

**Report of Progress 1116** 



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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 Acceleron seed treatments to control insects and seedling diseases through the late fall and early winter months.

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

The Brassica Breeding and Research Program at the University of Idaho performed total oil and protein analysis for all sites using near-infrared spectroscopy.

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 weatherrelated 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.

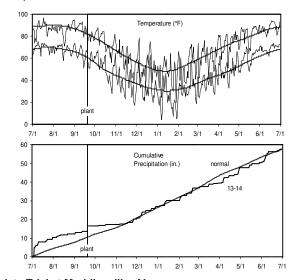


Table 1. Results for the 2014 National Winter Canola Variety Trial at Meridianville, AL

				Yield (% of		-		Plant	50%			
Name	•	Yield (lb	/a) <sup>1</sup>	test avg.)	Wint	ter surv	ival (%)	height	bloom	Shatter	Protein	Oil
	2014	2013	3-yr. <sup>2</sup>	2014	2014	2013	3-yr. <sup>2</sup>	(in.)	(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
<b>DuPont Pioneer</b>	•											
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 U	niversit	у										
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	ce											
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 / DEK												
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												
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

				Yield (% of				Plant	50%			
Name	,	rield (lb	/a) <sup>1</sup>	test avg.)	Wint	ter surv	ival (%)	height	bloom	Shatter	Protein	Oil
	2014	2013	3-yr. <sup>2</sup>	2014	2014	2013	3-yr. <sup>2</sup>	(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 U	Jniversit	у										
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

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

<sup>&</sup>lt;sup>2</sup>3-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. Unusally cold weather after dormancy caused very little

winterkill.

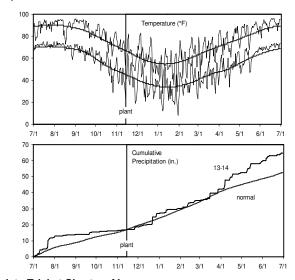


Table 2. Results for the 2014 National Winter Canola Variety Trial at Shorter, AL

				Yield (% of				Plant		Test		
Name	Υ	/ield (lb	/a) <sup>1</sup>	test avg.)		er sur	vival (%)	height	Maturity	weight	Protein	Oil
	2014	2012	2-yr.	2014	2014	2012	2-yr.	(in.)	(DOY)	(lb/bu)	(%)	(%)
Kansas State Un	iversity	,										
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	e											
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 / DEK	ALB											
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 L	LC.											
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 Un	niversity	у										
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

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

#### Griffin, Georgia

## 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.

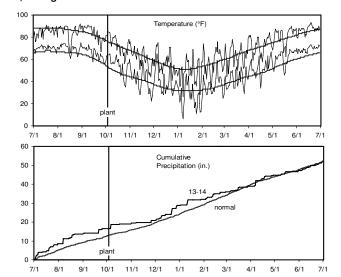


Table 3. Results for the 2014 National Winter Canola Variety Trial at Griffin, GA

				Yield (% of			•	Plant	50%	Test		
Name		Yield (II	o/a)	test avg.)	Win	ter surv	ival (%)	height	bloom	weight	Protein	Oil
	2014	2013	3-yr. <sup>1</sup>	2014	2014	2013	3-yr.1	(in.)	(DOY)	(lb/bu)	(%)	(%)
CROPLAN by Wi	nField		•				- •					
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
<b>DuPont Pioneer</b>												
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		-										
Claremore	3525	2556	2332	94	100	93.3	97.8	62	97	51.2	26.3	39.9
Kansas State Uni	•											
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

Table 3. Results				Yield (% of	,		,	Plant	50%	Test		
Name		Yield (II	b/a)	test avg.)	Win	ter surv	ival (%)	height	bloom	weight	Protein	Oil
	2014	2013	3-yr.1	2014	2014	2013	3-yr.1	(in.)	(DOY)	(lb/bu)	(%)	(%)
Monsanto / DEK	ALB											
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 L	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 Se	eed, Inc.	i										
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 Ur	niversity											
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

<sup>&</sup>lt;sup>1</sup>3-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.

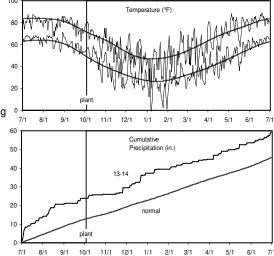


Table 4. Results for the 2014 National Winter Canola Variety Trial at Mills River, NC

				Yield (% of		-		Plant		Test		
Name	١	/ield (lb	/a) <sup>1</sup>	test avg.)	Wint	er survi	ival (%)	height	Moisture	weight	Protein	Oil
	2014	2013	3-yr.	2014	2014	2013	3-yr.	(in.)	(%)	(lb/bu)	(%)	(%)
<b>CROPLAN</b> by Wi	nField											
HYCLASS 115W	2167			105					11.3	48.7		
<b>DuPont Pioneer</b>												
46W99	2224			108					13.1	48.5		
Kansas State Un	iversity	/										
Wichita	2008			98					11.8	48.9		
Limagrain												
Alabaster	3552			173					13.3	49.2		
Artoga	1974			96					12.7	42.1		
MOMONT, Franc	е											
Chrome	4347			211					12.8	48.5		
Monsanto / DEK	ALB											
DKW44-10	2254			110					12.5	49.3		
Rubisco Seeds L	LC											
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 Un		y		- <del></del>								
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		

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

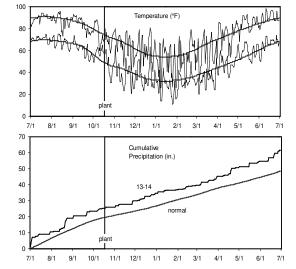


Table 5. Results for the 2014 National Winter Canola Variety Trial at Wallace, NC

				Yield (% of			·	Plant		Test	·	
Name	<u> </u>	rield (lb	/a) <sup>1</sup>	test avg.)	Wint	ter survi	ival (%)	height	Moisture	weight	Protein	Oil
	2014	2013	3-yr.	2014	2014	2013	3-yr.	(in.)	(%)	(lb/bu)	(%)	(%)
<b>CROPLAN by Wi</b>	nField											
HYCLASS 115W	1140			95					8.0			
<b>DuPont Pioneer</b>												
46W99	752			63					12.7			
Kansas State Un	iversity	у										
Wichita	1176			98					8.5			
Limagrain												
Alabaster	1383			115					8.8			
Artoga	1626			136					8.5			
MOMONT, Franc	е											
Chrome	1354			113					10.8			
Monsanto / DEK	ALB											
DKW44-10	1390			116					8.1			
Rubisco Seeds L	LC											
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 Un	iversit	у										
Virginia	1406			117					9.4			
Mean	1334								9.5			
CV	18								13.7			
LSD (0.05)	415								2.2			

<sup>&</sup>lt;sup>1</sup>Yields 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.

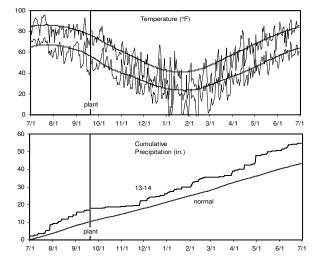


Table 6. Results for the 2014 National Winter Canola Variety Trial at Pittstown, NJ

				Yield (% of			•	Plant		Test		
Name		Yield (lb	/a) <sup>1</sup>	test avg.)	Wint	er surviv	/al (0-9) <sup>2</sup>	height	Moisture	weight	Protein	Oil
	2014	2013	3-vr. <sup>3</sup>	2014	2014	2013	3-vr. <sup>3</sup>	(in.)	(%)	(lb/bu)	(%)	(%)
<b>CROPLAN by Wi</b>	nField		<b>-</b> • • • • • • • • • • • • • • • • • • •				<b>-</b>	` '	•	,	` '	
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
<b>DuPont Pioneer</b>												
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	Develo	pment										
Claremore	2109	2984	1994	117	5.0				10.2	47.4	23.5	44.0
Kansas State Un	iversity	1										
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, Franc	е											
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

				Yield (% of				Plant		Test		
Name	,	Yield (lb	/a) <sup>1</sup>	test avg.)	Winte	er surviv	al (0-9) <sup>2</sup>	height	Moisture	weight	Protein	Oil
	2014	2013	3-vr. <sup>3</sup>	2014	2014	2013	3-vr. <sup>3</sup>	(in.)	(%)	(lb/bu)	(%)	(%)
Monsanto / DEK	ALB											
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 L	LC											
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 Se	ed, 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 Un	iversity	,										
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

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

<sup>&</sup>lt;sup>2</sup>Winter survival rated on a scale of 0=complete winterkill to 9=no winterkill.

<sup>&</sup>lt;sup>3</sup>3-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 Treflan 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.

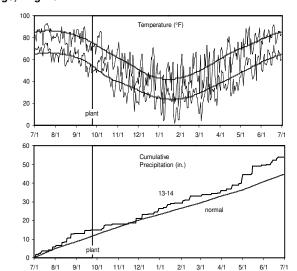


Table 7. Results for the 2014 National Winter Canola Variety Trial at Orange, VA

				Yield (% of				Plant		Test		
Name	,	Yield (lb	/a) <sup>1</sup>	test avg.)	Wint	ter survi	val (%)	height	Moisture	weight	Protein	Oil
	2014	2013	3-yr. <sup>2</sup>	2014	2014	2013	3-yr.	(in.)	(%)	(lb/bu)	(%)	(%)
<b>CROPLAN by Wi</b>	inField											
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
<b>DuPont Pioneer</b>												
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	Devel	•										
Claremore	1441	2463	1310	99					8.3	45.1	25.6	41.2
Kansas State Un	iversit	y										
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, Franc	е											
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

				Yield (% of			<u> </u>	Plant		Test		
Name	,	rield (lb	/a) <sup>1</sup>	test avg.)	Wint	er survi	val (%)		Moisture		Protein	Oil
	2014	2013	3-yr. <sup>2</sup>	2014	2014	2013	3-yr.	(in.)	(%)	(lb/bu)	(%)	(%)
Monsanto / DEK	ALB		• • • • • • • • • • • • • • • • • • • •				-					
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 S	eed, Ind	<b>.</b>										
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 U	niversit	у										
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

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

<sup>&</sup>lt;sup>2</sup>3-year average includes 2012, 2013, and 2014.

**Table 8. Southeast Region Summary Table** 

		Number of		Number of			Number of		Number of
Name	Yield	observations	Oil	observations	Name	Yield	observations	Oil	observations
	(lb/a)		(%)			(lb/a)		(%)	
CROPLAN by Wir	rField				Monsanto / DEI	KALB			
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	1583	29	38.8	28
Argos	2668	3	43.7	3	DKW44-10	1821	20	38.3	18
Garou	2769	3	41.9	3	DKW45-25	2163	3	40.3	3
NPZ4005	2419	3	44.0	3	DKW46-15	1787	29	41.3	28
Popular	2504	3	45.6	3	DKW47-15	1777	29	39.7	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 S	Seed, Inc.			
High Plains Crop	Develop	ment			Star 915W	2437	3	41.1	3
Claremore	2142	28	40.2	27	Syngenta				
Kansas State Uni	versity				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 L	<b>Iniversity</b>			
Wichita	1944	40	40.3	36	Virginia	2019	37	40.0	33
Limagrain					VSX-3	2171	20	39.3	19
Alabaster	2705	6	41.6	4	VSX-4	2028	4	40.8	4
Albatros	2440	4	42.7	4	Mean'	2054	40	40.6	36
Artoga	2191	6	42.3	4					
MOMONT, France					Data averaged of	over a 6-ve	ar period from 20	09-201	4.
CHH2311	2324	4	43.9	4	Ŭ	,	•		
Chrome	2642	27	41.8	24	<sup>1</sup> Number of mea	n observat	tions, not average	value	of observations
Hekip	2690	9	42.1	9	per entry.	35551 Va	, not avorage	· alao	c. 55001 (allo110
MH10G11	1844	4	43.0	4	po. 5/10/j.				
MH10L23	2551	4	43.3	4					

#### 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

however, cold winter temperatures caused some winter kill in many entries.

Cool spring weather delayed

development.

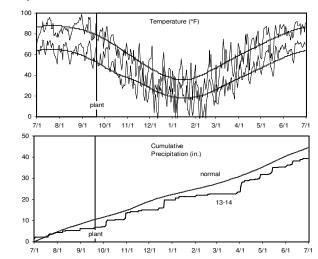


Table 9. Results for the 2014 National Winter Canola Variety Trial at Vincennes, IN

Table 3. Hesuits				Yield (% of			•	Plant		Test		
Name		Yield (It	o/a)	test avg.)		ter surv	ival (%)	height	Maturity	weight	Protein	Oil
	2014	2013	3-vr. <sup>1</sup>	2014	2014	2013	3-vr. <sup>1</sup>	(in.)	(DOY)	(lb/bu)	(%)	(%)
<b>CROPLAN</b> by Wi	nField		<b>-</b> • • • • • • • • • • • • • • • • • • •				¥	, ,	, ,	,	` '	` '
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
<b>DuPont Pioneer</b>												
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	Develo	pment										
Claremore	2423	2563	2493	100	78.3	100	89.2	54	167	51.1	26.9	37.5
Kansas State Un	iversity											
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

				Yield (% of			·	Plant		Test		
Name		Yield (lb	/a)	test avg.)	Win	ter survi	val (%)	height	Maturity	weight	Protein	Oil
	2014	2013	3-vr. <sup>1</sup>	2014	2014	2013	3-vr. <sup>1</sup>	(in.)	(DOY)	(lb/bu)	(%)	(%)
Monsanto / DEK	ALB											
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 L	LC											
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 Se	ed, 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 Un	iversity	1										
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

<sup>&</sup>lt;sup>1</sup>3-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

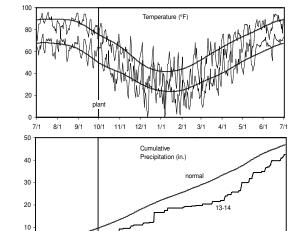
Soil type: Menfro silt loam

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.



10/1 11/1 12/1 1/1

9/1

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

				Yield (% of				Plant		Test		
Name		Yield (II	o/a)	test avg.)	Wint	ter surv	ival (%)	height	Shatter	weight	Protein	Oil
	2014	2013	3-yr.	2014	2014		3-yr.	(in.)	(%)	(lb/bu)	(%)	(%)
<b>CROPLAN</b> by Wi	inField											
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
<b>DuPont Pioneer</b>												
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
<b>High Plains Crop</b>	Devel	opment	i									
Claremore					67.5			27	3.5		19.6	44.8
Kansas State Un	iversit	у										
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, Franc	е											
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

				Yield (% of			ui at Oape	Plant	•	Test		
Name		Yield (lb	o/a)	test avg.)		er sur	vival (%)	height	Shatter	weight	Protein	Oil
	2014	2013	3-yr.	2014	2014	2013	3-yr.	(in.)	(%)	(lb/bu)	(%)	(%)
Monsanto / DEK	ALB											
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 S	eed, Inc	c.										
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 U	niversit	y										
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

#### 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.

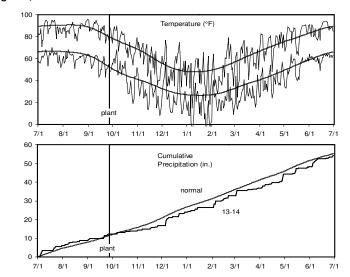


Table 11. Results for the 2014 National Winter Canola Variety Trial at Springfield, TN

				Yield (% of				Plant	Spring	Test		
Name		Yield (It		test avg.)	Win	iter surv	val (%)	height	stand	weight	Protein	Oil
	2014	2013	3-yr. <sup>1</sup>	2014	2014	2013	3-yr.	(in.)	(%)	(lb/bu)	(%)	(%)
CROPLAN by Wir	nField											
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
<b>High Plains Crop</b>	Develo	pment										
Claremore	1891	2264	2328	89				46	100	48.0	24.3	43.0
Kansas State Uni	versity											
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	9											
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

				Yield (% of		•	,	Plant	Spring	Test		
Name		Yield (It	o/a)	test avg.)	Win	ter surviv	al (%)	height	stand	weight	Protein	Oil
	2014	2013	3-yr. <sup>1</sup>	2014	2014	2013	3-yr.	(in.)	(%)	(lb/bu)	(%)	(%)
Monsanto / DEK	ALB		- 1				-					
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 S	eed, 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 U	niversity											
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

<sup>&</sup>lt;sup>1</sup>3-year average includes 2012, 2013, and 2014.

Table 12. Midwest Region Summary Table

		Number of		Number of			Number of		Number of
Name	Yield	observations	Oil	observations	Name	Yield	observations	Oil	observations
	(lb/a)		(%)			(lb/a)		(%)	
<b>CROPLAN</b> by Wir	ıField				Monsanto / DEI	<b>KALB</b>			
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.					DKW41-10	1757	24	39.2	21
Argos	2155	2	42.1	2	DKW44-10	1693	12	38.3	11
Garou	1744	2	41.0	2	DKW45-25	1618	2	39.0	2
NPZ4005	2378	2	42.7	2	DKW46-15	1656	24	41.6	21
Popular	2829	2	43.9	2	DKW47-15	1752	24	40.3	21
Raffiness	2247	2	42.4	2	Rubisco Seeds	LLC			
<b>DuPont Pioneer</b>					Dimension	2156	27	43.3	25
46W94	2273	8	41.9	7	Edimax CL	2722	10	41.2	8
46W99	2218	8	42.0	7	Hornet	2305	17	41.1	15
Exp 1301	2571	5	43.3	5	Inspiration	2989	5	41.7	5
Exp 1302	2641	2	42.7	2	Mercedes	2674	10	43.6	8
Pioneer Exp1	2796	5	43.7	5	Safran	2663	31	41.3	28
Pioneer Exp6	2591	2	41.0	2	Sitro	2582	32	41.7	28
PX112	2542	5	41.3	5	Visby	2285	30	41.4	26
PX117	2510	5	41.6	5	Star Specialty S	Seed, Inc.			
<b>High Plains Crop</b>	Develop	ment			Star 915W	2046	2	40.4	2
Claremore	2256	30	41.1	26	Syngenta				
Kansas State Uni	versity				NK Petrol	2800	5	40.4	5
KSR07363	2144	5	39.8	5	NK Technic	2328	5	39.7	5
KSUR21	2201	5	40.7	5	SY Marten	2201	2	41.2	2
Riley	2090	30	42.0	26	SY Saveo	2547	2	41.3	2
Sumner	2073	30	41.4	26	Virginia State U	Iniversity			
Wichita	2185	30	41.2	26	Virginia	2155	30	40.7	26
Limagrain					VSX-3	1952	17	39.7	15
Alabaster	2889	2	41.3	2	VSX-4	2093	2	40.0	2
Albatros	2929	2	42.5	2	Mean'	2184	32	41.5	28
Artoga	3036	2	41.1	2					
MOMONT, France					Data averaged of	ver a 6-ye	ar period from 20	09-201	4.
CHH2311	2170	2	42.8	2	ŭ	•	-		
Chrome	2457	27	42.7	24	<sup>1</sup> Number of mea	n observat	tions, not average	value	of observations
Hekip	2984	5	41.6	5	per entry.	2.250			
MH10G11	1230	2	41.3	2	F ) ·				
MH10L23	1696	2	41.8	2					

#### 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.

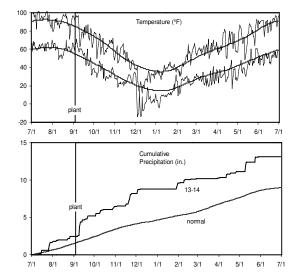


Table 13. Results for the 2014 National Winter Canola Variety Trial at Fruita, CO

Table 13. Nesult				Yield (% of		o.,		50%		Test		
Name		Yield (II	b/a)	test avg.)		ter surv	ival (%)		Moisture		Protein	Oil
	2014	2013	2-yr.	2014	2014	2013	2-yr.	(DOY)	(%)	(lb/bu)	(%)	(%)
CROPLAN by Wi	nField							, ,	• • •	,	. ,	
HYCLASS 115W		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
<b>DuPont Pioneer</b>												
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	Devel	opmen	t									
Claremore	1060	1654	1357	62				110	4.9	41.8	20.1	40.5
Kansas State Un	iversit	у										
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, Franc	е											
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

				Yield (% of				50%		Test		
Name		Yield (lk	o/a)	test avg.)	Wint	er survi	ival (%)	bloom	Moisture	weight	Protein	Oil
	2014	2013	2-yr.	2014	2014	2013	2-yr.	(DOY)	(%)	(lb/bu)	(%)	(%)
Monsanto / DEK	ALB											
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 U	niversit	у										
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

#### 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.

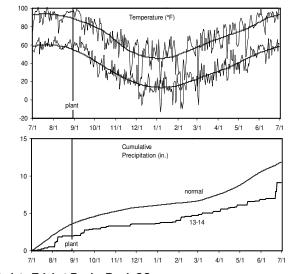


Table 14. Results for the 2014 National Winter Canola Variety Trial at Rocky Ford, CO

				Yield (% of				Plant		Test		
Name	•	Yield (lb	/a) <sup>1</sup>	test avg.)		ter surv	ival (%)	height	Moisture	weight	Protein	Oil
	2014	2012	2-yr.	2014	2014	2012	2-yr.	(in.)	(%)	(lb/bu)	(%)	(%)
<b>CROPLAN</b> by Wi	nField		-				-					
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
<b>DuPont Pioneer</b>												
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	Devel	opment										
Claremore	166	2499	1333	33	63.3			39	5.3		29.7	31.8
Kansas State Un	iversit	у										
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, Franc	е											
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 / DEK	ALB											
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

				Yield (% of				Plant		Test		
Name	•	Yield (lb	/a) <sup>1</sup>	test avg.)	Wint	ter surv	ival (%)	height	Moisture	weight	Protein	Oil
	2014	2012	2-yr.	2014	2014	2012	2-yr.	(in.)	(%)	(lb/bu)	(%)	(%)
Rubisco Seed	s 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

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

#### Andale, Kansas

#### Brent Gruenbacher and Mike Patry

Planted: 9/27/2013 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.

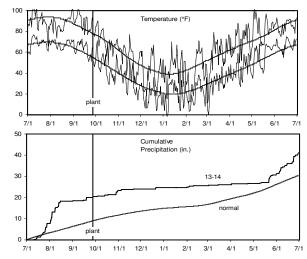


Table 15. Results for the 2014 National Winter Canola Variety Trial at Andale, KS

Table 15. Hesuits				Yield (% of				Fall		Test		
Name		Yield (lb	/a)	test avg.)		er surviv	/al (1-5) <sup>1</sup>	stand	Moisture	weight	Protein	Oil
	2014	2013	3-yr.	2014	2014	2013	3-yr.	(0-10)	(%)	(lb/bu)	(%)	(%)
<b>CROPLAN</b> by Wi	nField							,	•	,	` '	
HyCLASS 115W		2892			2.3			4.3				
HyCLASS 125W		2614			3.3			4.7				
<b>DuPont Pioneer</b>												
46W94		3148			4.9			7.3				
46W99		2950			3.8			3.0				
Kansas State Un	iversity	,										
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, Franc	е											
Chrome		3380			5.0			7.3				
Monsanto / DEK	ALB											
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 L	.LC											
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 Se	ed, Inc	<b>).</b>										
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				

<sup>&</sup>lt;sup>1</sup>Winter survival rated on a scale of 1=100-80% survival and 5=20-0% survival.

#### Belleville, Kansas

Jane Lingenfelser 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

extreme cold over a long period caused winterkill. Spring drought resulted in

very poor yields.

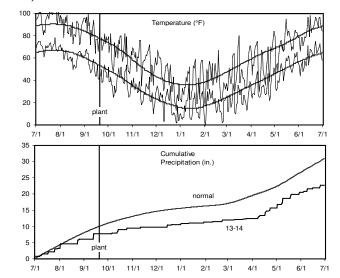


Table 16. Results for the 2014 National Winter Canola Variety Trial at Belleville, KS

				Yield (% of			•	Plant		Test		
Name		Yield (It	o/a) <sup>1</sup>	test avg.)	Wint	er survi	val (1-5) <sup>2</sup>	height	Moisture	weight	Protein	Oil
	2014	2013	3-yr. <sup>3</sup>	2014	2014	2013	3-yr. <sup>3</sup>	(in.)	(%)	(lb/bu)	(%)	(%)
<b>CROPLAN</b> by Wi	nField		7									
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
<b>DuPont Pioneer</b>												
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
<b>High Plains Crop</b>	Develo	pment										
Claremore	501	2707	2082	103	3.3			27	8.7		30.9	31.0
Kansas State Uni	iversity											
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

				Yield (% of				Plant		Test		
Name		Yield (lb	/a) <sup>1</sup>	test avg.)	Wint	er survi	val (1-5) <sup>2</sup>	height	Moisture	weight	Protein	Oil
	2014	2013	3-yr. <sup>3</sup>	2014	2014	2013	3-yr. <sup>3</sup>	(in.)	(%)	(lb/bu)	(%)	(%)
MOMONT, Fran	се											
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 / DEk	(ALB											
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 S	eed, 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 U	niversity	,										
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

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

<sup>&</sup>lt;sup>2</sup>Winter survival rated on a scale of 1=100-80% survival and 5=20-0% survival.

<sup>&</sup>lt;sup>3</sup>3-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

7/3/2014 Harvested: Herbicides: 3 pt/a Prowl Insecticides: None Irrigation: 15.9 in. Previous crop: Corn

Soil test: 92-19-688 ppm N-P-K

6-26-0-9 lb N-P-K-S fertilizer in fall Fertilizer:

100-0-0 lb N-P-K fertilizer in spring

Soil type: Ulyssess-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.

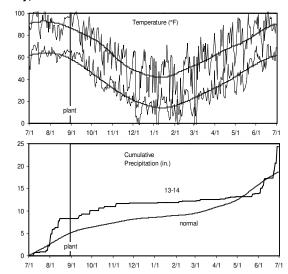


Table 17. Results for the 2014 National Winter Canola Variety Trial at Garden City, KS

Table 17. Results	, 101 (11	C 2014 I	- Tutional	Yield (% of		iai at Gara	Plant		Test		
Name	,	Yield (lb	/a) <sup>1</sup>	test avg.)	Winter	survival	height	Shatter		Protein	Oil
	2014	2012	2-yr.	2014	2014 (1-5) <sup>2</sup>	2013 (%)	(in.)	(%)	(lb/bu)	(%)	(%)
CROPLAN by Wi	nField				2011(1.0)						
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
<b>DuPont Pioneer</b>											
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	Devel	opment	i								
Claremore	782	1613	1197	70	3.3	71.7	35	11.7	49.4	29.4	35.6
Kansas State Un	iversity	y									
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, Franc											
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

				Yield (% of			Plant		Test		
Name	•	Yield (lb	/a) <sup>1</sup>	test avg.)	Winter s	survival	height	Shatter	weight	Protein	Oil
	2014	2012	2-yr.	2014	2014 (1-5) <sup>2</sup>	2013 (%)	(in.)	(%)	(lb/bu)	(%)	(%)
Monsanto / DE	KALB										
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	s 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	Universit	у									
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

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

<sup>&</sup>lt;sup>2</sup>Winter 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.

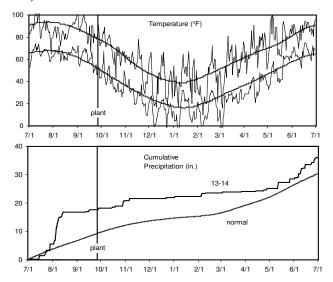


Table 18. Results for the 2014 National Winter Canola Variety Trial at Hutchinson, KS

				Yield (% of				Plant		Test		
Name		Yield (lb	o/a) <sup>1</sup>	test avg.)	Wint	er surviv	/al (1-5) <sup>2</sup>	height	Moisture	weight	Protein	Oil
	2014	2013	2-yr.	2014	2014	2013	2-yr.	(in.)	(%)	(lb/bu)	(%)	(%)
CROPLAN by Wi	nField											
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							
<b>DuPont Pioneer</b>												
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	Develo	pment										
Claremore	904	1850	1377	225	3.5				4.7		27.3	36.8
Kansas State Uni	iversity											
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

	Yield (% of Plant											
Name		Yield (lb	/a) <sup>1</sup>	test avg.)	Wint	er survi	/al (1-5) <sup>2</sup>	height	Moisture	weight	Protein	Oil
	2014	2013	2-yr.	2014	2014	2013	2-yr.	(in.)	(%)	(lb/bu)	(%)	(%)
MOMONT, France	ce											
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 / DEK	ALB											
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.
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 S	eed, Inc.	1										
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.
SY Marten	223			56	4.5				8.1		25.4	34.
SY Saveo	0			0	5.0							
Virginia State U	niversity	1										
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.
CV	118	14			13.5						4.1	4.0
LSD (0.05)	766	482			0.9						NS	NS

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

 $<sup>^2</sup>$ Winter 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.

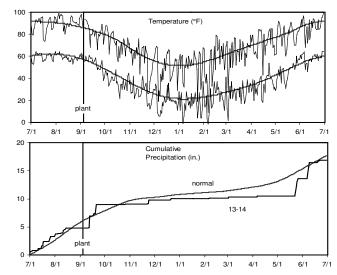


Table 19. Results for the 2014 National Winter Canola Variety Trial at Clovis, NM

Table 19. nesults				Yield (% of	,		, , , , , , , , , , , , , , , , , , , ,	Plant	50%	Test		
Name		Yield (II	o/a)	test avg.)	Win	ter surv	ival (%)	height	bloom	weight	Protein	Oil
-	2014	2013	3-yr. <sup>1</sup>	2014	2014	2013	3-yr. <sup>1</sup>	(in.)	(DOY)	(lb/bu)	(%)	(%)
CROPLAN by Wir	nField		<u> </u>				<del></del>		,	, ,		
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
<b>DuPont Pioneer</b>												
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
<b>High Plains Crop</b>	Develo	pment										
Claremore	1302	2404	2031	102	97.7	95.0	96.9	27	101	48.3	27.5	35.7
Kansas State Uni	versity											
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

				Yield (% of				Plant	50%	Test		
Name		Yield (It	o/a)	test avg.)	Win	ter surv	ival (%)	height	bloom	weight	Protein	Oil
	2014	2013	3-yr. <sup>1</sup>	2014	2014	2013	3-yr. <sup>1</sup>	(in.)	(DOY)	(lb/bu)	(%)	(%)
Monsanto / DEK	ALB											
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 I	LC											
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 Ur	iversity											
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

<sup>&</sup>lt;sup>1</sup>3-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.

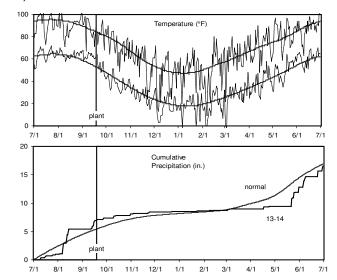


Table 20. Results for the 2014 National Winter Canola Variety Trial at Goodwell, OK

				Yield (% of				Plant		Test		
Name		Yield (II	o/a) <sup>1</sup>	test avg.)	Wint	er surviv	al (0-10)	height	Moisture	weight	Protein	Oil
	2014	2012	2-yr.	2014	2014	2012	2-yr.	(in.)	(%)	(lb/bu)	(%)	(%)
CROPLAN by Win	nField							` ′	` ,	,	` ,	
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
<b>DuPont Pioneer</b>												
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
<b>High Plains Crop</b>	Develo	pment										
Claremore	1803	1995	1899	103	10				6.3	49.4	27.4	36.5
Kansas State Uni	iversity											
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

Table 20. Hesuits				Yield (% of			ooawen, c	Plant		Test		
Name		Yield (lb	/a) <sup>1</sup>	test avg.)	Wint	er surviv	al (0-10)		Moisture	weight	Protein	Oil
	2014	2012	2-yr.	2014	2014	2012	2-yr.	(in.)	(%)	(lb/bu)	(%)	(%)
MOMONT, France	9											
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 / DEKA	ALB											
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 L	LC											
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 Se	ed, 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 Un	-											
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	 b - LOD			NS	2.5	NS	2.6

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

## 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

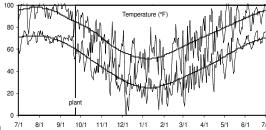
Fertilizer: 27-69-0-15-1.5 lb N-P-K-S-Zn fertilizer in fall

Soil type: Abilene clay loam

Elevation: 1436 ft Latitude: 34° 11'N

Comments: The plot was abandoned as a result

of severe winterkill.



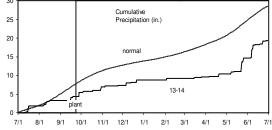


Table 21. Results for the 2014 National Winter Canola Variety Trial at Chillicothe, TX

				Yield (% of				Fall	50%	Test		
Name		Yield (lb	o/a)	test avg.)	Wint	er surv	ival (%)	stand	bloom	weight	Protein	Oil
	2014	2013	3-yr.	2014	2014	2013	3-yr.	(0-10)	(DOY)	(lb/bu)	(%)	(%)
<b>CROPLAN by Wi</b>	inField											
HYCLASS 115W					83.3			7.3	99			
HYCLASS 125W					86.7			8.3	100			
<b>DuPont Pioneer</b>												
46W94					50.0			6.0	112			
46W99					68.3			6.3	110			
Kansas State Un	iversit	у										
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, Franc	е											
Chrome					30.0			7.3				
Monsanto / DEK	ALB											
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 L	LC											
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

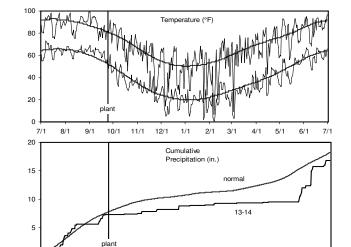
Soil type: Sherm clay loam

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.



10/1 11/1 12/1

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

1				Yield (% of				Plant		Test		
Name		Yield (lb	/a) <sup>1</sup>	test avg.)	Win	ter surv	ival (%)	height	Shatter	weight	Protein	Oil
	2014	2012	2-yr.	2014	2014	2012	2-yr.	(in.)	(%)	(lb/bu)	(%)	(%)
CROPLAN by Wi	nField											
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
<b>DuPont Pioneer</b>												
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	9											
Chrome	625	2781	1703	87				34	0.0	47.4	25.8	21.2
Monsanto / DEKA												
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

				Yield (% of				Plant		Test		
Name		Yield (lb	/a) <sup>1</sup>	test avg.)	Win	ter survi	ival (%)	height	Shatter	weight	Protein	Oil
	2014	2012	2-yr.	2014	2014	2012	2-yr.	(in.)	(%)	(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

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

#### **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.

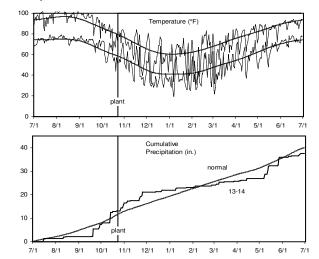


Table 23. Results for the 2014 National Winter Canola Variety Trial at College Station, TX

14510 201 1100411				Yield (% of				Plant	50%	Test		
Name		Yield (lb	/a)	test avg.)	Win	ter survi	val (%)	height	bloom	weight	Protein	Oil
	2014	2013	3-yr.	2014	2014	2013	3-yr.	(in.)	(DOY)	(lb/bu)	(%)	(%)
<b>CROPLAN by Wi</b>	nField											
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
<b>DuPont Pioneer</b>												
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	Develo	pment										
Claremore	775			66				48	101	46.5	26.3	37.6
Kansas State Un	iversity											
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	е											
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

Table 23. Resul				Yield (% of			9	Plant	50%	Test		
Name		Yield (It	o/a)	test avg.)	Win	ter survi	val (%)	height	bloom	weight	Protein	Oil
	2014	2013	3-yr.	2014	2014	2013	3-yr.	(in.)	(DOY)	(lb/bu)	(%)	(%)
Monsanto / DEI	KALB											
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 S	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 U	Iniversity	1										
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

Table 24. Great Plains Region Summary Table

		Number of		Number of			Number of		Number of
Name	Yield	observations	Oil	observations	Name	Yield	observations	Oil	observations
	(lb/a)		(%)			(lb/a)		(%)	
<b>CROPLAN</b> by Win	Field				Monsanto / DEI	<b>KALB</b>			
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.					DKW41-10	1661	51	37.7	49
Argos	1586	3	41.0	3	DKW44-10	2004	29	37.1	27
Garou	1770	3	40.6	3	DKW45-25	1374	3	38.8	3
NPZ4005	1856	3	41.4	3	DKW46-15	1914	51	40.2	49
Popular	1741	3	42.4	3	DKW47-15	1919	51	39.0	49
Raffiness	1718	3	42.2	3	Rubisco Seeds	LLC			
DuPont Pioneer					Dimension	2140	38	40.5	38
46W94	2505	21	39.7	19	Edimax CL	2543	20	39.4	18
46W99	2314	21	39.6	18	Hornet	2389	28	38.9	26
Exp 1301	2434	8	41.6	8	Inspiration	2333	8	39.8	8
Exp 1302	1653	3	40.4	3	Mercedes	2729	17	41.1	16
Pioneer Exp1	2332	8	41.9	8	Safran	2538	54	39.8	52
Pioneer Exp6	1486	3	42.1	3	Sitro	2451	54	39.9	52
PX112	2345	8	40.8	8	Visby	2513	47	39.7	44
PX117	2304	8	41.2	8	Star Specialty S	Seed, Inc.			
High Plains Crop I	Developi	ment			Star 915W	1339	2	37.5	2
Claremore	2034	47	39.0	44	Syngenta				
Kansas State Univ	ersity				NK Petrol	2668	8	37.9	8
KS4410	1345	3	39.1	3	NK Technic	2808	8	37.4	8
KS4506	1405	3	40.3	3	SY Marten	1760	2	38.1	2
KS4549	1193	3	39.6	3	SY Saveo	1941	2	39.5	2
KSR07363	1974	8	38.8	8	Virginia State U	Iniversity			
KSUR21	2015	7	38.2	7	Virginia	2128	45	39.1	43
Riley	2282	53	40.3	50	VSX-3	2246	23	38.1	22
Sumner	2003	53	39.6	51	VSX-4	1343	3	38.8	3
Wichita	2142	55	39.3	53	Mean'	2175	55	39.5	53
Limagrain									
Alabaster	1589	3	39.9	3	Data averaged of	ver a 6-ve	ar period from 20	09-201	4.
Albatros	1782	3	41.4	3		, .			
Artoga	1690	3	40.3	3	<sup>1</sup> Number of mea	n observat	tions, not average	value	of observations
MOMONT, France			. 3.0		per entry.	obocival	, not avoidye	value	c. Josef valions
CHH2311	1521	3	41.1	3	por only.				
Chrome	2565	39	40.2	37					
Hekip	2436	8	39.1	8					
			41.3						
MH10G11	1220	3	413	3					

#### 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.

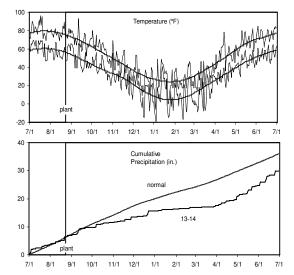


Table 25. Results for the 2014 National Winter Canola Variety Trial at Alburgh, VT

				Yield (% of				Plant	Spring	Test		
Name	١	ield (lb	/a) <sup>1</sup>	test avg.)	Wint	er surv	ival (%)	height	vigor	weight	Protein	Oil
	2014	2013	3-yr.	2014	2014	2013	3-yr.	(in.)	(0-10)	(lb/bu)	(%)	(%)
DL Seeds Inc.												
Argos	668			78	11.9			20	2.0	47.2	19.9	43.5
<b>DuPont Pioneer</b>												
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 Ur	niversity	/										
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, Franc	е											
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 I	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

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

## 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.

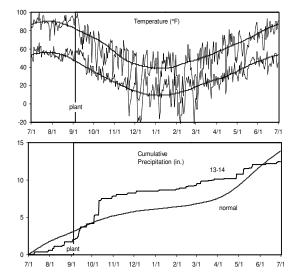


Table 26. Results for the 2014 National Winter Canola Variety Trial at Lingle, WY

Tubic 20: Headit				Yield (% of		-		Plant	Fall	Plant		
Name		Yield (II	o/a)	test avg.)	Win	ter surv	ival (%)	height	stand	vigor <sup>1</sup>	Protein	Oil
	2014	2013	3-yr.	2014	2014	2013	3-yr.	(in.)	(0-10)	(1-5)	(%)	(%)
<b>CROPLAN</b> by Wi	nField											
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
<b>DuPont Pioneer</b>												
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	Deve	opment										
Claremore	1522			92	100				9.5	4.3	29.7	35.8
Kansas State Un	iversit	у										
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, Franc	е											
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 / DEK	ALB											
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

				Yield (% of				Plant	Fall	Plant		
Name		Yield (It	o/a)	test avg.)	Win	ter surv	ival (%)	height	stand	vigor <sup>1</sup>	Protein	Oil
	2014	2013	3-yr.	2014	2014	2013	3-yr.	(in.)	(0-10)	(1-5)	(%)	(%)
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 L	Jniversit	у										
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

<sup>&</sup>lt;sup>1</sup>Plant vigor rated on a scale of 1=poor to 5=excellent.

**Table 27. Northern Region Summary Table** 

		Number of		Number of			Number of		Number of
Name	Yield	observations	Oil	observations	Name	Yield	observations	Oil	observations
	(lb/a)		(%)			(lb/a)		(%)	
CROPLAN by Wir	ıField				Rubisco Seeds	s 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.				·	Hornet	2414	5	41.1	5
Argos	1446	2	41.1	2	Inspiration	1182	2	40.3	2
Garou	1781	1	37.1	1	Mercedes	2259	1	40.3	1
DuPont Pioneer				·	Safran	2779	10	41.4	10
46W94	2235	2	37.9	2	Sitro	2463	11	39.8	11
46W99	2291	2	35.1	2	Visby	2633	11	40.7	11
Exp 1301	1852	1	41.1	1	Syngenta				
Pioneer Exp1	1986	1	40.0	1	NK Petrol	1015	2	39.6	2
PX112	1560	2	42.2	2	NK Technic	1162	2	36.9	2
PX117	1479	2	41.9	2	Virginia State	University			
High Plains Crop	Develop	ment			Virginia	2257	9	37.2	9
Claremore	2690	8	40.2	8	VSX-3	2262	3	38.8	3
Kansas State Uni	versity				Mean'	2454	13	39.5	12
KSR07363	2446	2	36.5	2					
KSUR21	2004	1	38.6	1	Data averaged	over a 6-ye	ar period from 20	09-201	4.
Riley	2509	11	40.1	11	ŭ	•	•		
Sumner	2230	9	39.8	9	<sup>1</sup> Number of mea	an observat	tions, not average	value o	of observations
Wichita	2474	11	39.7	11	per entry.	0.000	oo,ot avorago	· raido	0. 0000. 140
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 / DEKA	LB								
DKW41-10	2120	7	37.5	6					
DKW44-10	2830	5	36.1	4					
	2298	2	36.0	2					
DKW45-25									
DKW45-25 DKW46-15	2392	7	40.6	6					

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

93

80

97

1.4

64

79

Lake Carl Blackwell, OK - 2012

Perkins, OK - 2013

DKW45-25

DKW46-15

DKW47-15

John Damicone and Tyler Pierson, Oklahoma State University

Name	Incidence <sup>1</sup>		Severity <sup>2</sup>		Name	Incid	Incidence		Severity	
	2012	2013	2012	2013		2012	2013	2012	2013	
CROPLAN by WinF	ield				Rubisco Seeds LL	С				
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	
					Hornet	77	93	1.5	1.9	
<b>DuPont Pioneer</b>					Inspiration		77		1.9	
					Mercedes	52	83	1.2	1.9	
46W94	88	87	2.3	2.4	Safran	49	67	1.3	1.4	
46W99	66	87	1.7	2.2	Sitro	64	97	1.1	2.2	
Pioneer Exp1		73		2.1	Visby	66	93	1.6	2.2	
Exp 1301		70		1.9						
PX 112		73		1.6	Syngenta					
PX 117		70		1.6						
					NK Petrol		97		2.6	
					NK Technic		93		2.3	
High Plains Crop Do	evelopmen	t			Windala Otata Hada					
Claremore	53	83	0.8	2.1	Virginia State Univ	ersity				
					Virginia	40	80	0.7	2.5	
Kansas State Unive	rsity				VSX-3	35	83	1.3	2.3	
KSR07363		70		1.7	CV	23	22	33	27	
KSUR21		80		1.4	LSD (0.05)	23	16	0.7	0.9	
Riley	65	83	1.0	2.3						
Sumner	42	77	0.6	1.9						
Wichita	72	80	1.4	2.1						
Wilding					1 Percentage of plan	ts with black	lea meası	red after	harvest.	
MOMONT / Photosy	ntech				· · · · · · · · · · · · · · · · · · ·					
,					<sup>2</sup> Internal stem deca	y from black	leg rated o	on a scale	from 0 to	
Chrome	54	47	1.2	1.1	5, where 0 = no dise					
Hekip		90		1.5	50% of the stem with	n decay, 3 =	75% of th	e stem wit	h decay,	
•				•	4 = 100% of the ster					
Monsanto / DEKALI	3				Bradley and Chesro	wn [2005] Fเ	ıngicide a			
					Reports. 60:FC105.	doi:10.1094/	FN60).			
DKW41-10	60	97	0.9	2.9						
DKW44-10	72	93	1.8	2.9						

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.

2.4

2.3

3.0

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.

Developer /			Release		Developer /				
marketer	Type <sup>1</sup>	Trait <sup>2</sup>	date	Maturity <sup>3</sup>	marketer	Type <sup>1</sup>	Trait <sup>2</sup>	Release date	Maturity <sup>3</sup>
CROPLAN by Wir	Field				MOMONT, Fran	20			
Paul Gregor (psgre		idolakes.com)			Thierry Momont		momont.com	)	
. aa. a. aga. (pag. (					Photosyntech	(	,	,	
HyCLASS 115W	OP	RR/SURT	2008	Е	Bob Amstrup (bo	b.amstrup	@photosyntec	h.com)	
HyCLASS 125W	OP	RR/SURT	2010	M					
HyCLASS 225W	OP	RR/SURT	2014	M	Chrome	Hyb		2010	М
					Hekip	Hyb		2014	Е
DL Seeds Inc.					CHH2311	Hyb			F
Kevin McCallum (k	kevin.mcc	allum@dlseed	ls.ca)		MH10G11	Hyb			F
					MH10L23	Hyb			М
Agros	Hyb			E					
Garou	Hyb			M	Monsanto / DEK				,
NPZ 4005	Hyb	RR		M	Jeffery Herrmanr	n (jettery.e.	.herrmann@m	onsanto.c	om)
Popular	Hyb			E	DIC Frontessor	1.1.1.			_
Raffiness	Hyb			М	DK Exstorm	Hyb			F
DuPont Pioneer					DK Imiron CL	Hyb	CL		F
			\		DK Sensei	Hyb	SD		М
Daniel Berning (da	ın.berning	g@pioneer.cor	11)		DKW41-10	OP OP	RR RR	2008 2009	E
46W94	Hyb	RR	2011	М	DKW44-10 DKW45-25	OP OP	RR/SURT	2009	M M
46W99	Hyb	RR	2011	M	DKW46-15	OP OP	RR/SURT	2013	M
Exp 1301	Hyb			M	DKW47-15	OP OP	RR/SURT	2008	M
Exp 1302	Hyb			M	DRVV47-13	OF	nn/30n1	2000	IVI
Pioneer Exp1	Hyb			M	Rubisco Seeds	LLC			
Pioneer Exp6	Hyb	SD		F	Claire Caldbeck		scoseeds com	)	
PX112	Hyb	SD		F	Glaire Galabeon	(IIIIO@IIIII)	30030003.00111	,	
PX117	Hyb	SD		F	Edimax CL	Hyb	CL	2012	М
	, -	_			Dimension	Hyb		2008	Е
High Plains Crop	Develop	ment			Hornet	Hyb		2008	М
Charlie Rife (charli					Inspiration	Hyb		2014	М
,		•			Mercedes	Hyb		2014	М
Claremore	OP	IMI	2011	F	Safran	Hyb		2008	M
					Sitro	Hyb		2007	Ε
Limagrain Cereal	Seeds L	LC			Visby	Hyb		2008	E
Brent Conrady (Br	ent.Conra	ady@limagrain	.com)						
					Syngenta				
Alabaster	Hyb			M	Bill Gilbert (bill.gi	lbert@syn	genta.com)		
Albatros	Hyb			F	NIZ Datas I	11.3.			
Artoga	Hyb			M	NK Petrol	Hyb			M
			_		NK Technic	Hyb			M
Kansas State Uni			ng Progra	m	SY Marten	Hyb			M
Michael J. Stamm	(mjstamn	n@ksu.eau)			SY Saveo	Hyb			M
VC4440	OD				Ctar Crasialty C				
KS4410	OP			M	Star Specialty S				
KS4506	OP			M	Jim Johnson (jim	j_star@no	tmaii.com)		
KS4549 KSD07363	OP OP	 DD	2012	F	Star 015W	OΒ	RR/SURT	2014	N.A
KSR07363	OP	RR	2013	E	Star 915W	OP	nn/oun1	2014	М
KSUR21	OP	SU		F	Vinai!- 01-7 !!	mlumu-le	A		. 01-1!
Riley	OP		2010	М	Virginia State U			xperimen	t Station
Sumner Wiebite	OP OB	SU	2003	E	Harbans Bhardw	aj (nbnard	wj@vsu.edu)		
Wichita	OP		1999	М	A florester !	0.0		0000	
					Virginia	OP		2003	M
100		facilities 2.3			VSX-3	OP OP			M
<sup>1</sup> OP = open pollina	ated, Hyb	= nybrid.			VSX-4	OP			М

<sup>&</sup>lt;sup>1</sup> OP = open pollinated, Hyb = hybrid. <sup>2</sup> SU & SURT = sulfonylurea carryover tolerant; CL = Clearfield (imidazolinone resistant); IMI = imidazolinone carryover tolerant; RR = Roundup Ready; SD = semidwarf.

<sup>&</sup>lt;sup>3</sup> E = Early; M = Medium; F = Full.

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