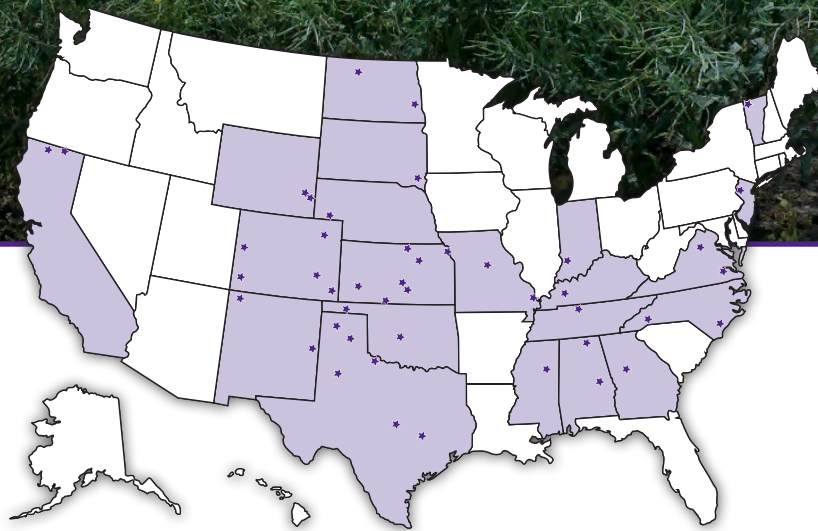


2014

National Winter Canola Variety Trial



Report of Progress 1116



K-STATE
Research and Extension

Kansas State University Agricultural Experiment Station and Cooperative Extension Service

2014 National Winter Canola Variety Trial

Table of Contents

Objectives, Procedures, Growing Conditions, Test Sites and Results.....	1
Variety Selection, Acknowledgments.....	2
Results from the 2014 National Winter Canola Variety Trials	
Meridianville, AL, Table 1	3
Shorter, AL, Table 2	5
Griffin, GA, Table 3.....	6
Mills River, NC, Table 4.....	8
Wallace, NC, Table 5.....	9
Pittstown, NJ, Table 6.....	10
Orange, VA, Table 7.....	12
Southeast Region Summary, 2009-2014, Table 8	14
Vincennes, IN, Table 9	15
Cape Girardeau, MO, Table 10.....	17
Springfield, TN, Table 11	19
Midwest Region Summary, 2009-2014, Table 12	21
Fruita, CO, Table 13	23
Rocky Ford, CO, Table 14.....	25
Andale, KS, Table 15.....	27
Belleville, KS, Table 16.....	28
Garden City, KS, Table 17.....	30
Hutchinson, KS, Table 18.....	32
Clovis, NM, Table 19.....	34
Goodwell, OK, Table 20.....	36
Chillicothe, TX, Table 21	38
Etter, TX, Table 22	39
College Station, TX, Table 23	41
Great Plains Region Summary, 2009-2014, Table 24	43
Alburgh, VT, Table 25.....	45
Lingle, WY, Table 26	46
Northern Region Summary, 2009-2014, Table 27	48
Blackleg Evaluations, Table 28	49
Seed Sources for NWCVT Entries, Table 29	50

Contribution no. 15-362-S from the Kansas Agricultural Experiment Station

2014 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 21 states for the 2013–2014 growing season. The locations receiving seed are illustrated on the map on the front cover. Of the 57 entries tested, 25 were commercial and 32 were experimental. These entries were provided by 12 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 ft²) 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.

University of California-Davis, Southeast Missouri State University, Lincoln University, University of Nebraska-Lincoln, North Carolina State University Mountain Horticultural Crops Research and Extension Center, and North Carolina State University Williamsdale Biofuels Field Laboratory were

new cooperators in 2013–2014. See the back cover for a listing of participating cooperators.

The NWCVT continues in the 2014–2015 growing season and includes 54 entries. Eleven seed suppliers contributed to the trial, and it was distributed to 51 locations in 19 states.

2013–2014 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 “13–14” represents actual precipitation. If weather information was not provided, data were taken from a nearby town.

In general, temperatures during the 2013–2014 growing season were below normal for much of the U.S. Several locations reported winter stand losses from cold temperatures and wind desiccation. Drought conditions in the Great Plains delayed planting from 1 to 3 weeks. The spring was challenging because of persistent drought conditions and late-spring freeze events. Precipitation arrived at crop maturity, thus delaying harvest and causing plant regrowth and shattering.

Test Sites and Results

Twenty-one harvested locations in 15 states are included in this report: Meridianville and Shorter, AL; Fruita and Rocky Ford, CO; Griffin, GA; Vincennes, IN; Belleville, Garden City, and Hutchinson, KS; Cape Girardeau, MO; Mills River and Wallace, NC; Pittstown, NJ; Clovis, NM; Goodwell, OK; Springfield, TN; College Station and Etter, TX; Orange, VA; Alburgh, VT; and Lingle, WY.

Andale, KS and Chillicothe, TX are also included in the publication because differential winterkill was reported at each site.

Twenty-four locations were not published because of poor data quality caused by

inadequate stand establishment, winterkill, herbicide damage, shattering, or other weather-related events.

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% of the test average across multiple locations merit some consideration.

Regional summary tables were created with data from 2009 to 2014. Locations were excluded if yield data were compromised by weather-related events. The locations that were excluded were Meridianville, AL; Rocky Ford, CO; Belleville, Garden City, and Hutchinson, KS; Cape Girardeau, MO; Clovis, NM; and Etter, TX.

Overall, yields were reduced at most locations because of the below-normal winter temperatures. The consistency of yields was not as good as in previous years. Yields were below average in the Great Plains and average in the Midwest and Southeast. One site averaged more than 3,700 lb/acre, but only four others averaged greater than 2,000 lb/acre. All other locations yielded less than 1,800 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. Fourteen locations have CV values of greater than 20.

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.

Table 28 provides information on the tolerance of varieties to the blackleg fungus. The 2013–2014 blackleg nursery was lost to poor establishment and winterkill; thus, not all varieties mentioned in this report of progress have blackleg tolerance data available. View Table 29 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 Joao Alves Da Silva, Emma Gantz, Hillary Henslee, and Jessica Martin 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: 9/20/2013 in 7-in. rows
 Harvested: 6/17/2014
 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: Unusually cold winter but no obvious winterkill. Harvest was delayed by wet weather causing significant shatter loss.

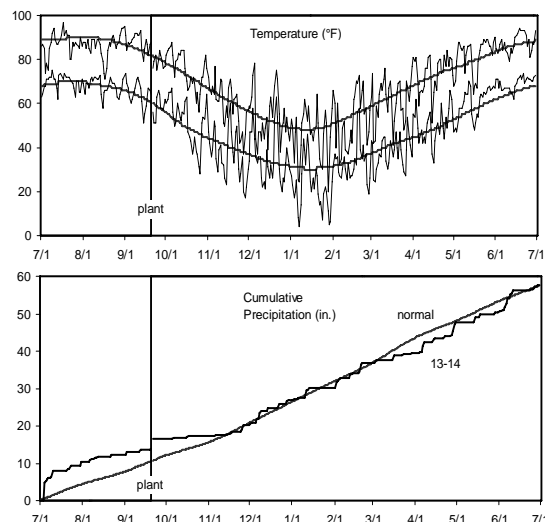


Table 1. Results for the 2014 National Winter Canola Variety Trial at Meridianville, AL

Name	Yield (lb/a) ¹			Yield (% of test avg.)			Plant		Shatter (%)	Protein (%)	Oil (%)	
	2014	2013	3-yr. ²	2014	2014	2013	3-yr. ²	height (in.)				50% bloom (DOY)
DL Seeds Inc.												
Argos	1530	---	---	124	---	---	---	45	94	16.7	23.7	42.5
Garou	1685	---	---	89	---	---	---	42	111	41.7	23.6	42.4
NPZ4005	1677	---	---	67	---	---	---	41	99	48.3	24.2	42.3
Popular	1146	---	---	66	---	---	---	40	96	33.3	23.2	44.8
Raffiness	1485	---	---	107	---	---	---	42	98	25.0	23.0	43.7
DuPont Pioneer												
Exp 1301	1360	2977	2169	76	---	---	---	45	112	55.0	24.4	43.0
Exp 1302	2200	---	---	66	---	---	---	42	100	28.3	23.5	44.7
Pioneer Exp1	1089	2356	1723	91	---	---	---	41	111	36.7	23.4	43.0
Pioneer Exp6	996	---	---	70	---	---	---	39	107	11.7	24.4	42.5
PX112	869	2548	1709	54	---	---	---	39	99	15.0	23.4	44.5
PX117	1267	2768	2018	109	---	---	---	42	98	28.3	24.5	42.5
Kansas State University												
Riley	1301	2341	1715	74	---	---	---	42	111	31.7	25.6	41.4
Wichita	1359	2226	1799	84	---	---	---	40	100	36.7	26.5	40.7
MOMONT, France												
CHH2311	3169	---	---	95	---	---	---	44	108	61.7	23.7	42.8
Chrome	2209	3942	2752	104	---	---	---	45	100	39.2	24.0	42.3
Hekip	1189	3150	2169	83	---	---	---	42	95	26.7	24.8	40.1
MH10G11	2077	---	---	36	---	---	---	41	99	81.7	24.3	42.8
MH10L23	1895	---	---	74	---	---	---	47	100	53.3	22.4	44.7
Monsanto / DEKALB												
DK Exstorm	1368	---	---	109	---	---	---	45	100	18.3	21.8	43.5
DK Imiron CL	1418	---	---	129	---	---	---	41	111	4.2	25.6	40.4
DK Sensei	1050	---	---	67	---	---	---	39	111	31.7	24.8	42.1
Rubisco Seeds LLC												
Dimension	1422	2636	2029	70	---	---	---	44	98	50.0	22.2	43.9
Edimax CL	1122	2962	1961	98	---	---	---	43	99	11.7	23.9	40.5
Hornet	1345	2527	1859	117	---	---	---	43	99	8.3	24.0	42.2
Inspiration	1478	3001	2239	134	---	---	---	46	99	5.0	23.8	42.0
Mercedes	1468	2725	2036	124	---	---	---	41	105	10.5	23.9	42.1
Safran	2442	3118	2709	183	---	---	---	45	107	20.0	23.1	42.1
Sitro	1994	2960	2224	184	---	---	---	45	95	3.3	21.8	43.6
Visby	1497	2452	1806	115	---	---	---	42	99	18.3	23.4	40.9

Table 1. Results for the 2014 National Winter Canola Variety Trial at Meridianville, AL

Name	Yield (lb/a) ¹			Yield (% of test avg.)			Winter survival (%)			Plant height	50% bloom	Shatter	Protein	Oil
	2014	2013	3-yr. ²	2014	2014	2013	3-yr. ²	(in.)	(DOY)	(%)	(%)	(%)	(%)	
Syngenta														
NK Petrol	1362	2589	1975	41	---	---	---	43	99	55.0	25.4	39.6		
NK Technic	2323	2648	2486	99	---	---	---	45	97	46.7	25.3	39.1		
SY Marten	1349	---	---	114	---	---	---	43	95	11.7	23.6	42.1		
SY Saveo	1796	---	---	138	---	---	---	43	98	18.3	23.6	42.2		
Virginia State University														
Virginia	1776	2501	1999	164	---	---	---	44	119	3.3	23.4	42.1		
VSX-3	1593	1552	1648	139	---	---	---	43	95	8.3	25.9	40.0		
VSX-4	990	---	---	70	---	---	---	40	100	23.3	24.7	41.0		
Mean	1538	2415	---	---	---	---	---	42	100	26.8	24.0	42.2		
CV	47	22	---	---	---	---	---	7	3	73.1	5.0	2.5		
LSD (0.05)	NS	858	---	---	---	---	---	5	6	32.1	2.4	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.

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

²3-year average includes 2012, 2013, and 2014.

Shorter, Alabama

Dennis Delaney
Auburn University

Planted: 11/14/2013 at 5 lb/a in 7-in. rows
 Harvested: 6/5/2014
 Herbicides: Treflan
 Insecticides: 6 oz/a Tundra
 Irrigation: 0.4 in.
 Soil test: P=High, K=High, and pH=6.0
 Fertilizer: 30-30-30 lb N-P-K fertilizer in fall
 120-0-0-20 lb N-P-K-S fertilizer in spring
 Soil type: Marvyn sandy loam
 Elevation: 220 ft Latitude: 32° 25'N
 Comments: Planting was delayed due to a dry fall. Unusually cold weather after dormancy caused very little winterkill.

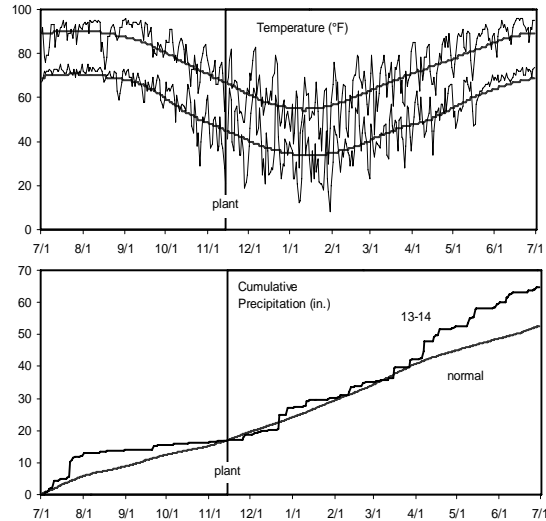


Table 2. Results for the 2014 National Winter Canola Variety Trial at Shorter, AL

Name	Yield (lb/a) ¹			Yield (% of test avg.)			Plant			Test		
	2014	2012	2-yr.	2014	2014	2012	2-yr.	height (in.)	Maturity (DOY)	weight (lb/bu)	Protein (%)	Oil (%)
Kansas State University												
Wichita	2024	636	1330	89	---	---	---	51	127	51.2	23.6	41.7
Limagrain												
Alabaster	2604	---	---	115	---	---	---	52	129	51.4	22.3	41.7
Albatros	2273	---	---	100	---	---	---	56	130	50.5	22.1	43.2
Artoga	2302	---	---	101	---	---	---	50	130	50.6	22.2	41.9
MOMONT, France												
CHH2311	2042	---	---	90	---	---	---	51	137	49.6	21.4	43.7
Chrome	2295	1741	2018	101	---	---	---	55	132	50.1	21.6	43.2
Hekip	3045	---	---	134	---	---	---	50	135	50.6	21.7	41.8
MH10G11	1687	---	---	74	---	---	---	56	137	49.7	22.0	43.6
MH10L23	2506	---	---	110	---	---	---	56	127	49.5	21.3	44.1
Monsanto / DEKALB												
DK Exstorm	2444	---	---	108	---	---	---	53	134	51.0	21.6	41.8
DK Imiron CL	2179	---	---	96	---	---	---	49	132	51.0	23.5	41.2
DK Sensei	2366	---	---	104	---	---	---	49	137	51.3	23.3	41.5
Rubisco Seeds LLC												
Dimension	2335	---	---	103	---	---	---	55	126	49.4	21.9	44.1
Hornet	2708	1804	2256	119	---	---	---	55	138	51.7	21.7	41.4
Safran	2292	883	1587	101	---	---	---	53	126	50.9	22.5	41.6
Sitro	2654	1697	2176	117	---	---	---	57	134	51.3	22.2	42.2
Visby	1963	1144	1554	86	---	---	---	51	133	49.8	22.2	41.6
Virginia State University												
Virginia	1872	---	---	82	---	---	---	42	132	51.6	22.7	40.9
VSX-3	1535	---	---	68	---	---	---	46	133	51.9	22.5	40.7
VSX-4	2295	---	---	101	---	---	---	49	128	51.6	23.1	40.5
Mean	2271	1453	---	---	---	---	---	52	132	50.8	22.3	42.1
CV	11	24	---	---	---	---	---	7	2	0.9	1.6	1.5
LSD (0.05)	417	567	---	---	---	---	---	6	4	0.8	0.7	1.3

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.

¹Use 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

J. Gassett, M. Gilmer, H. Jordan, and G. Ware
University of Georgia

Planted: 9/3/2013 at 5 lb/a in 7-in. rows
Harvested: 6/10/2014
Herbicides: Treflan
Insecticides: Karate
Irrigation: None
Previous crop: Wheat
Soil test: P=Medium, K=Very High, and pH=6.5
Fertilizer: 20-40-60 lb N-P-K fertilizer in fall
Soil type: Pacolet sandy loam
Elevation: 924 ft Latitude: 33° 16'N
Comments: Outstanding yields reported.

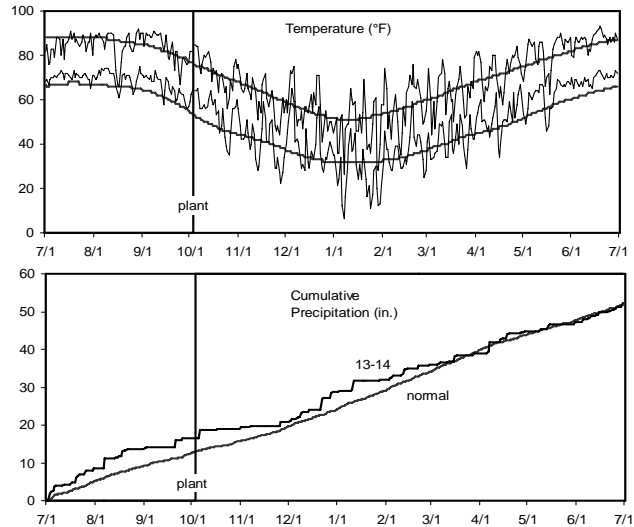


Table 3. Results for the 2014 National Winter Canola Variety Trial at Griffin, GA

Name	Yield (lb/a)			Yield (% of test avg.)			Plant height		50%	Test		Oil (%)
	2014	2013	3-yr. ¹	2014	2014	2013	3-yr. ¹	(in.)	bloom (DOY)	weight (lb/bu)	Protein (%)	
CROPLAN by WinField												
HYCLASS 115W	3788	2518	2686	100	100	100	100	59	90	51.1	25.8	39.8
HYCLASS 125W	2779	2543	2204	74	100	100	100	59	90	51.7	25.5	39.4
HYCLASS 225W	3531	---	---	94	100	---	100	59	91	51.9	24.7	40.6
DL Seeds Inc.												
Argos	4287	---	---	114	100	---	100	62	91	51.7	22.5	41.5
Garou	4743	---	---	126	100	---	100	61	90	51.3	23.7	40.0
NPZ4005	3830	---	---	102	100	---	100	60	91	51.6	21.9	42.7
Popular	3626	---	---	96	100	---	100	60	90	50.4	22.8	44.0
Raffiness	3195	---	---	85	100	---	100	60	92	50.9	22.3	44.1
DuPont Pioneer												
46W94	3706	2537	2565	98	100	98.3	99.4	60	90	51.5	22.6	41.7
46W99	3354	2391	2325	89	100	98.3	99.4	61	90	51.8	23.2	41.3
Exp 1301	3127	2671	2899	83	100	100	100	61	93	51.0	23.8	40.5
Exp 1302	3926	---	---	104	100	---	100	59	94	50.6	23.8	41.8
Pioneer Exp1	3442	3193	3317	91	100	100	100	59	92	49.6	23.3	43.5
Pioneer Exp6	3109	---	---	82	100	---	100	56	95	51.5	24.8	39.8
PX112	3272	2869	3071	87	100	98.3	99.4	59	96	52.0	25.2	38.8
PX117	3432	2460	2946	91	100	100	100	60	95	51.8	24.4	41.0
High Plains Crop Development												
Claremore	3525	2556	2332	94	100	93.3	97.8	62	97	51.2	26.3	39.9
Kansas State University												
KSR07363	3578	2386	2982	95	100	96.7	98.9	58	90	52.1	25.5	38.7
KSUR21	2713	2015	2364	72	100	100	100	62	93	51.1	26.8	37.1
Riley	3165	2378	2241	84	100	96.7	98.9	61	91	51.7	25.0	40.5
Sumner	3475	2287	2363	92	100	100	100	60	90	51.6	26.0	39.4
Wichita	4281	2645	2695	114	100	100	100	62	92	51.0	25.7	39.9
Limagrain												
Alabaster	4866	---	---	129	100	---	100	59	91	52.2	23.7	39.3
Albatros	3704	---	---	98	100	---	100	63	92	51.6	23.5	41.7
Artoga	4697	---	---	125	100	---	100	59	91	50.9	23.1	41.2
MOMONT, France												
CHH2311	4063	---	---	108	100	---	100	61	93	51.2	22.8	42.1
Chrome	3650	3119	2755	97	100	98.3	99.4	60	91	50.7	22.4	42.9
Hekip	4219	3451	3835	112	100	---	100	56	90	51.2	22.9	40.6
MH10G11	2631	---	---	70	100	---	100	65	93	50.7	22.7	42.3
MH10L23	3706	---	---	98	100	---	100	62	93	50.1	23.0	41.9

Table 3. Results for the 2014 National Winter Canola Variety Trial at Griffin, GA

Name	Yield (lb/a)			Yield (% of test avg.)	Winter survival (%)			Plant height	50% bloom	Test weight	Protein	Oil
	2014	2013	3-yr. ¹	2014	2014	2013	3-yr. ¹	(in.)	(DOY)	(lb/bu)	(%)	(%)
Monsanto / DEKALB												
DK Exstorm	4559	---	---	121	100	---	100	62	91	51.0	22.4	41.9
DK Imiron CL	3865	---	---	103	100	---	100	56	94	52.0	25.3	37.8
DK Sensei	4254	---	---	113	100	---	100	60	94	51.7	24.9	39.5
DKW41-10	2800	1969	2140	74	100	100	100	54	90	50.9	25.8	39.6
DKW44-10	2937	2585	2270	78	100	100	100	51	81	52.7	26.6	37.6
DKW45-25	3249	---	---	86	100	---	100	58	90	52.4	25.4	38.6
DKW46-15	4005	1865	2237	106	100	98.3	99.4	57	90	51.6	24.9	40.0
DKW47-15	3150	2074	2202	84	100	100	100	61	92	51.5	25.4	40.0
Rubisco Seeds LLC												
Dimension	3795	3174	3485	101	100	100	100	60	90	50.3	23.0	43.8
Edimax CL	3966	3480	3018	105	100	100	100	60	91	51.7	23.3	38.7
Hornet	4425	3152	3121	117	100	100	100	57	91	51.3	22.6	41.3
Inspiration	4332	3647	3990	115	100	100	100	63	91	51.4	23.6	40.6
Mercedes	4418	3219	3162	117	100	100	100	60	92	51.7	22.5	41.9
Safran	4771	3209	3159	127	100	100	100	64	93	51.8	23.6	39.2
Sitro	4566	3418	3241	121	100	100	100	60	90	51.2	23.9	40.2
Visby	3255	2883	2501	86	100	100	100	60	91	51.9	23.6	40.2
Star Specialty Seed, Inc.												
Star 915W	4643	---	---	123	100	---	100	57	91	51.0	25.6	40.1
Syngenta												
NK Petrol	3986	3070	3528	106	100	100	100	63	92	50.9	23.9	39.7
NK Technic	4514	3263	3888	120	100	100	100	63	91	51.3	23.4	39.2
SY Marten	4126	---	---	109	100	---	100	60	90	50.7	23.7	40.1
SY Saveo	4119	---	---	109	100	---	100	60	91	50.0	22.1	41.6
Virginia State University												
Virginia	3142	2597	2348	83	100	100	100	57	90	50.9	25.2	39.6
VSX-3	3975	2338	2541	105	100	100	100	59	90	50.6	25.0	39.0
VSX-4	3294	---	---	87	100	---	100	59	90	51.6	25.3	38.5
Mean	3770	2815	---	---	100	99.4	---	60	91	51.3	24.1	40.5
CV	15	11	---	---	---	2.1	---	---	---	---	2.5	2.0
LSD (0.10)	740	524	---	---	NS	NS	---	2	---	0.7	1.2	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.

¹3-year average includes 2012, 2013, and 2014.

Mills River, North Carolina

Ron Gehl and Jeff Chandler
North Carolina State University

Planted: 10/3/2013 at 5 lb/a in 7.5-in. rows
Harvested: 6/23/2014
Herbicides: None
Soil test: NA
Fertilizer: 44-64-100-24 lb N-P-K-S fertilizer in fall
100-0-0-24-2 lb N-P-K-S-B fertilizer in spring
Comments: Yields were high, but some variability among reps resulted in a high CV.

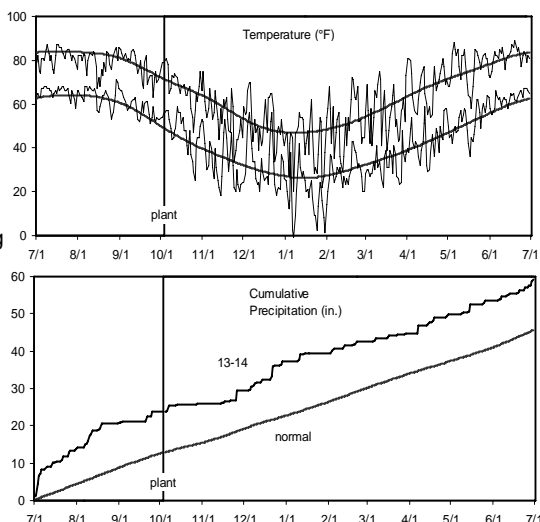


Table 4. Results for the 2014 National Winter Canola Variety Trial at Mills River, NC

Name	Yield (lb/a) ¹			Yield (% of test avg.)		Plant			Test			
	2014	2013	3-yr.	2014	2014	2013	3-yr.	height (in.)	Moisture (%)	weight (lb/bu)	Protein (%)	Oil (%)
CROPLAN by WinField												
HYCLASS 115W	2167	---	---	105	---	---	---	---	11.3	48.7	---	---
DuPont Pioneer												
46W99	2224	---	---	108	---	---	---	---	13.1	48.5	---	---
Kansas State University												
Wichita	2008	---	---	98	---	---	---	---	11.8	48.9	---	---
Limagrain												
Alabaster	3552	---	---	173	---	---	---	---	13.3	49.2	---	---
Artoga	1974	---	---	96	---	---	---	---	12.7	42.1	---	---
MOMONT, France												
Chrome	4347	---	---	211	---	---	---	---	12.8	48.5	---	---
Monsanto / DEKALB												
DKW44-10	2254	---	---	110	---	---	---	---	12.5	49.3	---	---
Rubisco Seeds LLC												
Dimension	1001	---	---	49	---	---	---	---	13.8	51.3	---	---
Edimax CL	3158	---	---	154	---	---	---	---	11.9	48.6	---	---
Visby	2862	---	---	139	---	---	---	---	17.4	42.5	---	---
Syngenta												
SY Marten	2655	---	---	129	---	---	---	---	15.3	44.8	---	---
SY Saveo	2303	---	---	112	---	---	---	---	12.4	49.4	---	---
Virginia State University												
Virginia	2504	---	---	122	---	---	---	---	12.2	49.4	---	---
Mean	2621	---	---	---	---	---	---	---	13.1	47.6	---	---
CV	40	---	---	---	---	---	---	---	28.5	9.7	---	---
LSD (0.05)	NS	---	---	---	---	---	---	---	NS	NS	---	---

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.

¹Use yield data with caution. A CV above 20 indicates higher experimental error. Make variety selection decisions based on more than one year's data. Yields adjusted to 9% moisture.

Wallace, North Carolina

John Garner and Adam Heitman
North Carolina State University

Planted: 10/17/2013 at 5 lb/a in 7.5-in. rows
 Harvested: 6/12/2014
 Herbicides: 1.5 pt/a Poast
 Insecticides: None
 Irrigation: None
 Previous crop: Corn
 Soil test: NA
 Fertilizer: 37-0-0 lb N-P-K fertilizer in fall
 100-0-0-23 lb N-P-K-S fertilizer in spring
 Soil type: Noboco loamy fine sand
 Elevation: 60 ft Latitude: 34° 45'N
 Comments: Average yields are reported.

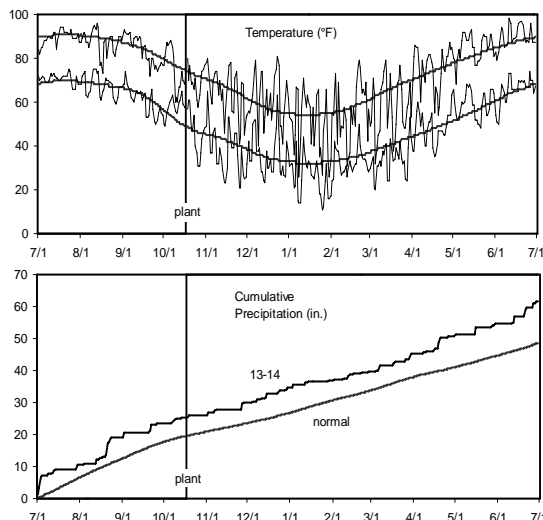


Table 5. Results for the 2014 National Winter Canola Variety Trial at Wallace, NC

Name	Yield (lb/a) ¹			Yield (% of test avg.)			Plant			Test		
	2014	2013	3-yr.	2014	2014	2013	3-yr.	height (in.)	Moisture (%)	weight (lb/bu)	Protein (%)	Oil (%)
CROPLAN by WinField												
HYCLASS 115W	1140	---	---	95	---	---	---	---	8.0	---	---	---
DuPont Pioneer												
46W99	752	---	---	63	---	---	---	---	12.7	---	---	---
Kansas State University												
Wichita	1176	---	---	98	---	---	---	---	8.5	---	---	---
Limagrain												
Alabaster	1383	---	---	115	---	---	---	---	8.8	---	---	---
Artoga	1626	---	---	136	---	---	---	---	8.5	---	---	---
MOMONT, France												
Chrome	1354	---	---	113	---	---	---	---	10.8	---	---	---
Monsanto / DEKALB												
DKW44-10	1390	---	---	116	---	---	---	---	8.1	---	---	---
Rubisco Seeds LLC												
Edimax CL	1403	---	---	117	---	---	---	---	8.1	---	---	---
Visby	673	---	---	56	---	---	---	---	10.6	---	---	---
Syngenta												
SY Marten	1960	---	---	163	---	---	---	---	9.0	---	---	---
SY Saveo	1750	---	---	146	---	---	---	---	11.0	---	---	---
Virginia State University												
Virginia	1406	---	---	117	---	---	---	---	9.4	---	---	---
Mean	1334	---	---	---	---	---	---	---	9.5	---	---	---
CV	18	---	---	---	---	---	---	---	13.7	---	---	---
LSD (0.05)	415	---	---	---	---	---	---	---	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.

¹Yields adjusted to 9% moisture.

Pittstown, New Jersey

David Lee and Melvin Henninger
Rutgers University

Planted: 9/20/2013 in 9-in. rows
Harvested: 7/21/2014
Herbicides: 2 pt/a Triflurex HFP
Insecticides: None
Irrigation: None
Soil test: 210-233 ppm P-K, pH=6.7
Fertilizer: 150-0-0 lb N-P-K fertilizer in fall
Soil type: Quakertown silt loam
Elevation: 611 ft Latitude: 40° 34'N
Comments: Colder than normal temperatures resulted in below-average yields. Some damage from geese reported.

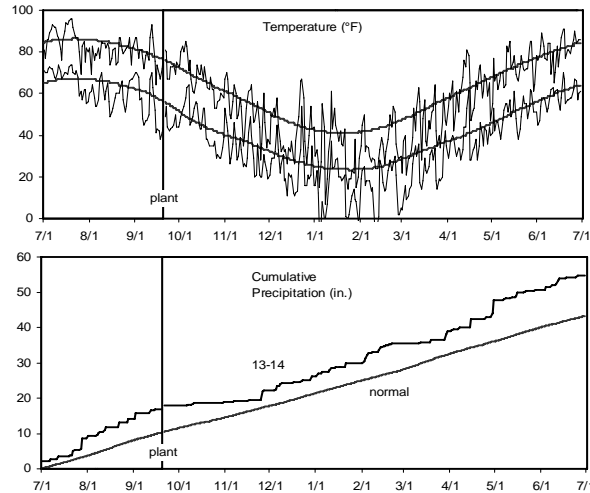


Table 6. Results for the 2014 National Winter Canola Variety Trial at Pittstown, NJ

Name	Yield (lb/a) ¹			Yield (% of test avg.)			Plant			Test		
	2014	2013	3-yr. ³	2014	2014	2013	3-yr. ³	height (in.)	Moisture (%)	weight (lb/bu)	Protein (%)	Oil (%)
CROPLAN by WinField												
HYCLASS 115W	1003	3315	1773	56	2.3	---	---	---	6.9	31.7	24.6	42.0
HYCLASS 125W	2022	3468	2099	112	5.7	---	---	---	9.1	49.2	21.8	43.8
HYCLASS 225W	1971	---	---	109	4.3	---	---	---	10.3	49.6	22.3	42.5
DL Seeds Inc.												
Argos	2092	---	---	116	5.3	---	---	---	9.8	49.6	20.8	44.9
Garou	1997	---	---	111	6.3	---	---	---	8.7	48.3	21.2	44.1
NPZ4005	2282	---	---	127	3.7	---	---	---	9.1	49.2	21.5	44.5
Popular	2584	---	---	144	4.7	---	---	---	9.1	47.8	21.3	47.3
Raffiness	2705	---	---	150	7.0	---	---	---	8.9	48.1	21.2	44.9
DuPont Pioneer												
46W94	735	3327	1716	41	2.0	---	---	---	6.3	31.6	23.0	41.4
46W99	1271	2965	1706	71	1.7	---	---	---	7.2	31.7	23.6	42.9
Exp 1301	2161	3102	2631	120	6.0	---	---	---	9.7	48.4	21.2	46.3
Exp 1302	2161	---	---	120	5.0	---	---	---	9.2	48.6	22.1	45.2
Pioneer Exp1	1236	3441	---	69	2.3	---	---	---	11.3	46.5	24.2	45.2
Pioneer Exp6	2161	---	---	120	4.0	---	---	---	9.3	48.7	22.9	45.7
PX112	2308	3350	2829	128	4.7	---	---	---	8.7	48.9	20.9	44.4
PX117	2264	2915	2590	126	5.7	---	---	---	8.6	48.7	22.6	46.1
High Plains Crop Development												
Claremore	2109	2984	1994	117	5.0	---	---	---	10.2	47.4	23.5	44.0
Kansas State University												
KSR07363	1599	3113	2356	89	7.3	---	---	---	9.3	49.5	22.2	42.1
KSUR21	2394	2854	2624	133	5.3	---	---	---	9.5	49.0	22.8	43.4
Riley	1564	3098	1770	87	3.0	---	---	---	5.9	32.4	23.9	43.2
Sumner	1780	2900	1742	99	3.7	---	---	---	9.3	49.0	24.4	42.5
Wichita	2688	2607	1974	149	6.0	---	---	---	9.8	48.6	24.1	41.9
Limagrain												
Alabaster	2100	---	---	117	3.3	---	---	---	10.8	48.9	21.8	43.1
Albatros	2766	---	---	154	6.3	---	---	---	9.6	48.8	23.1	42.6
Artoga	1331	---	---	74	2.7	---	---	---	5.7	32.2	22.6	43.3
MOMONT, France												
CHH2311	2109	---	---	117	3.3	---	---	---	10.4	47.3	21.8	44.9
Chrome	1219	3849	2046	68	2.3	---	---	---	9.5	44.7	24.4	41.5
Hekip	1054	3182	2118	59	2.3	---	---	---	6.9	31.8	23.8	40.9
MH10G11	1530	---	---	85	2.3	---	---	---	10.2	47.8	23.6	43.4
MH10L23	2256	---	---	125	2.7	---	---	---	10.3	48.0	22.9	44.1

Table 6. Results for the 2014 National Winter Canola Variety Trial at Pittstown, NJ

Name	Yield (lb/a) ¹			Yield (% of test avg.)			Winter survival (0-9) ²		Plant height (in.)	Moisture (%)	Test weight (lb/bu)	Protein (%)	Oil (%)
	2014	2013	3-yr. ³	2014	2014	2013	3-yr. ³						
Monsanto / DEKALB													
DK Exstorm	3111	---	---	173	5.0	---	---	---	8.9	48.9	21.3	44.1	
DK Imiron CL	2550	---	---	142	5.7	---	---	---	9.4	49.9	22.2	41.7	
DK Sensei	2420	---	---	134	6.0	---	---	---	7.6	49.2	22.9	42.9	
DKW41-10	2299	2134	1660	128	4.3	---	---	---	9.7	48.7	22.5	42.2	
DKW44-10	1504	2031	1550	84	4.0	---	---	---	10.9	49.0	25.0	40.2	
DKW45-25	1703	---	---	95	4.7	---	---	---	10.2	49.3	22.9	41.0	
DKW46-15	1815	2812	1804	101	6.0	---	---	---	8.8	49.0	23.3	42.0	
DKW47-15	1080	2770	1654	60	5.7	---	---	---	8.1	48.3	23.8	41.6	
Rubisco Seeds LLC													
Dimension	1590	3018	2304	88	3.0	---	---	---	6.4	31.9	22.7	44.9	
Edimax CL	2723	3495	2352	151	5.7	---	---	---	9.4	49.6	22.2	41.4	
Hornet	2757	3784	2499	153	6.7	---	---	---	8.3	49.6	20.4	43.1	
Inspiration	2740	3834	3287	152	5.0	---	---	---	8.9	49.6	22.0	43.8	
Mercedes	2368	3464	2231	132	5.3	---	---	---	8.9	48.6	20.8	43.9	
Safran	2263	3171	2231	126	5.3	---	---	---	9.6	49.6	22.4	41.9	
Sitro	1132	3624	1949	63	2.7	---	---	---	6.4	32.8	23.6	41.4	
Visby	2195	3201	2084	122	5.7	---	---	---	8.3	49.2	21.2	42.9	
Star Specialty Seed, Inc.													
Star 915W	1884	---	---	105	2.7	---	---	---	9.3	48.6	24.4	42.8	
Syngenta													
NK Petrol	1245	3586	2415	69	2.3	---	---	---	6.7	32.1	23.8	41.7	
NK Technic	2178	3403	2791	121	5.3	---	---	---	8.8	48.9	21.5	41.7	
SY Marten	2195	---	---	122	3.0	---	---	---	10.0	49.2	22.7	42.7	
SY Saveo	1755	---	---	97	3.0	---	---	---	10.3	47.3	21.3	43.7	
Virginia State University													
Virginia	1227	2767	1671	68	2.0	---	---	---	10.4	47.1	25.2	41.8	
VSX-3	1772	2934	1994	98	4.7	---	---	---	10.0	47.8	22.8	41.9	
VSX-4	1150	---	---	64	2.0	---	---	---	9.6	46.8	23.7	42.5	
Mean	1946	3112	---	---	4.3	---	---	---	9.0	45.8	22.7	43.1	
CV	34	13	---	---	35.8	---	---	---	27.1	24.6	4.3	2.6	
LSD (0.05)	1069	664	---	---	2.5	---	---	---	NS	NS	2.0	2.3	

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.

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

²Winter survival rated on a scale of 0=complete winterkill to 9=no winterkill.

³3-year average includes 2012, 2013, and 2014.

Orange, Virginia

Wade Thomason and Steve Gulick
Virginia Tech University

Planted: 9/24/2013 at 5 lb/a in 7-in. rows
Harvested: 6/24/2014
Herbicides: 1 pt/a Trellan HP
Insecticides: None
Irrigation: None
Previous crop: NA
Soil test: NA
Fertilizer: 30-45-45 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: Colder than normal winter
temperatures reduced plant height
and yield. A late-spring freeze
affected flowering time.

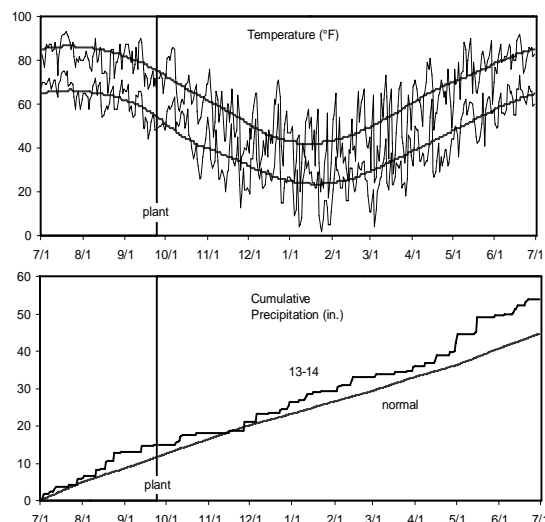


Table 7. Results for the 2014 National Winter Canola Variety Trial at Orange, VA

Name	Yield (lb/a) ¹			Yield (% of test avg.)				Plant		Test		
	2014	2013	3-yr. ²	2014	2014	2013	3-yr.	height (in.)	Moisture (%)	weight (lb/bu)	Protein (%)	Oil (%)
CROPLAN by WinField												
HYCLASS 115W	1180	2104	1103	81	---	---	---	43	8.0	46.0	25.0	41.3
HYCLASS 125W	1199	202	475	83	---	---	---	46	8.4	44.3	24.4	42.1
HYCLASS 225W	1337	---	---	92	---	---	---	46	8.3	45.0	24.8	40.9
DL Seeds Inc.												
Argos	1624	---	---	112	---	---	---	49	7.8	44.1	21.6	44.6
Garou	1569	---	---	108	---	---	---	47	8.8	44.9	24.5	41.7
NPZ4005	1145	---	---	79	---	---	---	47	8.5	45.2	21.3	44.8
Popular	1301	---	---	90	---	---	---	46	8.0	45.5	22.8	45.4
Raffiness	1581	---	---	109	---	---	---	47	8.9	45.3	22.1	45.0
DuPont Pioneer												
46W94	1090	2236	1117	75	---	---	---	46	8.1	44.5	22.6	43.3
46W99	1192	2149	1122	82	---	---	---	45	8.1	44.9	24.0	42.2
Exp 1301	1954	2619	1533	135	---	---	---	48	7.9	43.2	21.9	46.7
Exp 1302	1328	---	---	92	---	---	---	48	8.3	46.4	23.0	44.7
Pioneer Exp1	1505	2777	1436	104	---	---	---	44	8.4	44.4	23.2	44.7
Pioneer Exp6	1592	---	---	110	---	---	---	45	7.8	46.5	23.4	42.7
PX112	1386	2886	1432	96	---	---	---	45	8.2	46.5	21.9	45.1
PX117	1783	2625	1478	123	---	---	---	46	8.0	46.9	23.0	45.3
High Plains Crop Development												
Claremore	1441	2463	1310	99	---	---	---	---	8.3	45.1	25.6	41.2
Kansas State University												
KSR07363	1913	2136	1358	132	---	---	---	44	8.6	47.0	23.7	42.4
KSUR21	1480	1681	1062	102	---	---	---	49	8.6	45.5	25.7	41.2
Riley	1142	2154	1107	79	---	---	---	46	8.1	45.2	23.6	42.9
Sumner	1428	2206	1220	99	---	---	---	44	9.0	43.7	24.5	41.8
Wichita	1024	2223	1090	71	---	---	---	48	8.0	46.9	24.6	42.5
Limagrain												
Alabaster	1723	---	---	119	---	---	---	47	8.1	45.8	22.4	42.3
Albatros	1017	---	---	70	---	---	---	48	8.1	45.3	23.0	43.5
Artoga	1215	---	---	84	---	---	---	---	8.4	45.8	22.0	43.0
MOMONT, France												
CHH2311	1084	---	---	75	---	---	---	44	8.3	44.2	22.0	44.9
Chrome	1654	3111	1597	114	---	---	---	45	8.6	46.8	23.2	43.0
Hekip	1771	2819	1538	122	---	---	---	47	8.5	45.9	22.4	44.5
MH10G11	1529	---	---	106	---	---	---	47	8.5	45.6	22.2	42.9
MH10L23	1734	---	---	120	---	---	---	48	8.4	44.4	23.5	43.2

Table 7. Results for the 2014 National Winter Canola Variety Trial at Orange, VA

Name	Yield (lb/a) ¹			Yield (% of test avg.)			Winter survival (%)		Plant height (in.)	Moisture (%)	Test	
	2014	2013	3-yr. ²	2014	2014	2013	3-yr.	weight (lb/bu)			Protein (%)	Oil (%)
Monsanto / DEKALB												
DK Exstorm	1803	---	---	124	---	---	---	47	8.5	46.0	22.6	43.8
DK Imiron CL	1776	---	---	123	---	---	---	49	8.4	46.5	23.5	42.2
DK Sensei	1663	---	---	115	---	---	---	46	8.1	44.6	22.7	43.0
DKW41-10	1559	1631	1072	108	---	---	---	44	8.1	46.1	22.8	42.8
DKW44-10	1392	2284	1234	96	---	---	---	42	8.2	47.4	27.9	39.3
DKW45-25	1537	---	---	106	---	---	---	46	8.5	42.8	23.9	41.4
DKW46-15	1453	1804	1094	100	---	---	---	44	8.3	44.4	25.2	42.2
DKW47-15	624	1930	860	43	---	---	---	43	8.0	42.0	24.5	41.5
Rubisco Seeds LLC												
Dimension	1376	2418	1273	95	---	---	---	46	8.9	41.5	22.9	44.8
Edimax CL	1965	3054	1681	136	---	---	---	47	8.5	45.7	21.9	43.4
Hornet	1734	2719	1493	120	---	---	---	50	8.4	44.9	22.7	43.5
Inspiration	1467	3100	1531	101	---	---	---	47	8.4	43.8	24.0	43.1
Mercedes	1838	3228	1697	127	---	---	---	49	8.2	44.2	21.5	44.7
Safran	1793	2950	1589	124	---	---	---	48	8.3	46.0	22.1	43.2
Sitro	1477	3094	1532	102	---	---	---	47	8.3	46.5	22.0	43.1
Visby	1423	2443	1297	98	---	---	---	44	8.3	43.6	22.6	42.7
Star Specialty Seed, Inc.												
Star 915W	784	---	---	54	---	---	---	46	7.7	46.0	25.9	40.4
Syngenta												
NK Petrol	1016	2695	1245	70	---	---	---	47	8.7	43.7	22.5	42.9
NK Technic	1528	2790	1448	105	---	---	---	49	8.6	44.2	22.2	42.5
SY Marten	1479	---	---	102	---	---	---	43	8.5	44.6	23.7	41.0
SY Saveo	1204	---	---	83	---	---	---	47	8.5	43.3	21.3	44.3
Virginia State University												
Virginia	1463	2212	1233	101	---	---	---	42	8.5	45.5	24.0	41.4
VSX-3	1615	2069	1236	111	---	---	---	43	8.8	45.2	23.7	41.0
VSX-4	1373	---	---	95	---	---	---	45	9.6	43.1	23.6	41.7
Mean	1449	2498	---	---	---	---	---	46	8.4	45.0	23.3	43.0
CV	24	12	---	---	---	---	---	5	7.8	3.7	4.5	2.5
LSD (0.05)	574	473	---	---	---	---	---	4	NS	2.7	2.1	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.

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

²3-year average includes 2012, 2013, and 2014.

Table 8. 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
CROPLAN by WinField					Monsanto / DEKALB				
HYCLASS 115W	1951	20	40.2	27	DK Exstorm	2979	4	42.9	4
HYCLASS 125W	1956	34	40.1	18	DK Imiron CL	2639	4	40.8	4
HYCLASS 225W	2280	3	41.3	3	DK Sensei	2629	4	41.7	4
DL Seeds Inc.					DKW41-10				
Argos	2668	3	43.7	3	DKW44-10	1583	29	38.8	28
Garou	2769	3	41.9	3	DKW45-25	1821	20	38.3	18
NPZ4005	2419	3	44.0	3	DKW46-15	2163	3	40.3	3
Popular	2504	3	45.6	3	DKW47-15	1787	29	41.3	28
Raffiness	2494	3	44.6	3	Rubisco Seeds LLC				
DuPont Pioneer					Dimension	2067	32	43.1	29
46W94	2075	13	41.9	13	Edimax CL	2567	16	40.7	14
46W99	1962	15	41.4	13	Hornet	2517	20	41.4	20
Exp 1301	2482	8	44.4	8	Inspiration	2958	8	42.3	8
Exp 1302	2472	3	43.9	3	Mercedes	2648	13	43.3	13
Pioneer Exp1	2455	8	44.5	8	Safran	2463	33	40.5	31
Pioneer Exp6	2287	3	42.7	3	Sitro	2394	33	41.1	32
PX112	2564	8	43.6	8	Visby	2119	39	40.8	35
PX117	2475	8	42.8	8	Star Specialty Seed, Inc.				
High Plains Crop Development					Star 915W	2437	3	41.1	3
Claremore	2142	28	40.2	27	Syngenta				
Kansas State University					NK Petrol	2426	8	41.3	8
KSR07363	2283	8	40.5	8	NK Technic	2716	8	40.8	8
KSUR21	2073	8	40.4	8	SY Marten	2483	5	41.2	3
Riley	1892	32	40.4	31	SY Saveo	2226	5	43.2	3
Sumner	1861	29	39.7	28	Virginia State University				
Wichita	1944	40	40.3	36	Virginia	2019	37	40.0	33
Limagrain					V SX-3	2171	20	39.3	19
Alabaster	2705	6	41.6	4	V SX-4	2028	4	40.8	4
Albatros	2440	4	42.7	4	Mean¹	2054	40	40.6	36
Artoga	2191	6	42.3	4					
MOMONT, France									
CHH2311	2324	4	43.9	4					
Chrome	2642	27	41.8	24					
Hekip	2690	9	42.1	9					
MH10G11	1844	4	43.0	4					
MH10L23	2551	4	43.3	4					

Data averaged over a 6-year period from 2009-2014.

¹Number of mean observations, not average value of observations per entry.

Vincennes, Indiana

Charles Mansfield
Vincennes University

Planted: 9/20/2013 at 4 lb/a in 6-in. rows
 Harvested: 6/25/2014
 Herbicides: 20 oz/a Treflan
 Insecticides: 2.75 oz/a Mavrik
 Irrigation: None
 Previous crop: Tomato and cantaloupe
 Soil test: 37-133 ppm P-K
 Fertilizer: 150-0-0-22 lb N-P-K-S fertilizer in spring
 Soil type: Lomax loam
 Elevation: 425 ft Latitude: 38° 44'N
 Comments: Crop establishment was excellent; however, cold winter temperatures caused some winter kill in many entries. Cool spring weather delayed development.

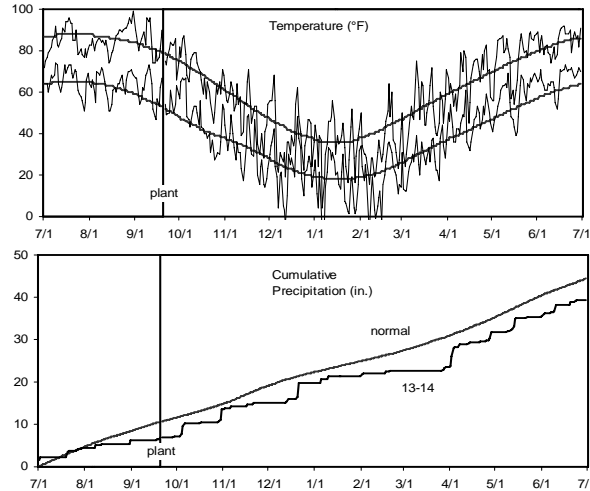


Table 9. Results for the 2014 National Winter Canola Variety Trial at Vincennes, IN

Name	Yield (lb/a)			Yield (% of test avg.)			Plant			Test		
	2014	2013	3-yr. ¹	2014	2014	2013	3-yr. ¹	height (in.)	Maturity (DOY)	weight (lb/bu)	Protein (%)	Oil (%)
CROPLAN by WinField												
HYCLASS 115W	2324	2094	2209	96	80.0	100	90.0	50	166	51.0	26.1	37.2
HYCLASS 125W	2046	1746	1896	84	66.7	100	83.3	50	166	50.9	25.9	38.2
HYCLASS 225W	2613	---	---	108	55.0	---	---	49	165	51.2	25.3	37.4
DL Seeds Inc.												
Argos	2172	---	---	90	46.7	---	---	47	166	51.4	23.0	39.8
Garou	2244	---	---	93	80.0	---	---	48	165	51.2	24.0	38.7
NPZ4005	2426	---	---	100	50.0	---	---	48	167	51.7	22.9	39.2
Popular	3144	---	---	130	75.0	---	---	51	166	50.5	23.8	42.3
Raffiness	2440	---	---	101	51.7	---	---	49	165	51.3	23.9	38.5
DuPont Pioneer												
46W94	2047	2628	2337	84	50.0	100	75.0	48	165	51.3	24.0	39.5
46W99	2227	2681	2454	92	53.3	100	76.7	50	166	51.6	24.8	37.2
Exp 1301	2363	2205	2284	98	50.0	100	75.0	49	167	51.2	23.3	39.8
Exp 1302	3017	---	---	124	50.0	---	---	51	167	51.4	23.4	41.1
Pioneer Exp1	2452	2762	2607	101	20.0	100	60.0	45	169	51.0	25.2	39.7
Pioneer Exp6	2919	---	---	120	65.0	---	---	49	168	51.1	25.6	38.9
PX112	2732	2145	2439	113	76.7	100	88.3	51	166	51.6	23.9	38.7
PX117	2717	2611	2664	112	68.3	100	84.2	52	166	51.5	24.4	39.6
High Plains Crop Development												
Claremore	2423	2563	2493	100	78.3	100	89.2	54	167	51.1	26.9	37.5
Kansas State University												
KSR07363	2551	1930	2241	105	81.7	100	90.8	50	165	51.5	25.3	38.1
KSUR21	2834	2184	2509	117	81.7	99.3	90.5	53	167	51.7	25.6	38.2
Riley	2768	1660	2214	114	76.7	99.3	88.0	52	167	51.1	25.9	38.3
Sumner	2164	2369	2267	89	75.0	100	87.5	52	165	52.0	26.7	36.5
Wichita	2246	2268	2257	93	85.0	100	92.5	54	165	51.6	26.6	37.3
Limagrain												
Alabaster	3010	---	---	124	46.7	---	---	50	167	51.2	23.8	38.9
Albatros	3264	---	---	135	68.3	---	---	53	167	51.1	24.7	39.7
Artoga	3143	---	---	130	53.3	---	---	51	167	50.7	23.8	39.3
MOMONT, France												
CHH2311	2139	---	---	88	20.0	---	---	49	169	50.1	24.4	40.5
Chrome	2432	3002	2717	100	28.3	99.3	63.8	47	168	50.0	24.3	39.5
Hekip	2761	3298	3030	114	30.0	100	65.0	49	168	51.1	24.1	38.4
MH10G11	1296	---	---	53	21.7	---	---	47	168	50.4	25.6	37.9
MH10L23	1781	---	---	73	30.0	---	---	47	168	50.5	24.5	38.5

Table 9. Results for the 2014 National Winter Canola Variety Trial at Vincennes, IN

Name	Yield (lb/a)			Yield (% of test avg.)				Plant height (in.)	Maturity (DOY)	Test weight (lb/bu)	Protein (%)	Oil (%)
	2014	2013	3-yr. ¹	2014	2014	2013	3-yr. ¹					
Monsanto / DEKALB												
DK Exstorm	2378	---	---	98	35.0	---	---	48	167	51.2	24.1	38.5
DK Imiron CL	2379	---	---	98	66.7	---	---	49	166	51.5	26.1	34.1
DK Sensei	2523	---	---	104	38.3	---	---	50	166	51.1	26.2	35.8
DKW41-10	2274	1997	2135	94	75.0	100	87.5	46	164	53.1	27.1	34.1
DKW44-10	2487	1095	1791	103	80.0	100	90.0	49	165	51.4	25.2	36.2
DKW45-25	1804	---	---	74	76.7	---	---	50	164	51.4	25.9	36.2
DKW46-15	2475	1699	2087	102	76.7	100	88.3	50	165	51.1	24.6	37.8
DKW47-15	2000	2069	2035	83	48.3	100	74.2	49	165	50.9	26.1	36.3
Rubisco Seeds LLC												
Dimension	2789	2638	2713	115	45.0	100	72.5	51	168	50.8	23.8	40.3
Edimax CL	2410	3262	2836	99	63.3	100	81.7	53	166	51.5	24.9	35.5
Hornet	2882	2387	2635	119	61.7	99.3	80.5	55	168	51.3	24.1	37.3
Inspiration	2652	2920	2786	109	28.3	100	64.2	50	168	51.4	24.6	39.1
Mercedes	3040	3308	3174	125	50.0	100	75.0	50	166	51.7	23.3	38.6
Safran	2887	2781	2834	119	55.0	100	77.5	54	167	51.0	25.4	35.7
Sitro	2289	3025	2657	94	55.0	100	77.5	49	166	51.6	24.3	38.1
Visby	1717	2771	2244	71	68.3	100	84.2	50	165	51.4	23.4	37.5
Star Specialty Seed, Inc.												
Star 915W	2314	---	---	95	78.3	---	---	51	165	51.0	25.9	38.3
Syngenta												
NK Petrol	2395	2666	2530	99	30.0	100	65.0	47	166	50.8	25.7	37.9
NK Technic	1797	2507	2152	74	26.7	99.3	63.0	45	167	51.4	24.7	37.2
SY Marten	1954	---	---	81	41.7	---	---	47	167	51.5	23.4	38.3
SY Saveo	2334	---	---	96	25.0	---	---	47	168	51.1	22.9	38.8
Virginia State University												
Virginia	2165	1966	2065	89	36.7	99.3	68.0	46	167	50.5	24.6	38.6
VSX-3	2183	2172	2178	90	31.7	100	65.8	46	166	50.8	24.8	37.2
VSX-4	2057	---	---	85	33.3	---	---	47	167	50.2	26.6	38.0
Mean	2424	2447	---	---	54.5	99.8	---	49	166	51.2	24.8	38.1
CV	18	14	---	---	24.5	0.7	---	5	1	0.9	3.3	2.9
LSD (0.05)	721	553	---	---	21.6	NS	---	4	2	0.9	1.6	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.

¹3-year average includes 2012, 2013, and 2014.

Cape Girardeau, Missouri

Indi Braden
Southeast Missouri State University

Planted: 9/30/2013 at 5 lb/a in 24-in. rows
Harvested: 6/9 - 6/12/2014
Herbicides: None
Insecticides: None
Irrigation: None
Previous crop: Cover crop study
Soil test: NA
Fertilizer: None
Soil type: Menfro silt loam
Elevation: 394 ft Latitude: 37° 18'N
Comments: Yields were extremely low, but oil contents were high. Differential winterkill was observed. Only two replications were reported because of weed pressure.

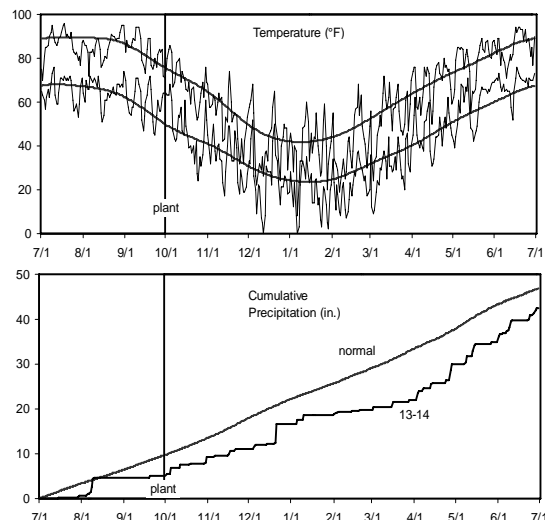


Table 10. Results for the 2014 National Winter Canola Variety Trial at Cape Girardeau, MO

Name	Yield (lb/a)			Yield (% of test avg.)			Plant			Test		
	2014	2013	3-yr.	2014	2014	2013	3-yr.	height (in.)	Shatter (%)	weight (lb/bu)	Protein (%)	Oil (%)
CROPLAN by WinField												
HYCLASS 115W	---	---	---	---	7.5	---	---	22	30.0	---	19.7	43.4
HYCLASS 125W	---	---	---	---	25.0	---	---	24	32.5	---	20.9	44.2
HYCLASS 225W	---	---	---	---	50.0	---	---	25	10.0	---	19.6	45.1
DL Seeds Inc.												
Argos	---	---	---	---	45.0	---	---	24	42.5	---	20.4	45.9
Garou	---	---	---	---	80.0	---	---	25	7.5	---	18.7	44.6
NPZ4005	---	---	---	---	40.0	---	---	30	27.5	---	18.7	45.2
Popular	---	---	---	---	27.5	---	---	24	20.0	---	18.6	46.4
Raffiness	---	---	---	---	42.5	---	---	24	3.5	---	19.6	43.5
DuPont Pioneer												
46W94	---	---	---	---	32.5	---	---	26	22.5	---	17.6	46.8
46W99	---	---	---	---	42.5	---	---	23	13.5	---	18.2	44.8
Exp 1301	---	---	---	---	65.0	---	---	23	5.0	---	18.0	46.2
Exp 1302	---	---	---	---	57.5	---	---	27	18.5	---	19.0	43.6
Pioneer Exp1	---	---	---	---	37.5	---	---	25	22.5	---	20.4	44.5
Pioneer Exp6	---	---	---	---	25.0	---	---	27	10.0	---	19.0	43.9
PX112	---	---	---	---	50.0	---	---	28	7.5	---	19.6	44.8
PX117	---	---	---	---	62.5	---	---	25	10.0	---	18.2	46.1
High Plains Crop Development												
Claremore	---	---	---	---	67.5	---	---	27	3.5	---	19.6	44.8
Kansas State University												
KSR07363	---	---	---	---	70.0	---	---	28	5.0	---	18.3	44.8
KSUR21	---	---	---	---	62.5	---	---	29	15.0	---	20.7	41.9
Riley	---	---	---	---	32.5	---	---	25	10.0	---	19.3	45.5
Sumner	---	---	---	---	27.5	---	---	25	30.0	---	18.9	43.7
Wichita	---	---	---	---	67.5	---	---	28	32.5	---	17.7	47.3
Limagrain												
Alabaster	---	---	---	---	20.0	---	---	25	25.0	---	19.4	44.4
Albatros	---	---	---	---	25.0	---	---	27	12.5	---	19.2	44.9
Artoga	---	---	---	---	55.0	---	---	27	17.5	---	18.9	44.5
MOMONT, France												
CHH2311	---	---	---	---	35.0	---	---	22	8.5	---	18.9	45.8
Chrome	---	---	---	---	30.0	---	---	25	6.0	---	17.7	45.9
Hekip	---	---	---	---	27.5	---	---	26	17.5	---	17.9	47.0
MH10G11	---	---	---	---	52.2	---	---	28	23.8	---	19.9	43.6
MH10L23	---	---	---	---	55.0	---	---	26	17.5	---	19.0	45.1

Table 10. Results for the 2014 National Winter Canola Variety Trial at Cape Girardeau, MO

Name	Yield (lb/a)			Yield (% of test avg.)			Plant		Test			
	2014	2013	3-yr.	2014	2013	3-yr.	height (in.)	Shatter (%)	weight (lb/bu)	Protein (%)	Oil (%)	
Monsanto / DEKALB												
DK Exstorm	---	---	---	---	62.5	---	---	25	4.0	---	19.4	44.9
DK Imiron CL	---	---	---	---	50.0	---	---	26	6.0	---	19.8	43.7
DK Sensei	---	---	---	---	70.0	---	---	29	5.0	---	20.6	41.1
DKW41-10	---	---	---	---	60.0	---	---	26	7.5	---	20.1	43.4
DKW44-10	---	---	---	---	72.5	---	---	25	10.0	---	18.2	46.3
DKW45-25	---	---	---	---	42.2	---	---	31	---	---	21.9	38.6
DKW46-15	---	---	---	---	65.0	---	---	25	10.0	---	19.0	43.2
DKW47-15	---	---	---	---	15.0	---	---	27	20.0	---	21.5	43.0
Rubisco Seeds LLC												
Dimension	---	---	---	---	62.5	---	---	27	10.0	---	20.0	43.8
Edimax CL	---	---	---	---	17.5	---	---	24	7.5	---	19.7	42.0
Hornet	---	---	---	---	41.0	---	---	29	15.0	---	18.8	44.7
Inspiration	---	---	---	---	52.5	---	---	25	7.5	---	19.4	45.0
Mercedes	---	---	---	---	72.5	---	---	27	3.5	---	20.0	44.7
Safran	---	---	---	---	55.0	---	---	30	7.5	---	19.2	43.8
Sitro	---	---	---	---	45.0	---	---	26	7.5	---	20.4	43.1
Visby	---	---	---	---	40.0	---	---	27	12.5	---	19.1	43.6
Star Specialty Seed, Inc.												
Star 915W	---	---	---	---	62.5	---	---	28	6.0	---	19.4	45.1
Syngenta												
NK Petrol	---	---	---	---	47.2	---	---	24	53.8	---	20.7	44.1
NK Technic	---	---	---	---	72.5	---	---	27	10.0	---	20.1	44.6
SY Marten	---	---	---	---	47.5	---	---	28	6.0	---	18.9	44.9
SY Saveo	---	---	---	---	82.2	---	---	17	---	---	20.4	45.4
Virginia State University												
Virginia	---	---	---	---	67.5	---	---	24	5.0	---	19.3	43.4
VSX-3	---	---	---	---	45.0	---	---	26	15.0	---	19.0	46.1
VSX-4	---	---	---	---	60.0	---	---	22	10.0	---	20.6	44.7
Mean	---	---	---	---	48.2	---	---	26	13.8	---	19.4	44.5
CV	---	---	---	---	53.9	---	---	11	87.6	---	6.7	5.4
LSD (0.05)	---	---	---	---	NS	---	---	NS	NS	---	NS	NS

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: 9/27/2013
Harvested: 6/16/2014
Herbicides: None
Insecticides: None
Irrigation: None
Previous crop: Soybean
Soil test: NA
Fertilizer: NA
Soil type: Crider silt loam
Elevation: 706 ft Latitude: 36° 32'N
Comments: Some winter stand loss in the plot resulted in lower than normal yields. Winter survival reported as spring stand percent. Excellent oil contents reported.

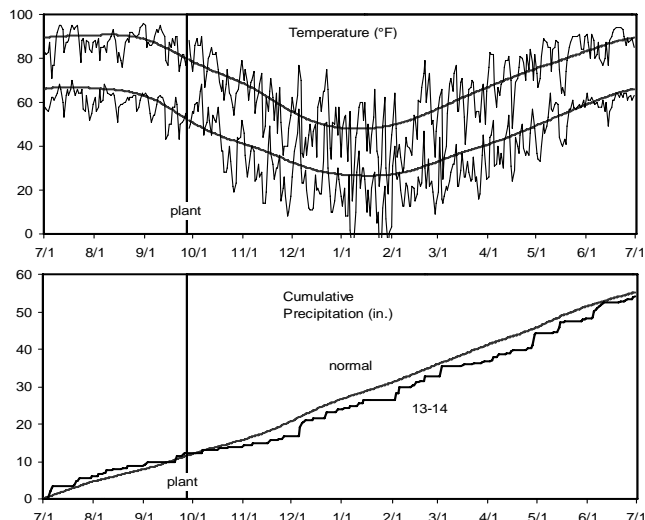


Table 11. Results for the 2014 National Winter Canola Variety Trial at Springfield, TN

Name	Yield (lb/a)			Yield (% of test avg.)			Winter survival (%)		Plant height (in.)	Spring stand (%)	Test weight (lb/bu)	Protein (%)	Oil (%)
	2014	2013	3-yr. ¹	2014	2014	2013	3-yr.						
CROPLAN by WinField													
HYCLASS 115W	1880	2193	2113	88	---	---	---	46	100	47.3	22.3	43.5	
HYCLASS 125W	1824	2348	2236	86	---	---	---	49	100	47.3	23.2	42.8	
HYCLASS 225W	1624	---	---	76	---	---	---	46	78.3	47.8	22.5	43.0	
DL Seeds Inc.													
Argos	2137	---	---	101	---	---	---	46	86.7	49.8	20.2	44.4	
Garou	1243	---	---	58	---	---	---	49	58.3	47.7	22.3	43.3	
NPZ4005	2330	---	---	110	---	---	---	47	100	48.6	20.3	46.1	
Popular	2514	---	---	118	---	---	---	47	100	48.7	21.7	45.5	
Raffiness	2054	---	---	97	---	---	---	45	100	49.4	20.3	46.4	
DuPont Pioneer													
46W94	1040	2461	2030	49	---	---	---	46	46.7	48.5	21.5	43.8	
46W99	1315	2065	2076	62	---	---	---	43	73.3	48.2	21.4	44.2	
Exp 1301	2024	---	---	95	---	---	---	46	100	48.8	20.9	46.1	
Exp 1302	2265	---	---	107	---	---	---	46	100	49.8	22.2	44.2	
Pioneer Exp1	2246	---	---	106	---	---	---	45	100	48.1	21.4	46.6	
Pioneer Exp6	2263	---	---	106	---	---	---	46	100	49.1	23.0	43.2	
PX112	2289	---	---	108	---	---	---	45	91.7	47.8	21.7	44.7	
PX117	2480	---	---	117	---	---	---	45	100	49.0	22.8	44.6	
High Plains Crop Development													
Claremore	1891	2264	2328	89	---	---	---	46	100	48.0	24.3	43.0	
Kansas State University													
KSR07363	2017	1817	1917	95	---	---	---	44	86.7	48.1	22.5	43.1	
KSUR21	1996	1464	1730	94	---	---	---	48	91.7	49.8	23.5	42.3	
Riley	1710	2546	2218	80	---	---	---	44	83.3	48.9	23.3	43.1	
Sumner	2274	2180	2278	107	---	---	---	46	100	49.9	23.7	42.6	
Wichita	1963	2463	2342	92	---	---	---	44	100	49.3	23.4	42.0	
Limagrain													
Alabaster	2769	---	---	130	---	---	---	50	100	48.7	21.2	43.6	
Albatros	2594	---	---	122	---	---	---	48	100	48.9	20.8	45.3	
Artoga	2928	---	---	138	---	---	---	49	100	48.2	21.0	42.9	
MOMONT, France													
CHH2311	2200	---	---	103	---	---	---	46	100	48.6	21.2	45.0	
Chrome	2082	2708	2893	98	---	---	---	48	100	47.8	20.0	45.1	
Hekip	2340	2918	2629	110	---	---	---	44	100	48.5	20.5	44.8	
MH10G11	1163	---	---	55	---	---	---	46	41.7	46.7	22.1	44.7	
MH10L23	1611	---	---	76	---	---	---	47	91.7	47.3	21.8	45.1	

Table 11. Results for the 2014 National Winter Canola Variety Trial at Springfield, TN

Name	Yield (lb/a)			Yield (% of test avg.)			Winter survival (%)		Plant height (in.)	Spring stand (%)	Test weight (lb/bu)	Protein (%)	Oil (%)
	2014	2013	3-yr. ¹	2014	2013	3-yr.	2014	2013					
Monsanto / DEKALB													
DK Exstorm	2471	---	---	116	---	---	---	48	100	48.9	20.8	44.0	
DK Imiron CL	2782	---	---	131	---	---	---	46	100	49.3	22.8	41.6	
DK Sensei	2642	---	---	124	---	---	---	44	100	49.4	22.1	42.4	
DKW41-10	2239	2190	2247	105	---	---	---	41	100	49.1	22.6	40.8	
DKW44-10	1964	2462	2193	92	---	---	---	36	100	50.7	23.8	41.1	
DKW45-25	1431	---	---	67	---	---	---	44	66.7	48.0	23.0	41.8	
DKW46-15	1937	2075	2007	91	---	---	---	43	100	48.4	22.4	43.9	
DKW47-15	1223	2059	1984	58	---	---	---	40	66.7	46.0	23.7	42.7	
Rubisco Seeds LLC													
Dimension	2584	2492	2538	122	---	---	---	48	100	49.6	21.5	41.1	
Edimax CL	1882	2896	2761	89	---	---	---	52	76.7	49.5	20.5	44.1	
Hornet	2612	2388	2631	123	---	---	---	52	100	48.5	21.3	43.8	
Inspiration	2463	2961	2712	116	---	---	---	52	100	49.6	21.4	44.4	
Mercedes	2138	2759	2649	101	---	---	---	47	100	48.6	20.3	44.5	
Safran	2507	2969	2907	118	---	---	---	48	100	49.6	21.7	42.3	
Sitro	2168	2958	2784	102	---	---	---	50	75.0	49.0	20.6	44.3	
Visby	2110	3056	2683	99	---	---	---	48	100	48.1	20.5	43.6	
Star Specialty Seed, Inc.													
Star 915W	1777	---	---	84	---	---	---	47	83.3	47.6	24.2	42.4	
Syngenta													
NK Petrol	2366	3036	2701	111	---	---	---	52	100	49.8	21.5	42.6	
NK Technic	2286	2122	2204	108	---	---	---	49	100	49.8	20.9	42.1	
SY Marten	2448	---	---	115	---	---	---	40	100	49.1	20.7	44.0	
SY Saveo	2761	---	---	130	---	---	---	47	100	48.0	19.6	43.8	
Virginia State University													
Virginia	2315	2450	2317	109	---	---	---	45	100	49.3	22.2	42.3	
VSX-3	2509	1975	2425	118	---	---	---	42	100	48.6	22.7	42.4	
VSX-4	2130	---	---	100	---	---	---	47	100	47.6	23.5	42.0	
Mean	2126	2519	---	---	---	---	---	46	92.5	48.6	21.9	43.6	
CV	20	15	---	---	---	---	---	---	16.8	1.7	3.2	1.9	
LSD (0.05)	679	594	---	---	---	---	---	---	26.0	1.6	1.4	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.

¹3-year average includes 2012, 2013, and 2014.

Table 12. 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
CROPLAN by WinField					Monsanto / DEKALB				
HYCLASS 115W	1743	21	40.5	19	DK Exstorm	2425	2	41.3	2
HYCLASS 125W	1777	12	40.0	11	DK Imiron CL	2581	2	37.9	2
HYCLASS 225W	2119	2	40.2	2	DK Sensei	2583	2	39.1	2
DL Seeds Inc.					Rubisco Seeds LLC				
Argos	2155	2	42.1	2	DKW41-10	1757	24	39.2	21
Garou	1744	2	41.0	2	DKW44-10	1693	12	38.3	11
NPZ4005	2378	2	42.7	2	DKW45-25	1618	2	39.0	2
Popular	2829	2	43.9	2	DKW46-15	1656	24	41.6	21
Raffiness	2247	2	42.4	2	DKW47-15	1752	24	40.3	21
DuPont Pioneer					Star Specialty Seed, Inc.				
46W94	2273	8	41.9	7	Star 915W	2046	2	40.4	2
46W99	2218	8	42.0	7	Syngenta				
Exp 1301	2571	5	43.3	5	NK Petrol	2800	5	40.4	5
Exp 1302	2641	2	42.7	2	NK Technic	2328	5	39.7	5
Pioneer Exp1	2796	5	43.7	5	SY Marten	2201	2	41.2	2
Pioneer Exp6	2591	2	41.0	2	SY Saveo	2547	2	41.3	2
PX112	2542	5	41.3	5	Virginia State University				
PX117	2510	5	41.6	5	Virginia	2155	30	40.7	26
High Plains Crop Development					VSX-3				
Claremore	2256	30	41.1	26	VSX-4	2093	2	40.0	2
Kansas State University					Mean¹				
KSR07363	2144	5	39.8	5		2184	32	41.5	28
KSUR21	2201	5	40.7	5	Limagrain				
Riley	2090	30	42.0	26	Alabaster	2889	2	41.3	2
Sumner	2073	30	41.4	26	Albatros	2929	2	42.5	2
Wichita	2185	30	41.2	26	Artoga	3036	2	41.1	2
MOMONT, France									
CHH2311	2170	2	42.8	2					
Chrome	2457	27	42.7	24					
Hekip	2984	5	41.6	5					
MH10G11	1230	2	41.3	2					
MH10L23	1696	2	41.8	2					

Data averaged over a 6-year period from 2009-2014.

¹Number of mean observations, not average value of observations per entry.

Fruita, Colorado

Calvin Pearson
Colorado State University

Planted: 8/29/2013 in 30-in. rows
Harvested: 7/10/2014
Herbicides: 1.5 pt/a Treflan
Insecticides: None
Irrigation: Furrow irrigated
Previous crop: Wheat
Soil test: NA
Fertilizer: 50-0-0 lb N-P-K fertilizer in spring
Soil type: Youngston clay loam
Elevation: 4604 ft Latitude: 39° 11'N
Comments: Yields were good but lower than normal. Very high reported oil contents.

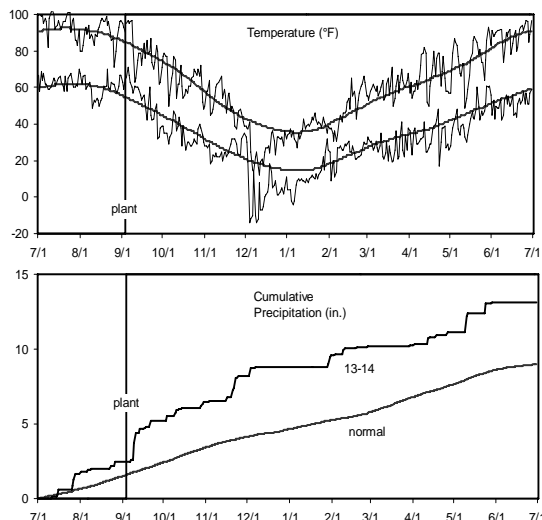


Table 13. Results for the 2014 National Winter Canola Variety Trial at Fruita, CO

Name	Yield (lb/a)			Yield (% of test avg.)			50% Test			Test		
	2014	2013	2-yr.	2014	2014	2013	2-yr.	bloom (DOY)	Moisture (%)	weight (lb/bu)	Protein (%)	Oil (%)
CROPLAN by WinField												
HYCLASS 115W	1326	1717	1522	78	---	---	---	108	5.1	43.7	20.0	42.2
HYCLASS 125W	1566	1629	1597	92	---	---	---	108	4.9	46.4	19.0	43.7
DL Seeds Inc.												
Argos	1541	---	---	90	---	---	---	107	4.7	46.4	17.8	45.1
Garou	2033	---	---	119	---	---	---	107	4.9	45.9	17.8	44.6
NPZ4005	1768	---	---	104	---	---	---	107	4.8	47.4	17.9	46.3
Popular	2007	---	---	118	---	---	---	107	4.8	49.4	18.2	48.0
Raffiness	1869	---	---	110	---	---	---	108	5.0	47.5	17.4	47.7
DuPont Pioneer												
46W94	1823	2121	1972	107	---	---	---	108	4.8	45.8	18.4	43.8
46W99	1818	2348	2083	107	---	---	---	107	4.8	46.0	18.2	44.9
Exp 1301	1806	2879	2342	106	---	---	---	109	5.0	46.4	18.5	45.7
Exp 1302	1894	---	1894	111	---	---	---	108	5.0	47.6	19.8	44.5
Pioneer Exp1	1944	2386	2165	114	---	---	---	108	4.9	48.2	18.4	46.6
Pioneer Exp6	2058	---	2058	121	---	---	---	109	4.8	48.8	18.9	45.2
PX112	1969	2197	2083	115	---	---	---	109	4.8	47.6	17.9	46.4
PX117	2323	2689	2506	136	---	---	---	108	4.8	49.0	17.9	47.7
High Plains Crop Development												
Claremore	1060	1654	1357	62	---	---	---	110	4.9	41.8	20.1	40.5
Kansas State University												
KS4410	1572	---	1572	92	---	---	---	109	4.8	43.1	19.6	41.5
KS4506	1338	---	1338	78	---	---	---	108	5.0	44.1	18.6	43.6
KS4549	1541	---	1541	90	---	---	---	109	5.0	43.9	18.8	43.7
KSR07363	1363	2058	1711	80	---	---	---	109	5.0	43.4	19.2	42.3
Riley	1995	2374	2185	117	---	---	---	107	4.8	46.6	18.7	44.9
Sumner	1326	1629	1477	78	---	---	---	106	4.8	44.8	20.3	43.2
Wichita	1528	1995	1761	90	---	---	---	109	4.8	44.4	19.0	43.7
Limagrain												
Alabaster	1604	---	---	94	---	---	---	109	5.0	45.8	17.9	43.8
Albatros	2033	---	---	119	---	---	---	108	4.7	48.1	17.3	47.3
Artoga	1932	---	---	113	---	---	---	107	5.0	45.7	17.5	45.4
MOMONT, France												
CHH2311	1944	---	---	114	---	---	---	109	4.8	47.6	17.9	46.0
Chrome	2020	2942	2481	118	---	---	---	108	5.0	46.6	17.7	44.9
Hekip	1969	3005	2487	115	---	---	---	107	4.9	46.6	18.3	44.1
MH10G11	1730	---	---	101	---	---	---	108	4.7	45.1	18.3	45.7
MH10L23	1906	---	---	112	---	---	---	108	4.9	47.5	18.2	45.8

Table 13. Results for the 2014 National Winter Canola Variety Trial at Fruita, CO

Name	Yield (lb/a)			Yield (% of test avg.)			50% bloom			Test		
	2014	2013	2-yr.	2014	2014	2013	2-yr.	(DOY)	Moisture (%)	weight (lb/bu)	Protein (%)	Oil (%)
Monsanto / DEKALB												
DKW41-10	1313	1427	1370	77	---	---	---	110	5.0	45.1	19.4	40.8
DKW44-10	1124	1768	1446	66	---	---	---	106	4.8	43.4	21.5	40.6
DKW45-25	1490	---	---	87	---	---	---	108	4.8	44.3	18.3	40.9
DKW46-15	1262	2045	1654	74	---	---	---	109	4.8	44.5	19.3	43.8
DKW47-15	1465	1477	1471	86	---	---	---	108	4.9	41.5	20.0	41.4
Rubisco Seeds LLC												
Dimension	1730	2348	2039	101	---	---	---	108	5.0	48.7	18.7	46.2
Edimax CL	1805	2449	2127	106	---	---	---	109	5.0	46.5	17.2	45.7
Hornet	1490	2374	1932	87	---	---	---	108	4.9	45.3	18.1	42.9
Inspiration	1566	2121	1843	92	---	---	---	108	4.8	46.1	18.3	45.3
Mercedes	2222	2563	2393	130	---	---	---	108	4.8	47.2	17.4	46.6
Safran	1995	2348	2172	117	---	---	---	109	4.8	48.3	18.1	45.1
Sitro	1704	2235	1970	100	---	---	---	108	4.8	45.7	18.1	43.8
Visby	2071	2563	2317	121	---	---	---	107	4.9	44.3	18.0	42.8
Virginia State University												
Virginia	1401	2222	1812	82	---	---	---	109	4.9	43.8	19.5	41.6
VSX-3	1528	1755	1641	90	---	---	---	109	5.0	45.6	20.0	40.0
VSX-4	1402	---	---	82	---	---	---	108	5.0	44.8	18.8	42.2
Mean	1706	2213	---	---	---	---	---	108	4.9	45.9	18.6	44.2
CV	12	16	---	---	---	---	---	1	2.9	3.5	3.3	2.5
LSD (0.05)	322	571	---	---	---	---	---	0	NS	2.6	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.

Rocky Ford, Colorado

Jeff Davidson, Mike Bartolo, and Kevin Tanabe
Colorado State University

Planted: 9/3/2013
Harvested: 7/8/2014
Herbicides: 1.5 pt/a Trifluralin 4EC
Insecticides: None
Irrigation: 24 in., flood irrigated 6 times
Fertilizer: 23-96-0 lb N-P-K fertilizer in fall
92-0-0 lb N-P-K fertilizer in spring
Soil type: Rocky Ford silty clay loam
Elevation: 4178 ft Latitude: 38° 02'N
Comments: Extremely dry conditions at harvest resulted in significant shattering and reduced yields.

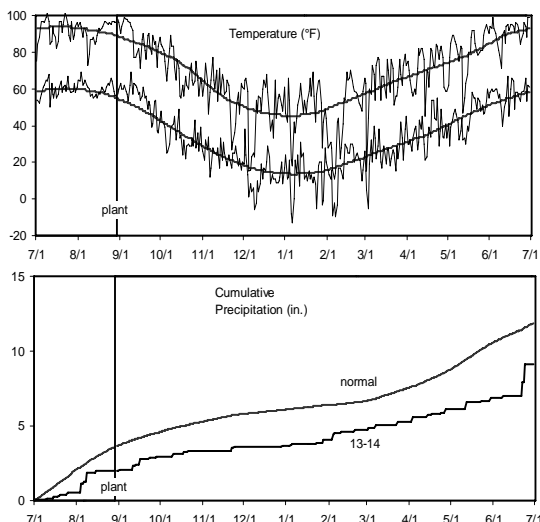


Table 14. Results for the 2014 National Winter Canola Variety Trial at Rocky Ford, CO

Name	Yield (lb/a) ¹			Yield (% of test avg.)				Plant		Test		
	2014	2012	2-yr.	2014	2014	2012	2-yr.	height (in.)	Moisture (%)	weight (lb/bu)	Protein (%)	Oil (%)
CROPLAN by WinField												
HYCLASS 115W	254	3236	1745	51	73.3	---	---	36	5.4	44.6	27.5	33.9
HYCLASS 125W	460	2249	1355	92	70.0	---	---	39	4.9	47.3	26.3	36.9
DL Seeds Inc.												
Argos	931	---	---	187	83.3	---	---	40	5.8	47.6	24.2	38.8
Garou	609	---	---	122	76.7	---	---	38	5.4	46.3	26.2	35.3
Mercedes	565	---	---	113	70.0	---	---	39	7.0	46.7	24.8	39.8
Popular	316	---	---	63	66.7	---	---	37	5.8	47.2	26.2	40.1
Raffiness	336	---	---	67	60.0	---	---	37	5.7	46.7	24.8	39.5
DuPont Pioneer												
46W94	324	3298	1811	65	63.3	---	---	38	5.5	47.2	24.8	37.1
46W99	569	3106	1838	114	70.0	---	---	39	5.6	46.9	25.4	37.1
Exp 1301	335	---	---	67	60.0	---	---	41	6.3	43.4	24.2	39.9
Exp 1302	638	---	---	128	76.7	---	---	39	6.8	45.3	24.6	36.8
Pioneer Exp1	328	---	---	66	63.3	---	---	40	5.5	47.2	26.3	36.2
Pioneer Exp6	831	---	---	167	80.0	---	---	42	5.5	48.3	24.8	42.0
PX112	813	---	---	163	80.0	---	---	40	5.8	47.1	24.9	40.8
PX117	1052	---	---	211	80.0	---	---	40	5.6	47.3	25.4	39.2
High Plains Crop Development												
Claremore	166	2499	1333	33	63.3	---	---	39	5.3	---	29.7	31.8
Kansas State University												
KSR07363	408	---	---	82	76.7	---	---	36	5.5	45.5	26.8	35.5
Riley	614	3694	2154	123	90.0	---	---	37	5.0	44.1	26.3	36.6
Wichita	494	3552	2023	99	73.3	---	---	37	5.6	48.1	28.1	34.6
MOMONT, France												
CHH2311	153	---	---	31	60.0	---	---	37	5.9	39.3	25.9	37.0
Chrome	131	3455	1793	26	60.0	---	---	39	5.9	---	27.2	35.8
Hekip	259	---	---	52	66.7	---	---	39	5.7	43.2	26.2	34.2
MH10G11	135	---	---	27	50.0	---	---	40	5.3	---	26.6	36.7
MH10L23	459	---	---	92	70.0	---	---	36	5.6	48.0	25.8	38.0
Monsanto / DEKALB												
DKW41-10	175	2972	1573	35	60.0	---	---	35	5.3	37.5	28.3	32.7
DKW44-10	298	2706	1502	60	70.0	---	---	34	5.3	43.1	28.3	35.3
DKW45-25	522	---	---	105	83.3	---	---	38	5.4	45.3	25.4	37.1
DKW46-15	302	3611	1956	61	53.3	---	---	36	4.8	44.0	27.3	36.3
DKW47-15	374	2786	1580	75	60.0	---	---	38	5.0	46.2	26.4	37.5

Table 14. Results for the 2014 National Winter Canola Variety Trial at Rocky Ford, CO

Name	Yield (lb/a) ¹			Yield (% of test avg.)			Plant		Test		
	2014	2012	2-yr.	2014	2012	2-yr.	height (in.)	Moisture (%)	weight (lb/bu)	Protein (%)	Oil (%)
Rubisco Seeds LLC											
Dimension	107	---	---	22	50.0	---	38	5.7	---	27.8	37.4
Edimax CL	572	3240	1906	115	76.7	---	39	5.9	46.5	23.9	35.9
Hornet	890	3132	2011	179	80.0	---	43	4.8	45.8	24.9	37.2
Inspiration	903	---	---	181	80.0	---	40	5.1	46.6	25.2	38.1
Safran	872	3286	2079	175	83.3	---	41	5.1	45.9	27.0	35.1
Sitro	967	3043	2005	194	83.3	---	39	5.9	47.3	24.5	37.6
Visby	763	2872	1818	153	83.3	---	38	5.0	43.3	23.5	37.3
Mean	498	3007	---	---	70.7	---	38	5.5	45.9	26.0	37.0
CV	32	16	---	---	9.9	---	5	14.9	5.5	3.4	5.3
LSD (0.05)	259	793	---	---	11.4	---	3	NS	NS	1.8	4.0

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.

¹Use 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: 9/27/2013 at 5 lb/a in 9-in. rows
 Herbicides: 13 oz/a Assure II
 Insecticides: None
 Irrigation: None
 Previous crop: Wheat
 Fertilizer: 73-0-0 lb N-P-K fertilizer in fall
 Soil type: Blanket silt loam
 Elevation: 1393 ft Latitude: 37° 47'N
 Comments: A non-uniform seedbed caused variable emergence. Differential winterkill was reported, but the loss of plants caused the plot to be abandoned.

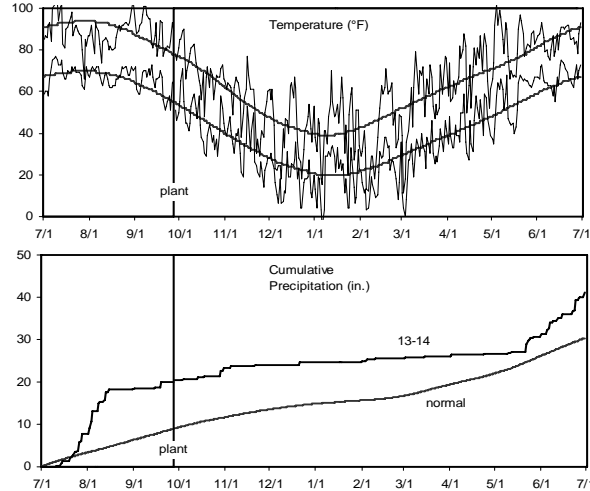


Table 15. Results for the 2014 National Winter Canola Variety Trial at Andale, KS

Name	Yield (lb/a)			Yield (% of test avg.)			Winter survival (1-5) ¹	Fall stand (0-10)	Moisture (%)	Test weight (lb/bu)	Protein (%)	Oil (%)
	2014	2013	3-yr.	2014	2013	3-yr.						
CROPLAN by WinField												
HyCLASS 115W	---	2892	---	---	2.3	---	---	4.3	---	---	---	---
HyCLASS 125W	---	2614	---	---	3.3	---	---	4.7	---	---	---	---
DuPont Pioneer												
46W94	---	3148	---	---	4.9	---	---	7.3	---	---	---	---
46W99	---	2950	---	---	3.8	---	---	3.0	---	---	---	---
Kansas State University												
KSR07363	---	---	---	---	1.6	---	---	5.7	---	---	---	---
Riley	---	2823	---	---	1.2	---	---	4.3	---	---	---	---
Wichita	---	3067	---	---	1.8	---	---	5.7	---	---	---	---
Limagrain												
Alabaster	---	---	---	---	3.8	---	---	7.3	---	---	---	---
Albatros	---	---	---	---	2.6	---	---	4.3	---	---	---	---
Artoga	---	---	---	---	4.9	---	---	4.7	---	---	---	---
MOMONT, France												
Chrome	---	3380	---	---	5.0	---	---	7.3	---	---	---	---
Monsanto / DEKALB												
DKW41-10	---	2590	---	---	2.2	---	---	6.0	---	---	---	---
DKW44-10	---	2823	---	---	1.8	---	---	6.3	---	---	---	---
DKW45-25	---	---	---	---	1.4	---	---	5.7	---	---	---	---
DKW46-15	---	2776	---	---	1.3	---	---	6.7	---	---	---	---
DKW47-15	---	2544	---	---	2.3	---	---	7.0	---	---	---	---
Rubisco Seeds LLC												
Edimax CL	---	---	---	---	3.9	---	---	7.3	---	---	---	---
Hornet	---	2416	---	---	3.0	---	---	7.7	---	---	---	---
Safran	---	2799	---	---	4.8	---	---	4.7	---	---	---	---
Sitro	---	3032	---	---	4.0	---	---	7.0	---	---	---	---
Visby	---	2834	---	---	4.3	---	---	5.7	---	---	---	---
Star Specialty Seed, Inc.												
Star 915W	---	---	---	---	2.7	---	---	6.3	---	---	---	---
Syngenta												
NK Petrol	---	3218	---	---	4.0	---	---	6.7	---	---	---	---
NK Technic	---	3438	---	---	3.0	---	---	8.0	---	---	---	---
Mean	---	2918	---	---	3.1	---	---	6.0	---	---	---	---
CV	---	10	---	---	25.4	---	---	18.7	---	---	---	---
LSD (0.05)	---	473	---	---	1.1	---	---	1.8	---	---	---	---

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.

¹Winter survival rated on a scale of 1=100-80% survival and 5=20-0% survival.

Belleville, Kansas

Jane Lingenfelter and Andrew Esser
Kansas State University

Planted: 9/20/2013 at 5 lb/a in 9-in. rows
 Swathed: 6/30/2014
 Harvested: 7/11/2014
 Herbicides: 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
 73-0-0 lb N-P-K fertilizer in spring
 Soil type: Crete silt loam
 Elevation: 1530 ft Latitude: 39° 48'N
 Comments: Extreme cold over a long period caused winterkill. Spring drought resulted in very poor yields.

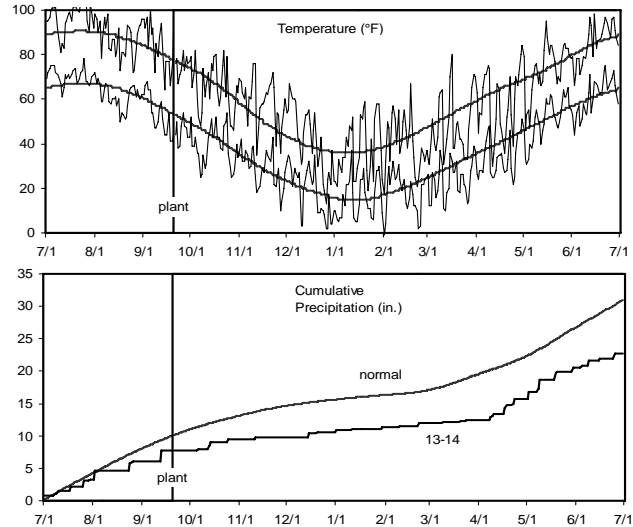


Table 16. Results for the 2014 National Winter Canola Variety Trial at Belleville, KS

Name	Yield (lb/a) ¹			Yield (% of test avg.)	Winter survival (1-5) ²			Plant height (in.)	Moisture (%)	Test		
	2014	2013	3-yr. ³		2014	2014	2013			3-yr. ³	weight (lb/bu)	Protein (%)
CROPLAN by WinField												
HYCLASS 115W	486	2509	2182	99	3.0	---	---	29	9.7	---	30.2	34.3
HYCLASS 125W	0	2939	2221	0	3.7	---	---	28	---	---	---	---
HYCLASS 225W	613	---	---	125	2.8	---	---	27	7.6	---	30.1	34.1
DL Seeds Inc.												
Argos	1142	---	---	234	2.8	---	---	31	7.8	---	29.3	35.6
Garou	148	---	---	30	3.3	---	---	29	11.2	---	29.1	36.2
NPZ4005	902	---	---	185	3.2	---	---	31	7.9	---	29.5	34.9
Popular	348	---	---	71	3.5	---	---	29	9.1	---	29.1	36.6
Raffiness	389	---	---	79	3.8	---	---	33	9.9	---	29.3	35.2
DuPont Pioneer												
46W94	0	3113	2454	0	4.5	---	---	33	---	---	---	---
46W99	0	2881	2244	0	5.0	---	---	---	---	---	---	---
Exp 1301	480	3659	2070	98	3.8	---	---	32	6.7	---	28.9	35.4
Exp 1302	782	---	---	160	2.8	---	---	27	8.6	---	29.7	35.9
Pioneer Exp1	0	3194	1597	0	4.7	---	---	24	---	---	---	---
Pioneer Exp6	469	---	---	96	3.3	---	---	32	13.4	---	30.0	35.4
PX112	791	3299	2045	162	2.3	---	---	31	9.1	---	29.0	34.8
PX117	780	3276	2028	160	2.3	---	---	31	8.7	---	29.5	36.6
High Plains Crop Development												
Claremore	501	2707	2082	103	3.3	---	---	27	8.7	---	30.9	31.0
Kansas State University												
KS4410	1205	---	---	247	2.0	---	---	32	9.2	---	29.8	34.4
KS4506	1535	---	---	314	1.7	---	---	29	7.7	---	30.3	35.2
KS4549	1181	---	---	242	1.5	---	---	29	8.4	---	30.3	35.1
KSR07363	632	2788	1710	129	1.5	---	---	24	6.8	---	30.0	35.3
KSUR21	833	2799	1816	170	2.2	---	---	28	8.2	---	30.2	35.5
Riley	956	2974	2746	196	1.8	---	---	28	9.8	---	30.5	35.3
Sumner	358	2451	2290	73	3.5	---	---	25	6.5	---	29.0	33.4
Wichita	1032	2753	2418	211	2.5	---	---	29	7.7	---	30.9	33.8
Limagrain												
Alabaster	272	---	---	56	3.7	---	---	31	7.1	---	29.3	34.7
Albatros	179	---	---	37	4.2	---	---	32	6.9	---	---	---
Artoga	0	---	---	0	5.0	---	---	---	---	---	---	---

Table 16. Results for the 2014 National Winter Canola Variety Trial at Belleville, KS

Name	Yield (lb/a) ¹			Yield (% of test avg.)				Plant height (in.)	Moisture (%)	Test		
	2014	2013	3-yr. ³	2014	2014	2013	3-yr. ³			weight (lb/bu)	Protein (%)	Oil (%)
MOMONT, France												
CHH2311	0	---	---	0	5.0	---	---	---	---	---	---	---
Chrome	57	3543	2754	12	4.8	---	---	37	11.2	---	29.0	33.4
Hekip	0	3183	1592	0	4.8	---	---	30	---	---	---	---
MH10G11	0	---	---	0	5.0	---	---	---	---	---	---	---
MH10L23	0	---	---	0	4.7	---	---	29	---	---	---	---
Monsanto / DEKALB												
DK Exstorm	374	---	---	76	3.8	---	---	31	8.5	---	28.8	34.7
DK Imiron CL	1057	---	---	216	2.3	---	---	29	7.0	---	31.4	33.8
DK Sensei	918	---	---	188	2.0	---	---	32	6.6	---	30.5	34.1
DKW41-10	407	2219	1986	83	2.2	---	---	24	11.7	---	32.4	32.6
DKW44-10	260	2869	2475	53	2.8	---	---	28	11.6	---	---	---
DKW45-25	593	---	---	121	2.3	---	---	27	8.7	---	30.3	34.9
DKW46-15	490	2346	2162	100	2.3	---	---	24	15.8	---	29.8	36.3
DKW47-15	333	2463	2240	68	3.8	---	---	27	11.4	---	30.1	34.2
Rubisco Seeds LLC												
Dimension	0	3090	1545	0	4.5	---	---	37	---	---	---	---
Edimax CL	152	2892	2311	31	4.5	---	---	34	8.1	---	29.2	35.0
Hornet	610	2811	2408	125	3.0	---	---	28	8.2	---	29.6	32.9
Inspiration	495	3020	1758	101	3.7	---	---	29	11.2	---	29.6	33.7
Mercedes	1129	3404	3126	231	2.7	---	---	29	8.8	---	29.2	36.5
Safran	880	3078	2784	180	3.0	---	---	31	7.7	---	29.9	32.6
Sitro	0	2985	2292	0	4.3	---	---	27	---	---	---	---
Visby	449	3136	2586	92	3.8	---	---	31	10.1	---	29.0	33.4
Star Specialty Seed, Inc.												
Star 915W	245	---	---	50	3.3	---	---	29	8.8	---	30.3	35.3
Syngenta												
NK Petrol	465	3264	1865	95	3.5	---	---	29	9.0	---	30.6	33.7
NK Technic	892	3345	2119	183	2.5	---	---	29	6.7	---	30.1	34.7
SY Marten	170	---	---	35	4.5	---	---	25	11.6	---	---	---
SY Saveo	235	---	---	48	4.2	---	---	33	7.5	---	28.5	34.1
Virginia State University												
Virginia	642	2869	2487	131	3.0	---	---	28	8.5	---	30.9	33.3
VSX-3	564	2625	2472	115	2.7	---	---	27	11.1	---	30.6	32.4
VSX-4	431	---	---	88	3.5	---	---	27	15.1	---	30.8	32.1
Mean	489	2958	---	---	3.3	---	---	29	8.8	---	29.9	34.5
CV	58	8	---	---	13.1	---	---	---	---	---	1.3	2.6
LSD (0.05)	457	384	---	---	0.7	---	---	---	---	---	0.9	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.

¹Use yield data with caution. A CV above 20 indicates higher experimental error. Make variety selection decisions based on more than one year's data. Yields adjusted to 9% moisture.

²Winter survival rated on a scale of 1=100-80% survival and 5=20-0% survival.

³3-year average includes 2012, 2013, and 2014.

Garden City, Kansas

Johnathon Holman and Scott Maxwell
Kansas State University

Planted: 8/30/2013 at 5 lb/a in 8-in. rows
 Harvested: 7/3/2014
 Herbicides: 3 pt/a Prowl
 Insecticides: None
 Irrigation: 15.9 in.
 Previous crop: Corn
 Soil test: 92-19-688 ppm N-P-K
 Fertilizer: 6-26-0-9 lb N-P-K-S fertilizer in fall
 100-0-0 lb N-P-K fertilizer in spring
 Soil type: Ulysess-Richfield silt loam
 Elevation: 2866 ft Latitude: 37° 58'N
 Comments: Excessive rainfall at harvest caused delays and resulted in seed shatter. Yields have been adjusted for shatter losses.

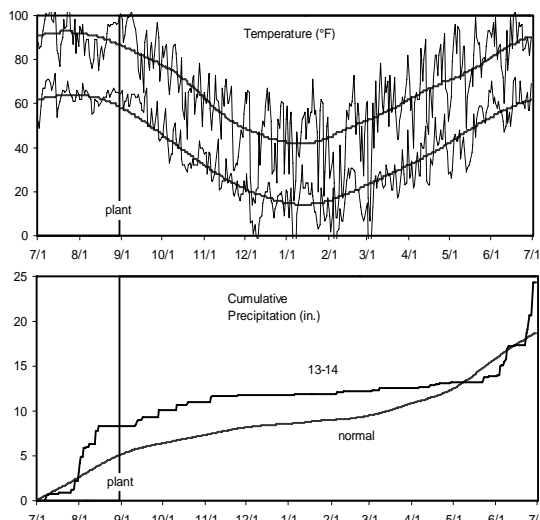


Table 17. Results for the 2014 National Winter Canola Variety Trial at Garden City, KS

Name	Yield (lb/a) ¹			Yield (% of test avg.)			Plant		Test		
	2014	2012	2-yr.	2014	2014 (1-5) ²	2013 (%)	height (in.)	Shatter (%)	weight (lb/bu)	Protein (%)	Oil (%)
CROPLAN by WinField											
HYCLASS 115W	558	1541	1050	50	4.0	85.0	35	20.0	48.5	29.1	35.8
HYCLASS 125W	386	1453	920	35	3.3	73.0	35	23.3	31.5	28.4	35.4
DL Seeds Inc.											
Argos	1255	---	---	113	1.5	---	35	30.0	50.5	26.4	37.4
Garou	1573	---	---	141	1.0	---	38	18.3	50.1	26.8	36.8
NPZ4005	1030	---	---	93	1.3	---	36	26.7	49.5	25.6	37.3
Popular	867	---	---	78	3.8	---	35	26.7	49.4	27.5	37.5
Raffiness	1284	---	---	115	2.3	---	36	33.3	50.6	24.4	38.9
DuPont Pioneer											
46W94	837	2104	1471	75	4.0	21.7	36	35.0	46.6	27.8	36.6
46W99	639	2248	1444	57	4.5	40.0	31	31.7	47.2	28.6	36.6
Exp 1301	890	---	---	80	1.5	73.3	38	26.7	49.3	25.5	38.6
Exp 1302	1149	---	---	103	2.5	---	36	43.3	50.4	28.3	37.4
Pioneer Exp1	1135	---	---	102	1.8	46.7	36	11.7	49.8	26.3	39.9
Pioneer Exp6	1295	---	---	116	1.5	---	36	21.7	50.7	26.8	39.1
PX112	1601	---	---	144	1.5	96.0	34	58.3	51.0	26.9	36.4
PX117	790	---	---	71	4.5	88.3	33	18.3	48.6	27.2	39.5
High Plains Crop Development											
Claremore	782	1613	1197	70	3.3	71.7	35	11.7	49.4	29.4	35.6
Kansas State University											
KS4410	892	---	---	80	3.5	---	34	25.0	49.4	28.3	35.8
KS4506	821	---	---	74	1.3	---	38	26.7	49.5	28.5	36.0
KS4549	762	---	---	68	2.8	---	37	33.3	49.2	28.1	35.4
KSR07363	773	---	---	69	2.0	93.3	32	40.0	48.0	28.2	36.5
KSUR21	1027	---	---	92	1.8	95.3	41	18.3	49.7	28.5	36.6
Riley	1136	2319	1728	102	4.0	98.0	32	33.3	49.4	27.9	36.5
Sumner	297	1664	981	27	4.8	92.7	20	23.3	32.6	30.0	35.7
Wichita	1267	2349	1808	114	3.8	90.0	32	35.0	48.9	28.9	35.0
Limagrain											
Alabaster	1515	---	---	136	3.5	---	35	6.7	49.5	26.1	38.5
Albatros	708	---	---	64	4.0	---	35	3.3	45.9	27.7	37.3
Artoga	1673	---	---	150	3.0	---	34	11.7	50.0	26.7	37.3
MOMONT, France											
CHH2311	1243	---	---	112	3.3	---	36	16.7	48.0	27.4	37.7
Chrome	1330	2767	2049	120	2.5	65.0	36	16.7	49.7	25.8	37.5
Hekip	1822	---	---	164	3.3	22.0	35	8.3	49.9	26.6	36.8
MH10G11	1467	---	---	132	2.8	---	37	18.3	49.4	27.1	37.7
MH10L23	1179	---	---	106	2.5	---	38	16.7	48.3	26.5	38.4

Table 17. Results for the 2014 National Winter Canola Variety Trial at Garden City, KS

Name	Yield (lb/a) ¹			Yield (% of test avg.)			Plant height (in.)	Shatter (%)	Test		
	2014	2012	2-yr.	2014	2014 (1-5) ²	2013 (%)			weight (lb/bu)	Protein (%)	Oil (%)
Monsanto / DEKALB											
DKW41-10	592	1282	937	53	3.5	80.0	30	41.7	48.4	29.3	34.5
DKW44-10	508	1339	924	46	2.8	90.0	34	30.0	48.9	28.7	36.3
DKW45-25	807	---	---	73	2.5	---	34	50.0	48.2	27.5	35.8
DKW46-15	788	1165	977	71	2.3	96.0	34	53.3	48.6	28.4	36.4
DKW47-15	772	1779	1275	69	2.5	78.3	37	18.3	48.1	28.8	35.8
Rubisco Seeds LLC											
Dimension	910	---	---	82	3.0	33.3	36	18.3	49.3	27.7	37.8
Edimax CL	1237	3044	2140	111	3.5	---	34	10.0	48.8	26.2	37.5
Hornet	1869	3115	2492	168	1.3	76.7	35	8.3	49.4	26.9	35.8
Inspiration	1906	---	---	171	1.5	58.3	34	8.3	50.3	25.7	37.3
Mercedes	1070	2431	1750	96	1.0	77.0	38	43.3	49.7	26.0	37.1
Safran	1746	3376	2561	157	2.5	83.3	37	8.3	50.6	27.1	36.7
Sitro	1528	3091	2309	137	1.5	61.7	36	10.0	49.4	25.9	36.8
Visby	1103	2658	1880	99	2.8	68.3	35	21.7	48.8	26.3	37.3
Syngenta											
NK Petrol	1512	---	---	136	1.3	43.3	40	18.3	50.6	27.9	34.8
NK Technic	1702	---	---	153	1.5	73.3	40	50.0	51.0	26.7	34.6
Virginia State University											
Virginia	1175	2277	1726	106	1.5	65.0	36	25.0	49.6	27.8	33.8
VSX-3	1337	2117	1727	120	2.0	43.3	35	18.3	49.4	28.5	34.7
VSX-4	1101	---	---	99	2.3	---	33	21.7	48.6	27.4	36.7
Mean	1113	2320	---	---	2.6	64.6	35	24.5	48.6	27.4	36.7
CV	33	11	---	---	33.2	14.4	10	48.5	11.4	2.6	3.0
LSD (0.05)	603	408	---	---	1.4	15.0	6	19.2	NS	1.5	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.

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

²Winter survival rated on a scale of 1=100-80% survival and 5=20-0% survival.

Hutchinson, Kansas

Gary Cramer
Kansas State University

Planted: 9/26/2013 at 5 lb/a in 9-in. rows
 Swathed: 6/18/2014
 Harvested: 7/9/2014
 Herbicides: 8 oz/a Assure II, two applications
 Insecticides: 3.8 oz/a Warrior
 Irrigation: None
 Previous crop: Soybean
 Soil test: NA
 Fertilizer: 70-15-0-20 lb N-P-K-S fertilizer in fall
 50-0-0 lb N-P-K fertilizer in spring
 Soil type: Funmar-Taver loam
 Elevation: 1630 ft Latitude: 37° 56'N
 Comments: Colder than normal temperatures resulted in excessive winterkill.

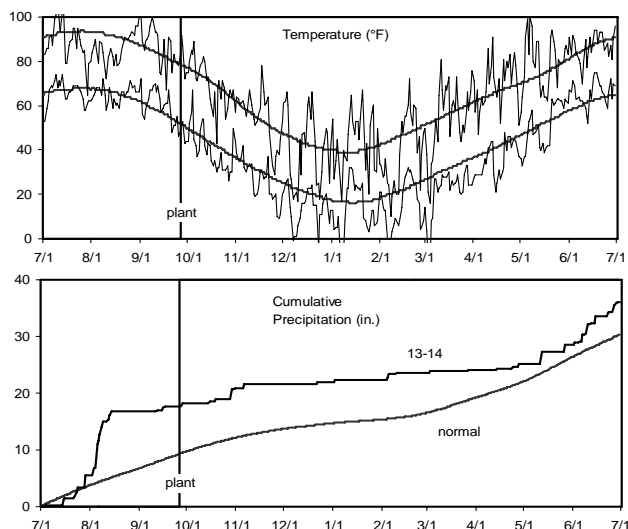


Table 18. Results for the 2014 National Winter Canola Variety Trial at Hutchinson, KS

Name	Yield (lb/a) ¹			Yield (% of test avg.)			Plant		Test			
	2014	2013	2-yr.	2014	2014	2013	2-yr.	height (in.)	Moisture (%)	weight (lb/bu)	Protein (%)	Oil (%)
CROPLAN by WinField												
HYCLASS 115W	0	1889	---	0	4.7	---	---	---	---	---	---	---
HYCLASS 125W	135	1723	929	34	4.7	---	---	---	12.0	---	27.4	36.4
HYCLASS 225W	332	---	---	83	3.7	---	---	---	7.3	---	26.5	37.4
DL Seeds Inc.												
Argos	683	---	---	170	4.0	---	---	---	7.9	---	26.9	37.1
Garou	1039	---	---	259	3.8	---	---	---	7.4	---	25.8	37.9
NPZ4005	913	---	---	227	4.2	---	---	---	8.3	---	24.7	38.8
Popular	460	---	---	114	4.2	---	---	---	2.9	---	24.3	41.7
Raffiness	0	---	---	0	4.8	---	---	---	---	---	---	---
DuPont Pioneer												
46W94	0	2201	---	0	5.0	---	---	---	---	---	---	---
46W99	0	2114	---	0	5.0	---	---	---	---	---	---	---
Exp 1301	0	2765	---	0	5.0	---	---	---	---	---	---	---
Exp 1302	0	---	---	0	5.0	---	---	---	---	---	---	---
Pioneer Exp1	0	2395	---	0	5.0	---	---	---	---	---	---	---
Pioneer Exp6	0	---	---	0	4.7	---	---	---	---	---	---	---
PX112	1218	3260	2239	303	2.7	---	---	---	6.5	---	24.5	40.1
PX117	0	2556	---	0	4.8	---	---	---	---	---	---	---
High Plains Crop Development												
Claremore	904	1850	1377	225	3.5	---	---	---	4.7	---	27.3	36.8
Kansas State University												
KS4410	924	---	---	230	3.0	---	---	---	7.3	---	26.8	37.6
KS4506	1032	---	---	257	3.0	---	---	---	7.0	---	27.5	37.8
KS4549	1272	---	---	316	2.0	---	---	---	7.1	---	26.6	37.9
KSR07363	1194	1885	1539	297	3.5	---	---	---	5.6	---	25.6	39.4
KSUR21	1061	1852	1457	264	2.0	---	---	---	7.6	---	27.4	37.8
Riley	1203	2035	1619	299	2.8	---	---	---	5.2	---	26.5	39.0
Sumner	197	1677	937	49	4.3	---	---	---	---	---	27.4	35.2
Wichita	0	1784	---	0	4.5	---	---	---	---	---	---	---
Limagrain												
Alabaster	453	---	---	113	4.0	---	---	---	4.7	---	---	---
Albatros	0	---	---	0	5.0	---	---	---	---	---	---	---
Artoga	0	---	---	0	5.0	---	---	---	---	---	---	---

Table 18. Results for the 2014 National Winter Canola Variety Trial at Hutchinson, KS

Name	Yield (lb/a) ¹			Yield (% of test avg.)			Winter survival (1-5) ²		Plant height (in.)	Moisture (%)	Test	
	2014	2013	2-yr.	2014	2014	2013	2-yr.	weight (lb/bu)			Protein (%)	Oil (%)
MOMONT, France												
CHH2311	0	---	---	0	5.0	---	---	---	---	---	---	---
Chrome	153	2807	1480	38	4.8	---	---	---	7.8	---	---	---
Hekip	171	2653	1412	43	4.8	---	---	---	11.0	---	26.2	35.0
MH10G11	0	---	---	0	5.0	---	---	---	---	---	---	---
MH10L23	0	---	---	0	5.0	---	---	---	---	---	27.1	34.7
Monsanto / DEKALB												
DK Exstorm	391	---	---	97	4.3	---	---	---	7.4	---	23.9	39.5
DK Imiron CL	789	---	---	196	2.7	---	---	---	7.4	---	28.8	36.1
DK Sensei	1243	---	---	309	3.7	---	---	---	6.1	---	28.2	35.0
DKW41-10	0	1462	---	0	4.3	---	---	---	---	---	---	---
DKW44-10	925	1877	1401	230	2.3	---	---	---	4.2	---	26.4	36.8
DKW45-25	1117	---	---	278	2.7	---	---	---	4.6	---	26.1	37.1
DKW46-15	701	1653	1177	174	2.8	---	---	---	10.1	---	26.6	39.4
DKW47-15	804	1756	1280	200	4.3	---	---	---	5.6	---	---	---
Rubisco Seeds LLC												
Dimension	0	2138	---	0	4.8	---	---	---	---	---	---	---
Edimax CL	0	1882	---	0	4.7	---	---	---	---	---	---	---
Hornet	0	2125	---	0	4.8	---	---	---	---	---	---	---
Inspiration	0	2085	---	0	5.0	---	---	---	---	---	---	---
Mercedes	580	---	---	144	4.5	---	---	---	5.6	---	26.1	38.3
Safran	0	2179	---	0	4.8	---	---	---	---	---	---	---
Sitro	249	1749	999	62	4.7	---	---	---	7.2	---	25.7	36.6
Visby	797	2079	1438	198	4.3	---	---	---	4.9	---	24.7	39.0
Star Specialty Seed, Inc.												
Star 915W	305	---	---	76	4.2	---	---	---	8.0	---	28.0	34.6
Syngenta												
NK Petrol	0	2523	---	0	5.0	---	---	---	---	---	---	---
NK Technic	261	2729	1495	65	4.2	---	---	---	7.3	---	27.6	36.5
SY Marten	223	---	---	56	4.5	---	---	---	8.1	---	25.4	34.7
SY Saveo	0	---	---	0	5.0	---	---	---	---	---	---	---
Virginia State University												
Virginia	386	2593	1490	96	4.2	---	---	---	9.6	---	27.7	35.8
VSX-3	786	2183	1485	196	3.3	---	---	---	6.6	---	27.2	36.0
VSX-4	0	---	---	0	4.7	---	---	---	---	---	---	---
Mean	402	2118	---	---	4.2	---	---	---	6.9	---	26.4	37.7
CV	118	14	---	---	13.5	---	---	---	---	---	4.1	4.0
LSD (0.05)	766	482	---	---	0.9	---	---	---	---	---	NS	NS

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.

¹Use yield data with caution. A CV above 20 indicates higher experimental error. Make variety selection decisions based on more than one year's data. Yields adjusted to 9% moisture.

²Winter survival rated on a scale of 1=100-80% survival and 5=20-0% survival.

Clovis, New Mexico

Sangu Angadi and Sultan Begna
New Mexico State University

Planted: 9/4/2013 at 6 lb/a in 6-in. rows
Desiccant: Reglone
Herbicides: 2 pt/a Treflan HFP
Insecticides: Prevathon, Beleaf, Trimax
Irrigation: 14 in.
Previous crop: Fallow
Soil test: 27-15-344 ppm N-P-K, pH=8.0
Fertilizer: 75-25-12 lb N-P-K fertilizer in fall
Soil type: Olton clay loam
Elevation: 4437 ft Latitude: 34° 36'N
Comments: A severe hail storm on June 7 reduced yields by about half.

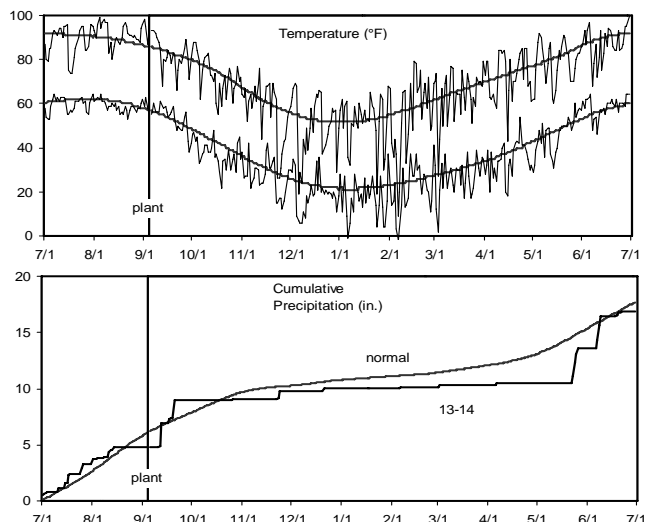


Table 19. Results for the 2014 National Winter Canola Variety Trial at Clovis, NM

Name	Yield (lb/a)			Yield (% of test avg.)			Winter survival (%)	Plant height (in.)	50% bloom (DOY)	Test		
	2014	2013	3-yr. ¹	2014	2014	2013				3-yr. ¹	weight (lb/bu)	Protein (%)
CROPLAN by WinField												
HYCLASS 115W	1210	2519	2130	95	98.0	98.0	97.3	28	93	48.0	26.7	35.7
HYCLASS 125W	1085	2323	1992	85	98.0	98.0	97.7	27	93	47.0	26.2	36.6
DL Seeds Inc.												
Argos	1668	---	---	131	98.0	---	---	28	95	48.6	25.9	37.5
Garou	1491	---	---	117	98.0	---	---	29	93	44.6	25.7	36.1
NPZ4005	1507	---	---	119	98.0	---	---	31	95	47.2	25.3	38.2
Popular	1191	---	---	94	97.7	---	---	26	94	47.3	24.8	37.6
Raffiness	1379	---	---	109	98.0	---	---	30	96	47.1	24.9	37.2
DuPont Pioneer												
46W94	904	3296	2157	71	95.3	98.0	97.1	27	96	48.2	25.3	35.8
46W99	958	2675	1876	75	98.0	98.0	98.0	29	96	47.9	25.1	35.8
Exp 1301	1296	3219	2257	102	98.0	98.0	98.0	30	96	46.0	25.4	38.9
Exp 1302	1325	---	---	104	97.7	---	---	31	96	46.8	26.4	38.1
Pioneer Exp1	1590	3244	2417	125	98.0	98.0	98.0	28	99	46.0	25.6	38.5
Pioneer Exp6	1618	---	---	127	98.0	---	---	31	94	46.2	26.3	40.2
PX112	1563	3024	2293	123	98.0	98.0	98.0	28	94	48.7	25.7	38.4
PX117	2061	2525	2293	162	98.0	98.0	98.0	30	93	46.4	25.5	40.2
High Plains Crop Development												
Claremore	1302	2404	2031	102	97.7	95.0	96.9	27	101	48.3	27.5	35.7
Kansas State University												
KS4410	1008	---	---	79	98.0	---	---	28	93	47.3	26.0	35.0
KS4506	1139	---	---	90	98.0	---	---	30	93	47.6	26.5	33.5
KS4549	963	---	---	76	98.0	---	---	29	94	48.4	25.7	35.1
KSR07363	1128	2177	1653	89	98.0	98.0	98.0	28	93	47.9	26.3	35.2
Riley	1371	2814	2197	108	98.0	98.0	97.0	30	93	47.3	25.8	36.1
Sumner	1009	2448	1878	79	98.0	98.0	97.7	27	93	48.7	27.0	34.5
Wichita	1449	2763	2076	114	98.0	98.0	97.7	26	95	47.3	27.2	35.5
Limagrain												
Alabaster	1422	---	---	112	97.0	---	---	28	95	46.4	25.2	35.9
Albatros	1284	---	---	101	98.0	---	---	31	95	46.2	25.9	37.7
Artoga	1217	---	---	96	98.0	---	---	29	94	47.3	25.1	35.6
MOMONT, France												
CHH2311	1235	---	---	97	97.3	---	---	29	103	43.5	25.1	36.2
Chrome	1394	2781	2359	110	97.3	98.0	97.8	31	106	43.0	26.9	35.5
Hekip	1537	2433	1985	121	98.0	98.0	98.0	28	103	46.2	26.0	35.6
MH10G11	841	---	---	66	83.3	---	---	26	108	46.7	26.7	35.6
MH10L23	1347	---	---	106	97.0	---	---	27	96	45.5	25.2	35.2

Table 19. Results for the 2014 National Winter Canola Variety Trial at Clovis, NM

Name	Yield (lb/a)			Yield (% of	Winter survival (%)			Plant height (in.)	50% bloom (DOY)	Test weight (lb/bu)	Protein (%)	Oil (%)
	2014	2013	3-yr. ¹	test avg.)	2014	2013	3-yr. ¹					
Monsanto / DEKALB												
DKW41-10	919	1680	1388	72	98.0	98.0	98.0	25	95	48.0	25.8	34.6
DKW44-10	807	2744	1967	63	98.0	98.0	97.7	24	98	49.2	28.5	33.7
DKW45-25	1021	---	---	80	98.0	---	---	26	93	49.3	25.1	35.9
DKW46-15	1177	2457	1985	93	98.0	98.0	97.0	25	93	47.1	26.3	35.9
DKW47-15	962	2270	2000	76	98.0	98.0	97.0	25	95	47.3	26.3	34.9
Rubisco Seeds LLC												
Dimension	986	2759	1873	78	98.0	98.0	98.0	24	99	45.8	25.3	37.7
Edimax CL	1460	2682	2589	115	98.0	95.0	97.0	30	96	45.2	25.0	35.4
Hornet	1311	2307	2277	103	98.0	98.0	97.7	29	94	46.7	25.2	36.9
Inspiration	1252	2620	1936	99	97.7	98.0	97.8	29	95	45.8	24.9	34.8
Mercedes	1543	3494	2360	121	98.0	98.0	98.0	30	95	48.1	25.2	38.0
Safran	1717	3060	2903	135	98.0	95.0	96.0	29	95	45.1	26.5	35.4
Sitro	1576	2795	2603	124	98.0	98.0	97.3	28	94	43.7	26.0	35.5
Visby	1339	2551	2289	105	98.0	98.0	97.7	29	93	46.2	26.4	35.5
Virginia State University												
Virginia	1049	2610	2137	83	96.7	98.0	97.2	28	104	47.5	25.7	34.2
VSX-3	1194	2091	2185	94	96.3	98.0	96.4	26	98	45.6	27.2	33.3
VSX-4	926	---	---	73	94.0	---	---	29	99	46.2	26.3	34.9
Mean	1271	2707	---	---	97.4	97.8	---	28	96	46.8	25.9	36.2
CV	14	12	---	---	1.4	0.0	---	7	2	3.4	2.7	3.3
LSD (0.05)	284	527	---	---	2.2	0.4	---	3	4	2.6	1.4	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.

¹3-year average includes 2012, 2013, and 2014.

Goodwell, Oklahoma

Rick Kochenower
Oklahoma State University

Planted: 9/18/2013 at 5 lb/a in 9-in. rows
 Swathed: 6/15/2014
 Harvested: 6/23/2014
 Herbicides: NA
 Insecticides: NA
 Irrigation: 7.5 in.
 Previous crop: NA
 Fertilizer: 200-40-0 lb N-P-K fertilizer in fall
 Soil type: Richfield clay loam
 Elevation: 3239 ft Latitude: 36° 36'N
 Comments: This location provided good yields despite a dry year. Late spring freezes affected the crop April 13-15 and May 1. Hybrids outperformed the open pollinated entries.

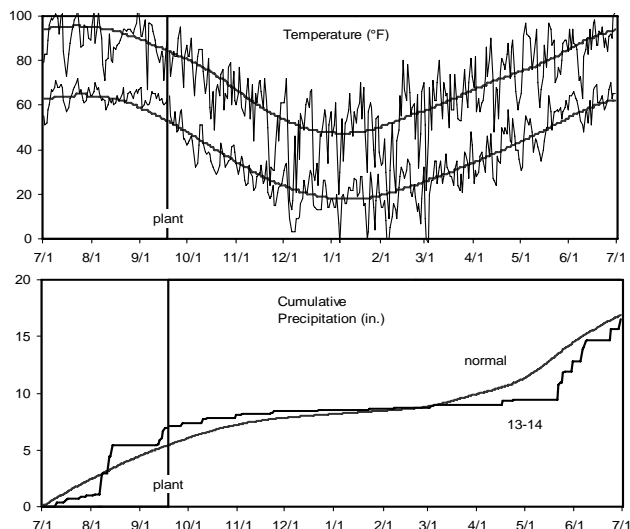


Table 20. Results for the 2014 National Winter Canola Variety Trial at Goodwell, OK

Name	Yield (lb/a) ¹			Yield (% of test avg.)			Plant		Test			
	2014	2012	2-yr.	2014	2014	2012	2-yr.	height (in.)	Moisture (%)	weight (lb/bu)	Protein (%)	Oil (%)
CROPLAN by WinField												
HYCLASS 115W	1221	2088	1655	70	10	---	---	---	4.6	48.4	27.5	37.5
HYCLASS 125W	1516	2066	1791	86	10	---	---	---	4.6	45.5	27.2	37.0
HYCLASS 225W	1687	---	---	96	10	---	---	---	4.0	48.7	27.7	38.6
DL Seeds Inc.												
Argos	1957	---	---	112	9.3	---	---	---	5.2	47.8	27.1	37.5
Garou	1945	---	---	111	10	---	---	---	4.1	46.9	26.7	37.8
NPZ4005	2216	---	---	126	10	---	---	---	4.1	49.5	26.3	39.2
Popular	1626	---	---	93	10	---	---	---	4.0	49.8	26.6	39.0
Raffiness	1941	---	---	111	10	---	---	---	4.3	47.8	26.6	39.9
DuPont Pioneer												
46W94	1423	2656	2039	81	10	---	---	---	3.9	48.2	26.7	37.0
46W99	1363	1985	1674	78	10	---	---	---	4.3	46.5	27.3	37.2
Exp 1301	2143	---	---	122	10	---	---	---	3.9	48.3	25.0	41.7
Exp 1302	2142	---	---	122	10	---	---	---	6.0	49.4	27.2	38.8
Pioneer Exp1	1818	---	---	104	10	---	---	---	4.2	49.2	26.5	38.7
Pioneer Exp6	1809	---	---	103	10	---	---	---	3.9	48.9	27.1	40.9
PX112	2182	---	---	124	10	---	---	---	4.0	49.6	27.5	39.2
PX117	1552	---	---	88	10	---	---	---	4.1	48.9	26.7	39.6
High Plains Crop Development												
Claremore	1803	1995	1899	103	10	---	---	---	6.3	49.4	27.4	36.5
Kansas State University												
KS4410	1378	---	---	79	10	---	---	---	4.1	47.8	27.0	37.8
KS4506	1571	---	---	90	10	---	---	---	4.1	47.8	27.2	38.3
KS4549	1195	---	---	68	10	---	---	---	3.9	45.3	26.9	38.3
KSR07363	1541	---	---	88	10	---	---	---	4.6	47.0	27.5	37.1
KSUR21	1631	---	---	93	10	---	---	---	4.6	49.3	27.5	37.1
Riley	1308	2224	1766	75	10	---	---	---	3.5	47.0	26.9	38.4
Sumner	1226	2219	1722	70	9.5	---	---	---	4.3	48.9	27.5	38.4
Wichita	1047	2255	1651	60	10	---	---	---	4.2	47.7	27.5	36.9
Limagrain												
Alabaster	1944	---	---	111	10	---	---	---	4.8	47.1	27.3	37.6
Albatros	2063	---	---	118	9.7	---	---	---	4.6	48.0	26.9	38.7
Artoga	1854	---	---	106	10	---	---	---	4.4	45.1	26.6	38.3

Table 20. Results for the 2014 National Winter Canola Variety Trial at Goodwell, OK

Name	Yield (lb/a) ¹			Yield (% of test avg.)				Plant height (in.)	Moisture (%)	Test		
	2014	2012	2-yr.	2014	2014	2012	2-yr.			weight (lb/bu)	Protein (%)	Oil (%)
MOMONT, France												
CHH2311	1671	---	---	95	9.3	---	---	---	4.2	48.4	27.5	38.9
Chrome	2052	2474	2263	117	9.7	---	---	---	4.3	48.1	26.7	40.0
Hekip	1668	---	---	95	9.3	---	---	---	4.2	48.1	27.3	36.3
MH10G11	1263	---	---	72	7.0	---	---	---	4.1	45.3	27.3	38.0
MH10L23	1452	---	---	83	9.3	---	---	---	4.1	46.2	26.1	38.0
Monsanto / DEKALB												
DK Exstorm	2168	---	---	124	10	---	---	---	4.4	47.7	26.3	38.3
DK Imiron CL	2336	---	---	133	10	---	---	---	4.4	50.0	27.3	37.7
DK Sensei	2338	---	---	133	10	---	---	---	4.1	49.4	27.3	38.1
DKW41-10	1331	2197	1764	76	10	---	---	---	3.7	44.6	28.4	36.3
DKW44-10	986	2451	1718	56	10	---	---	---	4.6	45.6	27.4	37.9
DKW45-25	1355	---	---	77	10	---	---	---	4.0	48.2	27.5	37.9
DKW46-15	729	1985	1357	42	10	---	---	---	5.1	47.8	27.8	36.3
DKW47-15	1260	1886	1573	72	10	---	---	---	3.8	45.2	26.9	38.6
Rubisco Seeds LLC												
Dimension	2057	---	---	117	10	---	---	---	4.8	49.3	26.6	37.7
Edimax CL	1647	2139	1893	94	10	---	---	---	4.6	47.1	27.3	37.1
Hornet	2017	1843	1930	115	10	---	---	---	4.3	47.3	26.7	37.1
Inspiration	2263	---	---	129	10	---	---	---	4.4	48.5	27.3	38.8
Mercedes	2252	2123	2188	128	10	---	---	---	4.2	49.4	25.4	39.9
Safran	1946	2394	2170	111	10	---	---	---	4.0	46.7	27.8	37.7
Sitro	1909	2072	1991	109	10	---	---	---	4.3	47.3	27.4	38.3
Visby	2140	1800	1970	122	10	---	---	---	3.9	48.9	27.3	36.5
Star Specialty Seed, Inc.												
Star 915W	1445	---	---	82	10	---	---	---	4.0	46.8	27.6	37.3
Syngenta												
NK Petrol	2349	---	---	134	10	---	---	---	5.2	48.6	27.5	36.6
NK Technic	2490	---	---	142	10	---	---	---	4.7	49.4	27.0	37.8
SY Marten	1988	---	---	113	10	---	---	---	4.3	48.1	27.0	37.4
SY Saveo	2396	---	---	137	9.7	---	---	---	4.4	50.1	25.8	39.9
Virginia State University												
Virginia	1921	2274	2097	109	10	---	---	---	4.6	47.4	27.4	36.0
VSX-3	1638	2470	2054	93	10	---	---	---	4.2	46.4	28.3	36.8
VSX-4	1417	---	---	81	10	---	---	---	3.9	45.1	27.0	37.1
Mean	1755	2113	---	---	9.9	---	---	---	4.4	47.9	27.1	38.0
CV	24	11	---	---	3.3	---	---	---	17.7	2.8	2.7	3.4
LSD (0.05)	704	364	---	---	0.5	---	---	---	NS	2.5	NS	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.

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

Chillicothe, Texas

Paul DeLaune
Texas AgriLife Research Service

Planted: 9/23/2013 at 5 lb/a in 10-in. rows
 Herbicides: 4 oz/a Select 2EC
 Insecticides: None
 Irrigation: None
 Previous crop: Wheat
 Soil test: 35-357 ppm P-K, and pH=7.0
 Fertilizer: 27-69-0-15-1.5 lb N-P-K-S-Zn fertilizer in fall
 Soil type: Abilene clay loam
 Elevation: 1436 ft Latitude: 34° 11'N
 Comments: The plot was abandoned as a result of severe winterkill.

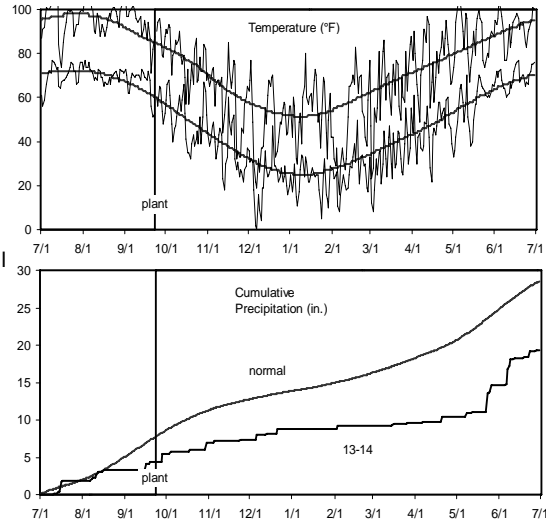


Table 21. Results for the 2014 National Winter Canola Variety Trial at Chillicothe, TX

Name	Yield (lb/a)			Yield (% of test avg.)			Fall stand		50% Test			
	2014	2013	3-yr.	2014	2014	2013	3-yr.	(0-10)	(DOY)	(lb/bu)	Protein (%)	Oil (%)
CROPLAN by WinField												
HYCLASS 115W	---	---	---	---	83.3	---	---	7.3	99	---	---	---
HYCLASS 125W	---	---	---	---	86.7	---	---	8.3	100	---	---	---
DuPont Pioneer												
46W94	---	---	---	---	50.0	---	---	6.0	112	---	---	---
46W99	---	---	---	---	68.3	---	---	6.3	110	---	---	---
Kansas State University												
Wichita	---	---	---	---	90.0	---	---	6.3	107	---	---	---
Limagrain												
Alabaster	---	---	---	---	51.7	---	---	6.3	112	---	---	---
Albatros	---	---	---	---	48.3	---	---	4.0	112	---	---	---
Artoga	---	---	---	---	65.0	---	---	7.0	107	---	---	---
MOMONT, France												
Chrome	---	---	---	---	30.0	---	---	7.3	---	---	---	---
Monsanto / DEKALB												
DK Exstorm	---	---	---	---	66.7	---	---	7.0	112	---	---	---
DK Imiron CL	---	---	---	---	73.3	---	---	8.0	108	---	---	---
DK Sensei	---	---	---	---	73.3	---	---	9.0	109	---	---	---
DKW41-10	---	---	---	---	90.0	---	---	6.3	99	---	---	---
DKW44-10	---	---	---	---	90.0	---	---	8.3	103	---	---	---
DKW46-15	---	---	---	---	91.7	---	---	8.7	100	---	---	---
DKW47-15	---	---	---	---	83.3	---	---	8.7	107	---	---	---
Rubisco Seeds LLC												
Dimension	---	---	---	---	56.7	---	---	8.0	108	---	---	---
Edimax CL	---	---	---	---	46.7	---	---	7.0	112	---	---	---
Hornet	---	---	---	---	81.7	---	---	8.0	100	---	---	---
Inspiration	---	---	---	---	58.3	---	---	7.7	100	---	---	---
Syngenta												
NK Petrol	---	---	---	---	76.7	---	---	8.3	108	---	---	---
NK Technic	---	---	---	---	81.7	---	---	7.3	100	---	---	---
SY Marten	---	---	---	---	46.7	---	---	8.3	112	---	---	---
SY Saveo	---	---	---	---	88.3	---	---	7.3	107	---	---	---
Mean	---	---	---	---	69.9	---	---	7.4	106	---	---	---
CV	---	---	---	---	32.9	---	---	20.4	3	---	---	---
LSD (0.10)	---	---	---	---	31.5	---	---	NS	5	---	---	---

Etter, Texas

Calvin Trostle
Texas AgriLife Research and Extension Service

Planted: 9/24/2013
Harvested: 7/9/2014
Herbicides: None
Insecticides: Warrior
Irrigation: 16 in.
Previous crop: NA
Soil test: NA
Fertilizer: 60-12-0-15 lb total N-P-K-S fertilizer
Soil type: Sherm clay loam
Elevation: 3450 ft Latitude: 35° 59'N
Comments: Planted late. Delayed irrigation resulted in late emergence. Many small seedlings did not survive the winter. Plots did not look good, and yields and oil were reduced.

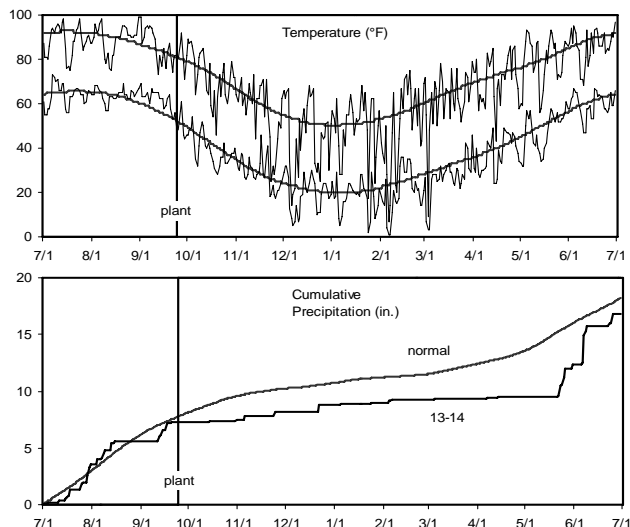


Table 22. Results for the 2014 National Winter Canola Variety Trial at Etter, TX

Name	Yield (lb/a) ¹			Yield (% of test avg.)			Winter survival (%)		Plant height (in.)	Shatter (%)	Test weight (lb/bu)	Protein (%)	Oil (%)
	2014	2012	2-yr.	2014	2014	2012	2-yr.						
CROPLAN by WinField													
HyCLASS 115W	305	1545	925	43	---	---	---	32	1.7	40.1	26.6	21.7	
HyCLASS 125W	417	1624	1020	58	---	---	---	31	6.7	46.3	25.8	21.8	
HYCLASS 225W	681	---	---	95	---	---	---	29	1.7	48.0	25.0	20.9	
DL Seeds Inc.													
Edimax CL	921	2317	1619	128	---	---	---	33	0.0	48.8	25.7	22.3	
Safran	1251	2519	1885	174	---	---	---	34	0.0	50.5	25.7	23.1	
Sitro	687	2393	1540	96	---	---	---	33	0.0	50.6	26.3	23.7	
DuPont Pioneer													
46W94	299	2045	1172	42	---	---	---	35	1.7	36.8	27.3	23.5	
Exp 1301	446	---	---	62	---	---	---	34	5.0	46.2	25.7	22.2	
Exp 1302	676	---	---	94	---	---	---	30	11.7	42.9	24.9	21.6	
Pioneer Exp1	501	---	---	70	---	---	---	30	6.7	46.9	24.8	22.0	
Pioneer Exp6	594	---	---	83	---	---	---	31	1.7	44.8	25.0	22.7	
PX112	511	---	---	71	---	---	---	33	5.0	43.9	25.5	21.0	
PX117	514	---	---	72	---	---	---	30	0.0	44.7	25.9	21.1	
Limagrain													
Alabaster	880	---	---	123	---	---	---	30	0.0	46.5	25.3	22.3	
Albatros	889	---	---	124	---	---	---	32	0.0	47.8	26.1	21.3	
Artoga	1015	---	---	142	---	---	---	30	0.0	50.1	25.5	21.6	
MOMONT, France													
Chrome	625	2781	1703	87	---	---	---	34	0.0	47.4	25.8	21.2	
Monsanto / DEKALB													
DK Exstorm	801	---	---	112	---	---	---	34	0.0	48.1	25.6	24.9	
DK Imiron CL	1373	---	---	192	---	---	---	31	1.7	44.9	25.8	21.5	
DK Sensei	1036	---	---	145	---	---	---	32	0.0	44.8	25.6	20.7	
DKW41-10	298	1198	748	42	---	---	---	30	8.3	37.8	26.3	18.2	
DKW44-10	164	1206	685	23	---	---	---	28	6.7	35.6	26.8	21.0	
DKW46-15	481	1431	956	67	---	---	---	31	6.7	45.6	26.9	24.7	
DKW47-15	925	1418	1171	129	---	---	---	31	3.3	44.7	25.3	21.1	

Table 22. Results for the 2014 National Winter Canola Variety Trial at Etter, TX

Name	Yield (lb/a) ¹			Yield (% of test avg.)			Winter survival (%)		Plant height (in.)	Shatter (%)	Test weight		Protein (%)	Oil (%)
	2014	2012	2-yr.	2014	2014	2012	2-yr.	(lb/bu)			(%)			
Syngenta														
NK Petrol	1188	---	---	166	---	---	---	31	1.7	47.9	25.8	22.1		
NK Technic	990	---	---	138	---	---	---	31	8.3	45.8	24.8	21.3		
SY Marten	911	---	---	127	---	---	---	32	0.0	48.8	24.8	21.6		
SY Saveo	682	---	---	95	---	---	---	33	5.0	46.3	25.4	24.2		
Mean	717	2003	---	---	---	---	---	32	3.0	46.0	25.7	21.8		
CV	46	30	---	---	---	---	---	8	---	11.3	2.2	5.9		
LSD (0.10)	196	669	---	---	---	---	---	3	---	4.0	1.3	2.8		

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.

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

College Station, Texas

Clark Neely and Daniel Hathcoat
Texas A&M University

Planted: 10/23/2013
Harvested: 5/26/2014
Herbicides: 2 pt/a Treflan, 6 oz/a Select 2EC
Insecticides: 0.75 pt/a Dimethoate, 1.5 oz/a Declare
2.8 oz/a Beleaf
Irrigation: 1.4 in.
Previous crop: Wheat
Soil test: 7-63-465 ppm N-P-K, pH=8.0
Fertilizer: 57-0-0-12 lb N-P-K fertilizer in fall
Soil type: Clay loam
Elevation: 267 ft Latitude: 30° 26'N
Comments: Varieties with a longer vernalization requirement tended to flower later and did not yield as well as early flowering varieties.

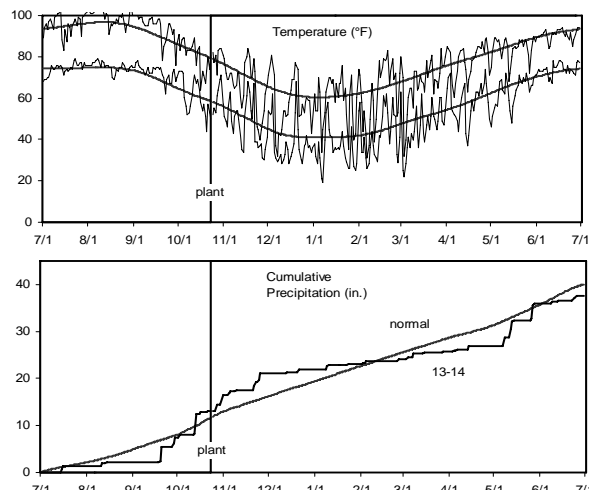


Table 23. Results for the 2014 National Winter Canola Variety Trial at College Station, TX

Name	Yield (lb/a)			Yield (% of test avg.)			Winter survival (%)		Plant height (in.)	50% bloom (DOY)	Test weight (lb/bu)	Protein (%)	Oil (%)
	2014	2013	3-yr.	2014	2013	3-yr.	2014	2013					
CROPLAN by WinField													
HYCLASS 115W	1302	---	---	111	---	---	---	---	42	95	48.2	23.6	39.7
HYCLASS 125W	1038	---	---	88	---	---	---	---	45	97	48.0	24.8	37.8
HYCLASS 225W	1311	---	---	112	---	---	---	---	44	99	50.0	23.0	38.2
DL Seeds Inc.													
Argos	1261	---	---	107	---	---	---	---	46	97	49.5	21.3	40.3
Garou	1333	---	---	114	---	---	---	---	45	98	49.2	22.1	39.3
NPZ4005	1584	---	---	135	---	---	---	---	46	94	49.0	22.6	38.7
Popular	1590	---	---	135	---	---	---	---	46	95	49.3	23.4	40.3
Raffiness	1345	---	---	115	---	---	---	---	47	99	48.3	22.8	38.9
DuPont Pioneer													
46W94	1480	---	---	126	---	---	---	---	48	99	49.0	23.8	38.0
46W99	1677	---	---	143	---	---	---	---	47	93	49.9	23.6	38.1
Exp 1301	673	---	---	57	---	---	---	---	47	101	46.9	22.6	40.1
Exp 1302	924	---	---	79	---	---	---	---	47	99	45.7	24.1	37.8
Pioneer Exp1	818	---	---	70	---	---	---	---	42	101	47.4	23.2	40.5
Pioneer Exp6	589	---	---	50	---	---	---	---	43	102	46.8	23.4	40.1
PX112	442	---	---	38	---	---	---	---	43	102	46.3	23.3	39.2
PX117	658	---	---	56	---	---	---	---	43	99	45.4	25.1	38.3
High Plains Crop Development													
Claremore	775	---	---	66	---	---	---	---	48	101	46.5	26.3	37.6
Kansas State University													
KS4410	1087	---	---	93	---	---	---	---	46	100	48.4	24.2	38.2
KS4506	1307	---	---	111	---	---	---	---	45	95	49.3	23.0	39.1
KS4549	844	---	---	72	---	---	---	---	45	102	46.8	24.6	36.9
KSR07363	1275	---	---	109	---	---	---	---	44	95	50.1	23.4	38.0
KSUR21	849	---	---	72	---	---	---	---	48	101	47.6	25.7	35.8
Riley	966	---	---	82	---	---	---	---	46	100	46.9	24.0	37.9
Sumner	1035	---	---	88	---	---	---	---	45	98	48.2	25.7	38.1
Wichita	1109	---	---	95	---	---	---	---	47	100	48.6	24.3	38.2
Limagrain													
Alabaster	1220	---	---	104	---	---	---	---	46	98	49.0	22.6	38.1
Albatros	1251	---	---	107	---	---	---	---	48	96	48.6	23.4	38.4
Artoga	1284	---	---	109	---	---	---	---	45	99	48.8	22.7	37.2
MOMONT, France													
CHH2311	949	---	---	81	---	---	---	---	49	99	46.8	24.2	38.3
Chrome	1108	---	---	94	---	---	---	---	47	94	48.8	22.1	40.9
Hekip	1582	---	---	135	---	---	---	---	48	93	47.5	23.2	38.2
MH10G11	667	---	---	57	---	---	---	---	47	101	46.8	23.1	40.2
MH10L23	902	---	---	77	---	---	---	---	43	100	45.5	24.3	37.2

Table 23. Results for the 2014 National Winter Canola Variety Trial at College Station, TX

Name	Yield (lb/a)			Yield (% of test avg.)				Winter survival (%)		Plant height (in.)	50% bloom (DOY)	Test weight (lb/bu)	Protein (%)	Oil (%)
	2014	2013	3-yr.	2014	2014	2013	3-yr.	2014	2013					
Monsanto / DEKALB														
DK Exstorm	1034	---	---	88	---	---	---	46	98	49.2	22.5	37.6		
DK Imiron CL	995	---	---	85	---	---	---	46	99	49.6	24.9	35.8		
DK Sensei	1049	---	---	89	---	---	---	48	100	49.4	24.8	37.2		
DKW41-10	1465	---	---	125	---	---	---	39	78	51.2	23.5	36.5		
DKW44-10	773	---	---	66	---	---	---	40	99	46.3	25.7	38.1		
DKW45-25	1278	---	---	109	---	---	---	46	97	50.4	23.7	37.6		
DKW46-15	1008	---	---	86	---	---	---	42	99	48.7	24.4	38.2		
DKW47-15	749	---	---	64	---	---	---	42	101	45.8	25.4	36.3		
Rubisco Seeds LLC														
Dimension	1536	---	---	131	---	---	---	47	89	48.0	23.8	37.9		
Edimax CL	1362	---	---	116	---	---	---	48	95	49.4	23.5	37.0		
Hornet	1330	---	---	113	---	---	---	48	93	48.8	22.9	38.5		
Inspiration	1418	---	---	121	---	---	---	48	95	50.3	22.8	37.9		
Mercedes	1641	---	---	140	---	---	---	46	98	50.1	22.3	38.1		
Safran	950	---	---	81	---	---	---	48	99	44.9	24.1	35.5		
Sitro	1072	---	---	91	---	---	---	45	95	48.3	22.6	38.9		
Visby	1874	---	---	160	---	---	---	46	95	49.9	22.8	37.8		
Star Specialty Seed, Inc.														
Star 915W	1233	---	---	105	---	---	---	45	93	48.6	25.3	37.7		
Syngenta														
NK Petrol	1205	---	---	103	---	---	---	48	99	48.7	23.4	38.1		
NK Technic	1043	---	---	89	---	---	---	47	97	48.7	23.5	37.2		
SY Marten	1533	---	---	131	---	---	---	44	93	49.5	23.0	38.7		
SY Saveo	1486	---	---	127	---	---	---	48	95	48.1	22.4	39.1		
Virginia State University														
Virginia	1581	---	---	135	---	---	---	44	93	48.3	24.0	38.0		
VSX-3	1554	---	---	132	---	---	---	47	95	49.0	24.1	37.5		
VSX-4	1210	---	---	103	---	---	---	45	96	48.9	23.9	37.1		
Mean	1173	---	---	---	---	---	---	46	97	48.3	23.6	38.2		
CV	20	---	---	---	---	---	---	6	2	2.9	5.1	3.7		
LSD (0.05)	381	---	---	---	---	---	---	4	3	2.3	2.5	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.

Table 24. 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
CROPLAN by WinField					Monsanto / DEKALB				
HYCLASS 115W	1942	48	39.5	47	DK Exstorm	1601	2	38.0	2
HYCLASS 125W	1951	29	38.8	27	DK Imiron CL	1666	2	36.7	2
HYCLASS 225W	1499	2	38.4	2	DK Sensei	1693	2	37.6	2
DL Seeds Inc.					Rubisco Seeds LLC				
Argos	1586	3	41.0	3	DKW41-10	1661	51	37.7	49
Garou	1770	3	40.6	3	DKW44-10	2004	29	37.1	27
NPZ4005	1856	3	41.4	3	DKW45-25	1374	3	38.8	3
Popular	1741	3	42.4	3	DKW46-15	1914	51	40.2	49
Raffiness	1718	3	42.2	3	DKW47-15	1919	51	39.0	49
DuPont Pioneer					Star Specialty Seed, Inc.				
46W94	2505	21	39.7	19	Star 915W	1339	2	37.5	2
46W99	2314	21	39.6	18	Syngenta				
Exp 1301	2434	8	41.6	8	NK Petrol	2668	8	37.9	8
Exp 1302	1653	3	40.4	3	NK Technic	2808	8	37.4	8
Pioneer Exp1	2332	8	41.9	8	SY Marten	1760	2	38.1	2
Pioneer Exp6	1486	3	42.1	3	SY Saveo	1941	2	39.5	2
PX112	2345	8	40.8	8	Virginia State University				
PX117	2304	8	41.2	8	Virginia	2128	45	39.1	43
High Plains Crop Development					Mean¹				
Claremore	2034	47	39.0	44		2175	55	39.5	53
Kansas State University									
KS4410	1345	3	39.1	3					
KS4506	1405	3	40.3	3					
KS4549	1193	3	39.6	3					
KSR07363	1974	8	38.8	8					
KSUR21	2015	7	38.2	7					
Riley	2282	53	40.3	50					
Sumner	2003	53	39.6	51					
Wichita	2142	55	39.3	53					
Limagrain									
Alabaster	1589	3	39.9	3					
Albatros	1782	3	41.4	3					
Artoga	1690	3	40.3	3					
MOMONT, France									
CHH2311	1521	3	41.1	3					
Chrome	2565	39	40.2	37					
Hekip	2436	8	39.1	8					
MH10G11	1220	3	41.3	3					
MH10L23	1420	3	40.3	3					

Data averaged over a 6-year period from 2009-2014.

¹Number of mean observations, not average value of observations per entry.

Alburgh, Vermont

Heather Darby
University of Vermont

Planted: 8/23/2013 at 6 lb/a
Harvested: 7/30/2014
Herbicides: None
Insecticides: 12 oz/a Select Max
Irrigation: None
Previous crop: Fallow
Soil test: NA
Fertilizer: 70-0-0 lb N-P-K fertilizer in fall
120-0-0 lb N-P-K fertilizer in spring
Soil type: Rocky silt loam
Elevation: 132 ft Latitude: 45° 0'N
Comments: Cold winter temperatures caused significant winterkill and reduced yields. Oil production was excellent.

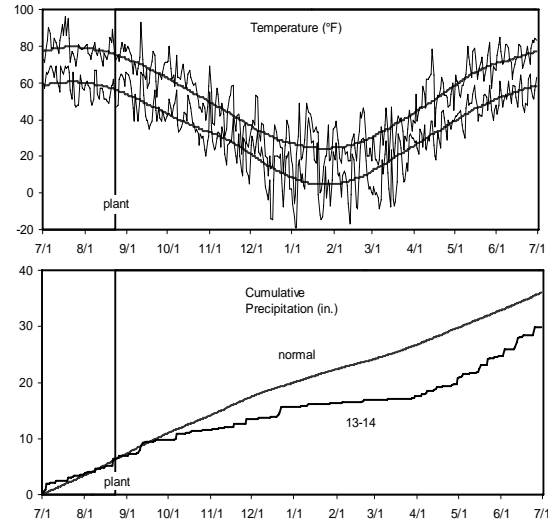


Table 25. Results for the 2014 National Winter Canola Variety Trial at Alburgh, VT

Name	Yield (lb/a) ¹			Yield (% of test avg.)			Plant		Spring			Test		
	2014	2013	3-yr.	2014	2014	2013	3-yr.	height (in.)	vigor (0-10)	weight (lb/bu)	Protein (%)	Oil (%)		
DL Seeds Inc.														
Argos	668	---	---	78	11.9	---	---	20	2.0	47.2	19.9	43.5		
DuPont Pioneer														
PX112	1208	---	---	140	35.6	---	---	16	4.5	49.6	20.3	45.5		
PX117	706	---	---	82	27.1	---	---	16	2.0	48.4	20.5	46.2		
Kansas State University														
Riley	1266	---	---	147	22.3	---	---	14	3.3	49.2	22.2	43.1		
Wichita	1764	---	---	205	30.1	---	---	17	4.3	49.8	24.4	41.0		
MOMONT, France														
Chrome	237	---	---	28	0.0	---	---	11	0.5	47.8	20.2	45.8		
NPZ														
Baldur	1142	---	---	133	18.5	---	---	18	1.8	49.8	19.4	42.3		
Kronos	1255	---	---	146	21.5	---	---	19	2.8	48.5	21.3	39.3		
Rubisco Seeds LLC														
Dimension	326	---	---	38	1.0	---	---	17	1.2	47.6	19.3	45.5		
Edimax CL	1205	---	---	140	22.3	---	---	17	1.7	48.8	20.1	42.3		
Hornet	521	---	---	61	19.0	---	---	15	3.0	43.9	20.3	44.3		
Inspiration	303	---	---	35	6.7	---	---	18	1.5	48.1	20.4	44.8		
Safran	1094	---	---	127	14.8	---	---	17	2.3	48.2	20.9	41.6		
Sitro	689	---	---	80	17.0	---	---	15	1.3	47.9	20.3	42.7		
Visby	1713	---	---	199	16.8	---	---	22	2.7	48.3	20.3	43.8		
Syngenta														
NK Petrol	165	---	---	19	0.0	---	---	19	0.2	48.1	22.2	42.9		
NK Technic	359	---	---	42	4.1	---	---	18	0.5	47.1	22.2	39.5		
Mean	860	---	---	---	15.8	---	---	17	2.1	48.5	20.8	43.1		
CV	60	---	---	---	95.0	---	---	20	82.0	---	6.8	3.8		
LSD (0.05)	862	---	---	---	NS	---	---	NS	NS	---	NS	NS		

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.

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

Lingle, Wyoming

Jerry Nachtman
University of Wyoming

Planted: 9/4/2013 at 5 lb/a in 14-in. rows
Harvested: 7/23/2014
Herbicides: 1.5 pt/a Treflan
Insecticides: None
Irrigation: 0.75-0.80 in. per week mid May - mid July
Previous crop: Camelina
Soil test: NA
Fertilizer: 50-50-20 lb N-P-K fertilizer in fall
50-0-0 lb N-P-K fertilizer in spring
Soil type: Harverson and McCook loams
Elevation: 4197 ft Latitude: 42° 07'N
Comments: Despite a cold winter, winter survival was excellent and yields were normal.

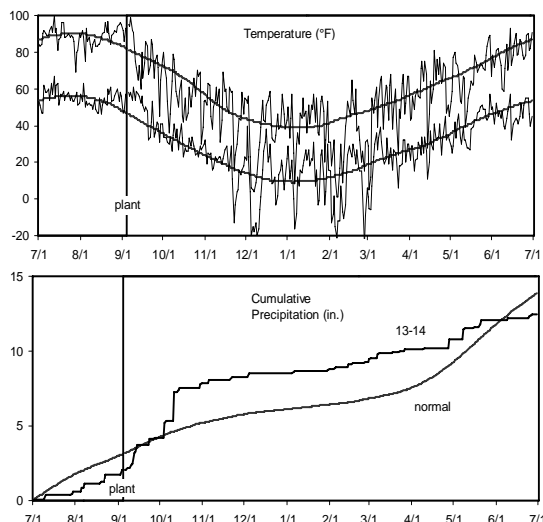


Table 26. Results for the 2014 National Winter Canola Variety Trial at Lingle, WY

Name	Yield (lb/a)			Yield (% of test avg.)			Winter survival (%)		Plant height (in.)	Fall stand (0-10)	Plant vigor ¹ (1-5)	Protein (%)	Oil (%)
	2014	2013	3-yr.	2014	2014	2013	3-yr.	(in.)					
CROPLAN by WinField													
HYCLASS 115W	1301	---	---	78	99.3	---	---	---	8.5	4.5	30.6	36.1	
HYCLASS 125W	1266	---	---	76	99.3	---	---	---	8.8	4.1	29.4	36.8	
DL Seeds Inc.													
Argos	2224	---	---	134	100	---	---	---	9.2	4.7	26.1	38.7	
Garou	1781	---	---	107	100	---	---	---	8.8	4.7	27.8	37.1	
DuPont Pioneer													
46W94	1611	---	---	97	98.7	---	---	---	8.7	4.5	26.1	37.3	
46W99	1811	---	---	109	98.7	---	---	---	8.3	4.1	28.9	35.4	
Exp 1301	1852	---	---	112	99.3	---	---	---	8.5	4.4	27.1	41.1	
Pioneer Exp1	1986	---	---	120	98.0	---	---	---	8.7	4.3	28.1	40.0	
PX112	1912	---	---	115	100	---	---	---	9.0	4.5	28.2	38.8	
PX117	2251	---	---	136	100	---	---	---	8.8	4.1	30.6	37.5	
High Plains Crop Development													
Claremore	1522	---	---	92	100	---	---	---	9.5	4.3	29.7	35.8	
Kansas State University													
KSR07363	1627	---	---	98	100	---	---	---	9.2	4.4	30.4	35.2	
KSUR21	2004	---	---	121	100	---	---	---	8.2	4.1	28.0	38.6	
Riley	1785	---	---	108	100	---	---	---	8.3	4.2	28.7	36.5	
Sumner	1231	---	---	74	100	---	---	---	8.8	4.1	28.8	36.0	
Wichita	1857	---	---	112	99.3	---	---	---	9.2	4.2	29.1	35.9	
MOMONT, France													
CHH2311	1936	---	---	117	96.0	---	---	---	9.5	4.9	25.6	39.3	
Chrome	1906	---	---	115	98.0	---	---	---	9.2	4.6	26.3	37.7	
Hekip	1390	---	---	84	98.0	---	---	---	8.5	4.4	28.8	34.6	
MH10G11	1787	---	---	108	91.7	---	---	---	9.3	4.9	26.8	39.2	
MH10L23	1732	---	---	104	98.0	---	---	---	9.0	4.7	26.6	38.4	
Monsanto / DEKALB													
DKW41-10	1255	---	---	76	98.0	---	---	---	8.7	4.3	30.2	33.6	
DKW44-10	1154	---	---	70	96.0	---	---	---	9.3	4.2	29.3	35.7	
DKW45-25	1506	---	---	91	100	---	---	---	9.0	4.4	28.5	34.9	
DKW46-15	1314	---	---	79	100	---	---	---	8.8	4.1	29.3	36.5	
DKW47-15	1515	---	---	91	99.3	---	---	---	8.8	4.4	29.8	35.1	

Table 26. Results for the 2014 National Winter Canola Variety Trial at Lingle, WY

Name	Yield (lb/a)			Yield (% of test avg.)			Winter survival (%)		Plant height (in.)	Fall stand (0-10)	Plant vigor ¹ (1-5)	Protein (%)	Oil (%)
	2014	2013	3-yr.	2014	2013	3-yr.	2014	2013					
Rubisco Seeds LLC													
Dimension	2028	---	---	122	98.0	---	---	---	---	8.7	4.6	28.1	36.5
Edimax CL	1919	---	---	116	100	---	---	---	---	8.7	4.8	28.5	36.6
Hornet	1998	---	---	120	99.3	---	---	---	---	8.8	4.7	26.8	36.4
Inspiration	2060	---	---	124	98.0	---	---	---	---	9.2	4.8	28.7	35.8
Mercedes	2259	---	---	136	100	---	---	---	---	9.0	4.9	25.9	40.3
Safran	2344	---	---	141	98.7	---	---	---	---	8.5	4.7	28.2	34.8
Sitro	1652	---	---	100	99.3	---	---	---	---	8.8	4.5	26.7	38.6
Visby	1663	---	---	100	98.7	---	---	---	---	8.5	4.7	26.8	37.8
Syngenta													
NK Petrol	1864	---	---	112	98.7	---	---	---	---	9.0	4.7	28.3	36.3
NK Technic	1966	---	---	119	100	---	---	---	---	8.7	4.6	27.9	34.2
Virginia State University													
Virginia	1096	---	---	66	100	---	---	---	---	8.8	4.2	29.5	34.7
VSX-3	1706	---	---	103	100	---	---	---	---	9.5	4.7	29.0	35.3
Mean	1739	---	---	---	98.9	---	---	---	---	8.9	4.5	28.2	36.8
CV	17	---	---	---	0.9	---	---	---	---	3.4	4.1	4.3	3.3
LSD (0.05)	607	---	---	---	1.4	---	---	---	---	0.5	0.3	2.6	2.5

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.

¹Plant vigor rated on a scale of 1=poor to 5=excellent.

Table 27. Northern 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
CROPLAN by WinField					Rubisco Seeds LLC				
HYCLASS 115W	2241	6	39.5	5	Dimension	2250	10	43.2	10
HYCLASS 125W	2620	4	38.0	3	Edimax CL	1562	2	39.4	2
DL Seeds Inc.					Syngenta				
Argos	1446	2	41.1	2	Hornet	2414	5	41.1	5
Garou	1781	1	37.1	1	Inspiration	1182	2	40.3	2
DuPont Pioneer					Virginia State University				
46W94	2235	2	37.9	2	Mercedes	2259	1	40.3	1
46W99	2291	2	35.1	2	Safran	2779	10	41.4	10
Exp 1301	1852	1	41.1	1	Sitro	2463	11	39.8	11
Pioneer Exp1	1986	1	40.0	1	Visby	2633	11	40.7	11
PX112	1560	2	42.2	2	Mean¹				
PX117	1479	2	41.9	2	Virginia	2257	9	37.2	9
High Plains Crop Development					VSX-3	2262	3	38.8	3
Claremore	2690	8	40.2	8	Mean¹				
Kansas State University					2454	13	39.5	12	
KSR07363	2446	2	36.5	2					
KSUR21	2004	1	38.6	1					
Riley	2509	11	40.1	11					
Sumner	2230	9	39.8	9					
Wichita	2474	11	39.7	11					
MOMONT, France									
CHH2311	1936	1	39.3	1					
Chrome	1989	5	41.7	5					
Hekip	1390	1	34.6	1					
MH10G11	1787	1	39.2	1					
MH10L23	1732	1	38.4	1					
Monsanto / DEKALB									
DKW41-10	2120	7	37.5	6					
DKW44-10	2830	5	36.1	4					
DKW45-25	2298	2	36.0	2					
DKW46-15	2392	7	40.6	6					
DKW47-15	2502	7	39.0	6					

Data averaged over a 6-year period from 2009-2014.

¹Number of mean observations, not average value of observations per entry.

Table 28. Field Ratings for Resistance to Blackleg (*Leptosphaeria maculans*)**National Winter Canola Variety Trial**

Lake Carl Blackwell, OK - 2012

Perkins, OK - 2013

John Damicone and Tyler Pierson, Oklahoma State University

Name	Incidence ¹		Severity ²		Name	Incidence		Severity	
	2012	2013	2012	2013		2012	2013	2012	2013
CROPLAN by WinField					Rubisco Seeds LLC				
HYCLASS 115W	82	93	1.9	3.4	Dimension	---	73	---	2.0
HYCLASS 125W	65	93	1.5	2.8	Edimax CL	48	77	1.0	1.7
DuPont Pioneer					Hornet	77	93	1.5	1.9
46W94	88	87	2.3	2.4	Inspiration	---	77	---	1.9
46W99	66	87	1.7	2.2	Mercedes	52	83	1.2	1.9
Pioneer Exp1	---	73	---	2.1	Safran	49	67	1.3	1.4
Exp 1301	---	70	---	1.9	Sitro	64	97	1.1	2.2
PX 112	---	73	---	1.6	Visby	66	93	1.6	2.2
PX 117	---	70	---	1.6	Syngenta				
High Plains Crop Development					NK Petrol	---	97	---	2.6
Claremore	53	83	0.8	2.1	NK Technic	---	93	---	2.3
Kansas State University					Virginia State University				
KSR07363	---	70	---	1.7	Virginia	40	80	0.7	2.5
KSUR21	---	80	---	1.4	VSX-3	35	83	1.3	2.3
Riley	65	83	1.0	2.3	CV				
Sumner	42	77	0.6	1.9	LSD (0.05)	23	22	33	27
Wichita	72	80	1.4	2.1		23	16	0.7	0.9
MOMONT / Photosyntech									
Chrome	54	47	1.2	1.1					
Hekip	---	90	---	1.5					
Monsanto / DEKALB									
DKW41-10	60	97	0.9	2.9					
DKW44-10	72	93	1.8	2.9					
DKW45-25	---	93	---	2.4					
DKW46-15	64	80	1.4	2.3					
DKW47-15	79	97	1.4	3.0					

¹ Percentage of plants with blackleg measured after harvest.² 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.

Temperatures in 2013 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 29. Seed sources for entries in the 2013-2014 National Winter Canola Variety Trial

Developer / marketer	Type ¹	Trait ²	Release date	Maturity ³	Developer / marketer	Type ¹	Trait ²	Release date	Maturity ³	
CROPLAN by WinField Paul Gregor (psgregor@landolakes.com)					MOMONT, France Thierry Momont (tmomont@momont.com)					
HyCLASS 115W	OP	RR/SURT	2008	E	Photosyntech Bob Amstrup (bob.amstrup@photosyntech.com)	Chrome	Hyb	---	2010	M
HyCLASS 125W	OP	RR/SURT	2010	M	Hekip	Hyb	---	2014	E	
HyCLASS 225W	OP	RR/SURT	2014	M	CHH2311	Hyb	---	---	F	
DL Seeds Inc. Kevin McCallum (kevin.mccallum@dlseeds.ca)					MH10G11	Hyb	---	---	F	
Agros	Hyb	---	---	E	MH10L23	Hyb	---	---	M	
Garou	Hyb	---	---	M	Monsanto / DEKALB Jeffery Herrmann (jeffery.e.herrmann@monsanto.com)					
NPZ 4005	Hyb	RR	---	M	DK Exstorm	Hyb	---	---	F	
Popular	Hyb	---	---	E	DK Imiron CL	Hyb	CL	---	F	
Raffiness	Hyb	---	---	M	DK Sensei	Hyb	SD	---	M	
DuPont Pioneer Daniel Berning (dan.berning@pioneer.com)					DKW41-10	OP	RR	2008	E	
46W94	Hyb	RR	2011	M	DKW44-10	OP	RR	2009	M	
46W99	Hyb	RR	2011	M	DKW45-25	OP	RR/SURT	2013	M	
Exp 1301	Hyb	---	---	M	DKW46-15	OP	RR/SURT	2008	M	
Exp 1302	Hyb	---	---	M	DKW47-15	OP	RR/SURT	2008	M	
Pioneer Exp1	Hyb	---	---	M	Rubisco Seeds LLC Claire Caldbeck (info@rubiscoseeds.com)					
Pioneer Exp6	Hyb	SD	---	F	Edimax CL	Hyb	CL	2012	M	
PX112	Hyb	SD	---	F	Dimension	Hyb	---	2008	E	
PX117	Hyb	SD	---	F	Hornet	Hyb	---	2008	M	
High Plains Crop Development Charlie Rife (charlie@highplainscd.com)					Inspiration	Hyb	---	2014	M	
Claremore	OP	IMI	2011	F	Mercedes	Hyb	---	2014	M	
Limagrain Cereal Seeds LLC Brent Conrady (Brent.Conrady@limagrain.com)					Safran	Hyb	---	2008	M	
Alabaster	Hyb	---	---	M	Sitro	Hyb	---	2007	E	
Albatros	Hyb	---	---	F	Visby	Hyb	---	2008	E	
Artoga	Hyb	---	---	M	Syngenta Bill Gilbert (bill.gilbert@syngenta.com)					
Kansas State University Canola Breeding Program Michael J. Stamm (mjstamm@ksu.edu)					NK Petrol	Hyb	---	---	M	
KS4410	OP	---	---	M	NK Technic	Hyb	---	---	M	
KS4506	OP	---	---	M	SY Marten	Hyb	---	---	M	
KS4549	OP	---	---	F	SY Saveo	Hyb	---	---	M	
KSR07363	OP	RR	2013	E	Star Specialty Seed, Inc. Jim Johnson (jimj_star@hotmail.com)					
KSUR21	OP	SU	---	F	Star 915W	OP	RR/SURT	2014	M	
Riley	OP	---	2010	M	Virginia State University Agricultural Experiment Station Harbans Bhardwaj (hbhardwaj@vsu.edu)					
Sumner	OP	SU	2003	E	Virginia	OP	---	2003	M	
Wichita	OP	---	1999	M	VSX-3	OP	---	---	M	
					VSX-4	OP	---	---	M	

¹ OP = open pollinated, Hyb = hybrid.

² SU & SURT = sulfonylurea carryover tolerant; CL = Clearfield (imidazolinone resistant); IMI = imidazolinone carryover tolerant; RR = Roundup Ready; SD = semidwarf.

³ E = Early; M = Medium; F = Full.

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