)			Protein (%)	Oil (%)	
<b>CROPLAN by WinField</b>													
HyCLASS 115W	2990	<b>3414</b>	3202	98	---	---	---	---	---	---	---	25.5	<b>38.0</b>
HyCLASS 125W	<b>3080</b>	3226	3153	101	---	---	---	---	---	---	---	25.6	<b>37.6</b>
<b>DuPont Pioneer</b>													
46W94	2860	---	---	93	---	---	---	---	---	---	---	24.0	<b>38.6</b>
46W99	2770	---	---	90	---	---	---	---	---	---	---	26.1	34.9
<b>Kansas State University</b>													
KSR07352S	<b>3090</b>	---	---	101	---	---	---	---	---	---	---	24.8	<b>37.0</b>
KSR07363	<b>3265</b>	---	---	107	---	---	---	---	---	---	---	24.8	<b>37.8</b>
KSR4647	2925	---	---	95	---	---	---	---	---	---	---	25.1	36.5
KSR4648S	3015	---	---	98	---	---	---	---	---	---	---	25.9	36.1
KSR4649S	3030	---	---	99	---	---	---	---	---	---	---	24.7	<b>36.9</b>
KSR4650	<b>3310</b>	---	---	108	---	---	---	---	---	---	---	24.8	<b>38.3</b>
<b>Monsanto / DEKALB</b>													
DKW41-10	2915	2813	2864	95	---	---	---	---	---	---	---	26.6	36.0
DKW44-10	<b>3135</b>	<b>3643</b>	3389	102	---	---	---	---	---	---	---	25.6	33.5
DKW46-15	<b>3365</b>	3107	3236	110	---	---	---	---	---	---	---	24.3	<b>38.0</b>
DKW47-15	<b>3155</b>	<b>3299</b>	3227	103	---	---	---	---	---	---	---	26.3	35.8
<b>Mean</b>	3065	3110	---	---	---	---	---	---	---	---	---	25.3	36.8
<b>CV</b>	7	8	---	---	---	---	---	---	---	---	---	2.2	2.4
<b>LSD (0.05)</b>	315	377	---	---	---	---	---	---	---	---	---	1.2	1.9

**Bold:** Superior LSD group. Unless two entries differ by more than the LSD, little confidence can be placed in one being superior to the other.



**Table 21. Field Ratings for Resistance to Blackleg (*Leptosphaeria maculans*)****National Winter Canola Variety Trial**

Lake Carl Blackwell, OK - 2012

Perkins, OK - 2013

John Damicone, Oklahoma State University

Name	Incidence <sup>1</sup>		Severity <sup>2</sup>		Name	Incidence		Severity	
	2012	2013	2012	2013		2012	2013	2012	2013
<b>Bayer CropScience</b>					<b>MOMONT / Photosyntech</b>				
RG29101	---	87	---	2.3	Chrome	54	47	1.2	1.1
RG29102	---	93	---	2.8	MH09E3	---	90	---	1.5
<b>Croplan by WinField</b>					MH07J14	51	70	0.8	1.4
HyCLASS 115W	82	93	1.9	3.4	MH09H19	53	80	0.9	2.0
HyCLASS 125W	65	93	1.5	2.8	<b>Monsanto / DEKALB</b>				
<b>DL Seeds Inc. / Rubisco Seeds</b>					DKW41-10	60	97	0.9	2.9
Baldur	51	83	0.9	2.3	DKW44-10	72	93	1.8	2.9
Dimension	---	73	---	2.0	DKW46-15	64	80	1.4	2.3
Dynastie	61	73	1.2	1.5	DKW47-15	79	97	1.4	3.0
Edimax CL	48	77	1.0	1.7	<b>Syngenta</b>				
Flash	64	87	1.2	2.1	Gladius	---	70	---	1.5
Hornet	77	93	1.5	1.9	NK PETROL	---	97	---	2.6
Inspiration	---	77	---	1.9	NK Technic	---	93	---	2.3
NPZ 1005	52	83	1.2	1.9	SY Regata	---	77	---	2.2
Rumba	68	70	1.6	2.0	<b>Technology Crops International</b>				
Safran	49	67	1.3	1.4	Rossini	62	80	0.4	1.5
Sitro	64	97	1.1	2.2	TCI16	---	80	---	1.9
Visby	66	93	1.6	2.2	TCI17	---	73	---	1.9
<b>DuPont Pioneer</b>					TCI/F13	---	67	---	1.8
46W94	88	87	2.3	2.4	<b>Virginia State University</b>				
46W99	66	87	1.7	2.2	Virginia	40	80	0.7	2.5
Pioneer Exp1	---	73	---	2.1	V SX-3	35	83	1.3	2.3
Pioneer Exp2	---	70	---	1.9	<b>CV</b>				
Pioneer Exp3	---	73	---	1.6		23	22	33	27
Pioneer Exp4	---	70	---	1.6	<b>LSD (0.05)</b>				
<b>High Plains Crop Development</b>						23	16	0.7	0.9
Claremore	53	83	0.8	2.1					
HPX-7228	42	83	0.7	2.2					
HPX-7341	66	97	1.3	2.1					
<b>Kansas State University</b>									
KS4428	65	93	1.2	2.5					
KS4476	---	73	---	1.7					
KSR07363	---	70	---	1.7					
KSUR21	---	80	---	1.4					
Riley	65	83	1.0	2.3					
Sumner	42	77	0.6	1.9					
Wichita	72	80	1.4	2.1					

<sup>1</sup> Percentage of plants with blackleg.<sup>2</sup> Internal stem decay from blackleg rated on a scale from 0 to 5, where 0 = no disease, 1 = 25% of the stem with decay, 2 = 50% of the stem with decay, 3 = 75% of the stem with decay, 4 = 100% of the stem with decay, 5 = dead plant (from Bradley and Chesrown [2005] Fungicide and Nematicide Reports. 60:FC105. doi:10.1094/FN60).

Blackleg was assessed on the stubble after swathing. Disease incidence and severity were assessed by uprooting plants and examining basal cross sections of 10 stems per plot on 16-May-2013.

Temperatures were above normal (30-yr. average) from November through January, but below normal from January through May. Rainfall was below normal in the fall and mostly above normal from February through April. Over the entire cropping period, rainfall was 15% below normal. Dry conditions in the fall delayed blackleg development, and the leaf spot phase of the disease did not appear until spring 2013. Leaf spots from blackleg became widespread in April during the budding and flowering stages. Blackleg cankers developed on basal areas of most stems near the soil line. Moderate levels were recorded compared with previous trials.

**Table 22. Seed sources for entries in the 2012-2013 National Winter Canola Variety Trial**

Developer / marketer	Type <sup>1</sup>	Trait <sup>2,3</sup>	Release date	Maturity <sup>4</sup>	Developer / marketer	Type <sup>1</sup>	Trait <sup>2,3</sup>	Release date	Maturity <sup>4</sup>
<b>Kansas State University Canola Breeding Program</b> Michael J. Stamm (mjstamm@ksu.edu)					<b>DuPont Pioneer</b> Cole Randol (cole.randol@pioneer.com)				
KS4428	OP	---	---	M	46W94	Hyb	RR	2011	M
KS4475	OP	---	---	M	46W99	Hyb	RR	2011	M
KSUR21	OP	SU	---	F	Pioneer Exp1	Hyb	---	---	M
KSR07363	OP	RR	---	M	Pioneer Exp2	Hyb	---	---	M
Riley	OP	---	2010	M	Pioneer Exp3	Hyb	SD	---	F
Sumner	OP	SU	2003	E	Pioneer Exp4	Hyb	SD	---	F
Wichita	OP	---	1999	M					
<b>DL Seeds Inc. (Developer)</b> Kevin McCallum (kevin.mccallum@dlseeds.ca)					<b>Syngenta</b> Patrick Carruthers (Patrick.Carruthers@SYNGENTA.COM)				
<b>Rubisco Seeds LLC (Marketer)</b> Claire Caldbeck (info@rubiscoseeds.com)					NK PETROL Hyb --- --- M				
Baldur	Hyb	---	2004	M	NK Technic	Hyb	---	---	M
Dimension	Hyb	---	2008	E	Gladius	Hyb	---	---	M
Dynastie	Hyb	---	2007	F	SY Regata	Hyb	---	---	E
Edimax	Hyb	CL	2012	M					
Flash	Hyb	---	2007	F	<b>CROPLAN by WinField</b> Mark Torno (Mtorno@landolakes.com)				
Hornet	Hyb	---	2008	M	HYCLASS 115W	OP	RR/SURT	2008	E
Inspiration	Hyb	---	---	M	HYCLASS 125W	OP	RR/SURT	2010	M
NPZ 1005	Hyb	---	---	M					
Rumba	Hyb	---	---	M	<b>Virginia State University Agricultural Experiment Station</b> Dr. Harbans Bhardwaj (hbhardwj@vsu.edu)				
Safran	Hyb	---	2008	M	Virginia	OP	---	2003	M
Sitro	Hyb	---	2007	M	VSX-3	OP	---	---	M
Visby	Hyb	---	2008	M					
<b>High Plains Crop Development</b> Dr. Charlie Rife (charlie@highplainscd.com)					<b>Technology Crops International</b> Jeff Riddle (jiddle@techcrops.com)				
Claremore	OP	IMI	2011	F	Rossini	H	HEAR	2009	E
HPX-7228	OP	---	---	E	TCI16	H	HEAR	---	E
HPX-7341	OP	---	---	M	TCI17	H	HEAR	---	M
					TCI/F13	H	---	---	M
<b>MOMONT, France</b> Dr. Thierry Momont (tmomont@momont.com)					<b>Bayer CropScience</b> Jordan Varberg (jordan.varberg@bayer.com)				
<b>Photosyntech</b> Bob Amstrup (bob.amstrup@photosyntech.com)					RG29101 H --- --- M				
Chrome	Hyb	---	2010	M	RG29102	H	---	---	M
MH07J14	Hyb	---	---	M					
MH09E3	Hyb	---	---	E	<sup>1</sup> OP = open pollinated, Hyb = hybrid				
MH09H19	Hyb	---	---	M	<sup>2</sup> SU & SURT = sulfonylurea carryover tolerant; CL = Clearfield (imidazolinone resistant); IMI = imidazolinone carryover tolerant; RR = Roundup Ready; SD = semi dwarf				
<b>Monsanto / DEKALB</b> Jeffery Herrmann (jeffery.e.herrmann@monsanto.com)					<sup>3</sup> HEAR = High Erucic Acid Rapeseed. Contains greater than 2% erucic acid in the processed oil. Can be used only for industrial purposes. HEAR is not canola.				
DKW41-10	OP	RR	2008	E	<sup>4</sup> E = Early; M = Medium; F = Full				
DKW44-10	OP	RR	2009	M					
DKW46-15	OP	RR/SURT	2008	M					
DKW47-15	OP	RR/SURT	2008	F					



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