

Report of Progress 1134



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Contribution no. 18-144-S from the Kansas Agricultural Experiment Station

2016 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 43 cooperators in 18 states for the 2015–2016 growing season. The locations receiving seed are illustrated on the map on the front cover. See the back cover for a listing of participating cooperators. Of the 48 entries tested, 30 are commercially available and 18 are experimental. These entries were provided by 11 global seed suppliers. All entries in the trial were treated with insecticide and fungicide seed treatments to control insects and seedling diseases through the late fall and early winter months.

Open-pollinated and hybrid cultivars were planted in separate, side-by-side trials at sites where all 48 entries were planted. Results for each trial were analyzed separately and are presented in different tables. Differences between open-pollinated and hybrid yields can be observed, but direct comparisons between the two cultivar types cannot be made with the statistics provided.

Management guidelines were provided to cooperators, but previous growing experience influenced final management decisions. All trials were planted in small research plots (approximately 100 ft²) with three or four replications. Cultural practices, site descriptions, growing conditions, and

performance data are provided for each harvested location. Yield results for some locations include 2-year summaries. Results are presented alphabetically by seed supplier.

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

The NWCVT continues in the 2016–2017 growing season and includes 36 entries. Eight seed suppliers contributed to the trial, and it was distributed to 34 locations in 16 states.

2015–2016 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 longterm average high and low temperatures (°F) for the location. The upper thin line represents actual daily high temperatures, and the lower represents thin line actual daily temperatures. On the precipitation graph, the line labeled "normal" represents long-term average precipitation, and the line labeled "15-16" represents actual precipitation. If weather information was not provided, data were taken from a nearby town.

In general, temperatures during the 2015–2016 growing season were mild and moisture was above normal. Saturated soils were common in December and January in Kansas. A dry spring and late freezes at flowering reduced plant height and limited pod set at some locations. A cooler May provided ideal conditions for grain filling and resulted in high yields.

Test Sites and Results

Seventeen harvested locations in 14 states are included in this report: Shorter, AL; Fruita, CO; Vincennes, IN; Conway Springs, Hutchinson, and Kiowa, KS; Bozeman, MT; Scottsbluff, NE;

Clovis, NM; Chickasha and Goodwell, OK; Beresford, SD; Ashland City and Springfield, TN; Bushland, TX; Orange, VA, and Alburgh, VT. Walsh, CO, and Manhattan, KS, were harvested but the data was not published because of poor quality.

Twenty-four locations were not harvested because of numerous causes including inadequate stand establishment, poor vernalization, winterkill, too much rainfall at harvest, rabbit feeding, or hail damage.

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.

Overall, yields were outstanding because of the mild winter temperatures and adequate rainfall. Open pollinated trial averages ranged from 1,518 to 2,839 lb/acre. Hybrid trial averages ranged from 2,017 to 3,948 lb/acre. One trial site in Tennessee averaged 4,737 lb/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. Four trials 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. More than one year of data should be used to make an informed variety

selection decision. Canola weighs 50 lb/bushel, so a 2,000 lb/acre yield is 40 bushels/acre.

Table 29 provides information on the tolerance of varieties to the blackleg fungus. The 2015-2016 blackleg nursery was planted at by Perkins, OK, Oklahoma State University. Data provided with are permission. View Table 30 for seed sources, contact information, 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 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.

Shorter, Alabama

Dennis Delaney Auburn University

Planted: 11/17/2015 in 7-in. rows
Seeding Rate OP: 500,000 seeds/acre
Seeding Rate Hybrid: 300,000 seeds/acre
Harvested: 7/13/2016 and 7/17/2016

Herbicides: 1.5 pt/a Treflan

Insecticides: 7 oz/a Admire Pro and 5 oz/a Tundra

Irrigation: 1.3 inches in June 2016

Previous crop: N/A

Soil test: 40 lb/a P, 138 lb/a K, pH=6.5 Fertilizer: 30-30-30 lb N-P-K fertilizer in fall

120-0-0-18-1 lb N-P-K-S-B fertilizer in spring

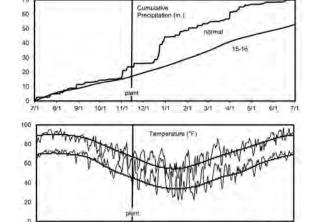
Soil type: Marvyn sandy loam

Elevation: 220 ft Latitude: 32° 24'N

Comments: Late planted with very heavy rainfall during the

winter months. Disease pressure was

significant.



1/1 2/1

9/1 10/1 11/1 12/1

Table 1. Results for the 2016 National Winter Canola Variety Trial at Shorter, AL

					Yield (% of				Plant	50%		Cercospora	
Name	Type ¹	Y	ield (lb/	a)	test avg.)	Winte	er surviv	al (%)	height	bloom	Maturity	Leaf Spot	Blackrot
		2016	2015	2-yr.	2016	2016	2015	2-yr.	(in.)	(DOY)	(DOY)	(1-10)	(1-10)
DL Seeds Inc.													
Einstein	Н	1271			123				51	90	153	1	2
Popular	Н	1478			144				54	92	151	2	1
DuPont Pioneer													
Exp1302	Н	454			44				59	109	158	1	3
PX112	Н	437			42				56	117	164	1	1
KWS MOMONT													
Hekip	Н	1095	1945	1520	106				54	87	153	1	3
Helix	Н	579			56				60	104	159	2	2
MH11J41	Н	790	1679	1234	77				59	96	158	2	1
MH12AC17	Н	1446			140				49	87	150	1	3
MH12AQ37	Н	1285			125				58	90	151	3	2
MH12AX37	Н	1159	1783	1471	113				59	90	154	1	2
MH12AY27	Н	630			61				60	107	159	1	2
Monsanto / DEKALB													
DK Imiron CL	Н	1035	2002	1519	101				60	101	157	1	2
DK Imistar CL	Н	1266	2052	1659	123				63	98	156	2	3
Rubisco Seeds LLC													
Edimax CL	Н	1072	2009	1540	104				63	102	159	1	4
Hornet	Н	1108	2289	1698	108				61	99	156	1	3
Inspiration	Н	1230			119				60	94	154	1	4
Mercedes	Н	1044			101				59	98	154	1	4
Virginia State University	sity												
Virginia	OP	1035			101				50	91	151	1	3
VSX-3	OP	1086			106				50	90	151	2	4
VSX-4	OP	1088			106				51	89	151	1	4
Mean		1029	1952						57	97	155	1	3
CV		16	14						3	2	1		41
LSD (0.05)		266	443						3	3	3		2

¹Type: H=hybrid, OP=open-pollinated

Orange, Virginia

Wade Thomason and Steve Gulick Virginia Tech University

Planted: 9/18/2015
Seeding Rate OP: 500,000 seeds/acre
Seeding Rate Hybrid: 300,000 seeds/acre
Harvested: 6/20/2016
Herbicides: 1 pt/a Treflan
Insecticides: None

Insecticides: None
Irrigation: None
Previous crop: N/A
Soil test: N/A

Fertilizer: 30-80-80-0 lb N-P-K-S fertilizer in fall

60-0-0-0 lb N-P-K-S fertilizer in spring

Soil type: Davidson silty clay

Elevation: 510 ft Latitude: 38° 13'N Comments: A late spring freeze reduced yields.

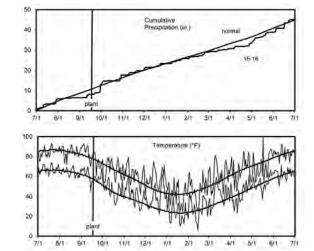


Table 2. Results for the 2016 National Winter Canola Variety Trial, open-pollinated cultivars, at Orange, VA

				Yield (% of				Plant		Test		
Name	Υ	ield (lb/	a) ¹	test avg.)	Winte	er surviv	al (%)	height	Moisture	weight	Protein	Oil
	2016	2015	2-yr.	2016	2016	2015	2-yr.	(in.)	(%)	(lb/bu)	(%)	(%)
CROPLAN by WinFie	ld							. ,	` '	, ,	` '	
HyCLASS115W	2234	2425	2329	98				53	8.9	46.4	27.9	38.6
HyCLASS125W	2055	2322	2189	91				52	8.9	46.7	28.2	37.7
HyCLASS220W	2390	2208	2299	105				52	8.6	46.6	27.5	38.6
HyCLASS225W	2131	1949	2040	94				53	8.9	47.0	27.3	39.3
High Plains Crop Dev	elopme	nt										
Claremore	2746	2277	2511	121				52	8.6	48.1	27.5	38.6
Kansas State Univers	ity											
KS4506	2519			111				53	9.1	47.5	27.2	38.7
KSR07363	2072			91				53	8.5	46.7	27.7	38.3
KSUR1211	2218			98				53	8.7	48.3	27.5	38.7
Riley	2167	2561	2364	95				53	8.5	47.7	27.2	38.9
Sumner	2298	2361	2330	101				54	8.3	48.8	28.4	39.1
Wichita	2420	2460	2440	107				53	8.4	48.2	27.9	38.2
KWS MOMONT												
Kadore	2209			97				53	9.1	48.4	27.3	35.9
Quartz	3142			138				53	9.2	47.1	26.2	39.5
Monsanto / DEKALB												
DKW45-25	2567	2216	2392	113				53	9.2	47.2	26.9	38.0
DKW41-10	1248	2195	1721	55				45	8.7	44.2	30.0	35.7
DKW44-10	1857	2141	1999	82				45	8.9	46.9	27.3	37.8
DKW46-15	1958	2295	2127	86				53	8.5	45.9	26.0	40.7
DKW47-15	2349	1968	2159	103				53	9.2	46.1	27.6	38.5
Star Specialty Seed												
Star 915W	1773	2563	2168	78				53	8.4	45.8	28.2	38.4
University of Idaho												
15.UI.WC.05633	2376			105				53	9.6	45.1	27.6	37.9
15.UI.WC.1	2606			115				53	10.9	47.5	27.6	38.3
Virginia State Univers												
Virginia	2384	2165	2275	105				53	8.6	47.3	27.6	37.9
VSX-3	2487	2086	2287	110				53	8.9	46.5	27.1	38.4
VSX-4	2292	2576	2434	101				54	9.0	47.5	27.7	37.3
Mean	2271							52	8.9	47.0	27.6	38.3
CV	19							2	3.9	2.3	2.5	1.9
LSD (0.05)	709							1	0.6	1.8	1.4	1.5

¹Yields adjusted to 9% moisture.

Table 3. Results for the 2016 National Winter Canola Variety Trial, hybrid cultivars, at Orange, VA

Table 5. Results for th				Yield (% of	,	•	,	Plant	,	Test		
Name	Υ	ield (lb/a	a) ¹	test avg.)	Winte	er surviv	al (%)	height	Moisture	weight	Protein	Oil
	2016	2015	2-yr.	2016	2016	2015	2-yr.	(in.)	(%)	(lb/bu)	(%)	(%)
DL Seeds Inc.							_					
DL14001RR	2272	2542	2407	72				53	9.7	46.8	26.3	38.2
Einstein	3529	3073	3301	112				50	11.2	46.3	23.9	41.6
Popular	3133	2888	3010	99				53	9.3	47.0	24.1	43.2
Reflex CL	2912			92				53	10.7	42.2	24.4	40.4
Thure	2975			94				53	10.0	45.7	24.5	38.9
WRH458	2696			86				53	9.1	44.5	25.3	41.3
DuPont Pioneer												
46W94	2223	2208	2216	71				53	10.0	44.3	25.0	39.5
Exp1302	3017	2603	2810	96				54	10.5	44.8	25.2	42.6
PX112	3112	2466	2789	99				50	10.9	46.3	25.4	39.8
KWS MOMONT												
Hekip	3255	2563	2909	103				53	8.9	45.8	24.9	39.7
Helix	2902			92				52	10.8	44.4	24.8	40.3
MH11J41	2527	2391	2459	80				53	8.9	44.8	24.0	41.6
MH12AC17	3107			99				54	10.7	41.4	24.8	42.7
MH12AQ37	2929			93				53	10.0	45.3	24.7	41.0
MH12AX37	2969	2114	2541	94				52	10.9	44.4	25.4	39.7
MH12AY27	3554			113				53	9.9	46.3	24.4	40.2
Monsanto / DEKALB												<u> </u>
DK Imiron CL	3654	2623	3139	116				54	8.4	46.7	26.0	39.6
DK Imistar CL	3416	2831	3124	108				52	8.6	48.5	26.7	39.2
DK Sensei	3920	2576	3248	124				52	8.7	46.7	26.3	39.1
DK Severnyi	3762	2635	3198	119				53	8.7	47.9	24.8	39.7
Rubisco Seeds LLC												<u> </u>
Edimax CL	3711	2734	3223	118				53	9.4	45.8	24.8	39.2
Hornet	2954	2223	2588	94				54	8.9	46.6	24.6	41.0
Inspiration	3855	2699	3277	122				53	8.6	47.3	24.6	41.1
Mercedes	3189	2817	3003	101				54	9.8	45.5	23.9	42.2
Mean	3149	2494						53	9.7	45.6	25.0	40.5
CV	10	12						2	7.5	3.1	2.0	1.9
LSD (0.05)	508	496						1	1.2	2.4	1.1	1.6

¹Yields adjusted to 9% moisture.

Vincennes, Indiana

Chuck Mansfield Vincennes University

Planted: 9/15/2015 Seeding Rate OP: 500,000 seeds/acre Seeding Rate Hybrid: 300,000 seeds/acre

Desiccant: 2 pt/acre Reglone on 6/10/2016

Harvested: 6/20/2016

Herbicides: Dual 12 oz/a, Command 4 oz/a

Insecticides: Mavrik 2.75 oz/a

Fungicides: Proline 5 oz/a, Quadris 8 oz/a

Irrigation: 1 inch in fall Previous crop: Soybean

Soil test: 73-252 lb/a P-K, pH=6.1

Fertilizer: 76-0-0-24-1 lb N-P-K-S-B in early March

80-0-61-0-0 lb N-P-K-S-B in late March

Soil type: Lomax loam

Elevation: 430 ft Latitude: 38° 44'N Comments: Very high and consistent yields

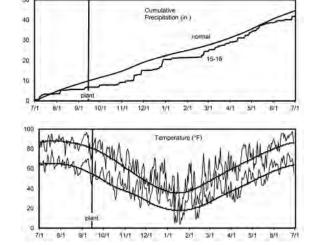


Table 4. Results for the 2016 National Winter Canola Variety Trial, open-pollinated cultivars, at Vincennes, IN

Tubio 41 Hodato for the				Yield (% of	<u> </u>	-		Plant	50%	Test		
Name	Υ	ield (lb/a	a)	test avg.)	Winte	er surviv	/al (%)	height	Bloom	weight	Protein	Oil
	2016	2015	2-yr.	2016	2016	2015	2-yr.	(in.)	(DOY)	(lb/bu)	(%)	(%)
CROPLAN by WinFie	ld											
HyCLASS 115W	2404	2884	2644	93	100	100	100	50	94	51	23.7	42.0
HyCLASS 125W	2241	2835	2538	87	100	100	100	51	94	51	26.1	39.4
HyCLASS 220W	2749	2790	2769	107	100	100	100	51	96	51	29.2	40.7
HyCLASS 225W	2835	2865	2850	110	100	100	100	52	95	51	28.3	41.2
High Plains Crop Dev	/elopmei	nt										
Claremore	2906	3299	3103	113	100	100	100	54	104	51	29.4	39.4
Kansas State Univers	sity											
KS4506	2703	3150	2927	105	100	99	100	54	96	51	28.8	39.1
KSR07363	2344	3073	2709	91	100	100	100	51	94	51	26.9	39.3
KSUR1211	2609			101	100			54	99	51	24.7	39.0
Riley	2779	3248	3014	108	100	99	100	54	96	51	30.8	39.8
Sumner	2698	2839	2768	105	100	98	99	51	94	51	27.1	39.2
Wichita	2897	3245	3071	113	100	100	100	52	96	51	30.0	39.1
KWS MOMONT												
Kadore	2985			116	100			49	102	51	24.2	38.8
Quartz	3516			137	100			50	96	50	29.7	41.5
Monsanto / DEKALB												
DKW41-10	2141	2548	2344	83	100	100	100	43	90	53	29.6	37.7
DKW44-10	2201	2407	2304	86	100	100	100	49	96	51	27.0	38.6
DKW45-25	2452	2720	2586	95	100	100	100	50	95	51	26.9	38.7
DKW46-15	2200	2835	2518	86	100	100	100	52	95	50	27.3	39.4
DKW47-15	2342	3031	2687	91	100	100	100	53	96	51	29.0	38.3
Star Specialty Seed												
Star 915W	2741	3153	2947	107	100	99	100	53	94	51	25.9	40.0
University of Idaho												
15.UI.WC.05633	2111			82	100			52	100	51	24.1	37.2
15.UI.WC.1	2746			107	100			53	98	51	25.9	38.5
Virginia State Univers	-											
Virginia	2369	2993	2681	92	100	100	100	52	95	51	31.1	37.3
VSX-3	2407	3086	2747	94	97	99	98	52	94	51	29.0	40.6
VSX-4	2353	3203	2778	91	100	100	100	50	94	51	33.3	39.5
Mean	2572	3283			100			51	96	51	27.8	39.4
CV	10	6						4	1	1	7.9	2.6
LSD (0.05)	402	307						3	2	1	4.6	2.1

Table 5. Results for the 2016 National Winter Canola Variety Trial, hybrid cultivars, at Vincennes, IN

				Yield (% of				Plant	50%	Test		
Name	Υ	ield (lb/a	a)	test avg.)	Winte	er surviv	al (%)	height	bloom	weight	Protein	Oil
	2016	2015	2-yr.	2016	2016	2015	2-yr.	(in.)	(DOY)	(lb/bu)	(%)	(%)
DL Seeds Inc.												
DL14001RR	2151	2913	2532	66	100	100	100	57	97	51.3	28.4	37.4
Einstein	3651	3603	3627	113	100	100	100	54	93	50.9	22.8	42.2
Popular	3182	3709	3446	98	100	100	100	52	92	51.3	24.8	41.8
Reflex CL	3418			106	100			54	94	50.6	23.5	42.5
Thure	3403			105	100			54	96	52.0	27.9	37.6
WRH458	3165			98	100			55	93	51.3	27.6	42.3
DuPont Pioneer												
46W94	2905	3396	3150	90	100	100	100	56	92	51.0	21.9	41.2
Exp 1302	3158	3585	3372	98	100	100	100	55	97	50.5	24.2	42.7
PX112	3013	3271	3142	93	100	100	100	52	101	51.2	26.4	40.4
KWS MOMONT												
Hekip	3398	3573	3485	105	100	99	100	53	93	50.9	25.8	39.9
Helix	3154			97	100			56	99	51.4	25.8	41.2
MH11J41	3412	3579	3496	105	100	100	100	53	95	49.5	21.8	40.8
MH12AC17	3364			104	100			54	93	49.9	19.7	43.9
MH12AQ37	3051			94	100			53	93	50.8	28.3	41.2
MH12AX37	2892	3227	3060	89	100	98	99	55	96	50.4	25.0	39.1
MH12AY27	3451			107	100			58	102	51.4	23.7	39.7
Monsanto / DeKalb												
DK Imiron CL	3293	3460	3377	102	100	100	100	50	97	51.0	31.6	38.8
DK Imistar CL	3262	3454	3358	101	100	100	100	55	97	51.4	28.8	40.1
DK Sensei	3158	3519	3339	98	100	100	100	53	96	51.0	28.1	39.2
DK Severnyi	3064	3620	3342	95	100	100	100	48	97	50.7	26.2	39.6
Rubisco Seeds LLC												
Edimax CL	3582	3392	3487	111	100	100	100	55	96	51.2	27.2	40.5
Hornet	3484	3613	3549	108	100	100	100	54	95	50.9	26.6	39.8
Inspiration	3544	3586	3565	109	100	100	100	57	94	50.6	25.3	39.8
Mercedes	3543	3696	3619	109	100	100	100	54	95	51.1	21.2	42.6
Mean	3237	3283						54	96	50.9	25.5	40.6
CV	6	6						2	1	8.0	14.1	2.0
LSD (0.05)	308	307						2	1	0.6		1.7

Ashland City, Tennessee

Jason de Koff

Tennessee State University

Planted: 9/28/2015
Seeding Rate: 2.8 lb/acre
Harvested: 6/7/2016
Herbicides: Trifluralin
Insecticides: None
Irrigation: None
Previous crop: Fallow

Soil test: 221-77 lb P-K, pH=5.6

Fertilizer: 54-0-33-22 lb N-P-K-S fertilizer in fall

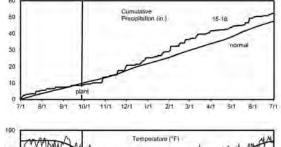
54-0-0-0 lb N-P-K-S fertilizer in spring

Soil type: Lindell silt loam

Elevation: 399 ft

Comments: Some high yields observed but there was

variability in the trial.



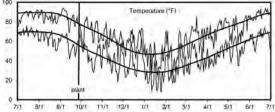


Table 6. Results for the 2016 National Winter Canola Variety Trial, open-pollinated cultivars, at Nashville, TN

				Yield (% of					
Name		Yield (lb/a)	1	test avg.)	Wii	nter surviva	I (%)	Protein	Oil
	2016	2015	2-yr.	2016	2016	2015	2-yr.	(%)	(%)
High Plains Crop Dev	/elopment								
Claremore	3666			140				25.0	39.4
Kansas State Univers	sity								
KS4506	2695			103				24.4	38.8
KSUR1211	3096			119				25.1	37.7
Riley	2057			79				24.9	39.9
Sumner	2693			103				25.5	39.0
Wichita	2292			88				25.3	38.6
KWS MOMONT									
Kadore	3719			142				23.7	37.0
Quartz	4128			158				22.5	41.0
University of Idaho									
15.UI.WC.1	2100			80				24.7	36.6
15.UI.WC.05633	1450			56				25.8	35.9
Virginia State Univers	sity								
Virginia	1677			64				25.2	37.5
VSX-3	2818			108				24.9	37.4
VSX-4	1549			59				24.5	39.1
Mean	2611							24.7	38.3
CV	30							1.9	2.2
LSD (0.05)	1317							1.0	1.9

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

Table 7. Results for the 2016 National Winter Canola Variety Trial, hybrid cultivars, at Nashville, TN

				Yield (% of					
Name		Yield (lb/a)	1	test avg.)	Wii	nter surviva	l (%)	Protein	Oil
	2016	2015	2-yr.	2016	2016	2015	2-yr.	(%)	(%)
DL Seeds Inc.									
Einstein	3060			119				21.9	40.4
Popular	2428			95				22.8	40.7
Reflex CL	1667			65				22.3	40.5
Thure	2576			100				22.0	40.4
WRH458	2469			96				23.8	38.6
DuPont Pioneer									
Exp1302	3751			146				23.4	39.8
PX112	1505			59				23.3	39.0
KWS MOMONT									
Hekip	3496			136				22.4	38.9
Helix	881			34				23.1	39.6
MH11J41	2403			94				22.3	40.7
MH12AC17	2459			96				21.0	43.4
MH12AQ37	2384			93				22.6	40.4
MH12AX37	2737			107				23.4	39.2
MH12AY27	1495			58				22.9	39.8
Monsanto / DEKALB									
DK Imiron CL	1915			75				23.4	38.2
DK Imistar CL	3135			122				24.5	38.0
DK Sensei	3452			135				22.7	40.6
DK Severnyi	2948			115				22.8	38.9
Rubisco Seeds LLC									
Edimax CL	2960			115				22.1	40.9
Hornet	3408			133				22.6	40.5
Inspiration	2788			109				22.0	40.2
Mercedes	1937			76				22.5	39.8
Mean	2566							22.7	39.9
CV	34							2.9	2.8
LSD (0.05)	NS							1.4	NS

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

Springfield, Tennessee

Dennis West University of Tennessee

9/16/2015 6 lb/acre 6/13/2016 Planted: Seeding Rate: Harvested: Herbicides: N/A Insecticides: N/A Previous crop: Soybean

P=high, K=medium, pH=6.1 30-0-0-0 lb N-P-K-S fertilizer in fall Soil test: Fertilizer:

120-0-0-0 lb N-P-K-S fertilizer in spring

Dickson silt loam

Soil type: Elevation: 706 ft Latitude: 36° 32'N

Comments: Oustanding yields and high oil

contents.

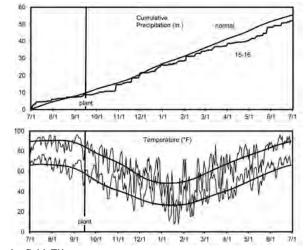


Table 8. Results for the 2016 National Winter Canola Variety Trial at Springfield, TN

Tubio di Rodano 10					Yield (% of				Test		
Name	Type ¹		Yield (lb/a)	test avg.)	Win	ter surviva	ıl (%)	weight	Protein	Oil
		2016	2015	2-yr.	2016	2016	2015	2-yr.	(lb/bu)	(%)	(%)
DL Seeds Inc											
DL14001RR	Н	3791			80				49.5	23.9	42.4
Einstein	Н	5070			107				48.9	20.8	44.6
Popular	Н	4974			105				49.8	22.1	45.2
Reflex CL	Н	4860			103				49.2	21.8	43.6
Thure	Н	4748			100				49.9	21.4	43.6
WRH458	Н	4525			96				49.7	21.9	44.9
Kansas State Unive	rsity										
KS4506	OP	4710			99				49.5	23.6	43.4
KSR07363	OP	4538			96				50.3	23.6	42.7
KSUR1211	OP	4812			102				49.8	24.2	42.2
Riley	OP	3974			84				49.7	23.7	43.6
Sumner	OP	3738			79				49.9	23.4	43.9
Wichita	OP	3517			74				49.5	23.2	44.3
KWS MOMONT											
Hekip	Н	5234			110				48.9	20.7	45.3
Helix	Н	4463			94				52.0	22.9	44.1
Kadore	Н	5232			110				50.1	22.4	42.1
MH11J41	Н	4825			102				47.6	21.3	45.1
MH12AC17	Н	4783			101				48.4	21.8	46.3
MH12AQ37	Н	5347			113				49.7	21.2	45.1
MH12AX37	Н	4056			86				48.5	22.1	44.6
MH12AY27	Н	5709			121				49.2	21.5	44.9
Quartz	OP	5401			114				49.3	20.5	45.8
Rubisco Seeds LLC	;										
Edimax CL	Н	5048			107				49.8	21.7	43.6
Hornet	Н	5303			112				49.9	21.3	44.7
Inspiration	Н	5141			109				49.9	21.0	45.7
Mercedes	OP	5571			118				49.3	21.1	44.8
Virginia State Unive	rsity										
Virginia	OP	4145			88				49.8	23.2	43.4
VSX-3	OP	4240			90				49.7	23.7	42.3
VSX-4	OP	4869			103				50.2	24.8	41.7
Mean		4737							49.5	22.3	44.1
CV		10							0.7	3.2	1.9
LSD (0.05)		799							0.7	1.4	1.8

¹Type: H=hybrid, OP=open-pollinated

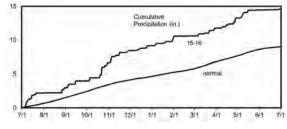
Fruita, Colorado

Calvin Pearson Colorado State University

Soil type: Youngston clay loam

Elevation: 4604 ft Latitude: 39° 11'N
Comments: Yields were better than the previous

year.



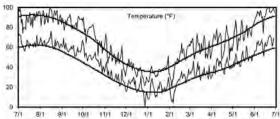


Table 9. Results for the 2016 National Winter Canola Variety Trial, open-pollinated cultivars, at Fruita, CO

Table 9. Results for				Yield (% of				Fall	•	Test		
Name	Υ	ield (lb/	a)	test avg.)	Winte	r surviv	al (%)	vigor ¹	50% bloom	weight	Protein	Oil
	2016	2015	2-yr.	2016	2016	2015	2-yr.	(1-5)	(DOY)	(lb/bu)	(%)	(%)
CROPLAN by WinFi	eld											
HyCLASS115W	2323	1441	1882	103				4.7	109	49.7	21.1	42.3
HyCLASS125W	2273	1380	1826	100				5.0	109	50.8	21.3	40.9
HyCLASS220W	2273	992	1632	100				4.3	108	49.4	20.4	42.1
HyCLASS225W	2563	1768	2166	113				5.0	109	49.4	20.9	40.2
High Plains Crop De	evelopme	nt										
Claremore	2109	1337	1723	93				5.0	111	50.7	23.6	39.7
Kansas State Unive	rsity											
KS4506	2298	1518	1908	102				5.0	109	49.7	20.2	42.0
KSR07363	2437	992	1714	108				5.0	106	51.0	21.4	41.0
KSUR1211	2412			107				5.0	108	51.2	21.3	41.0
Riley	2273	2348	2310	100				4.3	105	50.2	21.1	41.8
Sumner	2071	1490	1780	91				4.7	105	50.6	22.2	39.9
Wichita	2159	1462	1810	95				4.7	106	50.8	21.3	41.0
KWS MOMONT												
Kadore	2424			107				4.7	111	49.8	21.1	39.7
Quartz	2740			121				4.7	110	49.2	20.2	41.5
Monsanto/DEKALB												
DKW41-10	2008	1330	1669	89				5.0	104	51.9	22.4	37.7
DKW44-10	2197	1379	1788	97				5.0	109	50.9	21.7	39.1
DKW45-25	2538	1302	1920	112				4.7	108	51.3	21.7	38.6
DKW46-15	2210	1598	1904	98				4.3	109	49.8	22.1	39.7
DKW47-15	2348	1084	1716	104				5.0	109	50.3	21.6	40.4
Star Speciality Seed	ls											
Star 915W	2374	1698	2036	105				4.7	109	48.8	21.5	41.2
University of Idaho												
15.UI.WC.05633	1793			79				5.0	109	49.5	21.8	40.1
15.UI.WC.1	2197			97				4.7	110	46.4	20.4	40.3
Virginia State Unive	ersity											
Virginia	2033	1323	1678	90				5.0	109	49.4	21.1	41.4
VSX-3	2146	1239	1693	95				5.0	108	49.1	21.4	40.5
VSX-4	2121	1510	1815	94				5.0	108	50.5	20.5	41.9
Mean	2263	1683						4.8	108	50.0	21.4	40.6
CV	7	25						8.1	1	2.9	3.5	3.5
LSD (0.05)	254	694						NS	1	2.3	1.6	NS

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

Table 10. Results for the 2016 National Winter Canola Variety Trial, hybrid cultivars, at Fruita, CO

				Yield (% of				Fall		Test		
Name	Υ	ield (lb/a	a)	test avg.)	Winte	r surviv	al (%)	vigor ¹	50% bloom	weight	Protein	Oil
	2016	2015	2-yr.	2016	2016	2015	2-yr.	(1-5)	(DOY)	(lb/bu)	(%)	(%)
DL Seeds Inc.												
Einstein	2891	1929	2410	107				4.7	108	50.7	19.2	42.6
DL14001RR	2374	2054	2214	88				5.0	109	50.7	20.8	41.2
Popular	2752	2182	2467	102				4.7	105	51.2	19.9	43.0
Reflex CL	2538			94				5.0	108	50.3	18.6	44.6
Thure	2639			98				4.7	110	50.6	19.7	40.8
WRH458	2816			104				4.3	104	51.0	19.3	43.7
DuPont Pioneer												
46W94	2550	2018	2284	95				5.0	107	49.8	18.8	43.4
PX112	2563	602	1583	95				4.7	111	50.7	20.9	42.5
Exp1302	2386	616	1501	89				5.0	110	50.8	19.4	44.5
KWS MOMONT												
Hekip	2853	2675	2764	106				5.0	106	51.1	19.8	41.6
Helix	2563			95				4.7	110	50.2	19.5	44.4
MH11J41	2664	1808	2236	99				5.0	105	49.4	18.5	45.3
MH12AC17	2563			95				5.0	108	49.2	18.9	44.7
MH12AQ37	2614			97				4.7	108	50.5	19.1	43.6
MH12AX37	2361	1889	215	88				5.0	111	49.0	19.3	44.4
MH12AY27	2740			102				5.0	111	49.8	19.0	45.0
Monsanto / DEKALB												
DK Imiron CL	2740	2147	2443	102				4.7	111	49.9	21.1	39.7
DK Imistar CL	2816	1958	2387	104				5.0	110	50.7	20.1	42.1
DK Sensei	2904	1785	2345	108				5.0	111	48.9	20.5	41.7
DK Severnyi	2803	1735	2269	104				4.7	110	50.4	19.6	41.8
Rubisco Seeds LLC												
Edimax CL	2992	2295	2644	111				4.7	110	50.8	19.2	42.1
Hornet	2866	1441	2154	106				4.3	109	50.7	20.2	41.7
Inspiration	2992	1717	2355	111				5.0	106	49.7	18.6	44.1
Mercedes	2715	1997	2356	101				4.7	108	50.0	18.9	44.5
Mean	2696	1683						4.8	109	50.2	19.5	43.0
CV	9	25						7.9	1	2.0	4.1	3.0
LSD (0.05)	NS	694						NS	1	NS	NS	2.7

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

Conway Springs, Kansas

Paul Lange

Planted: 9/25/2015 Seeding rate: 4 lb/acre Swathed: 5/30/2016 Harvested: 6/8/2016

Herbicides: Gramoxone SL 2.0, Paraquat Insecticides: 6 fl oz/a Sniper on 9/30/2015 Fertilizer: 72-0-0-8 lb N-P-K-S fertizer in spring

Soil type: Kirkland silt loam

Elevation: 1371 ft Latitude: 37° 23'N Comments: A late spring freeze reduced yields.

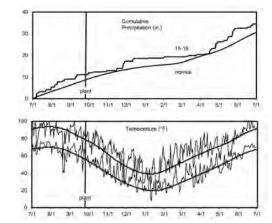


Table 11. Results for the 2016 National Winter Canola Variety Trial at Conway Springs, KS

					Yield (% of				Fall			
Name	Type ¹	Υ	ield (lb/a	a)	test avg.)	Winte	r surviv	al (%)	stand	Test weight	Protein	Oil
		2016	2015	2-yr.	2016	2016	2015	2-yr.	(0-10)	(lb/bu)	(%)	(%)
CROPLAN by WinFie	ld											
HyCLASS115W	OP	1894			100				9.0	48.8	22.0	41.3
HyCLASS125W	OP	1896			100				9.5	50.3	22.8	40.8
HyCLASS220W	OP	1816			96				9.0	50.0	22.5	41.5
HyCLASS225W	OP	2164			114				8.5	50.5	22.9	41.2
DL Seeds Inc.												
Einstein	Н	1924			101				9.0	48.8	24.2	40.1
Popular	Н	2185			115				9.5	48.6	23.0	41.4
Reflex CL	Н	2384			126				9.0	47.8	21.0	43.1
Thure	Н	2119			112				9.0	50.5	24.5	39.1
DuPont Pioneer												
46W94	Н	2162			114				9.0	49.6	23.1	39.2
High Plains Crop Dev	/elopmer	nt										
Claremore	OP	1863			98				8.5	50.2	23.0	39.5
Kansas State Univers	sity											
KS4506	OP	2117			112				8.5	49.4	22.8	41.2
KSR07363	OP	1810			95				9.0	49.3	22.5	41.9
KSUR1211	OP	1770			93				9.0	50.2	23.4	41.8
Riley	OP	1838			97				8.0	50.2	23.1	40.5
Sumner	OP	2012			106				9.0	51.2	22.5	41.3
Wichita	OP	1809			95				7.5	49.8	23.4	39.0
KWS MOMONT												
Hekip	Н	2108			111				9.5	46.6	23.4	41.2
Helix	Н	1495			79				8.5	45.8	21.0	41.3
Kadore	OP	1878			99				9.0	48.2	22.2	41.1
Quartz	OP	2197			116				8.5	49.3	20.6	42.6
Monsanto / DEKALB												
DKW41-10	OP	1309			69				9.5	51.4	21.3	42.2
DKW44-10	OP	1986			105				9.0	47.9	20.0	42.8
DKW45-25	OP	1939			102				9.0	50.5	22.4	40.7
DKW46-15	OP	2016			106				9.0	50.5	21.3	41.9
DKW47-15	OP	1446			76				8.5	50.2	22.1	40.3
Rubisco Seeds LLC												
Edimax CL	Н	1922			101				8.5	47.6	23.8	41.0
Hornet	H	1655			87				9.0	46.4	21.4	41.6
Inspiration	Н	1502			79				9.0	46.0	23.1	40.7
Mercedes	H	2330			123				8.5	49.8	22.9	36.5
Star Specialty Seed					-							
Star 915W	OP	1389			73				8.5	46.7	21.7	40.2
Mean		1898							8.8	49.0	22.5	40.9
CV		11							4.5	2.5	4.1	3.6
LSD (0.05)		425							0.8	2.5	1.9	NS

¹Type: OP=open-pollinated, H=hybrid

Hutchinson, Kansas

Gary Cramer

Kansas State University

Planted: 9/23/2015 Seeding Rate OP: 500,000 seeds/acre Seeding Rate Hybrid: 300,000 seeds/acre

Swathed: 6/3/2016 Harvested: 6/10/2016

Herbicides: 1.5 pt/a Treflan, 10 oz/a Assure II

Insecticides: None Previous crop: Wheat

Soil test: 8-57-330 ppm N-P-K, pH=5.7 Fertilizer: 75-0-0-0 lb N-P-K-S fertilizer in fall

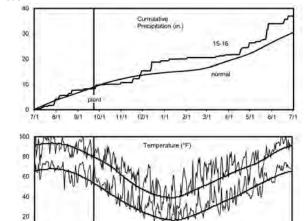
75-0-0-0 lb N-P-K-S fertilizer in spring

Soil type: Funmar-Taver loam

Elevation: 1630 ft Latitude: 37° 56'N

Comments: Excellent yields following a mild

winter and favorable spring.



10/1

Table 12. Results for the 2016 National Winter Canola Variety Trial, open-pollinated cultivars, at Hutchinson, KS

Tubic 12. Results to				Yield (% of		•		Plant	50%	Test		
Name	1	rield (lb	/a)	test avg.)	Winte	er surviv	/al (%)	height	bloom	weight	Protein	Oil
	2016	2013	2-yr.	2016	2016	2014	2-yr.	(in.)	(DOY)	(lb/bu)	(%)	(%)
CROPLAN by WinF	ield											
HyCLASS115W	1996	1889	1942	89		26		40.0	90.3	48.6	26.7	34.2
HyCLASS125W	2564	1723	2143	115		26		42.0	91.3	48.5	26.7	36.4
HyCLASS220W	2438			109				44.0	91.3	48.3	27.4	36.7
HyCLASS225W	2497			112		46		42.0	92.0	47.8	25.9	36.9
High Plains Crop Do	evelopme	ent										
Claremore	1538	1850	1694	69		50		40.7	94.3	49.3	27.6	35.3
University of Idaho												
15.UI.WC.05633	2034			91				43.3	93.0	46.2	26.8	37.1
15.UI.WC.1	2317			104				38.7	92.3	47.0	25.7	36.4
Kansas State Unive	rsity											
KS4506	2600			116		60		42.7	93.3	47.8	27.4	36.8
KSR07363	2193	1885	2039	98		50		38.7	92.0	49.8	29.1	34.6
KSUR1211	2724			122				42.0	92.3	49.3	26.9	34.8
Riley	2578	2035	2306	115		64		46.0	92.3	48.7	25.1	35.8
Sumner	1928	1677	1803	86		34		37.3	90.3	46.5	26.0	37.9
Wichita	1802	1784	1793	81		30		38.0	93.3	50.2	26.7	37.1
KWS MOMONT												
Kadore	2222			99				37.3	93.0	47.1	26.8	35.2
Quartz	2334			104				40.0	93.0	46.8	26.0	37.2
Monsanto / DEKALI	В											
DKW41-10	2256	1462	1859	101		34		35.3	89.7	50.8	25.2	36.8
DKW44-10	2501	1877	2189	112		74		39.3	94.3	47.4	27.5	35.3
DKW45-25	2774			124		66		42.0	91.3	49.3	26.2	37.1
DKW46-15	1823	1653	1738	82		64		39.3	93.0	48.6	25.7	38.2
DKW47-15	2171	1756	1964	97		34		42.0	93.0	49.6	26.7	32.8
Star Specialty Seed												
Star 915W	2000			90		36		42.0	91.7	48.1	24.2	36.5
Virginia State Unive	ersity											
Virginia	1905	2593	2249	85		36		40.7	92.0	48.0	26.8	35.1
VSX-3	2314	2183	2248	104		54		40.0	91.0	43.4	26.5	35.9
VSX-4	2127			95		26		39.3	91.3	47.6	25.5	35.9
Mean	2235	2118	2176			36		40.5	92.2	48.1	26.5	36.1
CV	20	14				14		7.1	0.9	3.9	2.8	3.5
LSD (0.05)	NS	482				16		4.7	1.4	3.1	1.5	NS

Table 13. Results for the 2016 National Winter Canola Variety Trial, hybrid cultivars, at Hutchinson, KS

				Yield (% of				Plant	50%	Test		
Name	١	rield (lb.	/a)	test avg.)	Winte	er surviv	/al (%)	height	bloom	weight	Protein	Oil
	2016	2013	2-yr.	2016	2016	2014	2-yr.	(in.)	(DOY)	(lb/bu)	(%)	(%)
DL Seeds Inc.			_									
DL14001RR	1936			79				43.3	92.3	46.8	25.3	36.4
Einstein	3045			124				44.0	94.0	48.2	24.6	36.8
Popular	2173			89		36		38.7	91.7	49.2	25.4	38.6
Reflex CL	2437			100				42.7	91.3	48.4	26.3	37.1
Thure	2306			94				42.0	92.7	48.8	25.8	35.5
WRH458	2302			94				38.7	91.3	50.6	26.5	35.8
DuPont Pioneer												
46W94	2763	2201	2482	113		0		44.7	91.3	49.0	25.7	35.8
Exp1302	2538			104		0		41.3	93.7	49.4	24.6	38.5
PX112	2540	3260	2900	104		66		44.0	93.7	47.6	25.3	34.9
KWS MOMONT												
Hekip	2630	2653	2641	107		24		44.0	90.7	48.7	24.6	36.4
Helix	2064			84				43.3	94.0	44.3	25.0	37.2
MH11J41	1913			78				38.0	91.7	48.5	24.0	34.4
MH12AC17	2581			105				43.3	92.3	46.4	27.0	34.3
MH12AQ37	2957			121				45.3	91.7	49.5	24.7	37.3
MH12AX37	2341			96				44.7	93.3	47.2	23.9	37.6
MH12AY27	2380			97				42.7	93.7	47.0	24.8	35.0
Monsanto / DEKALB												
DK Imiron CL	2424			99		66		40.0	93.7	47.7	25.0	38.0
DK Imistar CL	2424			99				42.7	93.7	49.1	24.4	36.2
DK Sensei	2272			93		46		42.0	93.3	47.9	26.0	35.3
DK Severnyi	2450			100				38.7	94.3	47.1	24.2	36.8
Rubisco Seeds LLC												
Edimax CL	2552	1882	2217	104		26		43.3	93.3	48.1	24.1	37.7
Hornet	2229	2125	2177	91		24		43.3	91.3	47.2	25.0	36.4
Inspiration	2499	2085	2292	102		0		45.3	91.0	47.5	26.1	34.9
Mercedes	3024	2381	2702	123		30		43.3	92.7	48.8	24.9	35.9
Mean	2449	2118	2284			36		42.5	92.6	48.0	25.1	36.4
CV	18	14				14		5.6	1.0	3.0	3.1	3.5
LSD (0.05)	NS	482				16		3.9	1.5	2.4	1.6	NS

Kiowa, Kansas

Bob Schrock

Planted: 9/25/2015

Seeding Rate OP: 500,000 seeds/acre Seeding Rate Hybrid: 300,000 seeds/acre

Swathed: 5/30/2016 Harvested: 6/8/2016 Herbicides: Assure II

Insecticides: Pyrethroid in the fall

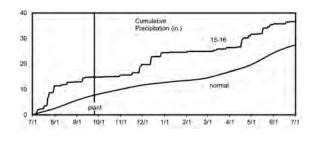
Irrigation: None
Previous crop: Wheat
Soil test: N/A
Fertilizer: N/A

Soil type: Pond Creek silt loam

Elevation: 1600 ft Latitude: 36° 58'N

Comments: Very high yielding and consistently even

location.



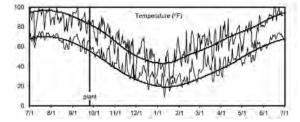


Table 14. Results for the 2016 National Winter Canola Variety Trial, open-pollianted cultivars, at Kiowa, KS

				Yield (% of				Plant	50%	Test		
Name	Y	ield (lb/a	a)	test avg.)	Winte	er surviv	al (%)	height	bloom	weight	Protein	Oil
	2016	2012	2-yr.	2016	2016	2015	2-yr.	(in)	(DOY)	(lb/bu)	(%)	(%)
CROPLAN by WinFiel	ld											
HyCLASS115W	2976	1728	2352	105		8.3		46.0	85	49.1	23.1	39.1
HyCLASS125W	3036	1989	2513	107		5.3		46.0	85	49.3	24.1	39.3
HyCLASS220W	2930			103		13.3		47.3	86	49.5	24.6	39.4
HyCLASS225W	2940			104		21.7		48.7	86	48.5	24.7	38.3
High Plains Crop Dev	elopmer	nt										
Claremore	2925	1670	2297	103		16.7		50.0	88	50.7	23.8	39.5
University of Idaho												
15.UI.WC.05633	2537	1728	2132	89				46.0	88	49.2	24.5	36.8
15.UI.WC.1	2637	2105	2371	93				45.3	88	51.0	21.5	40.2
Kansas State Univers	ity											
KS4506	2963			104		20.0		50.7	86	49.4	23.5	39.9
KSR07363	3012			106		16.7		46.7	86	49.7	25.6	37.4
KSUR1211	3033			107				48.7	86	49.4	23.6	40.1
Riley	3039	1946	2492	107		21.7		47.3	86	47.6	25.4	37.2
Sumner	2367	2033	2200	83		30.0		42.7	82	49.6	23.5	39.4
Wichita	2871	2018	2445	101		10.0		48.0	86	50.2	22.4	40.5
KWS MOMONT												
Kadore	3026			107				40.7	87	51.0	24.3	38.8
Quartz	3397			120				45.3	87	49.8	23.3	39.5
Monsanto / DEKALB												
DKW41-10	2391	1859	2125	84		10.0		48.0	86	49.1	24.7	38.7
DKW44-10	3010	1946	2478	106		10.0		42.7	83	49.2	23.3	39.7
DKW45-25	2650			93		20.0		43.3	87	50.2	23.4	38.7
DKW46-15	2681	1757	2219	94		20.0		43.3	85	50.3	25.1	38.1
DKW47-15	2650	1975	2312	93		8.3		46.7	86	49.8	23.8	35.8
Star Specialty Seed												
Star 915W	2502			88		11.7		48.7	86	48.2	25.9	37.1
Virginia State Univers	sity											
Virginia	2464	2120	2292	87		2.3		45.3	85	47.9	24.1	38.5
VSX-3	3175	2163	2669	112		1.0		46.0	85	48.4	23.5	38.7
VSX-4	2913			103		3.7		44.7	85	48.0	22.8	40.2
Mean	2838	2117	2478			8.6		46.2	86	49.4	23.9	38.8
CV	13	20				47.2		3.6	1	2.5	4.1	3.1
LSD (0.05)	NS	677				6.6		2.7	1	NS	2.1	2.5

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

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Table 15. Results for the 2016 National Winter Canola Variety Trial, hybrid cultivars, at Kiowa, KS

			1	Yield (% of				Plant	50%	Test		
Name	Υ	ield (lb/a	a)	test avg.)	Winte	r surviv	al (%)	height	bloom	weight	Protein	Oil
	2016	2012	2-yr.	2016	2016	2015	2-yr.	(in.)	(DOY)	(lb/bu)	(%)	(%)
DL Seeds Inc.												
DL14001RR	2698			81		3.7		48.0	86	48.3	23.1	39.1
Einstein	3818			114		5.0		48.7	86	49.2	23.8	38.2
Popular	3291			99		6.7		46.7	85	50.0	22.1	38.8
Reflex CL	3420			102				48.7	85	49.0	23.6	39.0
Thure	3448			103				47.3	85	49.3	22.5	38.8
WRH458	3426			103				48.7	85	50.8	22.2	39.8
DuPont Pioneer												
46W94	3246	2367	2806	97		2.3		50.0	86	47.8	23.0	39.1
Exp1302	3284			98		3.7		45.3	86	49.2	22.3	40.1
PX112	3704			111		13.3		44.0	87	48.4	23.9	39.2
KWS MOMONT												
Hekip	3328			100		2.3		50.0	84	49.4	22.3	39.4
Helix	2646			79				51.3	86	45.8	22.8	38.2
MH11J41	3299			99		2.3		44.7	86	49.0	22.9	40.8
MH12AC17	3322			99				46.0	85	47.7	23.7	38.5
MH12AQ37	3293			99				48.0	85	48.9	22.4	38.8
MH12AX37	3383			101		1.0		50.7	87	47.6	22.6	39.9
MH12AY27	3738			112				48.7	88	48.9	23.3	40.9
Monsanto / DEKALB												
DK Imiron CL	2998			90		11.7		45.3	87	48.9	23.8	37.7
DK Imistar CL	3473			104		3.7		48.7	87	49.8	23.3	40.0
DK Sensei	3463			104		5.0		46.7	87	49.2	22.4	40.0
DK Severnyi	3271			98		3.7		42.7	86	47.6	22.5	38.6
Rubisco Seeds LLC												
Edimax CL	3127	2425	2776	94		2.3		48.7	86	47.6	24.0	38.8
Hornet	3003	2120	2561	90		3.7		50.0	86	48.0	22.2	40.8
Inspiration	3538			106		3.7		49.3	86	48.1	24.8	38.1
Mercedes	3923	2701	3312	117		10.0		48.7	86	49.8	22.3	40.6
Mean	3339	2117	2728	-		8.6		47.8	86	48.7	23.0	39.3
CV	9	20		-		47.2		3.8	1	2.7	5.3	3.8
LSD (0.05)	472	677		-		6.6		3.0	1	2.2	NS	NS

Scottsbluff, Nebraska

Dipak Santra

University of Nebraska-Lincoln

Planted: 8/28/2015 Seeding Rate OP: 500,000 seeds/acre Seeding Rate Hybrid: 300,000 seeds/acre Harvested: 7/15/2016

Harvested: 7/15/2016 Herbicides: 1.5 pt/a Sonolan

Insecticides: None

Irrigation: 1 inch at planting

Previous crop: Fallow

Soil test: 17-586 ppm P-K, pH=8.1

Fertilizer: N/A

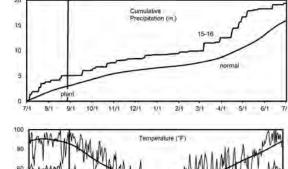
Soil type: Tripp fine sandy loam

Elevation: 3694 ft Latitude: 41° 51'N

Comments: Limited irrigation site. Only 1 inch applied at

planting. Treated as dryland the rest of the

season.



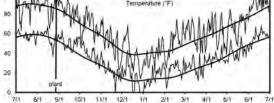


Table 16. Results for the 2016 National Winter Canola Variety Trial, open-pollinated cultivars, at Scottsbluff, NE

				Yield (% of				50%				
Name	Υ	ield (lb/	a)	test avg.)	Winte	er surviv	/al (%)	bloom	Maturity	Shatter	Protein	Oil
	2016	2015	2-yr.	2016	2016	2015	2-yr.	(DOY)	(DOY)	(%)	(%)	(%)
CROPLAN by WinFie	eld											
HyCLASS115W	1736			91				116	177	70	24.5	40.4
HyCLASS125W	2015			106				117	178	70	26.6	38.4
HyCLASS220W	1864			98				118	178	63	25.1	38.8
HyCLASS225W	1613			84				119	176	70	24.0	39.4
High Plains Crop De	velopme	nt										
Claremore	2144			112				123	177	50	26.4	39.3
Kansas State Univer	sity											
KS4506	1926			101				118	177	57	26.5	37.2
KSR07363	1657			87				117	175	60	25.3	38.1
KSUR1211	1934			101				120	177	60	26.8	37.8
Riley	1997			105				117	178	63	25.9	40.2
Sumner	1456			76				109	175	57	24.7	39.8
Wichita	1687			88				121	177	47	25.7	38.6
KWS MOMONT												
Kadore	2256			118				123	180	57	23.0	39.5
Quartz	2450			128				122	182	37	23.0	40.8
Monsanto/DEKALB												
DKW41-10	1531			80				109	178	57	27.6	35.4
DKW44-10	1742			91				120	177	57	25.7	37.2
DKW45-25	1759			92				116	175	57	25.9	37.1
DKW46-15	1480			77				119	175	70	23.8	40.6
DKW47-15	1757			92				121	178	53	25.7	39.2
Star Specialty Seeds	3											
Star 915W	2097			110				119	181	53	25.7	40.0
University of Idaho												
15.UI.WC.05633	2240			117				122	180	30	24.9	40.5
15.UI.WC.1	2253			118				123	180	60	24.0	38.6
Virginia State Univer	rsity											
Virginia	1953			102				115	179	43	23.7	39.8
VSX-3	2023			106				120	179	53	24.1	39.9
VSX-4	2268			119				118	181	53	27.2	37.3
Mean	1910							118	178	56	25.2	38.9
CV	16							2	1	21	5.2	3.4
LSD (0.05)	506							5	3	19	NS	2.7

Table 17. Results for the 2016 National Winter Canola Variety Trial, hybrid cultivars, at Scottsbluff, NE

				Yield (% of				50%	•			
Name	Υ	ield (lb/	a)	test avg.)	Winte	er surviv	al (%)	bloom	Maturity	Shatter	Protein	Oil
	2016	2015	2-yr.	2016	2016	2015	2-yr.	(DOY)	(DOY)	(%)	(%)	(%)
DL Seeds												
DL14001RR	2388			103				123	184	50	26.9	36.9
Einstein	2302			100				117	181	50	22.8	39.9
Popular	2110			91				117	180	60	25.5	39.1
Reflex CL	2342			101				116	181	47	25.5	38.9
Thure	2002			87				118	179	37	24.8	38.6
WRH458	1629			70				115	176	80	25.9	37.9
DuPont Pioneer												
46W94	2210			96				120	179	77	23.6	39.7
Exp1302	2248			97				119	180	43	25.0	41.0
PX112	2214			96				122	180	50	25.5	39.4
KWS MOMONT												
Hekip	2663			115				115	182	40	26.1	38.1
Helix	1502			65				123	185	37	25.4	40.2
MH11J41	2235			97				117	180	63	24.7	39.4
MH12AC17	2195			95				117	185	37	24.1	42.4
MH12AQ37	2506			108				118	182	30	25.3	38.3
MH12AX37	2340			101				122	185	30	26.3	38.7
MH12AY27	2686			116				123	185	30	24.0	39.5
Monsanto/DEKALB												
DK Imiron CL	2641			114				121	178	40	26.7	35.7
DK Imistar CL	3022			131				117	177	37	26.1	37.9
DK Sensei	2783			120				122	178	33	27.4	35.3
DK Severnyi	2353			102				121	184	27	24.5	39.3
Rubisco Seeds												
Edimax CL	2375			103				121	185	33	24.7	38.5
Hornet	1904			82				123	184	30	24.9	39.3
Inspiration	2631			114				119	180	30	25.0	39.2
Mercedes	2275			98				117	181	33	25.7	38.9
Mean	2311							119	181	43	25.3	38.8
CV	11							2	2	19	5.1	3.4
LSD (0.05)	410							4	4	13	NS	2.7

Clovis, New Mexico

Sangu Angadi and Sultan Begna New Mexico State University

Planted: 9/8/2015 Seeding Rates: 3-6 lb/acre Desiccant: 2 pt/a Diquat Harvested: 6/22/2016

Herbicides: Treflan HFP, Prowl H2O Insecticides: Sivanto, BeLeaf, Mustang Maxx

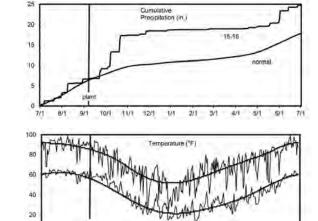
Irrigation: 11 inches
Previous crop: Fallow

Soil test: 19-10-392 ppm N-P-K, pH=7.8 Fertilizer: 65-40-0-28 lb N-P-K-S fertilizer in fall

Soil type: Olton clay loam

Elevation: 4436 ft Latitude: 34° 36'N
Comments: Excellent yields under limited irrigation

on the High Plains.



12/1 1/1

2/1 3/1

Table 18. Results for the 2016 National Winter Canola Variety Trial, open-pollinated cultivars, at Clovis, NM

				Yield (% of				Plant	50%	Test		
Name	Υ	ield (lb/a	a)	test avg.)	Winte	er surviv	al (%)	height	bloom	weight	Protein	Oil
	2016	2015	2-yr.	2016	2016	2015	2-yr.	(in.)	(DOY)	(lb/bu)	(%)	(%)
CROPLAN by WinFiel	d											
HyCLASS115W	3119	3724	3422	99	98	98	98	46	86		28.8	35.7
HyCLASS125W	3000	3371	3186	95	98	98	98	47	86		26.8	37.2
HyCLASS220W	3716	3692	3704	118	98	97	98	50	88		27.2	36.4
HyCLASS225W	3254	3299	3277	103	98	97	98	48	88		27.1	35.2
High Plains Crop Dev	elopme	nt										
Claremore	2979	3657	3318	95	98	98	98	52	94		29.2	34.7
Kansas State Univers	ity											
KS4506	3377	3834	3606	107	98	98	98	54	90		26.1	37.4
KSR07363	3204	3518	3361	102	98	98	98	49	86		27.6	36.0
KSUR1211	3383			107	98			51	91		27.6	35.6
Riley	3352	4105	3729	106	98	98	98	49	87		27.5	35.5
Sumner	2877	3269	3073	91	98	98	98	47	86		28.7	35.9
Wichita	3167	3663	3415	101	98	98	98	49	87		28.5	34.6
KWS MOMONT												
Kadore	3594			114	98			48	93		26.6	34.2
Quartz	3528			112	98			49	92		26.1	36.8
Monsanto / DEKALB												,
DKW41-10	1777	2666	2222	56	98	98	98	38	82		29.3	35.2
DKW44-10	3504	3444	3474	111	98	98	98	44	87		27.4	33.8
DKW45-25	3186	3299	3243	101	98	98	98	51	87		26.5	35.6
DKW46-15	3014	3817	3416	96	98	98	98	47	89		26.8	36.7
DKW47-15	3118	3538	3328	99	98	98	98	50	90		28.0	35.3
Star Speciality Seed												
Star 915W	3183	4080	3632	101	98	97	98	47	87		28.3	35.8
University of Idaho												
15.UI.WC.05633	2738			87	96			52	94		27.7	34.2
15.UI.WC.1	3140			100	98			51	92		27.3	34.9
Virginia State Univers	ity											
VIRGINIA	3015	3384	3200	96	98	95	97	47	87		28.7	34.6
VSX-3	2964	3184	3074	94	98	97	98	47	87		27.6	35.8
VSX-4	3359	3216	3288	107	98	95	97	48	88		27.6	35.7
Mean	3148	3811			98	98	98	48	88		27.6	35.5
CV	8	10			0			5	1		1.2	1.9
LSD (0.05)	405	607			0			4	2		2.1	2.6

Table 19. Results for the 2016 National Winter Canola Variety Trial, hybrid cultivars, at Clovis, NM

				Yield (% of				Plant	50%	Test		
Name	Y	ield (lb/a	a)	test avg.)	Winte	er surviv	al (%)	Height	bloom	weight	Protein	Oil
	2016	2015	2-yr.	2016	2016	2015	2-yr.	(in.)	(DOY)	(lb/bu)	(%)	(%)
DL Seeds Inc.												
DL 14001RR	3672	3493	3583	93	98	96	97	47	90		27.6	35.0
Einstein	4026	4013	4020	102	98	96	97	48	90		25.7	36.7
Popular	4295	3489	3892	109	98	98	98	49	89		26.2	36.4
Reflex	3881			98	98			51	89		25.9	35.4
Thure	3756			95	98			45	88		28.0	33.6
WRH458	3775			96	98			47	87		26.0	35.4
DuPont Pioneer												
46W94	3626	4238	3932	92	98	97	98	47	86		26.1	36.7
EXP1302	4197	4172	4185	106	98	97	98	51	90		26.7	37.8
PX112	3732	4066	3899	95	98	98	98	46	91		27.9	33.4
KWS MOMONT												
Hekip	4477	3933	4205	113	98	98	98	45	85		26.2	34.3
Helix	3684			93	98			55	91		25.6	37.6
MH11J41	4125	3498	3812	104	98	98	98	47	89		27.0	36.3
MH12AC17	3812			97	98			46	87		28.6	35.2
MH12AQ37	3934			100	98			47	86		28.4	35.7
MH12AX37	4251	3219	3735	108	98	98	98	49	90		26.2	37.1
MH12AY27	3762			95	98			55	91		26.3	35.4
Monsanto / DEKALB												
DK Imiron CL	3957	4378	4168	100	98	98	98	46	90		27.7	34.6
DK Imistar CL	3778	4124	3951	96	98	98	98	47	89		27.0	37.2
DK Sensei	3924	4182	4053	99	98	98	98	50	91		27.2	35.4
DK Severnyi	4028	3890	3959	102	98	98	98	45	89		26.9	36.1
Rubisco Seeds LLC												
Edimax CL	3774	3884	3829	96	98	98	98	47	89		26.4	36.8
Hornet	4063	3943	4003	103	98	98	98	50	89		26.9	35.2
Inspiration	4272	3993	4133	108	98	97	98	53	87		26.1	36.8
Mercedes	3944	3778	3861	100	98	98	98	49	91		26.8	36.3
Mean	3948	3811			98	98	98	48	89		26.8	35.8
CV	8	10						5	1		1.7	2.1
LSD (0.05)	502	607						4	2		3.1	2.8

Chickasha, Oklahoma

Josh Lofton Oklahoma State University

Soil type: McClain silty clay loam
Elevation: 1085 ft Latitude: 35° 02'N
Comments: Yields were average or better for

two years in a row.

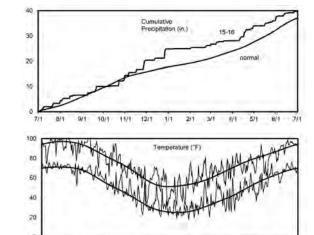


Table 20. Results for the 2016 National Winter Canola Variety Trial, open-pollinated cultivars, at Chickasha, OK

				Yield (% of					
Name		Yield (lb/a)1		test avg.)		nter survival		Test weight	Moisture
	2016	2015	2-yr.	2016	2016	2015	2-yr.	(lb/bu)	(%)
CROPLAN by WinFie	eld								
HyCLASS115W	1996	1610	1803	113				51.6	11.1
HyCLASS125W	1794	1765	1780	102				50.8	10.5
HyCLASS220W	1825	1650	1738	103				52.2	10.7
HyCLASS225W	1745	1420	1582	99				50.7	11.2
High Plains Crop De	velopment								
Claremore	2036	2170	2103	115				51.4	11.1
Kansas State Univer	sity								
KS4506	1937	1885	1911	110				50.1	11.2
KSR07363	2084	1615	1850	118				50.8	11.7
KSUR1211	1848			105				50.7	11.6
Riley	1787	1715	1751	101				51.2	11.3
Sumner	1900	1595	1747	108				51.5	10.7
Wichita	1515	1720	1617	86				50.5	11.2
KWS MOMONT									
Kadore	1409			80				50.7	10.8
Quartz	2116			120				51.1	11.1
Monsanto / DEKALB									
DKW41-10	893	1625	1259	51				50.2	11.1
DKW44-10	1624	1565	1595	92				49.9	10.9
DKW45-25	1771	1345	1558	100				51.6	10.9
DKW46-15	1756	1740	1748	100				51.8	10.1
DKW47-15	1575	1470	1522	89				49.9	11.1
Star Specialty Seeds	}								
Star 915W	1966	1365	1666	111				51.0	10.4
University of Idaho									
15.UI.WC.05633	1424			81				49.2	11.4
15.UI.WC.1	1675			95				51.2	11.7
Virginia State Univer	sity								
Virginia	1952	1840	1896	111				50.9	11.3
VSX-3	1934	1705	1819	110				50.1	11.0
VSX-4	1778	1535	1656	101				49.4	11.2
Mean	1764	1962						50.8	11.0
CV	14	20						2.2	4.5
LSD (0.05)	398	624						NS	0.8

¹Yields adjusted to 9% moisture.

Table 21. Results for the 2016 National Winter Canola Variety Trial, hybrid cultivars, at Chickasha, OK

				Yield (% of					
Name		Yield (lb/a)1		test avg.)	Wir	nter surviva	(%)	Test weight	Moisture
	2016	2015	2-yr.	2016	2016	2015	2-yr.	(lb/bu)	(%)
DL Seeds Inc.									
DL14001RR	1404	2230	1817	70				51.4	10.4
Einstein	1938	2590	2264	96				50.8	11.0
Popular	2453	2990	2722	122				50.9	11.1
Reflex CL	2240			111				52.1	11.2
Thure	1998			99				51.2	11.3
WRH458	1938			96				51.3	11.2
DuPont Pioneer									
46W94	1959	1765	1862	97				50.5	10.9
Exp1302	1730	2855	2293	86				50.4	10.9
PX112	1193	3060	2127	59				50.6	10.8
KWS MOMONT									
Hekip	2262	2210	2236	112				51.4	10.9
Helix	1937			96				50.1	11.3
MH11J41	1941	1955	1948	96				50.8	10.8
MH12AC17	1742			86				50.0	10.4
MH12AQ37	2198			109				52.0	10.9
MH12AX37	1859	1770	1815	92				49.6	11.9
MH12AY27	1833			91				50.6	11.3
Monsanto / DEKALB									
DK Imiron CL	2258	1965	2112	112				51.7	11.0
DK Imistar CL	2251	2285	2268	112				51.7	11.1
DK Sensei	2203	2190	2196	109				50.4	11.1
DK Severnyi	2123	1840	1982	105				51.0	10.8
Rubisco Seeds LLC									
Edimax CL	2338	2070	2204	116				51.1	11.0
Hornet	2167	2160	2164	107				50.1	11.4
Inspiration	2219	2300	2260	110				52.1	10.8
Mercedes	2245	1870	2057	111				51.9	11.0
Mean	2018	1962						51.0	11.0
CV	11	20						2.0	5.2
LSD (0.05)	361	624						NS	NS

¹Yields adjusted to 9% moisture.

Goodwell, Oklahoma

Tracy Beedy

Oklahoms State University

Soil Type: Richfield clay loam
Elevation: 3239 ft Latitude: 36° 36'N

Comments: Hybrid yields were considerably better

than open-pollinated yields at this trial

site.

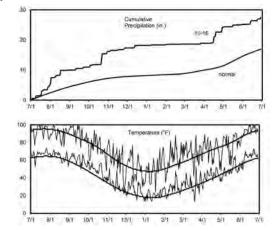


Table 22. Results for the 2016 National Winter Canola Variety Trial, open-pollinated cultivars, at Goodwell, OK

				Yield (% of				Fall	Fall	Test	
Name	Υ	ield (lb/a	a) ¹	test avg.)	Winte	er surviv	al (%)	stand	vigor ²	weight	Moisture
	2016	2014	2-yr.	2016	2016	2014	2-yr.	(0-10)	(1-5)	(lb/bu)	(%)
CROPLAN by WinF	ield										
HyCLASS115W	1213	1221	1217	80				8.3	4.3	39.1	7.3
HyCLASS125W	1515	1516	1516	100				8.7	4.0	41.9	6.6
HyCLASS220W	1467			97				7.7	3.3	44.4	4.8
HyCLASS225W	1310	1687	1498	86				7.7	3.7	44.6	4.8
High Plains Crop D	evelopme	nt									
Claremore	1720	1803	1761	113				8.0	3.7	45.3	4.6
Kansas State Unive	ersity										
KS4506	1748	1571	1660	115				7.3	3.3	45.9	5.9
KSR07363	1505	1541	1523	99				8.0	3.7	44.6	3.7
KSUR1211	1891			125				8.0	4.3	46.9	4.8
Riley	1765	1308	1536	116				5.7	1.7	47.9	4.1
Sumner	1290	1226	1258	85				9.0	5.0	44.7	5.6
Wichita	1226	1047	1136	81				5.7	2.0	44.4	4.4
KWS MOMONT											
Kadore	2080			137				8.0	3.3	46.5	5.3
Quartz	1568			103				8.0	4.0	43.7	6.5
Monsanto / DEKAL	В										
DKW41-10	996	1331	1163	66				7.3	3.3	36.8	9.1
DKW44-10	1457	986	1222	96				7.0	3.0	39.8	5.8
DKW45-25	1805	1355	1580	119				6.7	2.7	42.3	8.2
DKW46-15	1829	729	1279	121				7.0	2.7	46.8	2.7
DKW47-15	1252	1260	1256	82				8.0	3.7	38.5	7.5
Star Specialty Seed	ls										
Star 915W	855	1445	1150	56				7.7	2.3	42.5	7.0
University of Idaho											
15.UI.WC.05633	1557			103				6.3	4.3	40.9	6.4
15.UI.WC.1	1723			113				8.0	3.7	46.5	4.7
Virginia State Unive	ersity										
Virginia	1520	1921	1720	100				7.0	3.3	37.7	9.4
VSX-3	1340	1638	1489	88				7.0	3.3	37.2	10.1
VSX-4	1943	1417	1680	128				6.7	2.7	35.6	12.9
Mean	1518	1755						7.4	3.4	42.7	6.4
CV	34	24						12.3	19.5	7.5	23.2
LSD (0.05)	NS	704						1.5	1.1	5.3	2.4

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

²Fall vigor is rated on a scale of 1=poor to 5=excellent.

Table 23. Results for the 2016 National Winter Canola Variety Trial, hybrid cultivars, at Goodwell, OK

				Yield (% of				Fall	Fall	Test	
Name	Υ.	'ield (lb/a	a)	test avg.)	Winte	r surviv	al (%)	stand	vigor ¹	weight	Moisture
	2016	2014	2-yr.	2016	2016	2014	2-yr.	(0-10)	(1-5)	(lb/bu)	(%)
DL Seeds Inc.											
DL14001RR	1877			81				6.3	3.0	51.0	4.2
Einstein	2524			109				7.8	4.0	43.9	3.7
Popular	2593	1626	2110	112				6.7	4.0	51.0	3.9
Reflex CL	1955			84				7.3	4.0	49.3	4.4
Thure	3005			130				8.3	4.7	43.1	3.6
WRH458	1851			80				6.7	4.0	42.7	6.2
DuPont Pioneer											
46W94		1423						8.2	3.9		
Exp1302	2422	2142	2282	104				6.7	3.0	42.6	5.0
PX112	3111	2182	2646	134				6.7	2.3	45.1	5.1
KWS MOMONT											
Hekip	2265	1668	1966	98				8.3	4.0	47.3	3.9
Helix	2437			105				7.7	4.3	42.4	6.7
MH11J41	1674			72				6.7	3.3	47.2	3.8
MH12AC17	1946			84				7.0	3.3	45.9	5.3
MH12AQ37	1812			78				7.7	3.0	47.9	4.2
MH12AX37	1988			86				6.7	3.0	44.7	6.2
MH12AY27	2502			108				7.0	3.3	48.9	3.7
Monsanto / DEKALB											
DK Imiron CL		2336						5.7	3.0		
DK Imistar CL	2121			91				6.3	3.3	51.9	
DK Sensei	2931	2338	2635	126				6.7	3.0	49.8	4.0
DK Severnyi	2936			127				7.0	3.3	50.5	3.8
Rubisco Seeds LLC											_
Edimax CL	2027	1647	1837	87				6.7	3.3	48.0	4.3
Hornet	2635	2017	2326	114				7.7	4.0	47.1	4.8
Inspiration	2313	2263	2288	100				7.3	4.3	47.9	4.2
Mercedes	2268	2252	2260	98				8.0	5.0	50.2	4.8
Mean	2319	1755						7.1	3.6	47.1	4.5
CV	20	24						12.9	15.6	8.0	24.6
LSD (0.05)	756	704						NS	0.9	NS	1.8

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

Bushland, Texas

Jourdan Bell

Texas A&M University

 Planting Date 1:
 8/17/2015

 Planting Date 2:
 10/2/2015

 Harvested:
 6/24/2016

 Herbicides:
 32 oz/a Glyphosate

Insecticides: None Irrigation: None Previous crop: N/A Soil test: N/A

Fertilizer: No fertility required based on soil test.

Soil type: N/A Elevation: N/A

Comments: Two planting dates were used. Plots

were grown in 30-in rows.

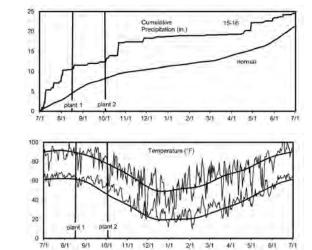


Table 24. Results for the 2016 National Winter Canola Variety Trial at Bushland, TX

			Yield (% of				Yield (% of			
Name	Type ¹	Yield (lb/a)	test avg.)	Protein	Oil	Yield (lb/a)	test avg.)	Protein	Oil	Avg. yield
		2016	2016	(%)	(%)	2016	2016	(%)	(%)	(lb/a)
			Planting Da	te 1			Planting Da	te 2		
CROPLAN by WinF	ield									
HyCLASS115W	OP	1619	102	28.4	36.8	865	60	26.9	32.9	1242
HyCLASS125W	OP	995	62	26.9	34.6	1001	69	26.4	38.6	998
DuPont Pioneer										
46W94	Н	1732	109	27.4	36.9	983	68	26.5	36.7	1358
DL Seeds Inc.										
Einstein	Н	1578	99	27.4	36.9	2056	142	26.1	39.1	1817
Popular	Н	1698	107	26.8	37.3	1687	117	25.5	37.5	1693
Kansas State Unive	ersity									
Wichita	OP	1890	119	27.5	36.6	1123	78	28.1	37.7	1506
KWS MOMONT										
Kadore	OP	1664	104	28.0	35.6	1362	94	27.0	34.1	1513
Quartz	OP	2615	164	27.1	37.7	1916	133	24.6	40.9	2265
Monsanto/DEKALE	3									
DKW45-25	OP	1652	104	26.7	37.3	1428	99	26.6	35.2	1540
DKW46-15	OP	344	22	26.5	35.0	676	47	25.7	36.7	510
Rubisco Seeds LLC	С									
Edimax CL	Н	2288	143	27.6	37.4	1791	124	25.8	38.9	2039
Hornet	Н	1216	76	26.2	35.3	1622	112	26.2	39.2	1419
Inspiration	Н	1559	98	27.0	35.0	1857	129	27.4	35.8	1708
Mercedes	Н	1706	107	26.0	34.9	2316	160	25.2	40.5	2011
Star Specialty Seed	d									
Star 915W	OP	1361	85	27.6	36.2	966	67	27.2	38.8	1163
Mean		1595		27.1	36.2	1443		26.4	37.5	1519
CV				3.1	4.4			4.2	6.3	
LSD (0.05)		370		NS	NS	370		NS	NS	271

¹Type: OP=open-pollinated, H=hybrid

Bozeman, Montana

Perry Miller and Jeff Holmes Montana State University

8/26/2015 8/11/2016 Planted: Harvested: Herbicides: Glyphosate Insecticides: 2 oz/a Warrior II

Irrigation: None Previous crop: N/A Soil test: N/A

23-0-0-0 lb N-P-K-S in fall 69-0-0-0 lb N-P-K-S in spring Amsterdam silt loam Fertilizer:

Soil type: Elevation:

4775 ft Latitude: 45° 40'N Roundup Ready varieties only. A warm winter resulted in no winterkill. Harvest was delayed Comments:

but yields were excellent.

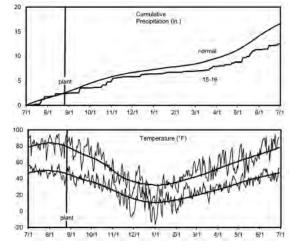


Table 25. Results for the 2016 National Winter Canola Variety Trial at Bozeman, MT

					Yield (% of				50%		Fall	
Name	Type ¹	Y	ield (lb/a	a)	test avg.)	Winte	er surviv	/al (%)	bloom	Maturity	stand	Moisture
		2016	2013	2-yr.	2016	2016	2013	2-yr.	(DOY)	(DOY)	(0-10)	(%)
CROPLAN by Winf	ield											
HyCLASS115W	OP	2757	2990	2873	113				146	169	9.2	6.8
HyCLASS125W	OP	2462	3080	2771	101				149	172	8.3	7.0
HyCLASS220W	OP	2846			117				147	171	7.3	5.8
HyCLASS225W	OP	2694			110				146	171	6.3	6.5
DL Seeds Inc.												
DL14001RR	Н	1954			80				147	176	4.9	7.2
DuPont Pioneer												
46W94	Н	2284	2770	2527	94				148	174	5.8	7.9
Kansas State Univ	ersity											
KSR07363	OP	2632	3265	2948	108				146	170	8.0	6.5
KSR4652	OP	2436			100				147	170	8.0	6.9
KSR4653S	OP	2552			105				147	170	8.8	6.9
KSR4704	OP	2677			110				146	171	7.5	6.8
Monsanto / DEKAL	.В											
DKW41-10	OP	2587	2915	2751	106				146	168	4.8	6.4
DKW44-10	OP	2587	3135	2861	106				148	170	7.0	6.5
DKW45-25	OP	2346			96				147	169	5.5	6.3
DKW46-15	OP	2427	3365	2896	99				148	171	6.5	6.4
DKW47-15	OP	1454	3155	2305	60				150	173	7.8	6.9
Star Specialty See	d											
Star 915W	OP	2329			95				148	178	4.8	6.9
Mean		2439	3065						147	171	7.0	7.1
CV			7									
LSD (0.05)		381	315						2	2	2.1	0.9

¹Type: OP=open-pollinated, H=hybrid

Beresford, South Dakota

Peter Sexton

South Dakota State University

Planted: 9/4/2015

Seeding Rate OP: 500,000 seeds/acre Seeding Rate Hybrid: 300,000 seeds/acre

Harvested: 7/1/2016

Soil type: Egan-Clarno-Trent silty complex
Elevation: 1499 ft Latitude: 43° 4'N
Comments: No winterkill oberved. Fall stands were low but the plants compensated well.

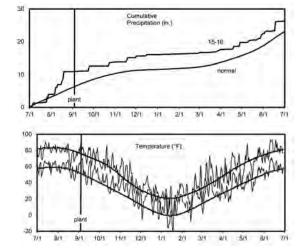


Table 26. Results for the 2016 National Winter Canola Variety Trial, open-pollinated cultivars, at Beresford, SD

				Yield (% of				·			
Name	Yi	eld (lb/a) ^{1,2}	test avg.)	Winte	Winter survival (%)			Moisture	Protein	Oil
	2016	2015	2-yr.	2016	2016	2015	2-yr.	(plts/ft ²)	(%)	(%)	(%)
CROPLAN by WinF	ield										
HyCLASS115W	1748			87				6.1	11.6	24.3	35.7
HyCLASS125W	1949			97				2.9	13.0	24.5	36.4
HyCLASS220W	2031			101				1.8	11.8	23.8	36.9
HyCLASS225W	2067			103				1.8	9.2	23.4	37.6
High Plains Crop D	evelopme	nt									
Claremore	2028			101				1.7	12.0	24.8	36.4
Kansas State Unive	ersity										
KS4506	1933			96				3.1	15.1	24.5	33.3
KSR07363	1979			99				2.2	11.1	24.8	35.7
KSUR1211	2216			111				2.6	9.6	23.9	38.7
Riley	2352			117				2.5	13.7	24.1	37.6
Sumner	1606			80				1.5	11.0	25.4	35.4
Wichita	1884			94				2.3	8.4	24.5	38.2
KWS MOMONT											
Kadore	2193			109				3.2	10.0	23.4	36.5
Quartz	2226			111				4.8	14.3	22.8	35.3
Monsanto / DEKAL	В										
DKW41-10	1908			95				1.4	15.5	26.3	33.2
DKW44-10	1989			99				2.7	16.1	24.8	34.9
DKW45-25	1503			75				2.0	12.4	25.1	35.5
DKW46-15	2339			117				2.9	9.9	24.0	37.3
DKW47-15	2211			110				3.7	11.4	24.9	35.3
Star Specialty Seed	ls										
Star 915W	2583			129				3.0	11.1	24.5	36.5
University of Idaho											
15.UI.WC.05633	1662			83				2.4	20.1	24.7	37.2
15.UI.WC.1	1708			85				1.8	16.4	24.5	35.1
Mean	2005							2.6	12.6	24.4	36.1
CV	26							44.5	20.6	3.1	6.2
LSD (0.05)	NS							2.0	2.0	1.6	NS

¹Yields adjusted to 9% moisture.

²Use yield data with caution. A CV above 20 indicates higher experimental error. Make variety selection decisions based on more than one year's data.

Table 27. Results for the 2016 National Winter Canola Variety Trial, hybrid cultivars, at Beresford, SD

				Yield (% of							
Name	Υ	ield (lb/a	a) ¹	test avg.)	Winte	r surviv	al (%)	Fall stand	Moisture	Protein	Oil
	2016	2015	2-yr.	2016	2016	2015	2-yr.	(plts/ft ²)	(%)	(%)	(%)
DL Seeds Inc.											
DL14001RR	2150			96				2.2	13.6	24.2	35.2
Einstein	2436			109				2.1	15.2	23.0	37.5
Popular	2157			97				1.9	14.7	22.1	38.6
Reflex CL	2134			96				1.6	13.0	22.1	38.2
Thure	2425			109				1.3	12.7	22.2	38.7
WRH458	1737			78				1.3	15.3	23.1	38.1
DuPont Pioneer											
46W94	2458			110				3.1	13.4	22.2	39.6
Exp1302	1536			69				1.3	13.5	23.2	38.9
PX112	1641			74				1.3	16.8	23.6	37.9
KWS MOMONT											
Hekip	2212			99				2.0	16.2	22.3	38.7
Helix	2286			102				2.9	18.3	23.7	38.2
Monsanto / DEKALB											
DK Imiron CL	2685			120				2.6	13.1	24.0	36.0
DK Imistar CL	2586			116				3.5	14.5	24.1	37.0
DK Sensei	2439			109				1.6	9.9	22.9	39.2
DK Severnyi	2583			116				3.3	13.9	22.6	39.6
Rubisco Seeds LLC											
Edimax CL	2329			104				3.0	14.4	22.3	38.9
Hornet	2511			112				2.1	14.8	23.1	37.8
Inspiration	1913			86				1.6	13.8	22.9	38.3
Mercedes	2189			98				2.5	15.7	22.3	40.0
Mean	2232							2.2	14.3	22.9	38.2
CV	14							41.6	18.3	2.4	3.3
LSD (0.05)	522							1.5	NS	1.1	NS

¹Yields adjusted to 9% moisture.

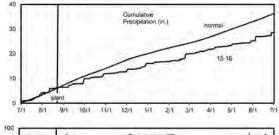
Alburgh, Vermont

Heather Darby and Sara Ziegler University of Vermont

Planted: 8/23/2015
Seeding Rate: 6 lb/acre
Harvested: 7/18/2016
Herbicides: None
Insecticides: None
Irrigation: None
Previous crop: Spring wheat

Soil test: 19-46 ppm P-K, pH=7.5
Fertilizer: 50-100-100 lb N-P-K fertilizer
Soil type: Benson rocky silt loam
Elevation: 130 ft Latitude: 45° 0'N
Comments: No winterkill was observed as a

result of a very mild winter.



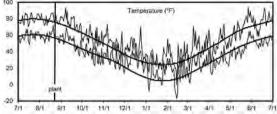


Table 28. Results for the 2016 National Winter Canola Variety Trial at Alburgh, VT

					Yield (% of		3 ,		Test			
Name	Type ¹	Υ	ield (lb/a	a)	test avg.)	Winte	r surviv	al (%)	weight	Moisture	Protein	Oil
		2016	2015	2-yr.	2016	2016	2015	2-yr.	(lb/bu)	(%)	(%)	(%)
DL Seeds Inc.												
Einstein	Н	1993			108				49.8	10.0	20.2	46.6
Kansas State Univer	sity											
KS4506	OP	2287			124				50.2	5.4	21.8	44.5
Riley	OP	1878			102				51.2	6.1	23.6	44.8
Wichita	OP	1407			76				50.8	5.9	24.0	43.2
KWS MOMONT												
Hekip	Н	2046			111				45.8	12.8	21.7	45.0
Helix	Н	1411			76				48.3	20.4	22.4	44.8
Kadore	OP	2228			121				51.7	6.0	21.4	44.0
Quartz	OP	2416			131				50.5	5.8	21.2	46.2
Rubisco Seeds LLC												
Edimax CL	Н	2086			113				49.7	9.1	21.8	43.3
Hornet	Н	2198			119				50.8	14.0	22.3	43.9
Inspiration	Н	2020			109				49.2	8.5	21.5	45.1
Mercedes	Н	2298			124				48.7	8.1	20.2	46.3
University of Idaho												
15.UI.WC.05633	OP	2026			110				49.3	9.5	22.8	44.5
15.UI.WC.1	OP	1966			106				49.3	9.6	22.6	42.9
Virginia State Univer	rsity											
Virginia	OP	1520			82				49.3	7.3	22.5	44.1
Mean		1979							49.6	9.3	22.0	44.6
CV		12							3.8	46.0	2.3	1.6
LSD (0.05)		413							NS	7.2	1.1	1.5

¹Type: OP=open-pollinated, H=hybrid

Table 29. Results for the 2016 Blackleg (Leptosphaeria maculans) Trial at Perkins, OK.

National Winter Canola Variety Trial
J.P. Damicone, T.J. Pierson, J.J. Lofton, and W.E. Vaughan, Oklahoma State University
M.J. Stamm, Kansas State University

· · · · · · · · · · · · · · · · · · ·		Actor	Planking	Planking	Plackles
	1	Aster	Blackleg	Blackleg	Blackleg
	Yield ¹	yellows ²	incidence ³	incidence ⁴	severity ⁵
Entry	(lb/a)	(%)	(%)	(≥ 3%)	(0-5)
CROPLAN by WinField					
HyCLASS 115W	2513 f-m	13.3 d-i	80 a-d	40.0 c-g	2.1 c-g
HyCLASS 125W	2383 h-m	11.7 e-i	77 a-e	46.7 c-e	2.4 b-f
HyCLASS 220W	2405 g-m	6.7 hi	80 a-d	46.7 c-e	2.6 b-d
HyCLASS 225W	2551 f-m	13.3 d-i	90 ab	76.7 ab	3.1 a-c
DL Seeds Inc.	0000: -	4004:	00	00.7 4 1	4746
DL14001RR	2289 i-n	13.3 d-i	83 a-c	26.7 d-k	1.7 d-k
Einstein	2860 b-j	18.3 c-g	80 a-d	53.3 bc	2.6 b-d
Popular Pofley Cl	3280 b-e	16.7 d-h	63 b-i	23.3 e-k	1.4 f-l
Reflex CL	2735 d-l	21.7 b-e	47 f-l	16.7 g-k	1.0 h-m
Thure	3247 b-e	15.0 d-i	63 b-i	33.3 c-i	1.6 d-k
WRH458	2408 g-m	20.0 b-f	40 h-m	23.3 e-k	1.2 g-m
DuPont Pioneer 46W94	3136 b-f	8.3 g-i	77 a-e	26.7 d-k	1.7 d-k
Exp 1302	2163 j-o	10.0 f-i	30 k-m	3.3 k	0.5 lm
PX112	2840 c-j	10.0 I-I 11.7 e-i	63 b-i	10.0 i-k	1.1 g-m
High Plains Crop Develo		11.7 6-1	03 b-i	10.0 I-K	1.1 g-111
Claremore	2042 k-o	10.0 f-i	70 a-g	30.0 c-j	1.8 d-j
University of Idaho	2042 K-0	10.01-1	70 a-g	30.0 0-j	1.0 0-j
15.UI.WC.05633	2016 I-o	8.3 g-i	67 a-h	23.3 e-k	1.6 d-k
15.UI.WC.1	2201 j-o	16.7 d-h	73 a-f	23.3 e-k	1.7 d-k
Kansas State University	220. j 0	10.7 4 11	7041	20.0 0 K	1.7 G K
KS4506	1966 m-o	20.0 b-f	63 b-i	36.7 c-h	1.7 d-k
KSR07363	2519 f-m	13.3 d-i	77 a-e	36.7 c-h	2.3 b-f
KSUR1211	2519 f-m	10.0 f-i	50 e-l	23.3 e-k	1.5 e-l
Riley	1957 m-o	30.0 ab	57 c-k	18.3 f-k	1.2 g-m
Sumner	2467 f-m	15.0 d-i	60 c-j	36.7 c-h	1.9 d-i
Wichita	1624 o	33.0 a	65 b-h	20.3 f-k	1.2 g-m
KWS MOMONT					9
Hekip	3507 ab	11.7 e-i	60 c-j	36.7 c-h	1.8 d-j
Helix	2662 e-l	23.3 a-d	47 f-l	13.3 h-k	1.0 h-m
Kadore	2085 k-o	23.3 a-d	33 j-m	13.3 h-k	0.7 k-m
MH11J41	3320 b-d	11.7 e-i	40 h-m	10.0 i-k	0.8 j-m
MH12AC17	2986 b-h	11.7 e-i	57 c-k	16.7 g-k	1.2 g-m
MH12AQ37	3017 b-h	16.7 d-h	37 i-m	16.7 g-k	0.9 j-m
MH12AX37	2776 d-j	15.0 d-i	17 m	6.7 jk	0.3 m
MH12AY27	2753 d-k	8.3 g-i	23 lm	6.7 jk	0.4 lm
Quartz	3156 b-f	20.0 b-f	47 f-l	20.0 f-k	1.1 g-m
Monsanto / DEKALB					
DK Imiron CL	3052 b-g	8.3 g-i	47 f-l	16.7 g-k	0.9 i-m
DK Imistar CL	3195 b-f	11.7 e-i	53 d-k	20.0 f-k	1.2 g-m
DK Sensei	3489 a-c	21.7 b-e	33 j-m	16.7 g-k	1.0 h-m
DK Severnyi	4114 a	8.3 g-i	30 k-m	20.0 f-k	0.9 i-m
DKW41-10	2379 h-m	6.7 hi	63 b-i	43.3 c-f	1.9 d-i
DKW44-10	2717 d-l	5.0 i	90 ab	80.0 a	3.3 ab
DKW45-25	2063 k-o	18.3 c-g	73 a-f	50.0 cd	2.5 b-e
DKW46-15	2482 f-m	11.7 e-iv	93 a	76.7 ab	3.6 a
DKW47-15	1722 no	18.3 c-g	53 d-k	26.7 d-k	1.3 f-m
Rubisco Seeds LLC					
Edimax CL	2898 b-i	28.3 a-c	33 j-m	10.0 i-k	0.7 k-m
Hornet	2689 d-l	13.3 d-i	60 c-j	26.7 d-k	1.4 f-l
Inspiration	3161 b-f	18.3 c-g	40 h-m	6.7 jk	0.7 k-m
Mercedes	2720 d-l	18.3 c-g	53 d-k	13.3 h-k	1.0 h-m
5100000	_,_,	. J. J. J	55 G K	10.0 11 10	

Table 29. Results for the 2016 Blackleg (*Leptosphaeria maculans*) Trial at Perkins, OK. National Winter Canola Variety Trial

J.P. Damicone, T.J. Pierson, J.J. Lofton, and W.E. Vaughan, Oklahoma State University M.J. Stamm, Kansas State University

	Yield ¹	Aster yellows ²	Blackleg incidence ³	Blackleg incidence ⁴	Blackleg severity ⁵
Entry	(lb/a)	(%)	(%)	(≥ 3%)	(0-5)
Star Specialty Seed, Inc.					
Star 915W	2175 j-o	21.7 b-e	77 a-e	40.0 c-g	2.0 d-h
Virginia State University					
Virginia	2040 k-o	20.0 b-f	40 h-m	13.3 h-k	0.9 h-m
VSX-3	2409 g-m	15.0 d-i	37 i-m	16.7 g-k	0.9 j-m
VSX-4	2519 f-m	13.3 d-i	43 g-m	10.0 i-k	0.9 h-m
[®] P>F	<0.01	<0.01	<0.01	<0.01	<0.01
CV	15.4	45.1	30.3	57.7	43.9

¹Values in a column followed by the same letter are not statistically different at P=0.05 according to t-tests produced by the Lines option of SAS Proc GLIMMIX.

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²Percentage of plants with aster yellows.

³Percentage of plants with blackleg cankers.

⁴Percentage of plants with severe blackleg cankers (severity rating of ≥3).

 $^{^{5}}$ Internal stem decay from blackleg on a 0 to 5 scale where 0 = no disease, 1 = 25% of the stem with decay, 2 = 50% of the stem with decay, 3 = 75% of the stem with decay, 4 = 100% of the stem with decay, 5 = dead plant.

⁶Probability of a significant entry effect in SAS Proc GLIMMIX.

Table 30. Seed sources for entries in the 2015-2016 National Winter Canola Variety Trial

		_	Release	_			_	Release	
Source	Type ¹	Trait ²	date	Maturity ³	Source	Type ¹	Trait ²	date	Maturity
CROPLAN by WinF	ield				KWS MOMONT				
Paul Gregor (psgreg		akes com)			Thierry Momont	(tmomont@	momont com)	
r dar ereger (pegreg	01 @1011001	anoo.oom,			Photosyntech	(anomonie	goo	,	
HyCLASS 115W	OP	RR/SURT	2008	Е	Bob Amstrup (bo	h ametrun	@nhotosyntec	h com)	
HyCLASS 125W	OP	RR/SURT	2010	M	Dob Amstrup (bo	b.amstrupt	<u>w</u> priotosyrico	11.00111)	
HyCLASS 220W	OP	RR	2014	ME	Hekip	Hyb		2014	ME
HyCLASS 225W	OP	RR/SURT	2014	M	Helix	Hyb		2015	F
TIYOLAGG ZZGVV	OF	KK/30K1	2014	IVI	Kadore	OP		2015	, F
DL Seeds Inc.									E
	بالمممد ماني	ım@dlaaada d	· •)		MH 11J41	Hyb			
Kevin McCallum (ke	vin.mccaiit	ım@aiseeas.c	a)		MH 12AC17	Hyb			M
DI 44004DD	11.4	DD		-	MH 12AQ37	Hyb			М
DL14001RR	Hyb	RR		F	MH 12AX37	Hyb			F
Einstein	Hyb			M	MH 12AY27	Hyb			M
Popular	Hyb			ME	Quartz	OP		2015	M
Reflex CL	Hyb	CL		М					
Thure	Hyb	SD		M	Monsanto / DEK				
WRH 458	Hyb	CL		ME	Chris Anderson (christophe	r.i.anderson@	monsanto	.com)
DuPont Pioneer					DK Imiron CL	Hyb	SD/CL		М
Daniel Berning (dan	harning@	nioneer com)			DK Imistar CL	Hyb	CL		M
Daniel Deming (dan	.berriirig@	piorieer.com)			DK Illistal CL	Hyb	SD		M
46W94	Hyb	RR	2011	М	DK Severnyi	Hyb	SD		M
	•					OP			E
Exp 1302	Hyb			M	DKW41-10		RR	2008	ME
PX112	Hyb	SD		M	DKW44-10	OP	RR RR/SURT	2009	
Himb Dising Coop D		4			DKW45-25	OP OP		2013	M
High Plains Crop D Charlie Rife (charlie					DKW46-15 DKW47-15	OP OP	RR/SURT RR/SURT	2008 2008	M M
	0 3 1 -	,					111000111	2000	
Claremore	OP	IMI	2011	F	Rubisco Seeds				
l laireannitae af lalalan					Claire Caldbeck	(info@rubi	scoseeds.com)	
University of Idaho Jack Brown (jbrown)		du)			Edimax CL	Hyb	CL	2012	М
Sask Brown (Jorown)		/			Hornet	Hyb		2008	M
15 HLWC 1	ΩP			ME		,			M
13.01.000.1	OP								M
15.UI.WC.1	OP OP	 SU		MF F	Inspiration Mercedes	Hyb Hyb		2014 2014	
15.UI.WC.05633 Kansas State University Michael J. Stamm (r	ersity Can	_	Program		Star Specialty S		tmail.com)		
Kansas State Univ o Michael J. Stamm (r	ersity Can njstamm@	_	Program		Jim Johnson (jim	j_star@ho	•		
Kansas State University Michael J. Stamm (r	ersity Can njstamm@ OP	ksu.edu)		М			tmail.com) RR/SURT	2014	M
Kansas State University Michael J. Stamm (r	ersity Can njstamm@	_	Program 2013		Jim Johnson (jim	j_star@ho	•	2014	M
Kansas State University Michael J. Stamm (r KS4506 KSR07363	ersity Can njstamm@ OP	ksu.edu)		M	Jim Johnson (jim	j_star@ho OP	RR/SURT		
Kansas State University Michael J. Stamm (r KS4506 KSR07363 KSUR1211	ersity Can njstamm@ OP OP	ksu.edu) RR	 2013	M ME F	Jim Johnson (jim Star 915W	j_star@ho OP niversity A	RR/SURT		
Kansas State University Michael J. Stamm (r KS4506 KSR07363 KSUR1211 Riley	orsity Can njstamm@ OP OP OP OP	ksu.edu) RR SU	2013 2010	M ME F M	Jim Johnson (jim Star 915W Virginia State U	j_star@ho OP niversity A	RR/SURT		
Kansas State University Michael J. Stamm (r KS4506 KSR07363 KSUR1211 Riley Sumner	ersity Can njstamm@ OP OP OP	ksu.edu) RR SU	2013 2010 2003	M ME F	Jim Johnson (jim Star 915W Virginia State U Harbans Bhardw	j_star@ho OP niversity A	RR/SURT		
Kansas State University Michael J. Stamm (r KS4506 KSR07363	orsity Can njstamm@ OP OP OP OP OP	ksu.edu) RR SU SU	2013 2010	M ME F M ME	Jim Johnson (jim Star 915W Virginia State U	j_star@ho OP niversity A aj (hbhard	RR/SURT Agricultural E wj@vsu.edu)	xperimen	t Station

¹ OP = open-pollinated, Hyb = hybrid

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

³E = Early; ME = Medium/Early; M = Medium; MF = Medium/Full; F = Full

Senior Authors

Michael Stamm, Scott Dooley, and Jane Lingenfelser

Department of Agronomy, Kansas State University, Manhattan

Other Contributors

Sangu Angadi and Sultan Begna, New Mexico State University, Clovis

Brian Baldwin and Jesse Morrison, Mississippi State University, Starkville

Tracy Beedy, Oklahoma State University, Goodwell

Jourdan Bell, Texas AgriLife Research and Extension Service, Amarillo

Abdel Berrada, Colorado State University, Yellow Jacket

Harbans Bhardwaj, Virginia State University, Petersburg

Matthew Blair, Tennessee State University, Nashville

Jack Brown, Jim Davis, and Megan Wingerson, University of Idaho, Moscow

Joshua Bushong, Oklahoma State University, Stillwater

Brian Caldbeck, Caldbeck Consulting, Philpot, Kentucky

Claire Caldbeck, Rubisco Seeds, Philpot, Kentucky

Ernst Cebert, Alabama A&M University, Normal

Gary Cramer, Kansas State University, Wichita

John Damicone and Tyler Pierson, Oklahoma State University, Stillwater

Heather Darby and Sara Ziegler, University of Vermont, St. Albans

Jason de Koff, Tennessee State University, Nashville

Dennis Delaney, Auburn University, Auburn, Alabama

Paul DeLaune, Texas AgriLife Research Service, Vernon

Eric Eriksmoen, North Dakota State University, Minot

Andrew Esser, Kansas State University, Belleville

John Gassett, Mitch Gilmer, H. Jordan, and Gary Ware, University of Georgia, Griffin Todd Higgins, Lincoln University, Jefferson City, Missouri

Johnathon Holman and Scott Maxwell, Kansas State University, Garden City

Kimberly Hunter, USDA-ARS, Temple, Texas

Jerry Johnson and Edward Asfeld, Colorado State University, Ft. Collins

Paul Lange, Conway Springs, Kansas

Kevin Larson, Colorado State University, Walsh

Josh Lofton, Oklahoma State University, Stillwater

Charles Mansfield, Purdue University, Vincennes

Perry Miller, Montana State University, Bozeman

Lloyd Murdock and John James, University of Kentucky, Lexington

Clark Neely and Daniel Hathcoat, Texas A&M University, College Station

Calvin Pearson, Colorado State University, Fruita

Charlie Rife, High Plains Crop Development, Torrington, Wyoming

Brett Rushing, Mississippi State University, Newton

Dipak Santra, University of Nebraska-Lincoln, Scottsbluff

Bob Schrock, Kiowa, Kansas

Peter Sexton, South Dakota State University, Brookings

Tyler Thomas, Fly Over States Ag Research, Troy, Kansas

Wade Thomason and Steve Gulick, Virginia Tech University, Blacksburg

Calvin Trostle, Texas AgriLife Extension Service, Lubbock

Dennis West, University of Tennessee, Knoxville

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